

TECHNICAL MANUAL

**AVIATION UNIT AND INTERMEDIATE
MAINTENANCE MANUAL**

**ARMY MODEL
AH-1P (PROD)
AH-1E (ECAS)
AH-1F (MODERNIZED COBRA)
HELICOPTERS**

"Approved for public release; distribution is unlimited."

**HEADQUARTERS, DEPARTMENT OF THE ARMY
8 MAY 1980**

CHANGE

NO. 19

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 30 April 1996

Aviation Unit and Intermediate
Maintenance Manual

ARMY MODEL
AH-1P (PROD)
AH-1E (ECAS)
AH-1F (MODERNIZED COBRA)
HELICOPTERS

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TM 55-1520-236-23-3, 8 May 1980, is changed as follows:

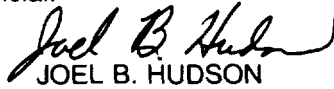
3. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages	Insert pages
i and ii	i and ii
v and vi	v and vi
xix and xx	xix and xx
D-1 and D-2	D-1 and D-2
D-7 through D-9/(D-10 blank)	D-7 through D-9/(D-10 blank)
D-149 and D-150	D-149 and D-150
- - - -	D-345/(D-346 blank)
E-1 through E-6	E-1 through E-6

4. Retain this sheet in front of manual for reference purposes.

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JOEL B. HUDSON
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DENNIS J. REIMER
General, United States Army
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URGENT

TM 55-1520-236-23-3
C 18

CHANGE

NO. 18

HEADQUARTERS
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WASHINGTON, D.C., 31 October 1995

Aviation Unit and Intermediate Maintenance Manual

ARMY MODEL
AH-1P (PROD)
AH-1E (ECAS)
AH-1F (MODERNIZED COBRA)
HELICOPTERS

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1. The Banner Page instructions for change 16 were to remove and insert page D-135 and D-136, should have read, remove and insert page D-335 and D-336.
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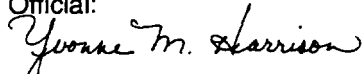
Remove pages	Insert pages
i through vi	i through vi
vi.1/(vi.2 blank)	vi.1 and vi.2
vii and viii	vii and viii
viii.1/(viii.2 blank)	viii.1/(viii.2 blank)
ix and x	ix and x
x.1/(x.2 blank)	x.1/(x.2 blank)
xi and xii	xi and xii
-----	xii.1/(xii.2 blank)
xvii and xviii	xvii and xviii
xviii.1/(xviii.2 blank)	xviii.1 and xviii.2
xix through xxi/(xxii blank)	xix through xxii
D-15 and D-16	D-15 and D-16

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U R G E N T

TM 55-1520-236-23-3
C 17

CHANGE

NO. 17

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., 16 NOVEMBER 1994

Aviation Unit and Intermediate
Maintenance Manual

ARMY MODEL
AH-1P (PROD)
AH-1E (ECAS)
AH-1F (MODERNIZED COBRA)
HELICOPTERS

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Remove pages

D-7 and D-8
D-15 and D-16
D-343/(D-344 blank)
Index 9 and Index 10
Index 13 through Index 16
Index 19 and Index 20
Index 31 and Index 32
Index 35 and Index 36

Insert pages

D-7 and D-8
D-15 and D-16
D-343 and D-344
Index 9 and Index 10
Index 13 through Index 16
Index 19 and Index 20
Index 31 and Index 32
index 35 and Index 36

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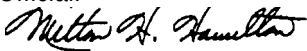
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U R G E N T

TM 55-1520-236-23-3
C 17

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WASHINGTON, D.C., 31 AUGUST 1994

AVIATION UNIT AND INTERMEDIATE
MAINTENANCE MANUAL

ARMY MODEL
AH-1P (PROD)
AH-1E (ECAS)
AH-1F (MODERNIZED COBRA) HELICOPTERS

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Remove pages

xv and xvi

xvi.1/(xvi.2 blank)

xviii.1/(xviii.2 blank)

D-1 and D-2

D-5 and D-6

D-169 and D-170

D-135 and D-136

E-1 through E-6

F-1 through F-3/(F-4 blank)

F-19 through F-22

F-25 and F-26

F-31 through F-34

F-37 through F-40

F-103 and F-104

F-237 and F-238

F-241 and F-242

Insert pages

xv and xvi

xvi.1/(xvi.2 blank)

xviii.1/(xviii.2 blank)

D-1 and D-2

D-5 and D-6

D-169 and D-170

D-135 and D-136

D-341 through D-343/(D-344 blank)

E-1 through E-6

F-1 through F-3/(F-4 blank)

F-19 through F-22

F-25 and F-26

F-31 through F-34

F-37 through F-40

F-103/(F-104 blank)

F-237 and F-238

F-241 and F-242

Remove pages

F-253 and F-254
 F-361 and F-362
 F-366.1/(F-366.2 blank)

 F-425/(F-426 blank)
 F-431 through F-433/(F-434 blank)
 F-459 and F-460
 G-1 and G-2
 G-2.1/(G-2.2 blank)
 G-66.1/(G-66.2 blank)
 G-141 through G-144
 G-155 and G-156
 G-209 through G-212
 Index 1 and Index 2

 Index 5 and Index 6
 Index 19 through Index 22

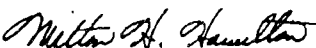
Insert pages

F-253 and F-254
 F-361 and F-362
 (F-366.1 blank)/F-366.2
 F-366.3 and F-366.4
 F-424.1 through F-424.5/(F-424.6 blank)
 F-425/(F-426 blank)
 F-431 through F-433/(F-434 blank)
 F-459 and F-460
 G-1 and G-2
 G-2.1/(G-2.2 blank)
 G-66.1/(G-66.2 blank)
 G-141 through G-144
 G-155 and G-156
 G-209 through G-212
 Index 1 and Index 2
 Index 2.1/(Index 2.2 blank)
 Index 5 and Index 6
 Index 19 through Index 22

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CHANGE

NO. 15

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DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 30 June 1993

Aviation Unit and Intermediate Maintenance Manual

ARMY MODEL AH-1P (PROD), AH-1E (ECAS)
AH-1F (MODERNIZED COBRA) HELICOPTERS

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Remove pages	Insert pages
✓ D-3 through D-6	D-3 through D-6
✓ D-55 and D-56	D-55 and D-56
✓ D-163 and D-164	D-163 and D-164
✓ D-169 and D-170	D-169 and D-170
✓ D-173 and D-174	D-173 and D-174
✓ D-326.1/(D-326.2 blank)	D-326.1/(D-326.2 blank)
✓ D-339/(D-340 blank)	D-339 and D-340
✓ E-13/(E-14 blank)	E-13/(E-14 blank)
✓ F-159 and E-160	F-159 and E-160
✓ F-341 and F-342	F-341 and F-342

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Official:

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MILTON H. HAMILTON
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NO. 14 }

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WASHINGTON, D.C., 31 March 1992

Aviation Unit and Intermediate
Maintenance Manual

ARMY MODEL AH-1P (PROD), AH-1E (ECAS)
AH-1F (MODERNIZED COBRA) HELICOPTERS

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Remove pages

D-1 and D-2
- - - -
G-1 and G-2
G-107 and G-108

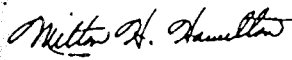
Insert pages

D-1 and D-2
D-339/D-340
G-1 and G-2
G-107 and G-108

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NO. 13 }

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WASHINGTON, D.C., 21 March 1991

Aviation Unit and Intermediate
Maintenance Manual

ARMY MODEL AH-1P (PROD), AH-1E (ECAS)
AH-1F (MODERNIZED COBRA) HELICOPTERS

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1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages

b.1/b.2
Introductory page
i through vi
- - - -
vii and viii
- - - -
ix and x
- - - -
xi through xvi
xvi.1/xvi.2
- - - -
xix through xxii
D-1 through D-8
D-15 and D-16
D-25 and D-26
D-41 and D-42
- - - -
D-73 and D-74
D-93 and D-94
D-109 and D-110
- - - -
D-113 through D-116
D-125 and D-126
D-129 and D-130
D-130.1/D-130.2
D-135 and D-136
D-145 through D-148
D-163 and D-164
D-169 and D-170
- - - -
D-175 and D-176
D-203 and D-204
D-209 and D-210
D-223 and D-224
D-265 and D-266
D-273 through D-276

Insert pages

b.1/b.2
Introductory page
i through vi
vi.1/vi.2
vii and viii
viii.1/viii.2
ix and x
x.1/x.2
xi through xvi
xvi.1/xvi.2
xviii.1/xviii.2
xix through xxii
D-1 through D-8
D-15 and D-16
D-25 and D-26
D-41 and D-42
D-70.1/D-70.2
D-73 and D-74
D-93 and D-94
D-109 and D-110
D-110.1/D-110.2
D-113 through D-116
D-125 and D-126
D-129 and D-130
D-130.1/D-130.2
D-135 and D-136
D-145 through D-148
D-163 and D-164
D-169 and D-170
D-170.1/D-170.2
D-175 and D-176
D-203 and D-204
D-209 and D-210
D-223 and D-224
D-265 and D-266
D-273 through D-276

Remove pages

D-279 through D-284
 D-287 and D-288
 D-291 and D-292
 D-315 and D-316
 - - - -
 D-333 and D-334
 E-11 and E-12
 F-1 through F-3/F-4
 F-11 and F-12
 - - - -
 F-13 and F-14
 F-19 through F-28
 F-31 through F-40
 F-42.1/F-42.2
 F-103/F-104
 F-159 and F-160
 F-237 and F-238
 F-241 and F-242
 F-253 and F-254
 - - - -
 F-389 and F-390
 F-407 and F-408
 F-425/F-426
 F-431 through F-433/F-434
 F-459 and F-460
 F-465 and F-466
 G-1 and G-2
 G-2.1/G-2.2
 G-57 through G-60
 G-65 and G-66
 - - - -
 G-123 through G-126
 G-141 through G-148
 G-151 and G-152
 G-155 and G-156
 - - - -
 G-209 through G-212
 G-251 and G-252
 G-263 and G-264
 Index 5 and Index 6
 Index 13 and Index 14
 Index 27 and Index 28
 Index 30.1 and Index 30.2
 Index 31 through Index 34
 Cover

Insert pages

D-279 through D-284
 D-287 and D-288
 D-291 and D-292
 D-315 and D-316
 D-326.1/D-326.2
 D-333 and D-338
 E-11 and E-12
 F-1 through F-3/F-4
 F-11 and F-12
 F-12.1/F-12.2
 F-13 and F-14
 F-19 through F-28
 F-31 through F-40
 F-42.1/F-42.2
 F-103 and F-104
 F-159 and F-160
 F-237 and F-238
 F-241 and F-242
 F-253 and F-254
 F-366.1/F-366.2
 F-389 and F-390
 F-407 and F-408
 F-425/F-426
 F-431 through F-433/F-434
 F-459 and F-460
 F-465 and F-466
 G-1 and G-2
 G-2.1/G-2.2
 G-57 through G-60
 G-65 and G-66
 G-66.1/G-66.2
 G-123 through G-126
 G-141 through G-148
 G-151 and G-152
 G-155 and G-156
 G-156.1/G-156.2
 G-209 through G-212
 G-251 and G-252
 G-263 and G-264
 Index 5 and Index 6
 Index 13 and Index 14
 Index 27 and Index 28
 Index 30.1 and Index 30.2
 Index 31 through Index 34
 Cover

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CHANGE

NO. 12

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DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 16 July 1990

Aviation Unit and Intermediate
Maintenance Manual

ARMY MODEL
AH-1P (PROD)
AH-1E (ECAS)
AH-1F (MODERNIZED COBRA)
HELICOPTERS

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Remove pages

a and b

- - - -

Introductory page

xv and xvi

- - - -

xix and xx

F-1 and F-2

F-3/F-4

F-41 and F-42

- - - -

- - - -

G-1 and G-2

G-2.1/G-2.2

G-53 and G-54

G-61 and G-62

G-79 and G-80

G-81 and G-82

G-91 and G-92

- - - -

G-95 through G-98

G-101 through G-112

G-117 through G-126

- - - -

G-139 and G-140

G-140.1/G-140.2

G-353/G-354

- - - -

- - - -

- - - -

- - - -

Index 17 and Index 18

Index 55 and Index 56

Insert pages

a and b

b.1/b.2

Introductory page

xv and xvi

xvi.1/xvi.2

xix and xx

F-1 and F-2

F-3/F-4

F-41 and F-42

F-42.1/F-42.2

F-469 through F-472

G-1 and G-2

G-2.1/G-2.2

G-53 and G-54

G-61 and G-62

G-79 and G-80

G-81 and G-82

G-91 and G-92

G-92.1/G-92.2

G-95 through G-98

G-101 through G-112

G-117 through G-126

G-126.1/G-126.2

G-139 and G-140

G-140.1 through G-140.8

G-353 and G-354

G-354.1/G-354.2

G-355 through G-362

G-362.1/G-362.2

G-363/G-364

Index 17 and Index 18

Index 55 and Index 56

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CHANGE

No. 11

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WASHINGTON, D.C., 11 February 1989

Aviation Unit and Intermediate
Maintenance ManualARMY MODEL
AH-1P (PROD)
AH-1E (ECAS)
AH-1F (MODERNIZED COBRA)
HELICOPTERS

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Remove pages

xi and xii
- - -
xix through xxi/xxii
D-1 and D-2
D-5 and D-6
D-9/D-10
D-15 and D-16
D-149 and D-150
- - -

Insert pages

xi and xii
xii.1/xii.2
xix through xxi/xxii
D-1 and D-2
D-5 and D-6
D-9/D-10
D-15 and D-16
D-149 and D-150
D-331 through D-334

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CARL E. VUONO
General, United States Army
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Official:

WILLIAM J. MEEHAN II
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The Adjutant General

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NO. 10 }

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 5 December 1988

Aviation Unit and Intermediate
Maintenance Manual

ARMY MODEL
AH-1P (PROD)
AH-1E (ECAS)
AH-1F (MODERNIZED COBRA)
HELICOPTERS

TM 55-1520-236-23-3, 8 May 1980, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages

c and d
- - -
D-1 through D-4
D-9/D-10
D-117 and D-118
D-323 and D-324
D-327/D-328
- - -
F-269 and F-270

Insert pages

c and d
d.1/d.2
D-1 through D-4
D-9/D-10
D-117 and D-118
D-323 and D-324
D-327 and D-328
D-329 and D-330
F-269 and F-270

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The Adjutant General

CARL E. VUONO,
General, United States Army
Chief of Staff

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CHANGE }
No. 9 }

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DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 20 September 1988

Aviation Unit and Intermediate
Maintenance Manual

ARMY MODEL
AH-1P (PROD)
AH-1E (ECAS)
AH-1F (MODERNIZED COBRA)
HELICOPTERS

TM 55-1520-236-23-3, 8 May 1980, is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages

iii through xxi/xxii
D-5 and D-6
D-37 and D-88
D-163 and D-164
D-167 through D-170
D-251 and D-252
F-1 through F-3/F-4
F-65/F-66

F-105/F-106

F-107 and F-108
G-103 and G-104
G-119 through G-122
G-167 through G-170
Index 3 and Index 4
Index 29 and Index 30

Insert pages

iii through xxii
D-5 and D-6
D-87 and D-88
D-163 and D-164
D-167 through D-170
D-251 and D-252
F-1 through F-3/F-4
F-65 and F-66
F-66.1 through F-66.3/F-66.4
F-105 and F-106
F-106.1 through F-106.4
F-107 and F-108
G-103 and G-104
G-119 through G-122
G-167 through G-170
Index and Index 4
Index 29 and Index 30
Index 30.1 and Index 30.2

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Official:

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General, United States Army
Chief of Staff

R. L. DILWORTH
Brigadier General, United States Army
The Adjutant General

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CHANGE }
NO. 8 }

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 8 December 1987

Aviation Unit and Intermediate
Maintenance Manual

ARMY MODEL
AH-1P (PROD)
AH-1E (ECAS)
AH-1F (MODERNIZED COBRA)
HELICOPTERS

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DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 4 November 1986

Aviation Unit and Intermediate
Maintenance Manual

ARMY MODEL
AH-1S(PROD)
AH-1S(ECAS)
AH-1S(MODERNIZED COBRA)
HELICOPTERS

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Aviation Unit and Intermediate
Maintenance Manual

ARMY MODEL
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AH-1S(MODERNIZED COBRA)
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Maintenance Manual

ARMY MODEL
AH-1S(PROD)
AH-1S(ECAS)
AH-1S(MODERNIZED COBRA)
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Aviation Unit and Intermediate Maintenance Manual

ARMY MODEL
AH-1S(PROD)
AH-1S(ECAS)
AH-1S(MODERNIZED COBRA)
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Aviation Unit and Intermediate
Maintenance Manual

ARMY MODELS
AH-1S (PROD)
AH-1S (ECAS)
AH-1S (MODERNIZED COBRA)
HELICOPTERS

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**Aviation Unit and Intermediate
Maintenance Manual**

**ARMY MODEL
AH-1S (PROD)
AH-1S (ECAS)
AH-1S (MODERNIZED COBRA)
HELICOPTERS**

TM 55-1520-236-23-3, 8 May 1980, is changed as follows:

NOTICE

When the following list of changes on TM 55-1520-236-23-Series manuals are received and incorporated into manuals they will supersede the TM 55-1520-239-23-Series manuals.

**TM 55-1520-236-23-1, Changes 1 through 13
TM 55-1520-236-23-2, Changes 1 through 3
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CHANGE

NO. 1

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WASHINGTON, D.C., 22 September 1982

Aviation Unit and Intermediate
Maintenance Manual

ARMY MODEL
AH-1S(PROD)
AH-1S(ECAS)
AH-1S(MODERNIZED COBRA)
HELICOPTERS

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The Adjutant General

DISTRIBUTION:

To be distributed in accordance with DA Form 12-31, Organizational Maintenance Requirements for AH-1S(PROD) aircraft.

WARNING

Personnel performing operations, procedures, and practices which are included or implied in this technical manual shall observe the following warnings. Disregard of these warnings and precautionary information can cause serious injury, or death.

Warnings, cautions, and notes are used to emphasize important and critical instructions and shall be used for the following conditions:

WARNING

An operating procedure, practice, etc., which, if not correctly followed, could result in personal injury or loss of life.

CAUTION

An operating procedure, practice, etc., which if not strictly observed, could result in damage to or destruction of equipment.

NOTE

An operating procedure, condition, etc., which it is essential to highlight.

STARTING ENGINE

Starting and Operation
of the helicopter will be performed only by
authorized personnel in accordance with AR 95-1.

HIGH VOLTAGE

The helicopter should be electrically grounded when parked.
Turn off all power switches before making electrical connections or disconnections.
Serious burns and electrical shock can result from contact
with exposed electrical wires or connectors.

RADIATION HAZARD

Self-luminous dials contain radioactive materials.
If such an instrument is broken or becomes unsealed, avoid personal contact.
Use forceps or gloves made of rubber or polyethylene to pick up contaminated material.
Place material and gloves in a plastic bag.
Seal bag and dispose of it as radioactive waste
in accordance with AR 755-15 and TM 3-261 (TB 43-0108).
Repair procedures shall conform to requirements in AR 700-52.

RADIATION HAZARD**Thorium Fluoride**

Some of the FLIR optics inside the C-NITE telescopic sight unit (TSU) have a coating that is slightly radioactive.

Accidental inhaling or swallowing of this material is hazardous to health.

If the C-NITE TSU has been ruptured (by crash damage, etc.), dispose of broken optics in accordance with AR 385-11 and TB 750-237.

DANGEROUS CHEMICALS

Exposure to high concentrations of fire extinguishing agents can cause severe irritation of eyes and nose.

Corrosive Battery Electrolyte (Potassium Hydroxide). Wear rubber gloves, apron, and face shield when handling leaking batteries. If potassium hydroxide is spilled on clothing, or other material, wash immediately with clean water. If spilled on personnel, immediately start flushing the affected area with clean water. Continue washing until medical assistance arrives.

Use solvents or chemicals in a well ventilated area.
Do not inhale vapors or allow to come in contact with skin or eyes
Observe proper fire prevention rules.

LASER LIGHT

The laser beam is dangerous and can cause blindness if it enters the eye either directly or reflected from a shiny surface. Crewmen shall wear approved laser protective visors whenever in controlled area when laser rangefinder or laser target designators are being used. Laser shall be used only in controlled areas by qualified personnel.

NOISE LEVEL

Sound pressure levels in the helicopter during some operating conditions exceed the Surgeon General's hearing conservation criteria as defined in TB MED 251.

Hearing, protection devices, such as the aviator helmet or ear plugs, are required to be worn by all personnel in and around the helicopter during its operation.

ASBESTOS FIBERS

Avoid creating dust. Breathing asbestos dust may cause serious bodily harm.

ARMAMENT

When working on, or near an armed helicopter, take all possible precautions to avoid accidental firing of armament.
Personnel shall not occupy possible firing pattern in front of or up to 20 feet behind rocket pods.
Munitions shall be handled by authorized personnel only.
All weapons shall be dry-fired.
Only dummy ammunition with smooth cases like live ammunition shall be used.

JETTISON

All ground safety pins must be removed before flight. Failure to do so will prevent emergency jettison of stores.

Jettison circuit may be activated with BAT switch OFF and pilot WING STORES JTSN circuit breaker OPEN. For positive deactivation of jettison circuit, open both the PLT JTSN circuit breaker and the GNR JTSN circuit breaker located in the aft electrical compartment. Serious injury can result from accidental ground jettison

SANDING DUST

Sanding on reinforced laminated glass produces fine dust that may cause skin irritations. Observe necessary protective measures.

TRANSMISSION LEVELING

Do not attempt to level transmission with "Jacks Only" Hoist must be used in conjunction with jacks while lifting transmission.

EXTERNAL STORES

Prior to any helicopter maintenance functions that require external stores be removed JETTISON cartridge shall be removed.

Remove jettison cartridges from pylon stores ejection device prior to placing helicopter in a hangar, to prevent injury to personnel and damage to equipment.

Exception: Removal is not necessary when helicopter is to be stored in hangar for short-term, providing both. PLT JTSN and GNR JETSJN circuit breakers in aft electrical compartment are OPEN, and warning signs indicate that helicopter has an armed jettison system.

CANOPY REMOVAL SYSTEM

Ground safety pins must be installed in pilot and gunner arming/firing handles of canopy removal system whenever the helicopter is on the ground. Pins should be installed by crew.

CLEANING HYDRAULIC COMPONENTS

The use of any alcohol in cleaning components which contact hydraulic fluids is prohibited. Formation of a polymeric residue can result, which could impair mechanical operation of the component.

HANDLING HYDRAULIC FLUID (MIL-H-83282)

When handling hydraulic fluid (MIL-H-83282), Table 1-3, Item 61, observe the following:

–Prolonged contact with liquid or mist can irritate eyes and skin.

–After any prolonged contact with skin, immediately wash contacted area with soap and water. If liquid contacts eyes, flush them immediately with clear water.

–If liquid is swallowed, do not induce vomiting; get immediate medical attention.

–Wear rubber gloves when handling liquid. If prolonged contact with mist is likely, wear an appropriate respirator.

–When fluid is decomposed by heating, toxic gases are released.

EPOXY BASED ADESIVE

Epoxy based adhesive, P/N EA934, contains an asbestos filler which could be inhaled or ingested during grinding, cutting, or sanding operations on cured epoxy material.

TOOLS

Use only chrome plated steel or unplated steel tools for disassembly or reassembly procedures described in this manual.

Use of cadmium or zinc plated tools is not permitted.

GROUNDING

All aircraft parked outside will be grounded and bonded, in accordance with FM 1-500, to the aerospace ground equipment while servicing, i.e., fueling or defueling, arming (ammunition or explosives), oxygen, hydraulic fluids or any flammable liquids. Grounding is not necessary for aircraft parked outside unless one of the above is being accomplished.

**INSPECTION OF REMOVED
COMPONENT**

When components are being removed from an aircraft, all inspections required by the next phase maintenance inspection must be accomplished prior to either immediate re-use or storage. Upon installation, the component will be inspected in accordance with the current phase (either that phase the receiving aircraft is in or if in between phase, the last phase performed). This will ensure that are-used component will not overfly any PM inspections, and that it will be properly interfaced with the receiving aircraft phase sequence.

TECHNICAL MANUAL

No. 55-1520-236-23-3

**HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 8 May 1980**

**Aviation Unit and Intermediate
Maintenance Manual**

**ARMY MODEL
AH-1P (PROD)
AH-1E (ECAS)
AH-1F (MODERNIZED COBRA)**

HELICOPTERS

NOTE

This manual is printed in five volumes, as follows:

TM 55-1520-236-23-1, consisting of Table of Contents, Preface Chapters 1 through 6.

TM 55-1520-236-23-2, consisting of Table of Contents, Chapters 7 through 17. Appendix A through C.

TM 55-1520-236-23-3, consisting of Table of Contents, Appendix D through G, and Index.

TM 55-1520-236-23-4, consisting of Table of Contents, FO-1 thru FO-142.

TM 55-1520-236-23-5, consisting of Table of Contents, FO-143 (Sheet 1 of 28 through Sheet 28 of 28) through FO-145.

The Preface, Appendices and Index are applicable to all volumes.

***This manual together with TM 55-1520-236-23-1, 8 May 1980, TM 55-1520-236-23-2, 8 May 1980, and TM 55-1520-236-23-4, 8 May 1980, and TM 55-1520-236-23-5, 31 July 1990, supersedes TM 55-1520-236-23-1, 30 June 1977 and TM 55-1520-236-23-2, 30 June 1977.**

TECHNICAL MANUAL

NO. 55-1520-238-23

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 8 May 1980AVIATION UNIT AND INTERMEDIATE MAINTENANCE MANUAL
ARMY MODELAH-1P (PROD)
AH-1E (ECAS)
AH-1F (MODERNIZED COBRA)
HELICOPTERS

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of away to improve these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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APPENDIX D

ILLUSTRATED FIELD MANUFACTURE ITEM LIST

This appendix Includes complete Instructions, Including bills of material, for field manufacturing of all Items listed In TM 55-1520-236-23P. Aviation Unit and Intermediate Maintenance Repair Parts and Special Tools List bearing MO or MF source code. The part number Index lists all Hems In part number order with a cross-reference to the figure In which the item appears. All materials necessary for manufacture of an Item are listed by National stock number, in the bill of material for the Item. All dimensions are in inches unless otherwise specified.

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209-061-801-33	D-214	209-072-641-1	D-225
209-061-803-131	D-214	209-072-642-1	D-226
209-061-803-133	D-214	209-072-643-1	D-227
209-063-531-1	D-186	209-072-644-1	D-228
209-063-532-1	D-186	209-072-645-1	D-229
209-063-533-1	D-186	209-072-647-1	D-230
209-063-536-1	D-215	209-072-648-1	D-231
209-070-119-1	D-96	209-072-649-1	D-232
209-070-161-1	D-97	209-072-650-1	D-233
209-070-161-3	D-97	209-072-651-1	D-234
209-070-432-5	D-99	209-072-652-1	D-235
209-070-450-1	D-186	209-072-655-1	D-236
209-070-478-1	D-100	209-072-656-1	D-237
209-070-487-1	D-186	209-072-657-1	D-238
209-070-492-11	D-101	209-072-658-1	D-239
209-070-497-1	D-186	209-072-660-1	D-240
209-070-525-1	D-186	209-072-664-1	D-241
209-070-540-1	D-103	209-072-665-1	D-242
209-070-543-1	D-186	209-072-666-1	D-243
209-070-574-1	D-104	209-072-671-1	D-244
209-070-588-1	D-186	209-072-675-1	D-245

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PART NUMBER	FIGURE NO.
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209-072-682-1	D-248
209-072-682-3	D-249
209-072-693-101	D-250
209-073-473-1	D-186
209-073-530-1	D-186
209-073-819-1	D-186
209-074-028-1	D-251
209-075-056-111	D-273
209-075-064-27	D-252
209-075-067-23	D-274
209-075-137-3	D-118
209-075-247-1	D-117
209-075-247-3	D-117
209-075-247-5	D-117
209-075-376-7	D-253
209-075-532-3	D-115
209-075-543-3	D-114
209-075-581-7	D-254
209-075-650-1	D-113
209-075-676-5	D-255
209-075-676-7	D-6
209-075-703-17	D-132
209-075-705-5	D-132
209-075-710-17	D-364
209-075-749-115	D-256
209-075-749-13	D-112
209-075-749-35	D-257
209-075-749-37	D-258
209-075-749-53	D-259
209-076-113-1	D-110
209-076-116-1	D-109
209-076-116-3	D-109
209-076-118-1	D-186
209-076-119-1	D-186
209-076-141-1	D-186
209-076-149-1	D-186
209-076-150-1	D-186
209-076-151-1	D-186
209-076-152-1	D-186
209-076-153-1	D-186
209-076-154-1	D-186
209-076-155-1	D-186
209-076-156-1	D-186
209-076-202-1	D-186
209-076-205-1	D-186
209-076-207-1	D-186
209-076-208-1	D-186
209-076-209-1	D-186
209-076-212-1	D-186

PART NUMBER	FIGURE NO.
209-076-213-1	D-186
209-076-214-7	D-186
209-076-215-1	D-186
209-076-216-1	D-186
209-076-219-1	D-186
209-076-220-1	D-186
209-076-221-1	D-186
209-076-232-1	D-186
209-076-234-1	D-186
209-076-235-1	D-186
209-076-237-1	D-186
209-076-238-1	D-186
209-076-241-1	D-186
209-076-242-1	D-186
209-076-243-1	D-186
209-076-244-1	D-186
209-076-245-1	D-186
209-076-246-1	D-186
209-076-247-1	D-186
209-076-248-1	D-186
209-076-256-1	D-186
209-076-256-1	D-186
209-076-264-1	D-186
209-076-265-1	D-186
209-076-267-1	D-186
209-076-269-1	D-186
209-076-270-1	D-186
209-076-271-1	D-186
209-076-274-1	D-186
209-076-278-1	D-186
209-076-279-1	D-186
209-076-298-1	D-186
209-076-299-1	D-186
209-076-302-1	D-186
209-076-303-1	D-186
209-076-304-1	D-186
209-076-305-1	D-186
209-076-306-1	D-186
209-076-307-1	D-186
209-076-308-1	D-186
209-076-316-1	D-186
209-076-317-1	D-186
209-076-364-1	D-186
209-076-366-1	D-186
209-076-368-1	D-186
209-076-370-1	D-186
209-076-371-1	D-186
209-076-381-1	D-186
209-076-394-1	D-186
209-076-396-1	D-186
209-076-397-1	D-186

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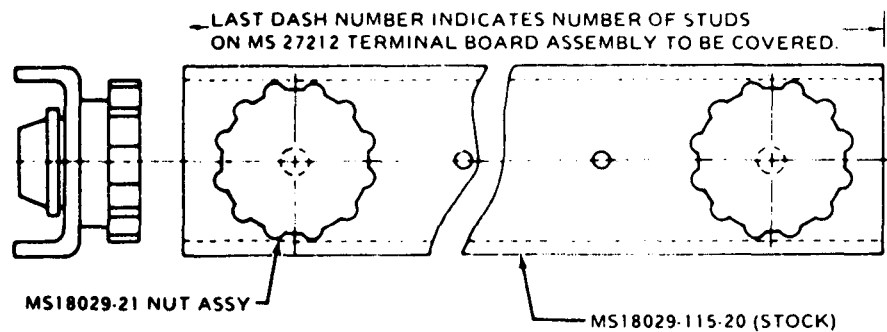
PART NUMBER	FIGURE No.
209-076-398-1	D-186
209-076-399-1	D-130
209-076-412-1	D-186
209-076-414-1	D-186
209-076-417-1	D-186
209-076-511-1	D-186
209-076-512-1	D-186
209-076-513-1	D-186
209-076-514-1	D-186
209-076-515-1	D-186
209-076-518-1	D-186
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209-076-522-1	D-186
209-076-523-1	D-186
209-076-525-1	D-186
209-076-526-1	D-186
209-076-527-1	D-186
209-076-528-1	D-186
209-076-529-2	D-186
209-076-530-1	D-186
209-076-531-1	D-186
209-076-532-1	D-186
209-076-533-1	D-186
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209-078-536-1	D-186
209-076-538-1	D-186
209076-541-1	D-186
209476-542-1	D-186
209-076-630-1	D-186
209-076-631-1	D-186
209-076-632-1	D-186
209-076-633-1	D-186
209-076-634-1	D-186
209-076-635-1	D-186
209-076-636-1	D-186
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209-076-645-1	D-186
209-076-646-1	D-186
209-076-647-1	D-186
209-076-648-1	D-186
209-076-649-1	D-186
209-076-650-1	D-186
209-076-651-1	D-186
209-076-652-1	D-186
209-076-653-1	D-186
209-076-654-1	D-186

PART NUMBER	FIGURE NO.
209-076-656-1	D-186
209-076-658-1	D-186
209-076-659-1	D-186
209-076-660-1	D-186
208-078-661-1	D-186
209-076-662-1	D-186
209-076-663-1	D-186
209-076-664-1	D-186
209-076-665-1	D-186
209-076-705-1	D-186
209-076-706-1	D-186
209-076-707-1	D-186
209-076-708-1	D-186
209-076-727-101	D-186
209-076-728-101	D-186
209-076-758-101	D-186
209-077-202-17	D-260
209-077-202-19	D-132
209-077-202-21	D-132
209-077-202-23	D-127
209-077-202-25	D-127
209-175-356-101	D-261
209-875-646-1	D-129
209-875-646-3	D-129
209-961-377-109	D-128.1
30-006-2-24	D-120
30-006-2-26	D-120
30-006-3-26	D-120
30-006-5-24	D-120
45D88	D-11
45D99	D-2
4720EG006-12-0200-043	D-178
511419-19	D-373
5120-AH1-001	D-348
540-011-179-1	D-121
540-011-195-1	D-128
60-003-1N12	D-175
60-003-1N13	D-175
60-003-1N16	D-175
60-003-1N18	D-175
60-003-1N9	D-175
60-003-3N14	D-175
60-003-4N40	D-175
60-003-5N-25	D-175
60-003-5N-31	D-175
60-003-5N48	D-175
601826	D-372
70-010F000D200	D-177
70-010F000F190	D-177
70-010F000X060	D-177

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70-010F000Y124	D-177
70-010F000Y196	D-177
70-010F180Z120	D-177
70-010F332F126	D-177
70-010H000T204	D-177
70-010H045W130	D-177
70-010K000A320	D-177
70-010K000A494	D-177
70-010K000V132	D-177
70-010L000A840	D-177
70-010L000V072	D-177
70-010L090B194	D-177
70-012F000A072	D-176
70-012F000A132	D-176
70-012F000A156	D-176
70-012F000A212	D-176
70-012F000A214	D-176
70-012F000A220	D-176
70-012F000A241	D-176
70-012F000T122	D-176
70-012F000V136	D-176
70-012F000V154	D-176
70-012F000V164	D-176
70-012F080W092	D-176
70-012G000A120	D-176
70-012G000A124	D-176
70-012G000V114	D-176
70-012H000A145	D-176
70-012H000A146	D-176
70-012H000A204	D-176
70-012H000C096	D-176
70-012H000T150	D-176
70-012H000T190	D-176
70-012H000V116	D-176
70-012H000V132	D-176
70-012H000V220	D-176
70-012H000V260	D-176
70-012J000A150	D-176
70-012W000V250	D-176
70-012H270W166	D-176
70-030F000X094	D-24
70-034Z000V174	D-45
70-034Z105W234	D-45

PART NUMBER	FIGURE NO.
81-1708-9	D-132
81-1882-1	D-262
85T4-0-9	D-139
85T4-11-1	D-139
85T4-1500-14	D-139
85T4-2-3	D-139
85T4-8-1	D-139
85T4-8-2	D-139
927358-1	D-263



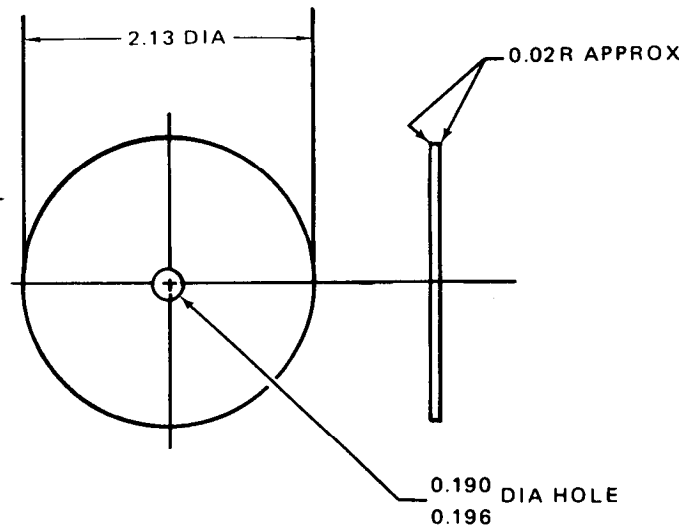
TERMINAL BOARD COVER

Part Number: MS18029-1S2
 MS18029-1S3
 MS18029-1S4
 MS18029-1S5
 MS18029-1S6
 MS18029-1S1
 MS18029-1S12
 MS18029-2S7
 MS18029-2S8
 MS18029-5S2

Fabricate from: NSN 5940-00-082-4642 MS18029-11S20 COVER
 NSN 5940-00-907-5939 MS18029-21 NUT ASSY

Material:

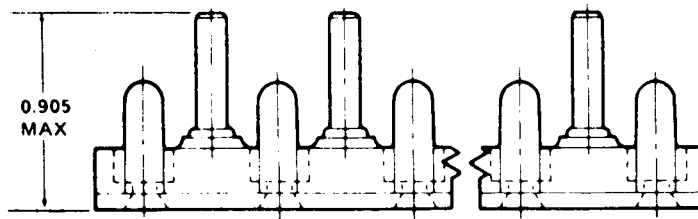
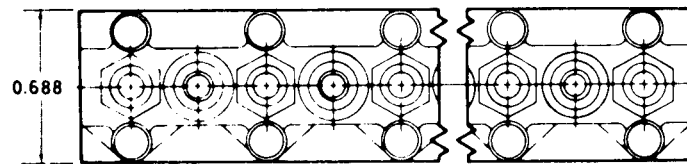
Figure D-1



NOTE:
REMOVE ALL BURRS
AND SHARP EDGES

Part Number: 45D99 PLATE 
Fabricate from: NSN 9535-00-232-7594
Material: Aluminum Alloy 5052-0,
Federal Specification QQ-A-318,
0.050 In. Thick, 2.5 In. Wide, 2.5 In. Long

Figure D-2



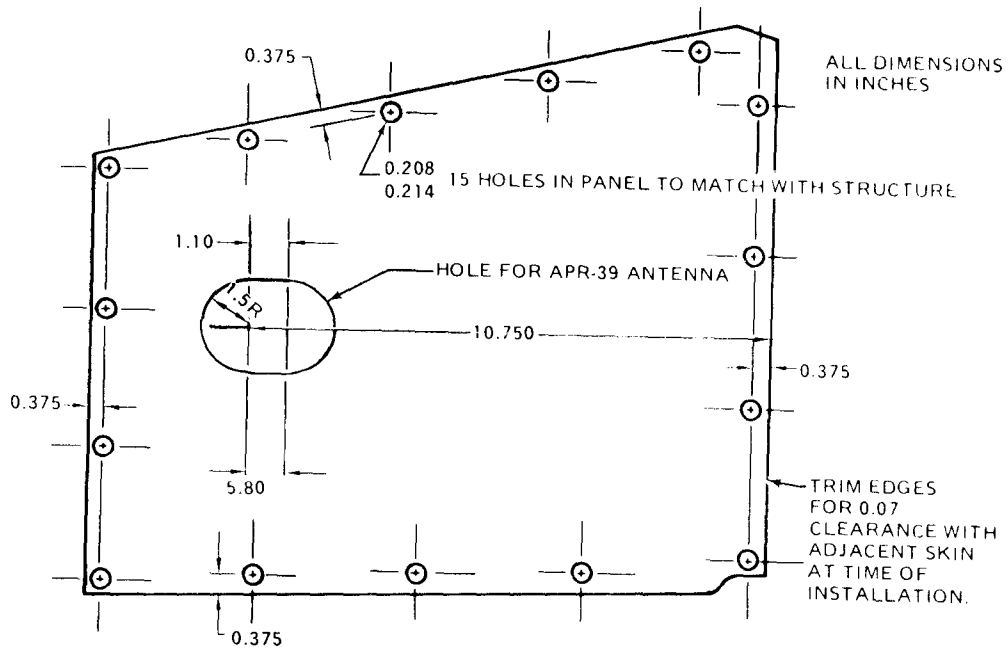
LAST DASH NUMBER INDICATES NUMBER OF 6-32 UNC-2A STUDS IN ASSEMBLY

Part Number: MS27212-1-2 thru -1-6, -1-8, -1-11, and -1-12 TERMINAL BOARD

Fabricate from: NSN 5940-00-950-1610

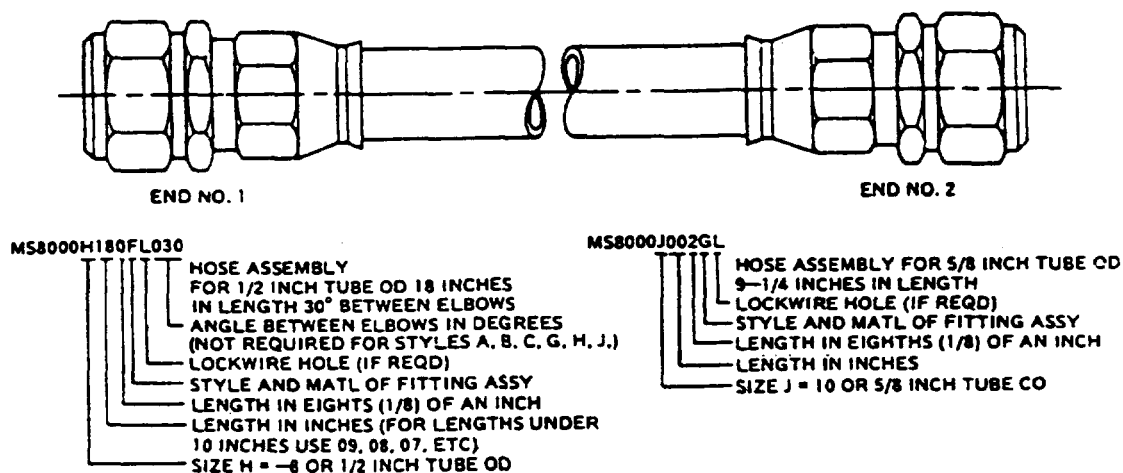
Material: MS27212-1-20 FMC 96906

FIGURE D-3.



Part Number: 209-033-005-29 PANEL, NOSE INSTALLATION
 Fabricate from: NSN9535-00-554-1417
 Material: Aluminum Alloy, 2024,
 Federal Specification QQ-A-250/5, T42,
 0.063 inch thick, 14.0 inch wide, 16.0 inch long

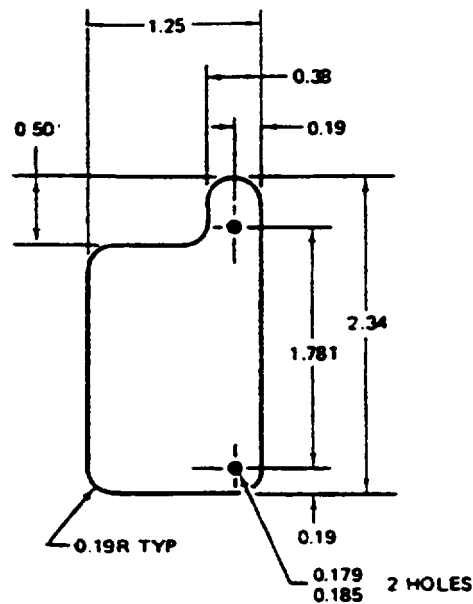
Figure D-4



HOSE ASSEMBLIES

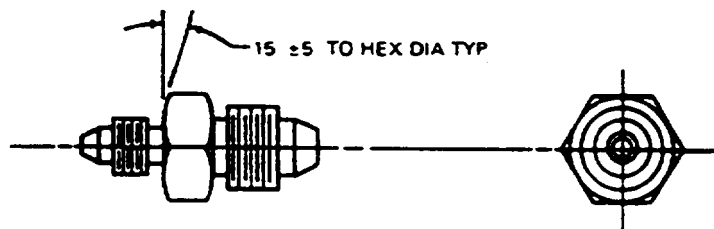
PART NUMBER	HOSE NSN	FITTING END NO. 1		FITTING END NO. 2	
		PART NO.	NSN	PART NO.	NSN
MS8000E100A	4720-00-857-1732	MS27053-4C	4730-00-889-2474	MS27060-4C	4730-00-013-6970
MS8000E160E270	4720-00-857-1732	MS27060-4C	4730-00-013-6970	MS27059-4C	4730-00-889-2465
MS8000E200A	4720-00-176-4649	MS27053-4C	4730-00-889-2474	MS27053-4C	4730-00-889-2474
MS8000E226E120	4720-00-857-1732	MS27059-4C	4730-00-889-2465	MS27060-4C	4730-00-013-6970
MS8000E304F345	4720-00-857-1732	MS27060-4C	4730-00-013-6970	MS27060-4C	4730-00-013-6970
MS8000E350E258	4720-00-857-1732	MS27060-4C	4730-00-013-6970	MS27059-4C	4730-00-889-2465
MS8000J107G	4720-00-857-1730	MS27053-10	4730-00-125-2640	MS27053-10	4730-00-125-2640
MS8000J190G	4720-00-857-1730	MS27053-10	4730-00-125-2640	MS27053-10	4730-00-125-2640
MS8000K324H	4720-00-857-1734	MS27053-12	4730-00-935-9382	MS27055-12	4730-00-935-9383
MS87028K072C	4720-00-555-3499	MS87018-12	4730-00-544-1957	MS87020-12	4730-00-238-5338
MS87028K200J043	4720-00-555-3499	MS87019-12	4730-00-618-7382	MS87020-12	4730-00-238-5338
MS87028K224D200	4720-00-555-3499	MS87019-12	4730-00-618-7382	MS87019-12	4730-00-618-7382
MS87028K082D180	4720-00-555-3499	MS87019-12	4730-00-618-7382	MS87019-12	4730-00-618-7382
MS87028E068A000					
MS8000E200A	4720-00-857-1732	MS27053-4C	4730-00-889-2724	MS27053-4C	4730-00-889-2724

Figure D-5



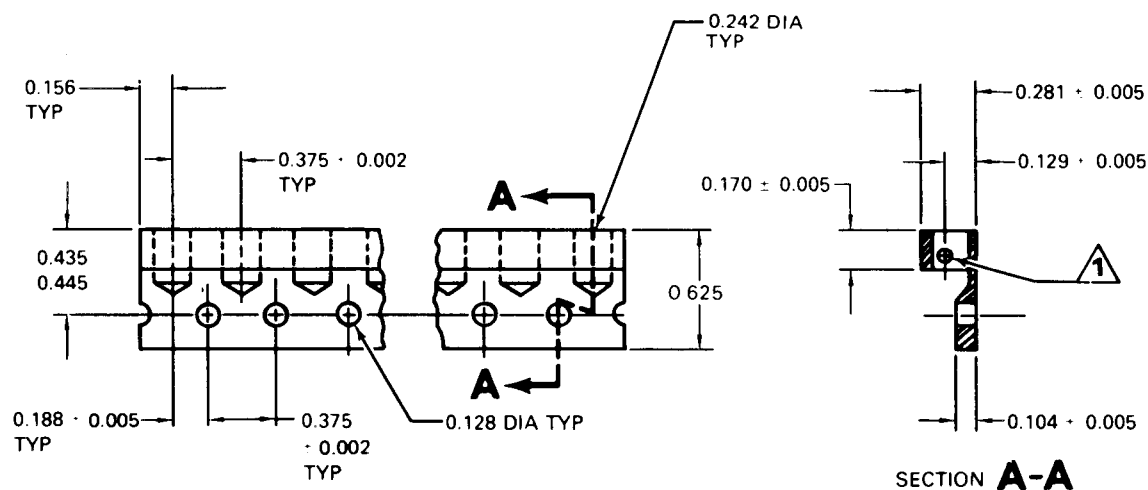
Part Number: 209-075-676-7 PLATE
Fabricate from: NSN 9535-00-167-2277
Material: Aluminum Alloy,
 Federal Specification QQ-A-250/5,
 0.020 in. thick, 1.8 in. wide, 2.8 in. long

Figure D-6



Part Number: 110-033-1 REDUCER
Fabricate from: NSN 4730-00-828-9974
Material: MS24399D2

Figure D-7.



NOTES:

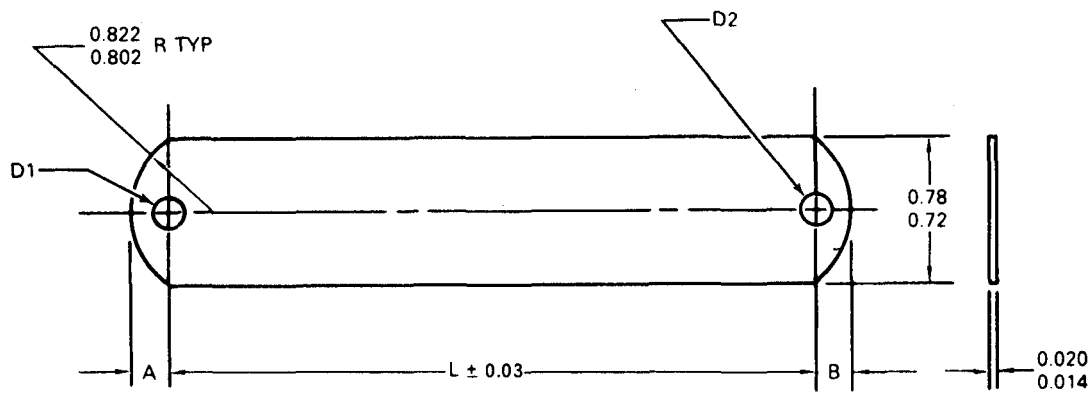


0.050 diameter stainless steel wire staked in place.

RECEPTACLE STRIP - PANEL

PART NO.	NO. HOLES	LENGTH	FABRICATE FROM NSN
110-045-6	6	2.562	5325-00-036-9305
110-045-7	7	2.562	5325-00-036-9305
110-045-10	10	4.062	5325-00-036-9305
110-045-12	12	4.437	5325-40-036-9305
110-045-13	13	5.187	5325-00-036-9305
110-045-18	18	6.831	5325-00-036-9305
110-045-19	19	7.062	5325-00-036-9305
110-045-20	20	7.812	5325-00-036-9305
110-045-23	23	8.562	5325-00-036-9305
110-045-29	29	10.812	5325-00-036-9305
110-045-30	30	11.187	5325-00-036-9305
110-045-32	32	11.937	5325-036-9305
110-045-64	64	23.937	5325-00-036-9305
110-045-65	65	24.312	5325-00-036-9305
110-045-94	94	35.187	5325-00-036-9305
110-045-95	95	35.562	5325-00-036-9305

Figure D-8



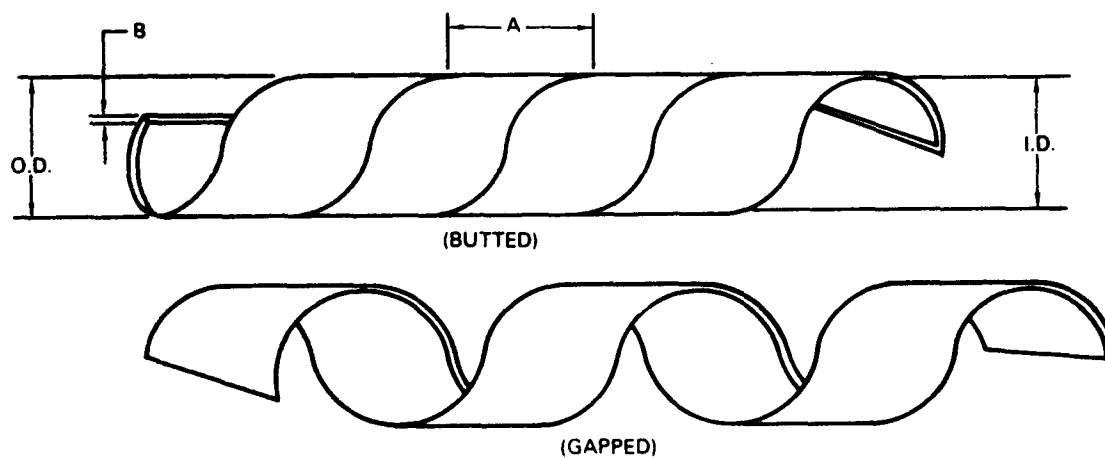
PART NO.	D1* DIA	D2* DIA	A .010	B .010	L .03
120-055-2-4	0.193	0.253	0.200	0.200	2.00
120-055-2-8	0.193	0.253	0.200	0.200	4.00
120-055-2-11	0.193	0.253	0.200	0.200	5.50
120-055-3-4	0.253	0.253	0.200	0.200	2.00

Part Number: (See Chart) BONDING STRIP

Fabricate from: NSN 9535-00-231-8199

Material: Annealed Copper, Federal Specification
QQ-C-576, 0.020 in thk, 0.80 in wide,
4.0 in long

Figure D-9



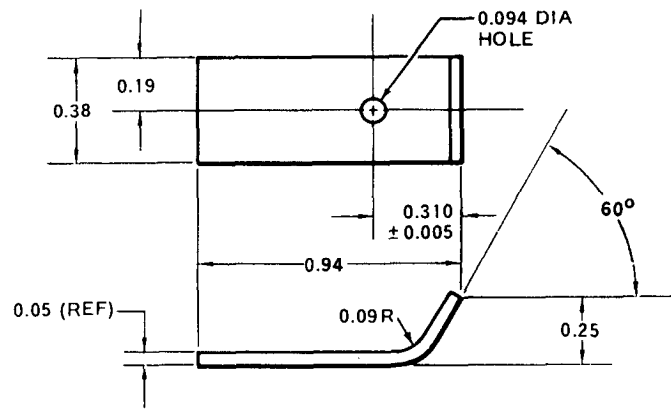
PART NO.	I.D.	O.D.	A $\pm .015$	B	LENGTH
120-067A4	0.204	0.250 $\pm .015$	0.375	0.023 $\pm .006$	4.0 in.
120-067B14	0.436	0.500 $\pm .020$	0.500	0.032 $\pm .010$	14.0 in.

Fabricate from: NSN 9300-00-891-9950
Material: Nylon, Natural or Black Color,
 No Military Specification

NOTE:

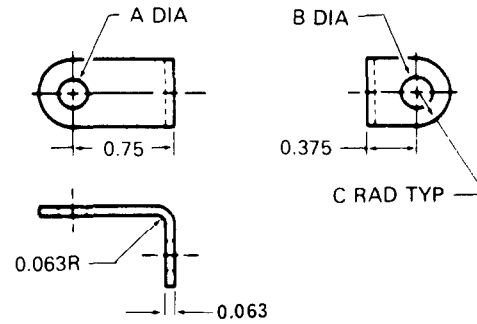
1. Part numbers 120-067A4 and 120-067B14 Protective Coil may be purchased from Bell Helicopter, Textron (FSCM 97499)

Figure D-10



Part Number: 45D88 STOP
 Fabricate from: NSN 9535-00-250-6907
 Material: Aluminum Alloy 6061-T6
 Federal Specification QQ-A-327
 Temp T6 or AMS4027
 0.05 In. Thick, 0.50 In. Wide, 2.0 In. Long

Figure D-1 1

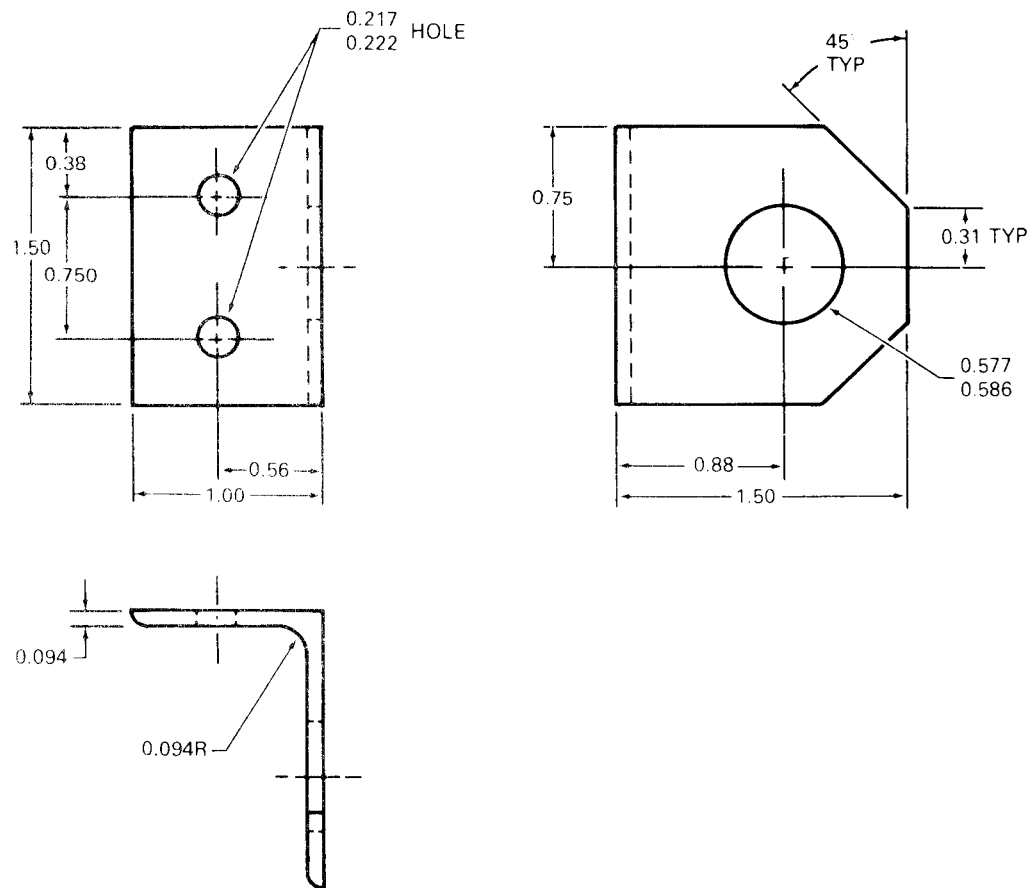


PART NO.	A DIA.	B DIA.	C RAD.
20-032-1	0.204	0.204	0.250
20-032-2	0.204	0.264	0.250
20-032-3	0.264	0.204	0.250
20-032-5	0.332	0.204	0.375

Part Number: 20-032-1 SUPPORT BRACKET
 20-032-2 SUPPORT BRACKET
 20-032-3 SUPPORT BRACKET
 20-032-5 SUPPORT BRACKET

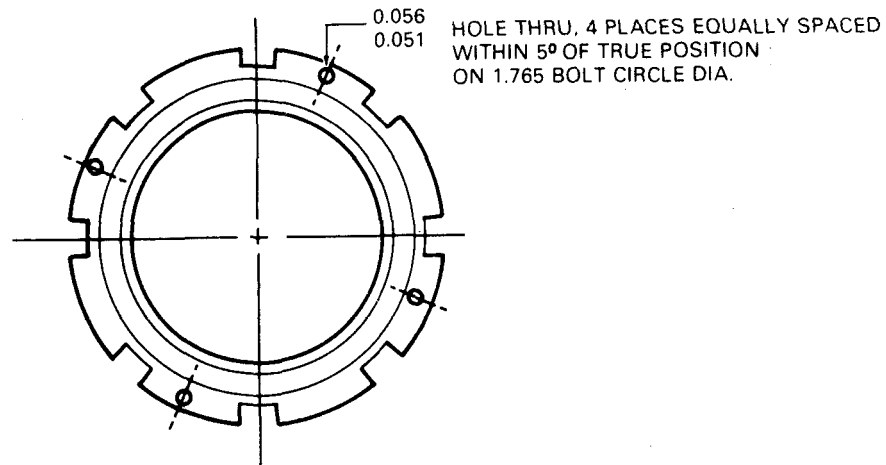
Fabricate from: NSN 9535-00-232-0378
 Material: Aluminum Alloy, Federal Specifications
 QQ-A-250/5, 0.063 inch thick,
 0.500 in wide, 2.0 in long

Figure D-12



Part Number: 20-061-2 SUPPORT ANGLE BRACKET
Fabricate from: NSN 9540-00-145-4528
Material: Structural Angle, Aluminum
 Federal Specification QQ-A-200-1116
 0.094 in thk, 1.0 in wide, one leg,
 1.5 in other leg

Figure D-13.

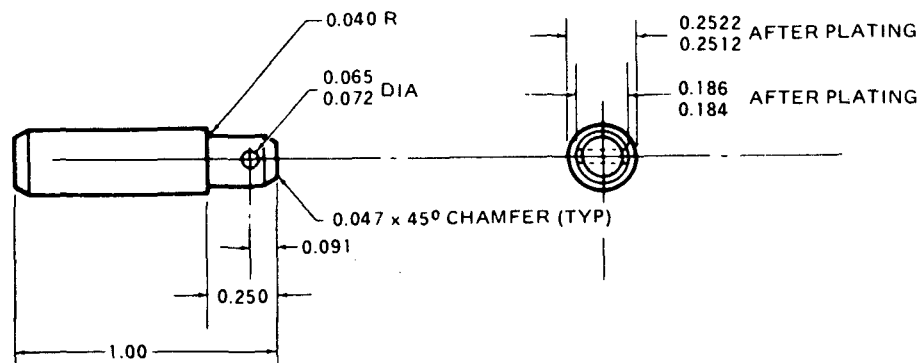


NOTES:

1. Alter Standard MS172243 Nut.

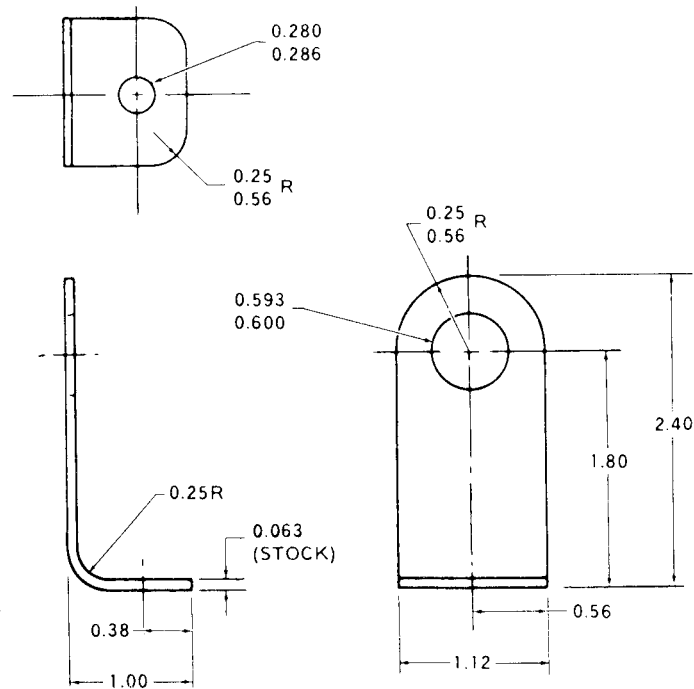
Part Number: 204-001-222-1 COLLECTIVE STICK LOCK NUT
Fabricate from: NSN 5310-00-566-8864
Material: Nut Plain, Round Steel
 1.376 inch diameter

Figure D-14.



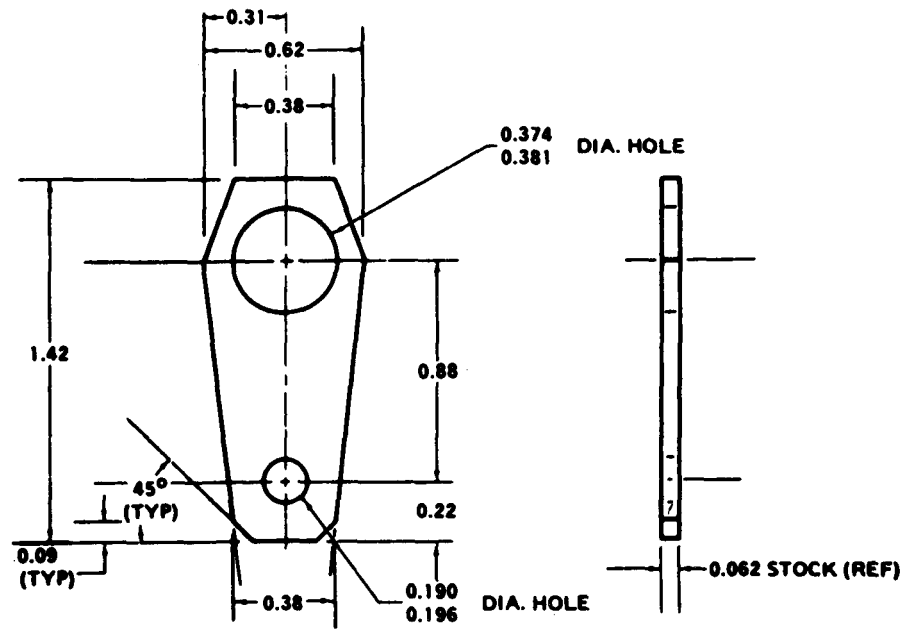
Part Number: 204-001-257-1 PIN
Fabricate from: NSN 9510-00-234-4279
Material: Steel Rod, 4130 Federal Specification
 MIL-S-6758 COND D4, 0.3125 IN DIA,
 1.2 IN LONG

Figure D-15.



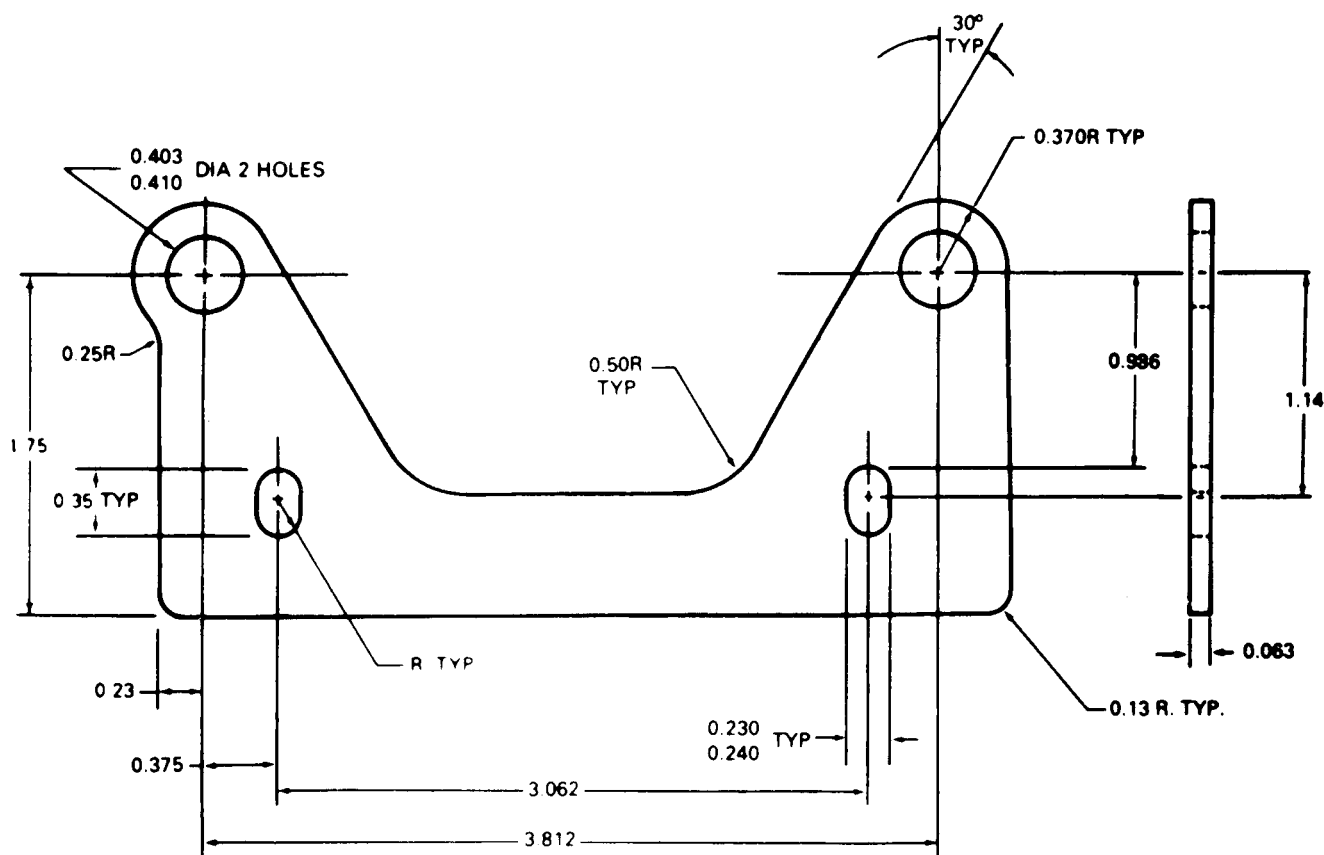
Part Number: 204-040-299-1 BRACKET
Fabricate from: NSN 9535-00-232-0378
Material: Aluminum Alloy, 2024, Federal Specification QQ-A-362, 0.063 in thk, 1.3 in wide, 3.7 in long

Figure D-16.



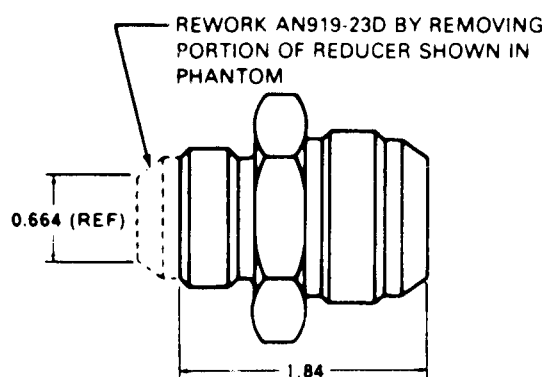
Part Number: 204-040-732-1 CLIP
 Fabricate from: NSN 9515-00-184-8808
 Material: Sheet Steel, Federal Specification
 MIL-S-18729 Cond N,
 0.063 in thk, 0.75 in wide, 1.5 in long

Figure D-17.



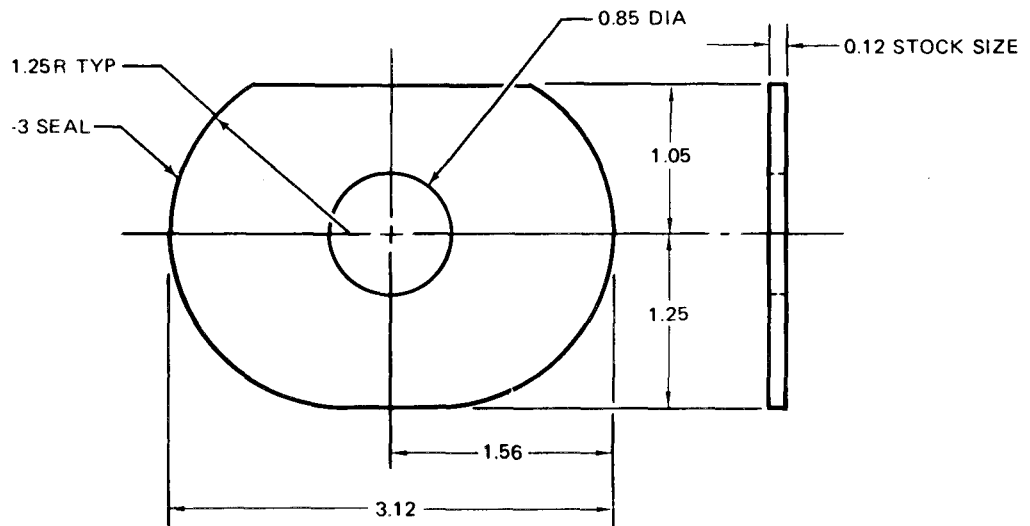
Part Number: 204-040-848-1 BRACKET
 Fabricate from: NSN 9535-00-232-0378
 Material: Aluminum Alloy, Federal Specification,
 QQ-A-250/5 T-3, 0.063 inch thk, 2.6 inch wide, 5.0 inch long

Figure D-18.



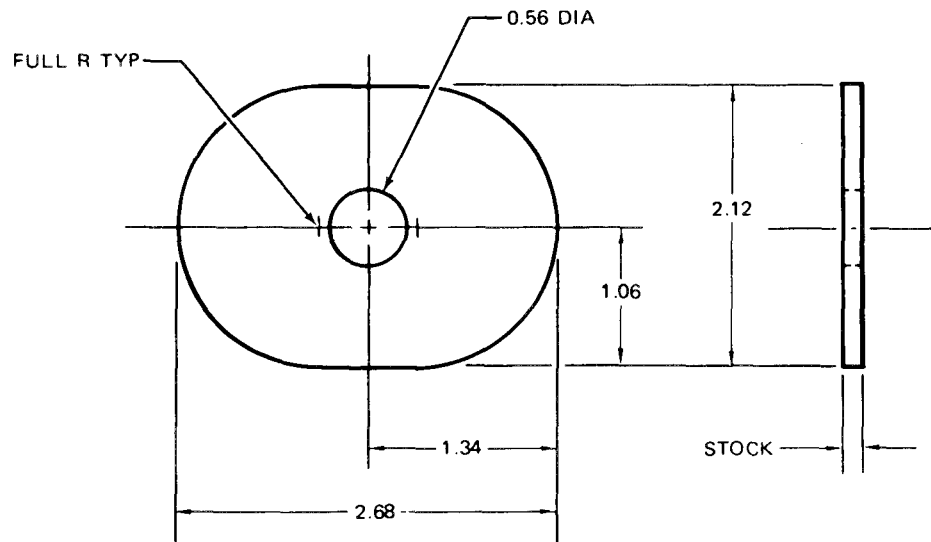
Part Number: 204-060-045-1 REDUCER
 Fabricate from: NSN 4730-00-187-3596
 Material: AN919-23D Fitting, Aluminum

Figure D-19.



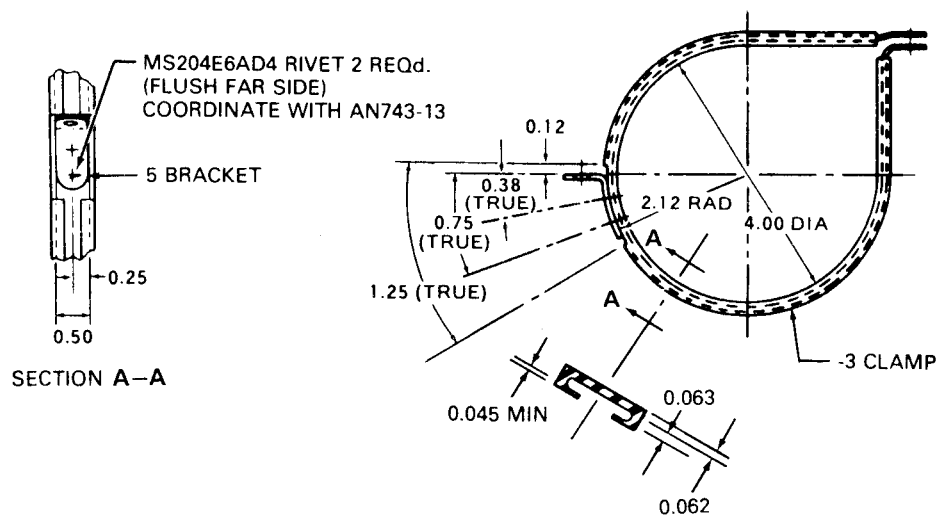
Part Number: 209-001-746-3 GASKET
Fabricate from: NSN 9320-00-291-0416
Material: Rubber Sheet MIL-R-6130, Type II, Grade A Soft
 0.12 Inch Thick, 2.50 Inch Wide, 3.5 Inch Long

Figure D - 20



Part Number: 209-001-747-1 SEAL
Fabricate from: NSN 9320-00-291-0416
Material: Rubber Sheet MIL-R-6130
 Type II, Grade A Soft
 0.125 In. Thick, 2.30 In. Wide, 3.0 In. Long

Figure D - 21

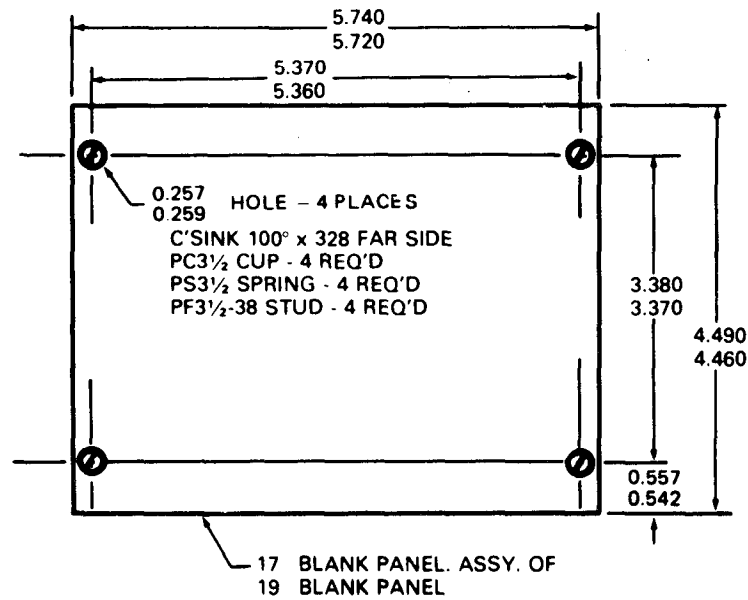


NOTES

1. Make from Altered MS21919DG64 and AN743-13 Standard Parts

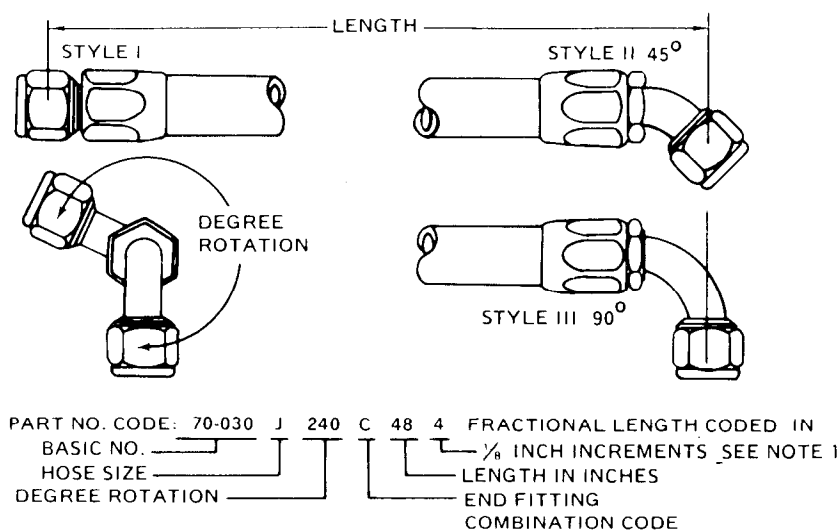
Part Number: 204-070-048-1 CLAMP ASSY.
Fabricate from: MS21919DG64, NSN 5340-00-587-6152
AN743-13, NSN 5340-00-721-8182

Figure D-22.



Part Number: 204-075-266-17 BLANK PANEL ASSEMBLY
Fabricate from: NSN 9535-00-242-8605
Material: Aluminum Alloy Federal Specification
 QQ-A-318, 0.063 in thk, 6.0 in. wide,
 6.2 in long

Figure D-23.



HOSE SIZE	3	4	5	6	8	10	12	16	20	24	32	= TUBING O.D. IN 1/16 IN. INCREMENTS
CODE LETTER	E	F	G	H	J	K	L	M	N	P	R	

STYLES AND MATERIALS SERIES OF END FITTINGS (FLARED)				
COMBINA-TIONS CODE	SERIES	FITTING STYLE	SERIES	FITTING STYLE
A	Lt Wt Alum	I	Lt Wt Alum	I
B	Lt Wt Alum	II	Lt Wt Alum	II
C	Lt Wt Alum	III	Lt Wt Alum	III
D	Cres	I	Cres	I
E	Cres	II	Cres	II
F	Cres	III	Cres	III
G	Lt Wt Alum	I	Cres	III
H	Lt Wt Alum	I	Cres	II
T	Lt Wt Alum	I	Lt Wt Alum	II
V	Lt Wt Alum	I	Lt Wt Alum	II
W	Lt Wt Alum	II	Lt Wt Alum	III
X	Cres	I	Cres	II
Y	Cres	I	Cres	III
Z	Cres	II	Cres	III

Figure D-24 (Sheet 1 of 2)

EXAMPLE OF CALL OUT:

70-030J240C484 Hose assembly TFE, 0.5 inch O.D. 240° rotation, 90° aluminum flared fittings both ends, 48.5 inches long.
 70-030J005C484 Hose assembly TFE, 0.5 inch O.D. 5° rotation, 90° aluminum flared fittings both ends, 48.0 inches long.

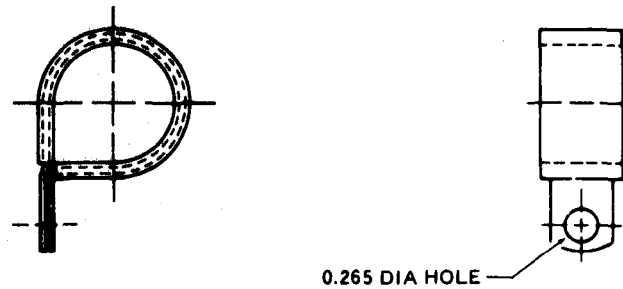
Notes: 1. Fractional length hoses are specified in the following increments only.

- (a) Under 18 inches long 1/4 inch increments only
- (b) Over 18 inches long 1/2 inch only.

HOSE ASSEMBLY, FLARED, HIGH TEMP, MEDIUM PRESSURE

HOSE PART NUMBER	HOSE MATERIAL NSN	END FITTING NSN	END FITTING NSN
70-030F000X094	4720-00-541-9281	4730-00-054-7650	4730-00-889-2465

Figure D-24 (Sheet 2 of 2)

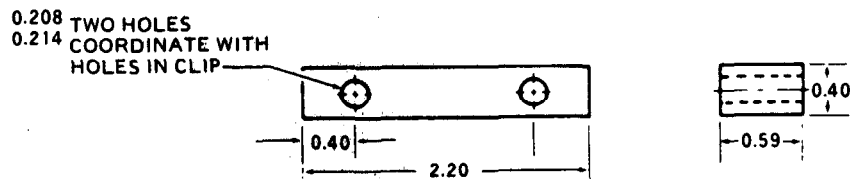


NOTE:

1. Alter MS21919DG15 Clamp as shown above.

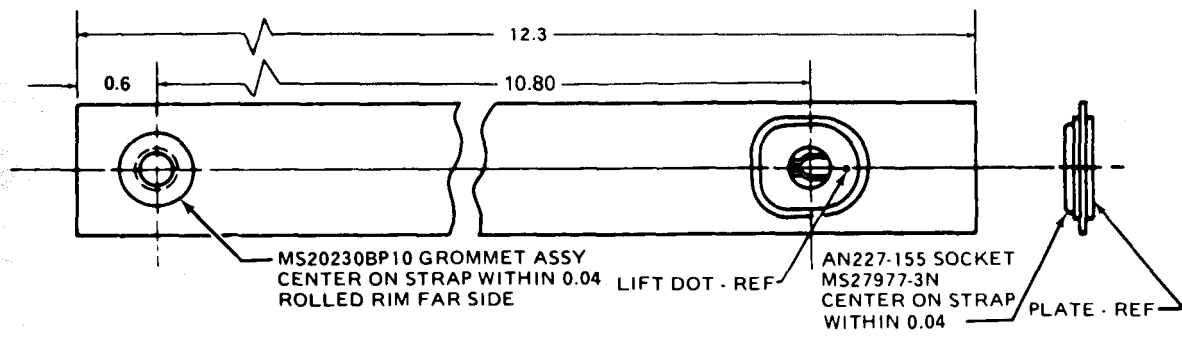
Part Number: 205-040-156-1 CLAMP
Fabricate from: NSN 5340-00-989-4572
Material: Clamp Loop Aluminum Alloy
 w/synthetic rubber non-fuel resistant cushion.

Figure D-25.



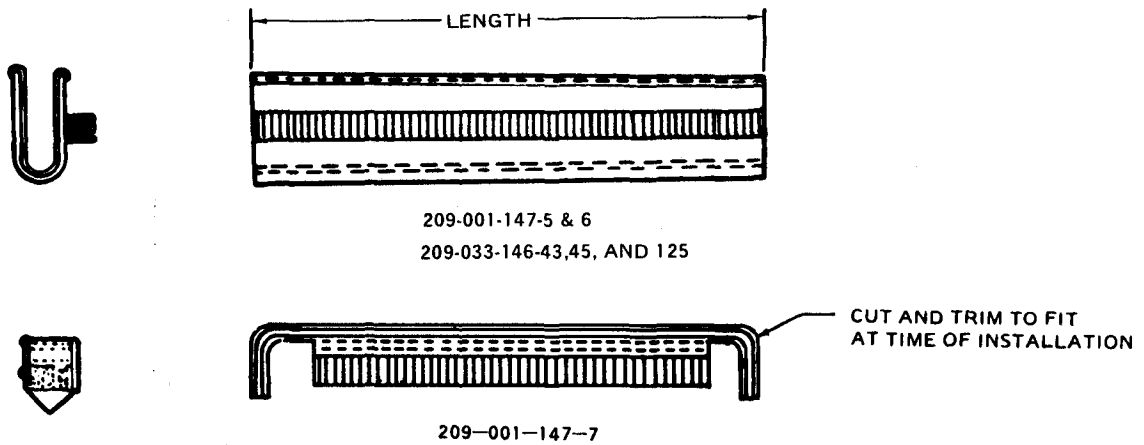
Part Number: 205-080-425-15 SEAL
Fabricate from: NSN 9320-00-618-3180
Material: Rubber, Sheet, Cellular
 Federal Specification MIL-R-6130
 Grade A, Type 11, 0.050 in,thk,
 1.0 in,wide, 2.70 in, long

Figure D-26



Part Number: 209-001-138-1 STRAP ASSY.
Fabricate from: NSN 8305-00-267-3009
Material: Webbing, Nylon, Federal Specification
 MIL-W-4088, Type 2, Class XVII,
 Olive Drab 1.0 inch wide

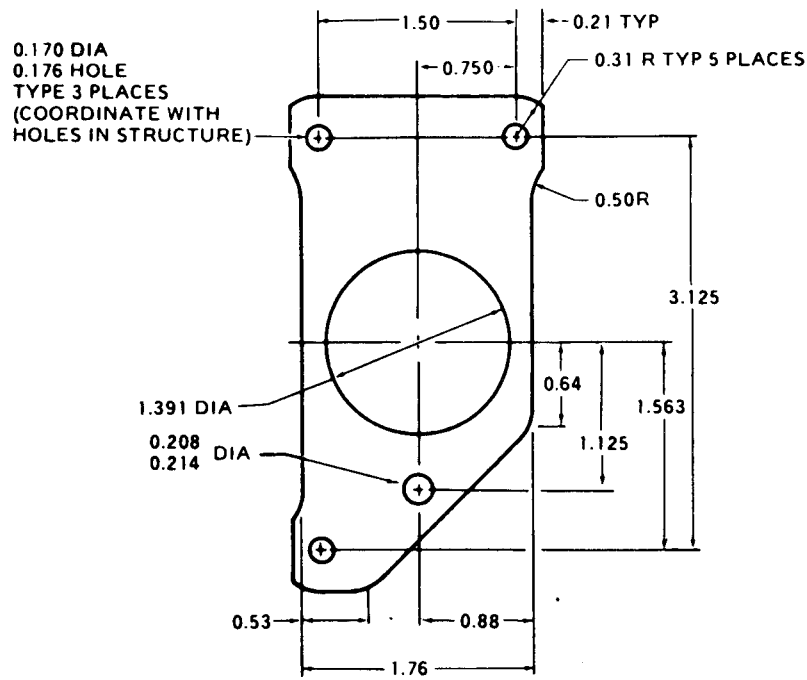
Figure D-27.



PART NO.	LENGTH
209-001-147-5	6.88
209-001-147-6	6.88
209-001-147-7	4.50
209-033-146-43	2.11
209-033-146-45	10.00
209-033-146-125	1.76

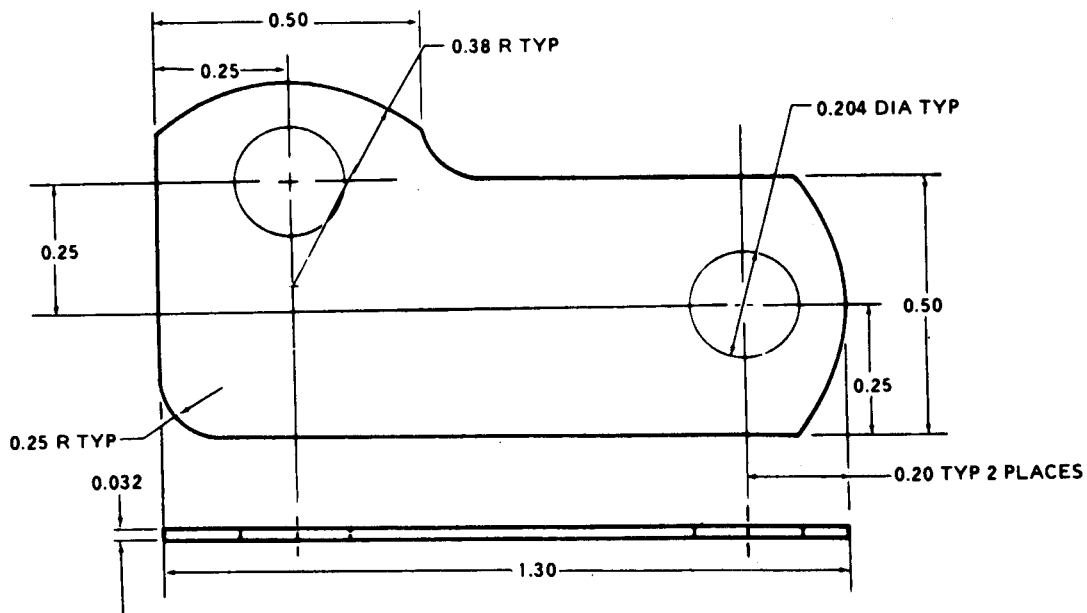
Part Number: (SEE CHART) BRUSHES
 Fabricate from: NSN 7920-00-898-9088
 Material: Brush, Nylon Cleaning.
 Make from B133Y791
 Product of Schlegel Mfg. Co., Rochester N.Y.,
 Code Ident No. 77824

Figure D-28



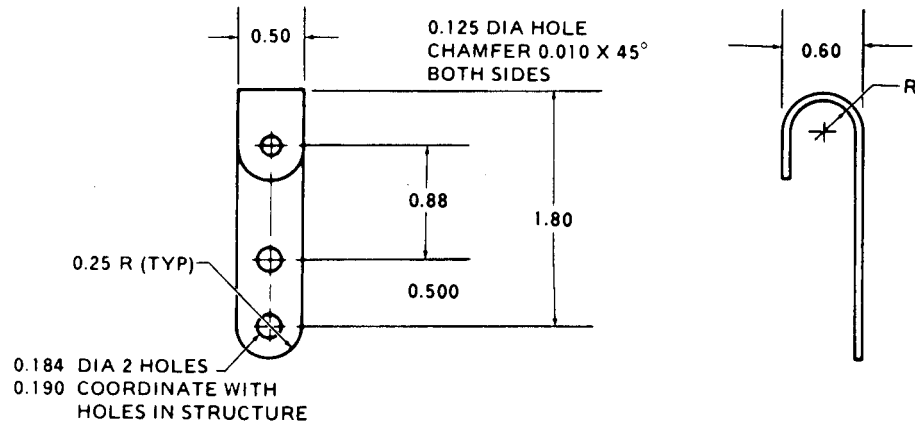
Part Number: 209-001-152-1 PLATE, Boot
Fabricate from: NSN 9535-00-232-0378
Material: Aluminum Alloy, 2024, Federal
 Specification QQ-A-250/4, 0.063 in.thk,
 2.7 in.wide, 4.2 in.long

Figure D-29



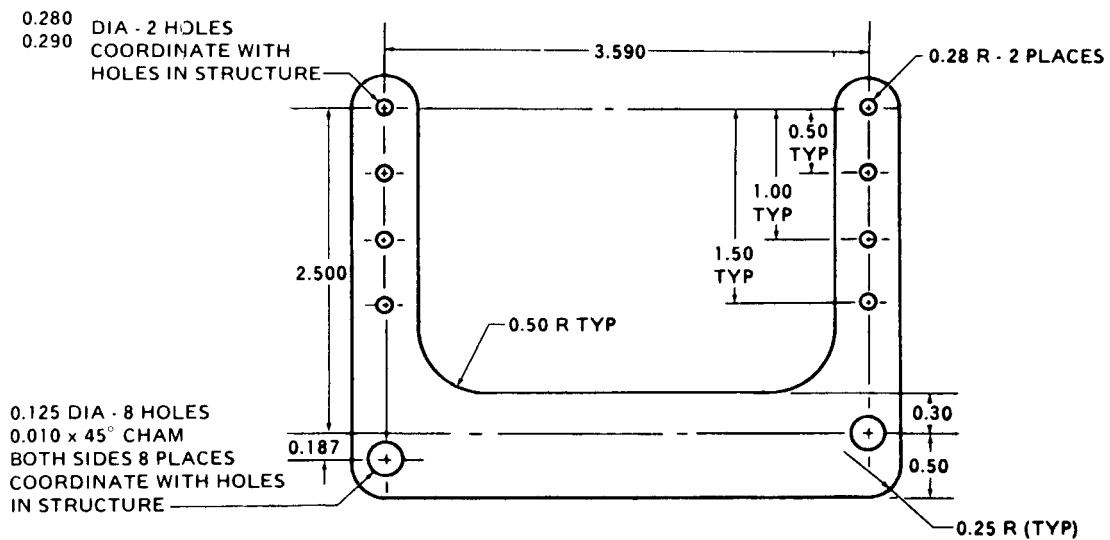
Part Number: 209-001-338-1 SUPPORT Clamp, Gunners Stick
Fabricate from: NSN 9535-00-086-9729
Material: Aluminum Alloy, 2024, Federal
 Specification QQ-A-355, 0.032 in.thk,
 1.7 in.wide, 1.8 in.long

Figure D-30



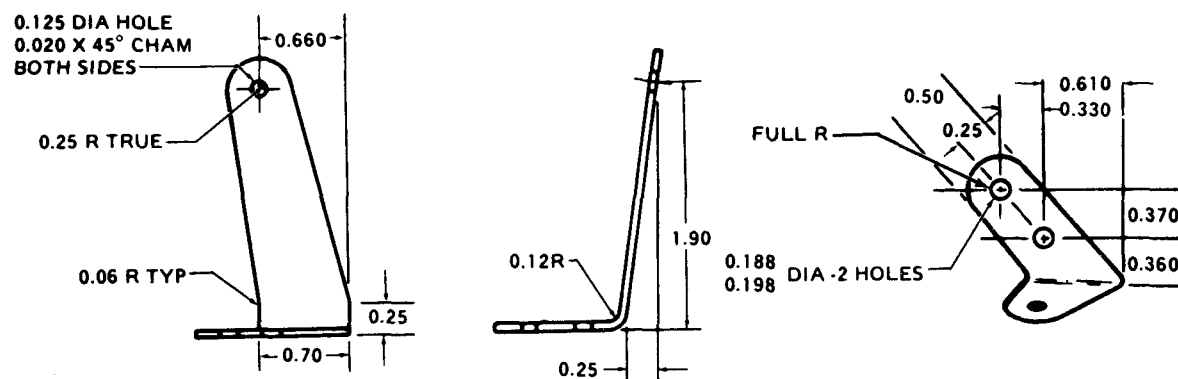
Part Number: 209-001-344-1 CLIP
Fabricate from: NSN 9515-00-184-8807
Material: Sheet Steel, 4130, Federal
 Specification MIL-S-18729,
 Condition N, 0.050 in.thk, 1.0 in.wide

Figure D-31.



Part Number: 209-001-516-1 PLATE
Fabricate from: NSN 9515-00-640-4145
Material: Sheet Steel, 4130, Federal
 Specification MIL-S-18729 Condition N
 0.032 in.thk, 4.0 in.wide, 5.0 in.long

Figure D-32.



Part Number: 209-001-517-1 BRACKET
209-001-517-2 BRACKET

Fabricate from: NSN 9515-00-184-8808

Material: Sheet Steel, 4130, Federal
Specification MIL-S-18729,
Condition N 0.063 in.thk,
3.0 in wide, 4.5 in, long

Figure D-33.

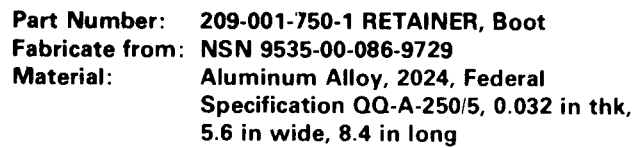
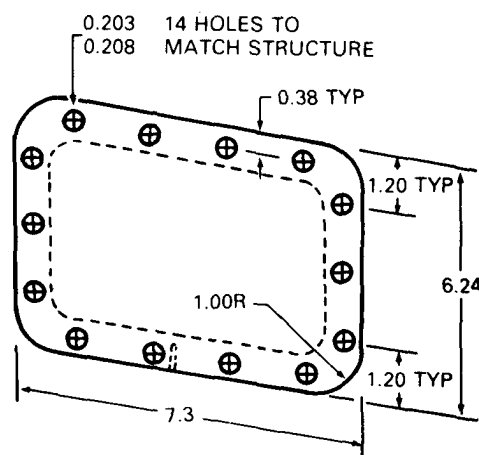


Figure D-34.

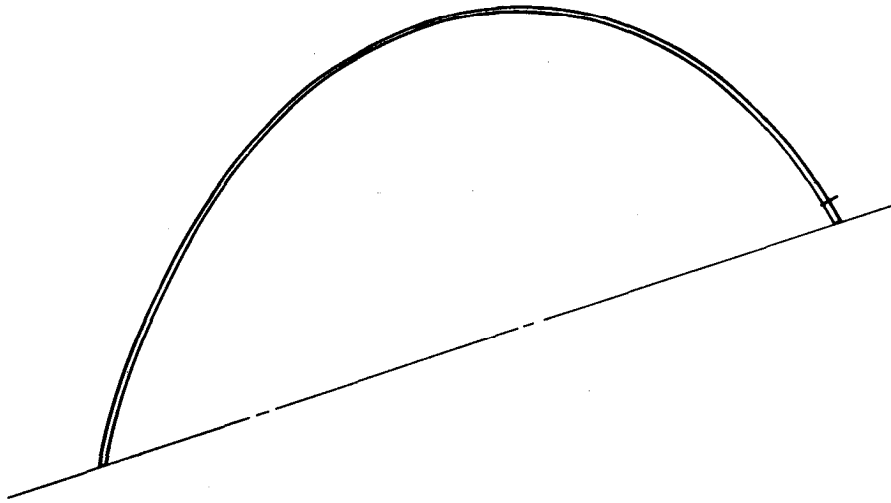


Part Number: 209-020-001-111 DOOR SHOWN
209-020-001-112 DOOR OPPOSITE

Fabricate from: NSN 9535-00-088-6599

Material: Aluminum Alloy 7075,
Federal Specification QQ-A-250/13, T3,
0.063 In. Thk, 6.5 In. Wide, 8.1 In. Long

Figure D-35.



NOTES:

1. Cut aluminum material to 14.5 in. wide, 16.5 in. long.
2. Contour aluminum material to be same as leading edge of wing.
3. Trim to fit structure.
4. Drill mounting holes 0.203 to 0.208 in. diameter matching nutplates in structure.

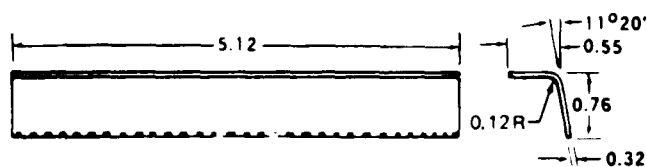
Part Number: 209-020-001-47 COVER

209-020-001-48 COVER

Fabricate from: NSN 9535-00-086-929

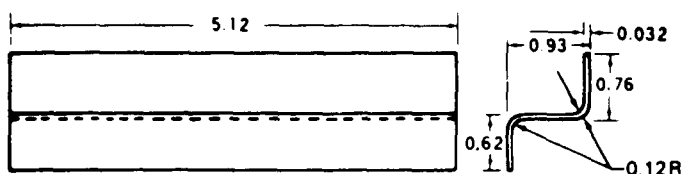
Material: Aluminum Alloy 2024,
Federal Specification QQ-A-250/5, T3,
0.32 In. Thk, 14.5 In. Wide, 16.5 In Long

Figure D-36



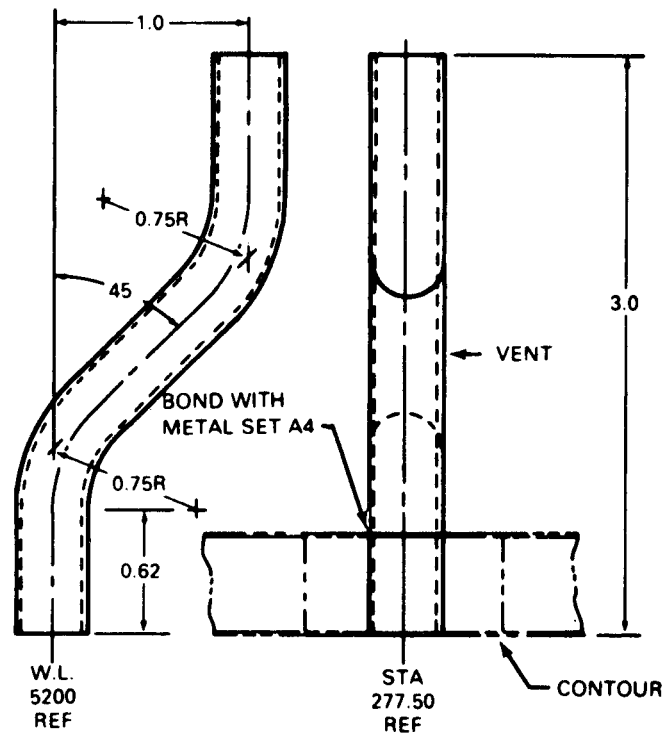
Part Number: 209-020-107-15 BRACKET SHOWN
 209-020-107-16 BRACKET OPPOSITE
Fabricate from: NSN 9535-00-167-2279
Material: Aluminum Alloy, 2024, Federal Specification
 QQ-A-2505, T3, 0.032 in. thk, 1.8 in. wide,
 5.6 in. long

Figure D-37.



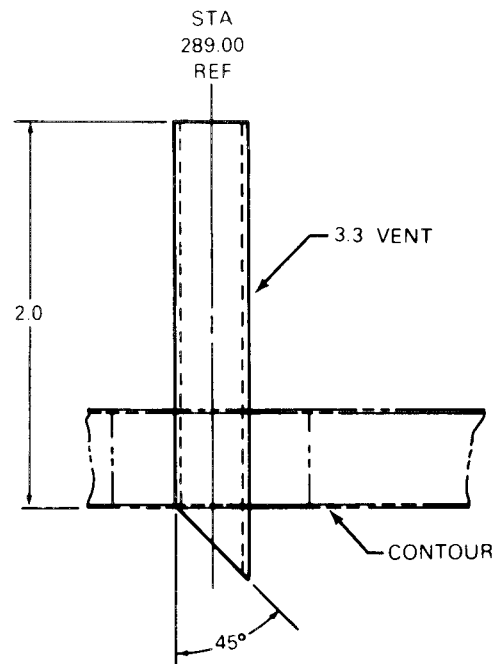
Part Number: 209-020-107-17 BRACKET SHOWN
 209-020-107-18 BRACKET OPPOSITE
Fabricate from: NSN 9535-00-167-2279
Material: Aluminum Alloy 2024, Federal
 Specification QQ-A-250/5,T3,
 0.032 in. thk, 2.8 in. wide, 5.6 in. long

Figure D-38.



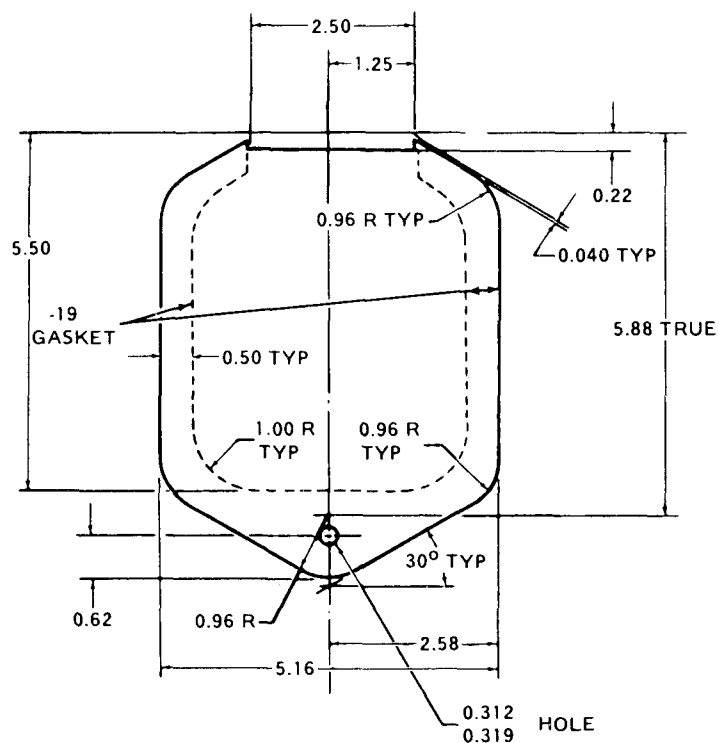
Part Number: 209-030-128-17 TUBE
Fabricate from: NSN 4710-00-278-6402
Material: Tube Aluminum 5052, Federal Specification WW-T-700/4
 0.375 in dia, 0.028 in wall thk

Figure D-39.



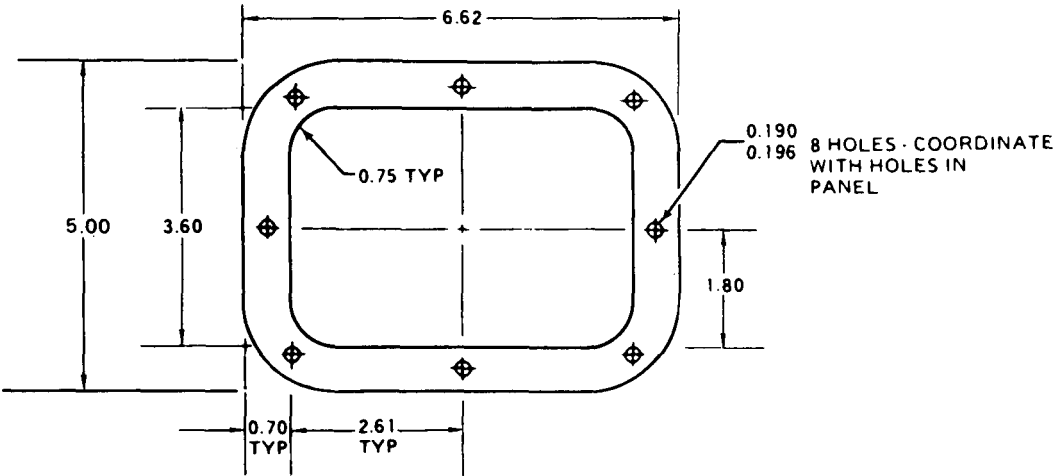
Part Number: 209-030-128-33 TUBE
 Fabricate from: NSN 4710-00-278-6402
 Material: Tube Aluminum 5052, Federal
 Specification WW-T-70/4, 0.0375 in dia,
 0.028 in. wall thk

Figure D-40.



Part Number: 209-030-139-3 DOOR, ACCESS
 209-030-139-19 GASKET
 Fabricate from: NSN 9535-00-167-2174
 NSN 9320-00-241-9740
 Material: Aluminum Alloy 2024,
 Federal Specification, QQ-A-250/5, T3
 0.025 In. Thk, 5.8 In. Wide, 7.3 In. Long
 Rubber Sheet, TAK,
 Federal Specification MIL-R-6855 Class 2,
 Grade 40, 0.032 In. Thk, 6.0 In. Wide, 8.0 In. Long

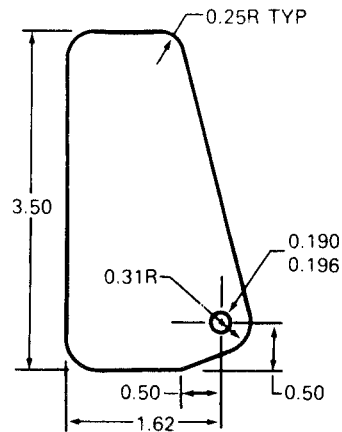
Figure D-41.



PART NUMBER	MATERIAL SIZE	
	WIDTH	LENGTH
209-030-193-29	5.3	7.0

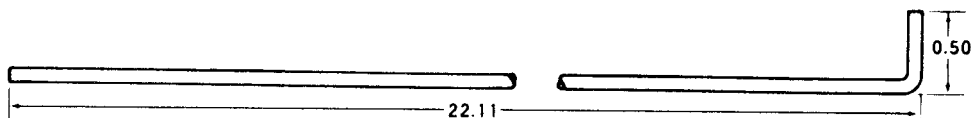
Part Number: 209-030-193-29 SEAL
Fabricate from: NSN 9320-00-878-6507
Material: Rubber Sponge,
Federal Specification AMS3195,
Silicone, Black 0.062 In. Thk

Figure D-42



Part Number: 209-030-216-87 ATTACHMENT
 209-030-216-88 ATTACHMENT
 Fabricate from: NSN 9535-00-232-0405
 Material: Aluminum Alloy 2024,
 Federal Specification QQ-A-250/5, T3,
 0.090 in. thk, 2.50 in. wide, 4.0 in. long

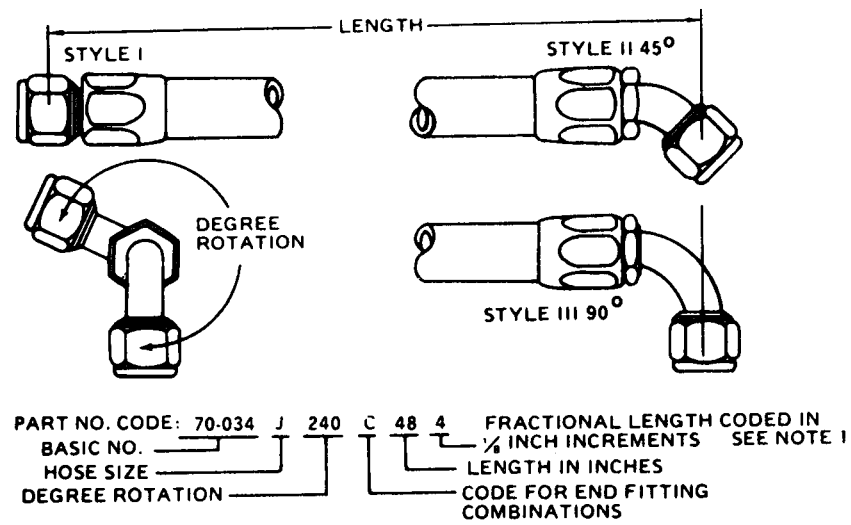
Figure D-43
 Figure D-43.



Deleted

Part Number: 209-030-216-89 HINGE PIN
 Fabricate from: NSN 5340-00-068-4378
 Material: Rod Straight Headless,
 0.089 in. dia, 36.00 in. long

Figure D-44
 Figure D-44.



HOSE SIZE	3	4	5	6	8	10	12	16	20	24	32	= TUBING O.D. IN 1/16 IN. INCREMENTS
WITHOUT CHAFE GUARD	E	F	G	H	J	K	L	M	N	P	R	
WITH CHAFE GUARD SEE NOTE 2	S	T	U	V	W	X	Y	Z	A	B	C	

STYLES AND MATERIALS SERIES OF END FITTINGS (FLARELESS)				
COMBINA-TIONS CODE	MATERIAL SERIES	FITTING STYLE	MATERIAL SERIES	FITTING STYLE
A	Alum	I	Alum	I
B	Alum	II	Alum	II
C	Alum	III	Alum	III
D	Steel	I	Steel	I
E	Steel	II	Steel	II
F	Steel	III	Steel	III
G	Alum	I	Steel	III
H	Alum	I	Steel	II
T	Alum	I	Alum	II
V	Alum	I	Alum	III
W	Alum	II	Alum	III
X	Steel	I	Steel	II
Y	Steel	I	Steel	III
Z	Steel	II	Steel	III

Figure D-45 (Sheet 1 of 2)

EXAMPLE OF CALLOUT:

70-034J240C484 = Hose assembly-rubber, non-tire resistant, 1/2 inch O.D. 240° rotation, 90° aluminum flareless fittings both ends, 48.5 inches long, without chafe guard.

70-034W000C480 = Hose assembly-rubber, non-fire resistant, 0.5 inch O.D., 0° rotation, 90° aluminum flareless fitting both ends, 48.0 inches long, with chafe guard,

Notes: 1. Fractional length hoses are in the following increments:

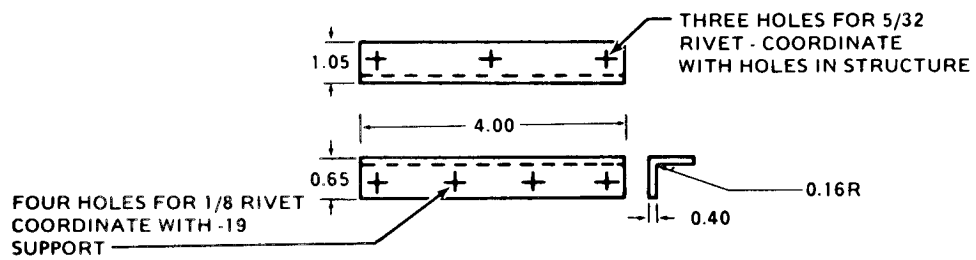
- (a) Under 18 inches long = 1/4 inch increments (2, 4, or 6 only)
- (b) Over 18 inches long = 1/2 inch only (4 only)

2. Chafe guard is translucent vinyl plastic per MIL-1-7444 type I. Ends of chafe guard must be within 0.19 inch of fittings.

HOSE ASSEMBLY, FLARELESS, MEDIUM PRESSURE, NON-FIRE RESISTANT

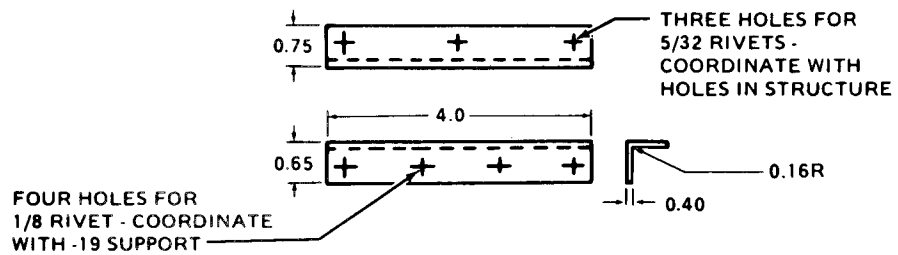
HOSE PART NUMBER	HOSE MATERIAL NSN	END FITTING NSN	END FITTING NSN	CHAFE GUARD NSN
70-034Z000V174	4720-00-540-6434	4730-00-936-2364	4730-00-403-0886	5970-00-815-1300
70-034Z105W234	4720-00-540-6434	4730-00-087-1016	4730-00-403-0886	5970-00-815-1300

Figure D-45 (Sheet 2 of 2)



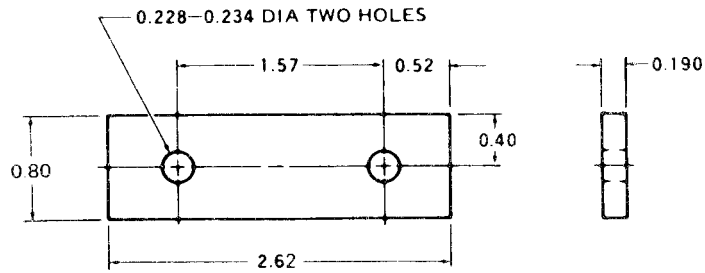
Part Number: 209-030-253-21 CLIP
 Fabricate from: NSN 9535-00-167-2280
 Material: Aluminum Alloy, 2024, Federal
 Specification QQ-A-250/5, T3
 0.040 in. thk, 2.2 in. wide, 4.5 in. long

Figure D-46.



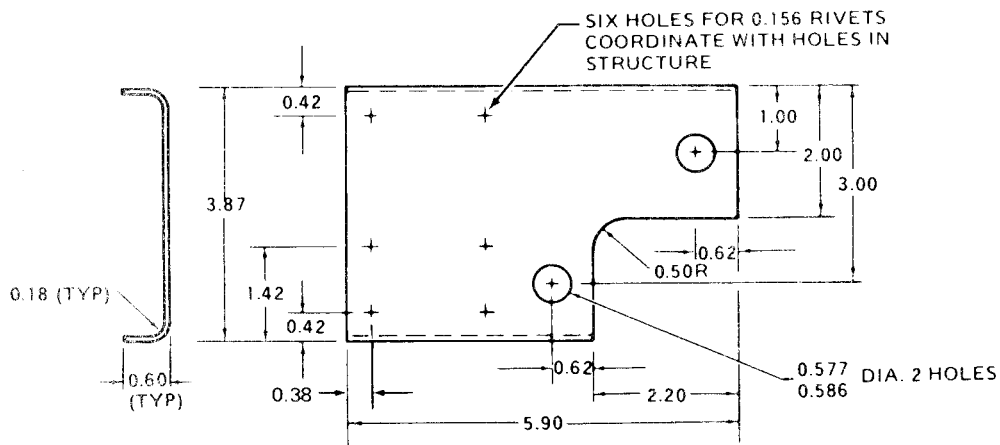
Part Number: 209-030-253-23 CLIP
 Fabricate from: NSN 9535-00-167-2280
 Material: Aluminum Alloy, 2024, Federal
 Specification QQ-A-250/5, T3,
 0.040 in thk, 1.9 in wide, 4.5 in long

Figure D-47.



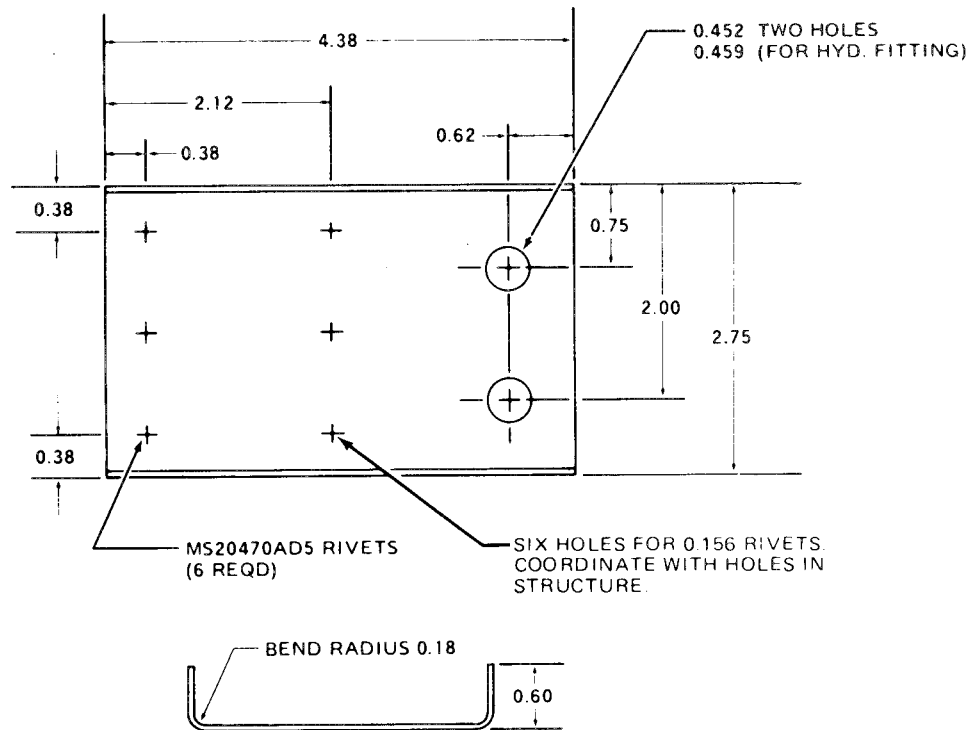
Part Number: 209-030-260-37 SHIM
 Fabricate from: NSN 9535-00-400-3622
 Material: Shim Stock Laminated,
 Federal Specification AMS4013,
 0.190 in thk, 1.3 in wide, 3.1 in long

Figure D-48.



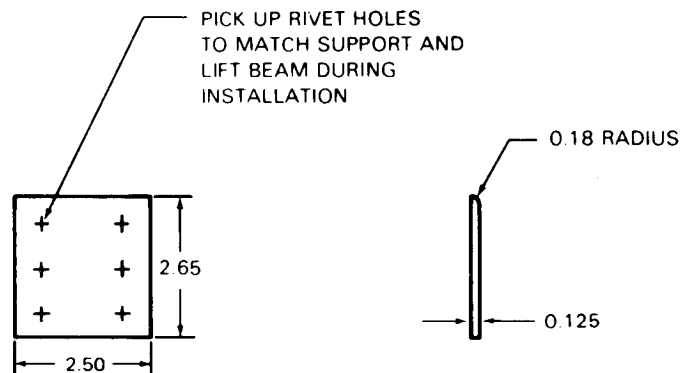
Part Number: 209-030-267-17 SUPPORT
 Fabricate from: NSN 9535-00-232-0569
 Material: Aluminum Alloy, 2024, Federal
 Specification QQ-A-250/5, T3,
 0.050 in. thk, 5.3 in. wide, 6.1 in. long

Figure D-49.



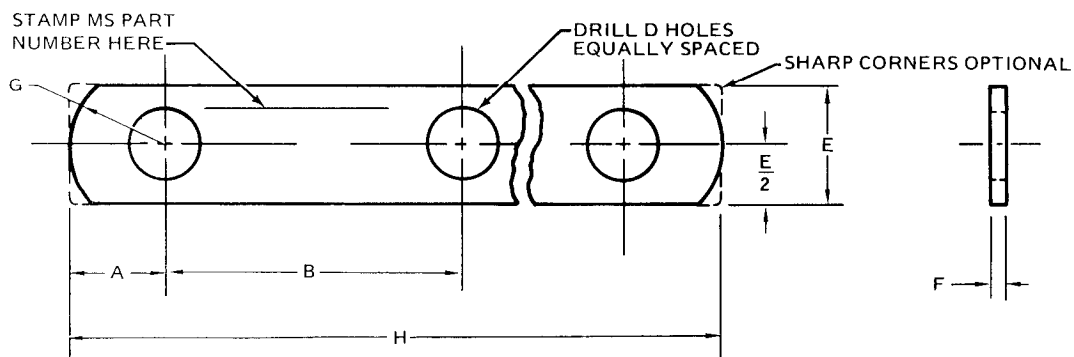
Part Number: 209-030-267-29 SUPPORT, Fitting
 Fabricate from: NSN 9535-00-232-0569
 Material: Aluminum Alloy, 2024, Federal
 Specification QQ-A-250/5
 0.050 in thk, 4.2 in wide, 4.6 in long

Figure D-50.



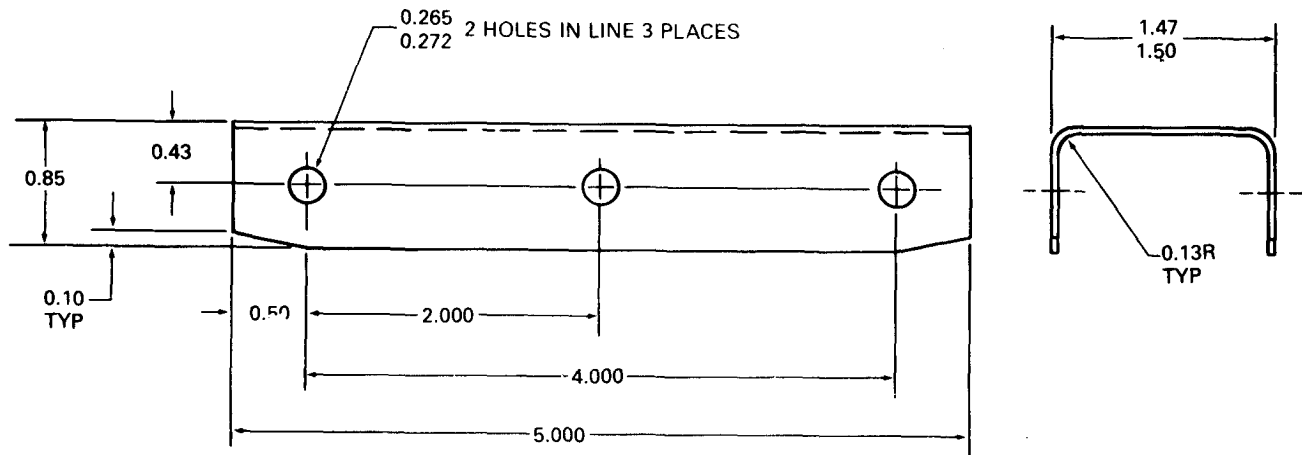
Part Number: 209-030-267-35 RADIUS, Block
Fabricate from: NSN 9535-00-084-4558
Material: Aluminum Alloy 2024, Federal Specification QQ-A-250/5, T3, 0.125 in, thk, 2.75 in, wide, 3.0 in. long

Figure D-51.



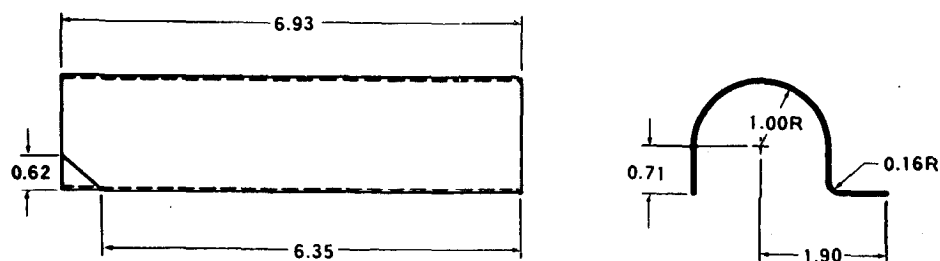
Part No.	A	B ± 0.010	D Drill	E	F ± 0.003	G ± 0.030	H	Fabricate from
MS25226-8-2	0.312	1.500	0.386	0.625	0.051	0.50R	2.125	5940-00-932-9864

Figure D-52



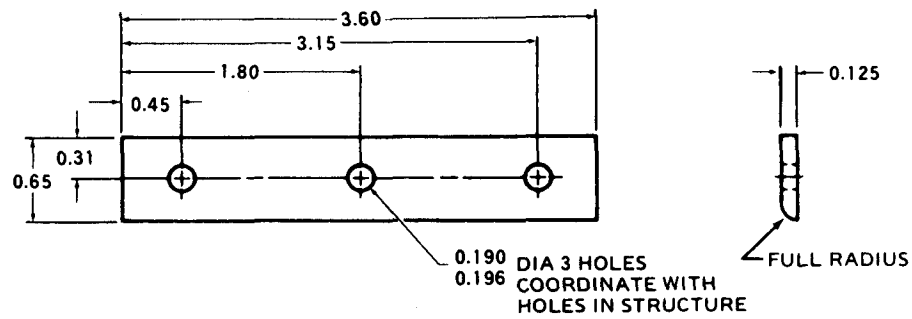
Part Number: 209-030-326-1 CHANNEL, BULKHEAD
Fabricate from: NSN 9535-00-167-2280
Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, T42, 0.040 in. thk, 2.1 in. wide, 5.5 in. long

Figure D-53.



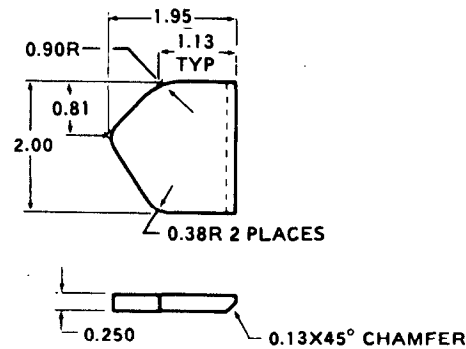
Part Number: 209-030-327-3, STRIP, CHAFING (SHOWN)
 209-030-327-4 STRIP, CHAFING (OPPOSITE)
Fabricate from: NSN 9515-00-580-8255
Material: Sheet Steel, CRES Federal Specification MIL-S-6721, COMP 321, Cond A, 0.040 in thk, 6.2 in wide, 7.5 in long

Figure D-54.



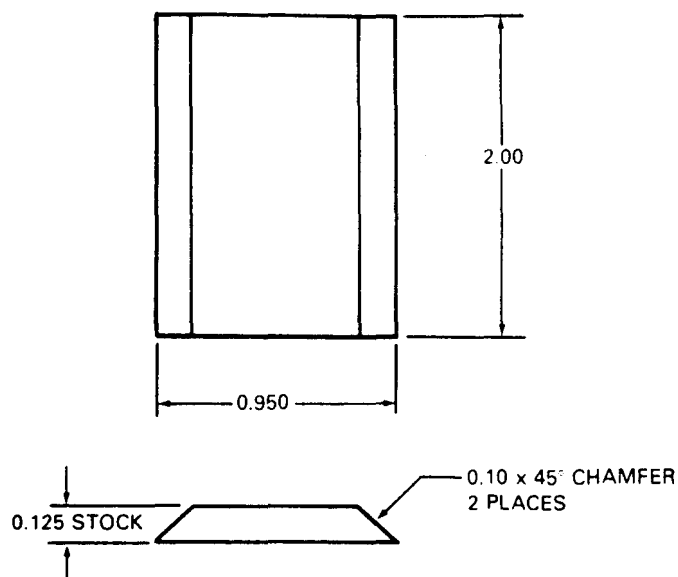
Part Number: 209-030-332-1 BLOCK, Filler
Fabricate from: NSN 9535-00-232-0479
Material: Aluminum Alloy, 2024, Federal
Specification, QQ-A-250/5, T3
0.125 in. thk, 1.2 in. wide, 4.1 in. long

Figure D-55.



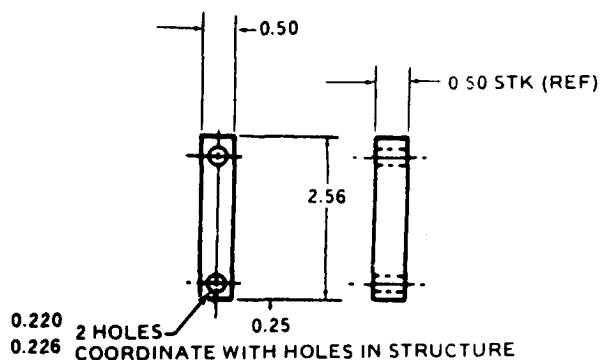
Part Number: 209-030-334-1 SPACER SHOWN
 209-030-334-2 SPACER OPPOSITE
Fabricate from: NSN 9535-00-085-4143
Material: Aluminum Alloy, 2024, Federal
Specification QQ-A-250/5, T3,
0.250 in. thk, 2.5 in. wide, 2.5 in. long

Figure D-56.



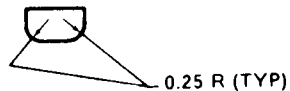
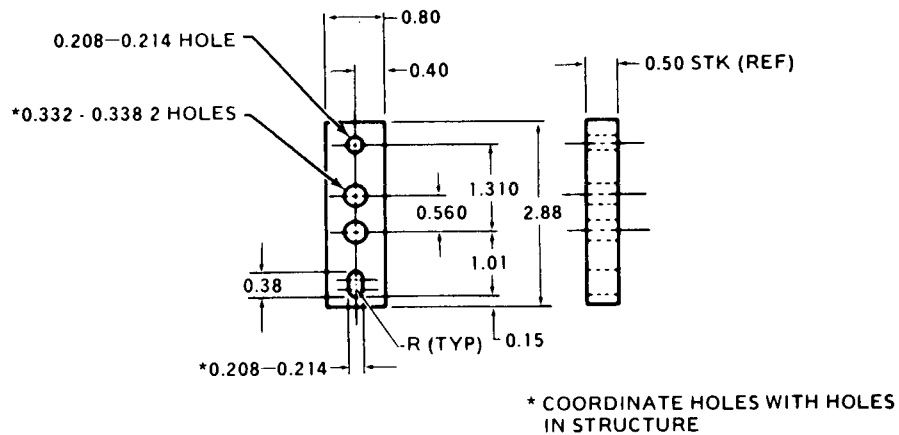
Part Number: 209-030-334-3 SPACER
Fabricate from: NSN 9535-00-084-4558
Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, 0.125 in thk, 1.5 in wide, 2.5 in long.

Figure D-57.



Part Number: 209-030-597-1 BLOCK, BATTERY SHELF
Fabricate from: NSN 9330-00-540-5673
Material: Plastic Sheet, Phenolic, Federal Specification MIL-P-15035 Type FBG, 0.50 in thk, 1.0 in wide, 3.0 in long

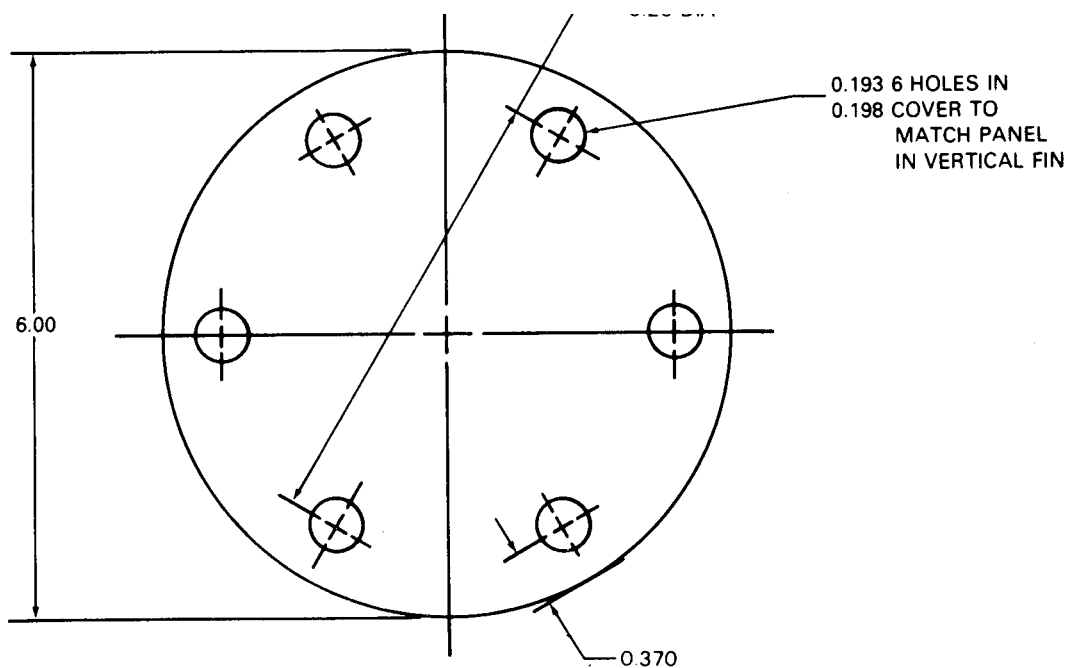
Figure D-58.



Part Number: 209-030-597-5 BLOCK
 Fabricate from: NSN 9330-00-880-4870
 Material: Plastic Sheet, Phenolic, Federal Specification MIL-P-15035, Type FBG, 0.50 in thk, 1.0 in wide, 3.0 in long

Figure D-59.

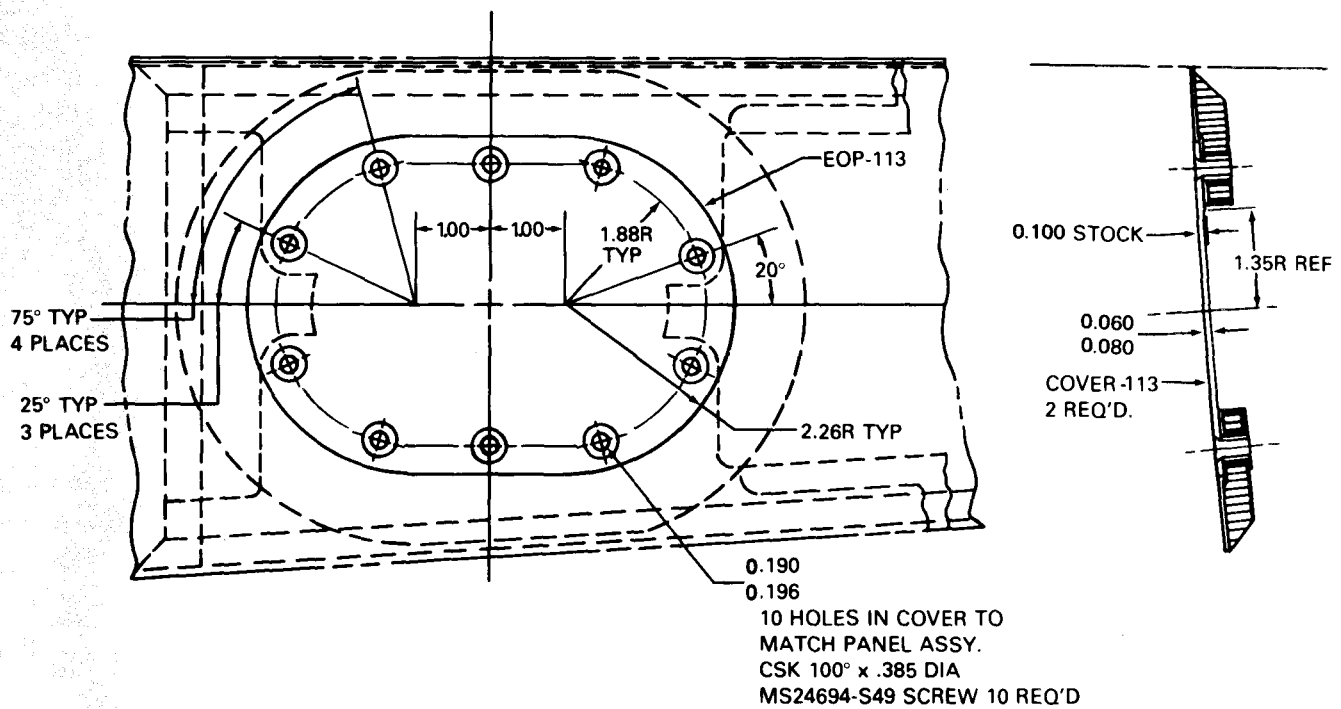
Figure D - 59 .



Part Number: 209-031-890-83 COVER ACCESS
 Fabricate from: NSN 9535-00-232-0550
 Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, T3, 0.025 in. thk, 6.5 in. wide, 6.5 in. long

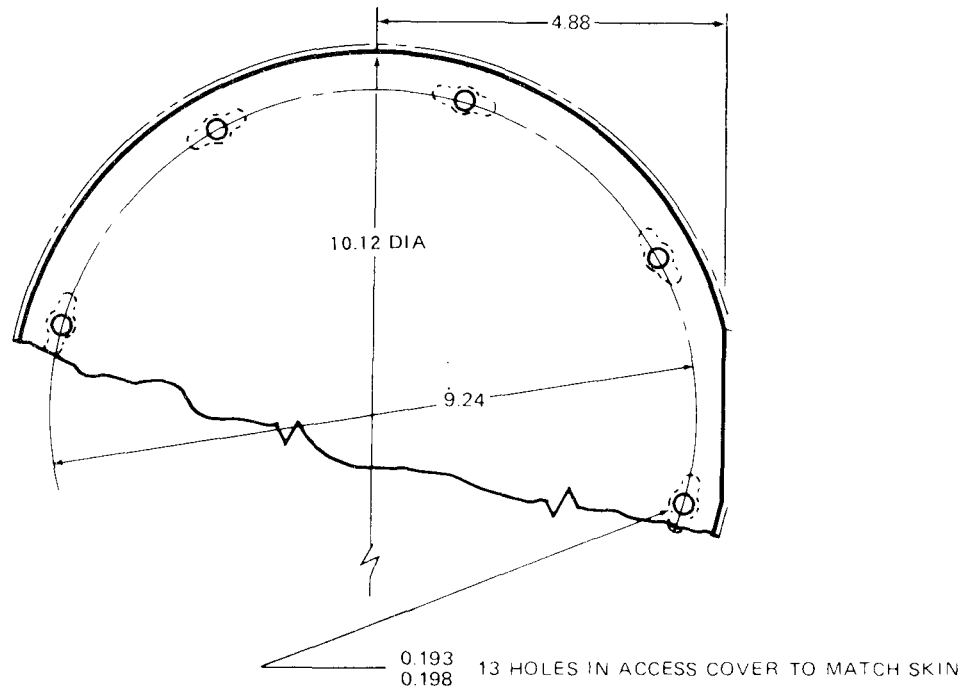
Figure D-60.

Figure D - 60 .



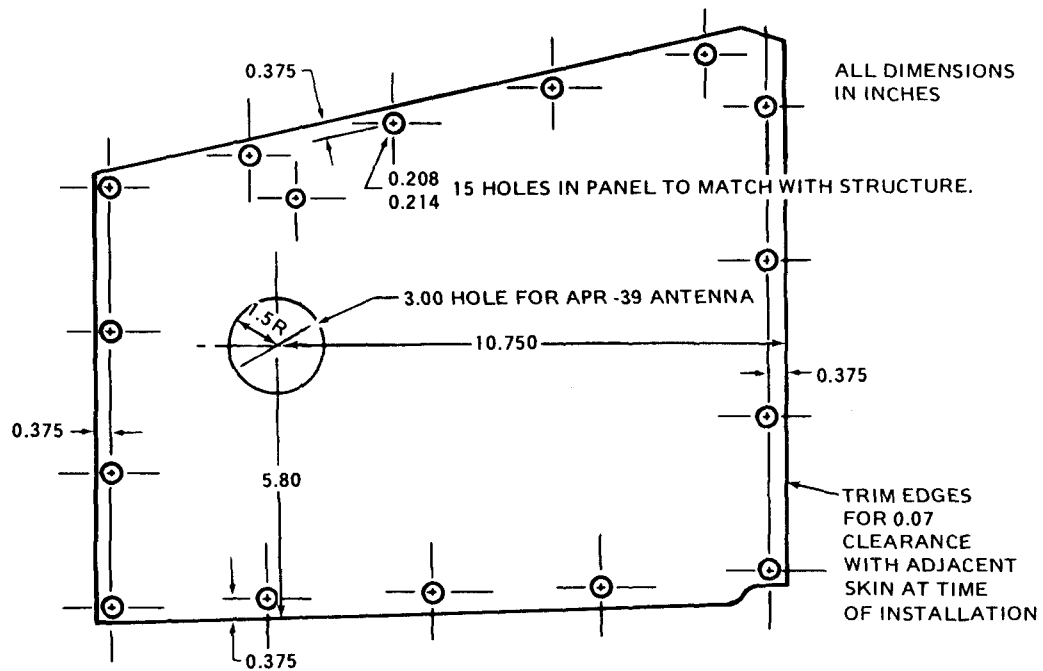
Part Number: 209-031-890-113 ACCESS PANEL
Fabricate from: NSN 9535-00-236-7074
Material: Aluminum Alloy, 7075,
 Federal Specifications QQ-A-250/13, T6,
 0.100 in. thk, 5.0 in. wide, 7.0 in. long

Figure D-61.



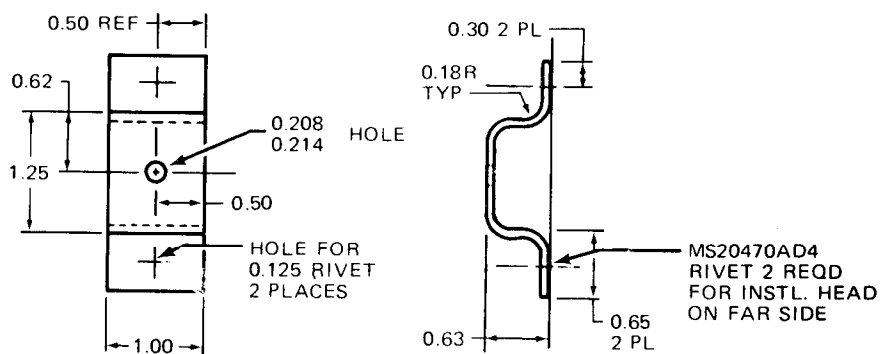
Part Number: 209-033-005-35 ACCESS COVER
 Fabricate from: NSN 9535-00-232-0378
 Material: Aluminum Alloy, 2024,
 Federal Specification QQ-A-250/5, T3
 0.063 in. thk, 8.0 in. wide, 8.0 in long

Figure D-62.



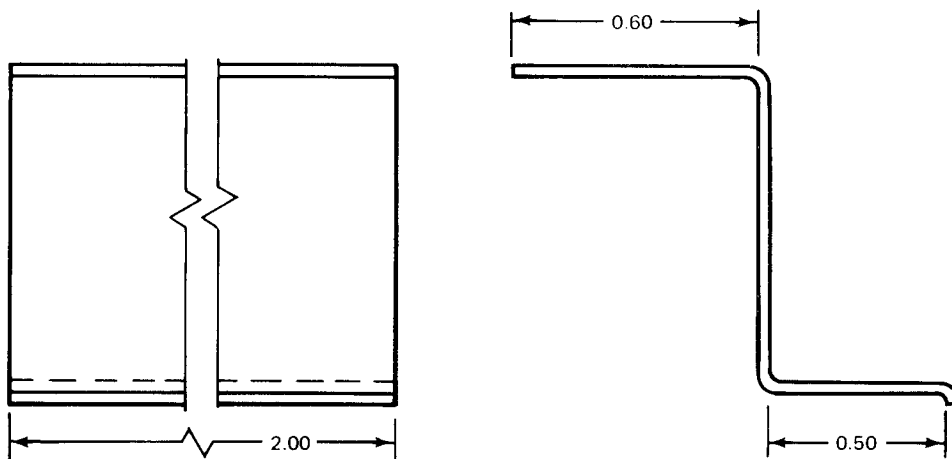
Part Number: 209-033-005-21 PANEL, NOSE INSTALLATION
Fabricate from: NSN 9535-00-554-1417
Material: Aluminum Alloy, 2024,
 Federal Specification QQ-A-250/5, T42,
 0.063 inch thick, 14.0 inch wide, 16.0 inch long

Figure D-63.



Part Number: 209-033-138-15 SUPPORT
Fabricate from: NSN 9535-00-232-0569
Material: Aluminum Alloy 2024,
 Federal Specification QQ-A-250/5, T3,
 0.050 in. thk, 1.1 in. wide, 4.0 in. long

Figure D-64.

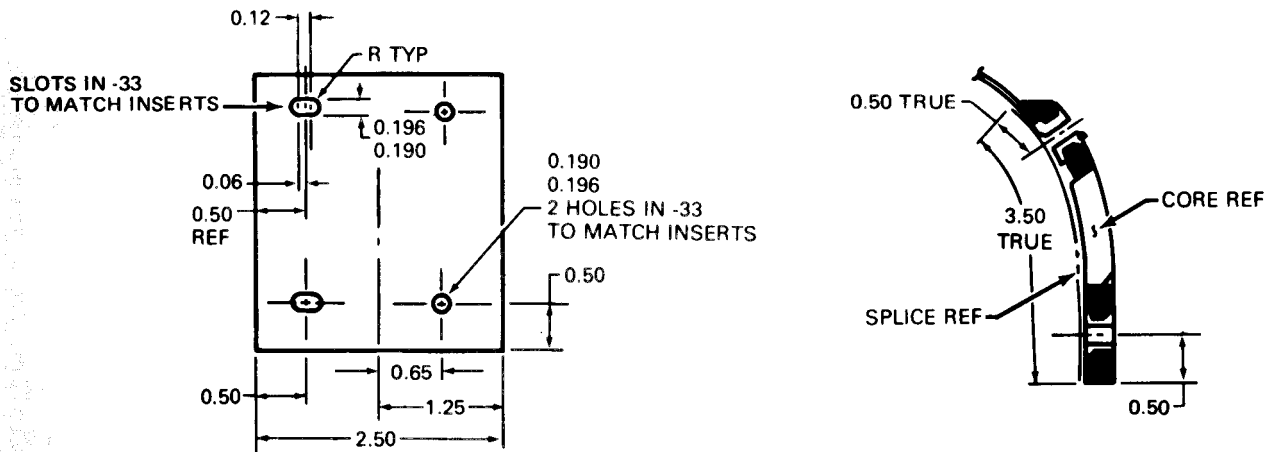


NOTE:

1. Use dimensions from old removed clip to fabricate new part from aluminum alloy stock.

Part Number: 209-033-138-31 CLIP
Fabricate from: NSN 9535-00-167-2279
Material: Aluminum Alloy, 2024,
 Federal Specification QQ-A-250/5,
 0.032 in. thk, 1.8 in. wide, 2.0 in. long

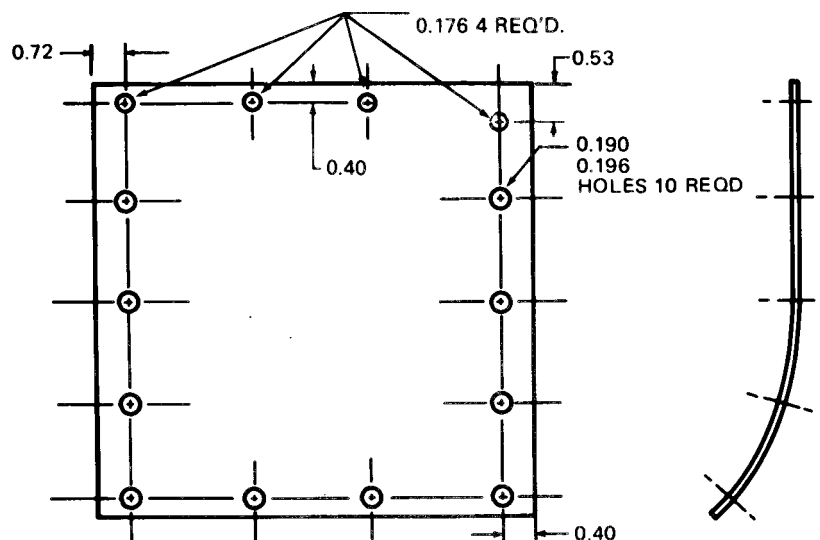
Figure D-65.



Part Number: 209-033-145-33 SPLICE
Fabricate from: NSN 9535-00-232-0565
Material: Aluminum Alloy 2024, Federal Specification QQ-A-250/5, T3, 0.032 in. thk, 3.0 in. wide, 4.0 in. long

Figure D-66

Figure D-66.

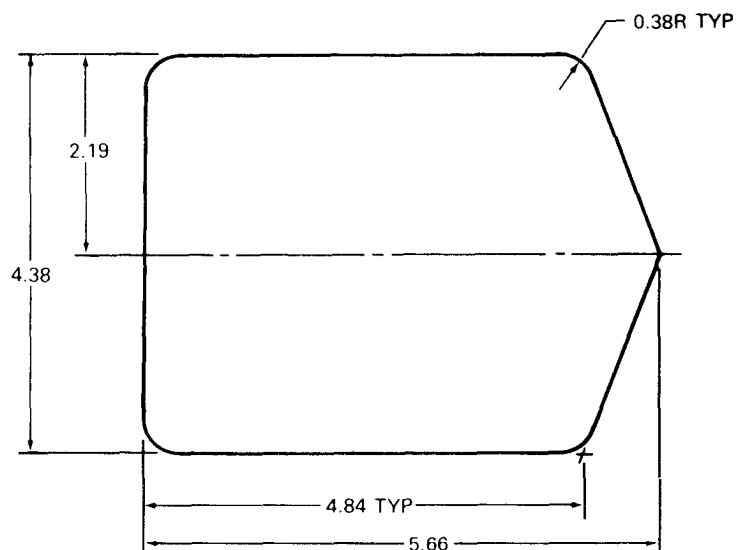


NOTES:

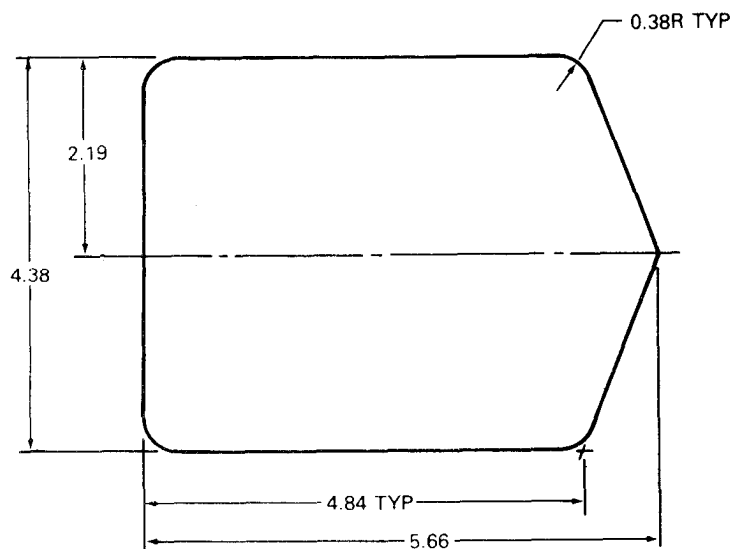
1. Contour new material same as removed and lay out and cut to size same as removed door.
2. Mark mounting holes on new door from old and drill according to this figure.

Part Number: 209-033-150-61 ACCESS DOOR
 209-033-150-62 ACCESS DOOR (OPPOSITE)
Fabricate from: NSN 9535-00-167-2279
Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, T3, 0.032 in. thk, 9.5 in. wide, 10.0 in. long

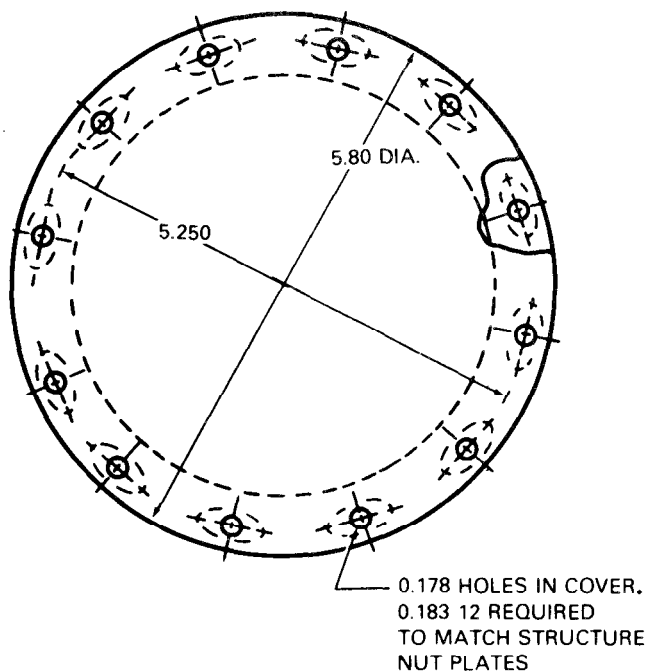
Figure D-67.



Part Number: 209-033-191-15 ACCESS DOOR
 Fabricate from: NSN 9535-00-167-2279
 Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, T3, 0.032 in. thk, 4.9 in. wide, 6.2 in. long
 Figure D-68.



Part Number: 209-033-193-17 DOOR
 209-033-194-17 DOOR
 Fabricate from: NSN 9535-00-167-2279
 Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, T3, 0.032 in. thk, 4.9 in. wide, 6.2 in. long
 Figure D-69.



NOTES:

1. Lay out and trim to size according to dimensions. Drill holes in cover.

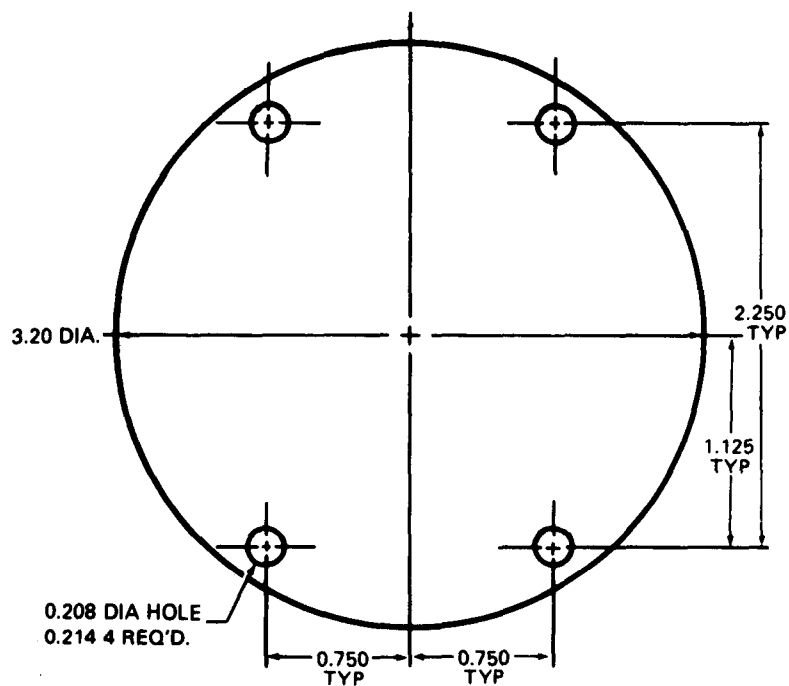
Part Number: 209-033-193-25 COVER
209-033-194-29 COVER

Fabricate from: NSN 9535-00-167-2279

Material: Aluminum Alloy, 2024,
Federal Specification QQ-A-250/5, T3

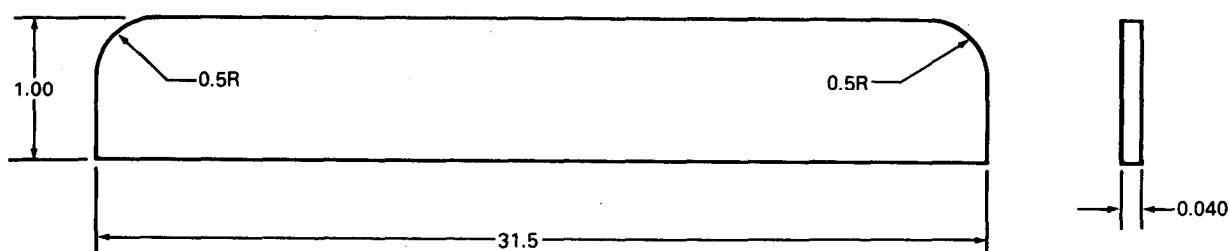
PART NUMBER	MATERIAL SIZE		
	THICK	WIDE	LONG
209-033-193-25	0.032 in.	6.2 in.	6.2 in.
209-033-194-29	0.040 in.	6.2 in.	6.2 in.

Figure D-70.



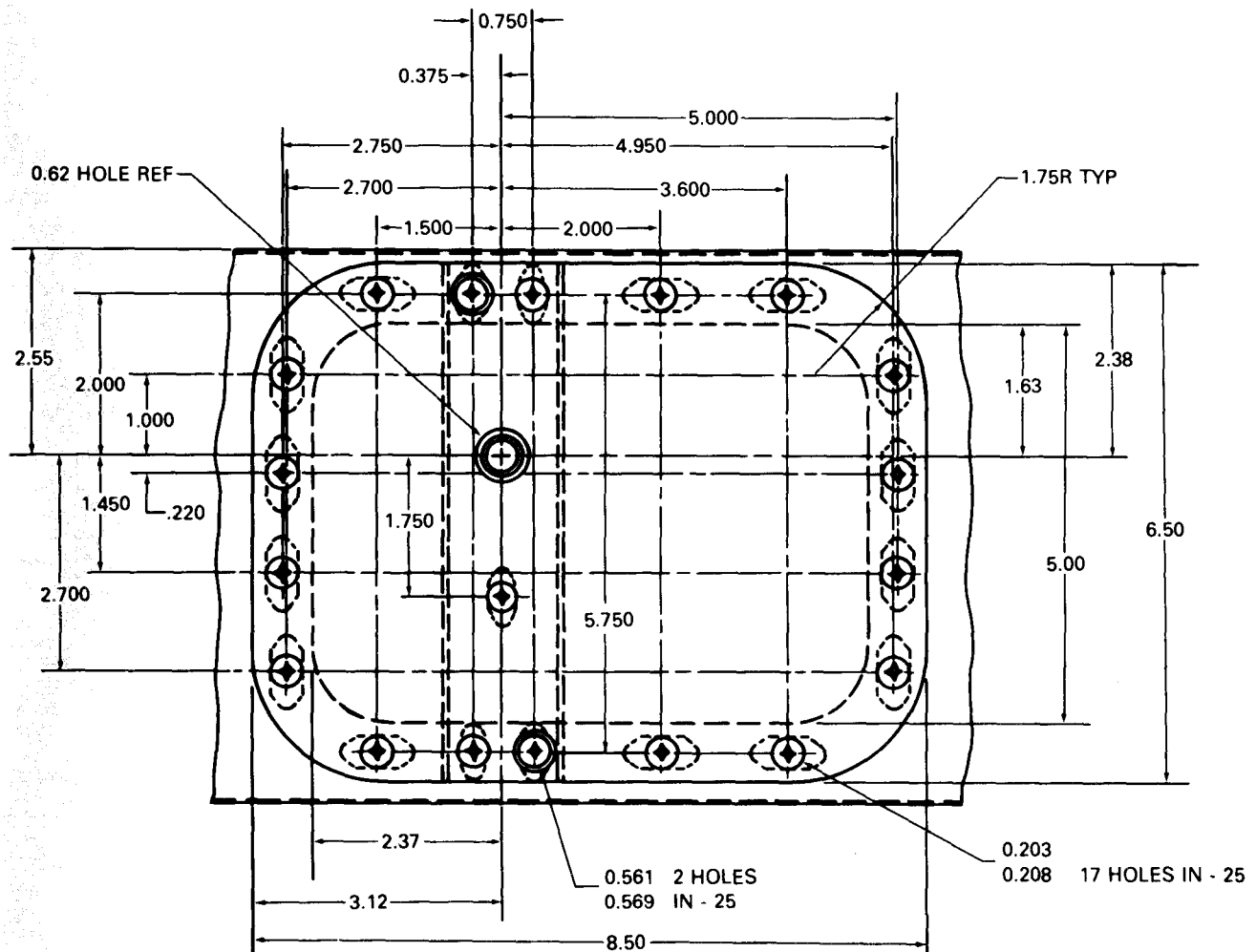
Part Number: 209-033-244-17 ACCESS COVER
Fabricate from: NSN 9535-00-232-0489
Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, 0.040 in thk, 3.9 in wide, 3.9 in long

Figure D-71.



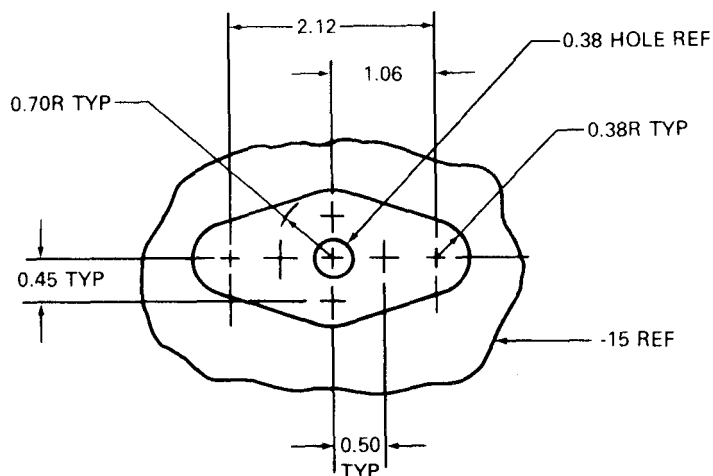
Part Number: 209-033-501-15 SHIELD
Fabricate from: NSN 9535-00-232-0585
Material: Aluminum Alloy 2024, Federal Specification QQ-A-250/5, 0.040 in thk, 1.0 in wide, 31.5 in long

Figure D-72.



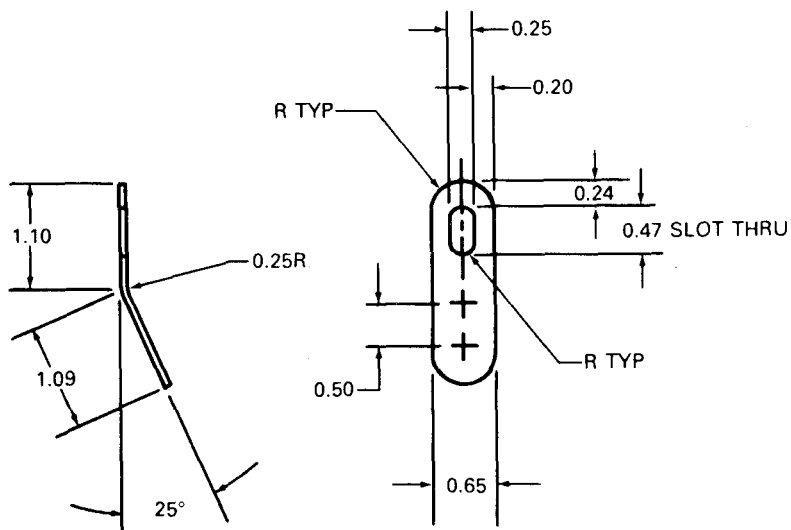
Part Number: 209-033-502-25 DOOR
Fabricate from: NSN 9535-00-232-0569
Material: Aluminum Alloy 2024, Federal
Specifications QQ-A-250/5, 0.050 in thk,
7.0 in wide, 9.0 in long

Figure D-73.



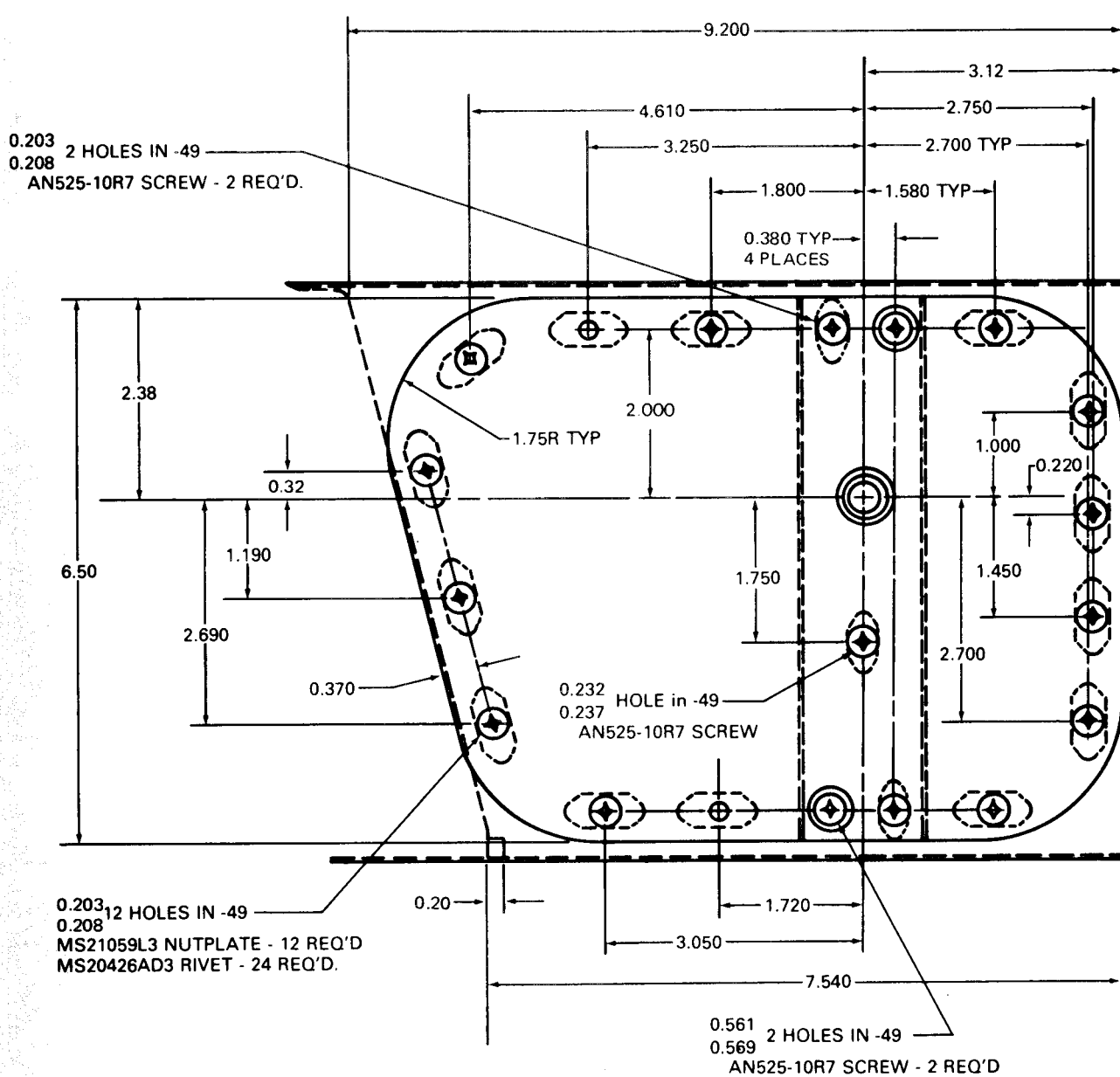
Part Number: 209-033-502-27 DOUBLER
 209-033-503-51 DOUBLER
 Fabricate from: NSN 9535-00-232-0569
 Material: Aluminum Alloy, Federal
 Specification QQ-A-250/5, 0.050 in thk,
 2.0 in wide, 3.4 in long

Figure D-74.



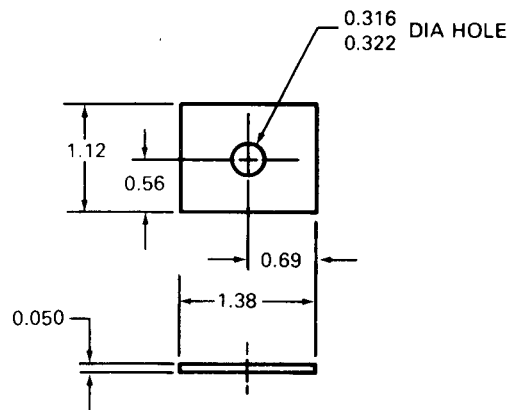
Part Number: 209-033-502-29 CLIP
 209-033-503-53 CLIP
 Fabricate from: NSN 9535-00-232-0378
 Material: Aluminum Alloy, 2024, Federal
 Specification QQ-A-250/5, 0.063 in thk,
 1.12 in wide, 3.0 in long.

Figure D-75.



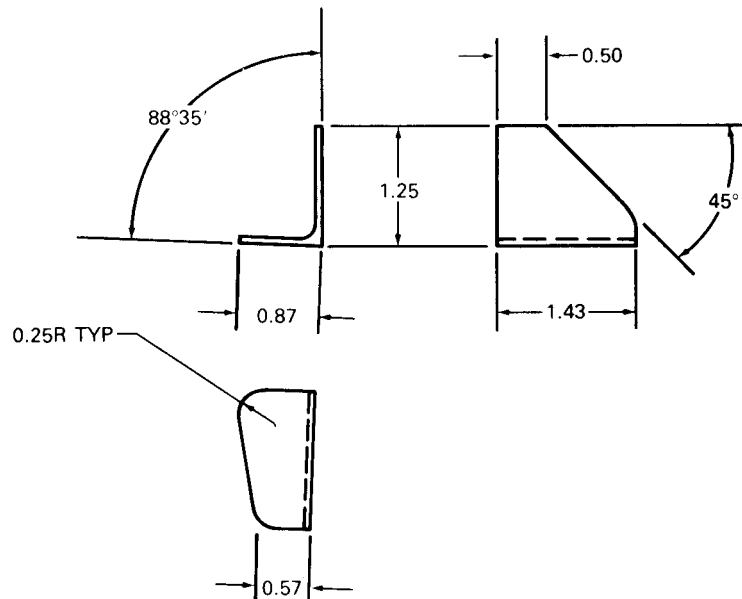
Part Number: 209-033-503-49 DOOR
Fabricate from: NSN 9535-00-232-0569
Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, 0.050 in thk, 7.0 in wide, 9.2 in long

Figure D-76.



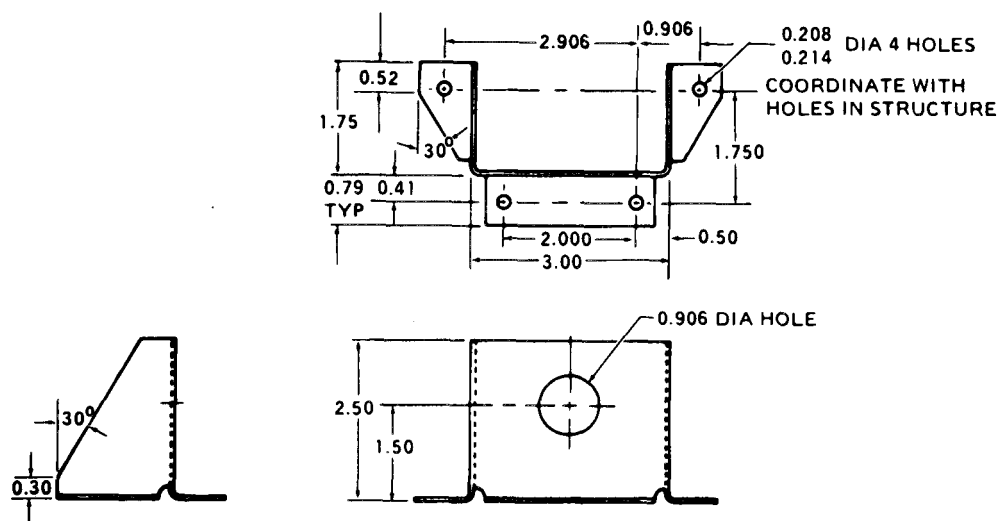
Part Number: 209-033-506-19 DOUBLER
 Fabricate from: NSN 9535-00-249-5809
 Material: Aluminum Alloy, 7075, Federal Specification QQ-A-250/13, 0.050 in thk, 1.5 in wide, 1.7 in long

Figure D-77.



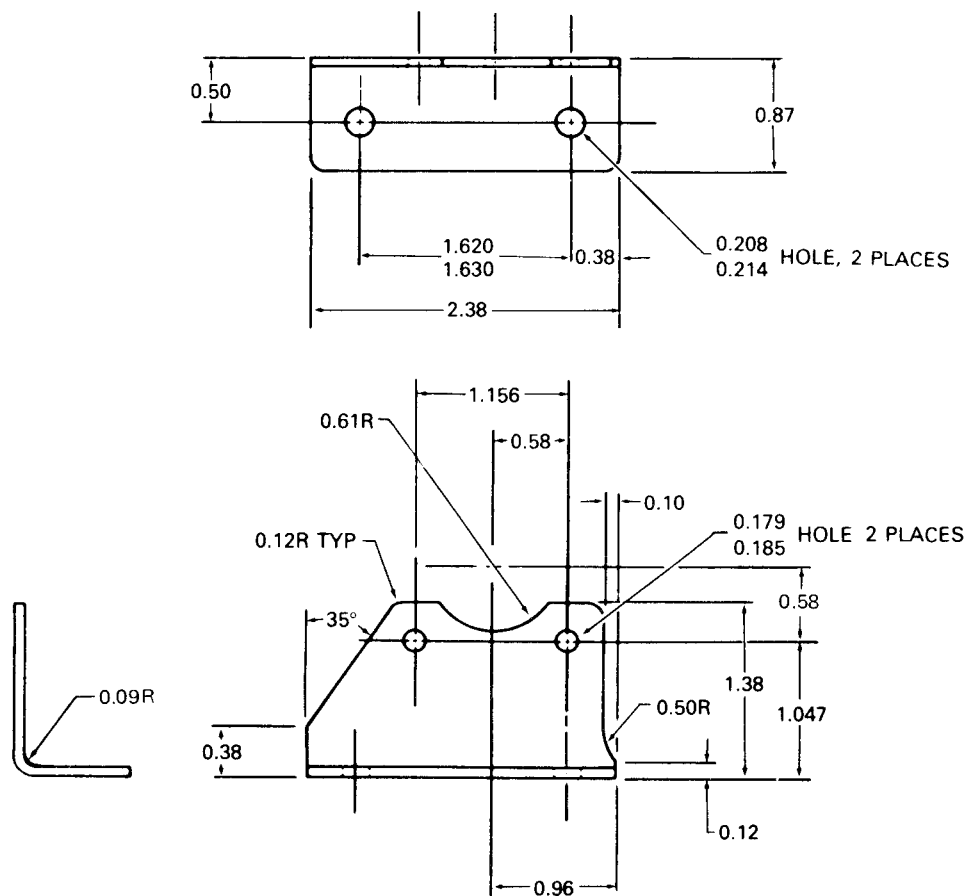
Part Number: 209-033-524-17 BRACKET ANGLE
 Fabricate from: NSN 9540-00-185-3671
 Material: Structural Angle Aluminum, 7075, Federal Specification QQ-A-200/3, 0.063 in thk.

Figure D-78.



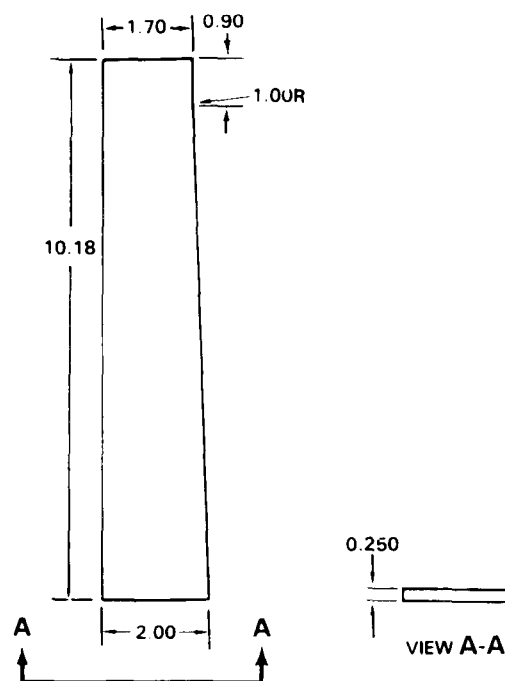
Part Number: 209-040-210-1 BRACKET
Fabricate from: NSN 9535-00-167-2280
Material: Aluminum Alloy, 2024, Federal Specification, QQ-A-250/5, 0.040 in thk, 3.9 in wide, 7.0 in long.

Figure D-79.



Part Number: 209-060-527-1 BRACKET
Fabricate from: NSN 9535-00-232-0503
Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, 0.050 in thk, 2.6 in wide, 2.6 in long.

Figure D-80.



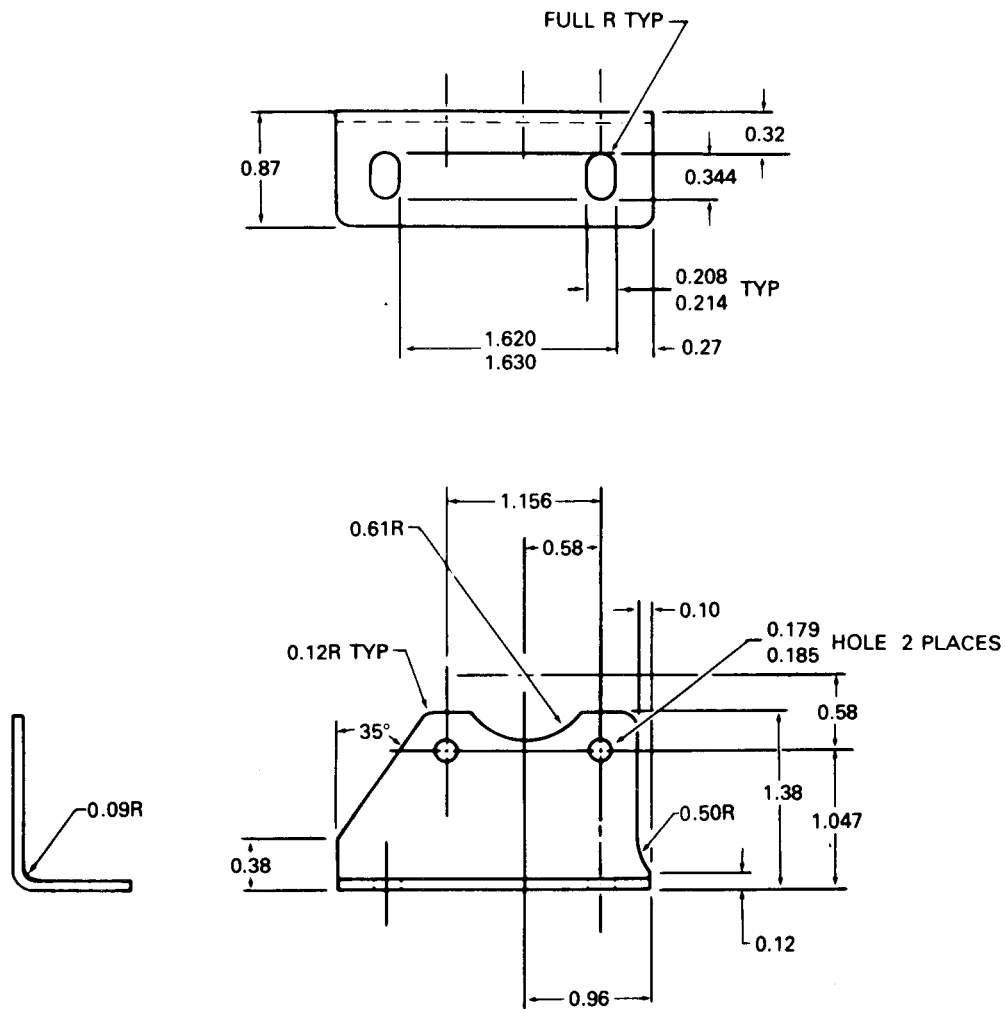
Part Number: 209-060-257-109 Pad

Fabricate From: NSN 9320-00-618-9380

Material: Rubber, MIL-R-6130, Type II, Grade A,
Soft, 0.250 in. thk, 2.00 in. wide,
10.20 in. long

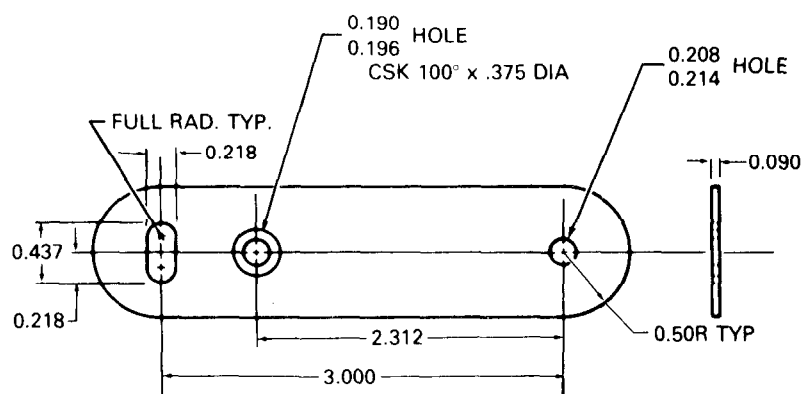
209060 164

Figure D-80.1. (After Incorporation of MWO 55-1520-236-50-12)



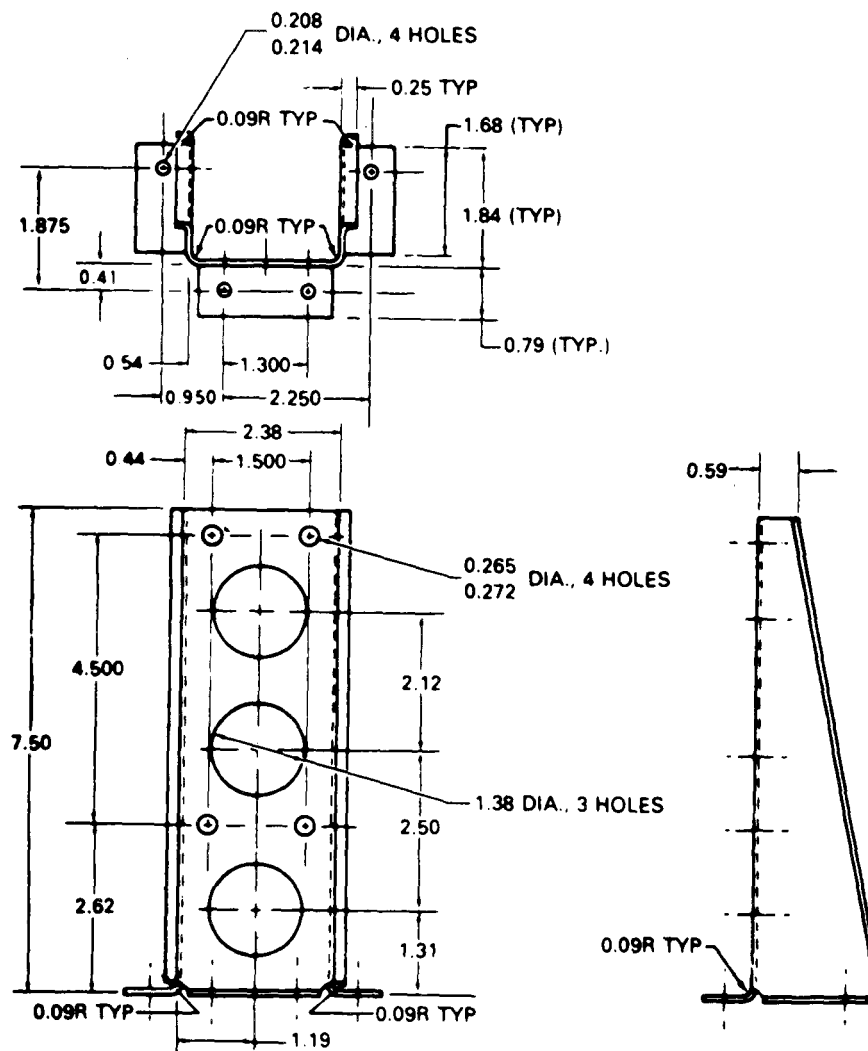
Part Number: 209-060-527-3 BRACKET
Fabricate from: NSN 9535-00-232-0503
Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, 0.050 in thk, 2.6 in wide, 2.6 in long.

Figure D-81.



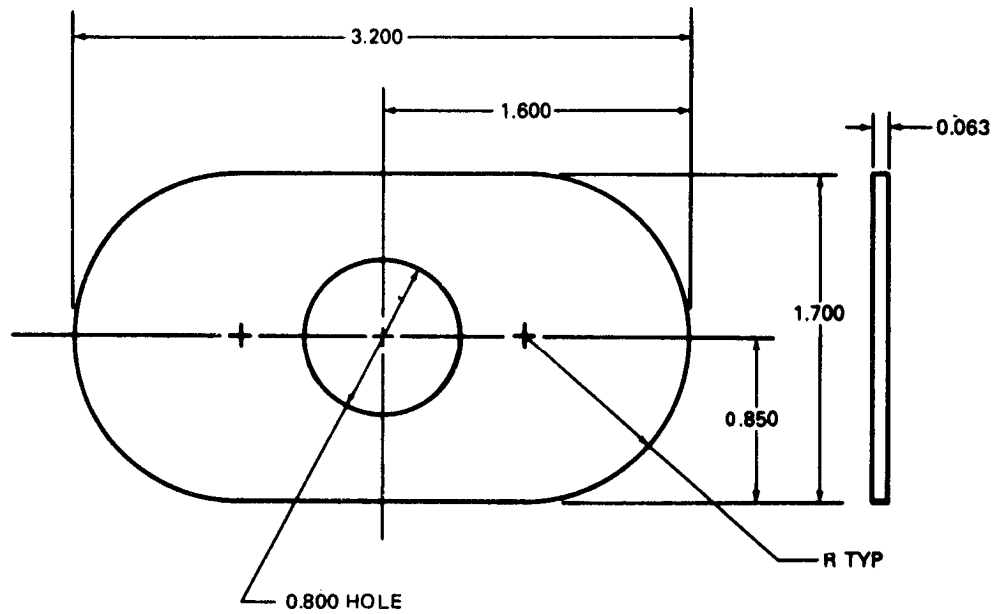
Part Number: 209-060-588-1 PLATE
 Fabricate from: NSN 9535-00-232-0405
 Material: Aluminum Alloy 2024, Federal Specification, QQ-A-250/5, 0.090 in thk, 1.5 in wide, 4.5 in long

Figure D-82.



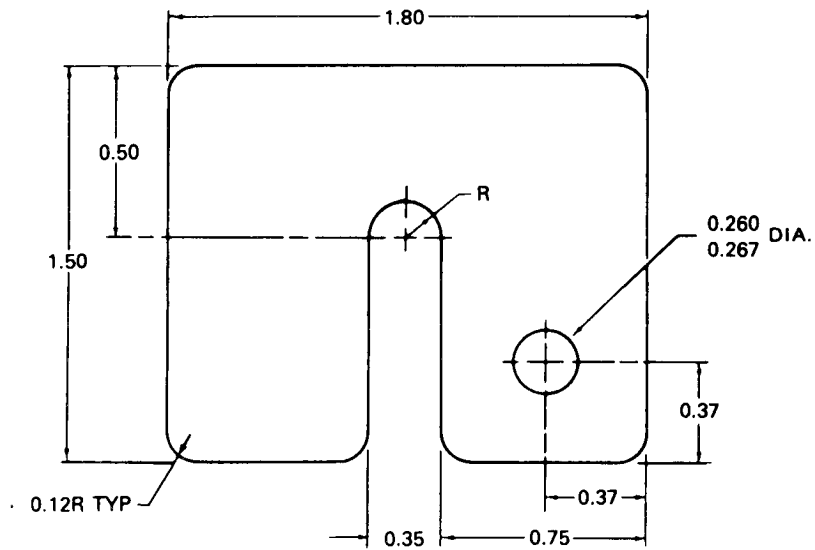
Part Number: 209-060-606-101 BRACKET
Fabricate from: NSN 9515-00-878-4332
Material: MIL-S-5059, Comp 301,
 1/4 Hard, 0.050 in thick,
 7.0 in wide, 8.5 in long

Figure D-83.



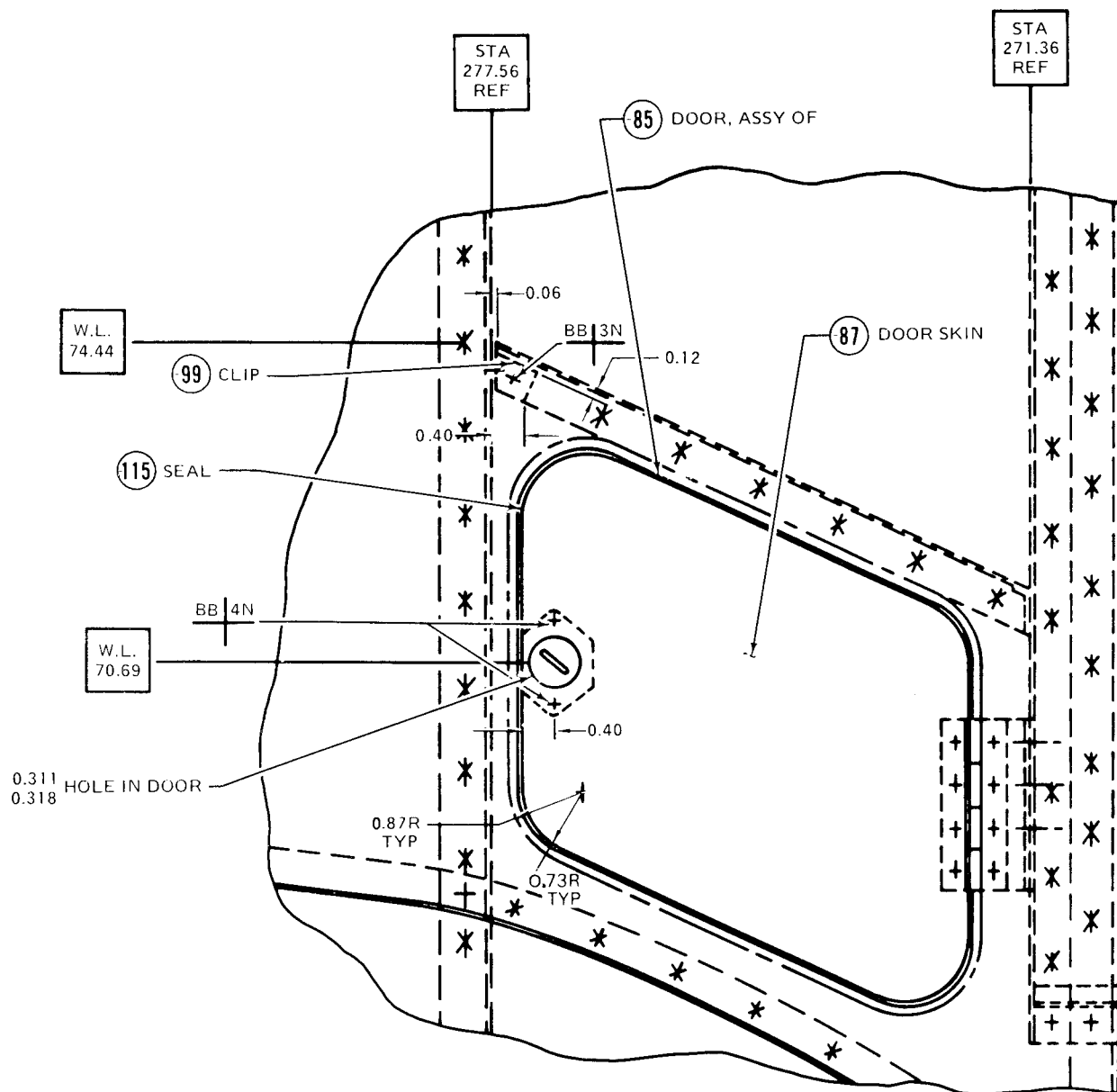
Part Number: 209-060-681-1 COVER
Fabricate from: NSN 9535-00-088-6599
Material: Aluminum Alloy, 7075, Federal
 Specification QQ-A-250/13, 0.063 in thk,
 2.2 in wide, 3.7 in long

Figure D-84.



Part Number: 209-060-802-1 SPACER
Fabricate from: NSN 9535-00-232-0398
Material: Aluminum Alloy, 2024, Federal Specification, QQ-A-250/5, 0.063 in thk, 2.0 in wide, 2.2 in long

Figure D-85.



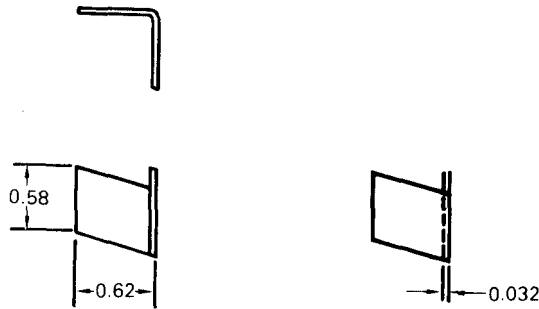
Part Number: 209-060-810-85 DOOR ASSY.
 209-060-810-115 SEAL
 Fabricate from: See Sheet 2
 Material: See Sheet 2

Figure D-86 (Sheet 1 of 2)

NOTES:

1. Part number 209-060-810-85 door assembly consist of the following:
 - 1 — 209-060-810-87 door skin
 - 1 — 209-060-810-101 hinge half
 - 1 — 209-060-810-115 seal
 - 1 — A5T14 fastener
2. Fabricate 209-060-810-85 door from aluminum alloy 2024, Federal Specification QQ-A-250/5, 0.025 inch thick, 5.0 inch wide, 7.0 inch long (NSN 9535-00-167-2278).
3. Lay out and trim new panel to match removed door as shown in sheet 1 of this figure.
4. Part number 209-060-810-101 hinge half maybe fabricated from MS20257HP2-7200 hinge stock.
5. MS20257HP2-7200 hinge stock is as follows: leaf butt hinge aluminum alloy, anodized 0.531 inch wide, 0.040 inch thick (NSN 5340-00-993-1461).
6. Cut hinge stock to a required length of 2.06 inches,
7. Part number 209-060-810-115 may be fabricated from Apex 6-63-5000 material length 7.5 inches — width 5 inches — thickness 0.032 inches. Trim to fit.
8. Purchase material from Apex Rubber Company, 3574 Ruth St., Philadelphia, Penna., Code Ident. 99751 (NSN 9320-00-254-6946).
9. Part number A5T14 fastener may be purchased from Dzus Fastener Company, Babylon, N.Y., Code Ident. 72749.
10. Assemble the above part to make a 209-060-810-85 door assembly.

Figure D-86 (Sheet 2 of 2)

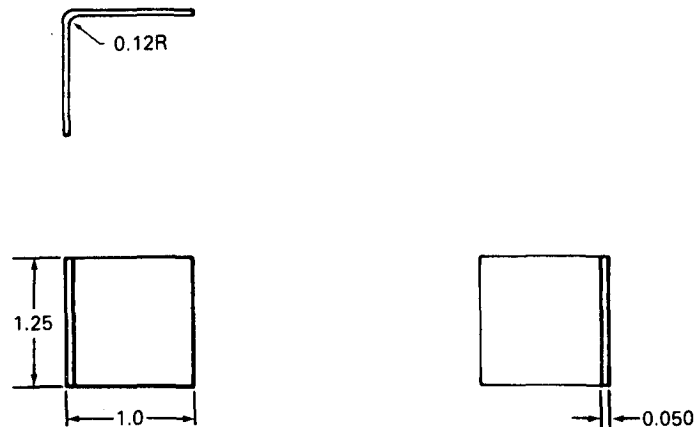


NOTES:

1. Lay out, bend, to match the existing clips as all three places are not the same.
2. Match drill rivet holes per the removed clips.

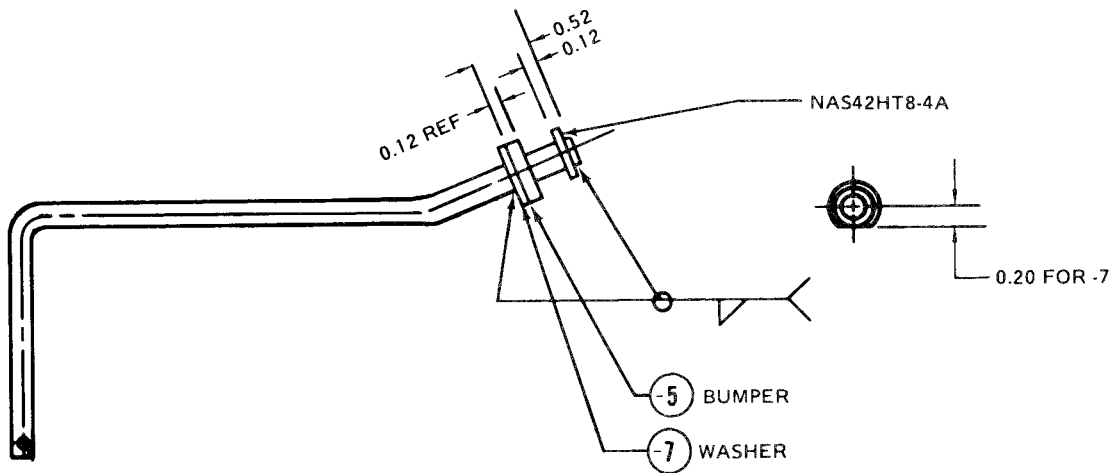
Part Number: 209-060-810-127 CLIP
 209-050-810-129 CLIP
 209-060-810-130 CLIP
 Fabricate from: NSN 9535-00-167-2279
 Material: Aluminum Alloy, 2024, Federal
 Specification QQ-A-250/5, 0.032 inch thick
 1.0 inch wide, 1.7 inch long

Figure D-87.



Part Number: 209-060-811-75 CLIP
 Fabricate from: NSN 9535-00-232-0501
 Material: Aluminum Alloy, 2024, Federal
 Specification QQ-A-250/5,
 0.050 in thk, 1.5 in wide, 2.5 in long

Figure D-88.

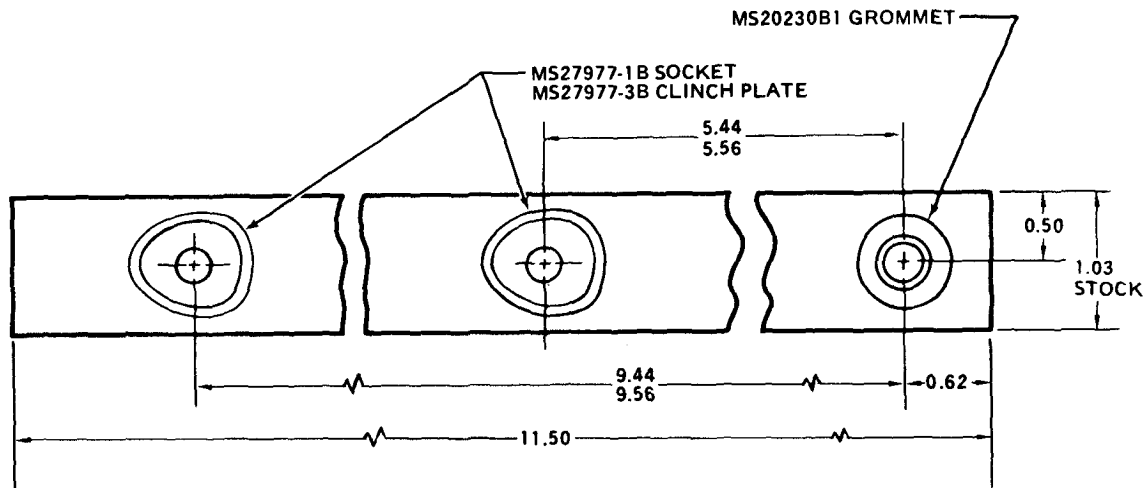


Part Number: 209-060-894-5 STANDOFF ASSEMBLY BUMPER

Fabricate from: NSN 4720-00-933-1240

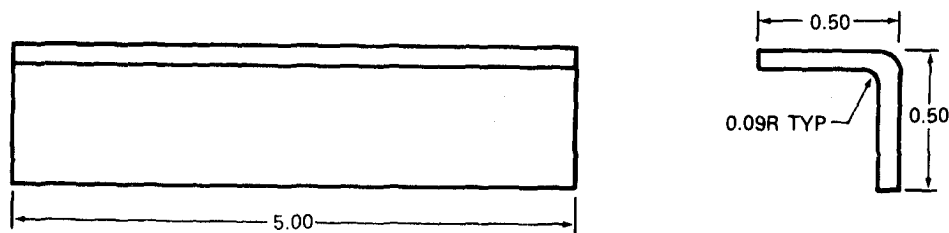
Material: Synthetic Rubber, Federal Specification
MIL-R-6855, Class II, Grade 40,
0.250 inch OD, 0.12 inch wall thickness,
0.12 inch long.

Figure D-89



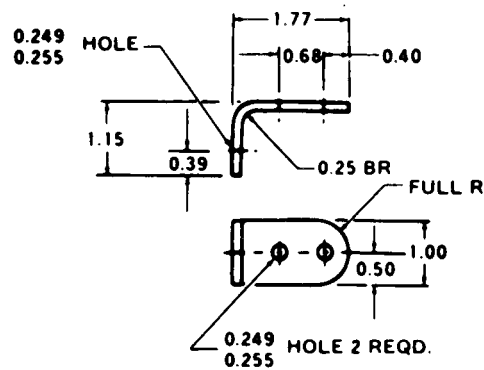
Part Number: 209-060-899-5 STRAP ASSY
Fabricate from: NSN 8305-00-267-3009
Material: Webbing, nylon, Federal Specification MIL-W-4088 Type XVII Olive Drab 1.0 in. wide or J.M. 106-R 2 Ply Woven Nylon Neoprene Impregnated Sheet Color Black 8 Inches Long x 1.03 wide x stock thickness.

Figure D-90.



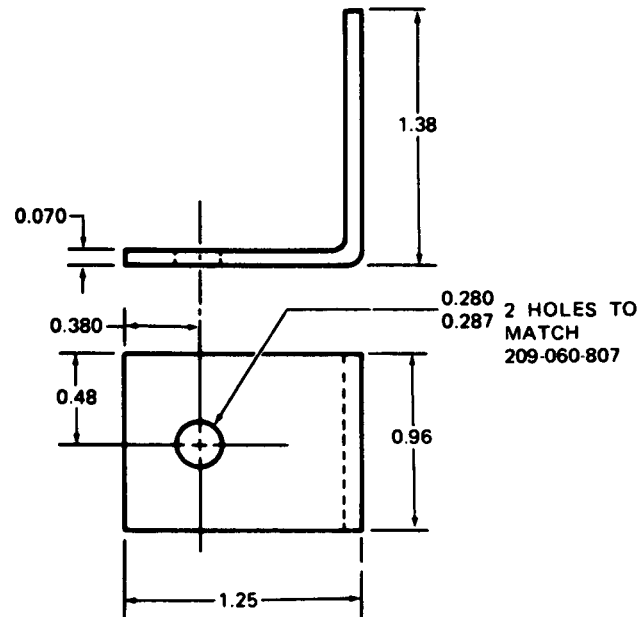
Part Number: 209-060-900-123 SEAL RETAINER (SHOWN)
 209-060-900-124 SEAL RETAINER (OPPOSITE)
Fabricate from: NSN 9535-00-167-2248
Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, 0.032 in thk, 2.0 in wide, 5.0 in long

Figure D-91.



Part Number: 209-060-900-83 CLIP
Fabricate from: NSN 9535-00-236-7075
Material: Aluminum Alloy, 7075, Federal Specification QQ-A-250/13, 0.125 in thk, 1.4 in wide, 3.5 in long

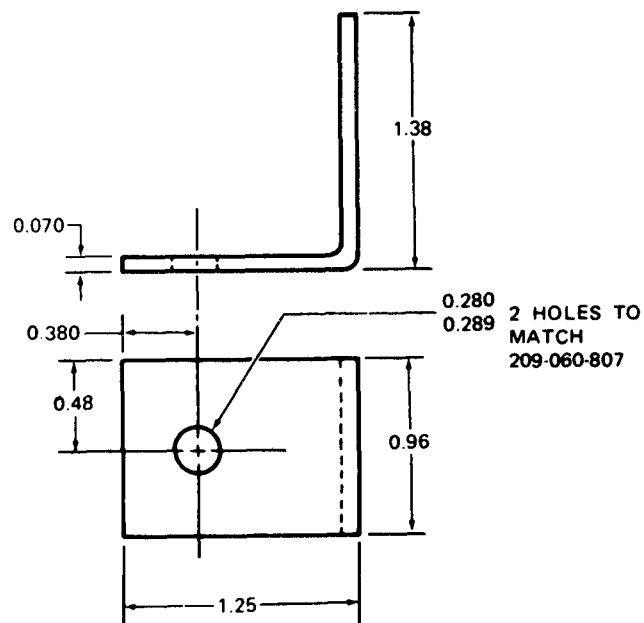
Figure D-92.



Part Number: 209-060-902-57 CLIP SHOWN
 209-060-902-58 CLIP OPPOSITE
Fabricate from: NSN 9535-00-236-7083
 NSN 9535-00-232-7541
Material: Aluminum Alloy, 7075, Federal Specification QQ-A-250/13, T-O, 0.070 in thk 1.5 in wide 3.1 in long



Figure D-93

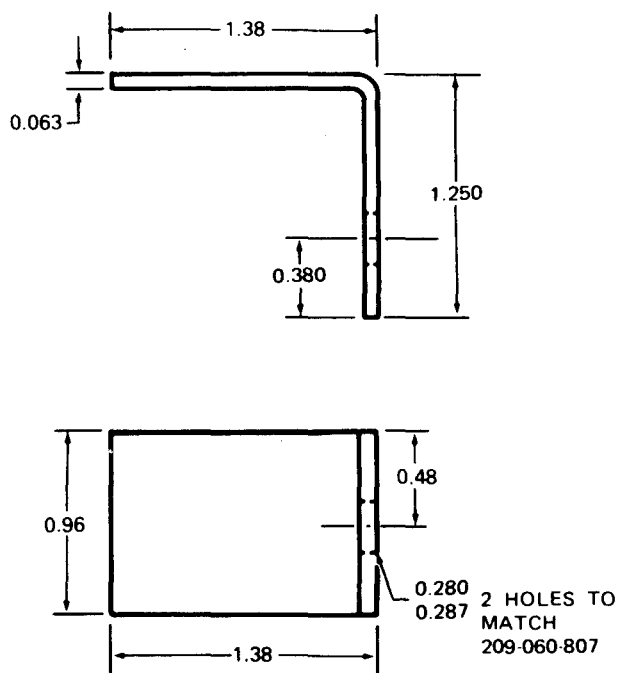


Part Number: 209-060-902-59 CLIP (Shown)
209-060-902-60 CLIP (Opposite)

Fabricate from: NSN 9535-00-232-7541

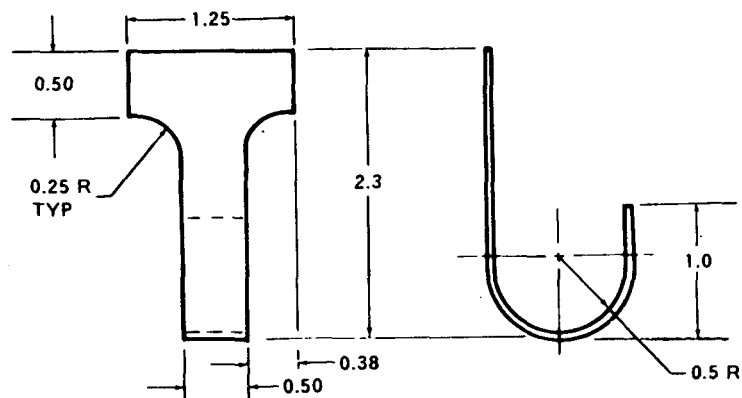
Material: Aluminum Alloy, 7075, Temp. 6 Federal
Specification QQ-A-250/13, 0.070 in. thick,
1.5 in. thick, 4.9 in. long

Figure D-94.



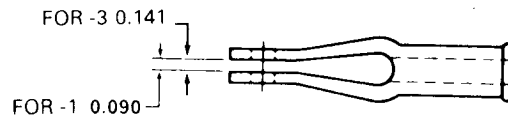
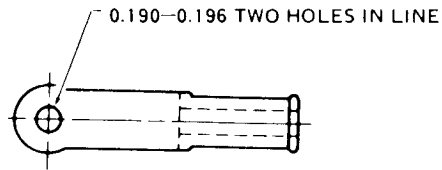
Part Number: 209-060-902-61 CLIP SHOWN
 209-060-902-62 CLIP OPPOSITE
Fabricate from: NSN 9535-00-085-4279
Material: Aluminum Alloy, 7075, Federal Specification, QQ-A-250/13, 0.063 in thk, 1.6 in wide, 2.0 in long

Figure D-95.



Part Number: 209-070-119-1 HOOK
Fabricate from: NSN 9515-00-235-7609
Material: Steel Cres, Federal Specification, MIL-S-5059 Comp 301, Half Hard, 0.050 in thk, 1.8 in wide, 4.7 in long

Figure D-96.

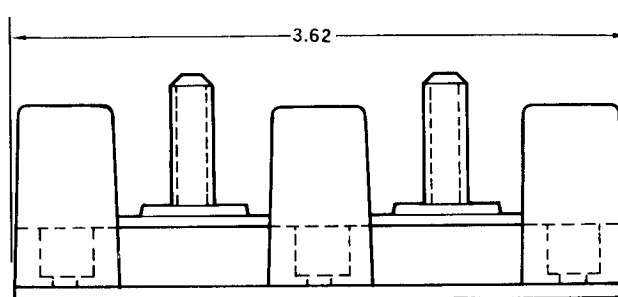


NOTES:

1. Part Number 209-070-161-3 may be the same as MS27795-4 clevis rod end with open end distance of 0.144 inch gap.
2. Part Number 209-070-161-1 may be the same as MS27795-4 clevis rod end except the open end distance is 0.090 inch gap.

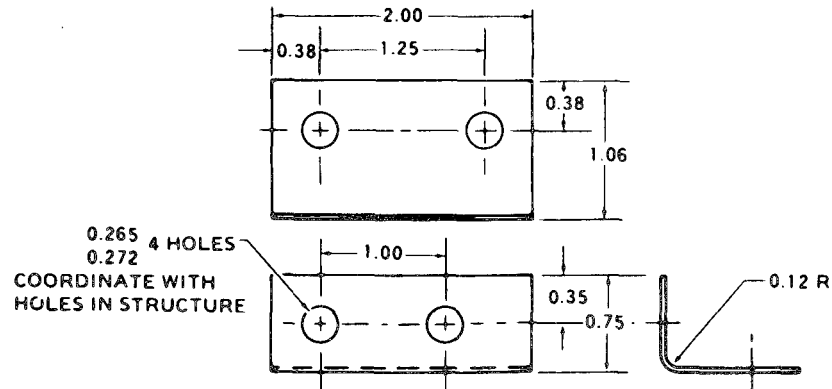
Part Number: 209-070-161-1 ROD END CLEVIS
 209-070-161-3 ROD END CLEVIS
 Fabricate from: NSN 5340-00-838-1591
 Material: Carbon Steel Material for
 MS27795-4 Rod End

Figure D-97.
 Figure D-97.



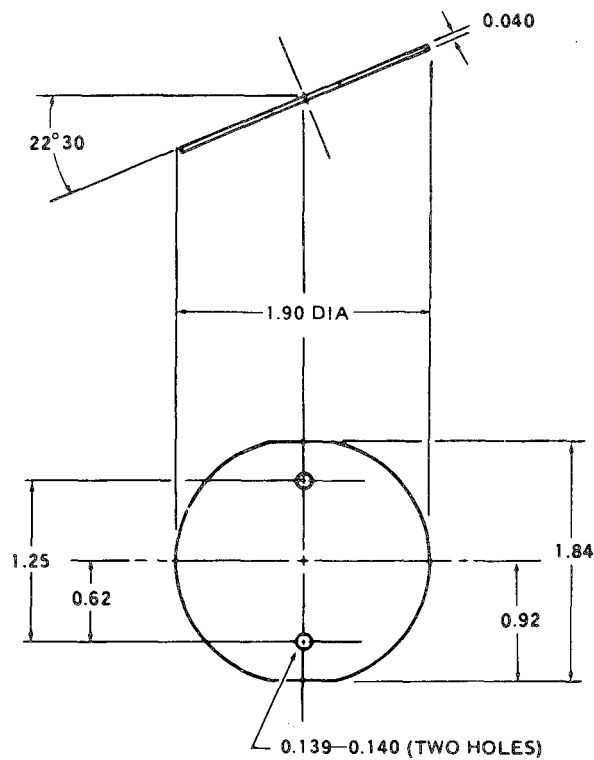
Part Number: MS27212-5-2 TERMINAL
 Fabricate from: NSN 5940-00-950-7781
 Material: MS27212-5-8

Figure D-98



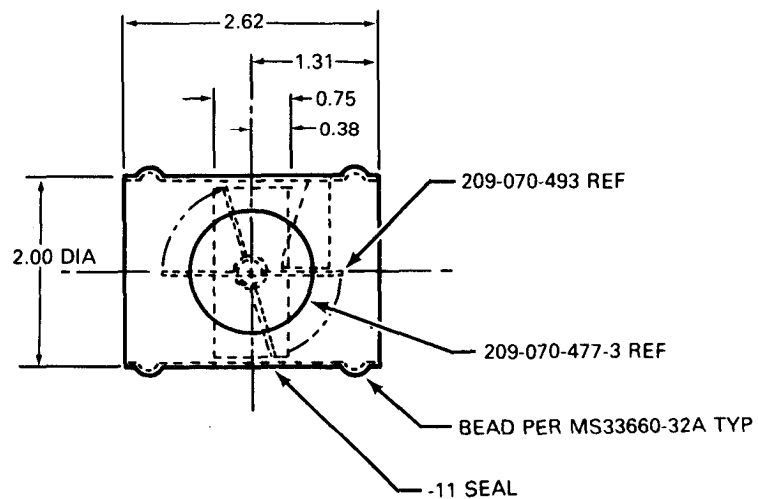
Part Number: 209-070-423-5 SUPPORT
Fabricate from: NSN 9535-00-167-2279
Material: Aluminum Alloy 2024,
 Federal Specification QQ-A-250/5,
 0.032 in. thk, 2.3 in. wide, 2.5 in. long

Figure D-99.



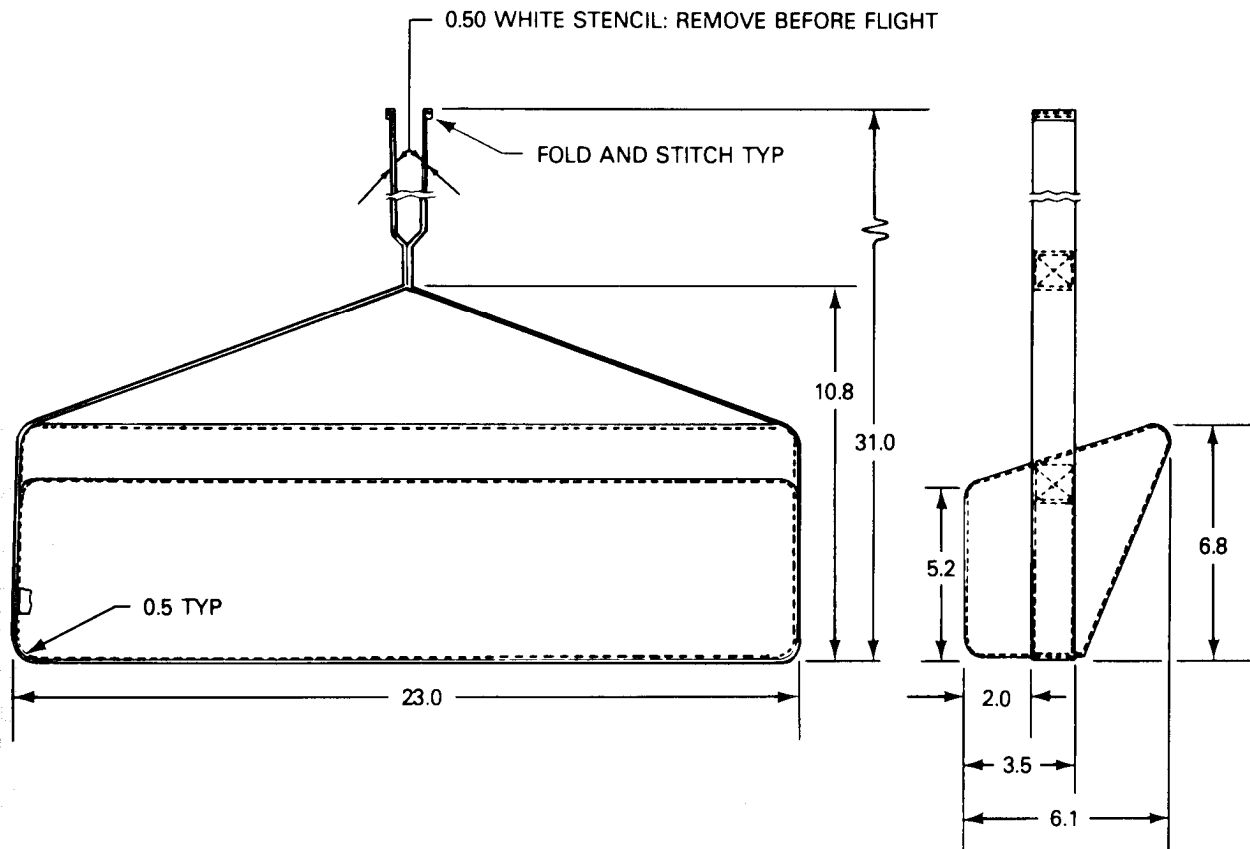
Part Number: 209-070-478-1 FLAP
Fabricate from: NSN 9535-00-167-2280
Material: Aluminum Alloy, 2024, Federal
 Specification QQ-A-250/5,
 0.040 in thk, 2.4 in wide, 2.4 in long

Figure D-100.



Part Number: 209-070-492-11 SEAL
Fabricate from: NSN 9320-00-
Material: Silicon Rubber, Federal Specification
 MIL-R-5847, Class 7A, Grade 43
 0.0625 in thk, 1.0 in wide, 6.3 in long

Figure D-101.



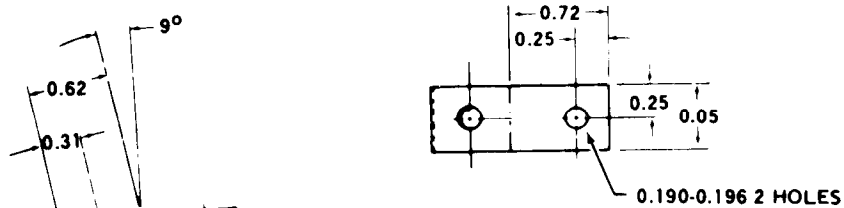
Part Number: 1560-AH1-061-5 SHIELD ASSEMBLY
(FSCM 81996)

Fabricate from: 8135-00-052-9070
8305-00-811-1617
8305-00-003-6179
8310-00-187-3920

Material: Cloth, Duck

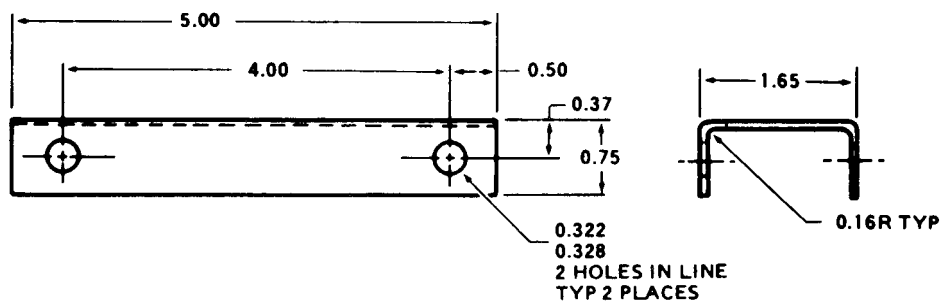
- NOTES:**
1. Shield assembly P/N 1560AH1-061-5 is used in lieu of shield assemblies P/N 209-070-502-1 and P/N 209-070-532-1.
 2. Make all sewing Federal Standard 751, Stitch Type, 301, Seam Type LS-2.
 3. Shield assembly may be purchased from Bell Helicopter, Fort Worth, Texas.

Figure D-102



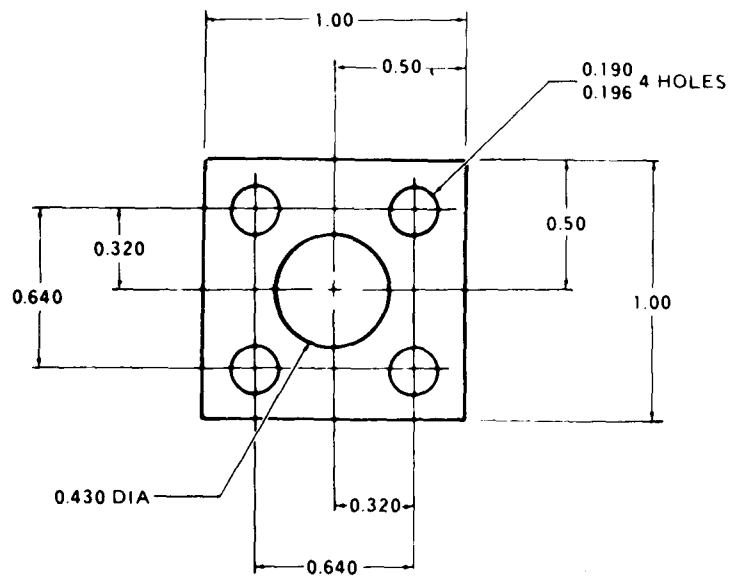
Part Number: 209-070-540-1 SUPPORT
 Fabricate from: NSN 9535-00-232-0378
 Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, 0.063 in thk, 1.0 in wide, 1.9 in long, T3

Figure D-103.



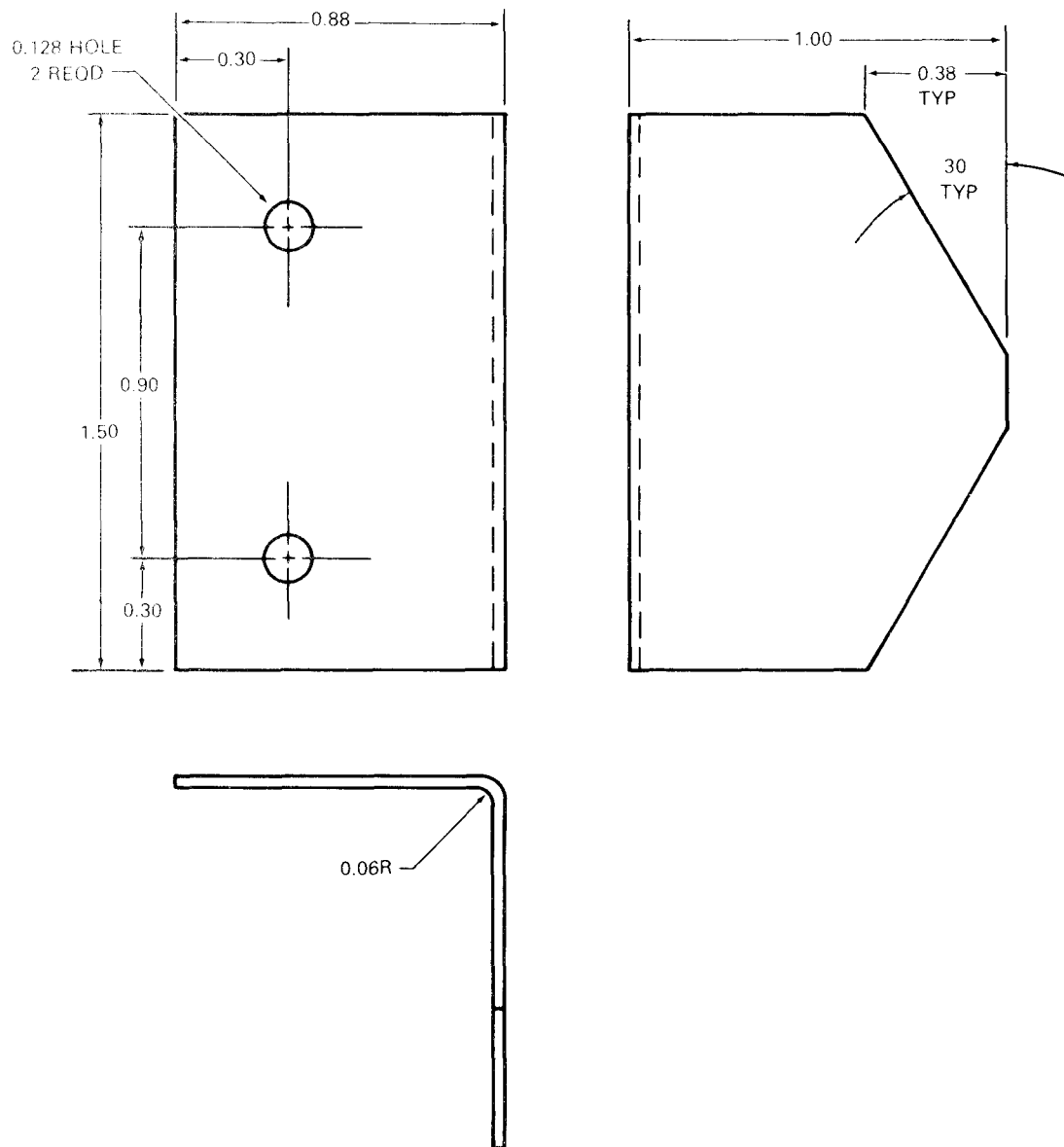
Part Number: 209-070-574-1 BRACKET
 Fabricate from: NSN 9535-00-167-2280
 Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, 0.040 in thk, 3.6 in wide, 5.5 in long

Figure D-104.



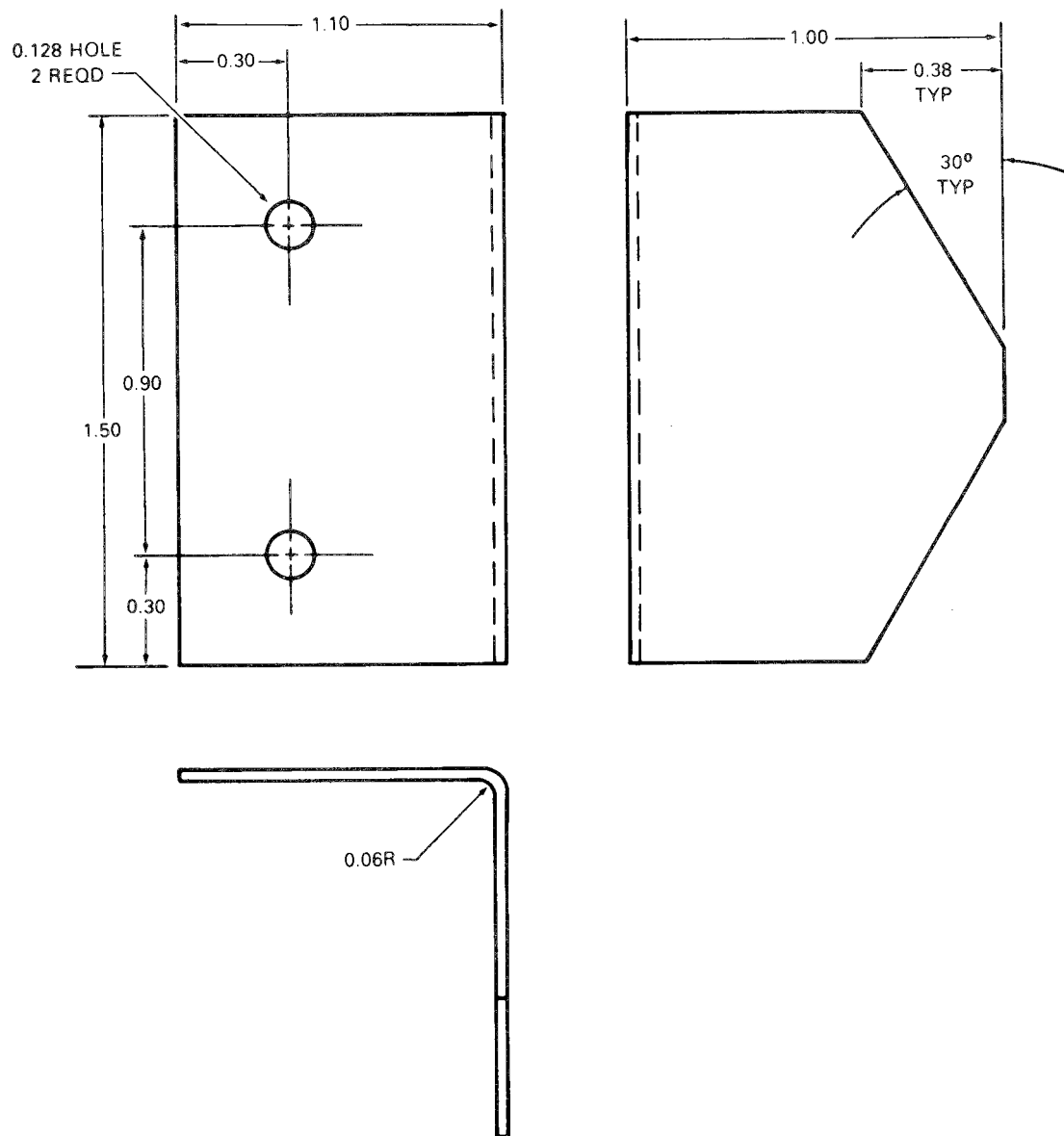
Part Number: 209-070-712-1 PLATE
Fabricate from: NSN 9515-00-683-9294
Material: 4130 Alloy Steel Plate, Federal
 Specification MIL-S-18729, Cond N,
 0.063 in thk, 1.2 in wide, 1.2 in long

Figure D-105.



Part Number: 209-071-022-1 CLIP
 Fabricate from: NSN 9535-00-232-0489
 Material: Aluminum Alloy 2024, Federal
 Specification QQ-A-250/5, 0.032 in thk,
 2.0 in wide, 2.4 in long

Figure D - 106



Part Number: 209-071-022-3 CLIP
Fabricate from: NSN 9535-00-232-0489
Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, 0.032 in thk, 2.0 in wide, 2.6 in long

Figure D-107

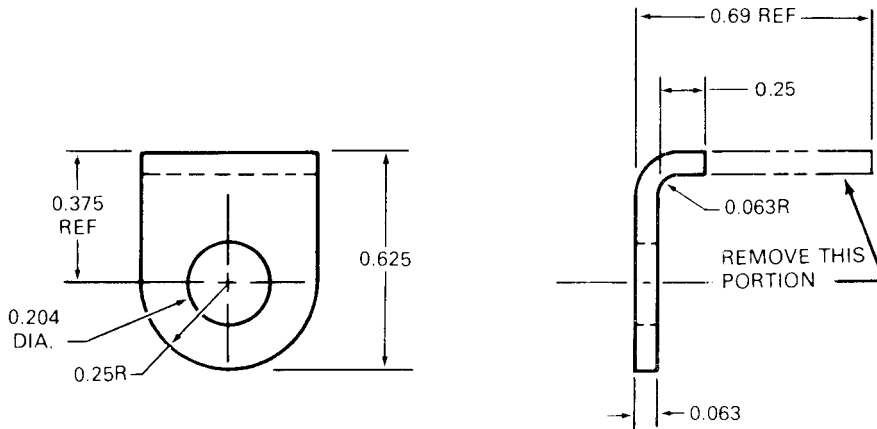


Figure D-108.

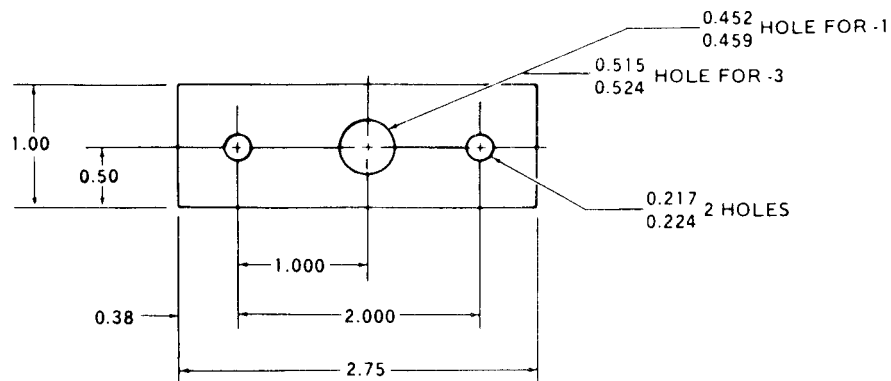
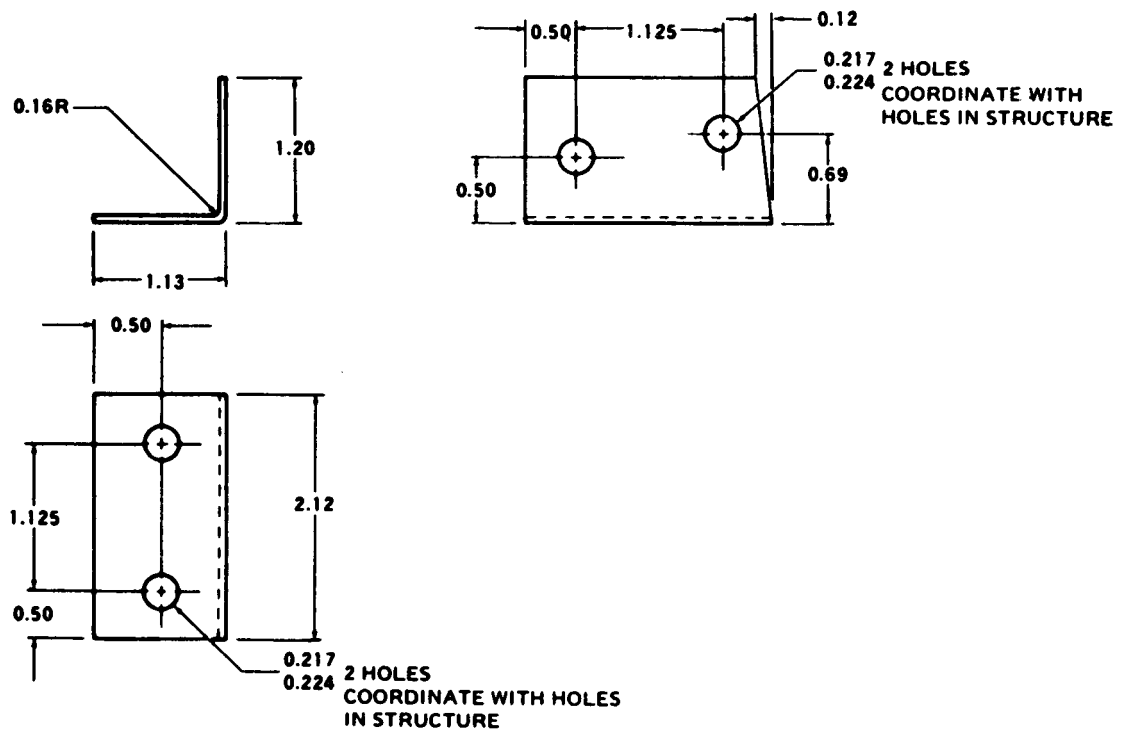
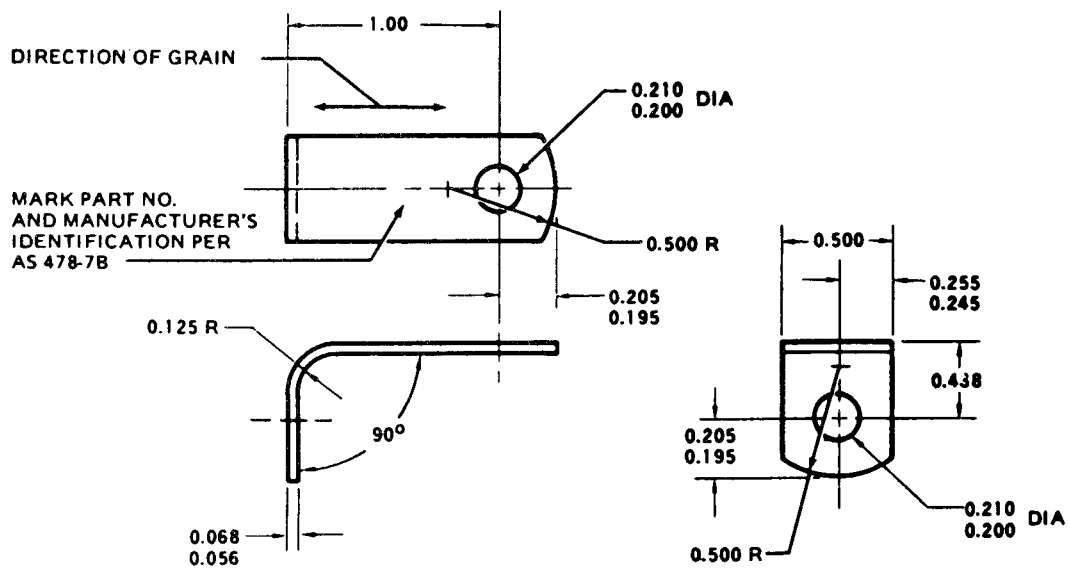


Figure D-109.



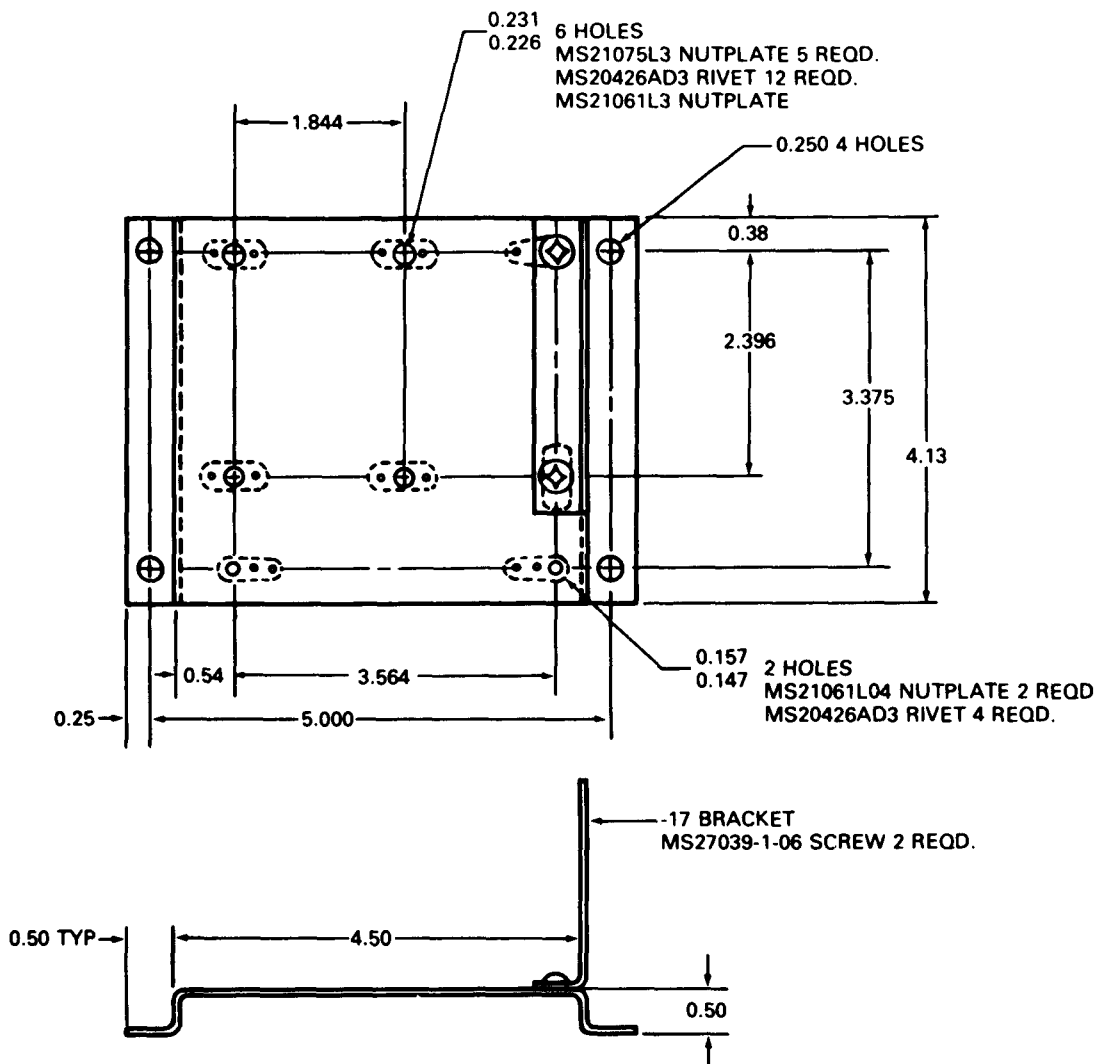
Part Number: 209-076-113-1 BRACKET
Fabricate from: NSN 9535-00-167-2280
Material: Aluminum Alloy, 2024, Federal
 Specification, 0.040 in thk,
 2.6 in wide, 3.1 in long

Figure D-110.



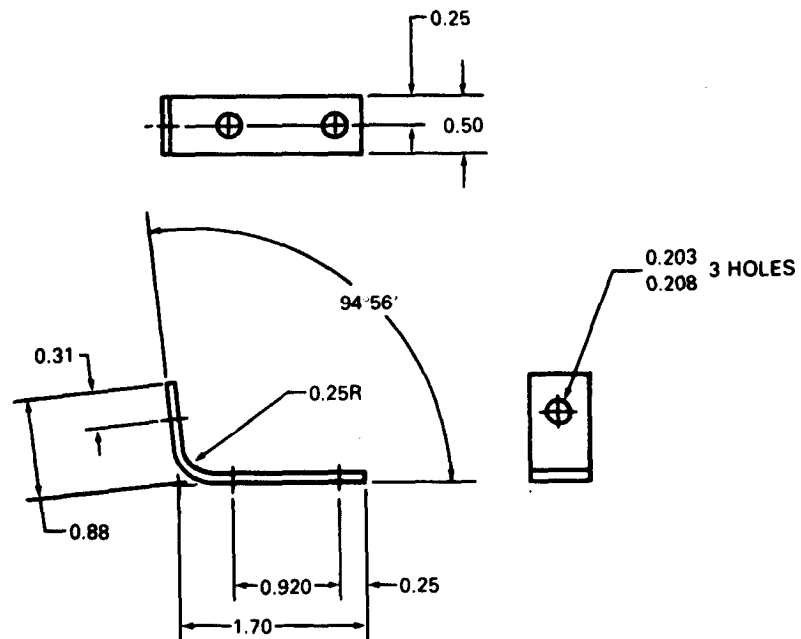
Part Number: MS9592-014 ANGLE BRACKET
 Fabricate from: NSN 9515-00-006-6709
 Material: AMS5510 Corrosion Resistant Steel

Figure D-111.



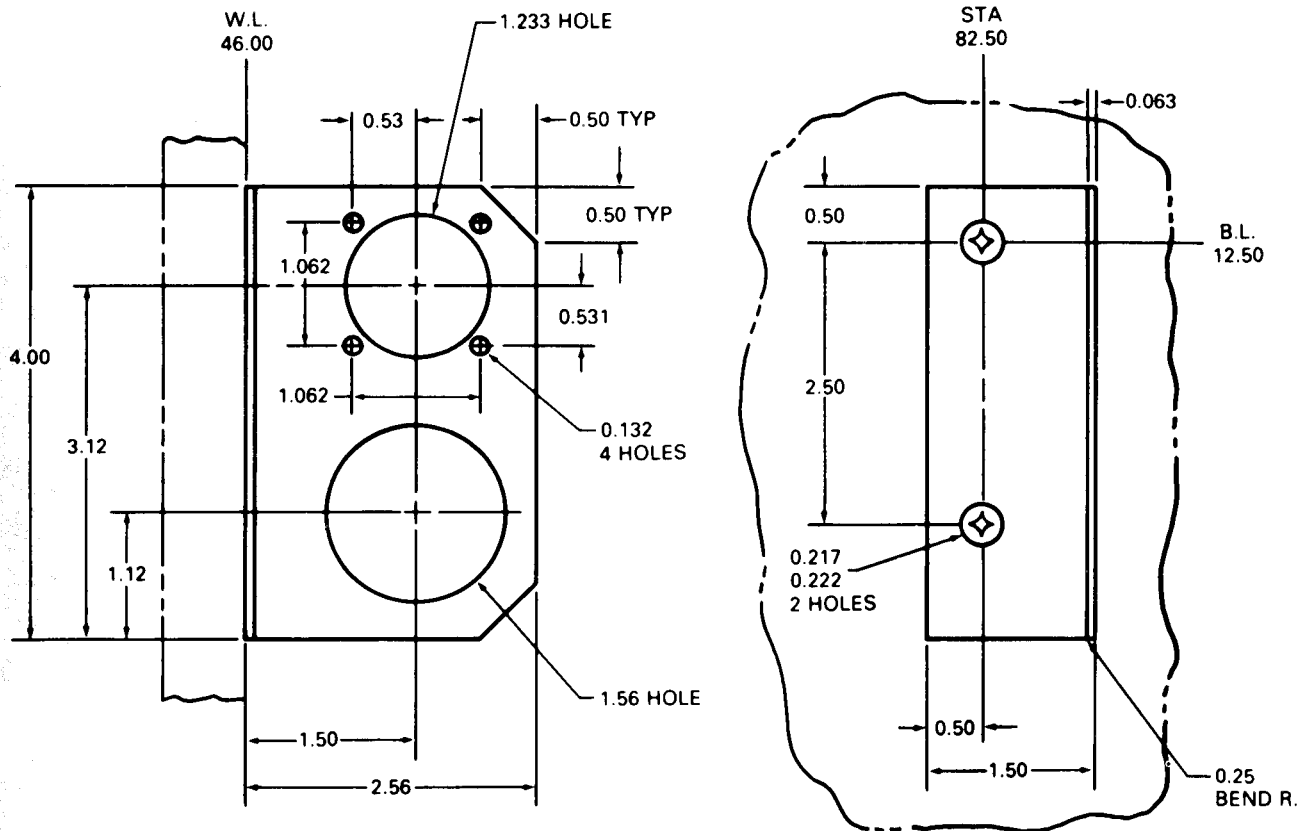
Part Number: 209-075-749-13 BRACKET ASSY.
Fabricate from: NSN 9535-00-232-7593
Material: Aluminum Alloy, 5052, Federal Specification QQ-A-250/8, 0.063 in. thick, TO

Figure D-112.



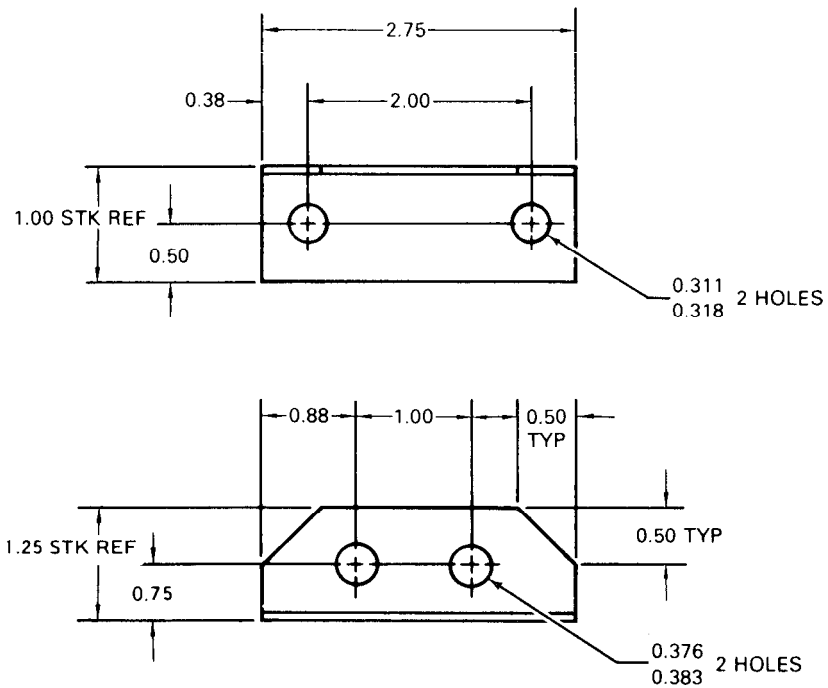
Part Number: 209-075-650-1 BRACKET
Fabricate from: NSN 9535-00-232-0378
Material: Aluminum Alloy, 2024, Federal Specification, QQ-A-250/5, 0.063 in thk, 1.0 in wide, 3.0 in long

Figure D-113.



Part Number: 209-075-543-3 SUPPORT
Fabricate from: NSN 9535-00-232-0378
Material: Aluminum Alloy 2024, Federal Specification QQ-A-250/5, 0.063 in thk, 4.5 in wide, 4.5 in long

Figure D-114.



Part Number: 209-075-532-3 BUS BAR
Fabricate from: NSN 9535-00-232-0378
Material: Aluminum Alloy Extrusion, 2024,
 Federal Specification QQ-A-200/3 Temp 3510,
 One Leg 1.00 in long, Other Leg 0.188 in long
 0.063 in thk.

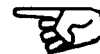
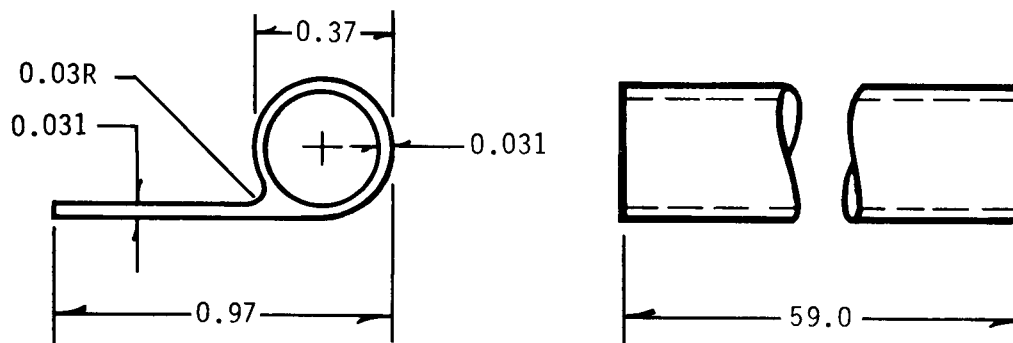


Figure D-115



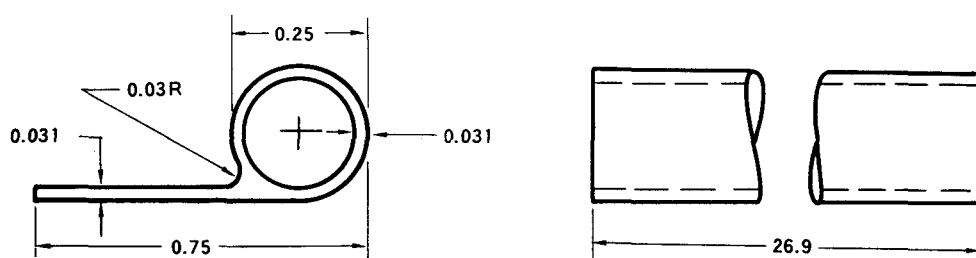
PART NUMBER: 209-060-525-15 RUBBER EXTRUSION

FABRICATE FROM: 9390-00-027-3340

MATERIAL: SYNTHETIC: MIL-R-6855

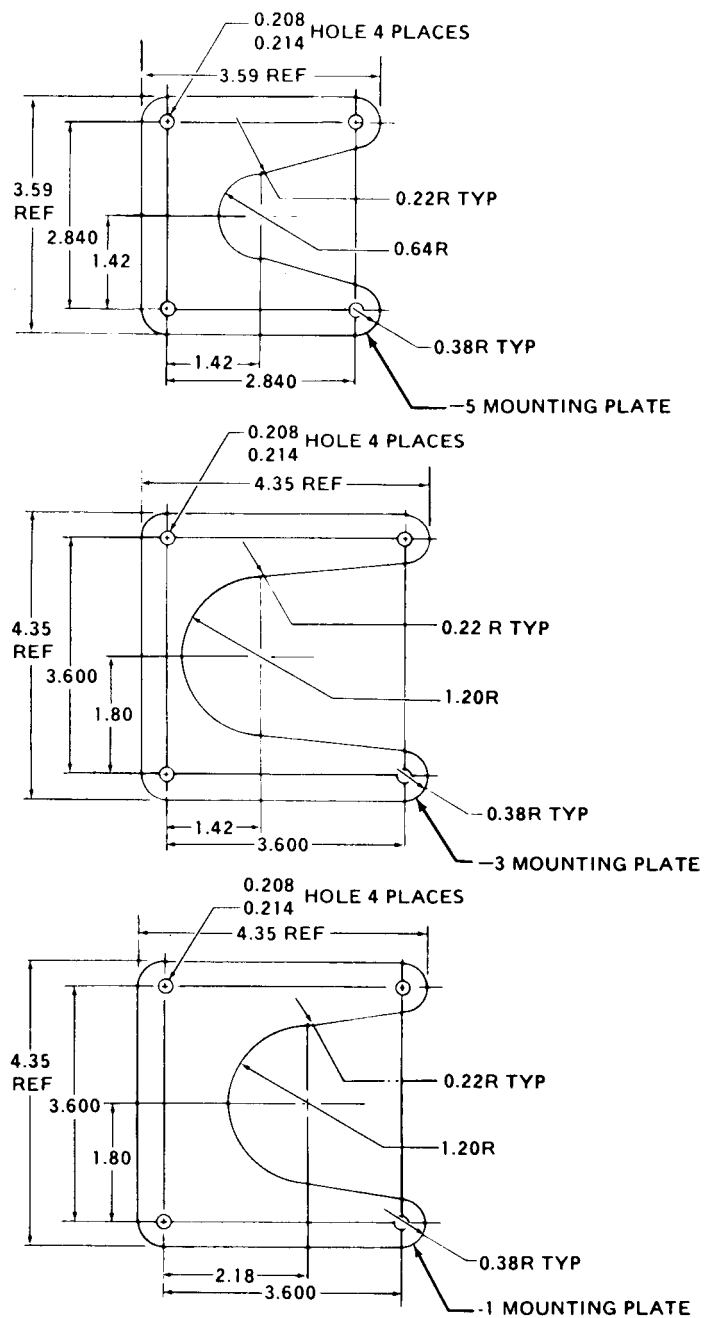
CLASS I, GRADE 60

Figure D-115.1



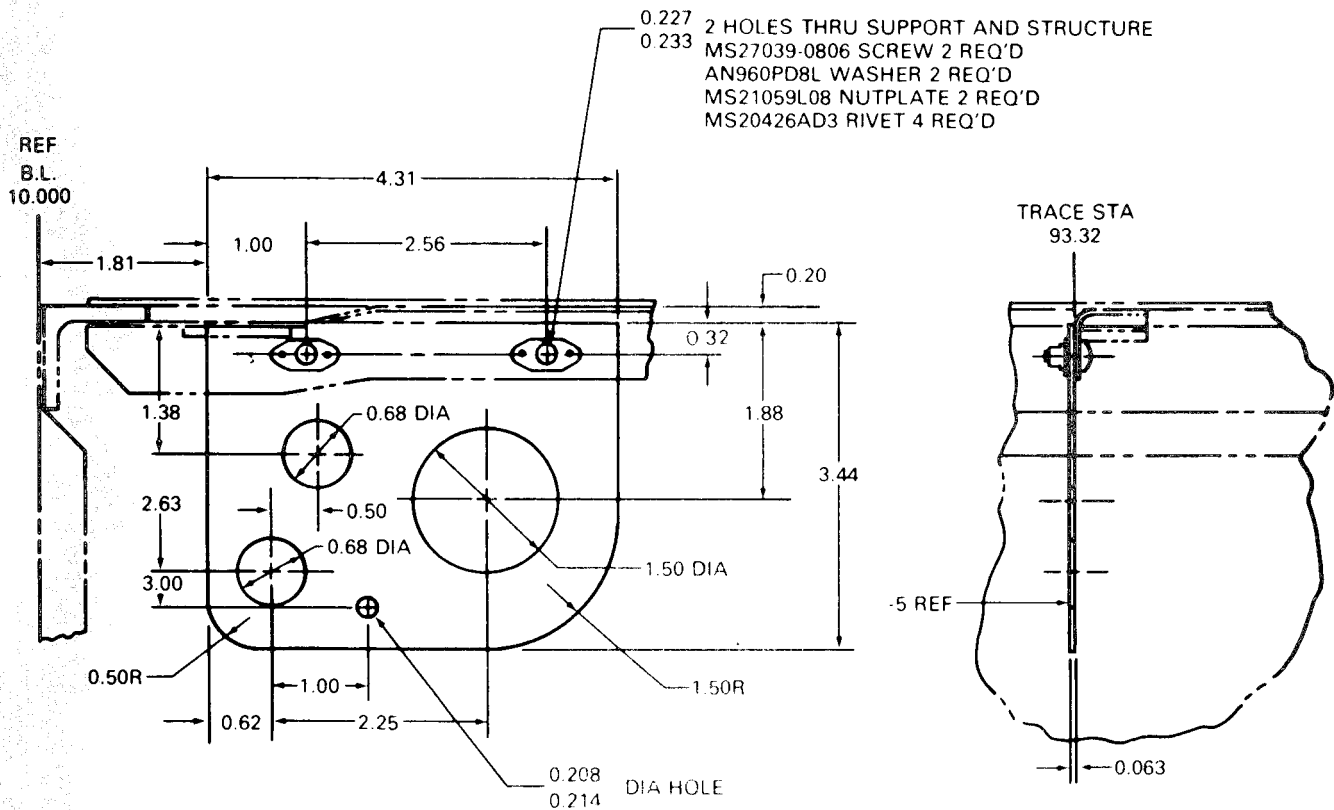
Part Number: 110-004-13-0269 DOOR SEAL RUBBER EXTRUSION
Fabricate from: NSN
Material: Synthetic: MIL-R-6855
 Class I, Grade 60

Figure D-116



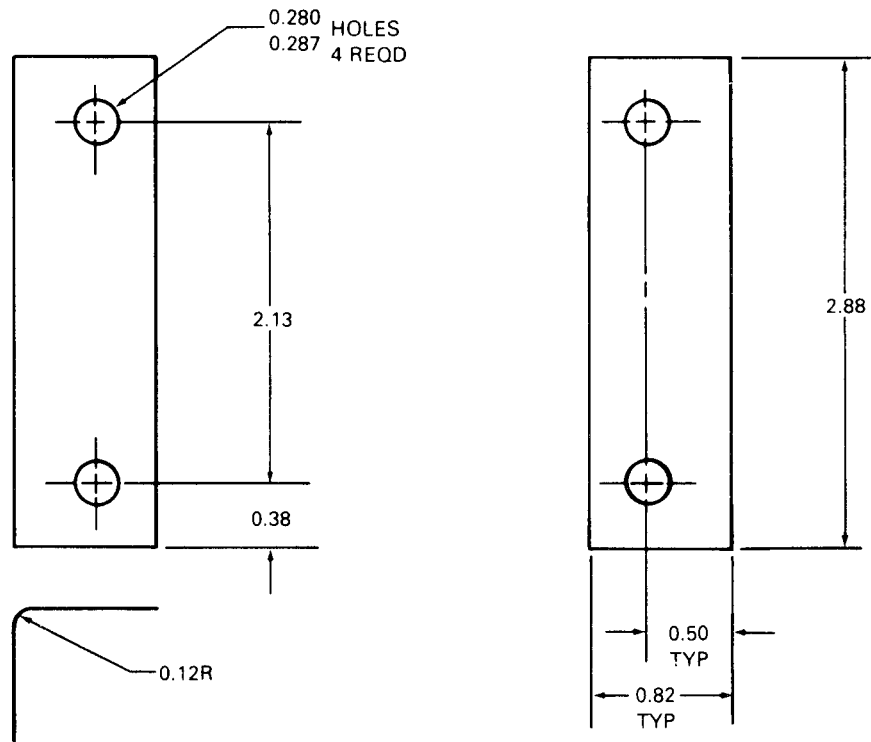
Part Number: 209-075-247-1 PLATE, Mounting
 209-075-247-3 PLATE, Mounting
 209-075-247-5 PLATE, Mounting
Fabricate from: NSN 9535-00-086-9729
Material: Aluminum Alloy, 2024, Federal
 Specification QQ-A-250/5, 0.032 in thk,
 4.5 in wide, 4.5 in long.

Figure D-117.



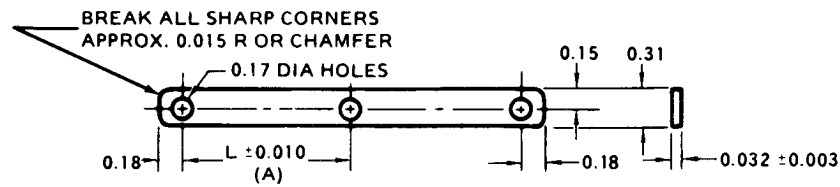
Part Number: 209-075-137-3 SUPPORT ASSY.
Fabricate from: NSN 9535-00-232-0378
Material: Aluminum Alloy 2024, Federal Specification QQ-A-250/5, 0.063 in thk, 4.0 in wide, 4.8 in long

Figure D-118.



Part Number: 209-072-449-1 CLIP
 Fabricated from: NSN 9535-00-167-2279
 Material: Aluminum Alloy, 2024, Federal
 Specification QQ-A-250/5,
 0.032 in thk, 2.2 in wide, 3.2 in long

Figure D-119.



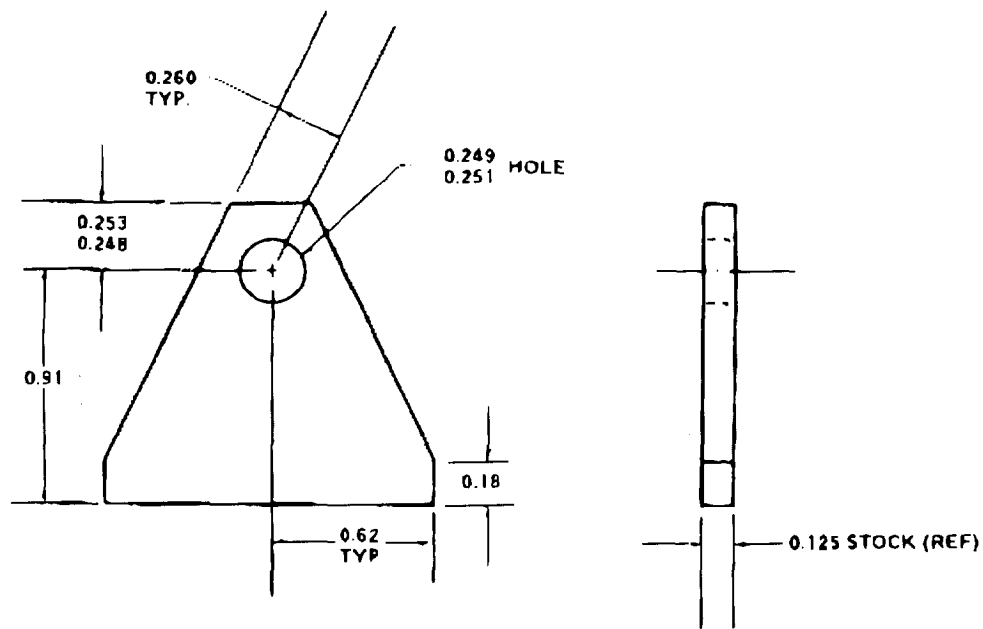
(A) TOLERANCE BETWEEN ANY TWO HOLES OF THE BUS BAR SHALL BE WITHIN THAT SHOWN FOR THE "L" DIMENSION

FINISH: CADMIUM PLATE FINISH, QQ-P-416, TYPE I, CLASS I.

HOLES: FIRST DASH NUMBER INDICATES NUMBER OF HOLES
SECOND DASH NUMBER INDICATES LENGTH "L" BETWEEN HOLES
IN 1/32 INCREMENTS.

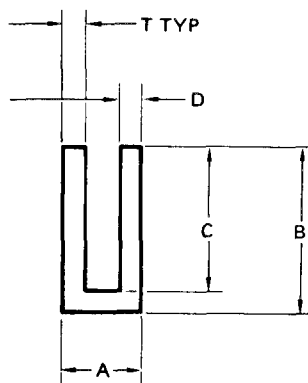
Part Number	30-006-2-26 BUS BAR
	30-006-3-26 BUS BAR
	30-006-2-24 BUS BAR
	30-006-5-24 BUS BAR
Fabricate from:	NSN 9535-00-232-2293
Material:	Copper, QQ-C-576, Temper, Cold Rolled Half Hard

Figure D-120



Part Number; 540-011-179-1 CLAMP, Strap Retention
 Fabricate from: NSN 9615-00-184-8811
 Material: Sheet Steel, 4130, Federal
 Specification MIL-S-18729 Cond N,
 0.125 in thk, 1.4 in wide, 1.4 in long

Figure D-121.



PART NUMBER	NOMENCLATURE	A	B	C	D	T	LENGTH	MAKE FROM NSN
110-076-1-57-0	RUBBER EDGE COVER	0.180	0.380	0.310	0.060	0.060	57.00	
110-076-2-57-0	RUBBER EDGE COVER	0.180	0.380	0.310	0.060	0.060	57.00	

Part Number:
Fabricate from:

Material:

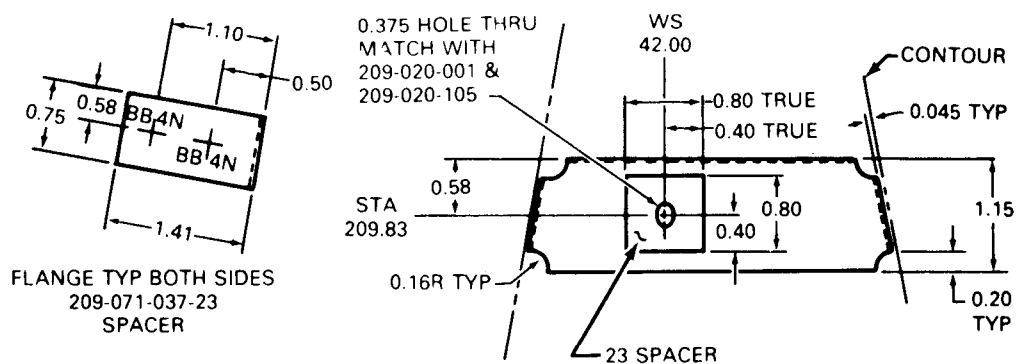
See Chart
NSN 9390-00-134-0184
NSN 9390-00-103-0060

110-076-1-57-0
Extruded Synthetic Rubber
MIL-R-6855, Class 2, Grade 60,
Oil, weather and ozone resistant

110-076-2-57-0
Extruded Synthetic Rubber
MIL-R-6855, Class 3, Grade 60,
Non-oil resistant

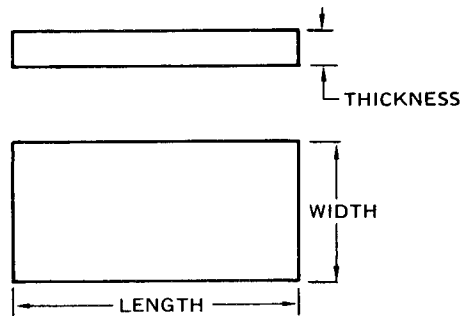


Figure D-122



Part Number: 209-071-037-19 BRACKET ASSY. (SHOWN)
 209-071-037-20 BRACKET ASSY. (OPPOSITE)
Fabricate from: NSN 9535-00-084-4533
Material: Aluminum Alloy, 2024, Federal
 Specification QQ-A-250/5, 0.025 in thk,
 1.4 in wide, 7.2 in long

Figure D-123.



PART NO.	NOMENCLATURE	MAKE FROM	THICK	WIDTH	LENGTH
120-098-05D70	SHIM	9535-00-400-3622	0.063	0.50	7.0
120-098-06D74	SHIM	9535-00-400-3622	0.063	0.60	7.4
120-098-05D67	SHIM	9535-00-400-3622	0.063	0.50	6.7
120-098-06E06	SHIM	9535-00-400-3622	0.078	0.60	0.6
120-098-10F10	SHIM	9535-00-400-3622	0.093	1.00	1.0
120-098-13F23	SHIM	9535-00-400-3622	0.093	1.30	2.3

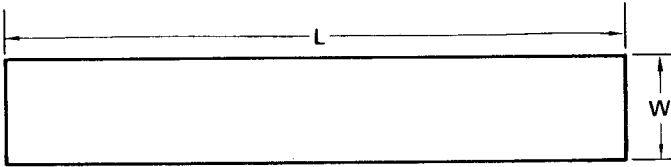
Fabricate from: NSN 9535-00-400-3622

Material: Aluminum Alloy Shim, Laminated Variable
Size, 0.03 Laminations

NOTES:

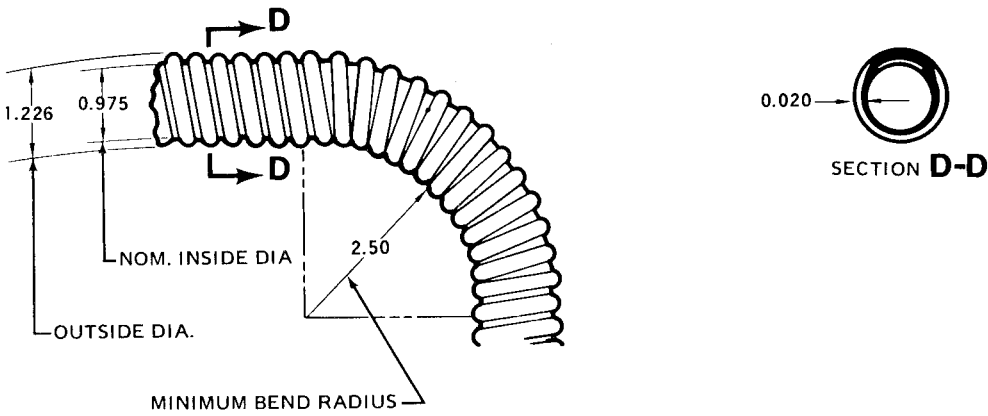
1. Make from Bell Standard 120-098 stock and purchase from Bell Helicopter Code Ident 97499.

Figure D-124



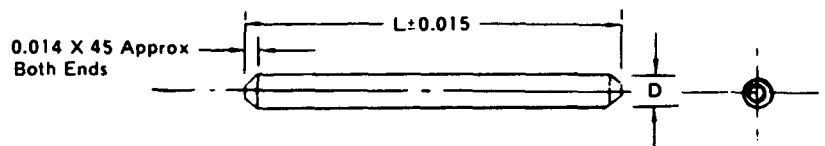
PART NO.	NOMENCLATURE	MAKE FROM NSN	THICK	WIDTH	LENGTH
209-030-216-69	FILLER	9535-00-232-0565	0.032	0.062	37.00
209-030-216-111	FILLER	9535-00-232-0565	0.032	0.40	0.55
209-030-216-141	SHIM	9535-00-232-0565	0.032	0.60	16.00
209-033-138-29	SPACER	9535-00-167-2279	0.032	1.30	16.40

Figure D-125



Part Number: 130-021C13-800 TUBING
Fabricate from: NSN
Material: Teflon FEP

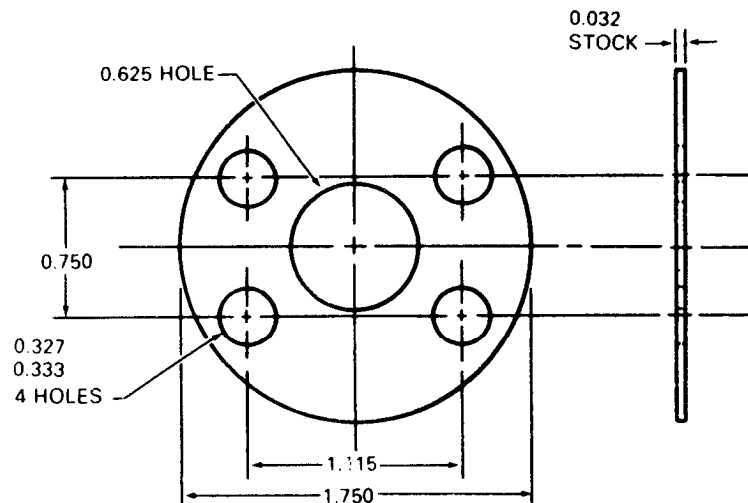
Figure D-126



PIN, STRAIGHT HEADLESS

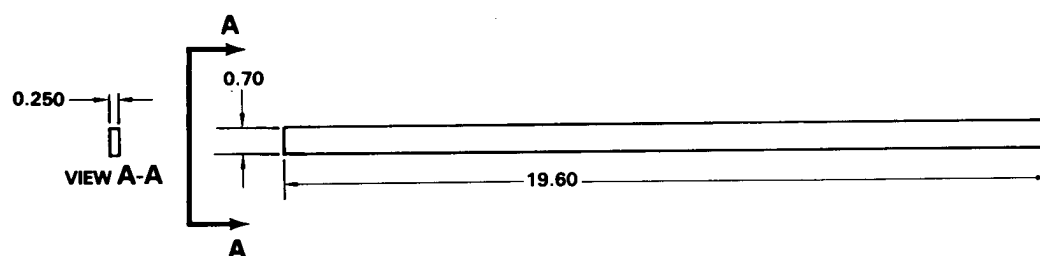
PART NUMBER	MAKE FROM NSN	DIM "L"	DIM "D"
MS20253P1-394	5340-00-182-9901	3.94	0.062
MS20253P1-820	5340-00-182-9901	8.20	0.062
MS20253-2-190	5340-00-817-8688	1.90	0.089
MS20253P2-300	5340-00-043-3723	3.00	0.089
MS20253P2-425	5340-00-043-3723	4.25	0.089
MS20253P2-450	5340-00-043-3723	4.50	0.089
MS20253P2-6990	5340-00-043-3723	69.90	0.089
MS20253P2-7890	5340-00-043-3723	78.90	0.089
MS20253P4-2830	5340-00-043-3724	28.30	0.179
MS20253P4-3630	5340-00-043-3724	36.30	0.179
209-020-001-77	5340-00-914-5745	12.84	0.117
209-077-202-23	5340-00-914-5745	24.00	0.117
209-077-202-25	5340-00-914-5745	24.00	0.117

Figure D-1 27



Part Number: 540-011-195-1 SHIM, Trunnion
Fabricate from: NSN 5365-00-107-8070
Material: CRES.302 Laminated, Federal Specification MIL-S-5059, 0.032 in thk, 2.0 in wide, 2.0 in long

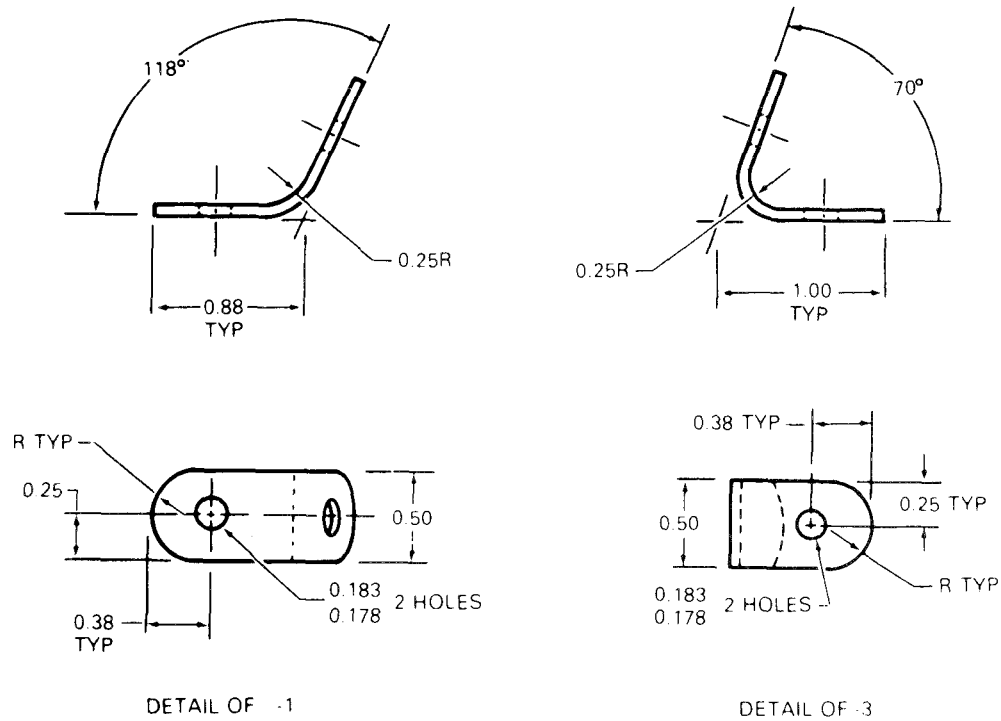
Figure D-128.



Part Number: 209-961-377-109 Pad
Fabricate From: NSN 9320-00-618-9380
Material: Rubber, MIL-R-6130, Type II, Grade A,
Soft, 0.250 in. thk., 0.80 in. wide,
20.00 in. long

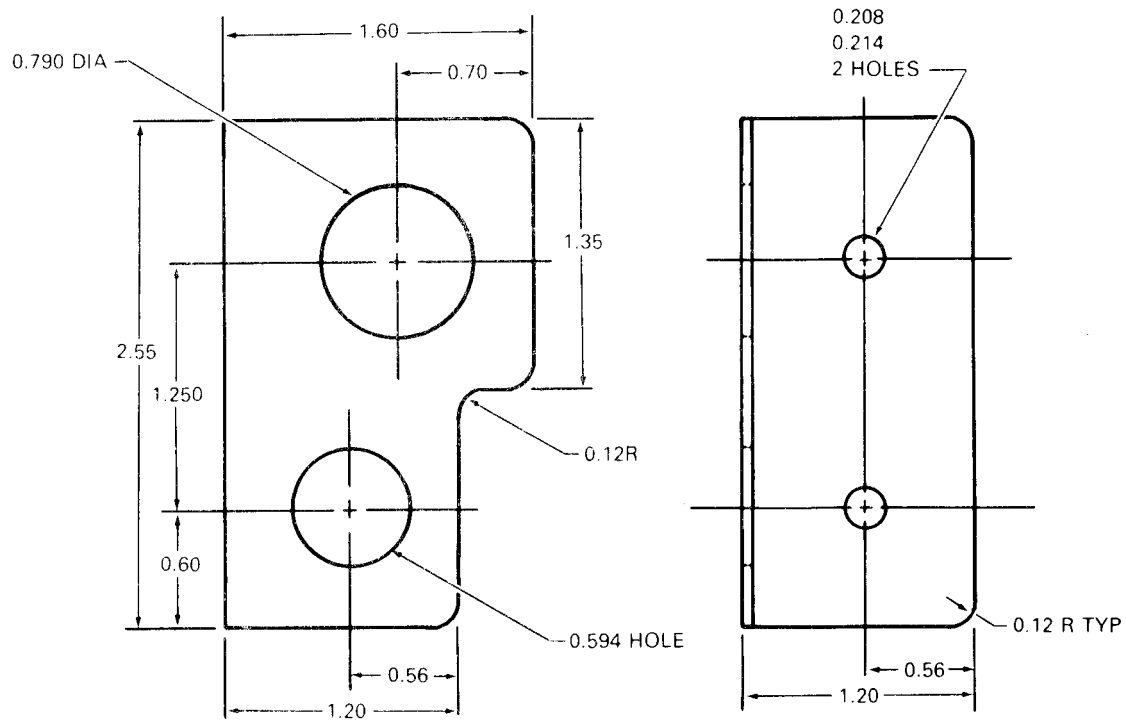
209060-163

Figure D-128.1. (After Incorporation of MWO 55-1520-236-50-12)



Part Number: 209-875-646-1 CLIP
209-875-646-3 CLIP
Fabricate from: NSN 9535-00-232-0378
Material: Aluminum Alloy, 2024, Federal
Specification, QQ-A-250/5, 0.063 in thk,
0.75 in wide, 2.0 in long and 5.0 in long

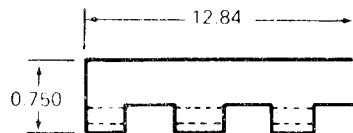
Figure D-129.



NOTE:
1. Bend Radial 0.16.

Part Number: 209-076-399-1 BRACKET
Fabricate from: NSN 9535-00-084-4551
Material: Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, 0.040 in thk, 2.9 in wide, 3.3 in long

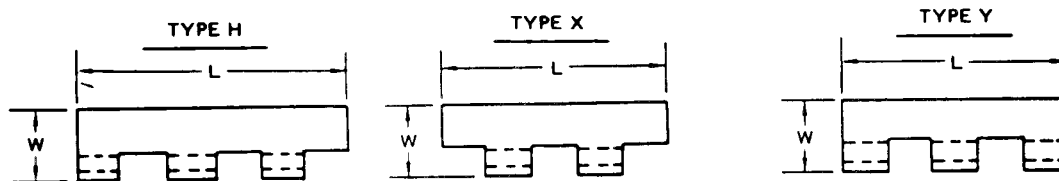
Figure D-130.



NOTES:
1. Make from MS20257HC4 Hinge Stock

Part Number: 209-020-001-79 HINGE HALF
Fabricate from: NSN 5340-00-820-0637
Material: Hinge Butt, Cres, 0.062 in thk, 0.075 in wide, 12.84 in long

Figure D-131.



NOTES:

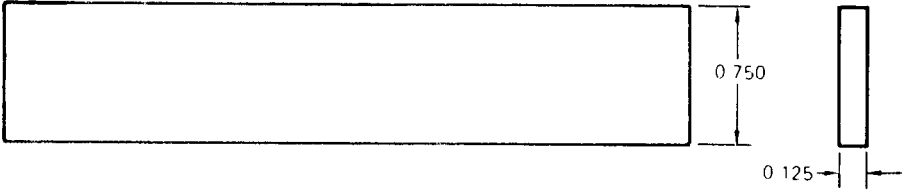
1. REMOVE CENTER LOOP.
2. CRIMP ENDS OF HINGE TO RETAIN HINGE PINS.
3. MOUNTING HOLES TO BE DRILLED AT TIME OF INSTALLATION.

△ APPLIES TO HELICOPTERS AFTER INCORPORATION OF MWO 55-1520-236-50-12.

HINGES

PART NO.	MAKE FROM NSN	THICKNESS	WIDTH	LENGTH	STYLE
MS20001P4-950	5340-00-664-8141	0.056	1.50	9.50	H
209-031-203-63	5340-00-619-0695	0.056	2.00	45.00	H
209-031-203-64	5340-00-619-0695	0.056	2.00	45.00	H
MS20001PX8-2750	5340-00-619-0696	0.076	1.167	27.00	H
MS20001PX8-3600	5340-00-619-0696	0.076	1.167	36.00	H
MS20001PY8-2850	5340-00-619-0696	0.076	1.167	28.50	H
MS20001PY8-3650	5340-00-619-0696	0.076	1.167	36.50	H
209-030-216-57	5340-00-664-8118	0.040	1.00	45.50	H
MS20256HP2-6370	5340-00-664-8118	0.040	0.531	63.70	H
MS20257HP2-6380	5340-00-993-1461	0.040	0.531	63.80	H
MS20257P2-385	5340-00-250-4970	0.040	1.062	3.85	X,Y
204-030-840-1	5340-00-993-1461	0.040	0.531	14.50	H
209-060-810-101	5340-00-993-1461	0.040	0.531	2.00	H
209-071-038-25	5340-00-250-4970	0.040	1.062	2.50	H
209-075-703-17	5340-00-250-4970	0.040	1.062	4.37	H
209-075-705-5	5340-00-250-4970	0.040	1.062	4.37	H
209-030-139-17	5340-00-051-9132	0.040	1.250	2.50	H
209-031-840-27	5340-00-826-9137	0.040	1.250	48.00	H
209-033-191-21	5340-00-051-9132	0.040	1.250	3.50	H
209-033-193-21	5340-00-051-9132	0.040	1.250	3.50	H
209-033-194-21	5340-00-051-9132	0.040	1.250	3.50	H
209-033-276-25	5340-00-051-9132	0.040	1.062	4.00	H
209-071-229-49	5340-00-051-9132	0.040	1.250	3.50	Y
209-077-202-19	5340-00-826-9137	0.040	1.250	24.00	H
209-077-202-21	5340-00-826-9137	0.040	1.250	24.00	H
81-1708-9	5340-00-057-2625	0.032	0.750	4.50	H

Figure D-132

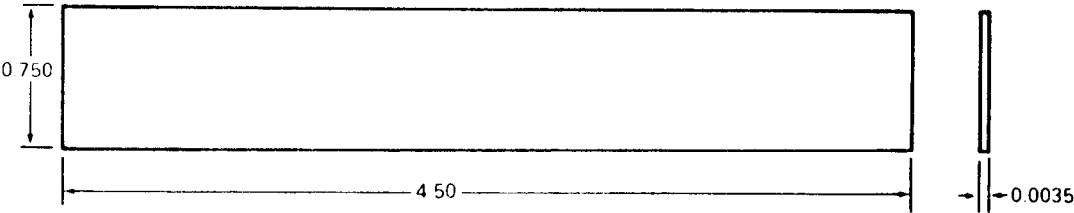


PART NO.	NOMENCLATURE	MAKE FROM	NSN	THK	WIDE	LENGTH
209-033-114-39	SEAL	8135-00-		0.125	0.750	25.10
209-033-114-40	SEAL	8135-00-		0.125	0.750	25.10
209-033-114-41	SEAL	8135-00-		0.125	0.750	30.70

NOTES :
1. Make from tape 4508 and purchase from Minnesota Mining and Manufacturing Comp. Code Ident 76381

Part Number: 209-033-114-39,-40, and -41 SEAL
Fabricate from: NSN 7510-00-878-2052
Material: Tape, Pressure Sensitive, 0.750 in wide, 0.125 in thk.

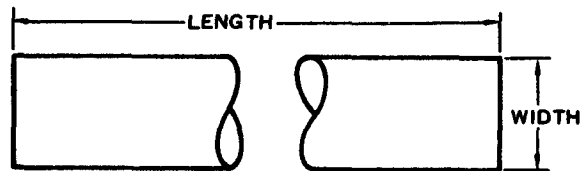
Figure D-133



NOTES :
1. Make from Tape No. 549- Purchase from Minnesota Mining and Manufacturing Comp. Code Ident 76381.

Part Number: 209-050-003-61 TAPE
Fabricate from: NSN 7610-00-926-2210
Material: Tape, Pressure Sensitive, Nylon, 0.0035 in thk.

Figure D-134.



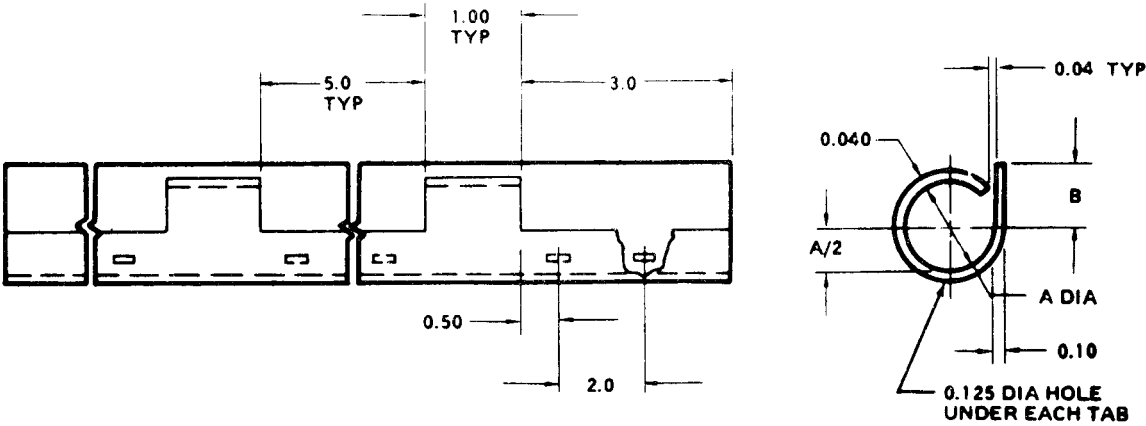
PRESSURE SENSITIVE TAPE

PART NO.	NOMENCLATURE	MAKE FROM NSN	THK	WIDTH	LENGTH
209-031-818-47	CHAFING STRIP	7510-00-888-4756	0.040	1.00	56.00
209-031-818-51	CHAFING STRIP	7510-00-888-4756	0.040	1.00	55.00
209-031-818-53	CHAFING STRIP	7510-00-888-4756	0.040	1.00	30.00

NOTE:

1. Make from Y9265A Tape and purchase from Minnesota Mining and Manufacturing Company, Code Ident 76381.

Figure D-135



PART NUMBER	A + 0.05	B + 0.05	LENGTH
140-023-7-14	0.50	0.50	14.00

Part Number: 140-023-7-14 CABLE ROUTING WIREWAY
Fabricate from: NSN 5975-01-125-5232
Material: GEON8700A

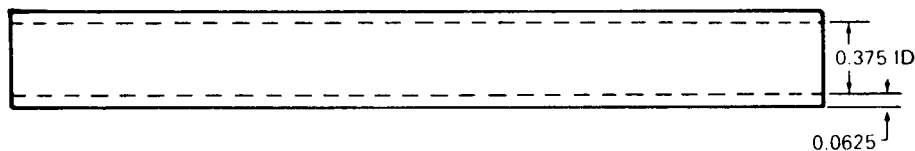
Figure D-136.

**NOTES:**

1. Make from Tape 425 Aluminum 0.003 in thick and purchase from Minnesota Mining and Manufacturing Comp. Code Ident. 76381.
2. Alternate material Uralene 8450 Barrier Material 0.005 inch thick. May be purchased from Furalene Plastics Inc., Los Angeles, Calif., Code Ident. 99384.

Part Number: 209-072-439-27 VAPOR BARRIER
 Fabricate from: NSN 7510-00-720-7516
 Material: Barrier Tape, Aluminum Foil, 0.003 in thk

Figure D-137



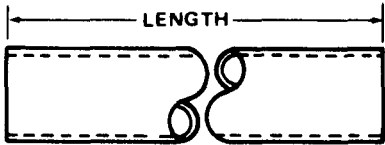
PART NO.	LENGTH
209-031-812-11	18.00
209-031-812-13	64.00

NOTES:

1. Make from MP1485 Tubing and purchase from Molded Rubber Products Div. of East Hampton Rubber Thread Co., East Hampton, Mass. Code Ident 72062.

Part Number: 209-031-812-11 TUBE
 209-031-812-13 TUBE
 Fabricate from: NSN 4720-00-195-6048
 Material: Clear plastic tubing, 0.0625 in wall thk,
 0.375 in ID

Figure D-138.

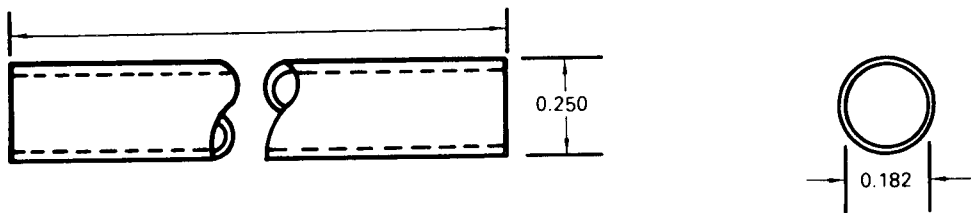


MATERIAL: PER SPECIFICATION MIL-I-7444, TYPE 1, CLASS 1

TUBE, INSULATING

PART NUMBER	LENGTH	MATERIAL NSN
	IN INCHES	
85T4-0-9	4.5	5970-00-843-1257
85T4-11-1	0.5	5970-00-243-5878
85T4-1500-14	7.0	5970-00-284-8466
85T4-2-3	1.5	5970-00-235-2725
85T4-8-1	0.5	5970-00-284-8468
85T4-8-2	1.0	5970-00-284-8468

Figure D-139.



TUBE, INSULATING

FEDERAL SPECIFICATION MIL-M-20693,
COMP A, TYPE I

PART NO.	LENGTH	NSN
130-011-4N8	1.0	9330-00-931-7097
130-011-4N32	4.0	9330-00-931-7097
130-011-4N35	4.375	9330-00-931-7097
130-011-4N48	6.0	9330-00-931-7097
130-011-4N50	6.25	9330-00-931-7097
130-011-4N64	8.0	9330-00-931-7097
130-011-4N80	10.0	9330-00-931-7097
130-011-4N96	12.0	9330-00-931-7097
130-011-4N126	15.75	9330-00-931-7097
130-011-4N128	16.0	9330-00-931-7097
130-011-4N154	19.25	9330-00-931-7097
130-011-4N168	21.0	9330-00-931-7097
130-011-4N192	24.0	9330-00-931-7097
130-011-4N203	25.375	9330-00-931-7097
130-011-4N208	26.0	9330-00-931-7097
130-011-4N240	30.0	9330-00-931-7097
130-011-4N248	31.0	9330-00-931-7097
130-011-4N336	42.0	9330-00-931-7097
130-011-4N376	47.0	9330-00-931-7097
130-011-4N384	48.0	9330-00-931-7097
130-011-4N400	50.0	9330-00-931-7097
130-011-4N500	62.5	9330-00-931-7097
130-011-8N464	58.0	9330-00-931-7097

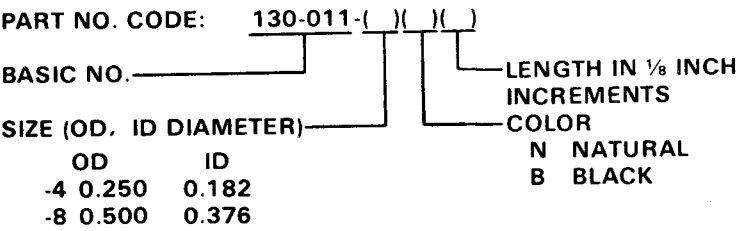
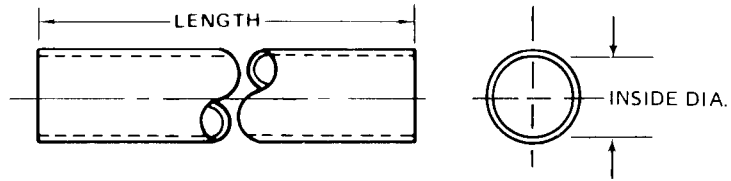


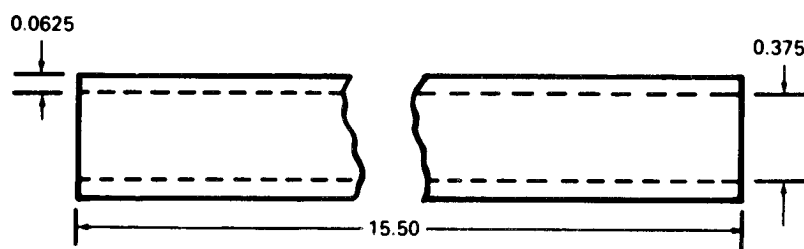
Figure D-140



TUBE, INSULATING

PART NO.	I.D.	WALL THICKNESS	COLOR	LENGTH IN.	NSN
130-005-1-3	0.046	0.016	BLACK	1.50	5970-00-195-9547
130-005-2-2	0.063	0.017	BLACK	1.00	
130-005-2-3	0.063	0.017	BLACK	1.50	
130-005-2C1	0.063	0.017	CLEAR	0.50	
130-005-2C6	0.063	0.017	CLEAR	3.00	
130-005-2C7	0.063	0.017	CLEAR	3.50	
130-005-4-4	0.125	0.020	BLACK	2.00	
130-005-5-2	0.187	0.023	BLACK	1.00	
130-005-5-4	0.187	0.023	BLACK	2.00	
130-005-5C5	0.187	0.023	CLEAR	2.50	
130-005-5C7	0.187	0.023	CLEAR	3.50	5970-00-195-9547
130-005-6-2	0.250	0.028	BLACK	1.00	
130-005-6-4	0.250	0.028	BLACK	2.00	
130-005-6-60	0.250	0.028	BLACK	30.00	
130-005-6C5	0.250	0.028	CLEAR	2.50	5970-00-404-7998
130-005-6C7	0.250	0.028	CLEAR	3.50	
130-005-7-2	0.375	0.028	BLACK	1.00	
130-005-7C5	0.375	0.028	CLEAR	2.50	
130-005-7C8	0.375	0.028	CLEAR	4.00	
130-005-8-4	0.500	0.028	BLACK	2.00	
130-005-8C5	0.500	0.028	CLEAR	2.50	
130-005-9-4	0.750	0.033	BLACK	2.00	
130-005-9-20	0.750	0.033	BLACK	10.00	
130-005-9-30	0.750	0.033	BLACK	15.00	
130-005-9-56	0.750	0.033	BLACK	28.00	
130-005-9-60	0.750	0.033	BLACK	30.00	
130-005-10-24	1.000	0.035	BLACK	12.00	
130-005-10-36	1.000	0.035	BLACK	18.00	
130-005-10-56	1.000	0.035	BLACK	28.00	
130-005-11-6	1.500	0.040	BLACK	3.00	
130-005-11-30	1.500	0.040	BLACK	15.00	
130-005-11-56	1.500	0.040	BLACK	28.00	

Figure D-141

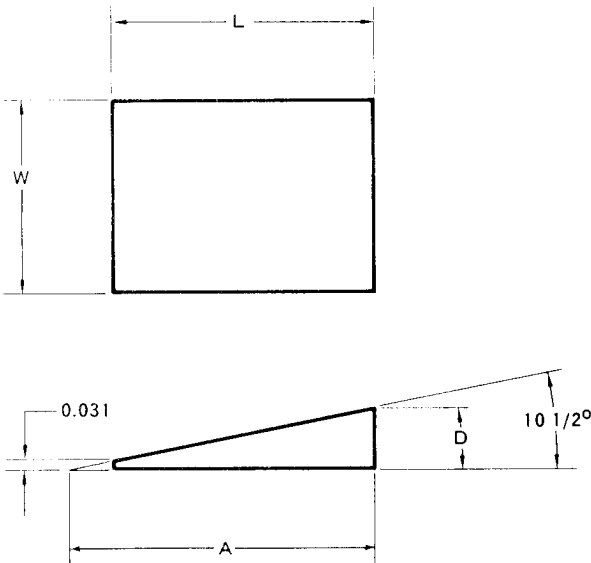
**NOTE:**

1. Make from Rubber Stock.

PART NO.	LENGTH
209-061-600-11	15.50
209-061-600-13	15.50

PART NUMBER: 209-061-600-11 HOSE
209-061-600-13 HOSE
Fabricate from: NSN 4720-00-088-4495
Material: Hose Synthetic Rubber, Federal
Specification MIL-R-6855, Class I,
Grade 40, 0.375 in ID, 0.0625 in Wall

Figure D-142.



PART NUMBER	NOMENCLATURE	WIDTH	LENGTH	A	D
20-031-12-24	FILLER BLOCK	1.500	0.750	0.917	0.170
20-031-26-20	FILLER BLOCK	1.250	1.625	1.792	0.332
20-031-8-16	FILLER BLOCK	1.000	0.500	0.667	0.124

Part Number:
Fabricate from:

Material:

See Chart
NSN 9535-00-235-9812
NSN 9535-00-235-9813
NSN 9535-00-235-9809
2024 Aluminum Alloy
Federal Specification QQ-A-250
Anodize per MIL-A-8625 or Chemical
Film per MIL-C-5541

Figure D-143

SEALS AND GASKETS

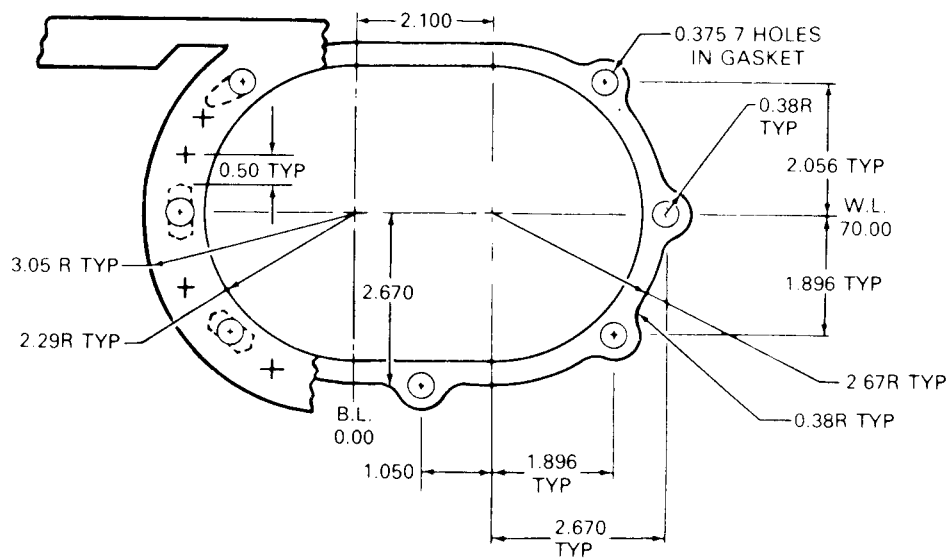
PART NO.	NOMENCLATURE	MAKE FROM	THICK	WIDE	LENGTH
209-060-810-39	SEAL	9390-00	0.047	5.50	28.0
209-060-900-63	GASKET	9390-00	0.047	0.70	36.5
209-060-902-49	GASKET	9390-00	0.047	1.00	3.60
209-060-903-39	SEAL	9390-00	0.047	1.00	18.5
209-060-903-41	SEAL	9390-00	0.047	1.00	16.5
209-060-903-43	SEAL	9390-00	0.047	1.00	8.5
209-060-903-45	SEAL	9390-00	0.047	1.00	5.5
209-060-903-47	SEAL	9390-00	0.047	1.00	13.0
209-060-903-49	SEAL	9390-00	0.047	1.00	18.5

NOTES :

1. Make from Style 89 Material and purchase from Johns Mansville Products, Code Ident 92798.

Fabricate from: NSN 5330-00-938-1719
 Material: Asbestos, Non-metallic Wire Woven,
 Style 89, 0.047 in thk.

Figure D-144.

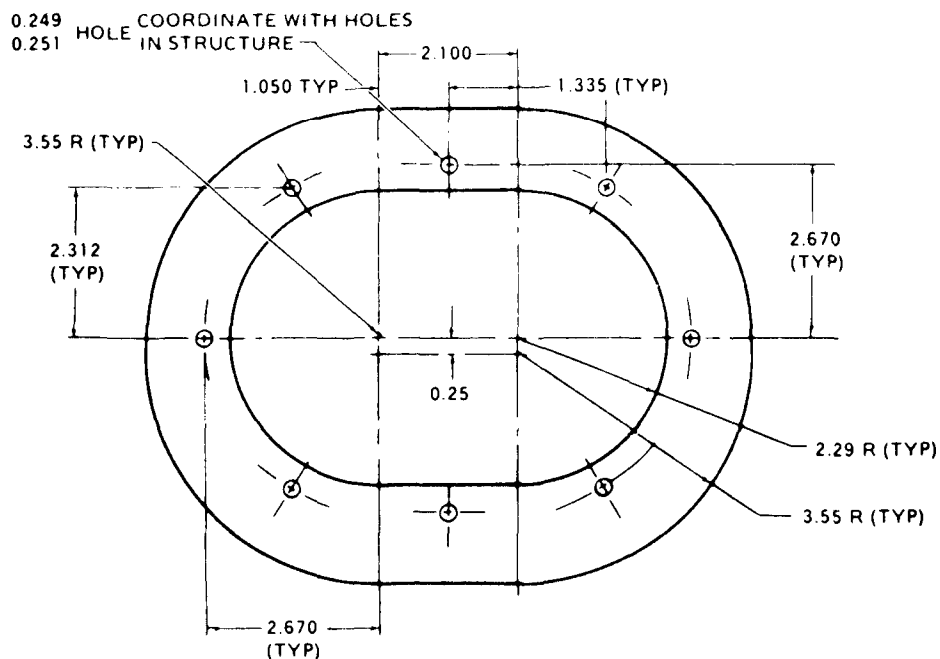


NOTES:

1. Make gasket from Style 89 Gasket Material and purchase from Johns Mansville Products Corp., New York, N.Y. Code Ident 92798.

Part Number: 209-060-900-65 GASKET
 Fabricate from: NSN 5330-00-938-1719
 Material: Asbestos, Non-metallic, Woven-wire Style 89,
 0.047 in thk.

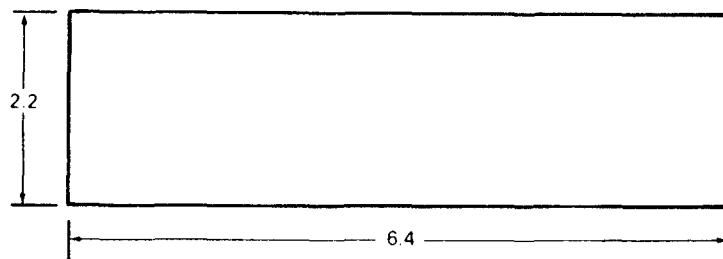
Figure D-145.

**NOTES:**

1. Make Gasket from Style 89 Gasket Material and purchase from Johns Mansville Products Company, New York, N.Y. Code Ident 92798.

Part Number: 209-060-903-33 DIAPHRAGM
 Fabricated from: NSN 5330-00-938-1719
 Material: Asbestos Non-Metallic Woven Wire
 Style 89, 0.047 in thk, 7.6 in wide, 8.5 in long

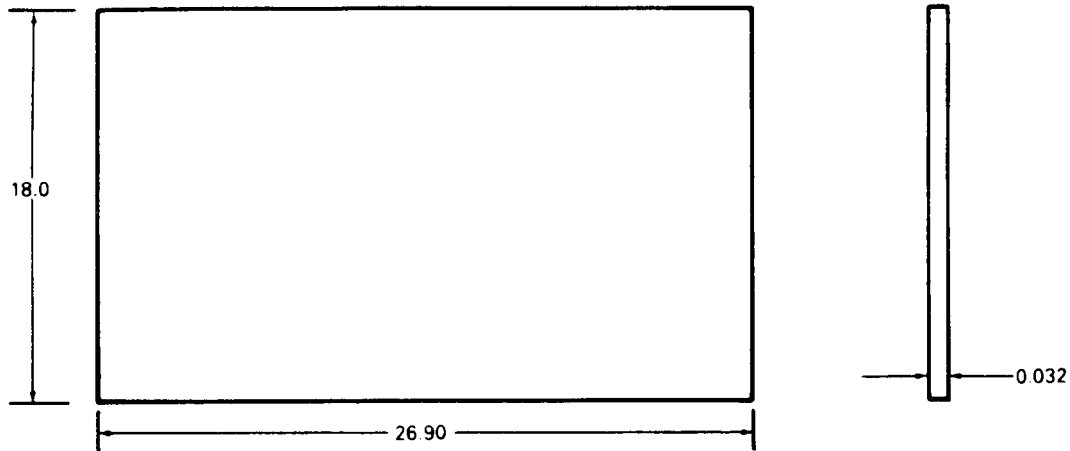
Figure D-146

**NOTES:**

1. Make from Sheet Rubber and match 209-033-198-7 Bracket.

Part Number: 209-033-198-9 CHAFE STRIP
 Fabricate from: NSN 9320-00-143-7111
 Material: Rubber Sheet solid both sides, oil resistant,
 Federal Specification MIL-R-7362, Type 2, 0.062 in thk.

Figure D-147.

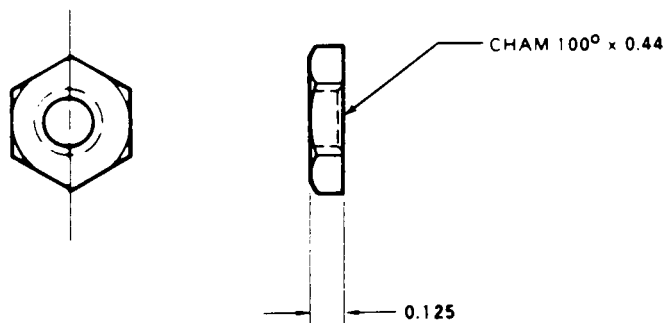


NOTES:

1. Make from Sheet Rubber and cut to fit removed seal.

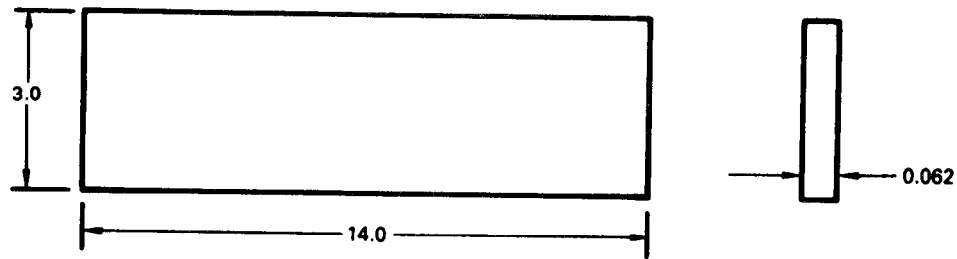
Part Number: 209-031-265-21 SEAL
 Fabricate from: NSN 5330-00-202-4057
 Material: Rubber Sheet Synthetic, Federal
 Specification MIL-R-6855 Class 2,
 Grade 40, 0.032 in thk.

Figure D-148.



Part Number: 204-060-056-1 NUT
 Fabricate from: NSN 5310-00-733-8399
 Material: May be made from AN924-4 nut

Figure D-149.



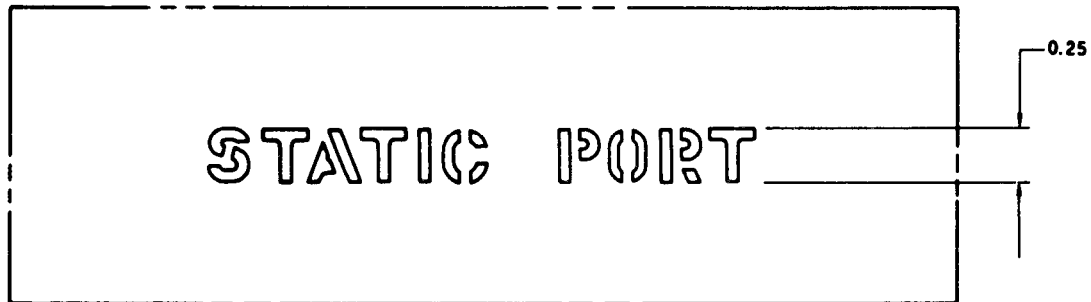
NOTES:

1. Make from Silicon Rubber.

Part Number: 209-060-200-19 GASKET
 209-060-200-21 GASKET
 Fabricate from: NSN 5330-00-871-7859
 Material: Rubber Sheet, Silicon, 0.062 In. Thick,
 3.0 in. Wide, 14.0 In. Long

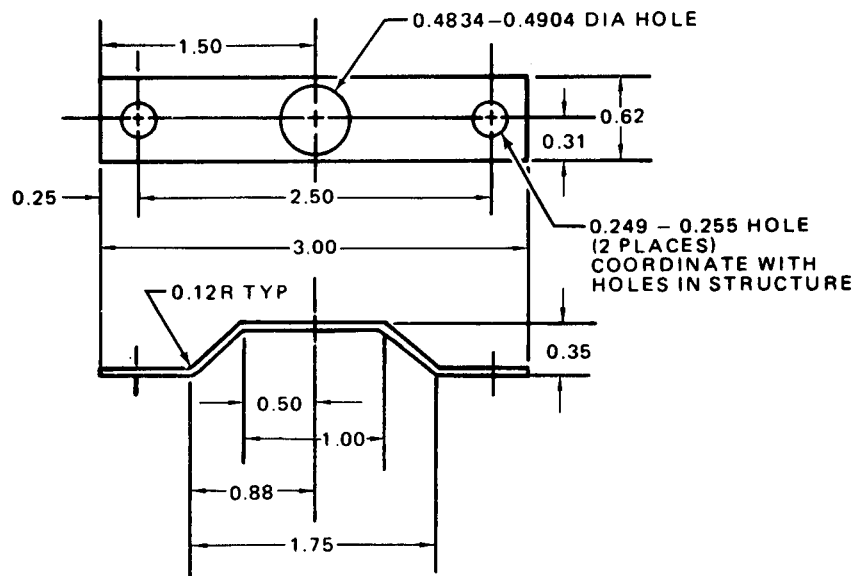


Figure D-150.



Part Number: 204-070-806-5 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-151
 Figure D-151



Part Number: 204-070-848-3 RETAINER
NSN: 9535-00-086-9729
Material: Aluminum Alloy 2024,
 Federal Specification QQ-A-362
 0.032 In. Thick, 1.0 In. Wide, 3.5 In. Long

Figure D-152



Part No.	Nomenclature	Make from NSN	Thick	Width	Length
209-060-810-111	GASKET	9320-00-404-6053	0.032	3.00	8.00
209-060-810-113	GASKET	9320-00-404-6054	0.032	1.00	30.00

NOTES:

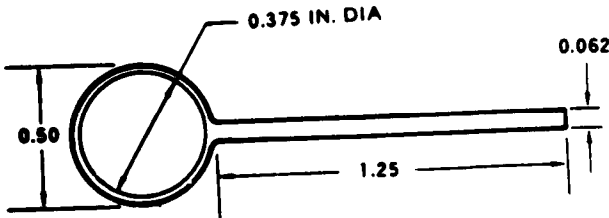
- 1. All dimensions in inches,
- 2. Make 209-080-810-111 from Apex 832-3000 material.
- 3. Make 209-060-810-113 from Apex 832-1000 material.
- 4. Purchase material from Apex Rubber Company, Philadelphia, Penna., Code Ident 99751.

Part Number: 209-060-810-111 GASKET
209-060-810-113 GASKET

Fabricate from: See table and notes above

Material: Rubber Strip, Solid, Both Sides Smooth,
Oil Resistant, 0.032 inch thick

Figure D-153.

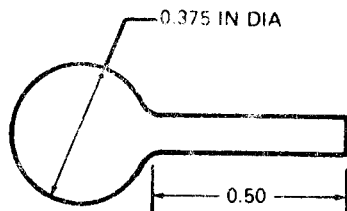


Part No.	Length
209-060-200-17	9.8
209-060-200-29	30
209-060-200-101	6
209-060-200-103	8

NOTES:

- 1. Make from Extrusion No. X-962
India Rubber Company, Chicago, Ill. Code Ident 70485
- Part Number: 209-060-200-17
209-080-200-29
209-080-200-101
209-060-200-103
- Fabricate from NSN 9390-01-130-1886
- Material: Extrusion, Buns-N Rubber

Figure D-153.1



PART NO.	LENGTH
209-060-900-119	4.0
209-060-900-120	4.0

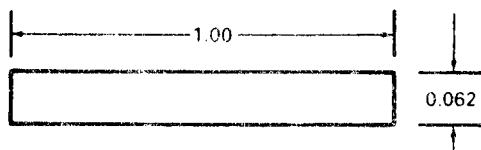
NOTES:

1. Make from Extrusion No. 962 and purchase from Atlantic India Rubber Company, Chicago, Ill., Code Ident 70485

Part Number: 209-060-900-119 SEAL
 209-060-900-120 SEAL
 Fabricate from: NSN 9390-00-851-9178
 Material: Extrusion, Synthetic Rubber,
 Federal Specification MIL-S-6855
 Class I, Grade 40

Figure D-154

Figure D154.



PART NO.	NOMENCLATURE	MAKE FROM NSN	THK	WIDTH	LENGTH
209-020-001-75	SEAL	NSN 9320-01-020-8289	0.062	1.00	8.52
209-033-137-19	SEAL	NSN 9320-01-020-8289	0.062	1.00	15.00
209-033-137-21	SEAL	NSN 9320-01-020-8289	0.062	1.00	23.00
209-033-137-23	SEAL	NSN 9320-01-020-8289	0.062	1.00	24.00
209-033-137-25	SEAL	NSN 9320-01-020-8289	0.062	1.00	20.00
209-033-138-23	SEAL	NSN 9320-01-020-8289	0.062	1.00	21.80
209-033-138-25	SEAL	NSN 9320-01-020-8289	0.062	1.00	23.20
209-033-138-27	SEAL	NSN 9320-01-020-8289	0.062	1.00	22.70

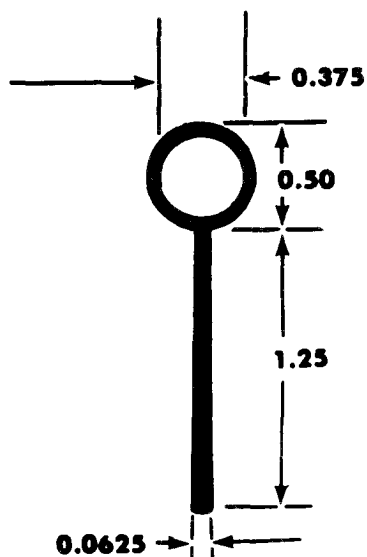
NOTE:

1. Make from Bell Standard 110-70-32 and purchase from Bell Helicopter, Code Ident 97499.

Part Number: 209-020-001-75 SEAL
 Fabricate from: NSN 9320-01-020-8289
 Material: Extrusion, Rubber Solid, Rectangular,
 Federal Specification AMS3195, Grey or Black Color

Figure D-155

Figure D-155.



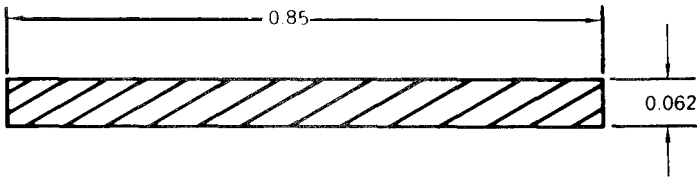
PART NO.	LENGTH
209-060-200-17	9.8
209-060-200-29	30.0
209-060-200-101	6.0
209-060-200-103	8.0

NOTE:

Make from Extrusion No. X-962 and purchase from Atlantic India Rubber Company, Chicago, Ill., Code Indent 70485

Part Number: 209-060-200-17
 209-060-200-29
 209-060-200-101
 209-060-200-103
 Fabricate from: NSN 9390-01-130-1886
 Material: Extrusion, Buna-N Rubber

Figure D-155.1

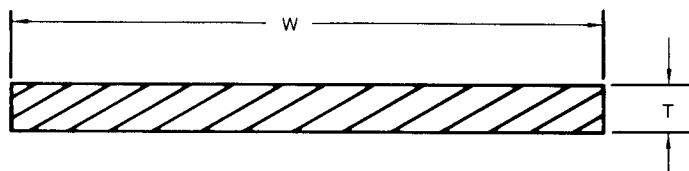


PART NO.	NOMENCLATURE	MAKE FROM	THK	WIDTH	LENGTH
209-033-800-65	SEAL	9320-01-047-4236	0.062	0.85	47.1
209-033-800-77	SEAL	9320-01-047-4236	0.062	0.85	50.9
209-033-800-95	SEAL	9320-01-047-4236	0.062	0.85	50.0

NOTE:
1. Make from Bell Standard 110-070-038 and purchase from Bell Helicopter Code Ident 97499.

Part Number: 209-033-800-65, -77, and -95 SEAL
209-033-800-77 SEAL
Fabricate from: NSN 9320-01-047-4236
Material: Extrusion, Rubber, Solid, Rectangular
Federal Specification AMS3197, Grey

Figure D-156

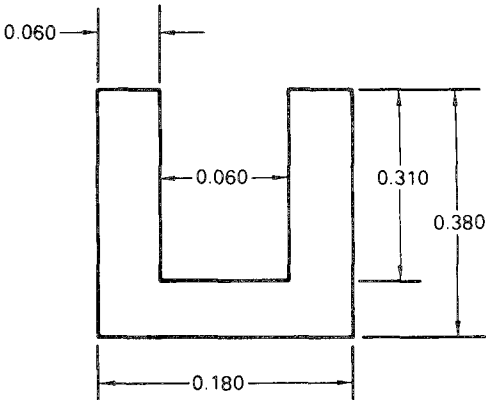


PART NO.	NOMENCLATURE	MAKE FROM	THK	WIDTH	LENGTH
110-070-31-0178	SEAL	9320-00-878-6507	0.062	0.750	17.80
110-070-31-0200	SEAL	9320-00-878-6507	0.062	0.750	20.00
110-070-31-0365	SEAL	9320-00-878-6507	0.062	0.750	36.50
110-070-31-0710	SEAL	9320-00-878-6507	0.062	0.750	71.00
110-070-31-0740	SEAL	9320-00-878-6507	0.062	0.750	74.00
110-070-31-0970	SEAL	9320-00-878-6507	0.062	0.750	97.00
110-070-31-1150	SEAL	9320-00-878-6507	0.062	0.750	115.00
110-070-31-1170	SEAL	9320-00-878-6507	0.062	0.750	117.00
110-070-31-1210	SEAL	9320-00-878-6507	0.062	0.750	121.00
110-070-31-0460	SEAL	9320-00-878-6507	0.062	1.000	46.00
110-070-31-0810	SEAL	9320-00-878-6507	0.062	1.000	81.00

1. Make from Bell Standard 110-070-31 Stock. Purchase Stock from Bell Helicopter, Code Ident 94799.

Part Number: (See Chart) SEAL
 Fabricate from: See Chart
 Material: Extrusion, Rubber Solid,
 Rectangular, Federal Specification AMS3195

Figure D-157

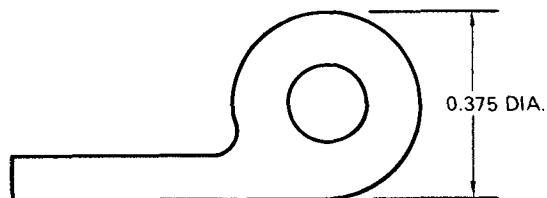


PART NO.	NOMENCLATURE		MAKE FROM NSN	LENGTH
209-020-001-29			9390-00-	21.00
209-020-001-31	BUMPER	110-029-1	4390-00-	9.00
209-020-001-33	BUMPER	110-029-1	9390-00-	17.00
209-020-001-35	BUMPER	110-029-1	9390-00-	8.50
209-020-001-37	BUMPER	110-029-1	9390-00-	14.50
209-060-902-99	STRIP	110-029-2	9390-00-	14.5

Part Number: See Chart Above
 Fabricate from: NSN 9390-00-103-0060
 Material: Rubber Extrusion, Edge Cover Synthetic,
 Federal Specification MIL-R-6855, Class 11, Grade 60

- NOTES:
1. Make from Bell Standard Stock and purchase from Bell Helicopter Code Ident 97499.

Figure D-158.



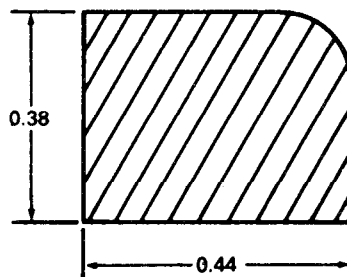
PART NO.	NOMENCLATURE	MAKE FROM NSN	LENGTH
209-060-810-13	SEAL	5330-00-811-1526	26.00
209-060-900-67	SEAL	5330-00-811-1526	102.00
209-060-902-51	SEAL	5330-00-811-1526	3.90
209-060-903-35	SEAL	5330-00-811-1526	13.20
209-060-903-37	SEAL	5330-00-811-1526	13.20

N O T E S :

1. Make from 150-20A Extrusion, Johns Mansville Products, Code Ident 92789.

Part Number: (See Above) SEAL
 Fabricate from: NSN 5330-00-811-1526
 Material: Rubber Extrusion Synthetic, 0.375 in dia.

Figure D-159



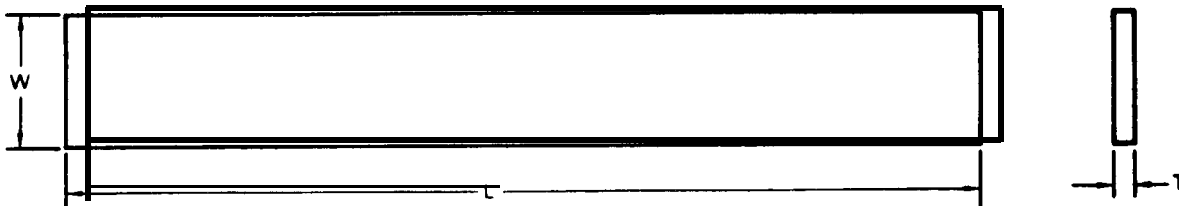
PART NO.	NOMENCLATURE	MAKE FROM	WIDTH	HEIGHT	LENGTH
209-033-101-49	SEAL	9390-00-627-1075	0.44	0.38	65.00

NOTES:

1. Make seal from Bell Standard 110-017-1 Stock and may be purchased from Bell Helicopter, Fort Worth, Texas.

Part Number: 209-033-101-49 SEAL
 Fabricate from: NSN 9390-00-627-1075
 Material: Seal Rubber, Federal Specification
AMS3195, Grey or Black Color

Figure D-160.



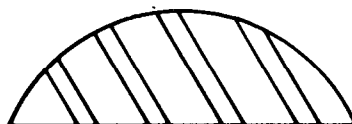
PART NO.	NOMENCLATURE	MAKE FROM NSN	THICK	WIDE	LENGTH
209-060-811-41	S E A L	9320-00-024-9742	0.062	1.00	2.0
209-060-811-51	S E A L	9320-00-024-9742	0.062	1.00	2.0
209-060-811-65	S E A L	9320-00-024-9742	0.062	1.00	35.60
209-060-811-67	SEAL	9320-00-024-9742	0.062	1.00	4.50
209-060-811-69	SEAL	9320-00-024-9742	0.062	1.00	28.2
209-060-811-71	SEAL	9320-00-241-9740	0.032	1.00	4.0
209-060-811-91	SEAL	9320-00-202-1846	0.043	0.50	8.0

Part Number: (See Chart) SEAL
 Fabricate from: NSN 5240-00-
 Material : Rubber Seal Sheet Style PT351-24,

NOTE:

1. Make Seal from Style PT351 -24 and purchase from Apex Rubber Company, Code Ident 88751, Philadelphia, Pa.

Figure D-161



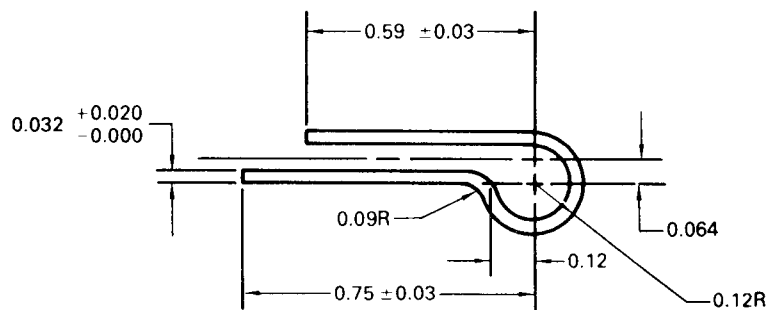
NOTES:

1. Make from X-224 by 1.0 LM Rubber and purchase from Atlantic India Rubber Works, Chicago, Ill., Code Ident 74084.
2. Length is 1.0 inch.

Part Number: 209-060-811-77 BUMPER
Fabricate from: NSN 9320-00-241-9763
Material: Rubber, Federal Specification MIL-R-6855 CLD, Grade 60, Extrusion X-224, and 1.0 in long.



Figure D-162



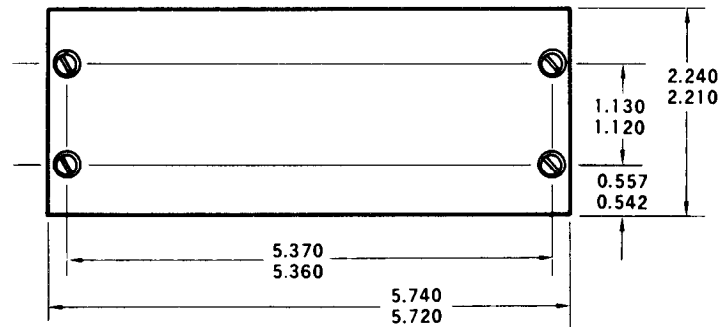
PART NO.	NOMENCLATURE	MAKE FROM NSN	LENGTH
209-071-037-25	EDGING	9390-01-057-9738	26.2
209-071-038-37	EDGING	9390-01-057-9738	16.0
209-071-039-29	EDGING	9390-01-057-9738	9.0
209-071-046-23	EDGING	9390-01-057-9738	12.0

Part Number: (See chart) EDGING
Fabricate from: NSN 9390-01-057-9738
Material: Rubber Extrusion, Federal Specification
MIL-R-6855, Class III, Grade 60, Synthetic,
Color Black

NOTES:

1. Make from Bell Standard 40-001 Stock and purchase from Bell Helicopter, Code Ident 97499.

Figure D-163.
Figure D-163.



Part Number: 204-075-266-37 COVER PLATE
Fabricate from: NSN 9515-00-518-4783
Material: 5052 Aluminum Alloy
 Federal Specification QQ-A-318/5 T3
 0.063 inch thick, 2.0 inch wide, 6.2 inch long

Figure D-164

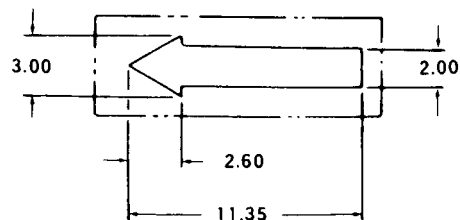
REMOVE BEFORE FLIGHT

NOTE:

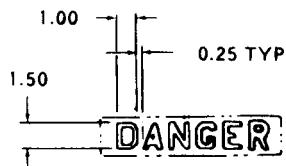
LETTERS TO BE 0.5 INCH HIGH SPACED
APPROXIMATELY AS SHOWN

Part Number: 204-070-485-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Federal Specification
 I-U-625, Type 2 Grade 1, 0.018 in thk

Figure D-165.



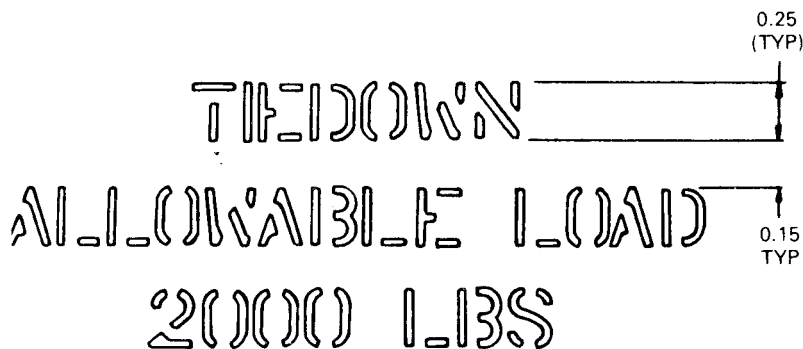
209-070-603-1



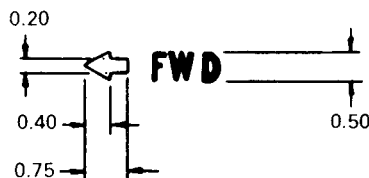
209-070-603-3

Part Number: 209-070-603-1 STENCIL
209-070-603-3 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled, Federal
Specification UU-S-625 Type 2, Grade 1, 0.018 thick.

Figure D-166.



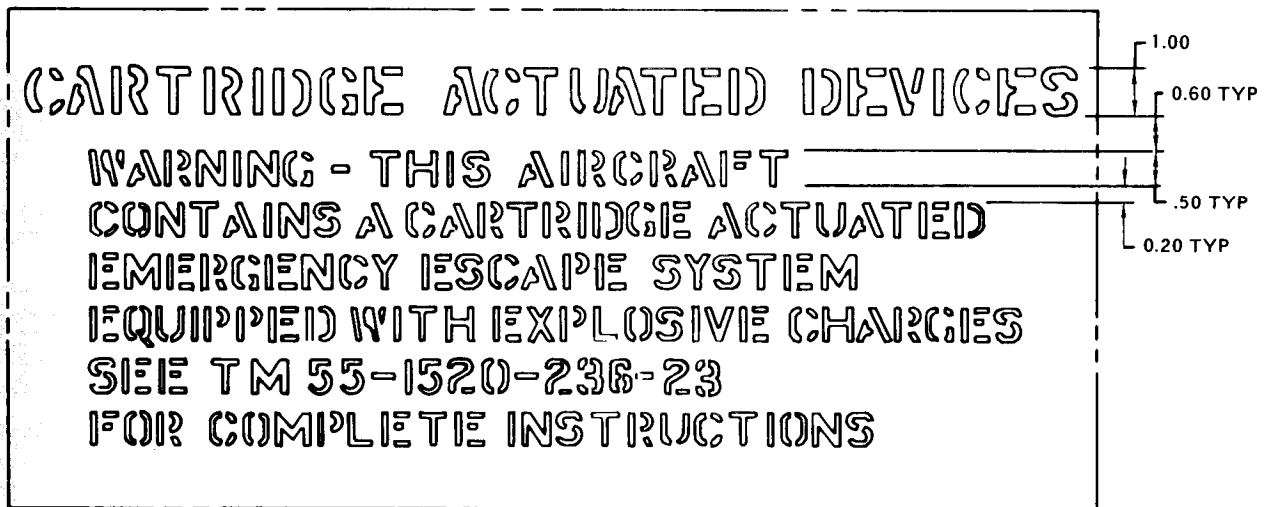
209-070-616-1



209-070-630-1

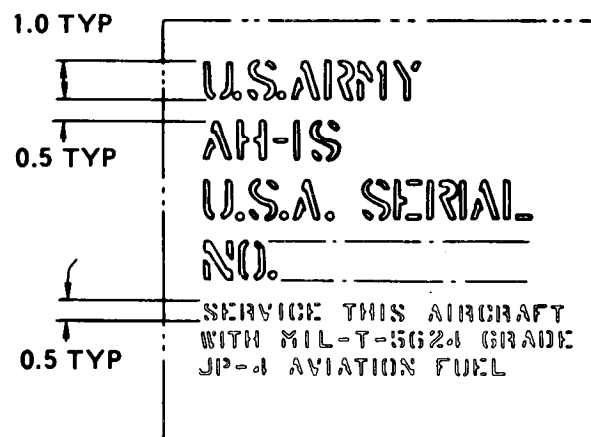
Part Number: 209-070-616-1 STENCIL
209-070-630-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled, Federal
Specification UU-S-625 Type 2, Grade 1, 0.018 in thk.

Figure D-167.



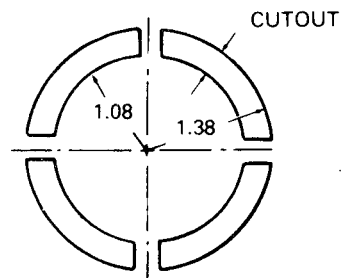
Part Number: 209-070-682-3 STENCIL
Fabricated from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled, Federal
Specification UU-S-625, Type 2,
Grade I, 0.018 thk.

Figure D-168



Part Number: 209-070-698-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled, Federal
Specification UU-S-625 Type 2,
Grade I, 0.018 in thk.

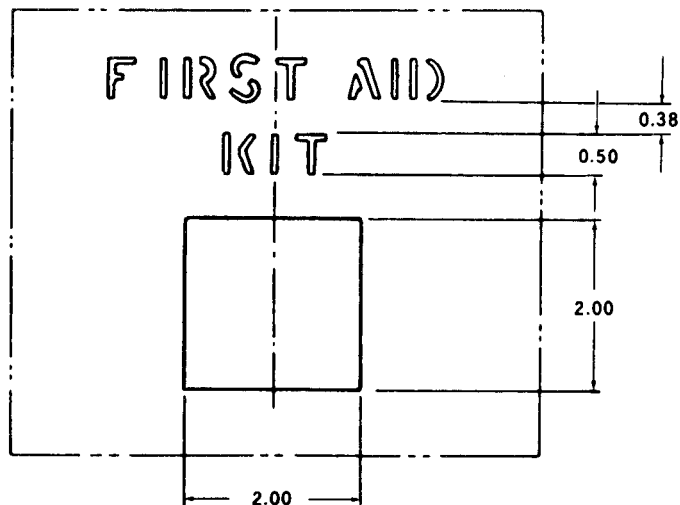
Figure D-169.



204-070-805-3

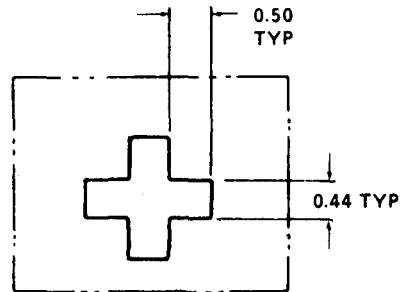
Part Number: 204-070-806-3 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Federal Specification
 UU-S-625, Type 2, Grade 1, 0.018 in thk.

Figure D-170.



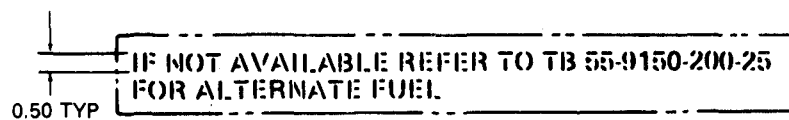
Part Number: 204-070-838-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Federal Specification
 UU-S-625, Type 2, Grade 1, 0.018 in thk.

Figure D-171.



Part Number: 204-070-839-1 STENCIL
Fabricate from: NSN 9310-00-262-6797
Material: Stencil Board, Federal Specification
 UU-S-625, Type 2, Grade 1,
 0.018 in thk.

Figure D-172.



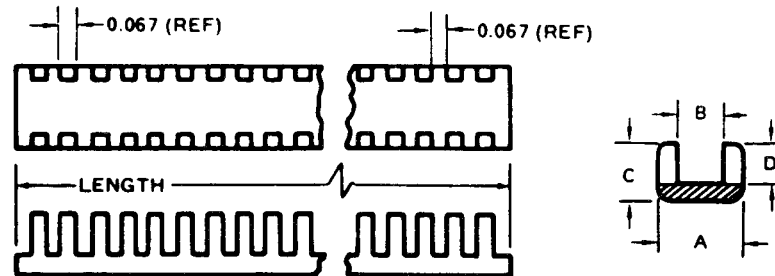
Part Number: 205-070-882-1 STENCIL
Fabricate from: 9310-00-262-6797
Material: Stencil Board Federal Specification
 UU-S-625, Type 2, Grade 1, 0.018 in thk

Figure D-173.



Part Number:	205-072-866-1 STENCIL
Fabricate from:	NSN 9310-00-265-6797
Material:	Stencil Board, Oiled, Federal Specification UU-S-625 Type 2, Grade 1, 0.018 inch thick

Figure D-174

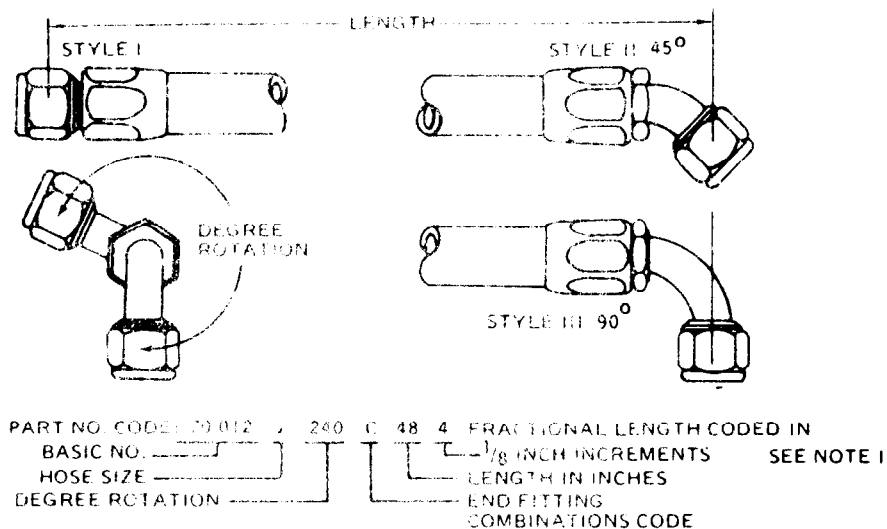


GROMMET

PART NUMBER	A	B	C	D	LENGTH	NSN
60-003-1N9	0.150	0.056	0.155	0.100	2.25	5325-00-960-2410
60-003-1N12	0.150	0.056	0.155	0.100	3.00	5325-00-960-2410
60-003-1N13	0.150	0.056	0.155	0.100	3.25	5325-00-960-2410
60-003-1N16	0.150	0.056	0.155	0.100	4.00	5325-00-960-2410
60-003-1N18	0.150	0.056	0.155	0.100	4.50	5325-00-960-2410
60-003-3N14	0.220	0.131	0.155	0.100	3.50	5325-00-926-1394
60-003-4N40	0.325	0.195	0.230	0.160	10.00	5325-00-923-9512
60-003-5N25	0.640	0.515	0.255	0.180	6.25	5325-00-946-4275
60-003-5N31	0.640	0.515	0.255	0.180	7.75	5325-00-946-4275
60-003-5N48	0.640	0.515	0.255	0.180	12.00	5325-00-946-4275

Fabricate from: NSN See Chart
 Material: Nylon per MIL-P-20693 Type I

Figure D-175



HOSE SIZE	3	4	5	6	8	10	12	16	20	24	32	TUBING O.D. IN 1/16 IN. INCREMENTS
WITHOUT CHAFE GUARD	E	F	G	H	J	K	L	M	N	P	R	
WITH CHAFE GUARD SEE NOTE 2	S	T	U	V	W	X	Y	Z	A	B	C	

STYLES AND MATERIAL SERIES OF END FITTINGS (FLARELESS)				
COMBINA-TIONS CODE	SERIES	FITTING STYLE	SERIES	FITTING STYLE
A	Lt Wt Alum	I	Lt Wt Alum	I
B	Lt Wt Alum.	II	Lt Wt Alum.	II
C	Lt Wt Alum.	III	Lt Wt Alum.	III
D	Cres	I	Cres	I
E	Cres	II	Cres	II
F	Cres	III	Cres	III
G	Lt Wt Alum.	I	Cres	III
H	Lt Wt Alum	I	Cres	II
T	Lt Wt Alum	I	Lt Wt Alum	II
V	Lt Wt Alum.	I	Lt Wt Alum	III
W	Lt Wt Alum.	II	Lt Wt Alum	III
X	Cres	I	Cres	II
Y	Cres	I	Cres	III
Z	Cres	II	Cres	III

Figure D-176 (Sheet 1 of 2)

EXAMPLE OF CALLOUT:

70-012J240C484 = Hose assembly TFE, 0.5 inch O.D. 240° rotation, 90° aluminum flareless fittings both ends, 48.5 inches long, without chafe guard.

70-012W005C484 = Hose assembly TFE, 0.5 inch O.D., 5° rotation, 90° aluminum flareless fittings both ends, 48.0 inches long, with chafe guard.

Notes: 1. Fractional length hoses are specified in the following increments only:

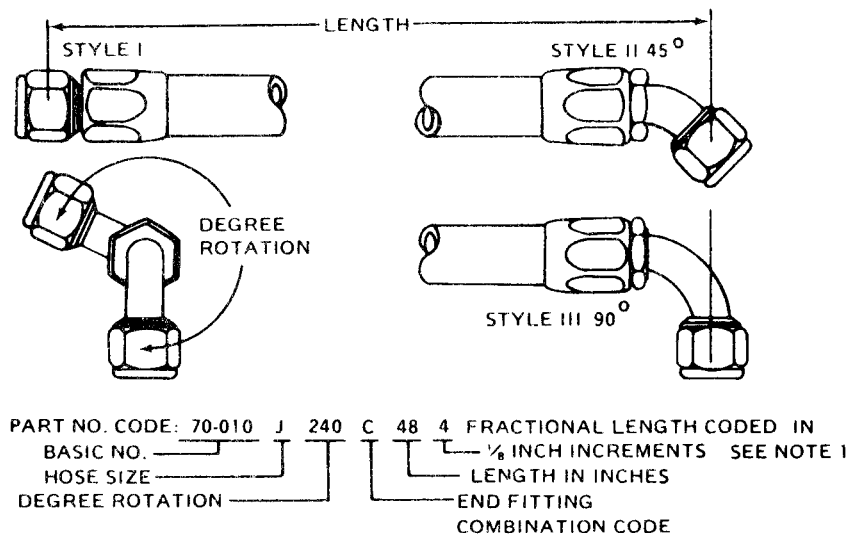
- (a) Under 18 inches long = 1/4 inch increments only.
- (b) Over 18 inches long = 1/2 only.

- 2. Chafe guard is translucent vinyl plastic per MIL-I-7444 type 1. Ends of chafe guard must be within 0.19 of fittings each end. Chafe guard (NSN 5970-00-813-9460) limited to 185 maximum temperature.

HOSE ASSEMBLY, FLARELESS, HIGH TEMP, MEDIUM PRESSURE

HOSE PART NUMBER	HOSE MATERIAL NSN	END FITTING NSN	END FITTING NSN
70-012FOOOA072	4720-00-657-1732	4730-00-054-7650	4730-00-054-7650
70-012FOOOA132	4720-00-857-1 732	4730-00-054-7650	4730-00-054-7650
70-012FOOOA156	4720-00-857-1732	4730-00-054-7650	4730-00-054-7650
70-012FOOOA212	4720-00-857-1732	4730-00-064-7650	4730-00-054-7650
70-012FOOOA214	4720-00-857-1732	4730-00-054-7650	4730-00-054-7650
70-012FOOOA220	4720-00-857-1732	4730-00-054-7650	4730-00-054-7650
70-012FOOOA241	4720-00-857-1732	4730-00-054-7650	4730-00-054-7650
70-012FOOOT122	4720-00-857-1732	4730-00-054-7650	4730-00-057-0665
70-012FOOOV136	4720-00-857-1732	4730-00-054-7650	4730-00-057-0864
70-012FOOOV154	4720-00-857-1732	4730-00-054-7650	4730-00-057-0664
70-012FOOOV164	4720-00-857-1732	4730-00-054-7650	4730-00-057-0664
70-012F080Z092	4720-00-857-1732	4730-00-057-0665	4730-00-057-0664
70-012G000A120	4720-00-857-1735	4730-00-877-9876	4730-00-877-9876
70-012G000A124	4720-00-857-1735	4730-00-877-9876	4730-00-877-9876
70-012G000V114	4720-00-857-1735	4730-00-877-9876	4730-00-143-9192
70-012H000A145	4720-00-857-1731	4730-00-053-0379	4730-00-053-0379
70-012H000A146	4720-00-857-1731	4730-00-053-0379	4730-00-053-0379
70-012H000A204	4720-00-857-1731	4730-00-053-0379	4730-00-053-0379
70-012H000C096	4720-00-857-1731	4730-00-053-0380	4730-00-053-0380
70-012H000T150	4720-00-857-1731	4730-00-053-0379	4730-00-053-0380
70-012H000T190	4720-00-857-1731	4730-00-053-0379	4730-00-053-0380
70-012H000V116	4720-00-857-1731	4730-00-053-0379	4730-00-126-9819
70-01H000V132	4720-00-857-1731	4730-00-053-0379	4730-00-053-0380
70-012H000V220	4720-00-857-1731	4730-00-053-0379	4730-00-053-0380
70-012H000V260	4720-00-857-1731	4730-00-053-0379	4730-00-053-0380
70-012J000A150	4720-00-815-6354	4730-00-053-0389	4730-00-053-0389
70-012W000V250	4720-00-815-6354	4730-00-053-0389	4730-00-057-0663
70-012W000W166	4720-00-815-6354	4730-00-054-7635	4730-00-057-0663

Figure D-176 (Sheet 2 of 2)



HOSE SIZE	3	4	5	6	8	10	12	16	20	24	32	
WITHOUT CHAFE GUARD	E	F	G	H	J	K	L	M	N	P	R	= TUBING O.D. IN 1/16 IN. INCREMENTS
WITH CHAFE GUARD SEE NOTE 2	S	T	U	V	W	X	Y	Z	A	B	C	

STYLES AND MATERIALS OF END FITTINGS (FLARED)				
COMBINATIONS CODE	MATERIAL	FITTING STYLE	MATERIAL	FITTING STYLE
A	Alum	I	Alum	I
B	Alum	II	Alum	II
C	Alum	III	Alum	III
D	Steel	I	Steel	I
E	Steel	II	Steel	II
F	Steel	III	Steel	III
G	Alum	I	Steel	III
H	Alum	I	Steel	II
T	Alum	I	Alum	II
V	Alum	I	Alum	III
W	Alum	II	Alum	III
X	Steel	I	Steel	II
Y	Steel	I	Steel	III
Z	Steel	II	Steel	III

Figure D-177 (Sheet 1 of 2)

EXAMPLE OF CALLOUT

70-010J240C484 = Hose assembly-non fire resistant, 0.5 inch O.D. 240° rotation, 90° aluminum fittings both ends, 48.5 inches long, without chafe guard

70-010W000C480 = Hose assembly-non fire resistant 0.5 inch O.D., 0° rotation, 90° aluminum fittings both ends, 48.0 inches long, with chafe guard.

Notes: 1. Fractional length hoses are in the following increments only:

(a) Under 18 inches long= 1/4 inch increments only. (2, 4, or 6 only)

(b) Over 18 inches long = 1/2 inch only. (4 only)

2. Chafe guard is translucent vinyl plastic per MIL-L-7444 type I. Ends of chafe guard must be within 0.19 inch of fittings.

HOSE ASSEMBLY NON-FIRE RESISTANT

HOSE PART NUMBER	HOSE MATERIAL NSN	END FITTING NSN	END FITTING NSN
70-010F000D200	4720-00-541-8281	4730-00-618-7378	4730-00-618-7378
70-010F000F190	4720-00-541-9281	4730-00-618-8862	4730-00-618-8862
70-010F000X060	4720-00-541-9281	4730-00-618-7378	4730-00-709-3667
70-010F000Y124	4720-00-541-9281	4730-00-618-7378	4730-00-618-8862
70-010F000Y196	4720-00-541-9281	4730-00-618-7378	4730-00-618-8862
70-01F180Z120	4720-00-541-9281	4730-00-709-3887	4730-00-618-8862
70-010F332F126	4720-00-541-9281	4730-00-618-8862	4730-00-618-8862
70-010H000T204	4720-00-611-2546	4730-00-541-8234	4730-00-613-1859
70-010H045W130	4720-00-611-2548	4730-00-541-8234	4730-00-720-1166
70-010K000A320	4720-00-541-8328	4730-00-541-9105	4730-00-541-9105
70-010K000A494	4720-00-541-8328	4730-00-541-9105	4730-00-541-9105
70-010K000V132	4720-00-541-8328	4730-00-541-9105	4730-00-918-6765
70-010L000A840	4720-00-555-3499	4730-00-541-1957	4730-00-541-1957
70-010L000V072	4720-00-555-3499	4730-00-238-5338	4730-00-541-1957
70-010L090B194	4720-00-555-3499	4730-00-618-7382	4730-00-618-7382

Figure D-177 (Sheet 2 of 2)

HOSE ASSEMBLY

Fabricated from

PART NO.	FAB. FROM NSN	END FITTING	SOCKET	SLEEVE	DUST PLUG
4720-EG008-12-0200-043	4720-00-857-1734	4730-00-017-8846 4730-00-017-8887	4730-00-967-9518	4730-00-967-9526	

FABRICATION NOTES AND INSTRUCTIONS

To maintain the correct t-loose Assembly length, allowances must be made for the various end fittings and the bulk hose cut accordingly. To calculate the correct length of bulk hose (J) use Table. After the allowance (,) are obtained subtract the total from the hose assembly length (L) to obtain bulk hose length (J).

Example: P/N 4720EG007-4C0170 has an assembled length of 17 inches and would use the allowances found in Table under 4720EG007-, Hose Size 4 which is 1.92. Subtract 1.92 from 17 inches to obtain correct bulk hose length (J) of 15.08.

TABLE

Fitting Allowances									
P/Ns With Prefix 4720EG									
	HOSE SIZE								
	3	4	6	6	8	10	12	16	20
4720EG003	1.40	1.48	1.54	1.62	1.86	2.10	2.26	2.60	2.88
4720EG004	1.56	1.65	1.74	1.84	2.24	2.46	3.05	3.35	3.78
4720EG007	1.78	1.92	1.99	2.10	2.72	2.63	3.18	3.44	3.86
4720EG006	1.94	2.09	2.19	2.32	3.10	2.99	3.97	4.19	4.76

FABRICATION NOTES

- To Specify A Required Angle A, Suffix Part No. With Angle In Degrees. Angle Measured Counter Clockwise From Lower Vertical Axis. If Angle Is Not Specified Elbows Shall Point Down At $0^\circ \pm 3^\circ$ On Lengths Up To 24 Inches and $\pm 5^\circ$ On Lengths 24 Inches Or Longer.
- After Proof Testing In Accordance With MIL-H-25579, Flush With Dry Cleaning Solvent NSN 6850-00-264-9037, And Install Protective Plug In Each Fitting.
- Permanent Stainless Steel Identification Band To List As Follows:

NSN _____

P/N _____

OPERATING PRESSURE _____

DATE OF PRESSURE TEST _____

EXAMPLE OF LENGTH: P/N 472EG000-00-0000

INDICATES LENGTH
IN 1/8 INCH
INCREMENTS

INDICATES LENGTH IN INCHES

- Assembly Length Tolerance Up to 9 Inches $\pm 1/16$
9 Inches to 18 Inches $\pm 1/8$
18 Inches to 36 Inches $\pm 1/4$
36 Inches to 50 Inches $\pm 1/2$
Over 50 Inches $\pm 1\%$ of Length

- Assembly Length Is Measured From Sealing Surface To Sealing Surface. On Elbow Fittings The Measuring Point Is The Intersection Of The Elbow With The Face Of The Sealing Surface.

Figure D-178. (Sheet 1 of 2)

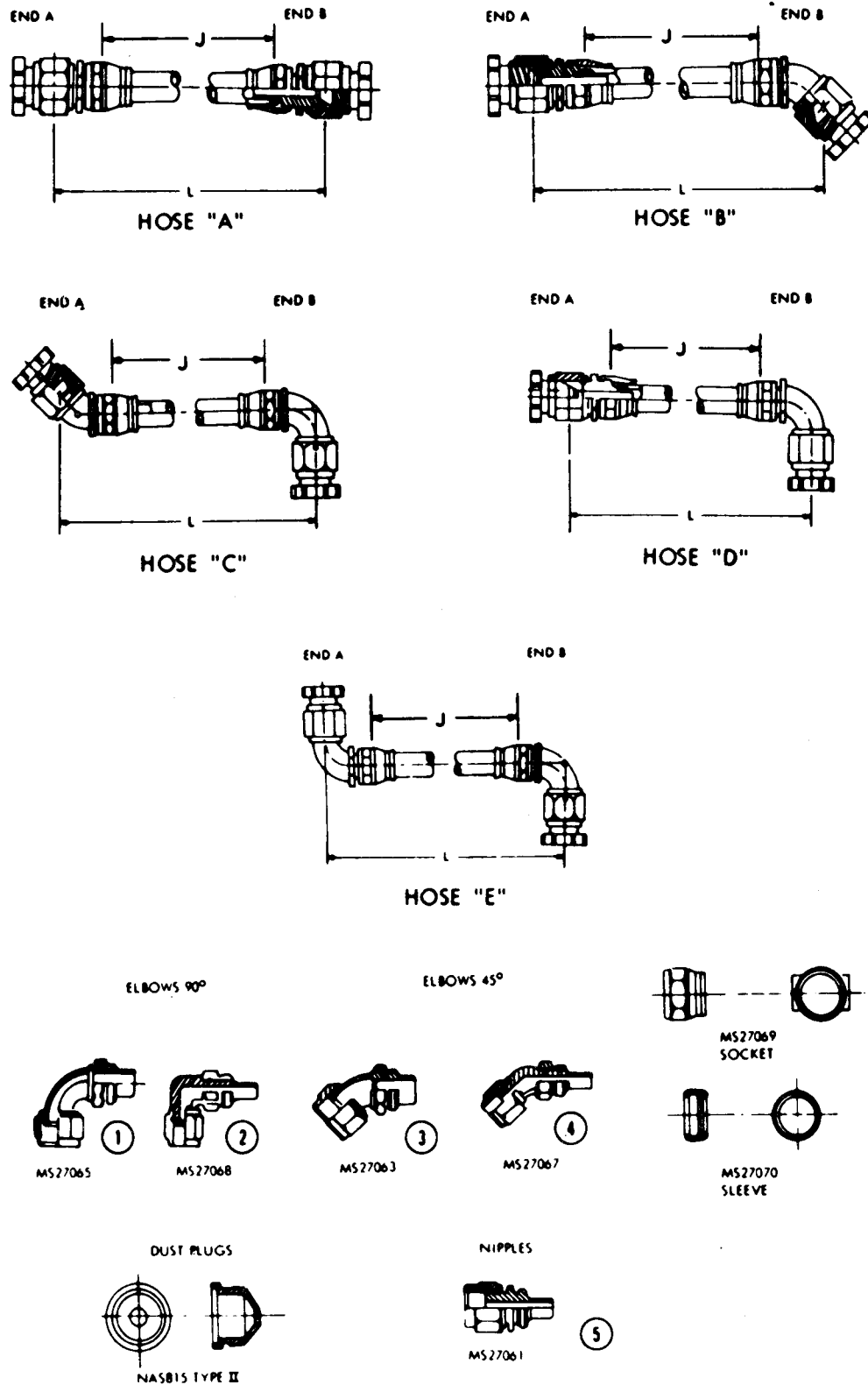
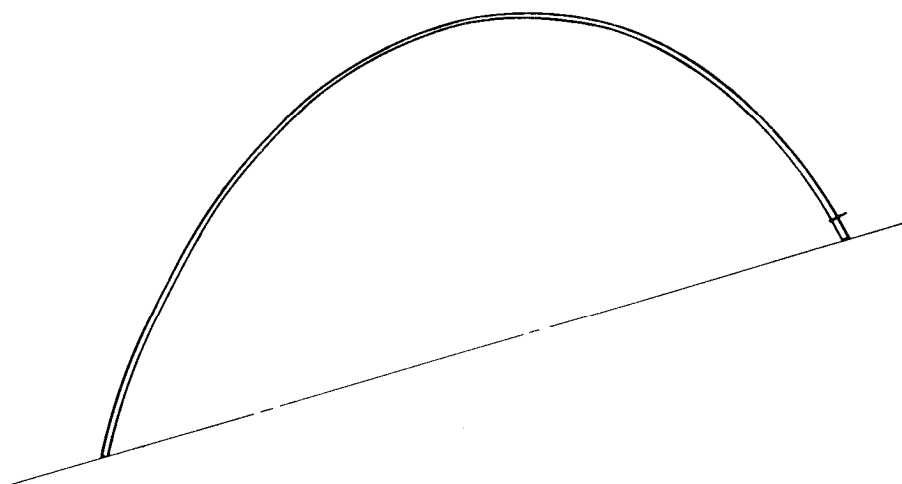


Figure D-178. (Sheet 2 of 2)

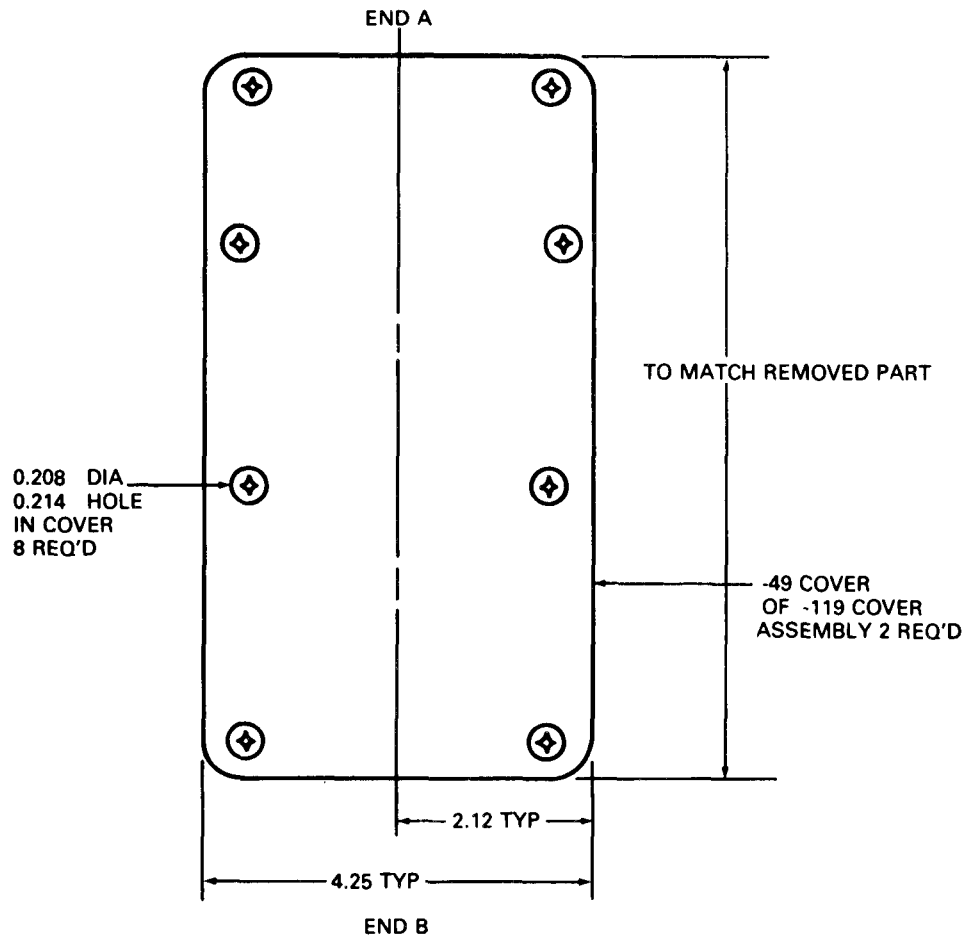


NOTES:

1. Cut material to stock size 15.00 inches wide and 16.00 inches long.
2. Contour material to match leading edge of wing and cut to fit the wing structure.

Part Number: 209-020-001-69 COVER (SHOWN)
209-020-001-70 COVER (OPPOSITE)
Fabricate from: NSN 9535-00-084-4395
Material: Aluminum Alloy, 2024, Federal
Specification QQ-A-250/5, 0.032 in thk,
15.00 in wide, 16.00 in long.

Figure D-179

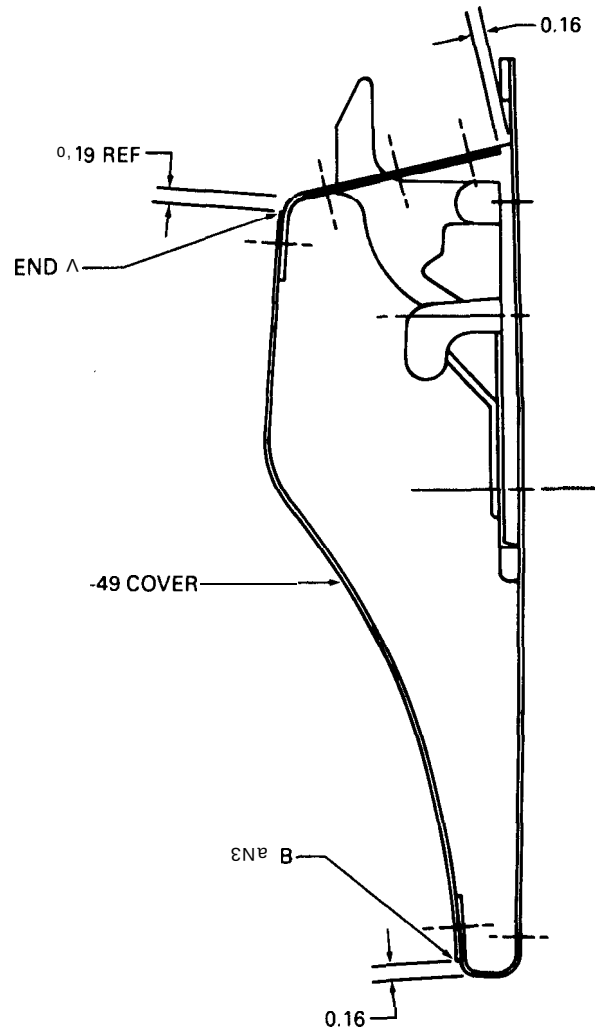


NOTES:

1. Trim .49 Cover to same width as removed cover and cut end A the same radius at the corners.

Part Number: ~~209-030-216-1119~~ **COVER ASSEMBLY**
Fabricate from: ~~NSN 9535-00-084-4851~~
Material: ~~Aluminum Alloy 2024, Federal Specification QQ-A-250/5, 0.040 in thk, 4.7 in wide, 10.0 in long~~

Figure D-180. (Sheet 1 of 2)

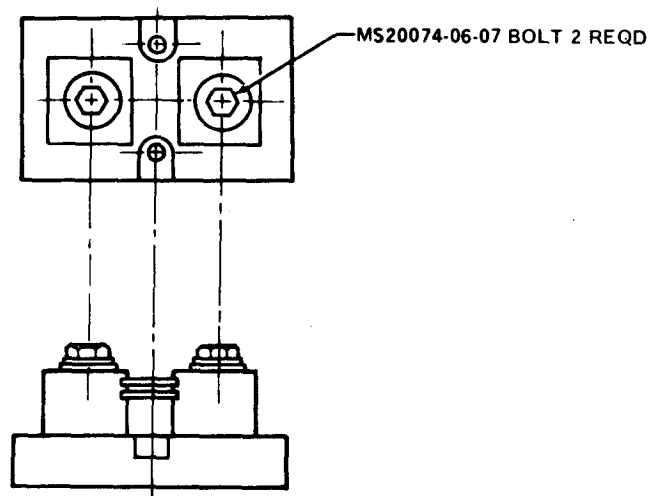


2. Transfer all hole locations to new cover material.
3. Position End A of cover on door and match drill the first two holes in cover to match the nutplates in structure.

Part Number: 209-03 0216-119 COVER ASSEMBLY OF
 Fabricate from: NSN 9535-00-084-4551

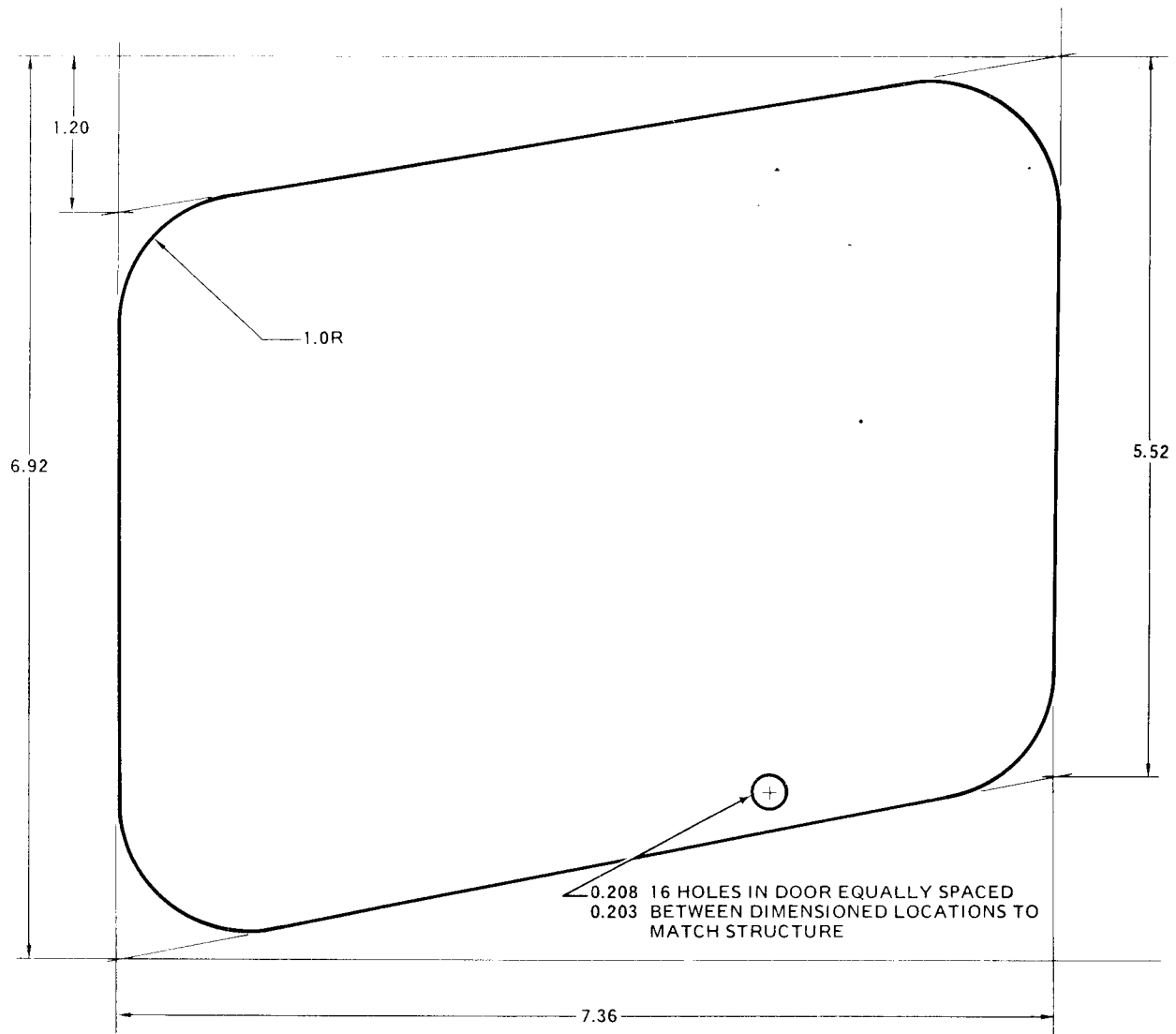


Figure D-180. (Sheet 2 of 2)



Part Number: 204-075-152-3 SHUNT ASSEMBLY
Fabricate from: MS91587-4 Shunt, NSN 6625-00-166-1005
Material: MS91587-4 Shunt
 Install MS20074-06-07 bolts in lieu of
 furnished bolts and washers.

Figure D-181



Part Number: 209-023-001-69 LEFT WING DOOR
 209-023-001-70 RIGHT WING DOOR
Fabricate from: NSN 9535-00-088-6599
Material: 7075 Aluminum Alloy
 Federal Specification QQ-A-250/13 T6
 0.063 inch thick, 6.9 inch wide, 8.1 inch long

Figure D-182



P/N WTKA70SSY-1

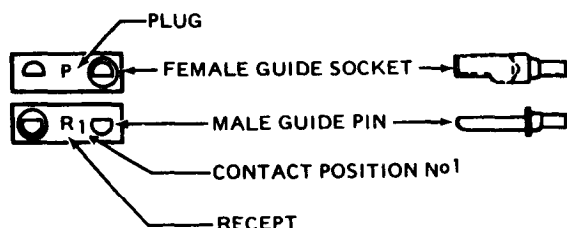


WTKA70SSY-6



WTKA70SSY-11

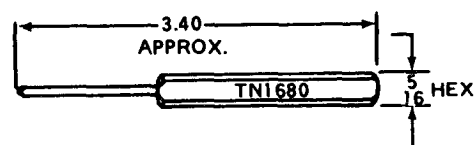
FOR OPTIMUM SAFETY USE POLARIZATION NO. 1-6-11-16-17-22-27-32 WHEN POSSIBLE. THESE POSITIONS WILL EXCLUDE ENTRY OF GUIDE PINS AT BOTH ENDS OF CONNECTORS WHEN AN ATTEMPT IS MADE TO MATE CORRECTLY.



FOR PART CODING ADD APPROPRIATE DASH NUMBER TO PART NUMBER.

EXAMPLE: PLUG WTB20PR7SY-1
RECEPT. WTB20SECSY-1

WTBSY-1 POLARIZING GUIDE SET ONLY
CONSISTS OF: 1—D SHAPED
GUIDE PIN
1—D SHAPED GUIDE
SOCKET
2—SPANNER NUTS
NO. 2-56



NUT SPANNER WRENCH
NSN 5120-01-065-0295

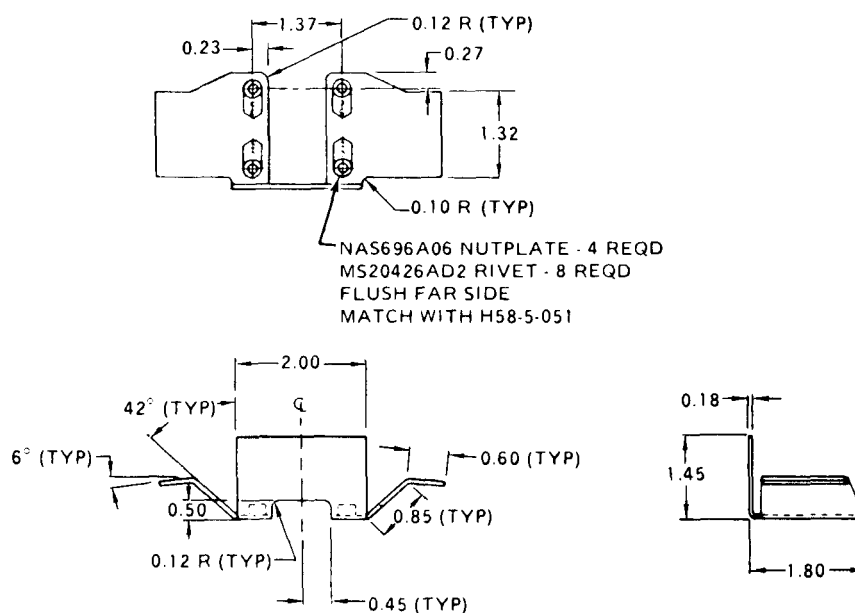
USING THE SPANNER WRENCH SHOWN ABOVE, GUIDES SETS MAY BE REMOVED AND REPOSITIONED IN ANY OF THE 64 POLARIZING POSITIONS.

CAUTION: WHEN POLARIZED POSITIONS ARE CHANGED, APPLY LOCTITE 83-21 TO THREADS.
TL 3257 34 OZ. DISPENSER OF LOCTITE NO. 83-21

PART NUMBER: WTKA0SSY-1 CONNECTOR
WTKA0SSY-6 CONNECTOR
WTKA0SSY-11 CONNECTOR

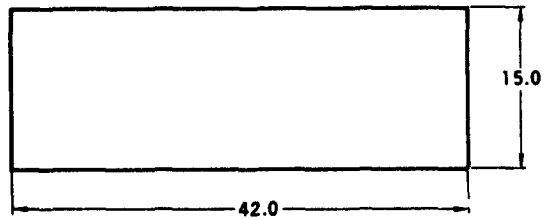
FABRICATE FROM: NSN 5935-01-066-3780
MATERIAL: M55302/65-70X CONNECTOR

Figure D-183



Part Number: 209-060-814-1BRACKET
 Fabricate from: NSN 9535-00-232-0378
 NAS696A06 NUTPLATE NSN 5310-00-619-3547
 MS20426AD2-4 RIVET NSN 5320-00-117-6929
 Material: 2024T42 Al Aly QQ-A-250/4
 0.063 inch thick, 3.6 inch wide, 5.4 inch long

Figure D-184

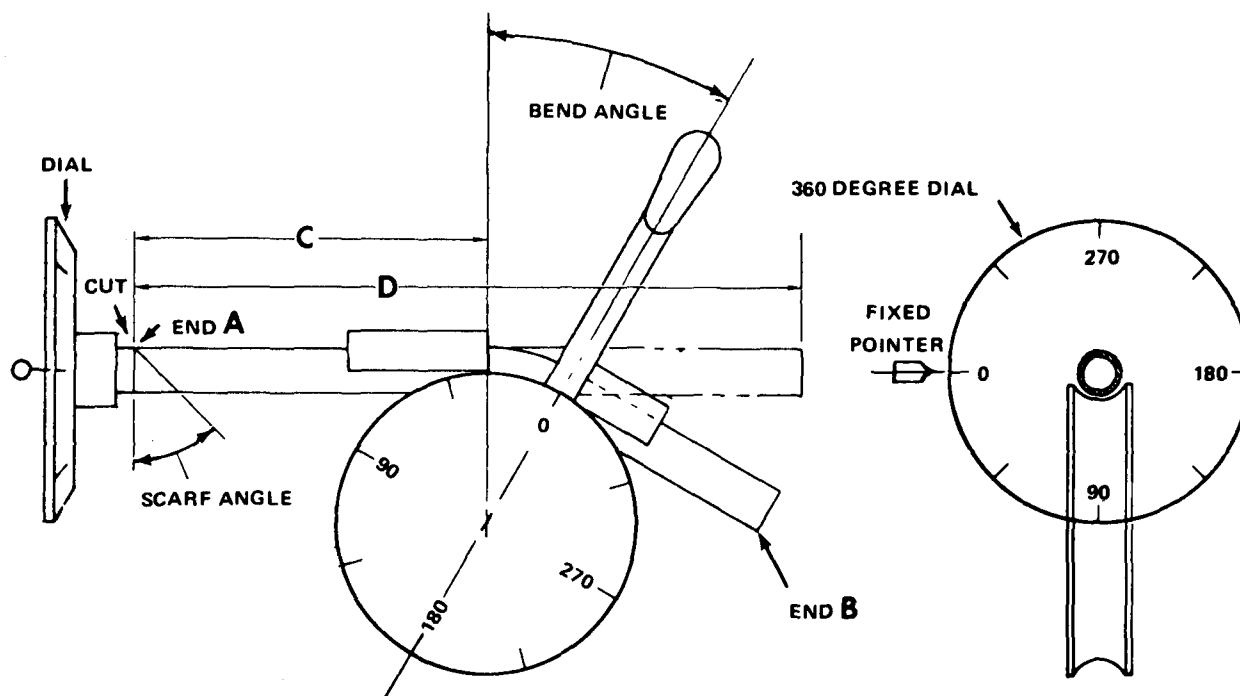


Part Number: 1560-AH1-080-3 FOD SCREEN WIRE

Fabricate from: NSN 5335-00-228-9829

Material: Stainless Steel, MIL-S-25057A
15.0 In. Wide, 42.0 In. Long

Figure D-185.



NOTES

1. Select material and end fittings from Table D-1.
2. Refer to Tube Bending Data, Table D-2, for all dimensions, angles, and dial settings.
3. Mark dimension "C" for each bend, and dimension "D" prior to bending.
4. Make first bend with dial set at 0 deg. and rotate dial to "right" (clockwise) and make remaining bends at specified dial settings.
5. Cut "A" end after bending. If scarf is required set dial and cut to specified angle.
6. Trim and burr ends "A" and "B" as necessary.
7. Bend radii shall conform to MS33611.
8. Nuts and sleeves installed per MS33566.
9. Pressure test to PSI called out in Tube Fabrication, Table D-2, if applicable.
10. Identify tube assembly by marking Part Number with rubber ink stamp or felt pen.

TYPE OF ENDS

1. Single Flare — MS33584
2. Bead — MS33660, Type "A"
3. Double Flare — MS33583
4. Plain Square
5. Other

Figure D-186. (Sheet 1 of 3)

TUBE BENDING DATA. The information contained in this section discloses, as applicable, quantities of material and fittings, bend radii, angles, dimensions, and all other data required for fabrication of tube assemblies.

- a. Table 1 gives the material and quantities of the stock required to fabricate each tube assembly. The stock dimension column will indicate a length of 2 to 3 inches longer than is actually required for the finished tube. The last column includes the applicable system for each tube assembly, such as fuel, lubrication, etc.
- b. Figure D-186 (example below) illustrates the type of dial marking, end references ("A" and "B"), and dimensional references ("C" and "D"), to coincide with the data on table D-2. The type of ends (1 thru 5) are defined, and the "Notes" are provided for additional information.
- c. Table D-2 includes all the dimensions (inches), angles (degrees), and other information required to fabricate the tube assemblies. The use of table D-2 is described in the following example. The columns are numbered for reference only.

EXAMPLE

1	2	3	4	5	6	7
PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING
		DIMENSION "D"	TYPE END "B"	TYPE END "A"	PRESSURE TEST	AND NOTES
209-061-619-1	1	10.0625	0.5625	0	45	A - AN818-4D MS20819-4D B - Scarf Dial Setting 320
	2	9.125	0.5625	185	68	
		11.375	3	5	N/A	

Column 1. PART NUMBER - Tube part number in alpha - numerical order.

Column 2. BEND NO. - Bend number 1, 2, etc., numbering from "B" end of tube, The last block in Column 2 will be blank.

Column 3. DIMENSION "C" FROM "B" END - Refer to example. Dimension "C" is the distance from "A" end before bending, to the beginning point of each bend to be performed. (See example.) "C" dimension for No.1 bend is 10.0625 inch. "C" dimension for No.2 bend is 9.125 inch.

DIMENSION "D" - Dimension "D" is the exact tube length before tube is bent, including allowances for flaring or beading ends. (See example.) "D" dimension is 11.375 inches.

Column 4. BEND RADIUS - Specifies the radius of each bend. (See example.) Bend radius for Nos.1 and 2 bends is 0.5625 inch.

TYPE END "B" - Refers to type of end (1 thru 5). See figure D-186, "Type of Ends", for definition. (See example.) Type of end "B" is 3, indicating a double flare.

Figure D-186. (Sheet 2 of 3)

Column 5. DIAL SETTING – The dial setting is the degree of tube rotation from plane of first bend. The dial setting (degree of tube rotation) will depend on the type of dial marking used. The dial settings referenced in table D-2 correspond to the type of dial marking illustrated in figure D-186.

TYPE OF END “A” – Refers to type of end (1 thru 5). See figure D-186 “Type of Ends”, for definition. (See example.) Type of end “A” is 3. with the note indicating “Angle 45 Degree Scarf. ”

Column 6. BEND — Specifies the degree of bend through which the tube is bent, as shown on page 1. (See example,) The bend angle (degree of bend) for first bend is 45 degrees, second bend is 68 degrees.

NOTE

This is the actual number of degrees required in the bend. When pressure is released from the tube bender, a small amount of “spring back” varying in proportion to hardness and elongation characteristics of the tubing will necessitate a certain amount of over-run to accomplish the exact bend angle.

PRESSURE TEST — The pressure test, if applicable, is indicated in psi (pounds per square inch). (See example.) Pressure test is indicated as N/A, meaning “Not Applicable”.

Column 7. END FITTINGS AND NOTES – The part number of end fitting, if required, and their identity to the correct end (“A” and “B”) are referenced. Additional notes will be included in this column, as required. (See example.) The end fittings for “A” end are AN818-4D and MS20819-4D. For “B” end, no fittings are required. A scarf is cut on end “B”. with dial setting at 320 degrees.

Figure D-186. (Sheet 3 of 3)

TUBE ASSY. PART NO.	FABRICATE FROM NSN	STOCK DIM			END FITTING				QTY	SYSTEM
		O.D.	W.T.	L.	NUT NSN		SLEEVE NSN			
209-033-268-1	4710-00-278-6402	0.375	0.028	17.0	4730-00-142-2167	2	4730-00-278-6070	2		DRAIN
204-040-215-19	4710-00-074-2936	0.375	0.035	10.50	4730-00-142-2167	2	4730-00-595-3102	2		LUBE
204-040-215-27	4710-00-074-2936	0.375	0.035	10.56	4730-00-142-2167	2	4730-00-595-3102	2		LUBE
204-040-722-1	4710-00-278-3291	0.25	0.035	15.0	4730-00-287-0289	2	4730-00-302-0678	2		LUBE
204-040-723-1	4710-00-278-0391	0.25	0.035	15.0	4730-00-222-1912	2	4730-00-278-0678	2		LUBE
204-040-838-1	4710-00-278-8745	0.75	0.035	23.0	4730-00-287-0285	2	4730-00-433-3377	2		LUBE
209-030-311-1	4710-00-278-6402	0.375	0.028	8.375	4730-00-142-2167	2	4730-00-278-0682	2		LUBE
209-030-312-1	4710-00-278-6402	0.375	0.028	8.0	4730-00-142-2167	2	4730-00-278-0682	2		LUBE
209-030-661-1	4710-00-278-6402	0.375	0.028	23.5	4730-00-142-2167	2	4730-00-278-0682	2		LUBE
209-030-662-1	4710-00-278-6402	0.375	0.028	11.0	4730-00-142-2167	2	4730-00-378-0682	2		LUBE
209-030-663-1	4710-00-278-6402	0.375	0.028	33.0	4730-00-142-2167	2	4730-00-278-0682	1		LUBE
209-033-266-1	4710-00-278-6402	0.375	0.028	17.0	4730-00-142-2167	2	4730-00-278-0682	2		DRAIN
209-033-267-1	4710-00-278-6402	0.375	0.028	12.0	4730-00-142-2167	2	4730-00-278-0682	2		DRAIN
209-040-158-1	4710-00-541-4932	0.250	0.028	19.0	4730-00-287-0289	1	4730-00-302-8641	1		LUBE
209-040-211-1	4710-00-595-2416	0.625	0.028	48.0	4730-00-287-0290	2	4730-00-277-5358	2		LUBE
209-040-214-1	4710-00-595-2416	0.625	0.028	36.5	4730-00-287-0290	2	4730-00-277-5358	2		LUBE
209-040-215-1	4710-00-595-2416	0.625	0.028	8.0	4730-00-287-0290	2	4730-00-277-5358	2		LUBE
209-040-216-1	4710-00-278-6402	0.375	0.028	10.0	4730-00-142-2167	1	4730-00-278-6070	1		LUBE
209-040-511-1	4710-00-278-8726	0.375	0.028	7.0	4730-00-142-2167	2	4730-00-278-6070	2		LUBE
209-060-223-1	4710-00-278-8723	1.00	0.035	37.0	4730-00-222-1915	2	4730-00-277-5353	2		PNEU
209-060-224-1	4710-00-278-8723	1.00	0.035	19.44	4730-00-222-1915	1	4730-00-287-0065	1		PNEU
209-060-427-1	4710-00-825-5894	0.25	0.020	16.0	4730-01-096-7986	1	4730-00-278-0678	2		AIR
209-040-216-1	4710-00-278-6402	0.375	0.028	10.0	4730-00-142-2167	1	4730-00-278-6070	1		LUBE
*209-040-245-101	4710-00-278-8740	0.625	0.035	9.0	4730-00-287-0290	2	4730-00-277-5358	2		LUBE
*209-040-246-101	4710-00-278-8740	0.625	0.035	7.00	4730-00-287-0290	2	4730-00-277-5358	2		LUBE
209-040-511-1	4710-00-278-8726	0.375	0.028	7.0	4730-00-142-2167	2	4730-00-278-6070	2		LUBE
209-060-223-1	4710-00-278-8723	1.00	0.035	37.0	4730-00-222-1915	2	4730-00-277-5353	2		PNEU
209-060-224-1	4710-00-278-8723	1.00	0.035	19.44	4730-00-222-1915	1	4730-00-287-0065	1		PNEU
*209-060-245-101	4710-00-278-8740	0.625	0.035	74.00						AIR
*209-060-254-101	4710-00-278-6398	0.250	0.035	12.00	4730-00-203-2658	2	4730-00-580-7471	2		LUBE
*209-060-255-101	4710-00-278-6398	0.250	0.035	12.00	4730-00-203-2658	2	4730-00-580-7471	2		LUBE
*209-060-264-101	4710-00-278-8740	0.625	0.035	29.20	4730-00-580-6655	2	4730-00-541-9088	2		AIR
209-060-427-1	4710-00-825-5894	0.25	0.020	16.0	4730-00-096-7986	1	4730-00-278-0678	2		AIR
209-060-505-1	4710-00-278-8726	0.375	0.035	6.0	4730-00-142-2167	2	4730-00-278-6070	2		LUBE
209-060-537-1	4710-00-595-2416	0.625	0.028	24.5	4730-00-287-0290	2	4730-00-277-5358	2		LUBE
209-060-544-1	4710-00-278-6398	0.25	0.035	44.0	4730-00-287-0289	2	4730-00-302-0678	2		LUBE
209-060-545-1	4710-00-278-6398	0.25	0.035	11.0	4730-00-287-0289	1	4730-00-302-0678	1		LUBE
209-060-558-1	4710-00-278-6402	0.375	0.028	42.0	4720-00-142-2167	2	4730-00-278-0682	2		LUBE
209-060-559-1	4710-00-278-6402	0.375	0.028	11.0	4730-00-142-2167	2	4730-00-278-0682	2		LUBE
209-060-560-1	4710-00-278-6402	0.375	0.028	44.0	4730-00-142-2167	2	4730-00-278-0682	2		LUBE
209-060-567-1	4710-00-278-6402	0.625	0.028	20.0	4730-00-287-0290	2	4730-00-277-5357	2		LUBE
209-060-568-1	4710-00-278-8745	0.750	0.035	23.0	4730-00-287-0285	2	4730-00-433-3377	2		LUBE
209-060-571-1	4710-00-278-6402	0.375	0.028	13.0	4730-00-142-2167	2	4730-00-278-0682	2		LUBE
209-060-572-1	4710-00-278-6402	0.375	0.028	10.0	4730-00-142-2167	2	4730-00-278-0682	2		LUBE
209-060-574-1	4710-00-595-2416	0.625	0.028	13.0	4730-00-287-0290	2	4730-00-277-5357	2		LUBE
209-060-575-1	4710-00-278-7954	0.75	0.028	7.0	4730-00-287-0285	2	4730-00-433-3377	2		LUBE
209-060-586-1	4710-00-278-8726	0.375	0.035	32.0	4730-00-142-2167	2	4730-00-278-0682	2		LUBE
209-060-587-1	4710-00-541-4932	0.250	0.028	11.0	4730-00-222-1912	2	4730-00-278-0678	2		LUBE
209-060-622-1	4710-00-278-6402	0.375	0.028	39.0	4730-00-142-2167	1	4730-00-278-0682	1		FUEL
209-060-624-1	4710-00-278-7954	0.75	0.028	12.0	4730-00-287-0285	1	4730-00-433-3377	1		FUEL
209-060-625-1	4710-00-278-6402	0.375	0.028	61.0	4730-00-142-2167	1	4730-00-278-0682	1		FUEL
209-060-634-1	4710-00-541-4932	0.25	0.028	12.5	4730-00-287-0289	2	4730-00-302-0678	2		LUBE
209-060-637-1	4710-00-541-4932	0.25	0.028	10.0	4730-00-287-0298	2	4730-00-302-0678	2		LUBE
209-060-643-1	4710-00-595-2416	0.625	0.028	16.0	4730-00-287-0290	1	4730-00-277-5357	1		FUEL
209-060-680-1	4710-00-541-4932	0.25	0.028	13.0	4730-00-287-0289	1	4730-00-302-0678	1		FUEL
209-060-690-1	4710-00-278-6402	0.375	0.028	3.0		0		0		FUEL
209-060-691-1	4710-00-541-4932	0.25	0.028	11.0	4730-00-287-0289	1	4730-00-302-0678	1		FUEL
209-060-695-101	4710-00-278-6402	0.375	0.028	65.0	4730-00-142-2167	1	4730-00-278-0682	1		FUEL

* After incorporation of MWO 55-1520-236-50-12

Table D-1 (Sheet 1 of 5)

TUBE ASSY. PART NO.	FABRICATE FROM NSN	STOCK DIM			END FITTING			QTY	SYSTEM
		O.D.	W.T.	L.	NUT NSN	QTY	SLEEVE NSN		
209-063-531-1	4710-00-853-3497	0.250	0.028	11.0	4730-00-203-2658	2	4730-00-580-7471	2	LUBE
209-063-532-1	4710-00-853-3497	0.250	0.028	12.0	4730-00-203-2658	2	4730-00-580-7471	2	LUBE
209-063-533-1	4710-00-853-3497	0.250	0.028	12.0	4730-00-203-2658	2	4730-00-580-7471	2	LUBE
209-070-450-1	4710-00-278-7959	1.0	0.020	16.0	4730-00-222-1915	1	4730-00-277-5353	1	PNEU
209-070-487-1	4710-00-279-0195	1.0	0.020	20.0					PNEU
209-070-497-1	4710-00-279-0195	1.00	0.020	14.5					PNEU
209-070-525-1	4710-00-961-9291	1.00	0.020	28.0					PNEU
209-070-543-1	4710-00-279-0195	1.00	0.035	11.0					PNEU
209-070-588-1	4710-00-278-8723	1.00	0.035	55.0	4730-00-222-1915	1	4730-00-277-5353	1	PNEU
209-072-468-1	4710-00-278-8010	0.375	0.020	25.0	4730-00-595-3102	2	4730-00-142-2167	2	PNEU
209-073-473-1	4710-00-278-8010	0.375	0.020	12.0	4730-00-595-3102	1	4730-00-142-2167	1	PNEU
209-073-530-1	4710-00-213-6717	0.250	0.020	21.0	4730-00-278-0678	2	4730-00-287-0289	2	PNEU
209-073-819-1	4710-00-213-6717	0.250	0.020	30.0	4730-00-278-0678	2	4730-00-287-0289	2	PNEU
209-076-118-1	4710-00-287-1841	0.375	0.035	16.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-119-1	4710-00-287-1841	0.375	0.035	17.0	4730-00-142-2167	1	4730-00-278-6070	1	HYD
					4730-00-554-7397	1	4730-00-554-7398	1	HYD
209-076-141-1	4710-00-289-2788	0.50	0.035	16.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-149-1	4710-00-287-1841	0.375	0.035	14.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD

Table D-1 (Sheet 2 of 5)

TUBE ASSY. PART NO.	FABRICATE FROM NSN	STOCK DIM			END FITTING			QTY	SYSTEM
		O.D.	W.T.	L.	NUT NSN		SLEEVE NSN		
209-076-150-1	4710-00-287-1841	0.375	0.035	12.00	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-151-1	4710-00-287-1841	0.375	0.035	13.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-152-1	4710-00-287-1841	0.375	0.035	12.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-153-1	4710-00-287-1841	0.375	0.035	24.0	4730-00-554-7397	2	4720-00-554-7398	2	HYD
209-076-154-1	4710-00-287-1841	0.375	0.035	19.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-155-1	4710-00-287-1841	0.375	0.035	19.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-156-1	4710-00-287-1841	0.375	0.035	24.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-202-1	4710-00-142-3010	0.50	0.035	22.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-205-1	4710-00-142-3010	0.50	0.035	17.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-207-1	4710-00-142-3010	0.50	0.035	22.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-208-1	4710-00-287-1841	0.375	0.035	16.0	4730-00-554-7497	2	4730-00-554-7398	2	HYD
209-076-209-1	4710-00-289-2537	1.0	0.049	12.0					
209-076-212-1	4710-00-142-3010	0.50	0.035	51.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-213-1	4710-00-287-1841	0.375	0.035	13.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-214-1	4710-00-142-3010	0.50	0.035	40.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-215-1	4710-00-142-3010	0.50	0.035	30.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-216-1	4710-00-287-1841	0.375	0.035	25.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-219-1	4710-00-142-3010	0.50	0.035	18.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-220-1	4710-00-142-3010	0.50	0.035	28.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-221-1	4710-00-289-2781	0.250	0.035	12.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-232-1	4710-00-142-3009	5/16	0.035	8.0	4730-00-555-8012	2	4730-00-289-8620	2	HYD
209-076-234-1	4710-00-287-1841	0.375	0.035	10.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-235-1	4710-00-289-2781	0.250	0.035	17.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-237-1	4710-00-289-2781	0.250	0.035	14.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-238-1	4710-00-289-2781	0.250	0.035	8.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-241-1	4710-00-289-2781	0.250	0.035	35.50	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-242-1	4710-00-142-3009	5/16	0.035	10.0	4730-00-555-8012	2	4730-00-289-8620	2	HYD
209-076-243-1	4710-00-289-2781	0.250	0.035	10.5	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-244-1	4710-00-289-2781	0.250	0.035	14.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-245-1	4710-00-142-3009	5/16	0.035	12.0	4730-00-555-8012	2	4730-00-289-8620	2	HYD
209-076-246-1	4710-00-142-3009	5/16	0.035	19.0	4730-00-555-8012	2	4730-00-289-8620	2	HYD
209-076-247-1	4710-00-289-2781	0.250	0.035	21.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-248-1	4710-00-289-2781	0.250	0.035	13.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-256-1	4710-00-142-3010	0.50	0.035	18.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-258-1	4710-00-142-3010	0.50	0.035	22.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-264-1	4710-00-289-2781	0.250	0.035	13.5	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-265-1	4710-00-289-2781	0.250	0.035	13.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-267-1	4710-00-289-2781	0.250	0.035	22.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-269-1	4710-00-287-1841	0.375	0.035	25.5	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-270-1	4710-00-287-1841	0.375	0.035	17.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-271-1	4710-00-287-1841	0.375	0.035	9.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-274-1	4710-00-287-1841	0.375	0.035	8.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-278-1	4710-00-289-2781	0.250	0.035	22.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-279-1	4710-00-142-3009	5/16	0.035	19.0	4730-00-555-8012	2	4730-00-289-8620	2	HYD
209-076-298-1	4710-00-289-2781	0.250	0.035	18.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-299-1	4710-00-142-3010	0.50	0.035	20.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-302-1	4710-00-142-3010	0.50	0.035	12.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-303-1	4710-00-142-3010	0.50	0.035	24.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-304-1	4710-00-289-2781	0.250	0.035	24.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-305-1	4710-00-142-3009	0.3125	0.035	23.0	4730-00-555-8012	2	4730-00-289-8620	2	HYD
209-076-306-1	4710-00-289-2781	0.250	0.035	8.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-307-1	4710-00-142-3009	0.3125	0.035	12.0	4730-00-555-8012	2	4730-00-289-8620	2	HYD

Table D-1 (Sheet 3 of 5)

TUBE ASSY. PART NO.	FABRICATE FROM NSN	STOCK DIM			END FITTING				SYSTEM
		O.D.	W.T.	L.	NUT NSN	QTY	SLEEVE NSN	QTY	
209-076-308-1	4710-00-142-3009	0.3125	0.035	18.0	4730-00-555-8012	2	4730-00-289-8620	2	HYD
209-076-316-1	4710-00-142-3010	0.50	0.035	35.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-317-1	4710-00-287-1841	0.375	0.035	23.0	4730-00-142-2167	2	4730-00-287-6070	2	HYD
209-076-364-1	4710-00-287-1841	0.375	0.035	29.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-366-1	4710-00-142-3010	0.50	0.035	12.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-368-1	4710-00-287-1841	0.375	0.035	32.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-370-1	4710-00-287-1841	0.375	0.035	29.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-371-1	4710-00-142-3010	0.50	0.035	17.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-381-1	4710-00-287-1841	0.375	0.035	12.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-394-1	4710-00-287-1841	0.375	0.035	12.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-396-1	4710-00-287-1841	0.375	0.035	28.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-397-1	4710-00-142-3010	0.50	0.035	15.50	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-398-1	4710-00-142-3010	0.50	0.035	24.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-412-1	4710-00-287-1841	0.375	0.035	29.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-414-1	4710-00-142-3010	0.50	0.035	18.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-417-1	4710-00-267-1841	0.375	0.035	30.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-511-1	4710-00-287-1841	0.375	0.035	42.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-512-1	4710-00-287-1841	0.375	0.035	22.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-513-1	4710-00-287-1841	0.375	0.035	15.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-514-1	4710-00-287-1841	0.375	0.035	38.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-515-1	4710-00-287-1841	0.375	0.035	18.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-518-1	4710-00-287-1841	0.375	0.035	12.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-519-1	4710-00-287-1841	0.375	0.035	37.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-520-1	4710-00-287-1841	0.375	0.035	11.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-521-1	4710-00-287-1841	0.375	0.035	8.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-522-1	4710-00-287-1841	0.371	0.035	18.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-523-1	4710-00-287-1841	0.375	0.035	15.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-525-1	4710-00-142-3010	0.50	0.035	22.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-526-1	4710-00-142-3010	0.50	0.035	36.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-527-1	4710-00-287-1841	0.375	0.035	10.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-528-1	4710-00-287-1841	0.375	0.035	17.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-529-1	4710-00-287-1841	0.375	0.035	13.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-530-1	4710-00-287-1841	0.375	0.035	8.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-531-1	4710-00-287-1841	0.375	0.035	14.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-532-1	4710-00-287-1841	0.375	0.035	13.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-533-1	4710-00-287-1841	0.375	0.035	30.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-534-1	4710-00-287-1841	0.375	0.035	32.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-536-1	4710-00-289-2781	0.250	0.035	33.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-538-1	4710-00-142-3010	0.50	0.035	36.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-541-1	4710-00-287-1841	0.375	0.035	29.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-542-1	4710-00-287-1841	0.3125	0.035	30.0	4730-00-555-8102	2	4730-00-289-8620	2	HYD
209-076-630-1	4710-00-289-2788	0.50	0.035	16.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-631-1	4710-00-289-2781	0.250	0.035	22.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-632-1	4710-00-289-2788	0.50	0.035	23.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-633-1	4710-00-289-2788	0.500	0.035	5.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-634-1	4710-00-289-2788	0.50	0.035	28.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-635-1	4710-00-289-2788	0.50	0.035	43.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-636-1	4710-00-289-2788	0.50	0.035	21.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-637-1	4710-00-289-2788	0.50	0.035	22.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-638-1	4710-00-289-2788	0.50	0.035	16.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-639-1	4710-00-289-2788	0.50	0.035	14.0	4730-00-555-0595	2	4730-00-580-2120	2	HYD
209-076-640-1	4710-00-289-2781	0.250	0.035	28.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD

Table D-1 (Sheet 4 of 5)

TUBE ASSY. PART NO.	FABRICATE FROM NSN	STOCK DIM			END FITTING				SYSTEM
		O.D.	W.T.	L.	NUT NSN	QTY	SLEEVE NSN	QTY	
209-076-646-1	4710-00-287-1841	0.375	0.035	16.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-647-1	4710-00-289-2781	0.250	0.035	11.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-648-1	4710-00-287-1841	0.375	0.035	25.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-649-1	4710-00-287-1841	0.375	0.035	10.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-650-1	4710-00-287-1841	0.375	0.035	14.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-651-1	4710-00-287-1841	0.375	0.035	21.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-652-1	4710-00-287-1841	0.375	0.035	15.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-653-1	4710-00-287-1841	0.375	0.035	19.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-654-1	4710-00-287-1841	0.375	0.035	24.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-656-1	4710-00-287-1841	0.375	0.035	39.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-658-1	4710-00-287-1841	0.375	0.035	54.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-659-1	4710-00-287-1841	0.375	0.035	45.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-660-1	4710-00-289-2781	0.375	0.035	12.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-661-1	4710-00-287-1841	0.375	0.035	17.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-662-1	4710-00-287-2781	0.250	0.035	12.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-663-1	4710-00-289-2781	0.250	0.035	8.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-664-1	4710-00-287-1841	0.375	0.035	13.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-665-1	4710-00-287-1841	0.375	0.035	14.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-705-1	4710-00-287-1841	0.375	0.035	18.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-706-1	4710-00-287-1841	0.375	0.035	14.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-707-1	4710-00-287-1841	0.375	0.035	36.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD
209-076-708-1	4710-00-289-2780	0.250	0.028	16.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-727-101	4710-00-289-2780	0.250	0.028	32.0	4730-00-555-8203	2	4730-00-289-8619	2	HYD
209-076-728-101	4710-00-142-3009	0.312	0.035	27.0	4730-00-555-8012	2	4730-00-289-8620	2	HYD
209-076-758-101	4710-00-287-1841	0.375	0.035	20.0	4730-00-554-7397	2	4730-00-554-7398	2	HYD

Table D-1 (Sheet 5 of 5)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
204-040-215-19	1	8.88	1.0	90		A — AN818-6D AN819-6Z
	2	5.62	1.0	90		
		10.50	2	2	None	B — AN818-6D AN819-6Z
204-040-215-27	1	6.56	.94	23		A — AN818-6D AN819-6Z
	2	4.18	.94	23		
		10.56	2	2	None	B — AN818-6D AN819-6Z
204-040-722-1	1	13.00	0.56	0	19	A — AN818-4 MS20819-4 B — AN818-4 MS20819-4
	2	11.44	0.56	175	20	
	3	7.00	0.56	161	28	
	4	2.56	0.56	166	27	
		13.88	1	1	125	
204-040-723-1	1	11.38	3.0	0	32	A — AN818-4 MS20819-4 B — AN818-4 MS20819
	2	8.68	3.0	5	20	
	3	5.00	3.0	14	17	
		15.00	1	1	125	
204-040-838-1	1	13.31	1.75	0	91	A — AN818-12D MS20819-12 B — AN818-12D MS20819-12
	2	4.62	1.75	137	109	
		19.00	1	1	120	
209-030-311-1	1	2.375	.94	0	90	A — AN818-6D MS20819-6 B — AN818-6D MS10819-6
		6.625	2	2	None	
209-030-312-1	1	2.125	.94	0	90	A — AN818-6D MS20819-6 B — AN818-6D MS20819-6
		6.25	2	2	None	
209-030-661-1	1	20.75	.93	0	75	A — AN818-6D MS20819-6 B — AN818-6D MS20189-6
	2	18.12	.93	90	23	
	3	3.50	.93	265	14	
		21.62	2	2	None	
209-030-662-1	1	7.00	.93	0	86	A — AN818-6D MS20819-6 B — AN818-6D MS20819-6
	2	2.75	.93	290	12	
		8.93	2	2	None	

Table D-2 (Sheet 1 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-030-663-1	1	29.69	.94	0	107	A – AN818-6D MS20819-6 B – None
	2	23.87	.94	92	76	
	3	11.06	.94	52	79	
	4	7.75	.94	255	34	
	5	5.06	.94	263	83	
		30.87	2	4	None	
209-033-266-1	1	14.46	1.0	0	97	A – AN818-6D MS20819-6 B – AN818-6D MS20819-6
	2	8.86	1.0	245	16	
	3	3.48	1.0	90	87	
		17.0	2	2	None	
209-033-267-1	1	9.68	1.0	0	113	A – AN818-6D MS20819-6 B – AN818-6D MS20819-6
	2	6.44	1.0	171	17	
	3	4.05	1.0	89	87	
		12.0	2	2	None	
209-033-268-1	1	15.93	1.0	0	74	A – AN818-6D MS20819-6 B – AN818-6D MS20819-6
	2	12.03	1.0	185	87	
	3	7.77	1.0	94	24	
	4	6.00	1.0	190	44	
	5	3.94	1.0	347	57	
		15.93	2	2	None	
209-040-211-1	1	43.56	1.5	0	80	A – AN818-10D MS20819-10 B – AN818-10D MS20819-10
	2	36.50	1.5	180	77	
	3	19.37	1.5	160	89	
	4	12.37	1.5	338-1/2	90	
	5	2.25	1.5	158	31	
		44.75	1	1	None	
209-040-158-1	1	15.94	0.56	0	90	A – None B – AN818-4D MS20819-4
	2	12.00	0.56	274	46	
	3	9.62	0.56	197	30	
	4	8.12	0.56	14	29	
	5	5.50	0.56	93	51	
	6	2.69	0.56	213	38	
		17.25	4	2	None	

Table D-2 (Sheet 2 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-040-214-1	1	32.00	1.5	0	84	A - AN818-10D MS20819-10 B - AN818-10D MS20819-10
	2	24.62	1.5	180	81	
	3	9.25	1.5	4	91	
	4	3.25	1.5	180	39	
		34.18	1	1	None	
209-040-215-1	1	4.68	1.5	0	39	A - AN818-10D MS20819-10 B - AN818-10D MS20819-10
	2	1.81	1.5	180	12	
		5.75	1	1	None	
209-040-216-1	1	5.50	1.0	0	17	A - AN818-6D MS20819-6 B - None
	2	3.68	1.0	180	12	
		8.00	2	4	None	
*209-040-245-101	1	6.02	1.50	0	55.80	A - AN818-10D MS20819-10D B - AN818-10D MS20819-10D Install tape 31-033-3
	2	2.20	1.50	23.90	37.40	
		7.66	1	1	None	
*209-040-245-101	1	4.70	1.50	0	26.0	A - AN818-10D MS20819-10D B - AN818-10D MS20819-10D Install tape 31-033-3
	2	3.05	1.50	180.40	70.6	
		5.55	1	1	None	
209-040-511-1	1	3.75	94	0	86	A - AN818-6D MS20819-6 B - AN818-6D MS20819-6
		5.0625	2	2	None	
209-060-223-1	1	30.75	3.0	0	81	A - AN818-16D MS20819-16 B - AN818-16D MS20819-16
	2	24.69	3.0	190	89	
	3	13.87	30	60	14	
	4	8.87	3.0	260	43	
	5	3.94	3.0	80	40	
		31.81	1	1	None	
209-060-224-1	1	18.38	3.0	0	37	A - AN818-16D MS20819-16 B - None
	2	13.63	3.0	180	37	
	3	8.69	3.0	252	41	
	4	3.75	3.0	73	41	
		25.00	1	5	None	

Table D-2 (Sheet 3 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
*209-060-245-101	1	67.77	1.50	0	21	A - None B - None Install tape 31-036-3 Install tape 31-032-54H Direction of flow from end A to end B
	2	67.17	1.50	177	22	
	3	59.94	1.50	182	35	
	4	56.92	1.50	0	35	
	5	51.73	1.50	83	57	
	6	48.59	1.50	264	53	
	7	43.51	1.50	189	17	
	8	37.60	1.50	90	95	
	9	16.57	1.50	56	32	
	9	9.69	1.50	49	30	
	11	2.71	1.50	39	56	
		69.45	3	3	100	
*209-060-254-101	1	8.88	0.56	0	169	A - AN818-4J MS20819-4J B - AN818-4J MS20819-4J Install tape 31-033-3 Install tape 31-032-50
	2	1.98	0.56	22	12	
		10.18	1	1	150	
*209-060-255-101	1	9.75	0.56	0	90	A - AN818-4J MS20819-4J B - AN818-4J MS20819-4J Install tape 31-033-3 Install tape 31-032-50
	2	8.03	0.56	0	90	
	3	4.12	0.56	188	4	
	4	2.91	0.56	14	9	
		11.10	1	1	150	
*209-060-264-101	1	19.86	1.50	0	42	A - AN818-10J MS20819-10J B - AN818-10J MS20819-10J Install tape 31-033-9 Install tape 31-032-54 Direction of flow from end B to end A
	2	17.12	1.50	120	105	
	3	9.53	1.50	84	11	
	4	4.46	1.50	191	20	
	5	2.24	1.50	358	22	
		21.17	1	1	100	
209-060-427-1	1	12.62	0.56	0	93	A — 90-078-L4 MS20819-4 B — 90-078-L4 MS20819-4
	2	1.50	0.56	236	80	
		13.31	1	1	100	
209-060-502-1	1		1.12	0	89.3	A — AN818-6D MS20819-6 B — None
	2		1.12	94.6	12.3	
	3		1.12	174.3	82.5	
	4		1.12	93.3	69.7	
	5		1.12	263.0	81.3	
		30.0	2	4	None	

* After incorporation of MWO 55-1520-236-50-12.

Table D-2 (Sheet 3 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-060-505-1	1	2.625	15/16	0	88	A — AN818-6D MS20819-6 B — AN818-6D MS20819-6
		3.75	2	2	None	
209-060-537-1	1	20.18	1.50	0	34	A — AN818-10D MS20819-10 B — AN818-10D MS20819-10
	2	11.62	1.50	180	21	
		20.18	1	1	35	
209-060-544-1	1	39.62	0.56	0	90	A — AN818-4D MS20819-4 B — AN818-4D MS20819-4
	2	30.56	0.56	176	88	
	3	25.69	0.56	84	84	
	4	19.88	0.56	175	82	
	5	6.75	0.56	352	59	
	6	2.75	0.56	188	57	
		41.38	2	2	None	
209-060-545-1	1	7.12	0.56	0	52	A — AN818-4D MS20819-4 B — None
	2	2.38	0.56	247	40	
		8.00	2	5	None	
209-060-558-1	1	38.62	0.94	0	86	A — AN818-6D MS20819-6 B — AN818-6D MS20819-6
	2	34.55	0.94	180	16	
	3	26.12	0.94	180	71	
	4	18.50	0.94	90	18	
	5	16.88	0.94	180	20	
	6	2.18	0.94	80	72	
		39.50	1	1	None	
209-060-559-1	1	6.75	0.94	0	113	A — AN818-6D MS20819-6 B — AN818-6D MS20819-6
	2	2.94	0.94	100	81	
		10.00	1	1	None	

Table D-2 (Sheet 4 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-060-560-1	1	39.94	0.94	0	25	A — AN818-6D MS20819-6 B — AN818-6D MS20819-6
	2	38.06	0.94	282	23	
	3	33.94	0.94	93	75	
	4	27.12	0.94	180	84	
	5	9.69	0.94	338	66	
		41.62	1	1	None	
209-060-567-1	1	16.69	1.50	0	129	A — AN818-10D MS20819-10 B — AN818-10D MS20819-10
	2	7.31	1.50	0	47	
		17.94	1	1	35	
209-060-568-1	1	18.25	1.75	0	132	A — AN818-12D MS20819-12 B — AN818-12D MS20819-12
	2	7.12	1.75	0	45	
		20.00	1	1	35	
209-060-571-1	1	8.62	0.94	0	87	A — AN818-6D MS20819-6 B — AN818-6D MS20819-6
	2	5.12	0.94	270	40	
	3	2.38	0.94	315	46	
		10.00	2	2	None	
209-060-572-1	1	6.0	0.94	0	79	A — AN818-6D MS20819-6 B — AN818-6D MS20819-6
	2	2.38	0.94	180	82	
		7.00	1	1	None	
209-060-574-1	1	8.74	1.50	0	9.5	A — AN818-10D MS20819-10 B — AN818-10D MS20819-10
	2	5.50	1.50	180	9.5	
	3	2.50	1.50	270	35.5	
		10.28	1	1	35	

Table D-2 (Sheet 5 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-060-575-1	None	None	None	None	None	A – AN818-12D MS20819-12 B – AN818-12D MS20819-12
		4.19	1	1	35	
209-060-586-1	1	26.88	1.0	0	80	A – AN818-6D MS20819-6 B – AN818-6D MS20819-6
	2	23.69	1.0	90	11	
	3	20.69	1.0	95	101	
	4	10.44	1.0	180	92	
	5	5.03	1.0	270	16	
		32.00	2	2	None	
209-060-587-1	1	6.68	.56	0	160	A – AN818-4D MS20819-4D B – AN818-4D MS20819-4D
	2	2.06	.56	315	58	
209-060-622-1	1	36.06	1.31	0	90	A – AN818-6D MS20819-6 B – None
	2	33.18	1.31	90	19	
	3	26.94	1.31	90	90	
	4	7.94	1.31	335	78	
	5	3.69	1.31	180	86	
		39.00	2	4	None	

Table D-2 (Sheet 6 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-060-624-1	1	7.38	1.75	0	45	A – AN818-12D MS20819-12 B – 45 Degree Cutoff
	2	3.62	1.75	180	43	
		9.06	1	5	None	
209-060-625-1	1	56.25	.94	0	90	A – AN818-6D MS20819-6 B – None
	2	46.31	.94	257	93	
	3	18.56	.94	267	79	
	4	9.75	.94	76	72	
	5	4.69	.94	179	73	
		58.75	2	4	None	
209-060-634-1	1	9.44	9.56	0	90	A – AN818-4D MS20819-4 B – AN818-4D MS20819-4
	2	3.38	.56	95	47	
		10.69	2	2	None	
209-060-637-1	1	7.68	.56	0	145	A – AN818-4D MS20819-4 B – AN818-4D MS20819-4
	2	3.37	.56	350	30	
	3	1.87	.56	150	80	
		8.75	2	2	100	
209-060-643-1	1	11.12	1.50	0	87	A – AN818-40D MS20819-10 B – 45 Degree Cutoff
	2	6.87	1.50	122	82	
	3	2.75	1.50	90	63	
		12.06	1	5	None	
209-060-680-1	1	9.00	.56	0	54.5	A – AN818-4D MS20819-1 B – 45 Degree Cutoff
	2	3.38	.56	180	54.5	
		11.50	2	5	None	
209-060-690-1		None				A – AN818-4D MS20819-4 B – AN818-4D MS20819-4
		3.0	3	5	None	
209-060-691-1	1	6.22	.56	0	25	A – AN818-4D MS20819-4 B – 45 Degree Cutoff
	2	4.75	.56	180	25	
		9.50	2	5	None	
209-060-695-101	1	55.86	1.00	0	91.2	A – None B – AN818-60 MS20819-6
	2	45.91	1.00	102.1	94.1	
	3	18.04	1.00	192.9	77.6	
	4	9.20	1.00	114.2	68.9	
	5	4.12	1.00	299.6	68.4	

Table D-2 (Sheet 7 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END DIMENSION "D"	BEND RADIUS TYPE END "A"	DIAL SETTING TYPE END "B"	BEND ANGLE PRESSURE TEST	END FITTING AND NOTES
209-063-531-1	1	5.35	0.56	0	90.4	A --- AN818-4J MS20819-4J B --- AN818-4J MS20819-4J
	2	3.74	0.56	0.1	88.4	
		6.46	1	1	150	
209-063-532-1	1	6.40	0.56	0	168.4	A --- AN818-4J MS20819-4J B --- AN818-4J MS20819-4J
	2	1.75	0.56	316.6	93.4	
		7.50	1	1	150	
209-063-533-1	1	6.75	0.56	0	167.5	A --- AN818-4J MS20819-4J B --- AN818-4J MS20819-4J
	2	2.00	0.56	41.0	100.3	
		7.88	1	1	150	
209-070-450-1	1	9.88	3.0	0	9	A --- AN818-16D MS20819-16 B --- None
	2	7.75	3.0	180	93	
		11.5	1	3	None	
209-070-487-1	1	14.25	3.0	0	94	A --- None B --- None
	2	7.50	3.0	90	93	
		15.25	3	3	None	
209-070-497-1	1	12.31	3.00	0	5	A --- None B --- None
		14.12	3.00	3	None	
209-070-525-1	1	22.12	3.00	0	90	A --- None B --- None
	2	13.12	3.00	268	51	
			3	3	None	

Table D-2 (Sheet 8 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-070-543-1	No Bends	8.81	3	3	None	A — None B — None
209-070-588-1	1	44.5	3.0	0	5	A — N/A B — AN818-16D MS20819-16
	2	38.5	3.0	180	6	
	3	21.0	3.0	175	25	
	4	15.0	3.0	349	25	
	5	2.5	3.0	39	13	
209-073-473-1		12.0 EST	2	2	None	A — AN818-6D MS20819-6 B — None
209-073-530-1	1	18.12	0.56	0	100	A — AN818-4D MS20819-4 B — AN818-4D MS20819-4
	2	16.07	0.56	96	15	
	3	11.56	0.56	310	80	
	4	6.00	0.56	128	68	
	5	3.36	0.56	216	95	
		19.48	1	1	150	
209-073-819-1	1	13.17	0.56	0	138.4	A-None B-None
	2	10.12	0.56	104.7	85.8	
	3	3.25	0.56	119.2	105.2	
	4	1.40	0.56	207.2	30.9	
		14.87	1	1	N/A	
209-072-468-1	1	20.50	0.94	0	84	A — AN818-6D MS20819-6D B — AN818-6D MS20819-6D
	2	10.50	0.94	180	84	
		22.12	1	1	150	
209-076-118-1	1	11.31	1.00	0	67	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	2.25	1.00	178	68	
		14.81	4	4	3000	
209-076-119-1	1	14.75	1.00	0	117	A — AN818-6D MS20819-6D B — MS21921-6D MS21922-6
	2	11.56	1.00	180	26	
	3	5.06	1.00	90	16	
		16.06	2	4	3000	

Table D-2 (Sheet 9 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-141-1	1	9.0	1.25	0	87	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	6.0	1.25	176	87	
		11.56	4	4	3000 B	
209-076-149-1	1	6.44	1.00	0	32.5	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	3.94	1.00	163	38	
		8.63	4	4	3000	
209-076-150-1	1	5.94	1.0	0	35	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	3.50	1.0	193.5	43	
		8.62	4	4	3000	
209-076-151-1	1	7.13	1.0	0	43.5	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	4.44	1.0	168	46	
		9.00	4	4	3000	
209-076-152-1	1	7.31	1.0	0	36	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	3.50	1.0	190	35	
		8.94	4	4	3000	

Table D-2 (Sheet 10 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-153-1	1	17.31	1.0	0	67	A - MS21921-6D MS21922-6 B - MS21921-6D MS21922-6
	2	13.50	1.0	178	60	
	3	7.25	1.0	147	69	
	4	2.62	1.0	318	68	
		18.56	4	4	3000	
209-076-154-1	1	14.88	1.0	0	72	A - MS21921-6D MS21922-6 B - MS21921-6D MS21922-6
	2	12.00	1.0	176	67	
	3	3.56	1.0	194	36	
	4	1.50	1.0	12	30	
		15.75	4	4	3000	
209-076-155-1	1	15.25	1.0	0	77	A - MS21921-6D MS21922-6 B - MS21921-6D MS21922-6
	2	12.25	1.0	18.5	68	
	3	3.75	1.0	149	34.5	
	4	1.69	1.0	325	28	
		16.12	4	4	3000	
209-076-156-1	1	17.12	1.0	0	73	A - MS21921-6D MS21922-6 B - MS21921-6D MS21922-6
	2	13.56	1.0	187	65	
	3	7.31	1.0	203	67	
	4	2.56	1.0	30.5	62.5	
		18.44	4	4	3000	
209-076-202-1	1	18.75	1.25	0	114	A - MS21921-8D MS21922-8 B - MS21921-8D MS21922-8
	2	12.62	1.25	176	23	
	3	5.88	1.25	266	26	
	4	3.06	1.25	89	39	
		20.31	4	4	3000	
209-076-205-1	1	12.88	1.25	0	112	A - MS21921-8D MS21922-8 B - MS21921-8D MS21922-8
	2	8.50	1.25	180	26	
	3	5.12	1.25	270	120	
		13.88	4	4	3000	
209-076-207-1	1	18.31	1.25	0	113	A - MS21921-8D MS21922-8 B - MS21921-8D MS21922-8
	2	12.25	1.25	180	23	
	3	5.69	1.25	90	27	
	4	2.81	1.25	268	36	
		19.81	4	4	3000	
209-076-208-1	1	13.50	1.00	0	104	A - MS21921-6D MS21921-6 B - MS21921-6D MS21922-6
	2	8.19	1.00	174	101	
	3	2.50	1.00	90	85	
		15.00	4	4	3000	
209-076-209-1	1	7.94	3.0	0	99	A - MS21921-16D MS21922-16 B - MS21921-16D MS21922-16
		9.56	4	4	500	

Table D-2(Sheet 11 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-212-1	1	47.94	1.25	0	88	A - MS21921-8D MS21922-8 B - MS21921-8D MS21922-8
	2	43.38	1.25	180	90	
	3	27.81	1.25	1.83	70	
	4	15.56	1.25	3	64	
		49.06	4	4	3000	
209-076-213-1	1	9.69	1.00	0	49	A - MS21921-8D MS21922-8 B - MS21921-8D MS21922-8
	2	4.06	1.00	183	55	
		11.44	4	4	3000	
209-076-214-7	1	32.38	1.25	0	71	A - MS21921-8D MS21922-8 B - MS21921-8D MS21922-8
	2	14.06	1.25	32	23	
	3	9.56	1.25	212	29	
		37.19	4	4	3000	
209-076-215-1	1	21.44	1.25	0	25	A - MS21921-8D MS21922-8 B - MS21921-8D MS21922-8
	2	17.25	1.25	171	23	
	3	3.50	1.25	31	16	
		27.88	4	4	3000	
209-076-216-1	1	16.00	1.00	0	61	A - MS21921-6D MS21922-6 B - MS21921-6D MS21922-6
	2	2.12	1.00	60	50	
		23.0	4	4	3000	
209-076-219-1	1	11.19	1.25	0	89	A - MS21921-8D MS21922-8 B - MS21921-8D MS21922-8
		15.44	4	4	3000	
209-076-220-1	1	22.56	1.25	0	22	A - MS21921-8D MS21922-8 B - MS21921-8D MS21922-8
	2	16.69	1.25	269	33	
	3	14.69	1.25	89	29	
	4	10.06	1.25	86	93	
		26.06	4	4	3000	
209-076-221-1	1	5.38	0.56	0	87	A - MS21921-4D MS21922-4 B - MS21921-4D MS21922-4
	2	3.31	0.56	90	32	
		9.56	4	4	3000	
209-076-232-1	1	4.81	0.75	0	30	A - MS21921-5D MS21922-5 B - MS21921-5D MS21922-5
	2	3.06	0.75	270	90	
		5.94	4	4	3000	
209-076-234-1	1	6.62	1.00	0	90	A - MS21921-6D MS21922-6 B - MS21921-6D MS21922-6
		9.06	4	4	3000	

Table D-2 (Sheet 12 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-235-1	1	8.94	0.56	0	90	A -- MS21921-4D MS21922-4 B -- MS21921-4D MS21922-4
		14.00	4	4	3000	
209-076-237-1	1	9.19	.56	0	90	A -- MS21921-4D MS21922-4 B -- MS21921-4D MS21922-4
	2	3.31	.56	90	7	
		11.38	4	4	3000	
209-076-238-1	1	3.88	.56	0	88	A -- MS21921-4D MS21922-4 B -- MS21921-4D MS21922-4
	2	2.25	.56	270	37	
		5.31	4	4	3000	
209-076-241-1	1	32.25	.56	0	89	A -- MS21921-4D MS21922-4 B -- MS21921-4D MS21922-4
	2	18.88	.56	0	87	
	3	5.00	.56	181	82	
		33.62	4	4	3000	
209-076-242-1	1	6.75	.75	0	90	A -- MS21921-5D MS21922-5 B -- MS21921-5D MS21922-5
	2	2.56	.75	0	90	
		8.25	4	4	3000	
209-076-243-1	1	7.62	.56	0	104	A -- MS21921-4D MS21922-4 B -- MS21921-4D MS21922-4
	2	2.75	.56	95	52	
		9.12	4	4	3000	
209-076-244-1	1	11.06	.56	0	85	A -- MS21921-4D MS21922-4 B -- MS21921-4D MS21922-4
	2	5.56	.56	0	24	
	3	2.94	.56	92	70	
		12.81	4	4	3000	
209-076-245-1	1	9.69	.75	0	105	A -- MS21921-5D MS21922-5 B -- MS21921-5D MS21922-5
	2	3.44	.75	90	61	
		10.81	4	4	3000	
209-076-246-1	1	15.56	.75	0	119	A -- MS21921-5D MS21922-5 B -- MS21921-5D MS21922-5
	2	13.81	.75	167	34	
	3	7.00	.75	176	82	
	4	3.62	.75	18	80	
		17.75	4	4	3000	
209-076-247-1	1	18.69	.56	0	120	A -- MS21921-4D MS21922-4 B -- MS21921-4D MS21922-4
	2	16.19	.56	180	28	
	3	10.88	.56	273	67	
	4	4.62	.56	183	38	
	5	2.12	.56	83	67	
		19.62	4	4	3000	

Table D-2 (Sheet 13 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-248-1	1	10.31	.56	0	87	A — MS21921-4D MS21922-4 B — MS21921-4D MS21922-4
	2	8.50	.56	270	91	
	3	4.19	.56	268	92	
	4	2.12	.56	357	89	
		11.56	4	4	3000	
209-076-256-1	1	13.62	1.25	0	15	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	10.12	1.25	90	90	
	3	6.75	1.25	0	16	
	4	2.12	1.25	90	75	
		16.62	4	4	3000	
209-076-258-1	1	18.12	1.25	0	16	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	15.81	1.25	90	87	
	3	6.94	1.25	70	15	
	4	5.25	1.25	265	90	
		19.69	4	4	3000	
209-076-264-1	1	11.38	.56	0	89	A — MS21921-4D MS21922-4 B — MS21921-4D MS21922-4
	2	2.19	.56	237	5	
		12.31	4	4	3000	
209-076-265-1	1	10.37	.56	0	69	A — MS21921-4D MS21922-4 B — MS21921-4D MS21922-4
	2	2.25	.56	0	22	
		11.38	4	4	3000	
209-076-267-1	1	20.12	.56	0	110	A — MS21921-4D MS21922-4 B — MS21921-4D MS21922-4
	2	16.81	.56	199	23	
	3	9.56	.56	96	21	
	4	7.88	.56	283	39	
	5	2.19	.56	8	87	
		21.12	4	4	3000	
209-076-269-1	1	22.00	1.00	0	90	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	16.50	1.00	88	30	
	3	6.06	1.00	88	6	
	4	3.69	1.00	358	90	
		24.00	4	4	3000	
209-076-270-1	1	13.62	1.00	0	76	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	3.12	1.00	50	23	
		15.31	4	4	3000	
209-076-271-1	1	5.88	.94	0	177	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
		7.19	4	4	3000	

Table D-2 (Sheet 14 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-274-1	1	4.25	1.00	0	108	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
		6.44	4	4	3000	
209-076-278-1	1	17.94	.56	0	93	A — MS21921-4D MS21922-4 B — MS21921-4D MS21922-4
	2	10.50	.56	270	52	
		20.75	4	4	3000	
209-076-279-1	1	15.56	.75	0	90	A — MS21921-5D MS21922-5 B — MS21921-5D MS21922-5
	2	12.81	.75	277	30	
		17.51	4	4	3000	
209-076-298-1		18.0 EST	4	4	3000	A — MS21921-4D MS21922-4 B — MS21921-4D MS21922-4
209-076-299-1	1	16.25	1.25	0	89	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	6.12	1.25	90	95	
		17.62	4	4	3000	
209-076-302-1	1	7.38	1.25	0	38	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	3.75		225	70	
		10.12	4	4	3000	
209-076-303-1	1	18.38	1.25	0	90	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	14.88	1.25	270	5	
	3	6.75	1.25	90	90	
	4	2.50	1.25	90	16	
		23.62	4	4	3000	
209-076-304-1	1	18.88	.56	0	86	A — MS21921-4D MS21922-4 B — MS21921-4D MS21922-4
		20.97	4	4	3000	
209-076-305-1	1	19.06	.69	0	90	A — MS21921-5D MS21922-5 B — MS21921-5D MS21922-5
		20.19				
209-076-306-1	1	4.56	.56	0	90	A — MS21921-4D MS21922-4 B — MS21921-4D MS21922-4
	2	2.06	.56	270	11	
		6.38	4	4	3000	

Table D-2(Sheet 15 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-307-1	1	8.25	.69	0	96	A — MS21921-5D MS21922-5 B — MS21921-5D MS21922-5
	2	5.06	.69	285	50	
	3	1.50	.69	329	50	
		10.44	4	4	3000	
209-076-308-1	1	14.12	.69	0	38	A — MS21921-5D MS21922-5 B — MS21921-5D MS21922-5
	2	9.0	.69	180	35	
		16.25	4	4	3000	
209-076-316-1	1	28.88	1.25	0	63	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	22.00	1.25	357	60	
	3	17.68	1.25	177	56	
	4	9.31	1.25	87	36	
	5	5.81	1.25	247	39	
			4	4	3000	
209-076-317-1	1	16.13	1.0	0	102	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	13.44	1.0	270	51	
	3	8.06	1.0	70	28	
	4	3.50	1.0	275	34	
			4	4	3000	
209-076-364-1	1	25.13	1.0	0	130	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	16.00	1.0	275	67	
	3	12.25	1.0	180	88	
	4	8.25	1.0	180	80	
	5	2.56	1.0	0	94	
		29.0	4	4	3000	
209-076-366-1	1	8.25	1.25	0	89	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	2.13	1.25	320	47	
		9.13	4	4	3000	
209-076-368-1	1	28.50	1.0	0	155	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	23.63	1.0	80	17	
	3	16.88	1.0	339	39	
	4	14.75	1.0	69	87	
	5	8.44	1.0	159	64	
	6	3.31	1.0	342	63	
		29.50	4	4	3000	
209-076-370-1	1	26.13	1.0	0	107	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	19.44	1.0	117	42	
	3	16.63	1.0	270	92	
	4	3.75	1.0	190	90	
		27.06	4	4	3000	

Table D-2 (Sheet 16 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-371-1	1	14.00	1.25	0	175	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	7.38	1.25	332	23	
	3	3.00	1.25	40	87	
		15.00	4	4	3000	
209-076-381-1	1	9.0	1.0	0	108	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	2.94	1.0	2	73	
		10.44	4	4	3000	
209-076-394-1	1	7.25	1.0	0	90	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	2.88	1.0	128	15	
	3	1.75	1.0	311	15	
		10.56	4	4	3000	
209-076-396-1	1	24.00	1.0	0	116	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	18.38	1.0	280	75	
	3	12.54	1.0	310	75	
	4	6.63	1.0	235	13	
	5	2.54	1.0	139	64	
		25.38	4	4	3000	
209-076-397-1	1	11.50	1.25	0	60	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	7.63	1.25	174	71	
		13.50	4	4	3000	
209-076-398-1	1	19.94	1.25	0	100	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	9.88	1.25	256	42	
	3	2.75	1.25	196	90	
		20.88	4	4	3000	
209-076-412-1	1	25.0	1.0	0	27	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	23.1	1.0	275	87	
	3	16.0	1.0	204	41	
	4	12.7	1.0	23.5	41	
	5	6.0	1.0	221	72.5	
	6	3.5	1.0	39.5	72.5	
		26.31	4	4	3000	
209-076-414-1	1	12.78	1.25	0	77	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	9.71	1.25	0	13	
	3	7.38	1.25	333	66	
	4	3.59	1.25	73	115	
		15.59	4	4	3000	

Table D-2 (Sheet 17 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-417-1	1	23.56	1.0	0	72	A - MS21921-6D MS21922-6 B - MS21921-6D MS21922-6
	2	21.25	1.0	233.5	85	
	3	13.56	1.0	22.5	88	
	4	8.94	1.0	106	15	
	5	3.69	1.0	280.5	15	
	6	1.94	1.0	101	15	
		24.63	4	4	3000	
209-076-511-1	1	39.37	1.12	0	45	A - MS21921-6D MS21922-6 B - MS21921-6D MS21922-6
	2	35.85	1.12	239	70	
	3	25.93	1.12	0	85	
	4	19.36	1.12	73	7	
	5	10.53	1.12	123	29	
	6	4.21	1.12	314	24	
		40.44	4	4	3000	
209-076-512-1	1	18.99	1.12	0	96	A - MS21921-6D MS21922-6 B - MS21921-6D MS21922-6
	2	15.37	1.12	108	36	
	3	12.66	1.12	306	28	
	4	8.27	1.12	180	51	
	5	5.97	1.12	308	47	
	6	3.62	1.12	201	33	
	7	1.86	1.12	2	30	
		20.60	4	4	3000	
209-076-513-1	1	11.27	1.12	0	87	A - MS21921-6D MS21922-6 B - MS21921-6D MS21922-6
	2	5.65	1.12	9	73	
	3	3.17	1.12	275	8	
	4	1.58	1.12	94	9	
		13.24	4	4	3000	
209-076-514-1	1	35.94	1.12	0	40	A - MS21921-6D MS21922-6 B - MS21921-6D MS21922-6
	2	31.70	1.12	2	24	
	3	28.31	1.12	253	23	
	4	22.59	1.12	88	82	
	5	17.21	1.12	310	82	
	6	8.53	1.12	130	74	
	7	1.47	1.12	129	15	
		36.90	4	4	3000	
209-076-515-1	1	13.52	1.12	0	83	A - MS21921-6D MS21922-6 B - MS21921-6D MS21922-6
	2	10.28	1.12	86	40	
	3	7.28	1.12	73	60	
	4	3.92	1.12	253	53	
		16.80	4	4	3000	

Table D-2 (Sheet 18 of 29)
Table D-2 (Sheet 18 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-518-1	1	9.17	1.12	0	91	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	6.40	1.12	0	87	
		10.22	4	4	3000	
209-076-519-1	1	35.08	1.12	0	93	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	31.77	1.12	349	84	
	3	27.47	1.12	71	24	
	4	25.12	1.12	346	75	
	5	21.72	1.12	171	71	
	6	16.79	1.12	33	82	
	7	10.21	1.12	120	24	
	8	7.40	1.12	126	22	
	9	4.10	1.12	122	36	
	10	1.25	1.12	122	10	
		35.95	4	4	3000	
209-076-520-1	1	7.96	1.12	0	86	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	3.10	1.12	270	38	
		9.78	4	4	3000	
209-076-521-1	1	4.82	1.12	0	87	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
		5.94	4	4	3000	
209-076-522-1	1	13.57	1.12	0	91	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	10.18	1.12	264	117	
	3	3.46	1.12	56	22	
		16.59	4	4	3000	
209-076-523-1	1	11.96	1.12	0	87	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	7.15	1.12	179	86	
		13.85	4	4	3000	
209-076-525-1	1	18.61	1.25	0	17	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	16.65	1.25	180	19	
	3	14.69	1.25	89	89	
	4	5.10	1.25	269	88	
		20.83	4	4	3000	

Table D-2 (Sheet 19 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-526-1	1	32.45	1.50	0	44	A — MS21921-8D MS21922-8 B — MS21921-8D MS 21922-8
	2	29.84	1.50	182	42	
	3	22.72	1.50	94	32	
	4	16.21	1.50	273	32	
	5	10.79	1.50	274	54	
	6	4.02	1.50	93	58	
		33.97	4	4	3000	
209-076-527-1	1	7.18	1.12	0	26	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	5.63	1.12	91	62	
		8.28	4	4	3000	
209-076-528-1	1	15.17	1.12	0	88	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	7.98	1.12	0	100	
	3	3.76	1.12	149	43	
	4	1.94	1.12	324	40	
		15.93	4	4	3000	
209-076-529-2	1	7.86	1.12	0	66	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	3.66	1.12	104	53	
		11.49	4	4	3000	
209-076-530-1	1	4.37	1.12	0	102	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
		5.75	4	4	3000	
209-076-531-1	1	11.30	1.12	0	89	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	6.97	1.12	94	36	
	3	3.81	1.12	3	92	
		12.71	4	4	3000	
209-076-532-1	1	10.0	1.25	0	180	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	3.25	1.25	176	106	
		11.37	4	4	3000	
209-076-533-1	1	24.73	1.125	0	125.8	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	18.71	1.125	176.4	34.9	
	3	12.22	1.125	145.9	92.8	
	4	5.01	1.125	234.1	37.3	
		25.80	4	4	3000	

Table D-2 (Sheet 20 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-534-1	1	25.61	1.125	0	44.0	A -- MS21921-6D MS21922-6 B -- MS21921-6D MS21922-6
	2	18.42	1.125	90	89.5	
	3	11.66	1.125	76.9	89.1	
	4	8.50	1.125	256.7	87.5	
	5	4.02	1.125	254.9	90.0	
		27.30	4	4	300.0	
209-076-536-1	1	27.48	.75	0	15.9	A -- MS21921-4D MS21922-4 B -- MS21921-4D MS21922-4
	2	25.22	.75	75.8	89.1	
	3	19.28	.75	329.9	89.3	
	4	6.70	.75	135.8	85.6	
	5	6.47	.75	229.3	20.5	
	6	5.34	.75	314.7	83.7	
		28.22	4	4	3000	
209-076-538-1	1	30.77	1.5	0	45	A -- MS21921-8D MS21922-8 B -- MS21921-8D MS21922-8
	2	25.21	1.5	178	48	
	3	11.71	1.5	170	51	
	4	6.83	1.5	75	14	
	5	4.66	1.5	341	54	
		33.91	4	4	3000	
209-076-541-1	1	23.42	1.12	0	77	A -- MS21921-6D MS21922-6 B -- MS21921-6D MS21922-6
	2	19.48	1.12	80		
	3	5.66	1.12	4		
		27.27	4	4	3000	
209-076-542-1	1	25.51	.92	0	103.1	A -- MS21921-5D MS21922-5 B -- MS21921-5D MS21922-5
	2	21.66	.92	145.6	27.7	
	3	18.21	.92	249.4	90.5	
	4	7.85	.92	53.4	86.0	
	5	5.40	.92	233.4	86.1	
		26.80	4	4	3000	
209-076-630-1						
209-076-631-1	1	19.87	0.75	0	93	A -- MS21921-4D MS21922-4 B -- MS21921-4D MS21922-4
	2	17.10	0.75	288	18	
	3	12.28	0.75	105	44	
	4	10.48	0.75	287	28	
	5	2.77	0.75	1	97	
		22.0	4	4	3000	

Table D-2 (Sheet 21 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-632-1	1	18.37	1.50	0	113.7	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8D
	2	12.79	1.50	94.3	77.2	
		23.0	4	4	3000	
209-076-633-1		None		None		A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
		5.0	4	4	3000	
209-076-634-1	1	23.19	1.5	0	30	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	13.39	1.5	277	83	
	3	5.58	1.5	288	4	
		28.0	4	4	3000	
209-076-635-1	1	38.67	1.50	0	29	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	37.10	1.50	179	27	
	3	2.97	1.50	149	43	
		40.07	4	4	3000	
209-076-636-1	1	16.69	1.50	0	74	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	13.25	1.50	82	18	
	3	7.03	1.50	55	16	
		18.76	4	4	3000	
209-076-637-1	1	17.45	1.50	0	67	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	13.92	1.50	77	20	
	3	6.73	1.50	42	18	
		19.14	4	4	3000	

Table D-2 (Sheet 22 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-638-1	1	12.42	1.5	0	46	A — MS231921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	6.66	1.5	258	59	
		16.0	4	4	3000	
209-076-639-1	1	10.47	1.5	0	41.7	A — MS21921-8D MS21922-8 B — MS21921-8D MS21922-8
	2	6.69	1.5	85	6	
	3	2.50	1.5	280	29	
		14.0	4	4	3000	
209-076-640-1	1	22.12	0.75	0	85.5	A — MS21921-4D MS21922-4 B — MS21921-4D MS21922-4
	2	17.90	0.75	256.8	24.5	
	3	14.90	0.75	74.7	43.6	
	4	3.89	0.75	125.9	42.0	
	5	2.59	0.75	305.7	131.3	
		28.0	4	4	3000	
209-076-645-1	1	9.09	1.875	0	62	A — MS21921-10D MS21922-10 B — MS21921-10D MS21922-10
	2	6.00	1.875	103	23	
	3	4.12	1.875	286	84	
		12.0	4	4	3000	
209-076-646-1	1	13.46	1.125	0	87	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	10.16	1.125	115	67	
	3	2.94	1.125	164	65	
		16.00	4	4	3000	
209-076-647-1	1	8.61	0.75	0	83	A — MS21921-4D MS21922-4 B — MS21921-4D MS21922-4
	2	1.80	0.75	277	49	
		11.00	4	4	3000	

Table D-2 (Sheet 23 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-648-1	1	20.80	1.0	0	27.5	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	19.05	1.0	187.5	29.0	
	3	16.65	1.0	176.5	171.3	
	4	11.23	1.0	87.3	15.3	
	5	5.52	1.0	76.6	42.7	
		21.74	4	4	3000	
209-076-649-1	1	5.64	1.0	0	87.1	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	3.21	1.0	0	93.5	
		7.22	4	4	3000	
209-076-650-1	1	8.68	1.125	0	95	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	5.42	1.125	358.3	87.7	
	3	1.40	1.125	273.4	7.8	
		9.64	4	4	3000	
209-076-651-1	1	16.12	1.125	0	178.0	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	10.75	1.125	81.6	7.7	
	3	7.54	1.125	139.9	114.8	
	4	3.63	1.125	318.5	112.3	
		17.06	4	4	3000	
209-076-652-1	1	10.40	1.125	0	117.7	
	2	4.52	1.125	279.6	9.2	
	3	3.19	1.125	187.8	25.0	
	4	1.30	1.125	92.3	8.0	
		11.88	4	4	3000	

Table D-2 (Sheet 24 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-653-1	1	14.125	1.0	0	177.2	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	9.87	1.0	79.8	30.8	
	3	7.48	1.0	263.8	65.3	
	4	4.76	1.0	175.9	87.0	
	5	2.27	1.0	36.4	81.8	
		16.25	4	4	3000	
209-076-654-1	1	18.75	1.125	0	83.7	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	9.92	1.125	160.3	20.7	
	3	6.99	1.125	80.2	10.5	
	4	5.56	1.125	38.9	9.2	
	5	2.29	1.125	300.0	43.3	
		20.09	4	4	3000	

Table D-2 (Sheet 25 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-656-1	1	36.47	1.12	0	43	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	30.80	1.12	14	46	
	3	24.25	1.12	191	75	
	4	18.18	1.12	86	90	
	5	12.04	1.12	13	23	
	6	8.68	1.12	181	28	
	7	4.99	1.12	161	53	
		37.55	4	4	3000	
209-076-658-1	1	49.94	1.12	0	89	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	44.36	1.12	180	88	
	3	38.30	1.12	343	62	
	4	34.87	1.12	162	61	
	5	31.39	1.12	239	21	
	6	27.49	1.12	356	28	
	7	18.61	1.12	88	33	
	8	16.33	1.12	219	18	
	9	13.29	1.12	126	89	
	10	7.58	1.12	211	14	
	11	5.54	1.12	259	59	
	12	2.04	1.12	130	39	
		51.35	4	4	3000	
209-076-659-1	1	42.23	1.12	0	143	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	34.60	1.12	197	55	
	3	30.96	1.12	286	20	
	4	27.22	1.12	49	28	
	5	18.33	1.12	137	32	
	6	16.01	1.12	270	21	
	7	13.11	1.12	179	92	
	8	6.87	1.12	230	14	
	9	5.14	1.12	355	52	
	10	2.84	1.12	232	70	
		43.23	4	4	3000	

Table D-2 (Sheet 26 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-660-1	1	8.60	1.12	0	83	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	5.61	1.12	149	47	
	3	3.46	1.12	283	73	
	4	1.12	1.12	333	11	
		9.84	4	4	3000	
209-076-661-1	1	13.71	1.12	0	114	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	7.01	1.12	37	26	
	3	4.89	1.12	238	66	
		14.74	4	4	3000	
209-076-662-1	1	8.50	0.56	0	175	A — MS21921-4D MS21922-4 B — MS21921-4D MS21922-4
	2	3.00	0.56	260	55	
	3	1.88	0.56	346	90	
		9.37	4	4	3000	
209-076-663-1	1	4.88	0.56	0	128	A — MS21921-4D MS21922-4 B — MS21921-4D MS21922-4
	2	2.80	0.56	357	50	
		5.90	4	4	3000	
209-076-664-1	1	8.57	1.12	0	32	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	2.82	1.12	171	38	
		11.04	4	4	3000	
209-076-665-1	1	10.84	1.12	0	118	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	1.86	1.12	142	29	
		12.19	4	4	3000	

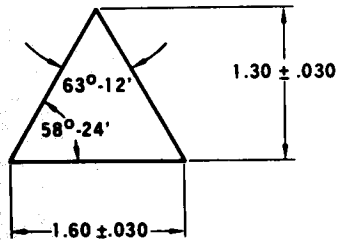
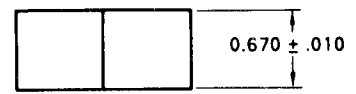
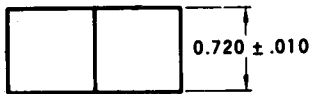
Table D-2 (Sheet 27 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-705-1	1	15.65	1.12	0	98	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	8.90	1.12	267	28	
	3	4.50	1.12	177	53	
	3	2.39	1.12	329	53	
		16.84	4	4	3000	
209-076-706-1	1	10.12	1.125	0	175	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	5.10	1.125	296	11	
	3	3.36	1.125	206	89	
		11.37	4	4	3000	
209-076-707-1	1	32.56	1.12	0	21	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	30.80	1.12	181	20	
	3	22.31	1.12	254	78	
	4	16.19	1.12	147	88	
	5	10.15	1.12	84	15	
	6	6.80	1.12	245	23	
	7	2.83	1.12	226	45	
		33.98	4	4	3000	
209-076-708-1	1	13.31	0.75	0	11	A — MS21921-4D MS21922-4 B — MS21921-4D MS21922-4
	2	12.45	0.75	182	10	
	3	6.33	0.75	175	90	
		14.20	4	4	3000	
209-076-727-101	1	28.85	0.75	0	34	A — MS21921-4D MS21922-4 B — MS21921-4D MS21922-4
	2	27.36	0.75	184	33	
	3	24.12	0.75	0	93	
	4	20.57	0.75	265	91	
	5	17.98	0.75	10	36	
	6	15.88	0.75	132	47	
	7	13.35	0.75	255	36	
	8	10.82	0.75	65	86	
	9	6.81	0.75	248	87	
		29.94	4	4	3000	

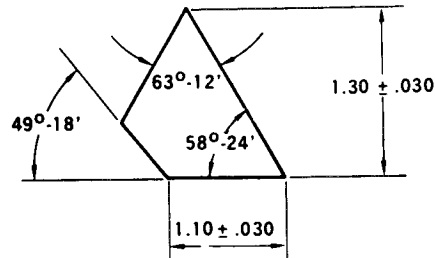
Table D-2 (Sheet 28 of 29)

PART NUMBER	BEND NO.	DIMENSION "C" FROM "A" END	BEND RADIUS	DIAL SETTING	BEND ANGLE	END FITTING AND NOTES
		DIMENSION "D"	TYPE END "A"	TYPE END "B"	PRESSURE TEST	
209-076-728-101	1	24.38	0.94	0	48	A — MS21921-5D MS21922-5 B — MS21921-5D MS21922-5
	2	22.05	0.94	95	90	
	3	18.33	0.94	335	86	
	4	14.41	0.94	179	36	
	5	11.99	0.94	317	37	
	6	9.37	0.94	134	88	
	7	6.52	0.94	317	87	
		25.22	4	4	3000	
209-076-758-101	1	10.75	1.125	0	90.5	A — MS21921-6D MS21922-6 B — MS21921-6D MS21922-6
	2	7.62	1.125	270.9	44.3	
	3	4.47	1.125	2.70	92.6	
			4	4	3000	

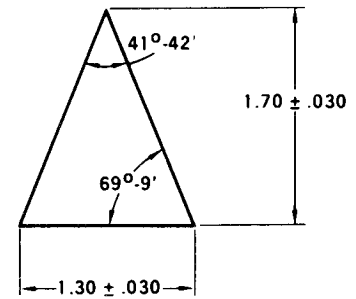
Table D-2 (Sheet 29 of 29)



188715-1



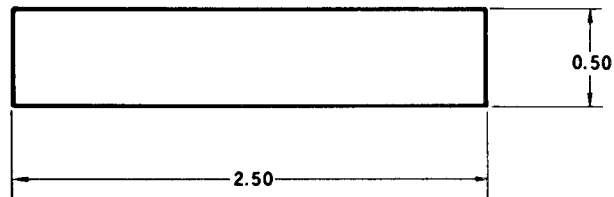
188715-3



188715-5

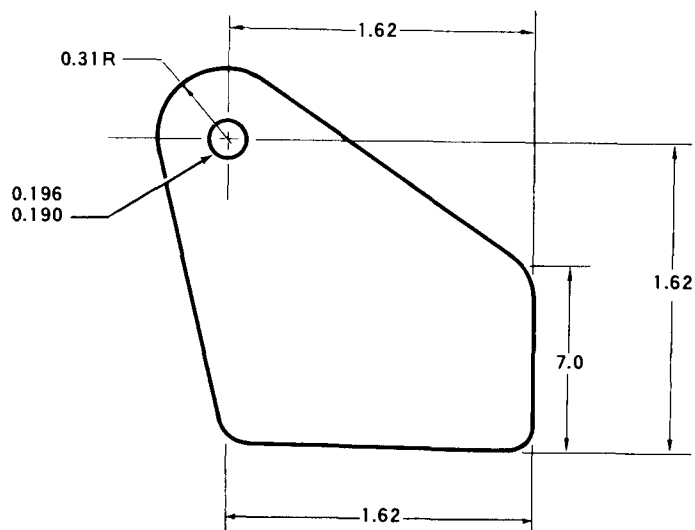
Part Number: 188715-1 SPACER
188715-3 SPACER
188715-5 SPACER
Fabricate from: NSN 9530-00-237-5160
Material: Aluminum Alloy, 2024,
Federal Specification
QQ-A-200/2, 0.75
in thk.

Figure D-187



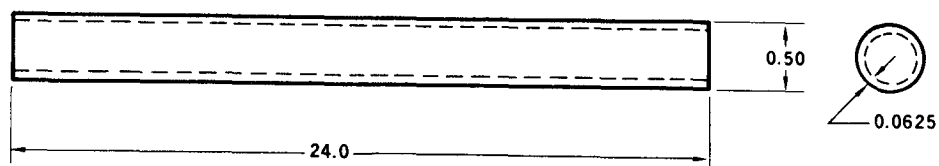
Part Number: 209-030-139-43 FILLER
Fabricate from: NSN 9535-00-167-2280
Material: 2024 Aluminum Alloy
Federal Specification QQ-A-250/5 T3
0.040 inch thick, 1.0 inch wide, 3.0 inch long

Figure D-188



Part Number: 209-030-216-43 LEFT SIDE ATTACHMENT
 209-030-216-44 RIGHT SIDE ATTACHMENT
Fabricate from: NSN 9535-00-232-0398
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.090 inch thick, 2.0 inch wide, 2.5 inch long

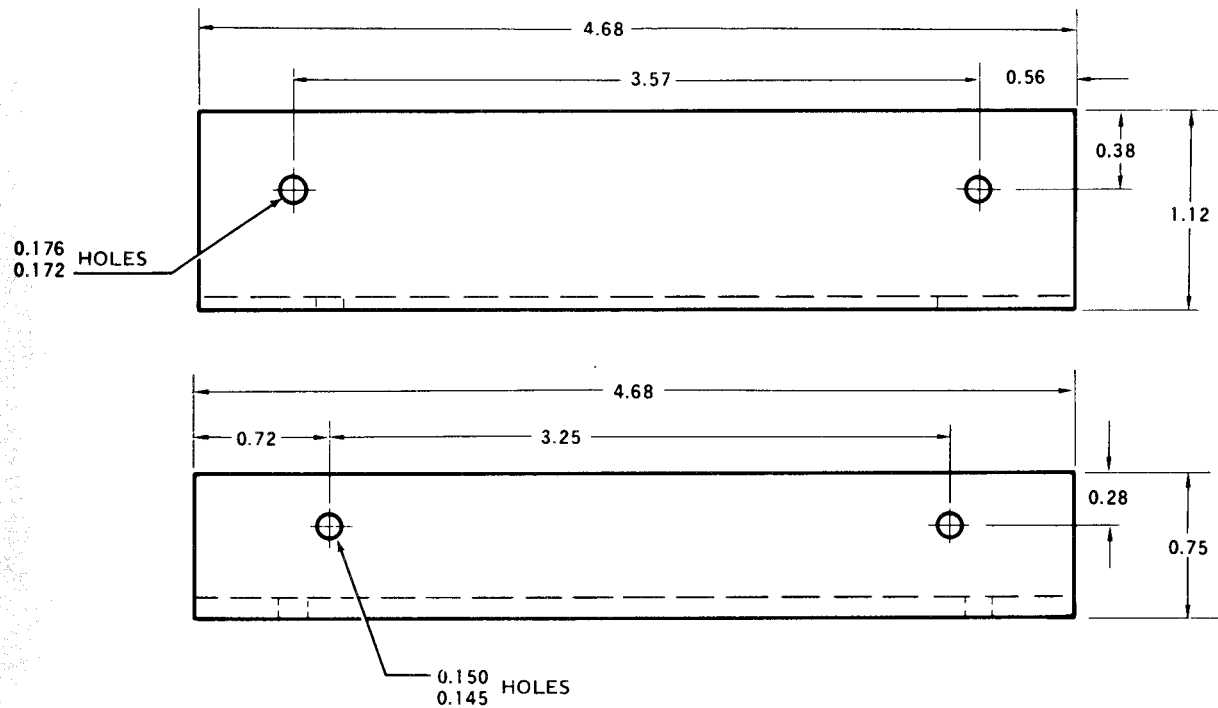
Figure D-189



Part Number: 209-031-812-15 TUBING
Fabricate from: NSN 4720-00-251-6515
Material: MP 1485 Clear Tube

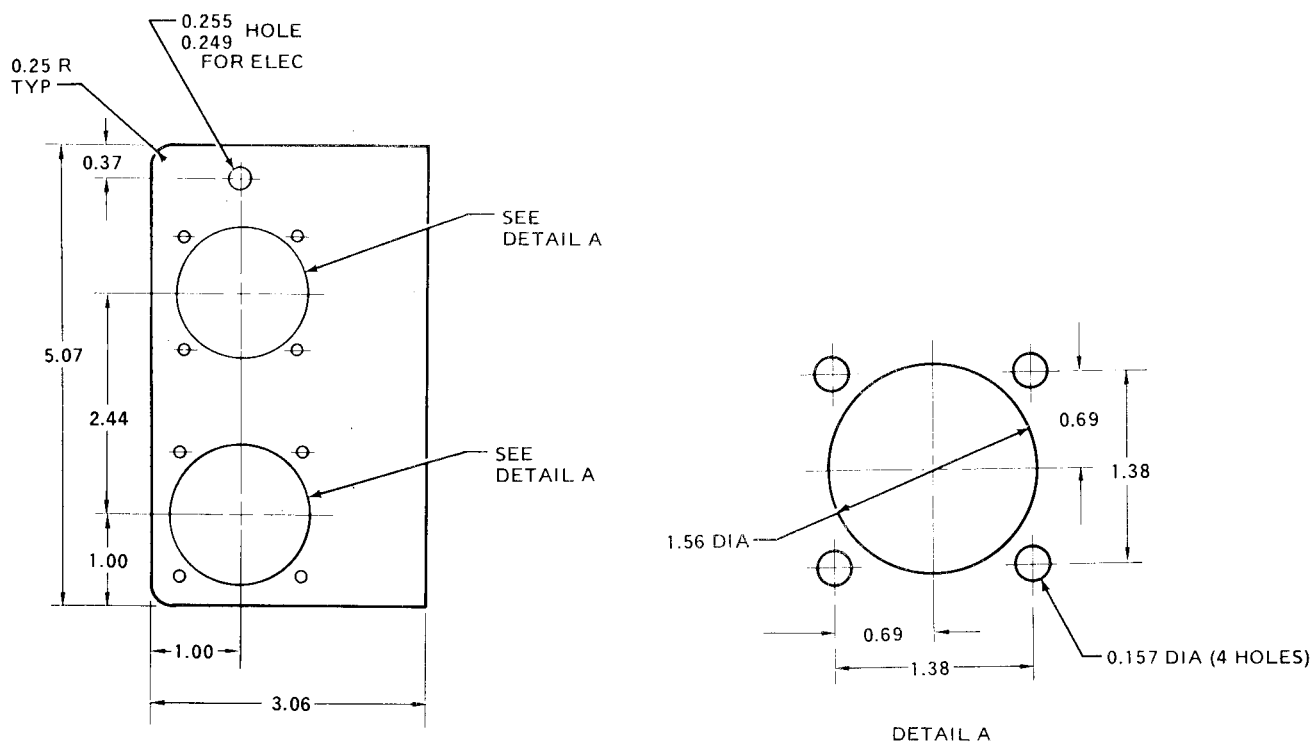


Figure D-190



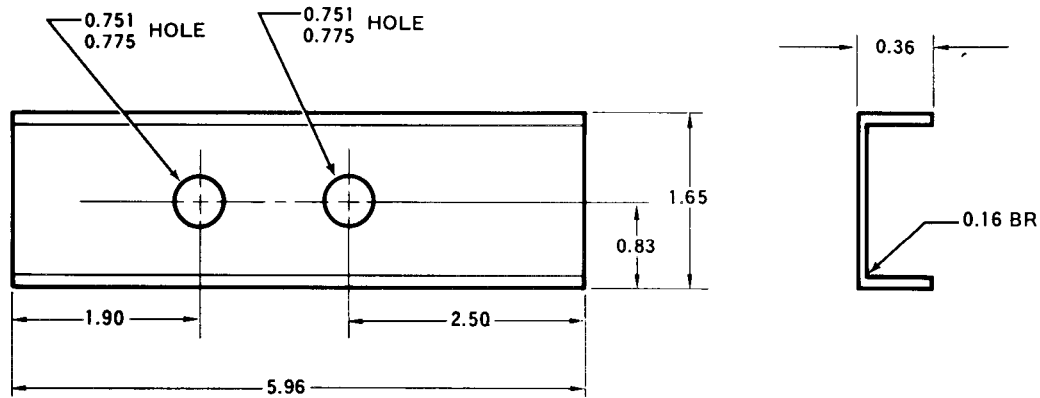
Part Number: 209-033-103-65 SUPPORT
Fabricate from: NSN 9535-00-086-9729
Material: 2024 Aluminum Alloy
Federal Specification QQ-A-250 T3
0.032 inch thick, 2.4 inch wide, 5.2 inch long

Figure D-191



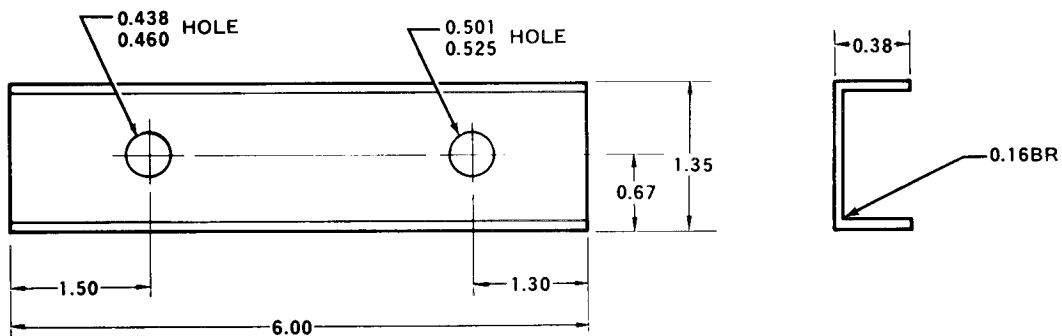
Part Number: 209-033-103-69 BRACKET
Fabricate from: NSN 9535-00-232-0569
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250 T3
 0.050 inch thick, 3.6 inch wide, 5.6 inch long

Figure D-192
 Figure D-192



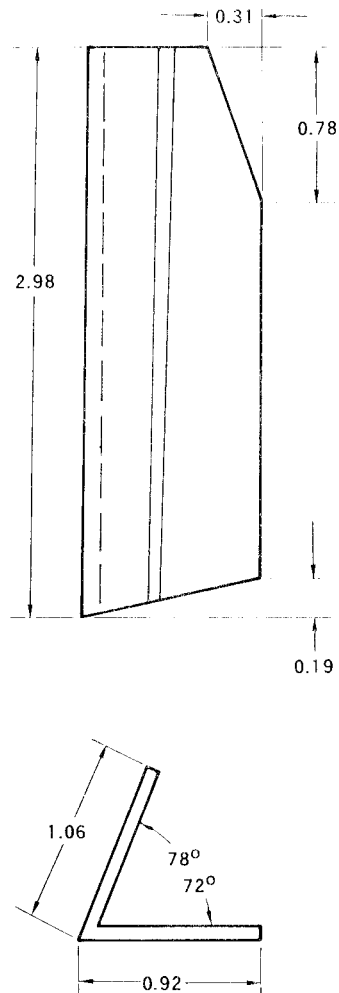
Part Number: 209-033-106-37 SUPPORT
Fabricate from: NSN 9535-00-167-2280
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.040 inch thick, 2.7 inch wide, 7.9 inch long

Figure D-193



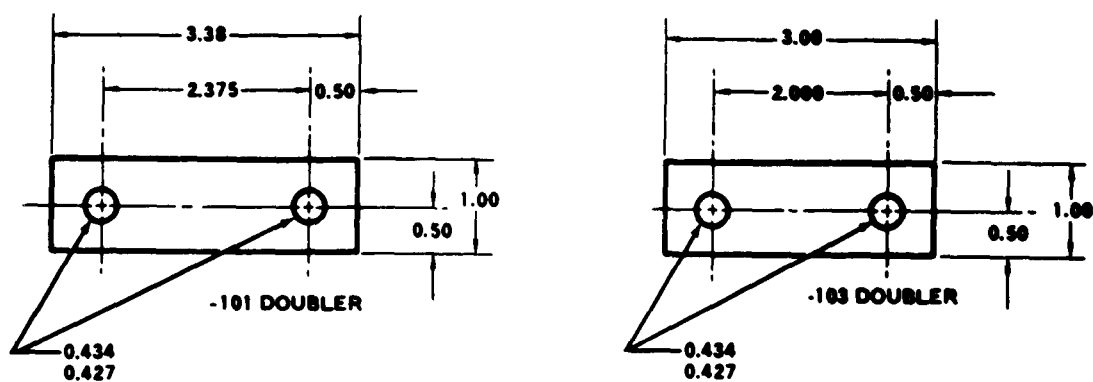
Part Number: 209-033-111-31 SUPPORT
Fabricate from: NSN 9535-00-167-2280
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.040 inch thick, 2.6 inch wide, 6.5 inch long

Figure D-194



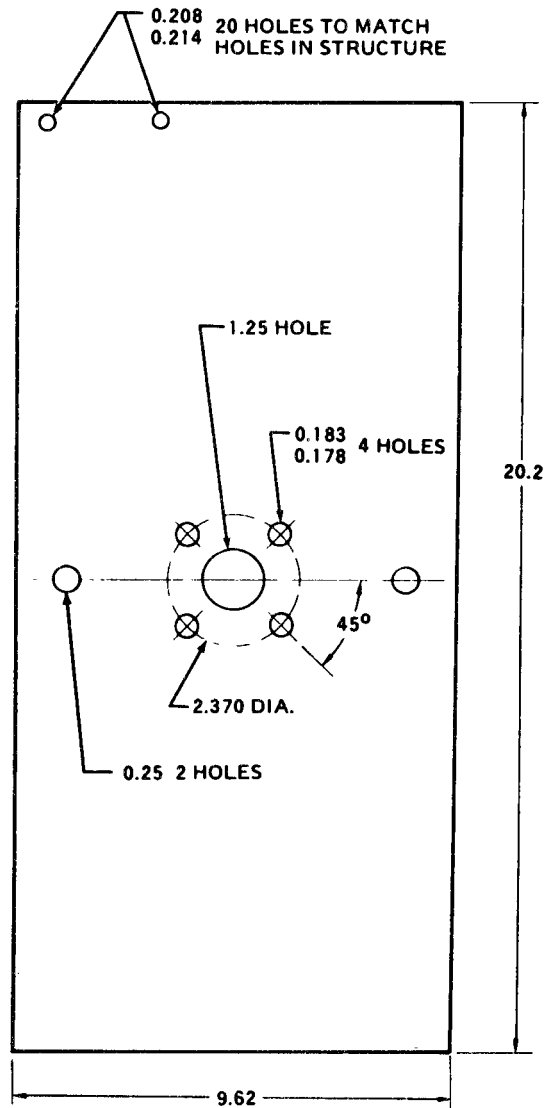
Part Number: 209-033-123-29 CLIP
Fabricate from: NSN 9535-00-232-0569
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T42
 0.05 inch thick, 2.5 inch wide, 3.5 inch long

Figure D-195



Part Number: 209-033-132-101 DOUBLER
209-033-132-103 DOUBLER
Fabricate from: NSN 9535-00-243-3512
Material: 7075 Aluminum Alloy
Federal Specification QQ-A-250/12 T6
0.090 inch thick, 1.5 inch wide, 3.5 inch long

Figure D-196

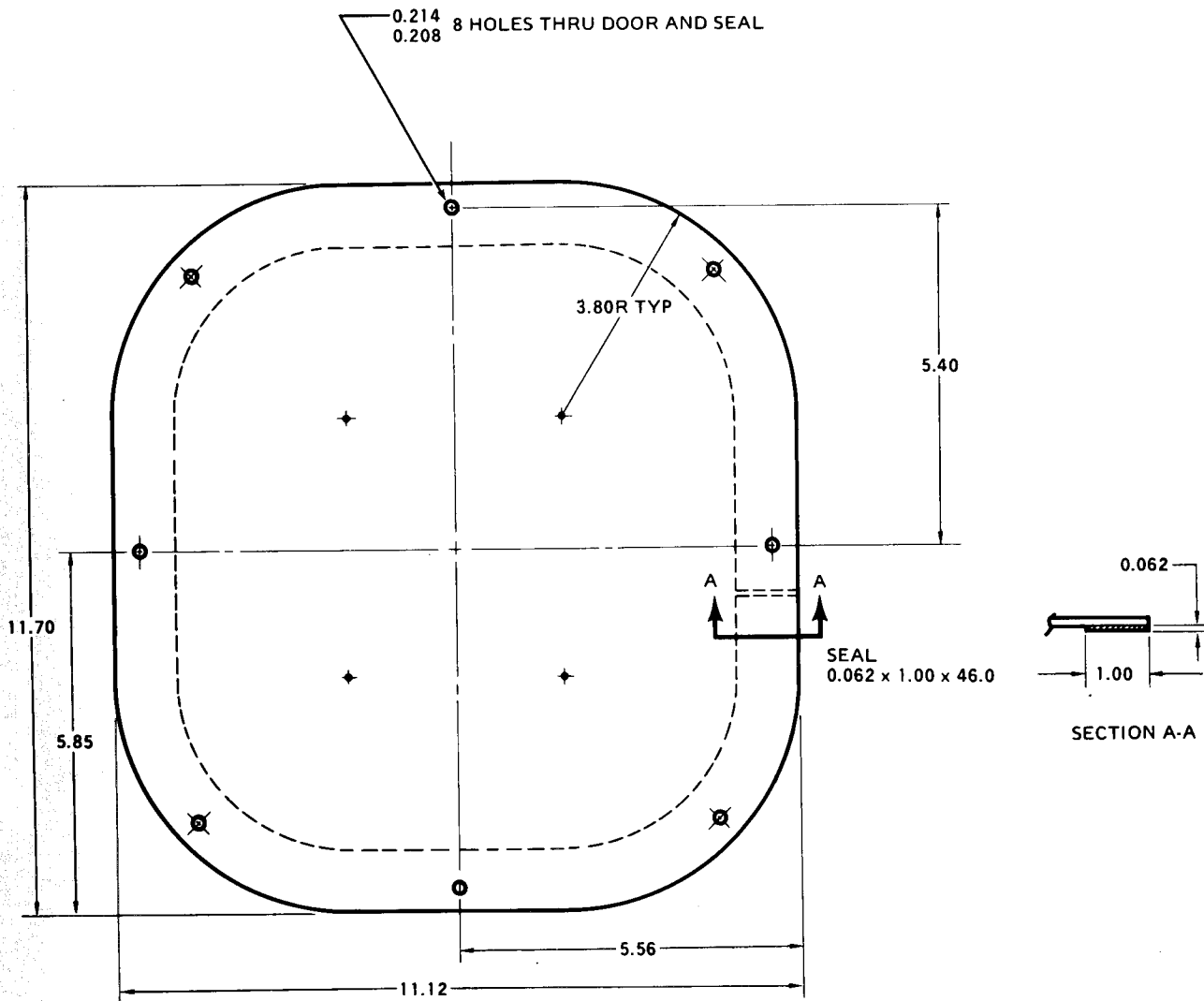


Part Number: 209-033-150-121 DOOR
209-033-150-123 DOOR (OPP SIDE)

Fabricate from: NSN 9535-00-086-9729

Material: Aluminum Alloy
Federal Specification QQ-A-250/5 T3
0.032 inch thick, 10.5 inch wide, 21.0 inch long

Figure D-197



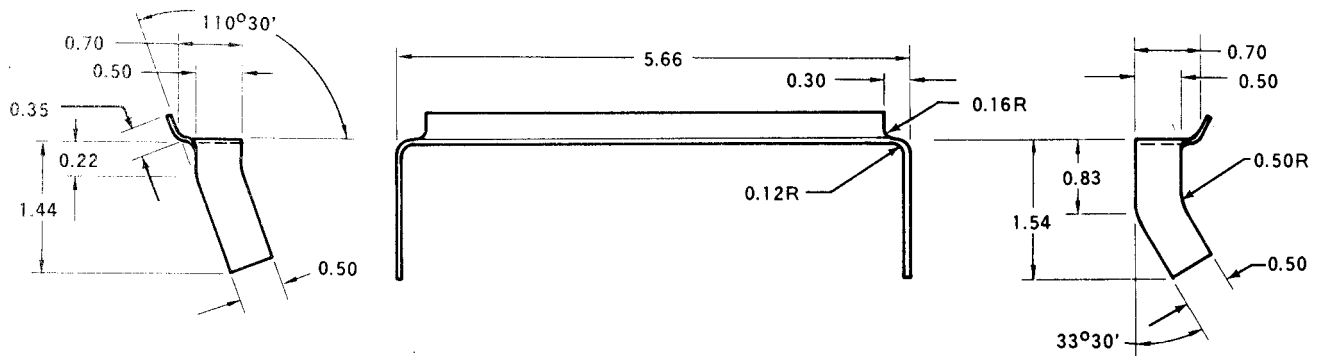
Part Number: 209-033-157-21 DOOR ASSY
110-070-32-0460 SEAL

Fabricate from: NSN 9535-00-088-6599

Material: 7075 Aluminum Alloy
Federal Specification QQ-A-250/13 T6
0.063 inch thick, 11.7 inch wide, 12.2 inch long

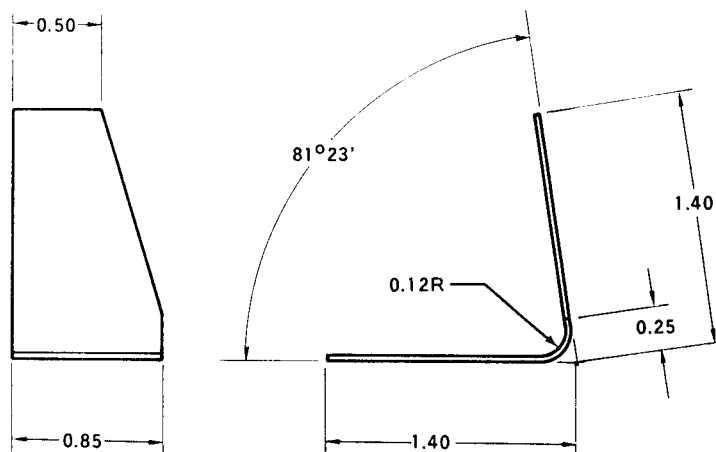
NOTE: Adhesive, Per 299-947-152
Type I, Class I

Figure D-198



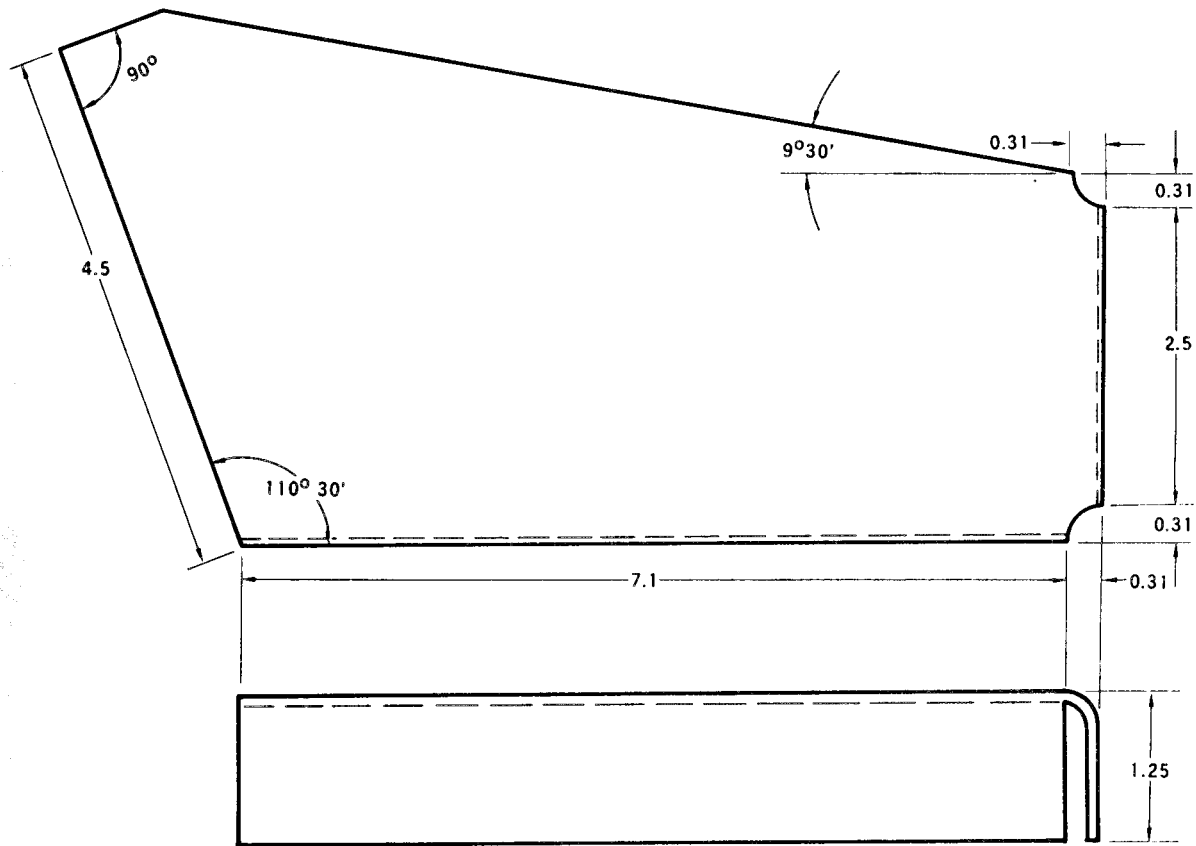
Part Number: 209-033-189-117 STIFFENER
 Fabricate from: NSN 9535-00-086-9729
 Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.032 inch thick, 1.6 inch wide, 9.2 inch long

Figure D-199



Part Number: 209-033-189-15 CLIP
 Fabricate from: NSN 9535-00-086-9729
 Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.032 inch thick, 1.4 inch wide, 3.4 inch long

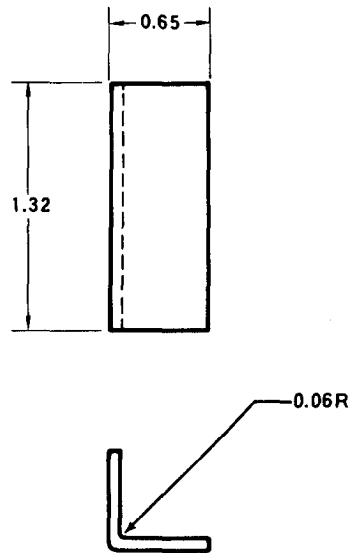
Figure D-200



Part Number: 209-033-189-21 SUPPORT
Fabricate from: NSN 9535-00-232-0546
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T42
 0.032 inch thick, 6.7 inch wide, 24.1 inch long



Figure D-201

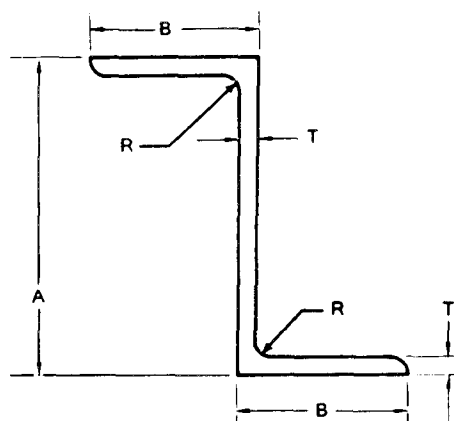


Part Number:	209-033-189-23 CLIP	
Fabricate from:	NSN 9535-00-232-0546	
Material:	2024 Aluminum Alloy	
	Federal Specification QQ-A-250/5 T0	

0.032 inch thick, 1.7 inch wide, 1.9 inch long

Figure D-202

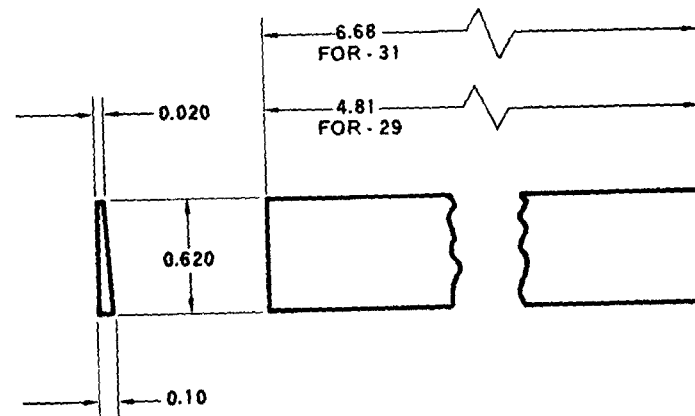
SHARP EDGES
ROUNDED .010



PART NUMBER	A	B	T	R	LENGTH	NSN
209-033-189-25	0.625	0.625	0.050	0.094	3.46	9540-01-086-0586
209-033-189-27	0.875	0.750	0.050	0.094	13.0	9540-01-102-1943
209-033-846-115	0.875	0.875	0.050	0.094	28.5	
209-033-846-131	0.875	0.875	0.050	0.094	26.8	

Part Number: (See Chart) SUPPORT
 Fabricate from: NSN
 Material: Aluminum Alloy
 Federal Specification QQ-A-200/3 T4

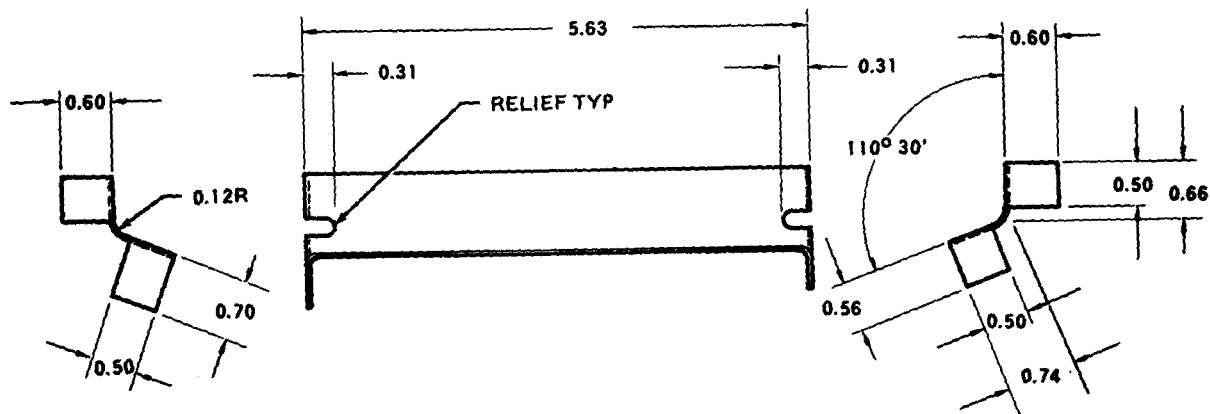
Figure D-203



Part Number: 209-033-189-29 SHIM
 209-033-189-31 SHIM
Fabricate from: NSN 9535-00-288-0675
Material: 209-033-189-29 Shim
 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.10 inch thick, 1.1 inch wide, 6.3 inch long
 209-033-189-31 Shim
 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.10 inch thick, 1.1 inch wide, 7.2 inch long



Figure D-204



Part Number: 209-033-189-33 STIFFENER
Fabricate from: NSN 9535-00-086-9729
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.032 inch thick, 2.0 inch wide, 7.4 inch long

Figure D-205

Part Number: 209-033-243-101 SUPPORT ASSY
 Fabricate from: NSN 9535
 Material: 209-033-243-115 Bracket
 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.040 inch thick, 7.1 inch wide, 12.3 inch long

209433-243-117 Bracket
 Aluminum Alloy
 Federal Specification QQ-A-250/5 TO
 0.040 inch thick, 6.8 inch wide, 11.9 inch long

209-033-243-119 Shelf
 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.050 inch thick, 9.8 inch wide, 12.9 inch long

MS21075L3 Nutplates

MS20426AD4 Rivets

MS20426AD3 Rivets

Figure D-206 (Sheet 1 of 5)

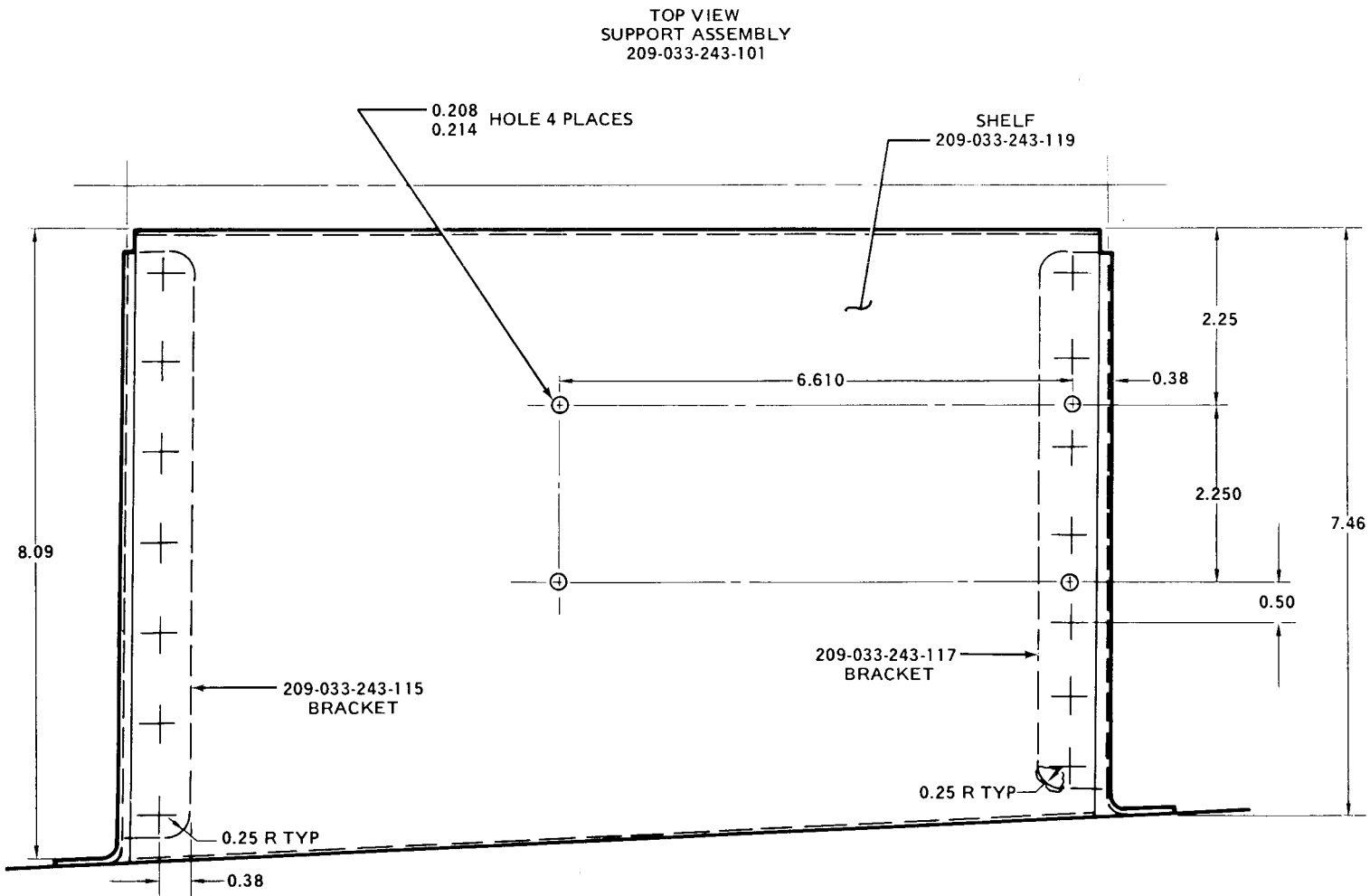


Figure D-206 (Sheet 2 of 5)

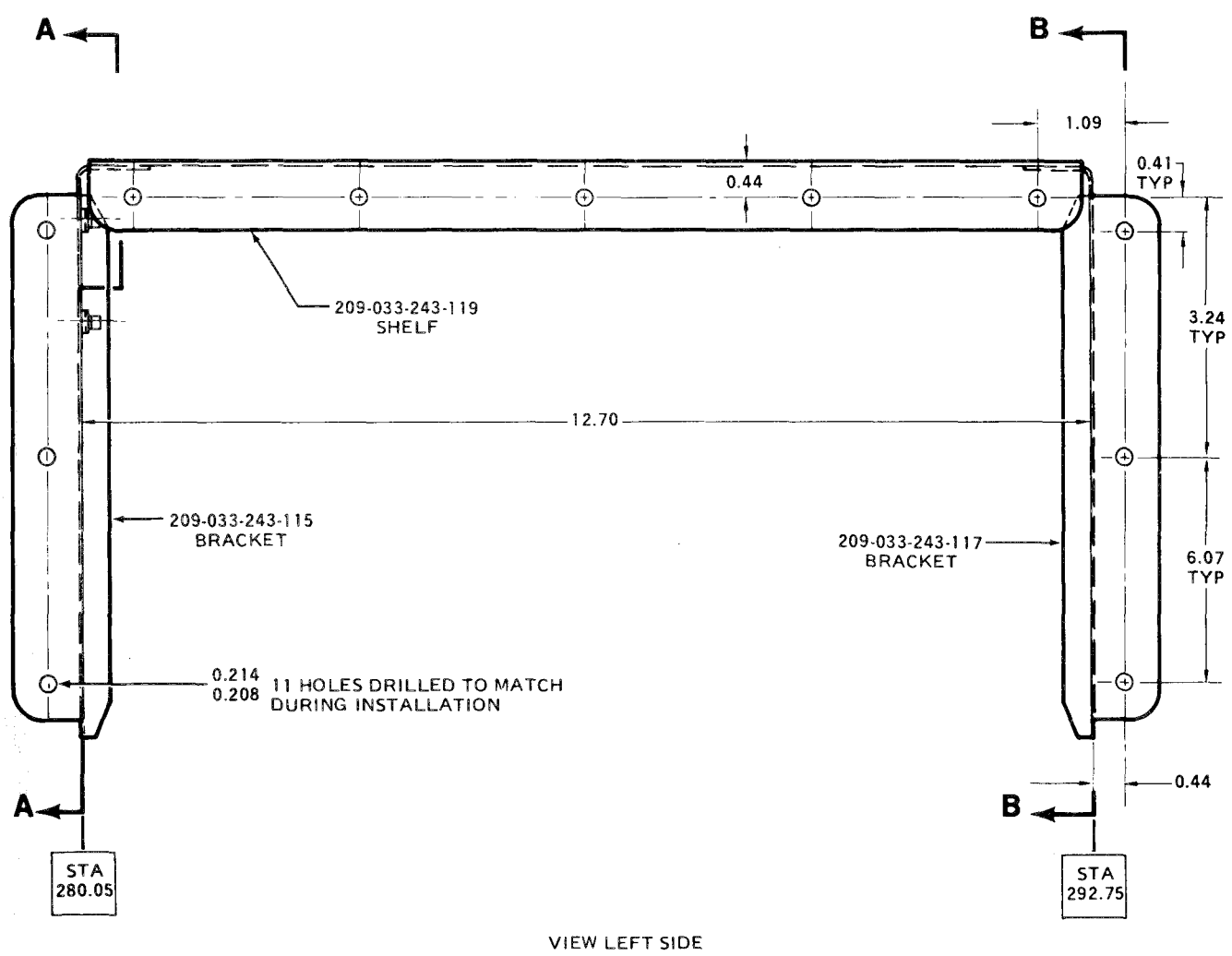


Figure D-206 (Sheet 3 of 5)

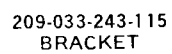
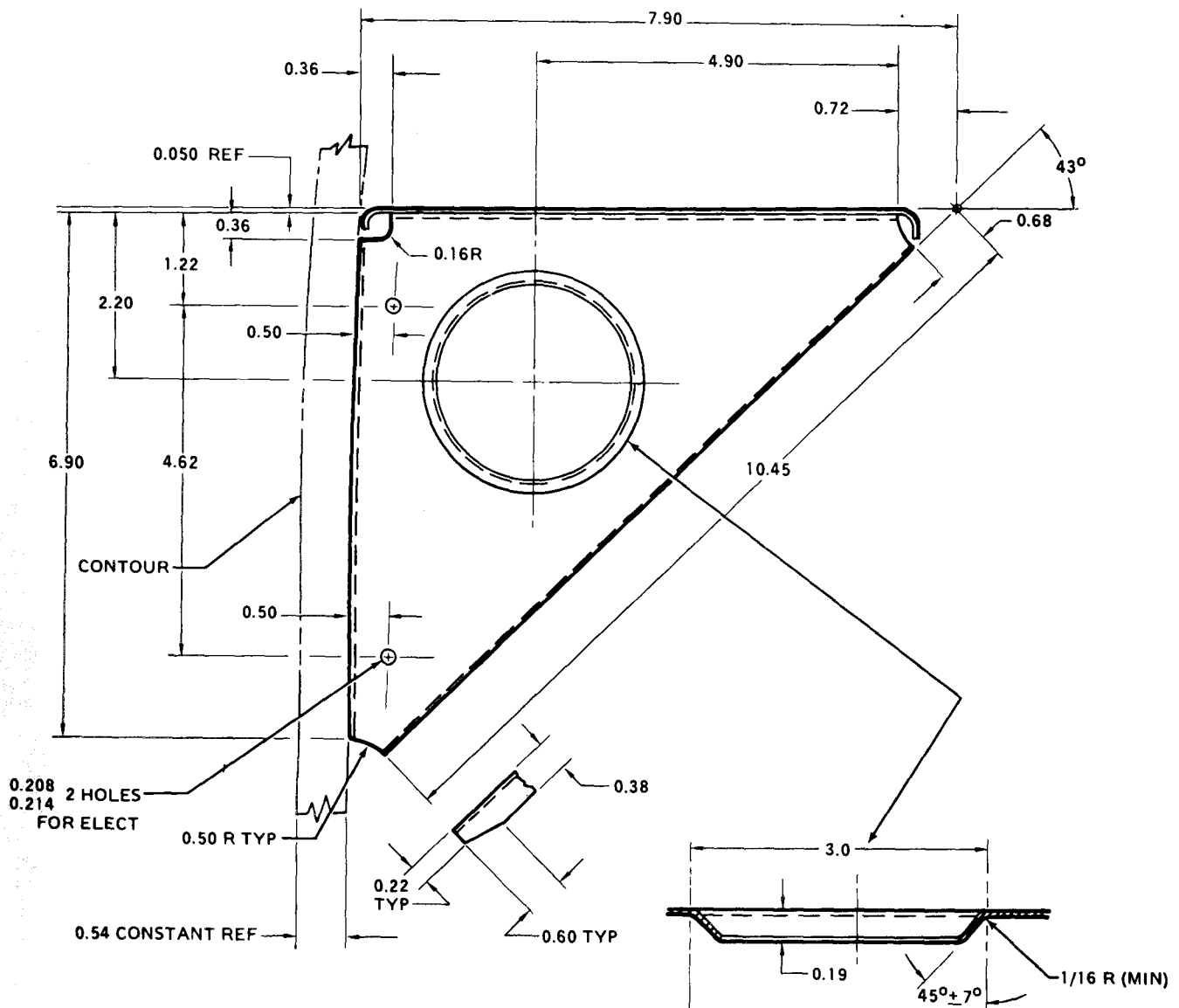


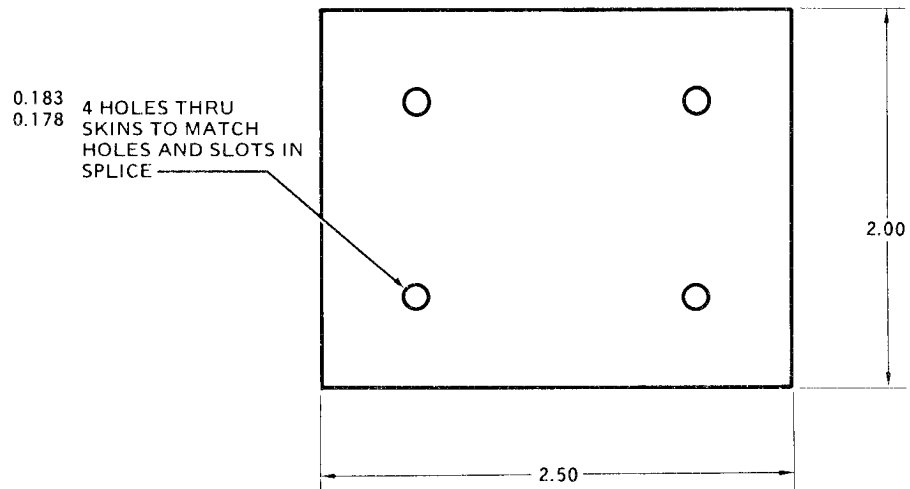
Figure D-206 (Sheet 4 of 5)



SECTION B-B

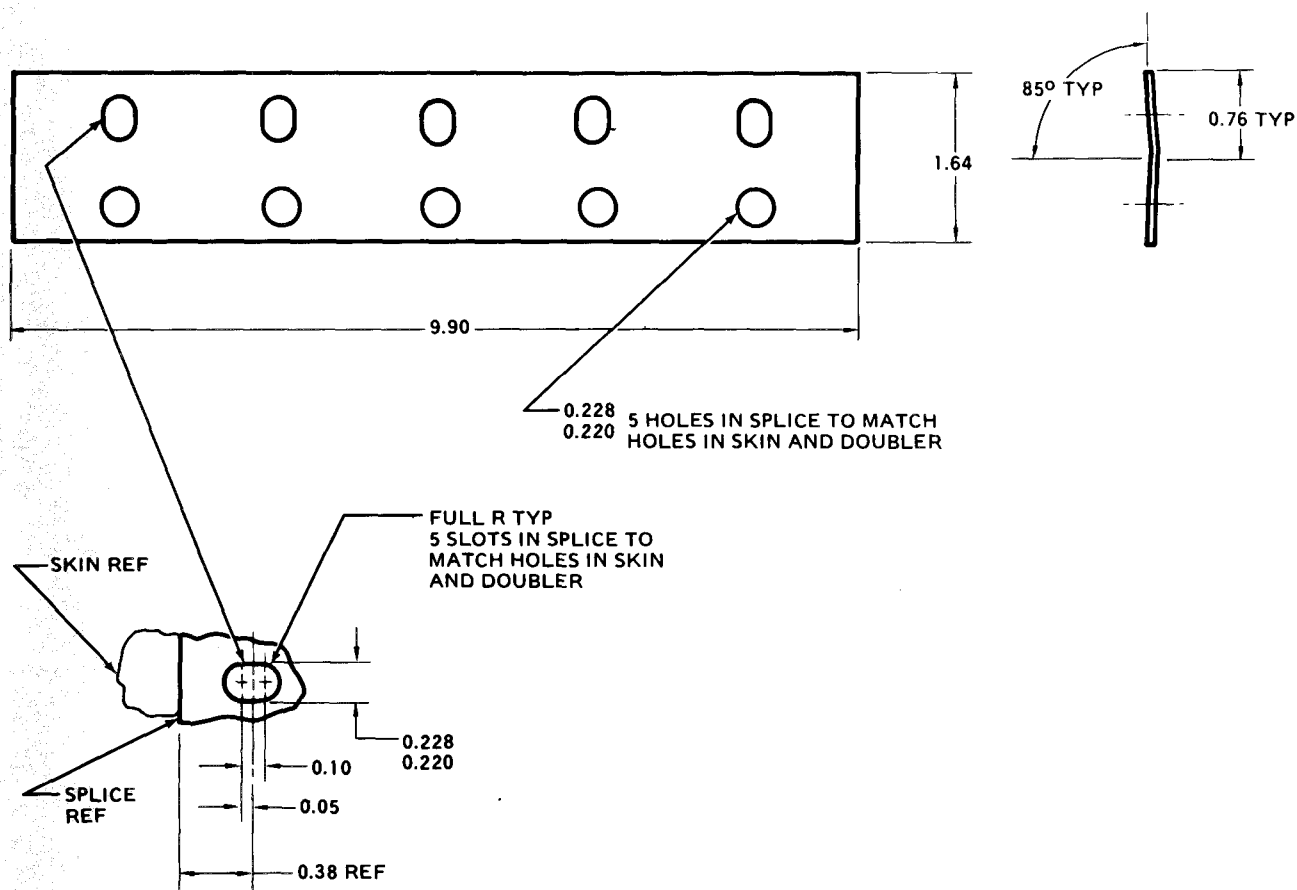
209-033-243-117
BRACKET

Figure D-206 (Sheet 5 of 5)



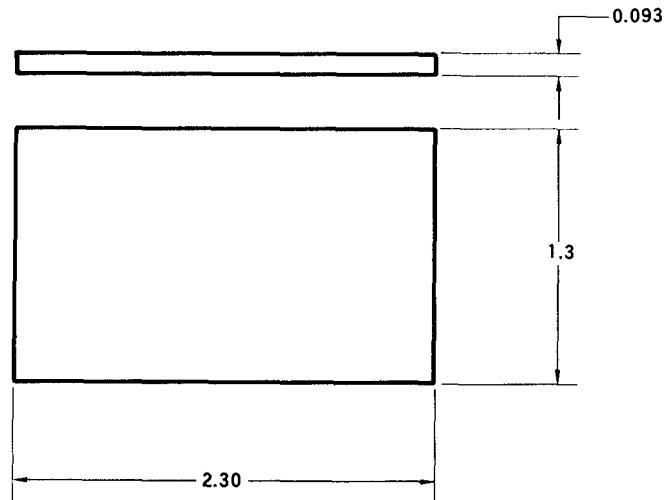
Part Number:	209-033-276-15 SPLICE
Fabricate from:	NSN 9535-00-086-9729
Material:	Aluminum Alloy
	Federal Specification QQ-A-250/5 T3
	0.032 inch thick, 3.0 inch wide, 3.5 inch long

Figure D-207



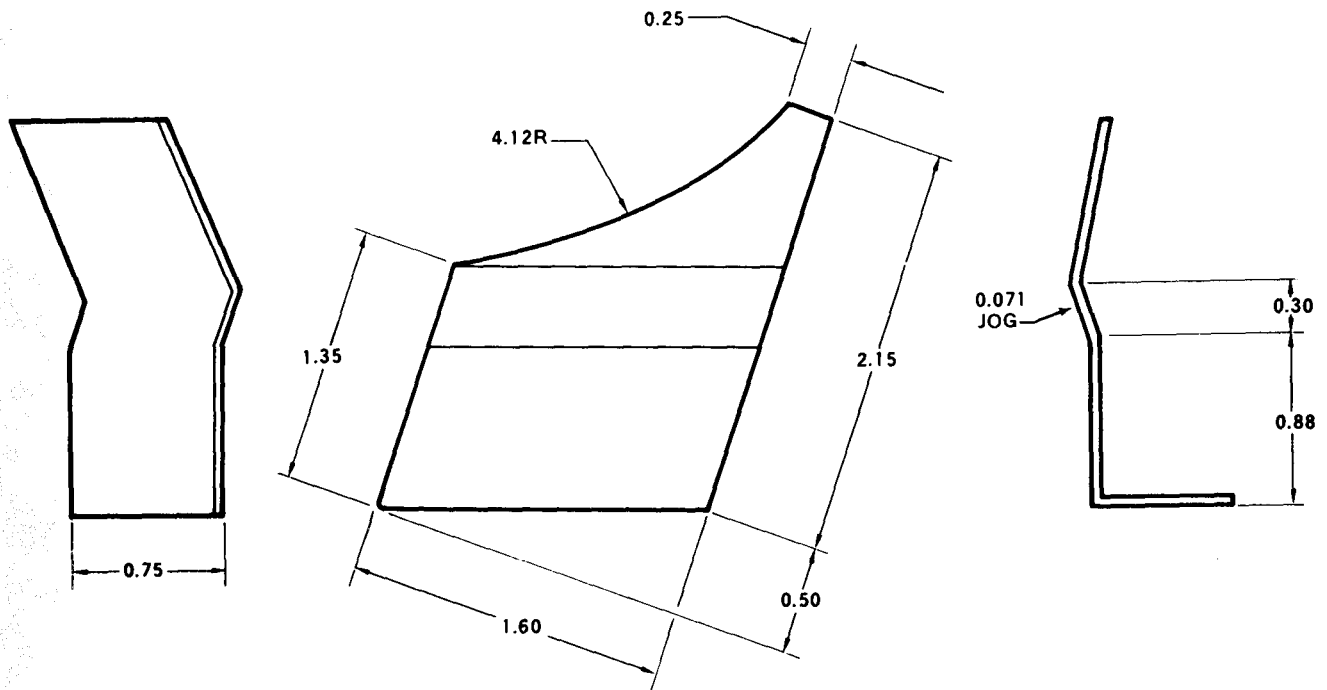
Part Number: 209-033-276-39 SPLICE
Fabricate from: NSN 9535-00-232-0569
Material: Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.050 inch thick, 2.2 inch wide, 10.4 inch long

Figure D-208



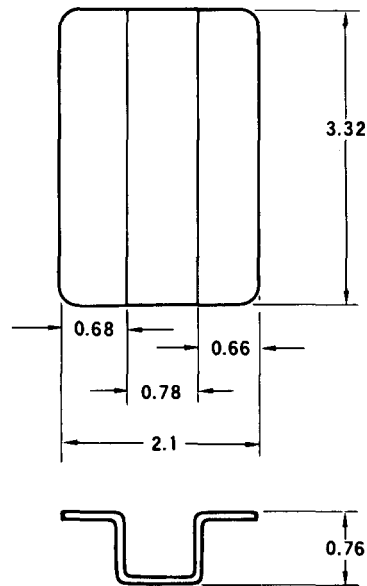
Part Number:	209-033-281-117 SHIM
Fabricate from:	NSN
Material:	Aluminum Alloy Foil (1145-H19) 0.003 Laminations - Surface Bonded

Figure D-209



Part Number: 209-033-500-103 GUSSET
Fabricate from: NSN 9535-00-232-0378
Material: Aluminum Alloy
Federal Specification QQ-A-250/5 TO
0.063 inch thick, 2.9 inch wide, 3.3 inch long

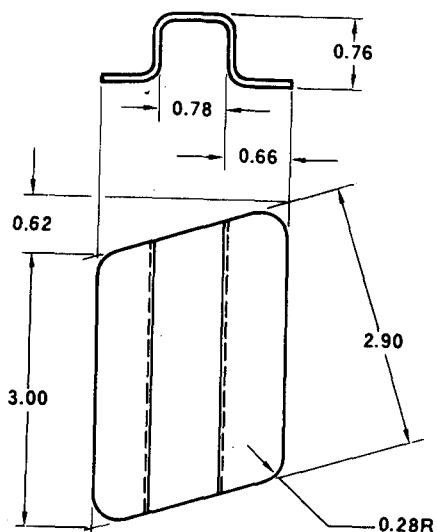
Figure D-210



Part Number:	209-033-846-119 BRACKET	
Fabricate from:	NSN 9535-00-236-7083	
Material:	Aluminum Alloy	
	Federal Specification QQ-A-250/13 T0	

0.071 inch thick, 4.1 inch wide, 3.5 inch long

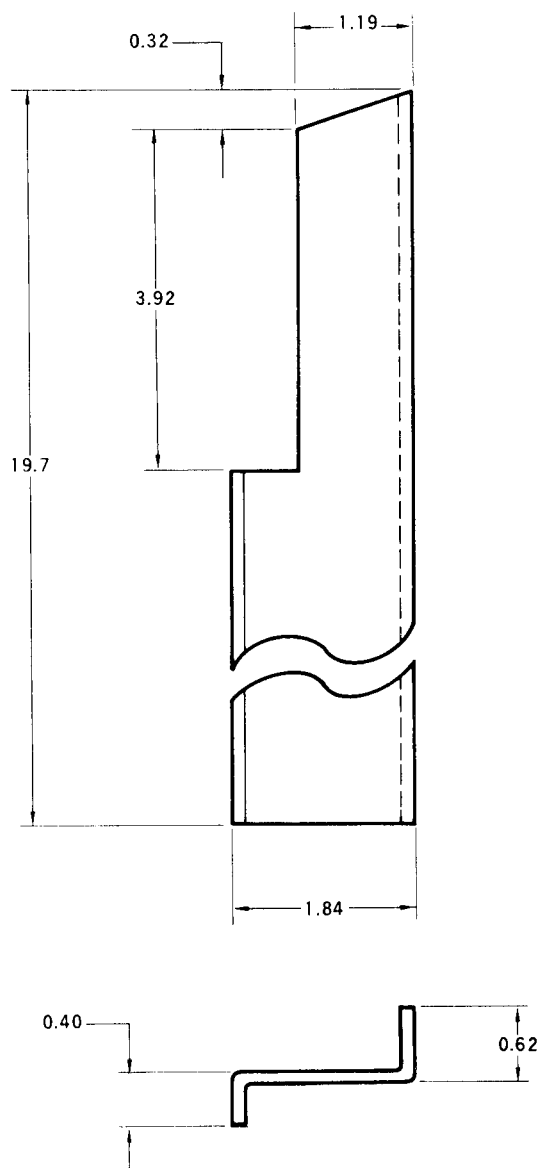
Figure D-211



Part Number: 209-033-846-121 BRACKET
Fabricate from: NSN 9535-00-236-7083
Material: Aluminum Alloy
 Federal Specification QQ-A-250/13 T0
 0.071 inch thick, 4.1 inch wide, 4.8 inch long

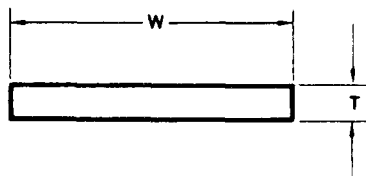


Figure D-212



Part Number: 209-033-846-123 SUPPORT 
Fabricate from: NSN 9535-00-034-4581
Material: Aluminum Alloy
 Federal Specification QQ-A-250/13 T0
 0.040 inch thick, 3.5 inch wide, 20.4 inch long

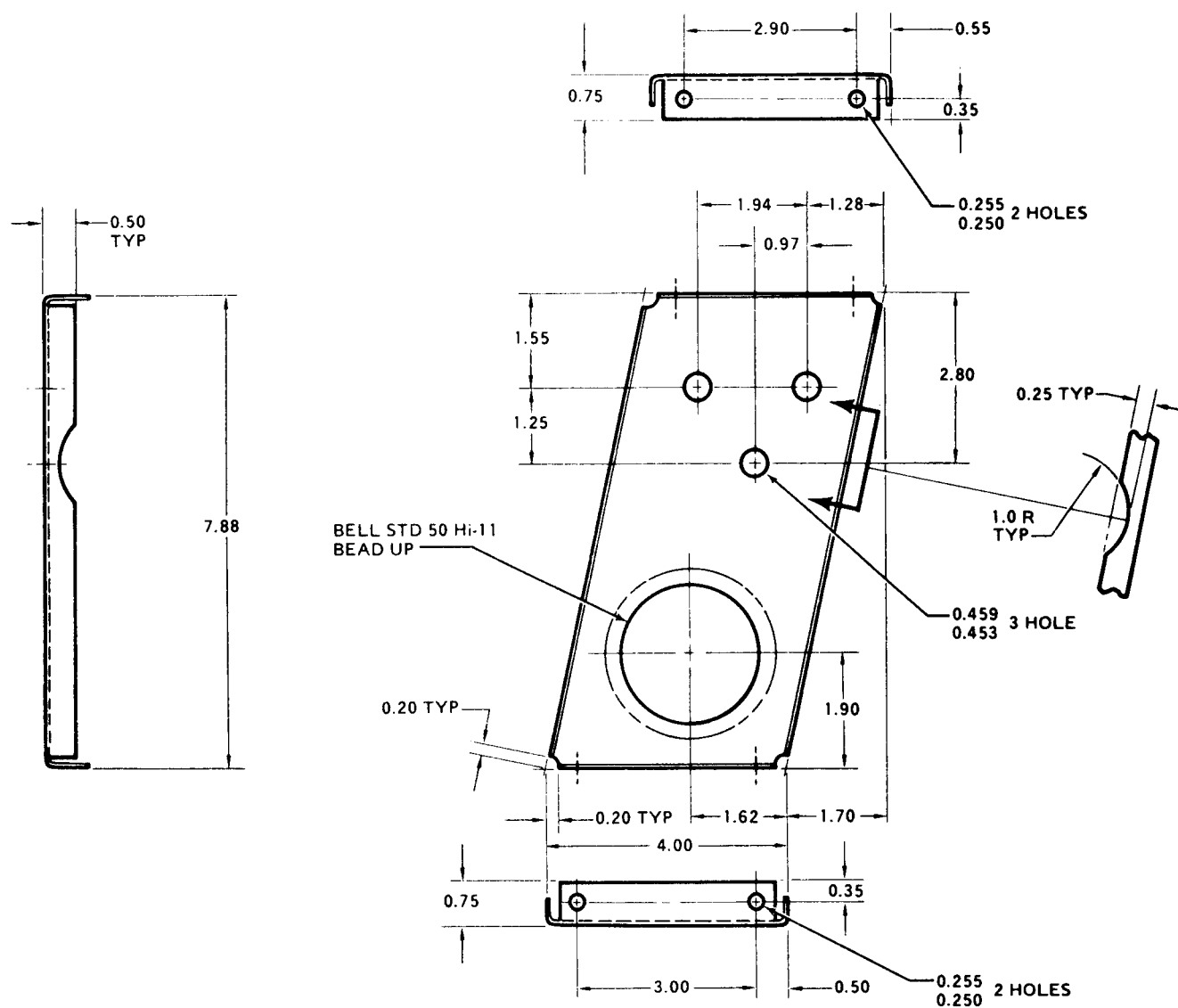
Figure D-213



PART NUMBER	W	T	LENGTH	NSN
209-061-801-31	0.75	0.062	18.0	9320-00-878-6507
209-061-801-33	0.75	0.062	21.0	9320-00-878-6507
209-061-803-131	0.075	0.062	18.0	9320-00-827-0584
209-061-803-133	0.075	0.062	21.0	9320-00-827-0584

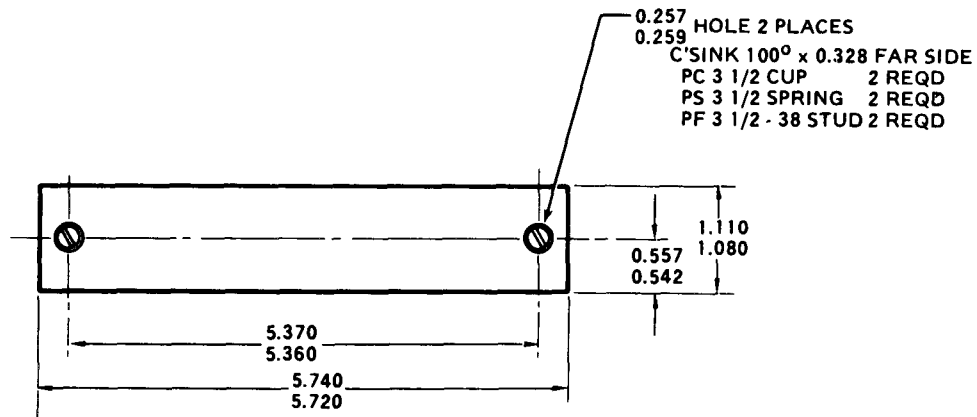
Part Number: (See Chart) SEAL
 Fabricate from: NSN
 Material: AMS 3195

Figure D-214



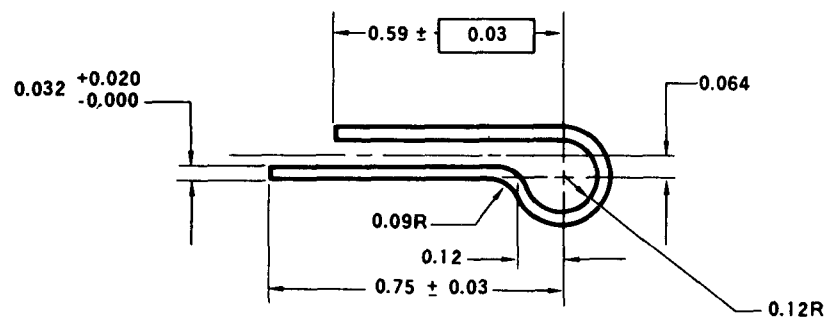
Part Number: 209-063-536-1 BRACKET
Fabricate from: NSN 9535-00-086-9729
Material: Aluminum Alloy,
 Federal Specification QQ-A-250/5 T3
 0.032 inch thick, 5.50 inch wide, 10.00 inch long

Figure D-215



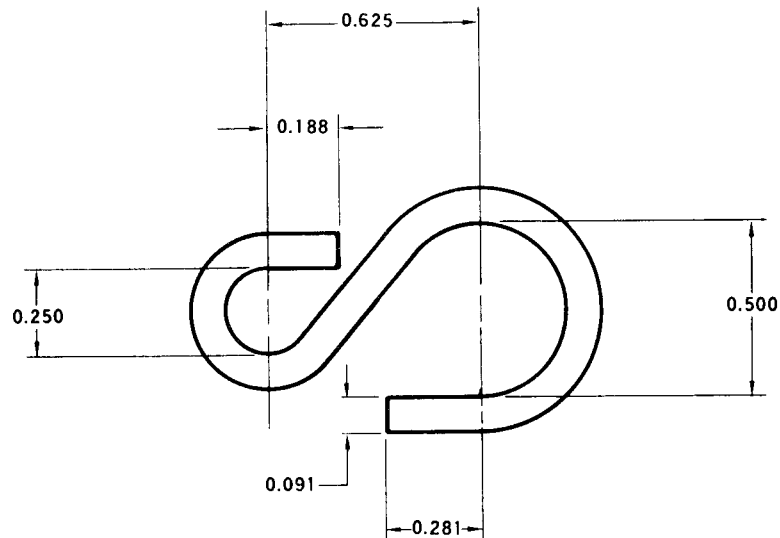
Part Number: 204-075-266-41 COVER PLATE
Fabricate from: NSN 9535-00-242-8605
Material: 5052 Aluminum Alloy
 Federal Specification QQ-A-318/5 T3
 0.063 inch thick, 1.60 inch wide, 6.20 inch long

Figure D-216



Part Number: 209-071-345-25 EDGING
Fabricate from: NSN 9390-01-057-9738
Material: MIL-R-6855, Class III
 Grade 60 synthetic rubber

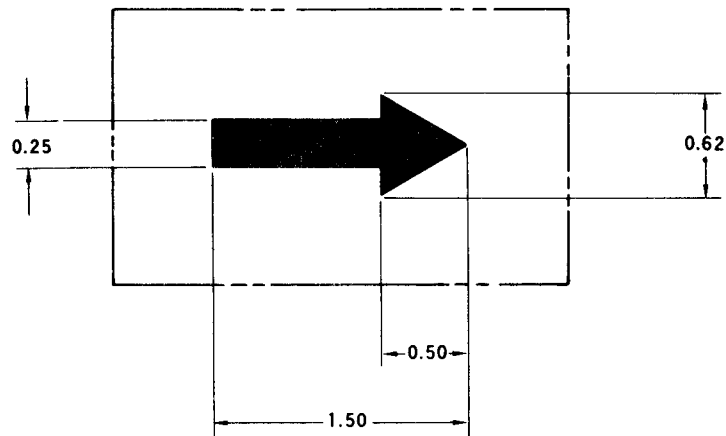
Figure D-217



Part Number: 209-072-103-1 STOWAGE NET HOOK
 Fabricate from: NSN 8010-01-042-4196
 Material: Cres Wire
 Federal Specification QQ-W-423
 Hook shall be coated black per
 MIL-C-13924, Class 4

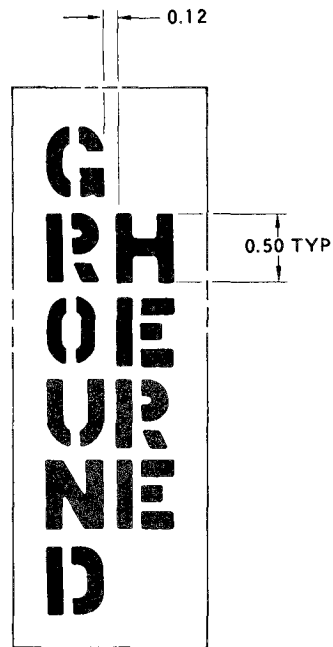


Figure D-218



Part Number: 209-072-635-1 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-219



Part Number: 209-072-636-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-220



Part Number: 209-072-637-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-221



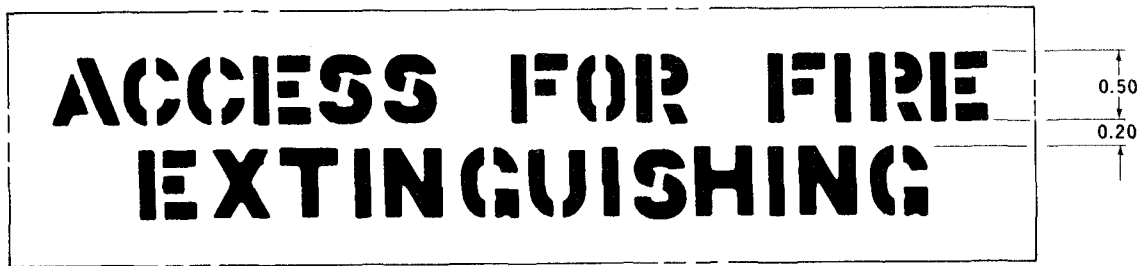
Part Number: 209-072-638-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled,
Federal Specification UU-S-625
Type 2, Grade 1, 0.018 inch thick

Figure D-222



Part Number: 209-072-639-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled,
Federal Specification UU-S-625
Type 2, Grade 1, 0.018 inch thick

Figure D-223



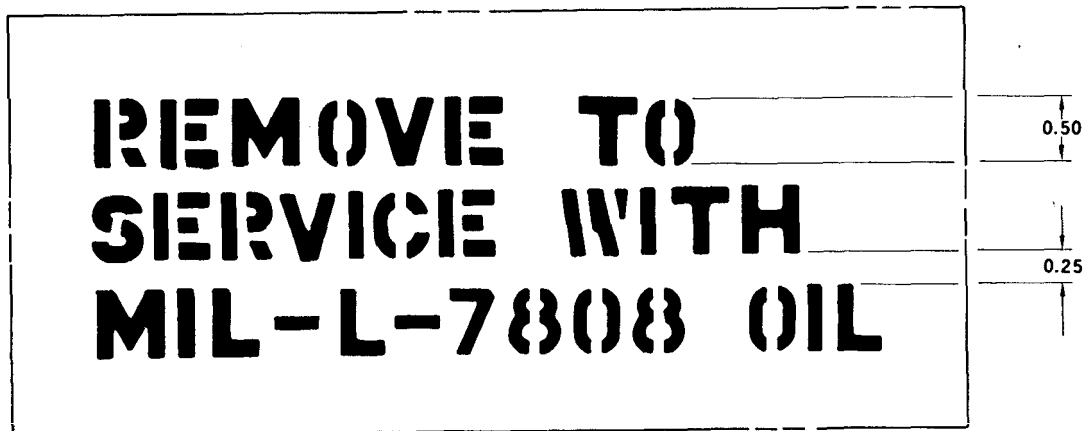
Part Number: 209-072 -640-1 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-224



Part Number: 209-072 -641-1 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-225



Part Number: 209-072 -642-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled,
Federal Specification UU-S-625
Type 2, Grade 1, 0.018 inch thick

Figure D-226



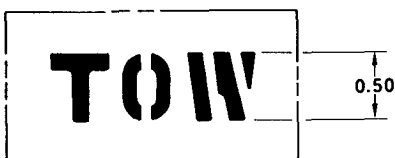
Part Number: 209-072-643-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled,
Federal Specification UU-S-625
Type 2, Grade 1, 0.018 inch thick

Figure D-227



Part Number: 209-072-644-1 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-228



Part Number: 209-072-645-1 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-229

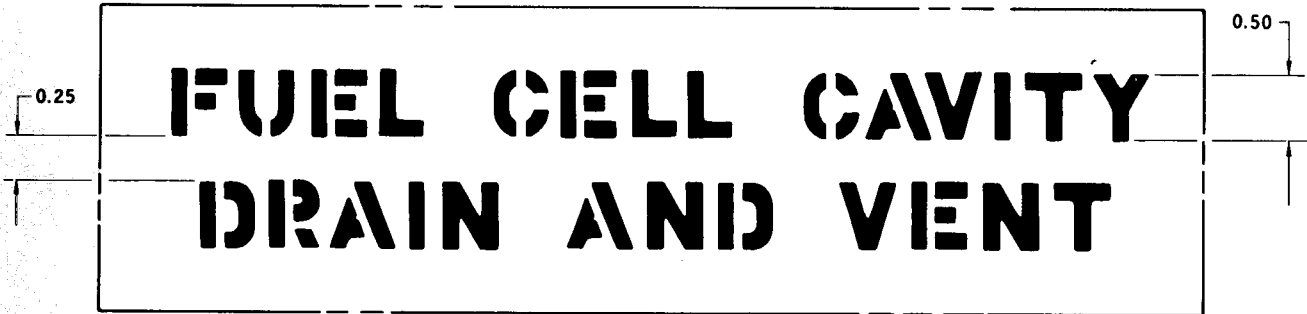
Part Number: 209-072 -647-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled,
Federal Specification UU-S-625
Type 2, Grade 1, 0.018 inch thick

Figure D-230



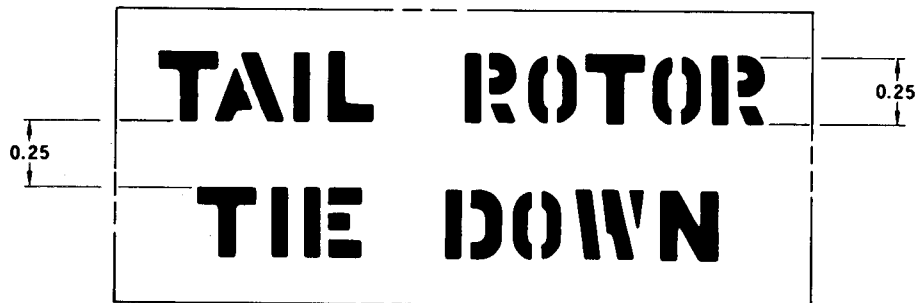
Part Number: 209-072-648-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled,
Federal Specification UU-S-625
Type 2, Grade 1, 0.018 inch thick

Figure D-231



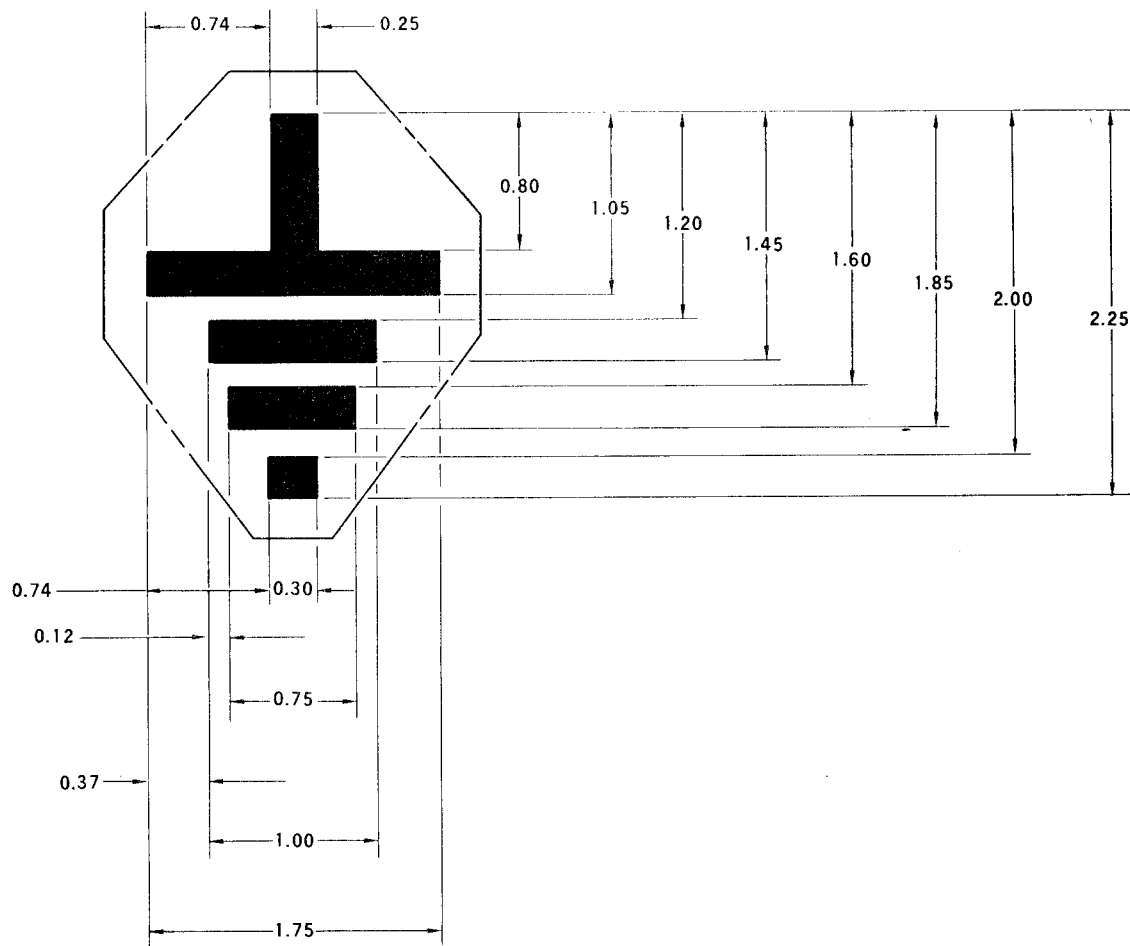
Part Number:	209-072-649-1 STENCIL
Fabricate from:	NSN 9310-00-265-6797
Material:	Stencil Board, Oiled, Federal Specification UU-S-625 Type 2, Grade 1, 0.018 inch thick

Figure D-232



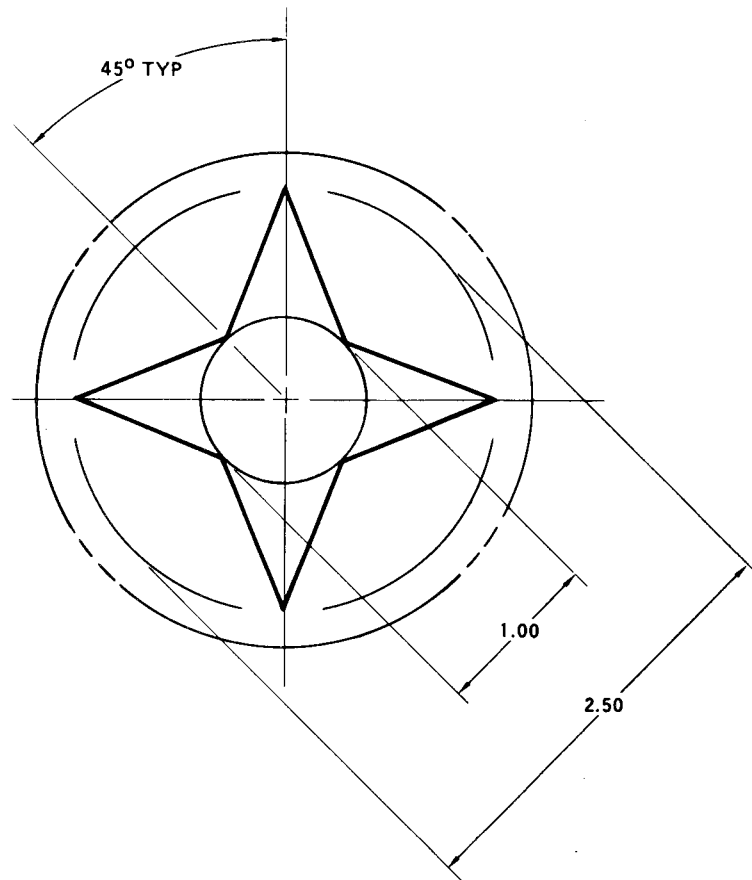
Part Number:	209-072-650-1 STENCIL
Fabricate from:	NSN 931 0-00-265-6797
Material:	Stencil Board, Oiled, Federal Specification UU-S-625 Type 2, Grade 1, 0.018 inch thick

Figure D-233



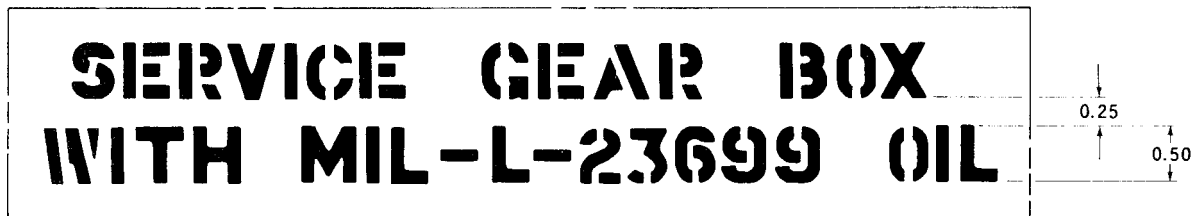
Part Number:	209-072 -651-1 STENCIL
Fabricate from:	NSN 9310-00-265-6797
Material:	Stencil Board, Oiled, Federal Specification UU-S-625 Type 2, Grade 1, 0.018 inch thick

Figure D-234



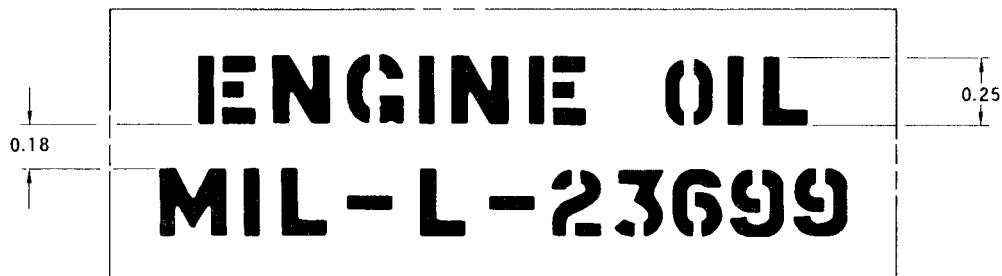
Part Number:	209-072-652-1 STENCIL
Fabricate from:	NSN 9310-00-265-6797
Material:	Stencil Board, Oiled, Federal Specification UU-S-625 Type 2, Grade 1, 0.018 inch thick

Figure D-235



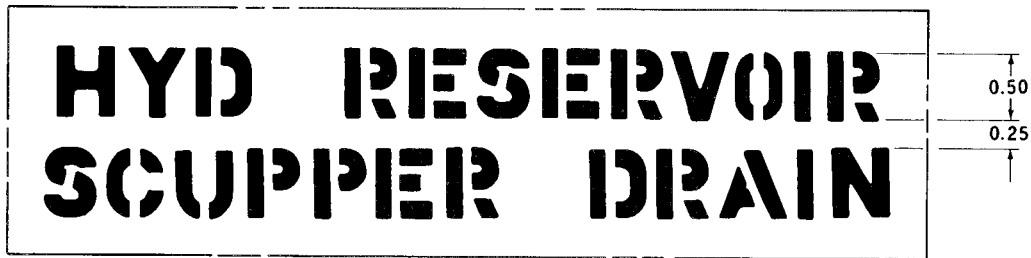
Part Number:	209-072-655-1 STENCIL
Fabricate from:	NSN 9310-00-265-6797
Material:	Stencil Board, Oiled, Federal Specification UU-S-625 Type 2, Grade 1, 0.018 inch thick

Figure D-236



Part Number:	209-072-656-1 STENCIL
Fabricate from:	NSN 9310-00-265-6797
Material:	Stencil Board, Oiled, Federal Specification UU-S-625 Type 2, Grade 1, 0.018 inch thick

Figure D-237



Part Number: 209-072-657-1 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-238



Part Number: 209-072-658-1 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-239



Part Number:	209-072-660-1 STENCIL
Fabricate from:	NSN 9310-00-265-6797
Material:	Stencil Board, Oiled, Federal Specification UU-S-625 Type 2, Grade 1, 0.018 inch thick

Figure D-240



Part Number:	209-072-664-1 STENCIL
Fabricate from:	NSN 9310-00-265-6797
Material:	Stencil Board, Oiled, Federal Specification UU-S-625 Type 2, Grade 1, 0.018 inch thick

Figure D-241



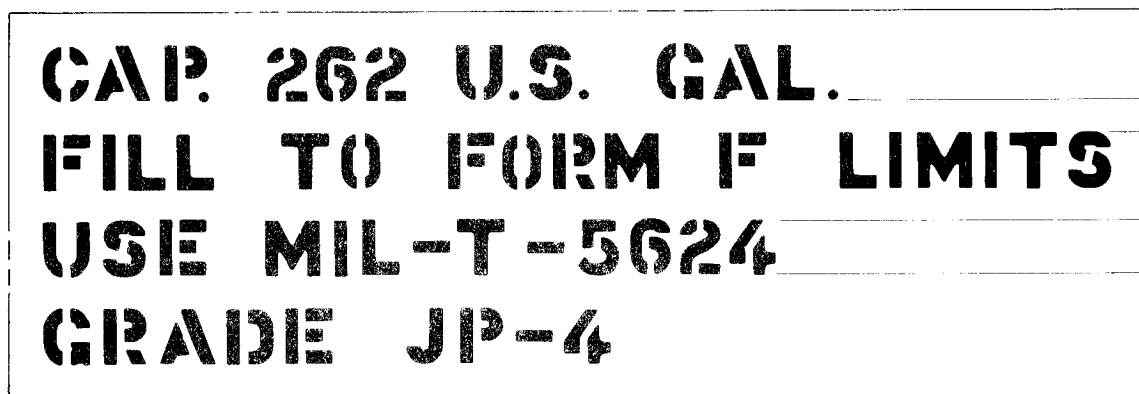
Part Number: 209-072-665-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-242



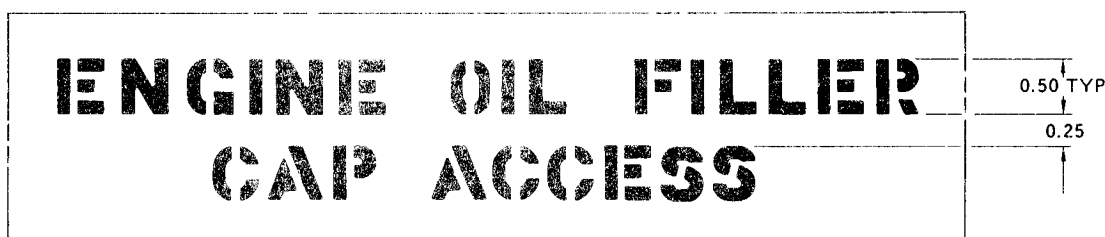
Part Number: 209-072-666-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-243



Part Number: 209-072-671-1 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-244



Part Number: 209-072-675-1 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-245



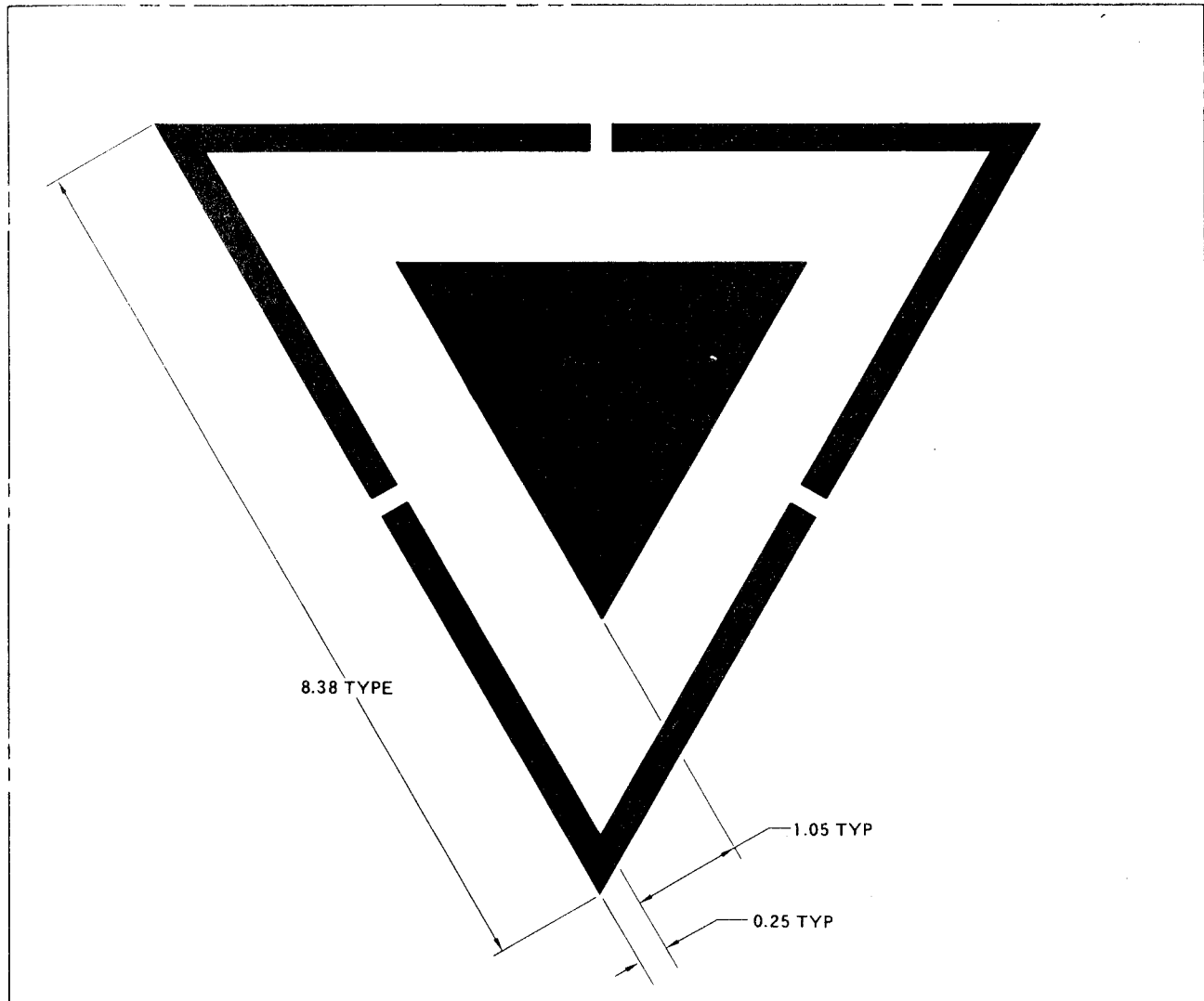
Part Number: 209-072-680-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-246



Part Number: 209-072-681-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-247



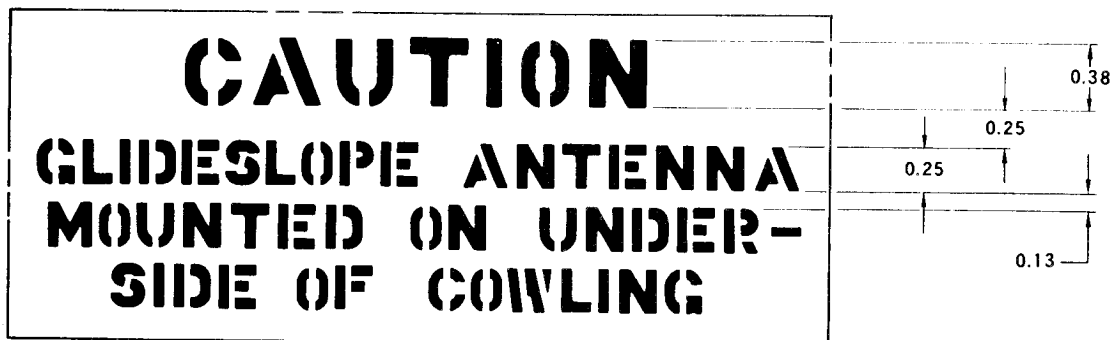
Part Number:	209-072-682-1 STENCIL
Fabricate from:	NSN 9310-00-265-6797
Material:	Stencil Board, Oiled, Federal Specification UU-S-625 Type 2, Grade 1, 0.018 inch thick

Figure D-248



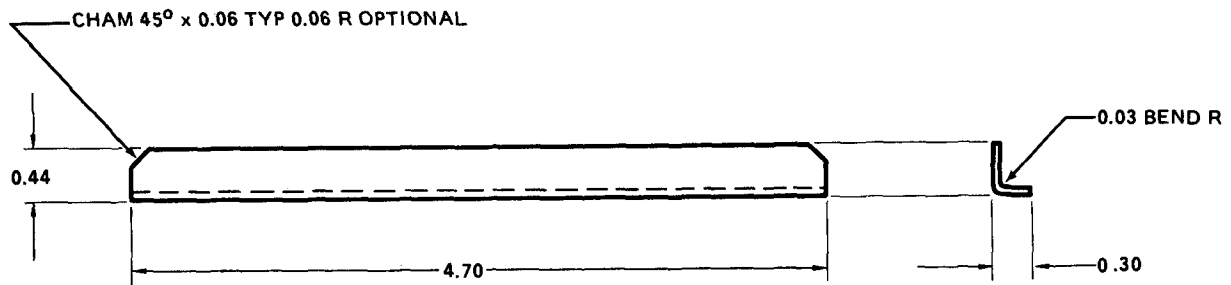
Part Number: 209-072-682-3 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-249



Part Number: 209-072-693-101 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

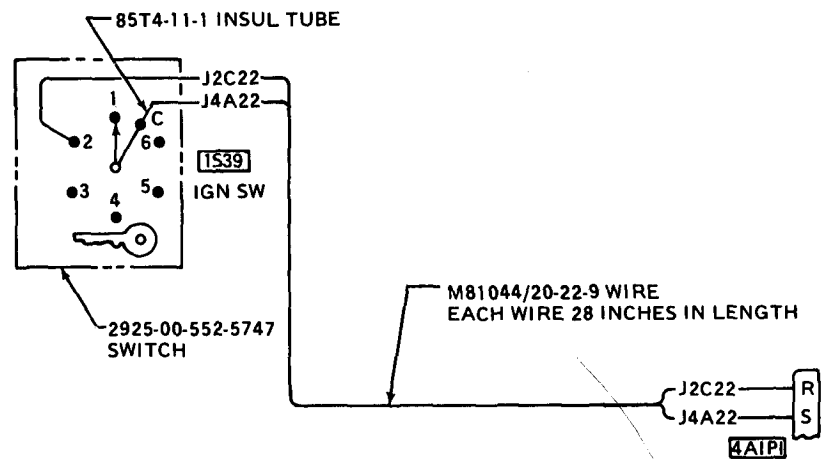
Figure D-250



Part Number: 209-074-028-1 STIFFENER
Fabricate from: NSN 9535-00-232-7613
Material: 5052 Aluminum Alloy
 Federal Specification QQ-A-250/8 H34
 0.040 inch thick, 1.0 inch wide, 5.2 inch long



Figure D-251



Part Number: 209-075-064-27 CABLE ASSEMBLY
Fabricate from: NSN 6145-00-814-1160
Material: M81044/20-22-9 Wire
 SN 60 Solder
 2925-00-552-5747 Switch
 85T4-11-1 insul tube

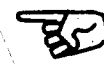
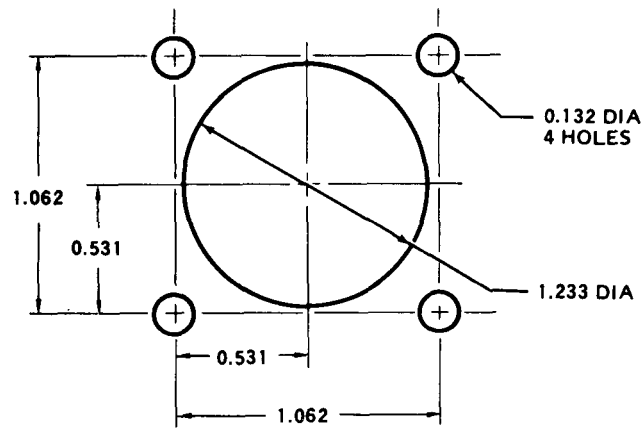
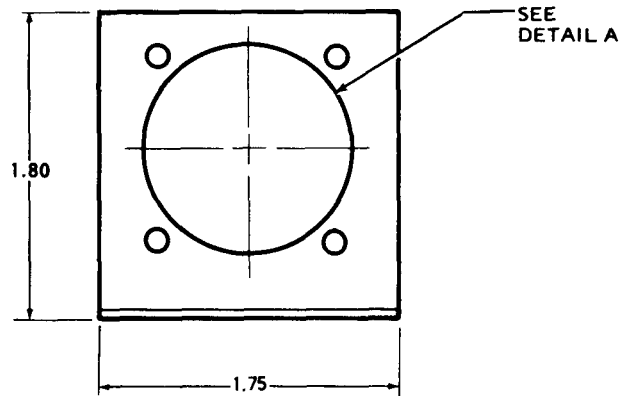
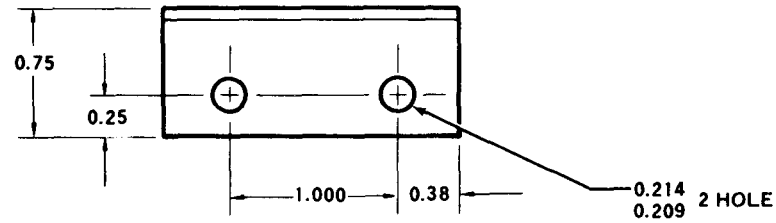


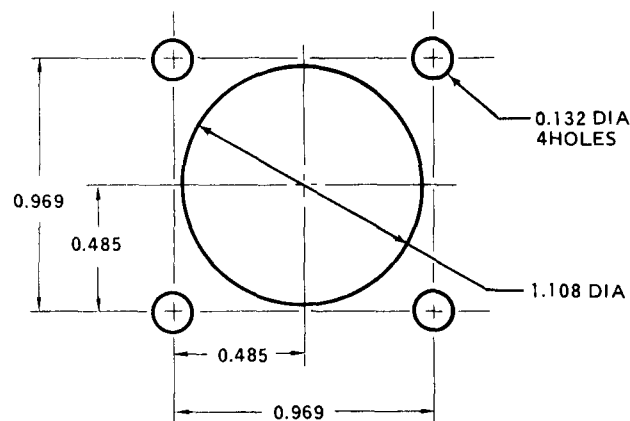
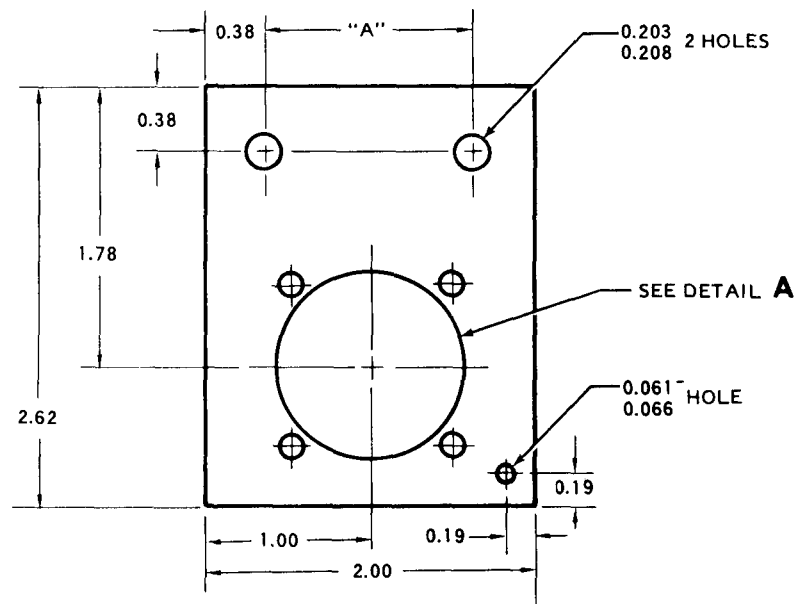
Figure D-252



DETAIL A

Part Number: 209-075-376-7 CONNECTOR BRACKET
Fabricate from: NSN 9535-00-167-2280
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.040 inch thick, 2.3 inch wide, 3.2 inch long

Figure D-253



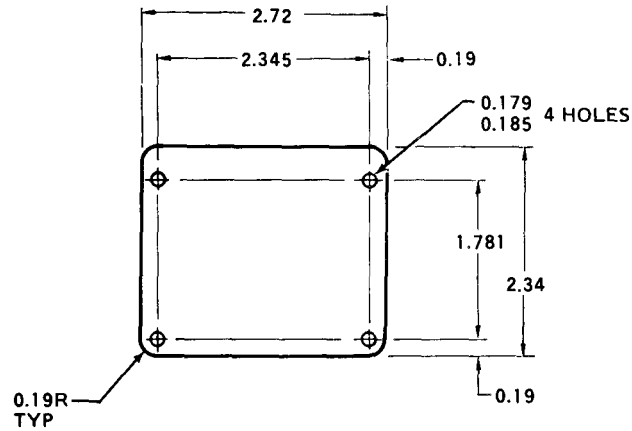
DETAIL A



Part Number:
Fabricate from:
Material:

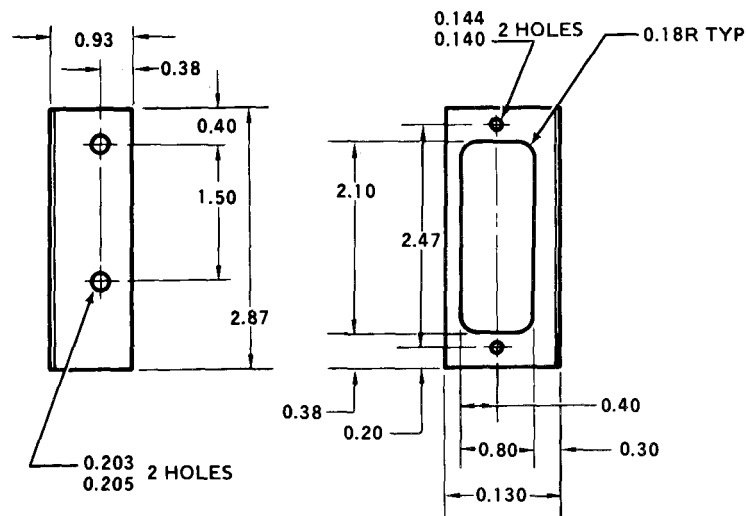
209-075-581-7 CONNECTOR BRACKET
NSN 9535-00-232-0378
2024 Aluminum Alloy
Federal Specification QQ-A-250/5 T3
0.063 inch thick, 2.5 inch wide, 3.1 inch long

Figure D-254



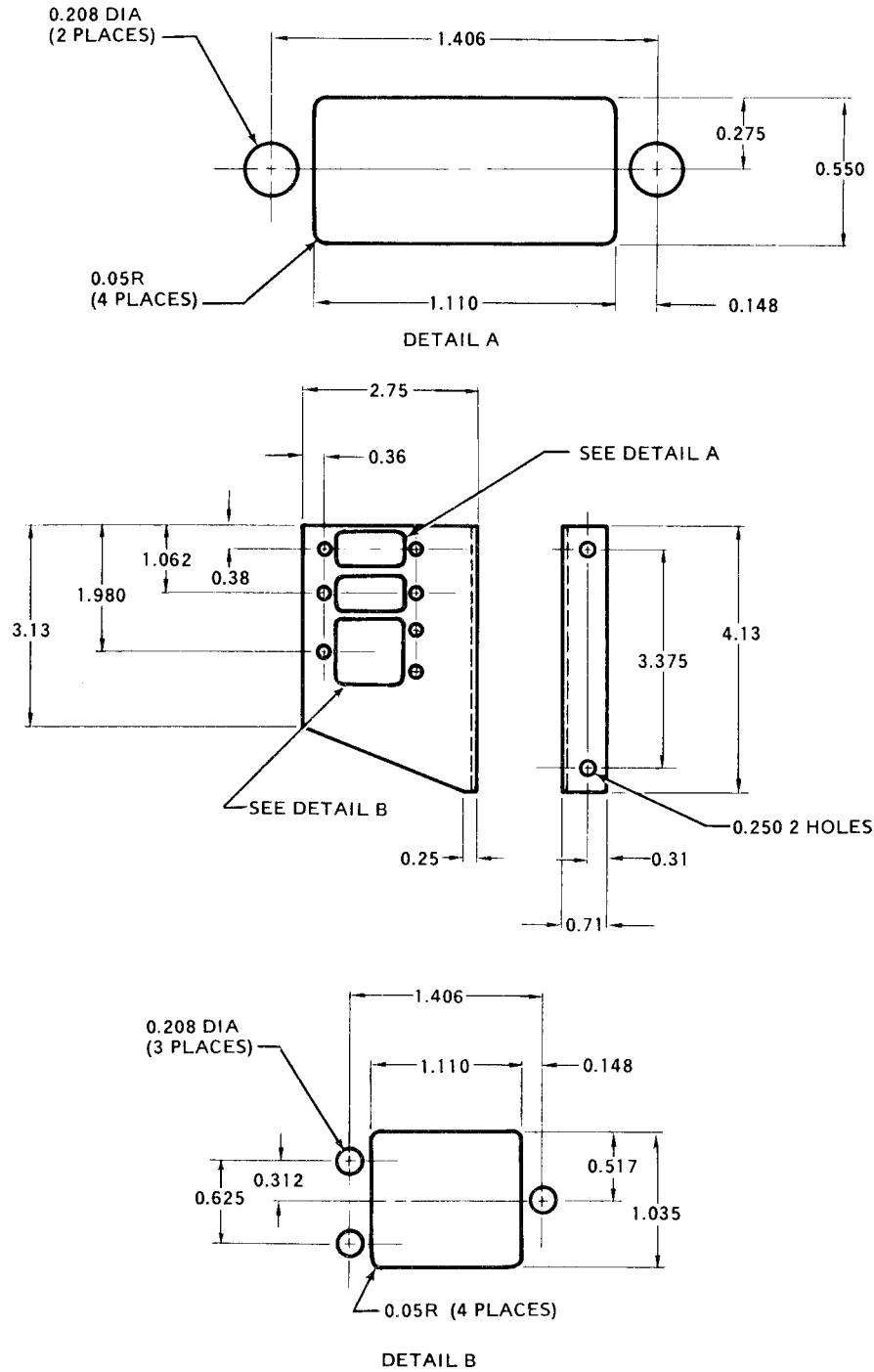
Part Number: 209-075-676-5 PLATE
Fabricate from: NSN 9535-00-167-2277
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.020 inch thick, 2.8 inch wide, 3.2 inch long

Figure D-255



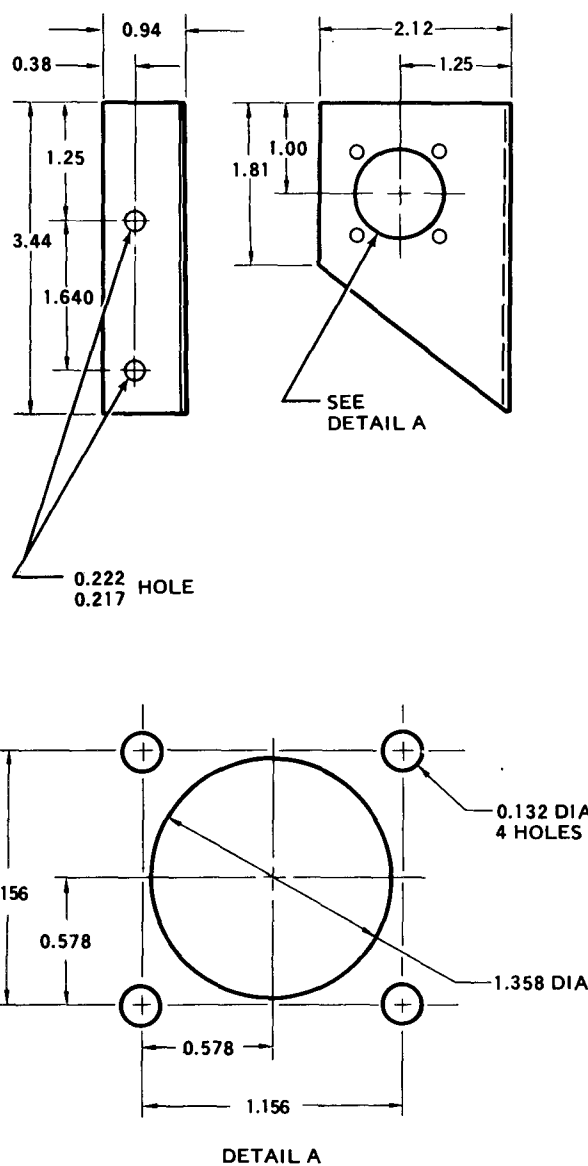
Part Number: 209-075-749-115 BRACKET
Fabricate from: NSN 9535-00-167-2280
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T0
 0.040 inch thick, 2.3 inch wide, 3.8 inch long

Figure D-256



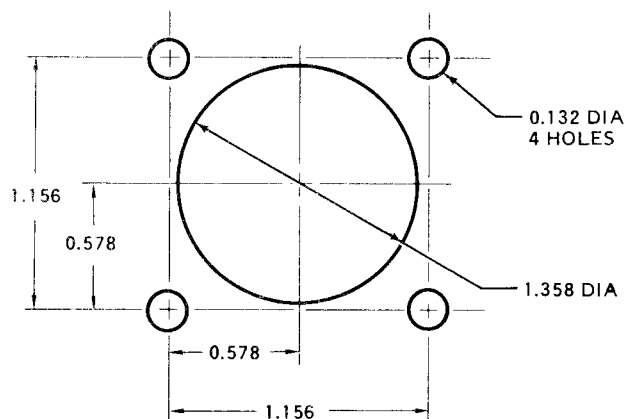
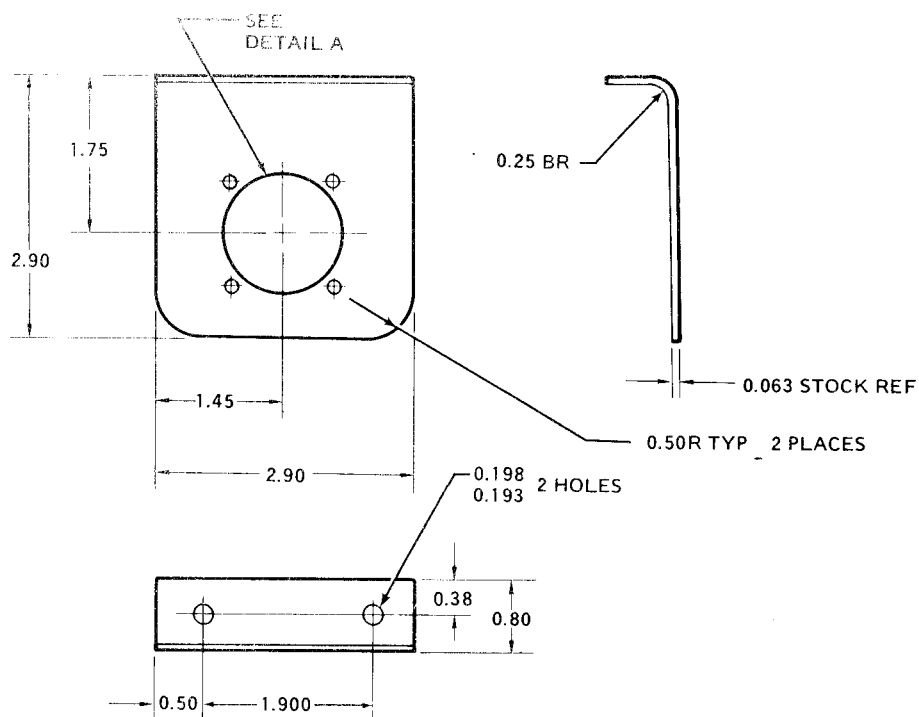
Part Number: 209-075-749-35 BRACKET
Fabricate from: NSN 9535-00-232-6864
Material: Aluminum Alloy
 Federal Specification QQ-A-250/8 T0
 0.063 inch thick, 4.0 inch wide, 4.6 inch long

Figure D-257



Part Number: 209-075-749-37 BRACKET
Fabricate from: NSN 9535-00-232-0378
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T0
 0.063 inch thick, 3.4 inch wide, 3.9 inch long

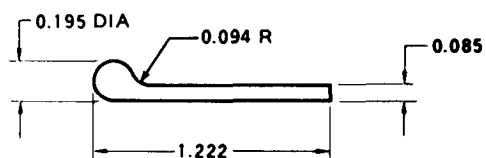
Figure D-258



DETAIL A

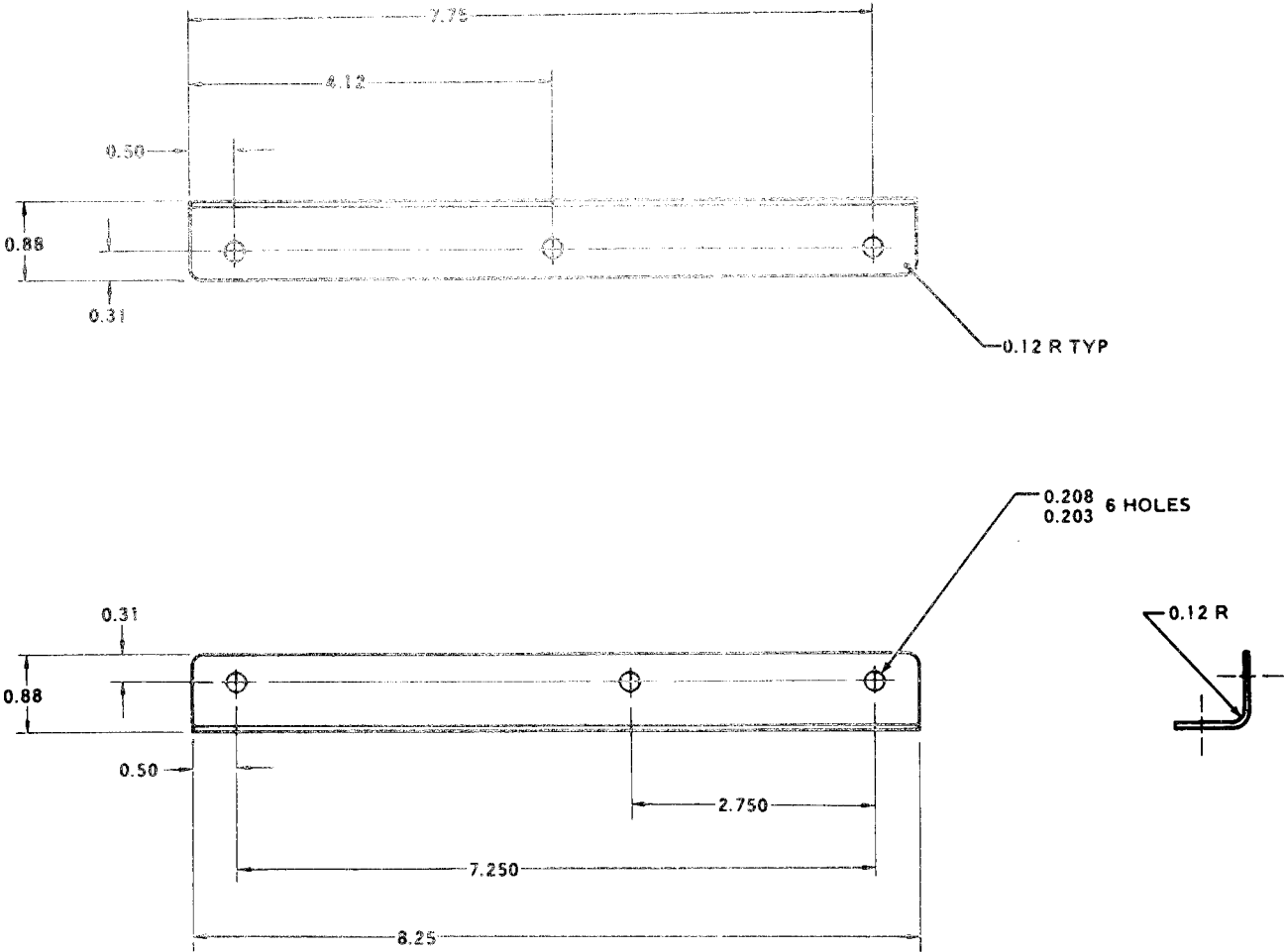
Part Number: 209-075-749-53 BRACKET
 Fabricate from: NSN 9535-00-232-0378
 Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.063 inch thick, 3.4 inch wide, 4.2 inch long

Figure D-259



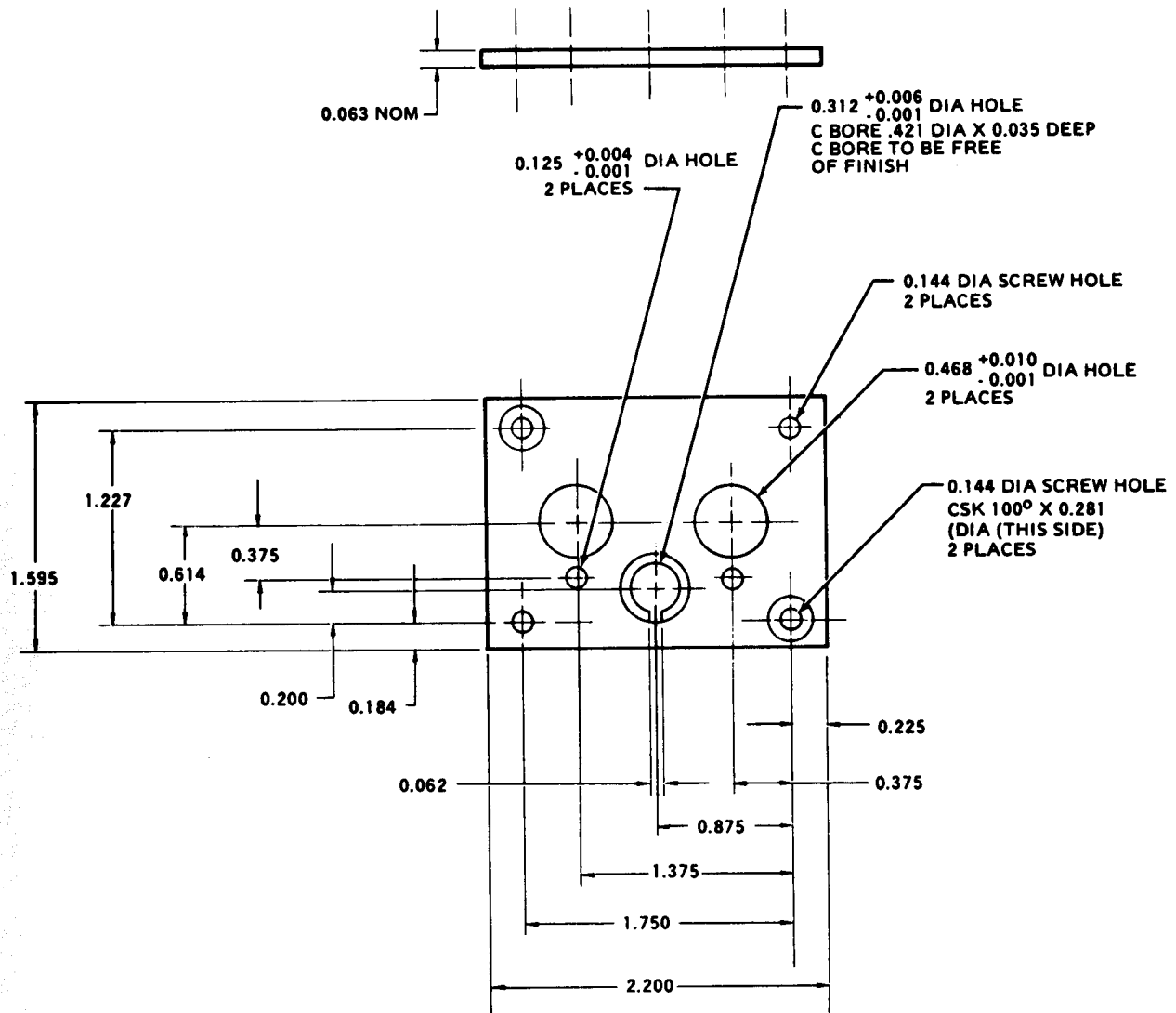
Part Number:	209-077-202-17 RETAINER
Fabricate from:	NSN 9540-00-119-2171
Material:	2024 Aluminum Alloy
	Federal Specification QQ-A-200/3 T4

Figure D-260



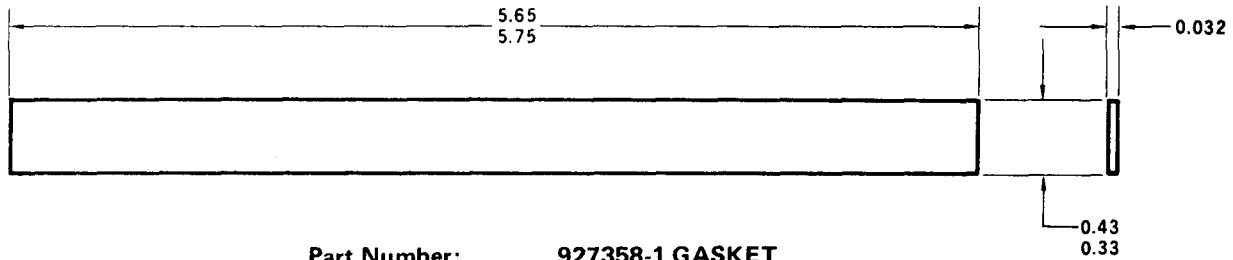
Part Number: 209-175-356-101 CABLE HANGER BRACKET
Fabricate from: NSN 9535-00-232-0378
Material: 2024 Aluminum Alloy
Federal Specification QQ-A-250/5 T3
0.063 inch thick, 8.8 inch thick, 2.0 inch long

Figure D-261



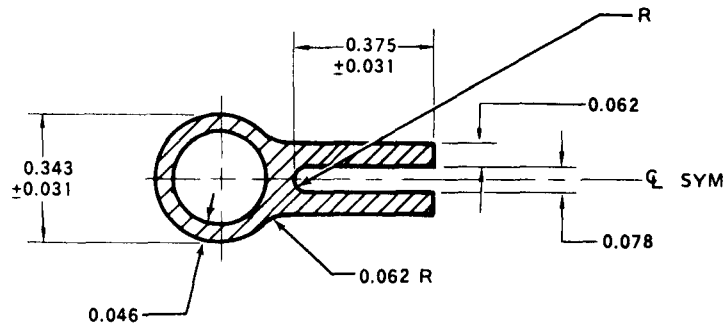
Part Number: 81-1882-1 PLATE
Fabricate from: NSN 9535-00-232-0378
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.063 inch thick, 1.80 inch wide, 2.5 inch long

Figure D-262



Part Number: 927358-1 GASKET
 Fabricate from: NSN 9320-00-404-6054
 Material: AMS3302 Silicone Rubber Strip

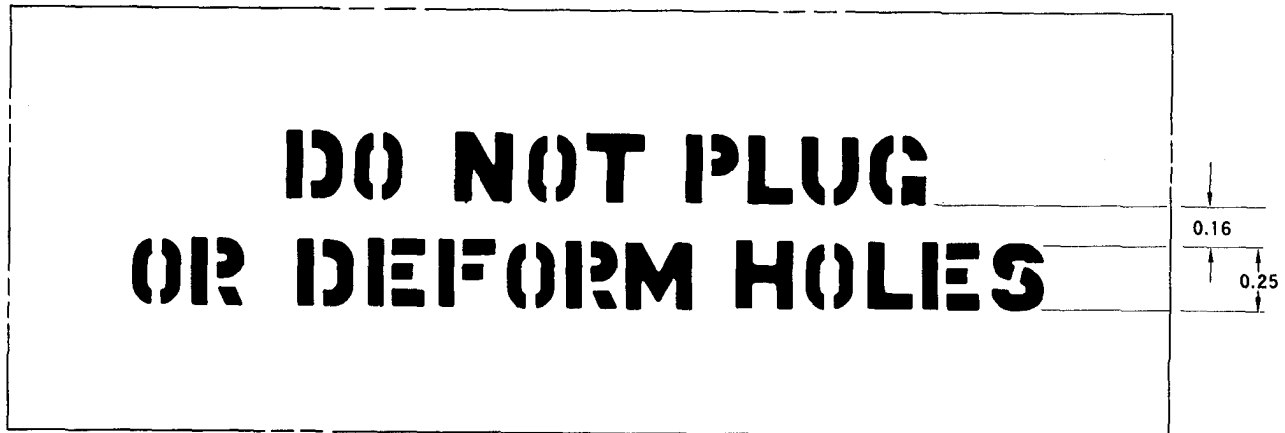
Figure D-263



PART NUMBER	NOMENCLATURE	LENGTH	MAKE FROM NSN
209-023-001-51	BUMPER	19.5	
209-023-001-53	BUMPER	8.7	
209-023-001-55	BUMPER	17.0	
209-023-001-57	BUMPER	8.5	
209-023-001-59	BUMPER	14.1	
209-023-001-75	BUMPER	5.2	

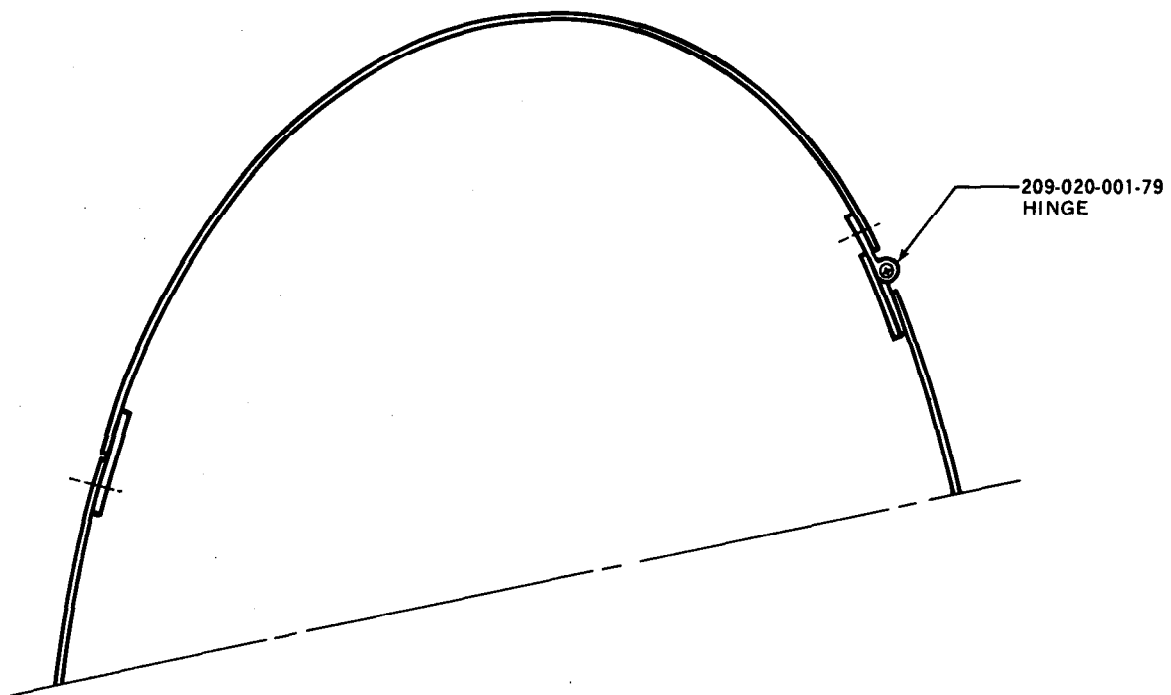
Part Number: See Chart
 Fabricate from: NSN 5330-00-754-7443
 Material: ZZ-R-765a Silicone Rubber
 Class I, Grade 60

Figure D-264



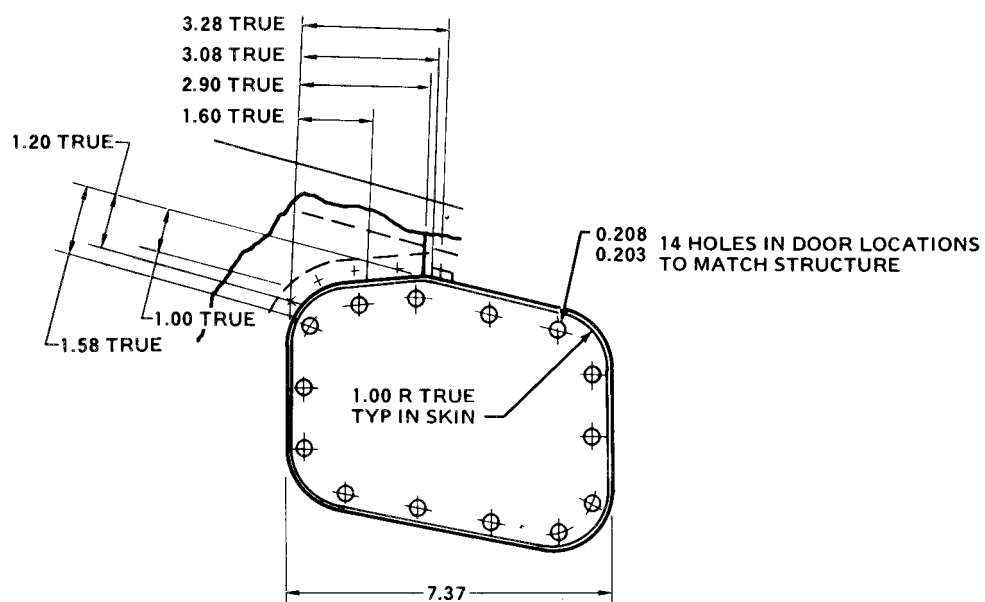
Part Number:	204-070-806-1 STENCIL
Fabricate from:	NSN 9310-00-265-6797
Material:	Stencil Board, Oiled, Federal Specification UU-S-625 Type 2, Grade 1, 0.018 inch thick

Figure D-265



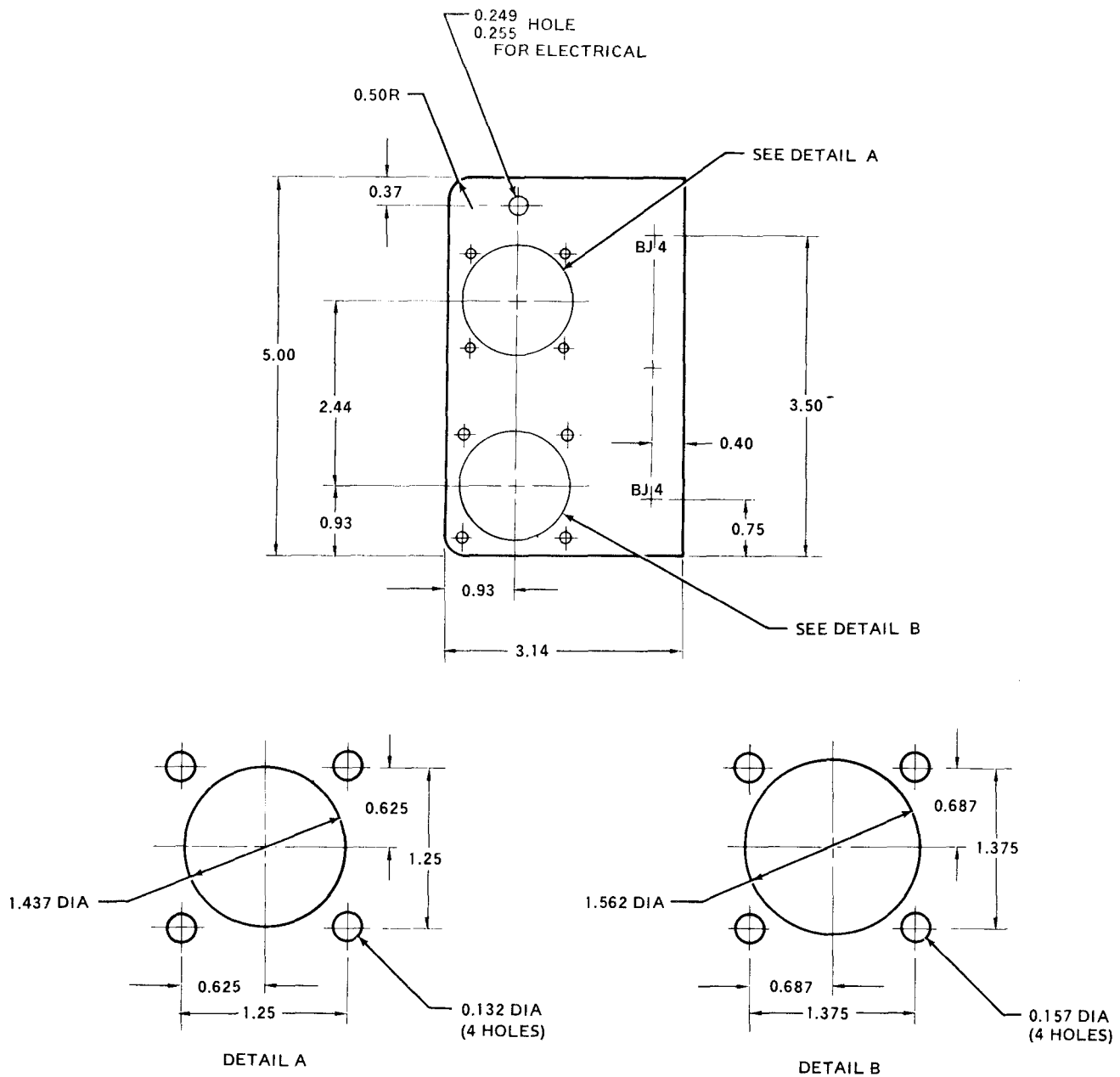
Part Number:	209-020-001-67 COVER ASSY (SHOWN)
	209-020-001-68 COVER ASSY (OPPOSITE)
Fabricate from:	NSN 9535-00-086-9729
Material:	2024 Aluminum Alloy
	Federal Specification QQ-A-250/5 T3
	0.032 inch thick, 15.0 inch wide, 16.0 inch long

Figure D-266



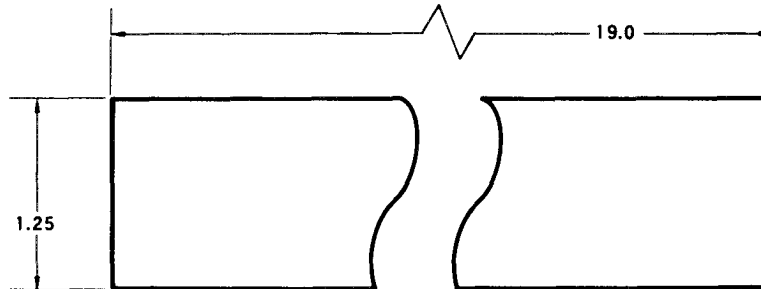
Part Number: 209-023-001-71 DOOR (SHOWN)
 209-023-001-72 DOOR (OPPOSITE)
Fabricate from: NSN 9535-00-086-9465
Material: 7075 Aluminum Alloy
 Federal Specification QQ-A-250/13 T6
 0.063 inch thick, 5.9 inch wide, 8.1 inch long

Figure D-267



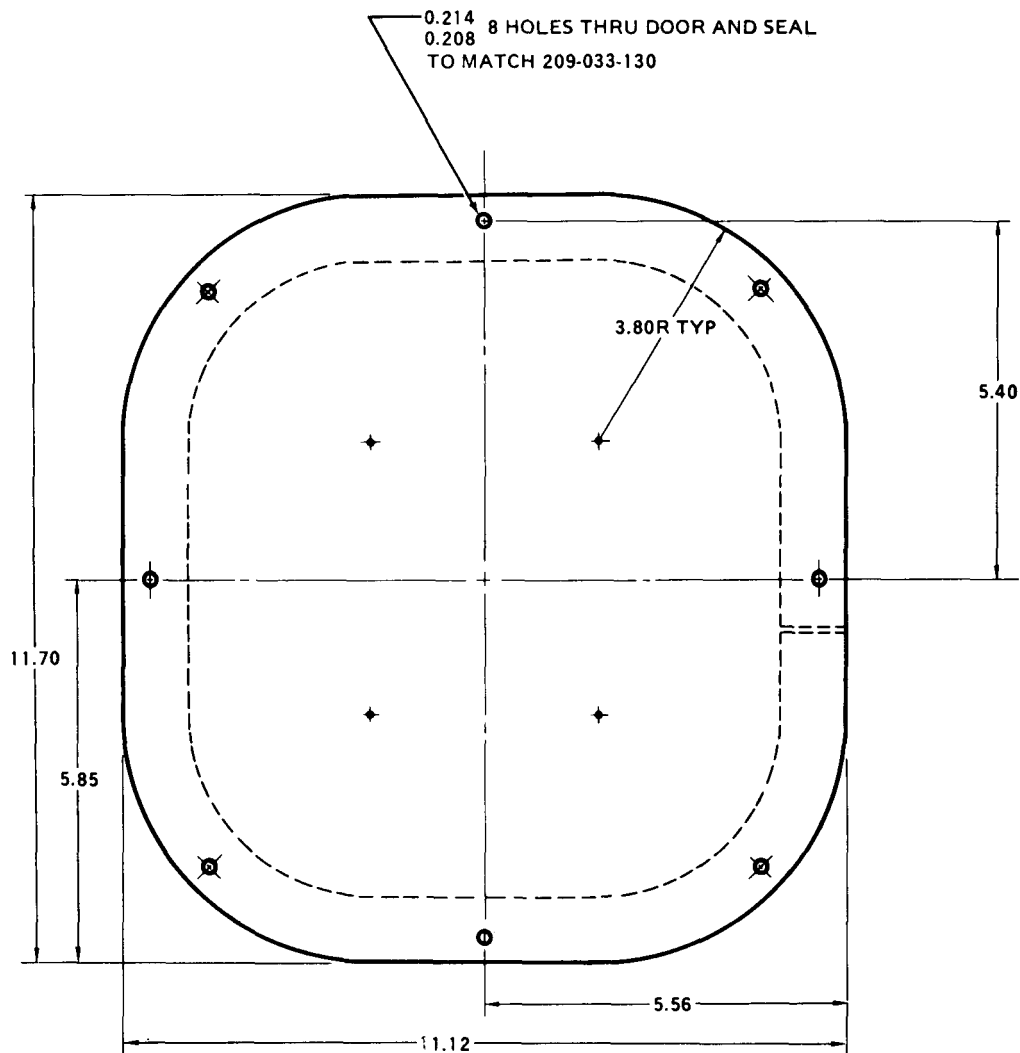
Part Number: 209-030-102-297 BRACKET
 Fabricate from: NSN 9535-00-232-0569
 Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T3
 0.050 inch thick, 3.7 inch wide, 5.5 inch long

Figure D-268



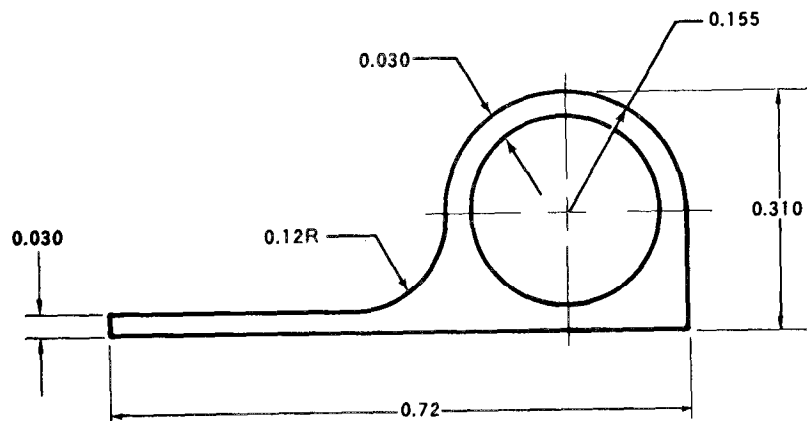

Part Number: 209-033-127-21 SEAL
Fabricate from: NSN 9320-00-241-9751
Material: Syn Rubber
 Federal Specification MIL-R-6855
 0.032 inch thick, 18.0 inch wide, 19.4 inch long

Figure D-269



Part Number:	209-033-157-115 DOOR
Fabricate from:	NSN 9535-00-088-6599
Material:	7075 Aluminum Alloy
	Federal Specification QQ-A-250/13 T6
	0.063 inch thick, 11.7 inch wide, 12.2 inch long

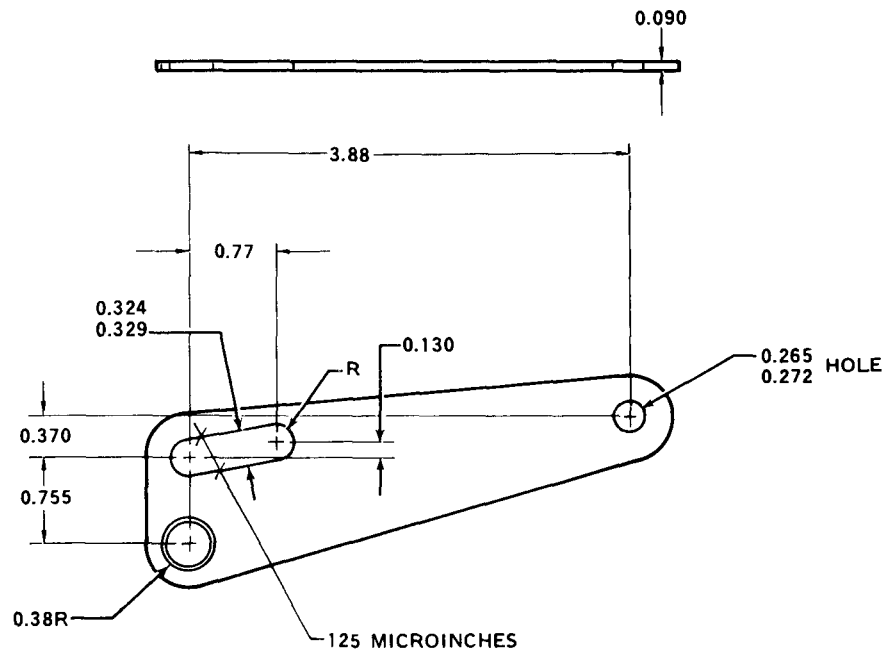
Figure D-270



PART NUMBER	NOMENCLATURE	LENGTH	NSN
209-033-502-67	SEAL	156.0	9390-01-058-8959
209-033-503-71	SEAL	150.0	9390-01-058-8959

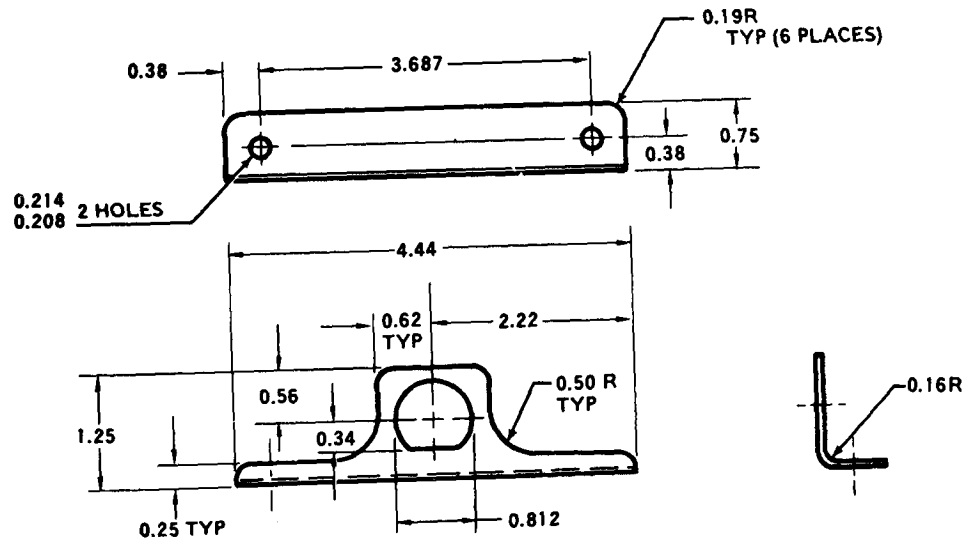
Material: Silicone Rubber Extrusion

Figure D-271



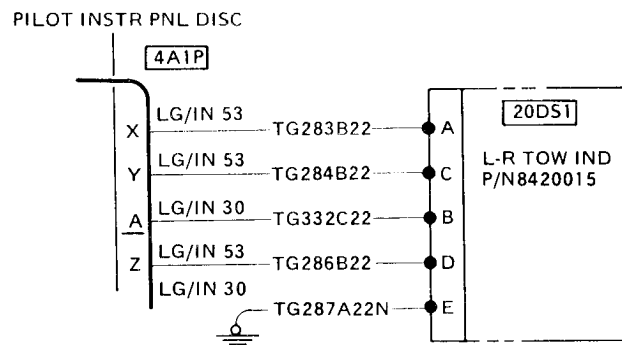
 **Part Number:** 204-070-855-7 PLATE
Fabricate from: NSN 9535-00-232-0405
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-362 T3
 0.090 inch thick, 2.4 inch wide, 5.1 inch long

Figure D-272



Part Number: 209-075-058-111 BRACKET
Fabricate from: NSN 9535-00-167-2280
Material: 2024 Aluminum Alloy T3
 Federal Specification QQ-A-250/5
 0.040 inch thick, 2.50 inch wide, 5.00 inch long

Figure D-273

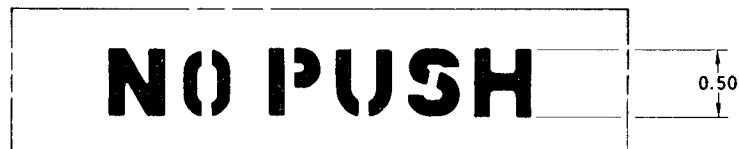


Part Number: 209-075-067-23 CABLE ASSY
Fabricate from: NSN 6145-00-814-1160
Material: M81044/20-22-9 Wire
 Federal Specification MIL-W-81044

SN60 Solder
 Federal Specification QQ-S-571

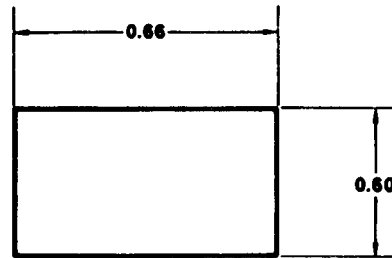
Braid Nylon, Size 50
 Federal Specification AMS 3817

Figure D-274



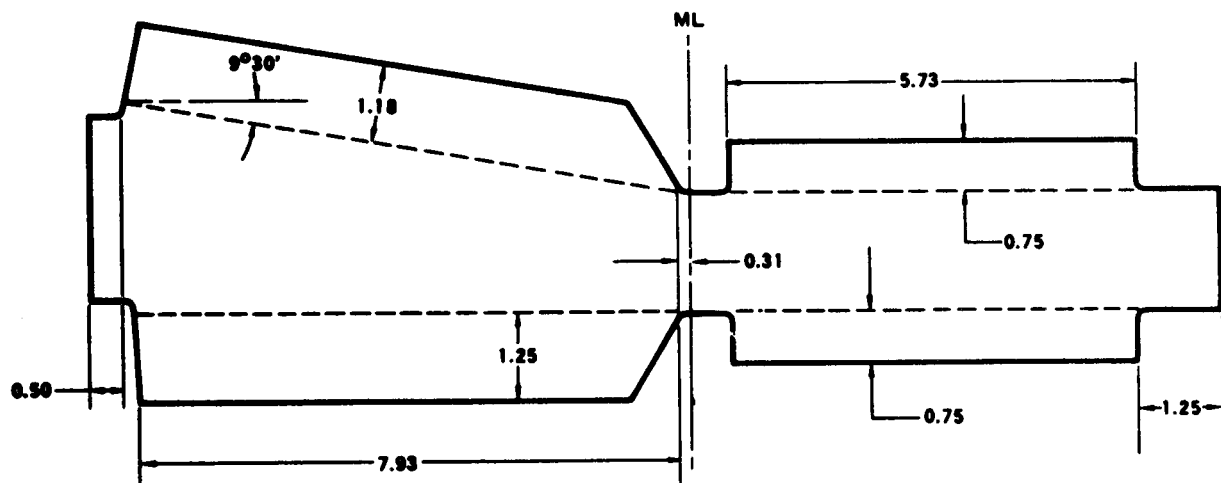
Part Number: 204-070-798-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Oiled,
 Federal Specification UU-S-625
 Type 2, Grade 1, 0.018 inch thick

Figure D-275



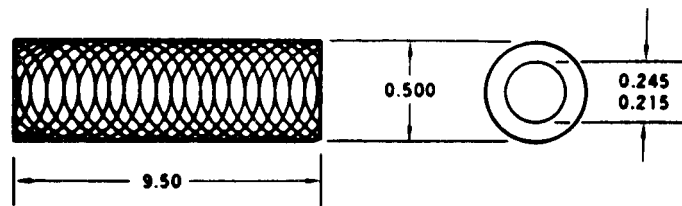
Part Number: 209-033-189-17 SHIM
Fabricate from: NSN 9535-00-086-9729
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250 T3
 0.032 inch thick, 1.0 inch wide, 1.0 inch long

Figure D-276



Part Number: 209-033-189-19 SUPPORT
Fabricate from: NSN 9535-00-232-0546
Material: 2024 Aluminum Alloy
 Federal Specification QQ-A-250/5 T42
 0.032 inch thick, 5.0 inch wide, 17.1 inch long

Figure D-277

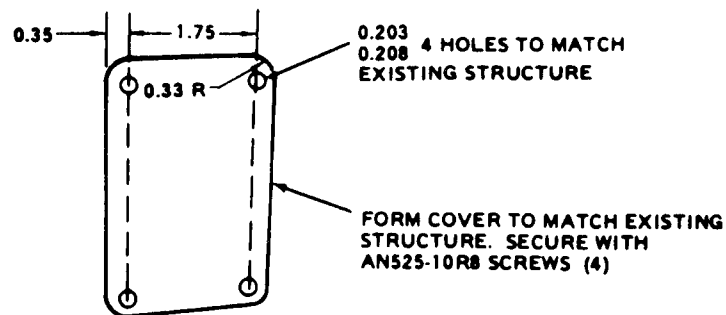


NOTES:

1. All dimensions are in inches unless otherwise noted.
2. Burst pressure — 150 PSI at 70°F (21°C)

Part Number: S9380-048094, Tube
NSN 4720-01-201-8499, P/N 2201859-15
Fabricate from: Vinyl Tubing, Black, Nylon Braid Reinforced

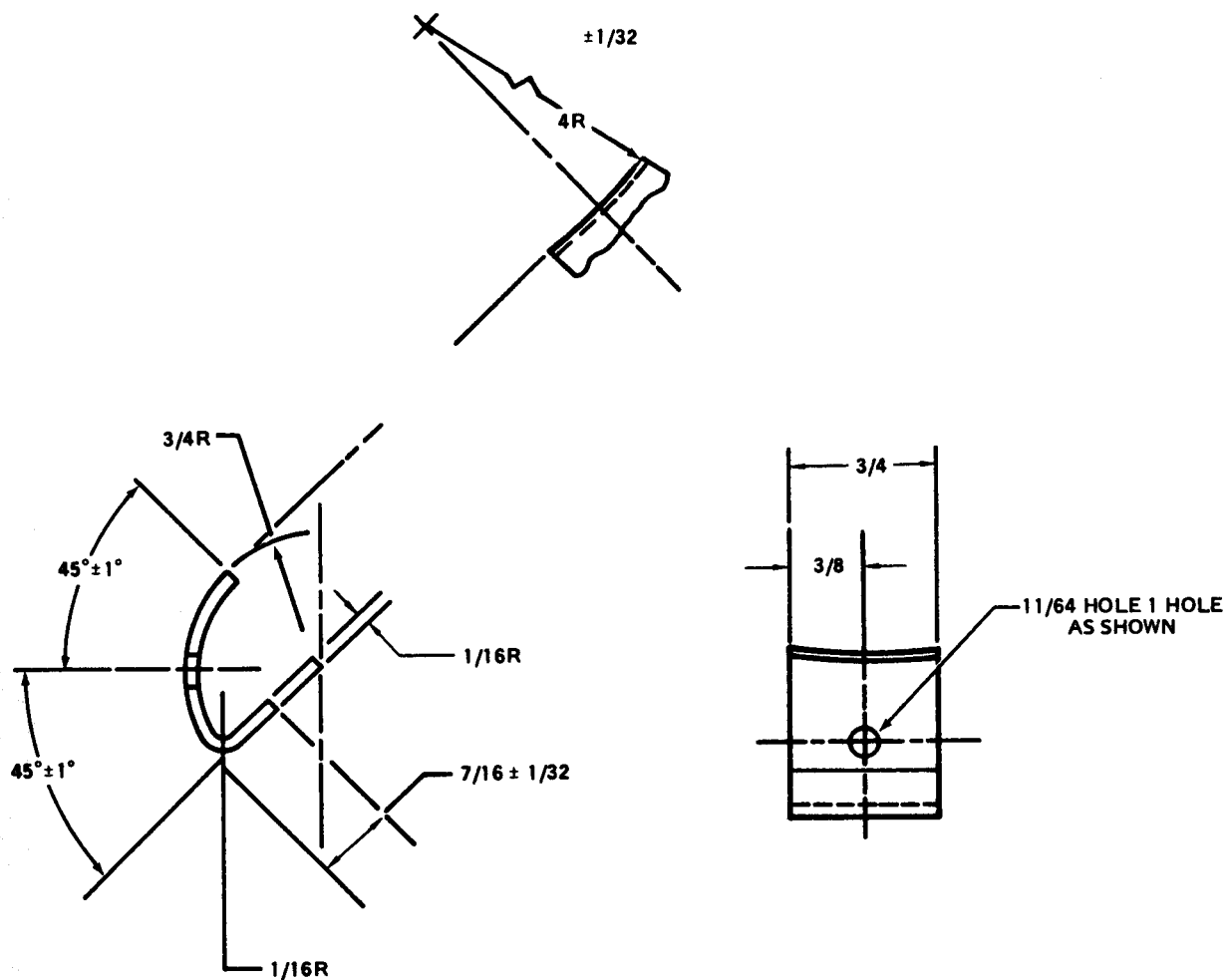
Figure D-278.



NOTE All dimensions are in inches unless otherwise noted

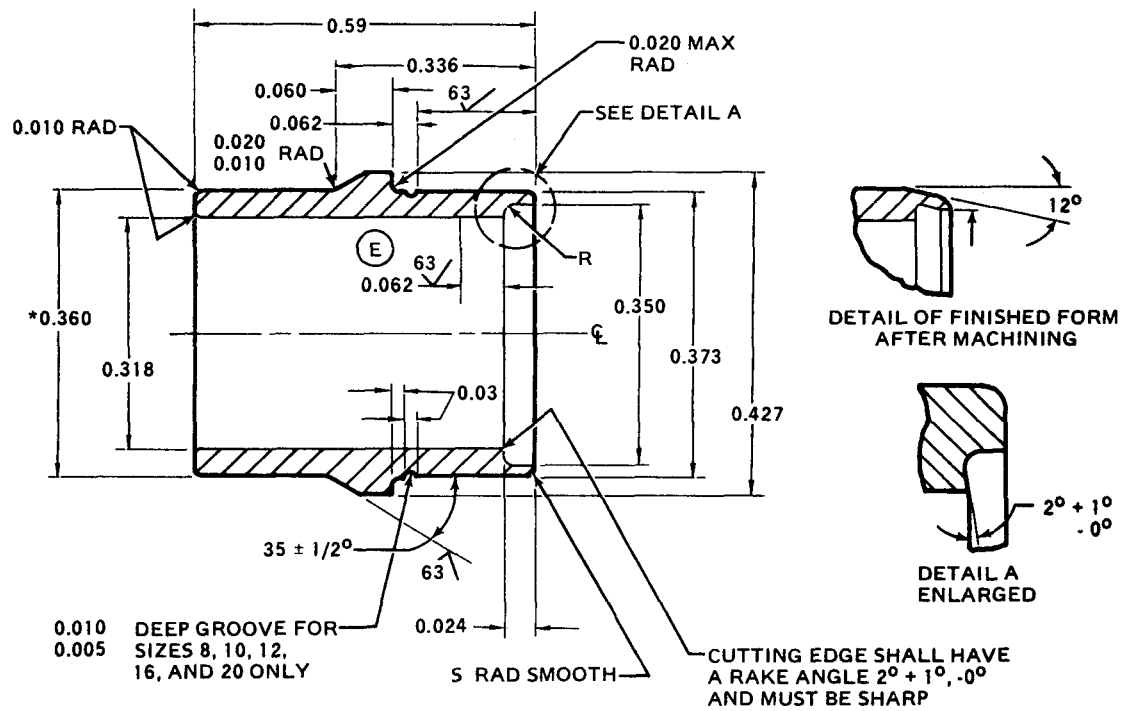
Part Number: 209-030-133-65 COVER
NSN 9535-00-232-7535
Material: 7075 T6 Aluminum Alloy, Federal Specification
 QQ-A-250 0.032 inch thick, 3.1 inch wide, 5.7 inch long

Figure D-279



Part Number: 9524491 CLIP, VALVE
Fabricate from: NSN 9535-00-554-1417
Material: 2024 AL ALY Sheet, Federal Specification QQ-A-250/5, 0.063 Inch Thick

Figure D-280.

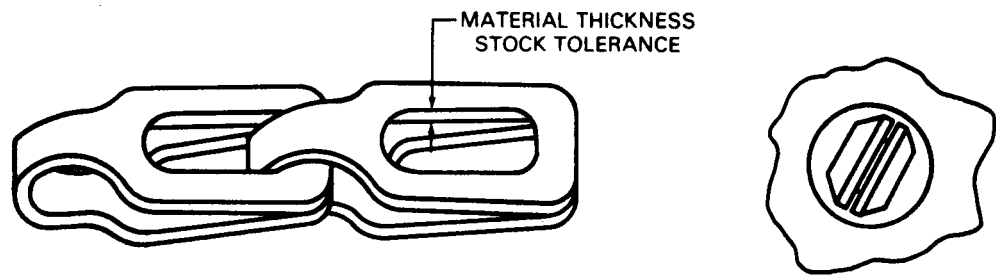


*CIRCULAR SURFACES OF DIAMETER SHALL BE CONCENTRIC WITHIN 0.005 INCH TOTAL INDICATOR READING AND TRUE WITH CENTERLINE.

THE INCREASE OR DECREASE OF DIMENSION DUE TO WARPAGE CAUSED BY HEAT TREATMENT SHALL NOT EXCEED THE SPECIFIED DIMENSIONS, INCLUDING TOLERANCES BY MORE THAN 0.004 INCH.

Part Number: MS21922-5 SLEEVE, COUPLING, FLARELESS
Fabricate from: NSN 4730-00-289-8620
Material: 2024-T3 Al Aly,
 Federal Specification QQ-A-250/5

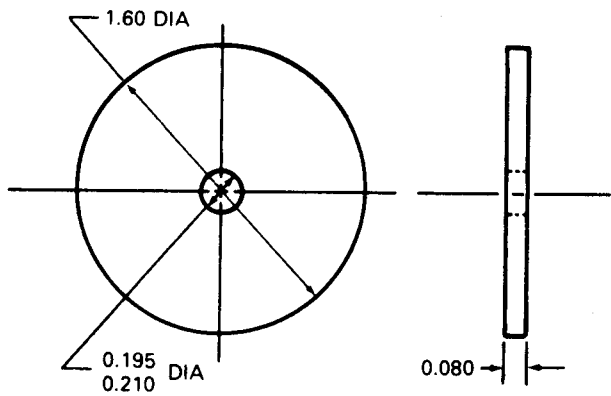
Figure D-281.



CHAIN, WELDLESS

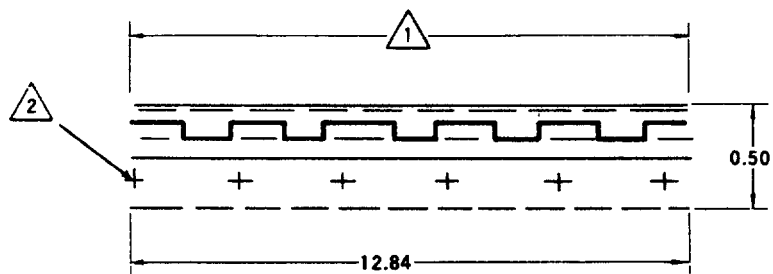
PART NO.	NSN	LENGTH IN.
NAS1455A00-4	4010-00-702-7475	4

Figure D-282.



Part Number: 204-060-224-9 PLATE
Fabricate from: NSN 9535-00-232-0398
Material: 2024 AL ALY
Federal Specification
QQ-A-250/15
0.080 Inch Thick,
2.1 Inch Wide,
2.1 Inch Long

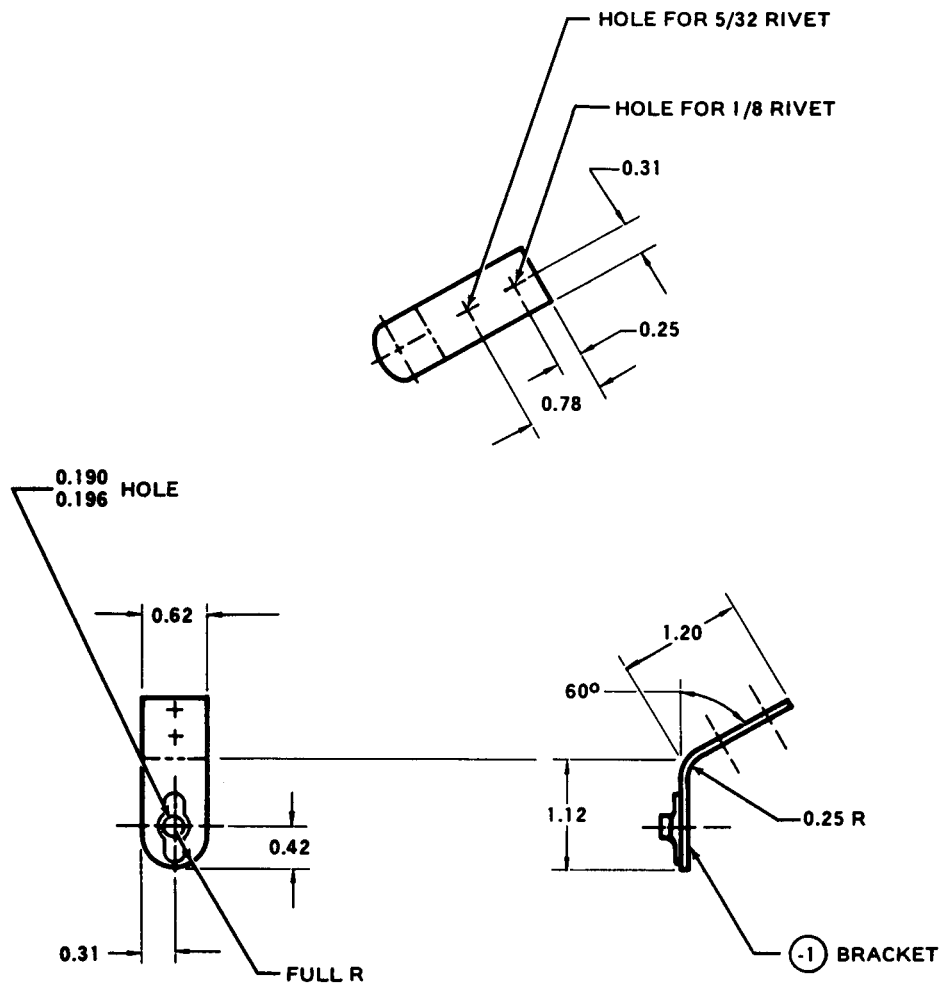
Figure D-283.



- 1** TRIM TO MATCH STRUCTURE.
- 2** LOCATION TO BE DETERMINED BY EXISTING STRUCTURE.

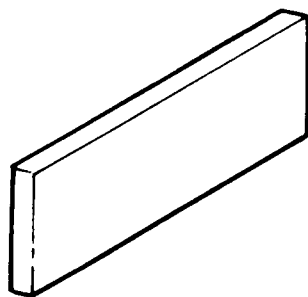
Part Number: 209-020-001-81 HINGE HALF
Fabricate from: NSN 9535-00-232-0569
Material: Make from MS20257HC4 Hinge Stock

Figure D-284.

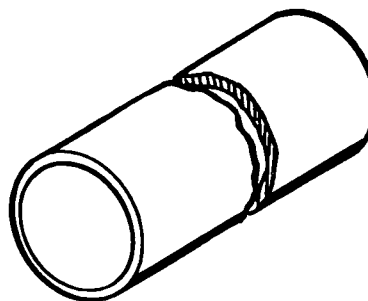


Part Number: 209-020-119-1 BRACKET
Fabricate from: NSN 9535-00-167-2279
Material: 2024-T3 Al Aly, Federal
 Specification QQ-A-250/5
 0.063 Inch Thick, 1.1 Inch Wide,
 2.8 Inch Long

Figure D-285.



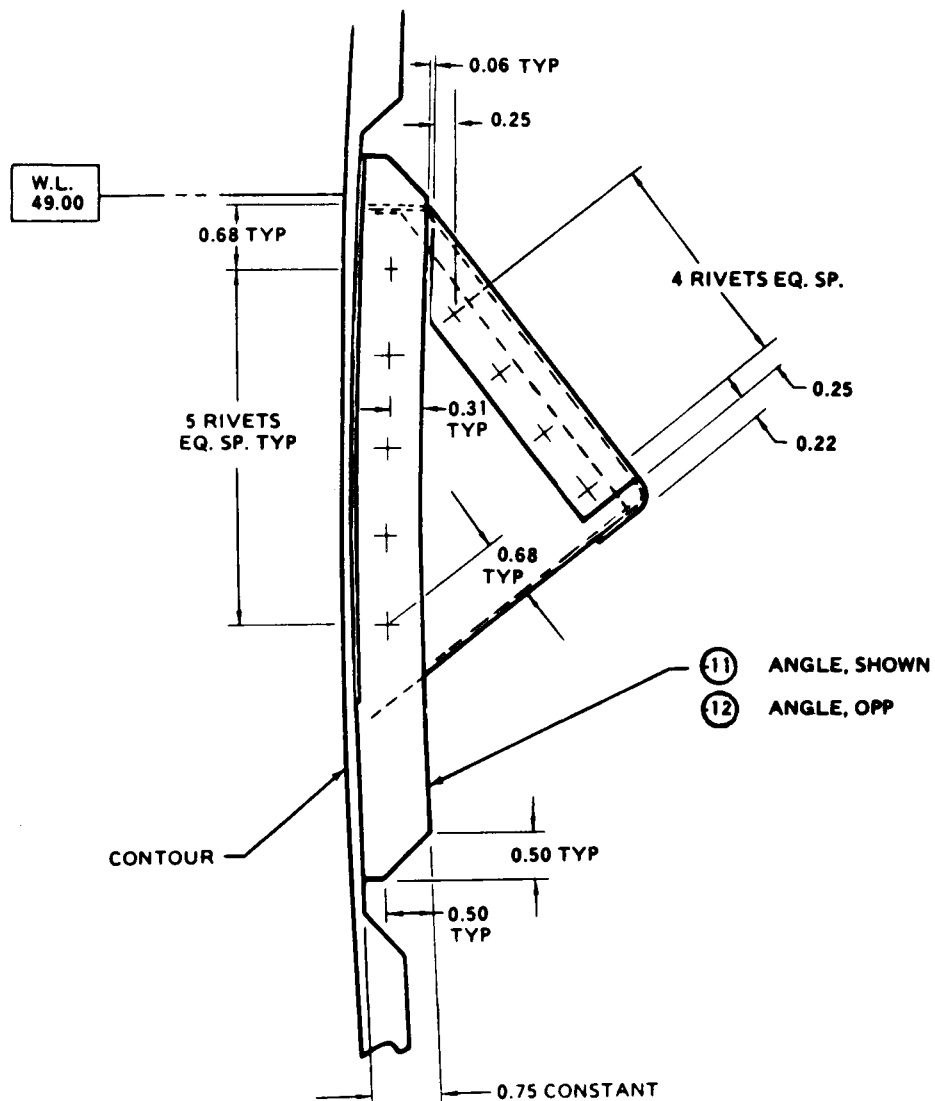
STYLE 1



STYLE 2

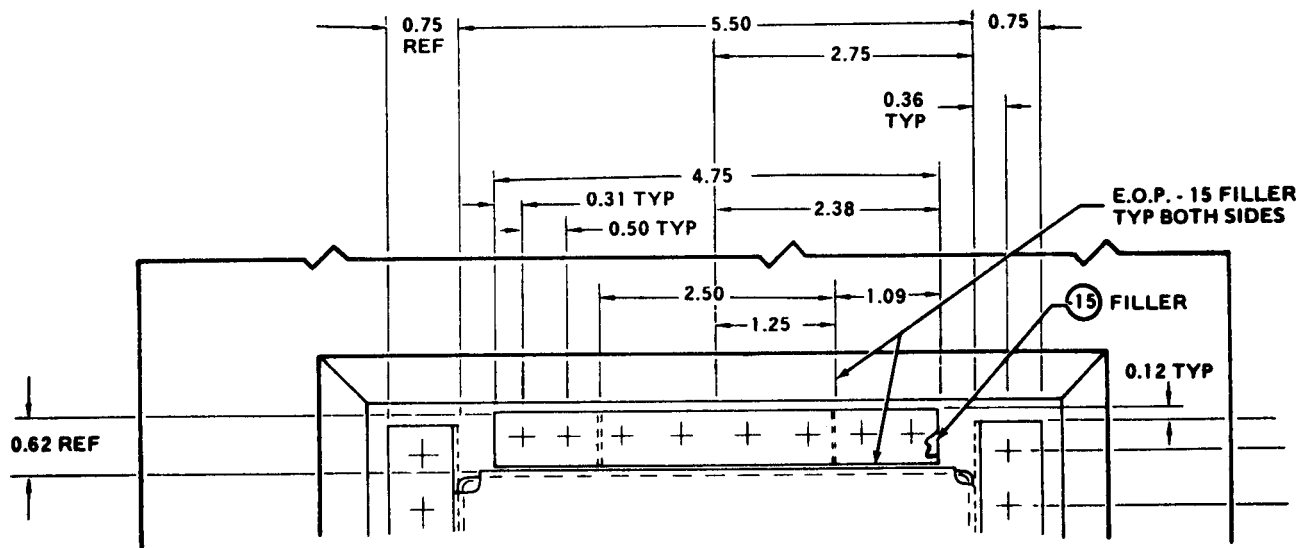
PART NUMBER	ITEM NAME	FABRICATE FROM NSN	STYLE	LENGTH	WIDTH	NOTES
209-030-002-21	SEAL	9330-00-089-8033	1	24.500	0.750	
209-030-002-23	SEAL	9330-00-089-8033	1	24.500	0.750	
209-030-128-25	VENT, BATTERY	4710-00-279-0955	2	3.500		
209-030-128-27	VENT, BATTERY	4710-00-278-8010	2	3.000		
209-030-128-29	VENT, BATTERY	4710-00-278-8010	2	4.500		
209-030-217-25	GASKET	9320-00-878-6507	1	120.000	0.750	
209-030-286-21	SEAL, PLAIN	9320-00-202-1846	1	22.000	0.062	
209-030-286-23	SEAL, PLAIN	9320-00-202-1846	1	23.000	0.062	
209-030-286-25	SEAL, PLAIN	9320-00-202-1846	1	22.500	0.062	

 Figure D-286.



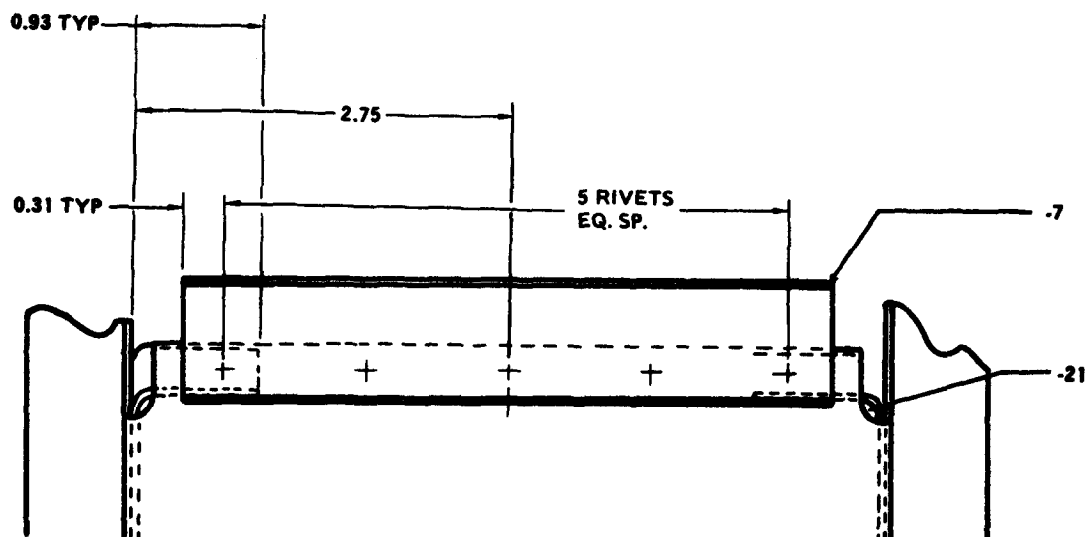
Part Number: 209-030-139-11 ANGLE
 209-030-139-12 ANGLE
Fabricate from: NSN 9535-00-167-2267
Material: 2024-T42 Al Aly Federal
 Specification QQ-A-250/3
 0.040 Inch Thick, 7.20 Inch Wide,
 8.25 Inch Long.

Figure D-287.



Part Number: 209-030-139-15 FILLER
Fabricate from: NSN 9535-00-167-2280
Material: 2024-T3 Al Aly Federal
 Specification QQ-A-250/5
 0.040 Inch Thick, 0.62 Inch Wide,
 1.59 Inch Long.

Figure D-288.

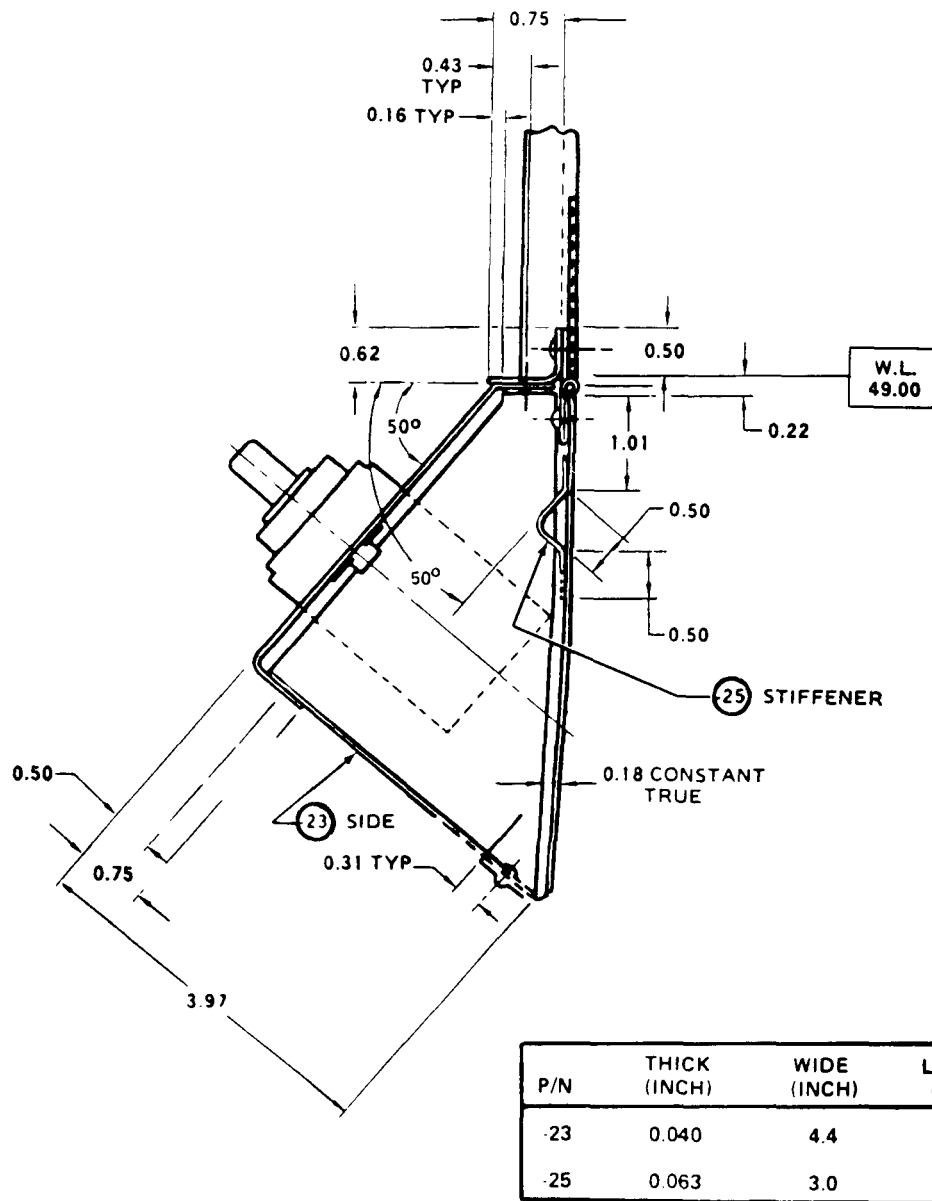


P/N	THICK	WIDE	LENGTH
-7	0.040	1.88	5.75
-21	0.040	5.9	7.5

NOTE: SEAL TOP AND SIDE WITH SEALANT PER MIL-8-8802.

Part Number: 209-030-139-7 ANGLE
 209-030-139-21 TOP
 Fabricate from: NSN
 Material: 2024-T42 Al Aly Federal
 Specification QQ-A-250/3

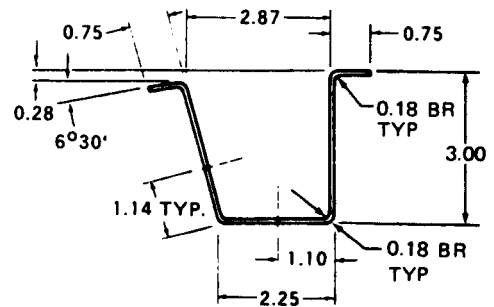
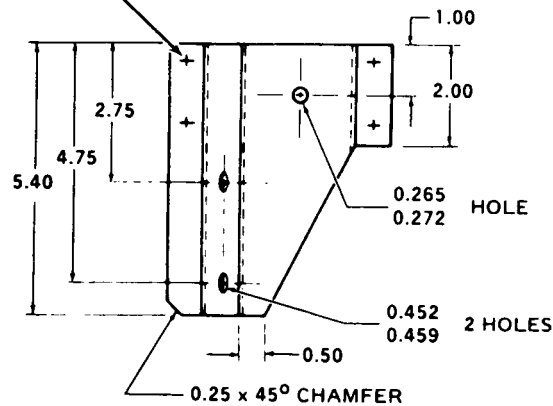
Figure D-289.



Part Number: 209-030-139-23 SIDE
 Fabricate from: NSN 9535-00-167-2267
 Part Number: 209-030-139-25 STIFFENER
 Fabricate from: NSN 9535-00-554-1417
 Material: 2024-T42 Al Aly Federal
 Specification QQ-A-250/5

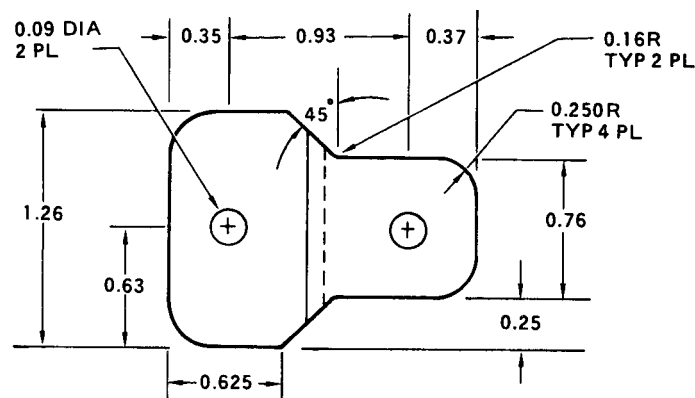
Figure D-290.

FOUR HOLES FOR
5/32 RIVETS - COORDINATE
WITH HOLES IN STRUCTURE



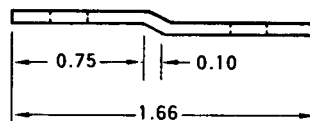
Part Number: 209-030-253-15 SUPPORT
Fabricate from: NSN 9535-00-640-2311
Material: Aluminum Alloy 2024 - T3
Federal Specification QQ-A-250/5,
0.050 Inch Thick, 5.9 Inches Wide, 10.1 Inches Long

Figure D-291.



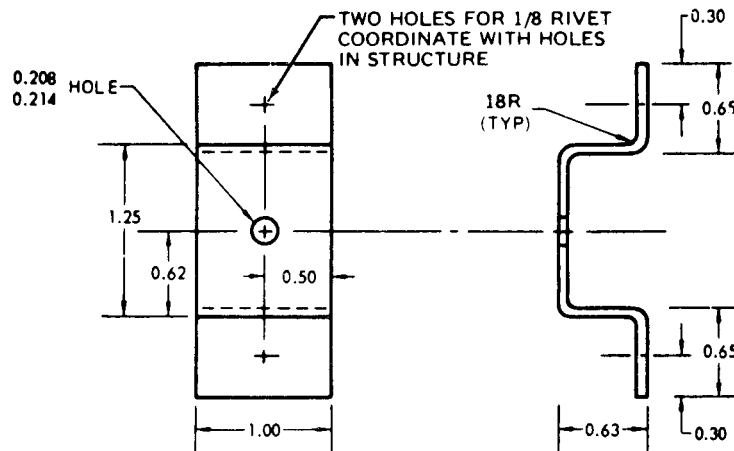
NOTE

209-030-262-17 may be used in lieu of
-15, -16, -23, and -24.



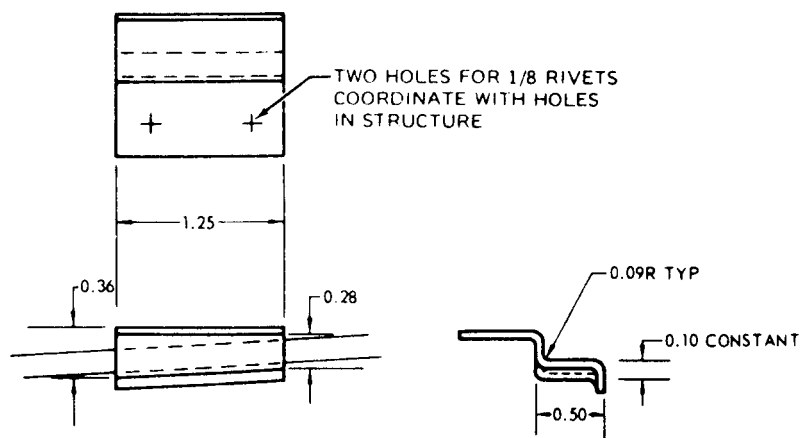
Part Number: 209-030-262-17 BRACKET
Fabricate from: NSN 9535-00-640-2311
Material: 2024-T42 Al Aly Sheet, Federal Specification QQ-A-250/5
0.050 Inch Thick, 1.8 Inch Wide, 2.2 Inch Long

Figure D-292.



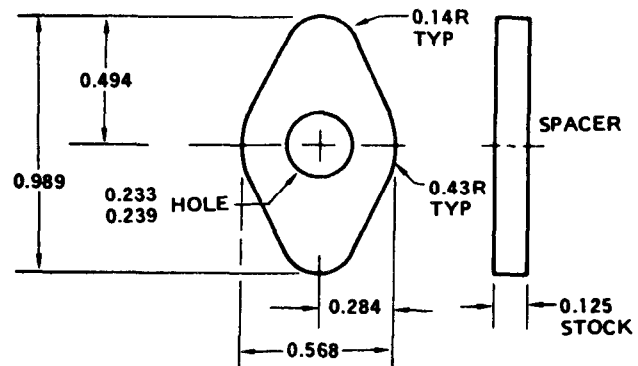
Part Number: 209-030-286-29 SUPPORT, Access Door
 Fabricate from: NSN 9535-00-640-2311
 Material: 2024-T3 Al Aly Sheet, Federal Specification QQ-A-050/5
 0.050 Inch Thick, 1.1 Inch Wide, 4.0 Inch Thick

Figure D-293.



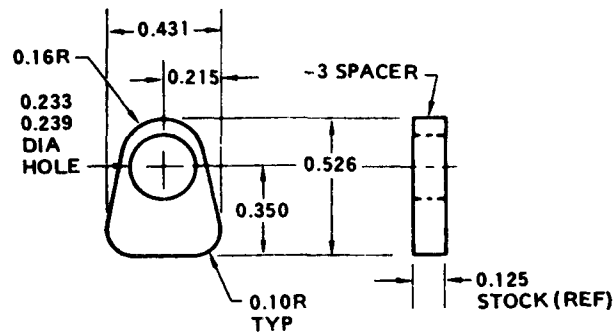
Part Number: 209-030-286-31 CLIP, Access Door
 Fabricate from: NSN 9535-00-086-9729
 Material: 2024-T3 Al Aly Sheet, Federal Specification QQ-A-250/5
 0.032 Inch Thick, 1.8 Inch Wide, 2.0 Inch Long

Figure D-294.



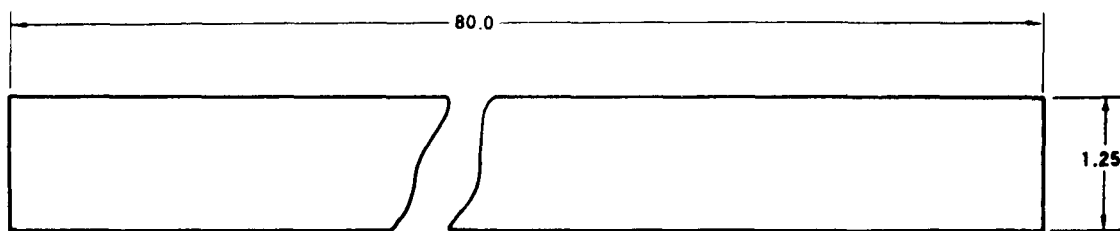
Part Number: 209-030-314-1 SPACER, Fuel
Fabricate from: NSN 9535-00-232-0418
Material: 2024-T3 Al Aly Sheet, Federal Specification QQ-A-250/5
 0.125 Inch Thick, 1.6 Inch Wide, 2.0 Inch Long

Figure D-295.



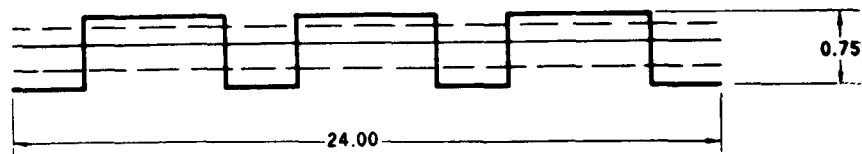
Part Number: 209-030-314-3 SPACER, Fuel
Fabricate from: NSN 9535-00-232-0418
Material: 2024-T3 Al Aly Sheet, Federal Specification QQ-A-250/5
 0.125 Inch Thick, 1.6 Inch Wide, 1.6 Inch Long

Figure D-296.



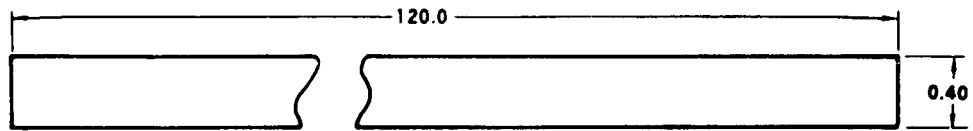
Part Number: 209-030-814-7 TAPE
 Fabricate from: NSN
 Material: Number 853 Commercial Tape.
 Purchase from FSCM Number 6103.

Figure D-297.



Part Number: 209-030-836-27 HINGE HALF
 Fabricate from: NSN 5340-00-616-4803
 Material: MS20257HC5 Hinge Stock

Figure D-298.



Part Number: 209-030-836-31 TAPE
 Fabricate from: NSN 7510-00-145-0171
 Material: Y9265A

Figure D-299.

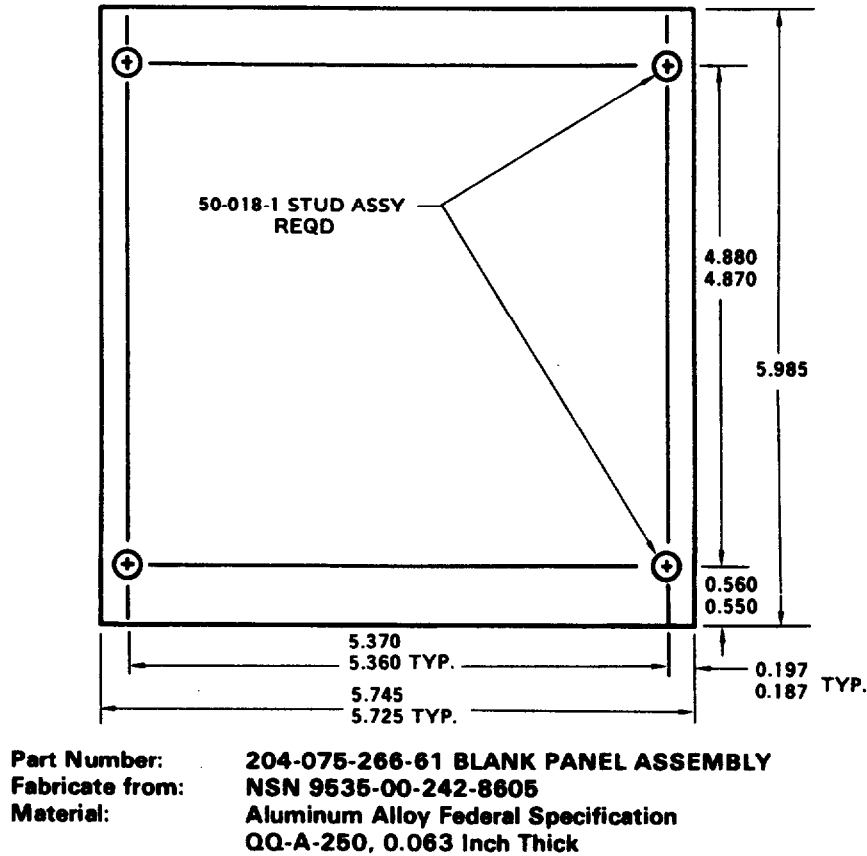


Figure D-299.1.

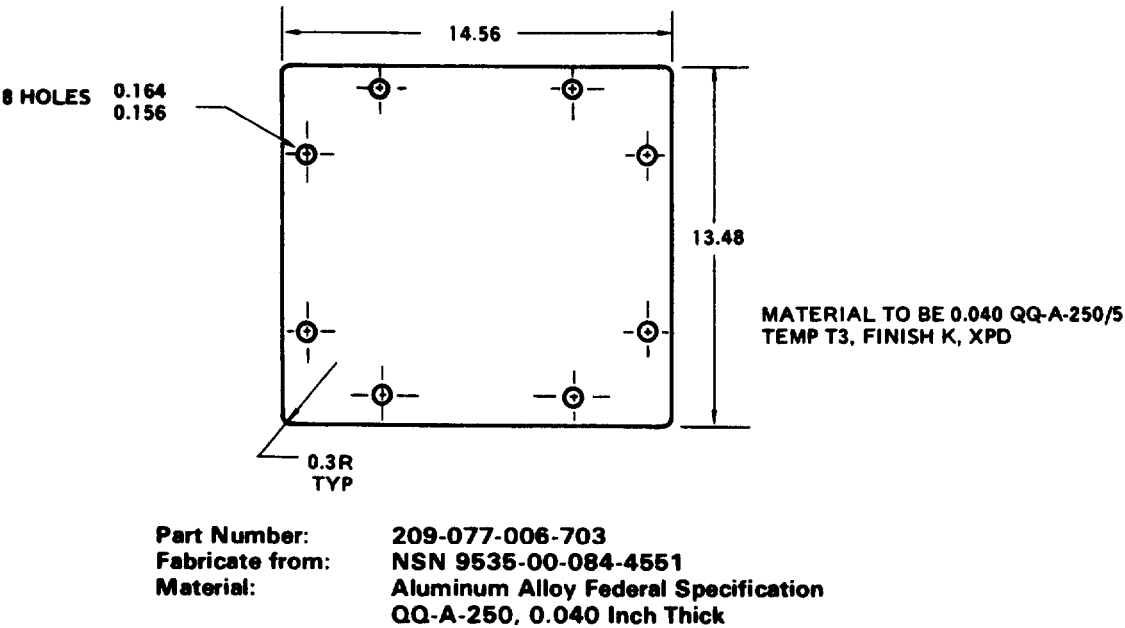
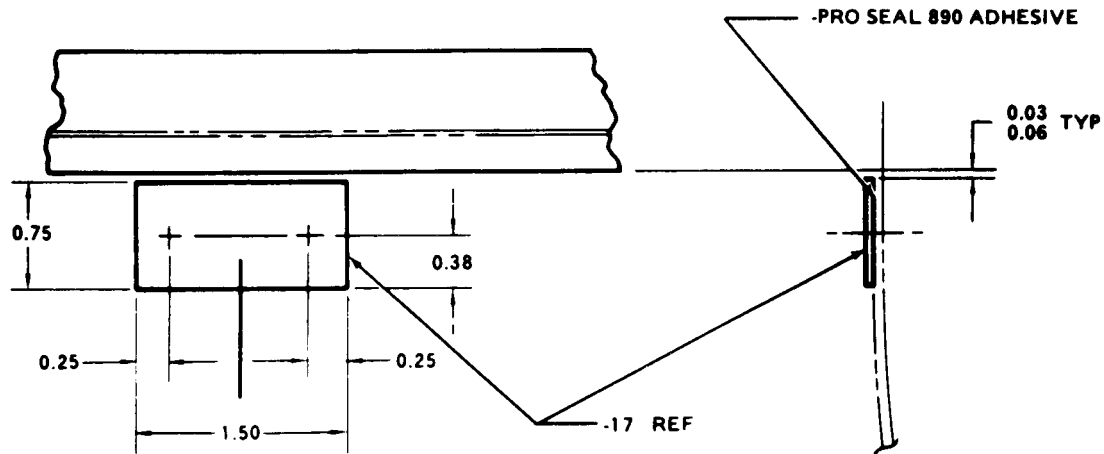


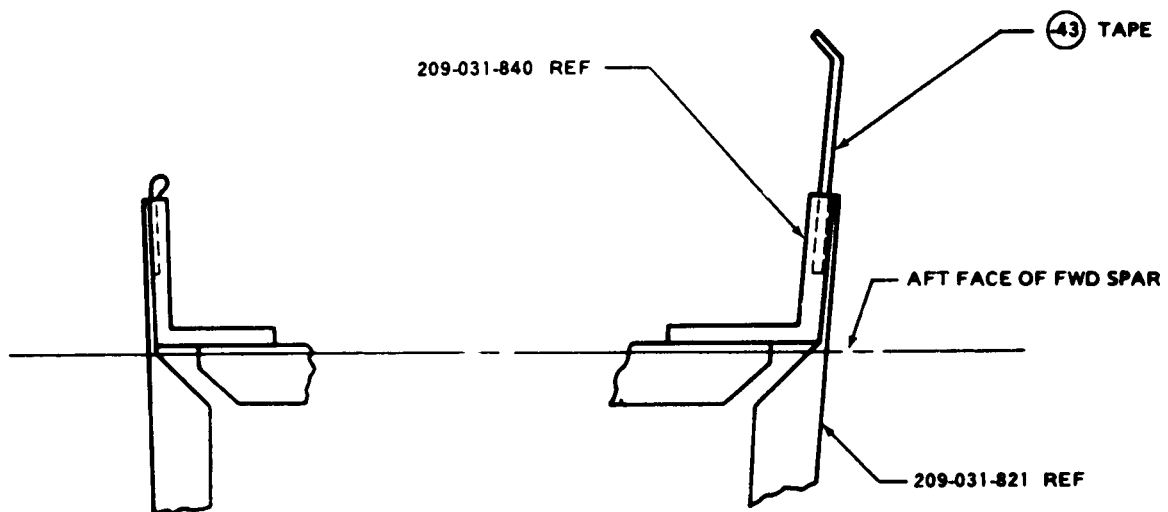
Figure D-300.



NOTE: APPLY PROSEAL 890 ADHESIVE
BETWEEN SUPPORT AND STRIP

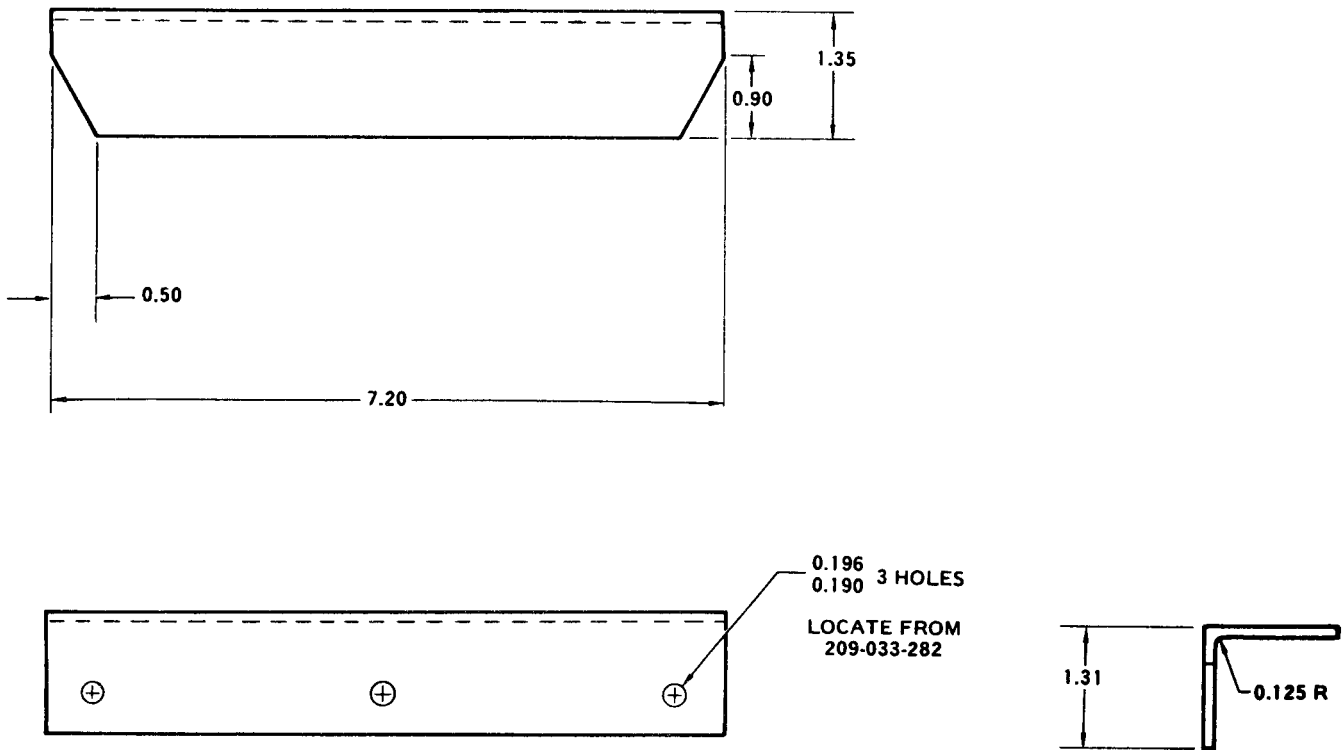
Part Number: 209-030-851-17 STRIP
Fabricate from: NSN 9330-00-143-8604
Material: Nylatron G5 Sheet
0.063 Inch Thick, 1.25 Inch Wide,
2.00 Inch Long.

Figure D-301.



Part Number: 209-031-801-43 TAPE
Fabricate from: NSN
Material: Y9265A
1.5 Inch Wide, 50.0 Inch Long.

Figure D-302.

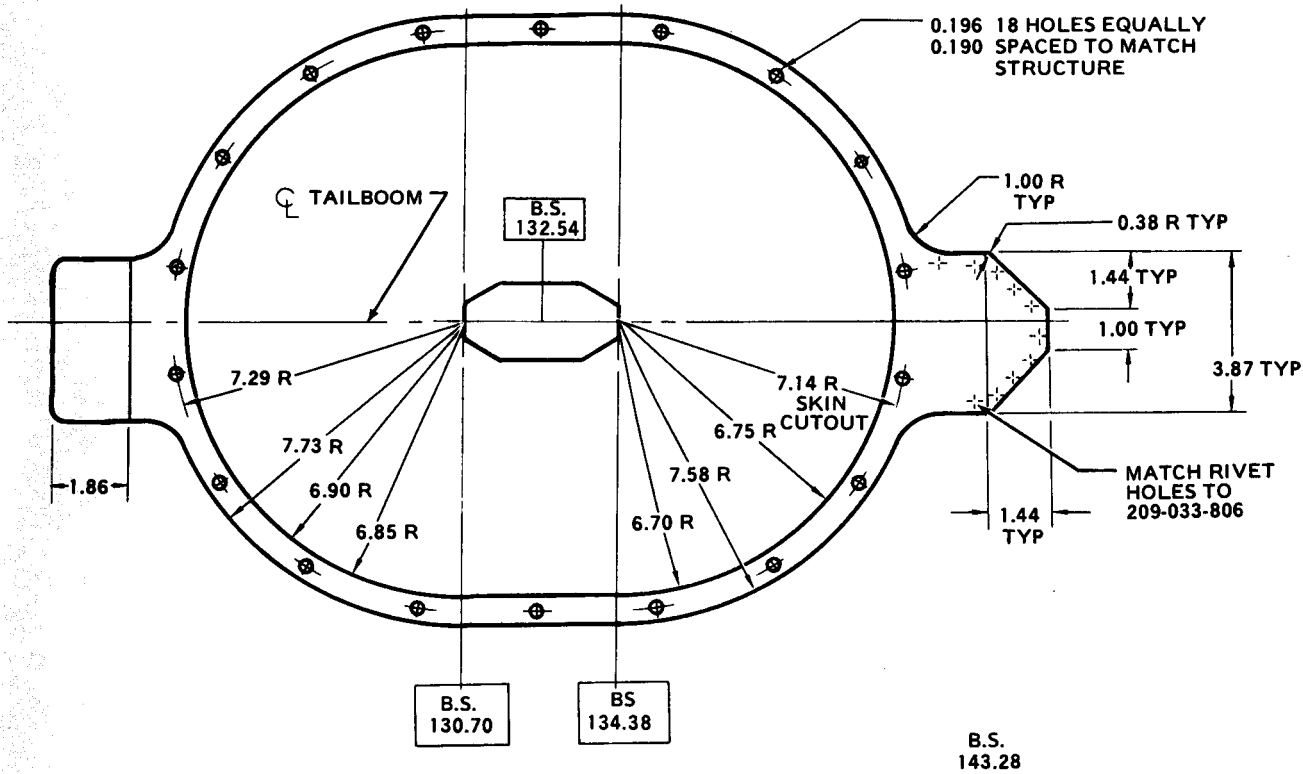


Part Number: 209-033-281-119 SUPPORT
Fabricate from: NSN
Material: 7075-T6 Al Aly, Federal Specification QQ-A-200/11, 0.125 Inch Thick.

Figure D-303.

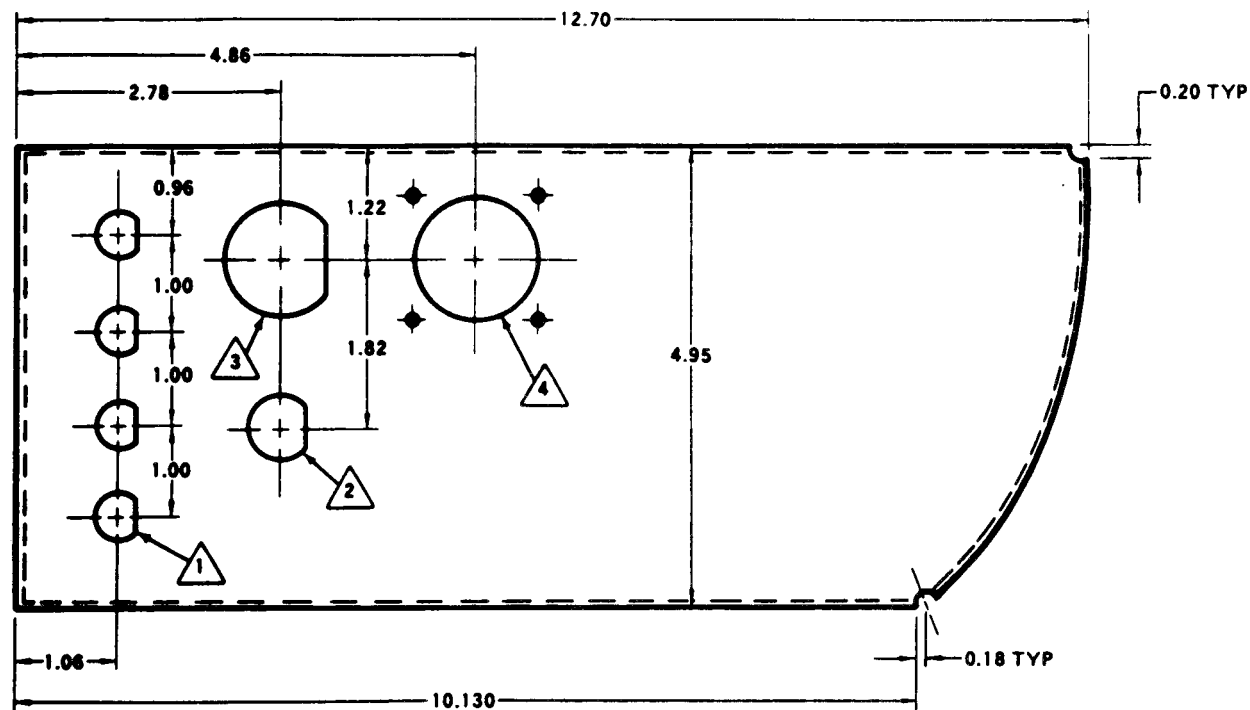
(Figure D-304 Intentionally Omitted)

Figure D-304.

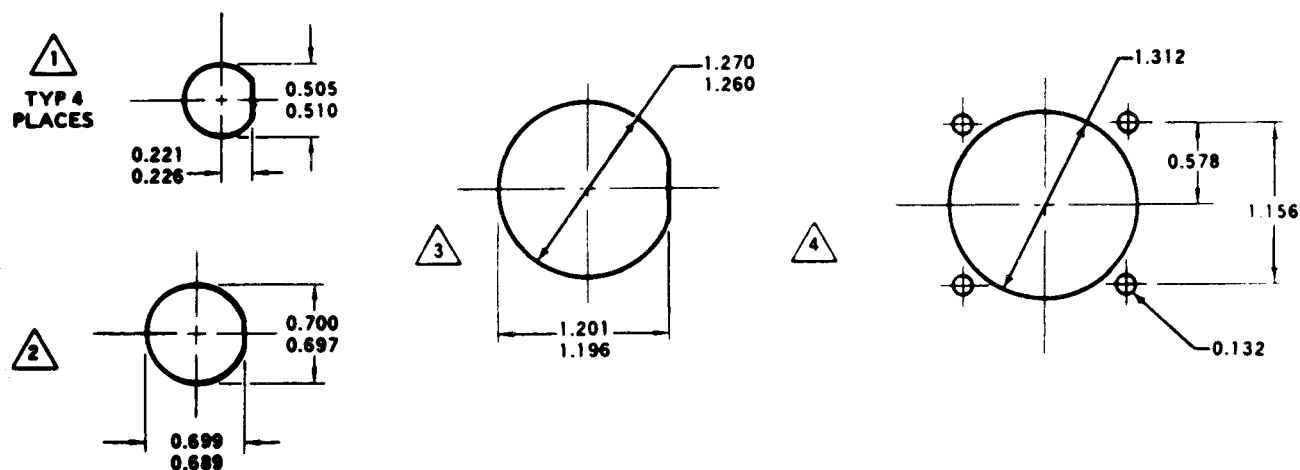


Part Number: 209-033-823-23 DOUBLER
Fabricate from: NSN
Material: 2024-T42 Al Aly, Federal Specification QQ-A-250/5, 0.040 Inch Thick, 16.1 Inches Wide, 26.1 Inches Long.

Figure D-305.

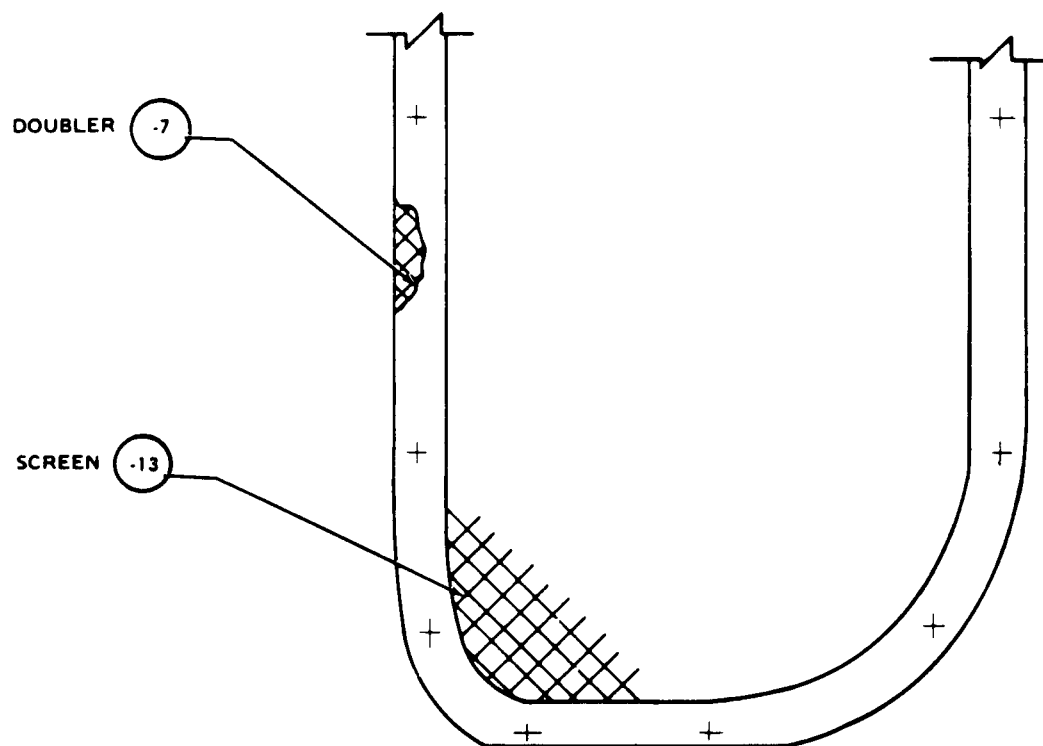


NOTE: CONTOUR TO FIT BULKHEAD AT B.S. 41.37.



Part Number: 209-033-846-117 BRACKET
 Fabricate from: NSN 9535-00-084-4952
 Material: 7075-T6 Al Aly, Federal
 Specification QQ-A-250/13,
 0.050 Inch Thick.

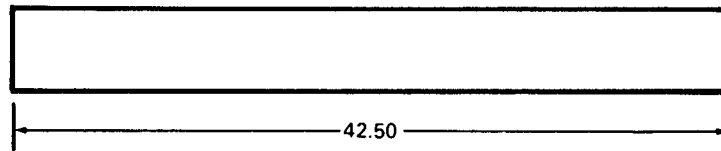
Figure D-306.



NOTE: TRIM SCREEN 0.06 INCH INSIDE OF .7 DOUBLER ALL AROUND
TYPICAL

Part Number: 209-060-405-13 SCREEN
Fabricate from: NSN 5335-00-231-1274
Material: Screen 7.0 Inch X 18.0 Inch

Figure D-307.

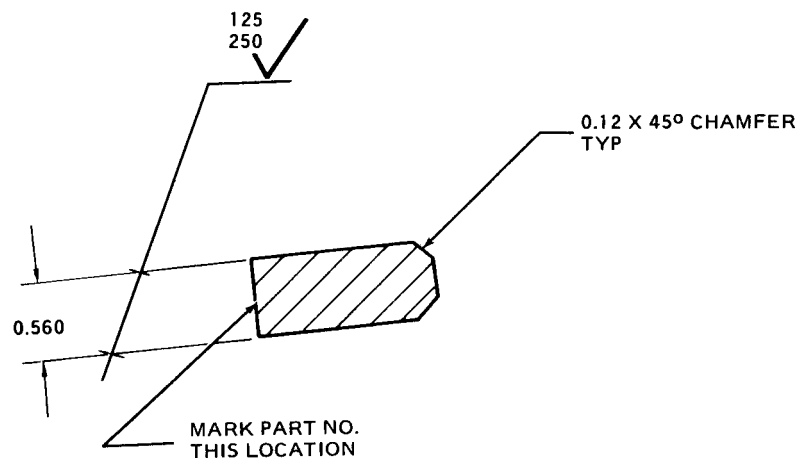


NOTES:

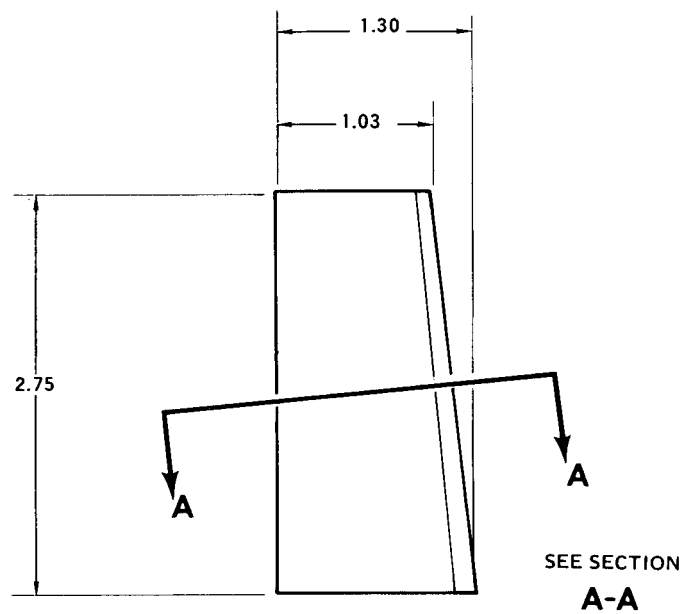
1. Make from 1/2-B-90-500 Extrusion and purchase from Apex Rubber Company, Philadelphia, Pa. Code Ident 99751.

Part Number: 209-060-807-69 SEAL
 Fabricate from: NSN 9320-00
 Material: Rubber Extrusion 1/2-B-90-500

Figure D-308.

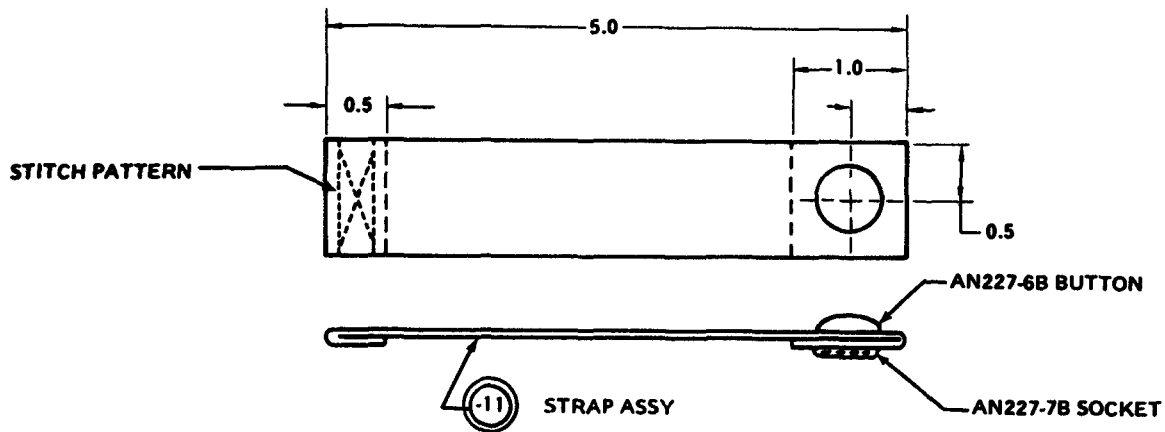


SECTION A-A



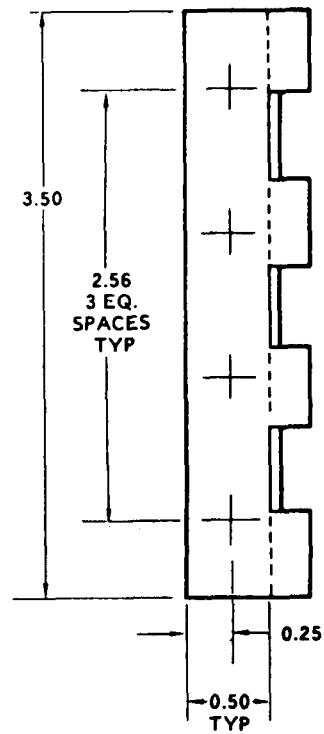
Part Number: 209-060-906-1 SPACER, FWD
FIREWALL
Fabricate from: NSN
Material: Phenolic Cotton Fabric
0.75 Inch Thick, 1.8 Inch Wide,
3.3 Inch Long.

Figure D-309.



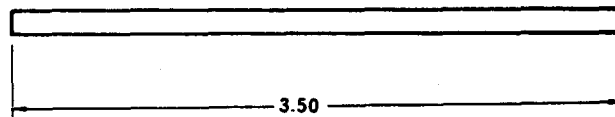
Part Number: 209-070-155-11 STRAP
Fabricate from: NSN
Material: Cotton Webbing MIL-W-5665, Type II
 Class 2B, Color - O.D. #34087
 per Federal Standard 595.

Figure D-310.



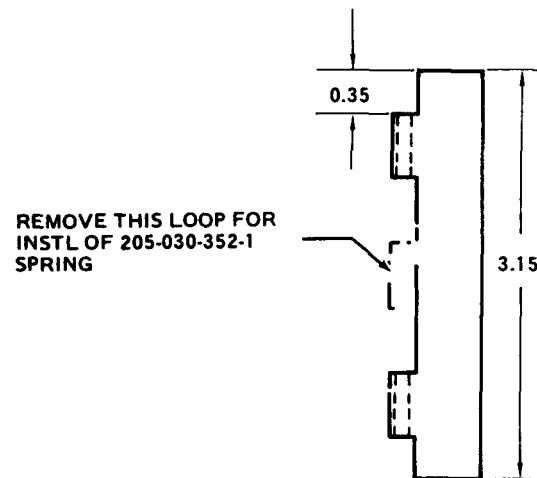
Part Number: 209-070-155-15 HINGE HALF
 Fabricate from: NSN
 Material: Make from MS20257YP3 Hinge Stock

Figure D-311.



Part Number: 209-070-155-17 HINGE PIN
 Fabricate from: NSN 5315-00-116-7737
 Material: Make from MS20253P2-400 Hinge Pin

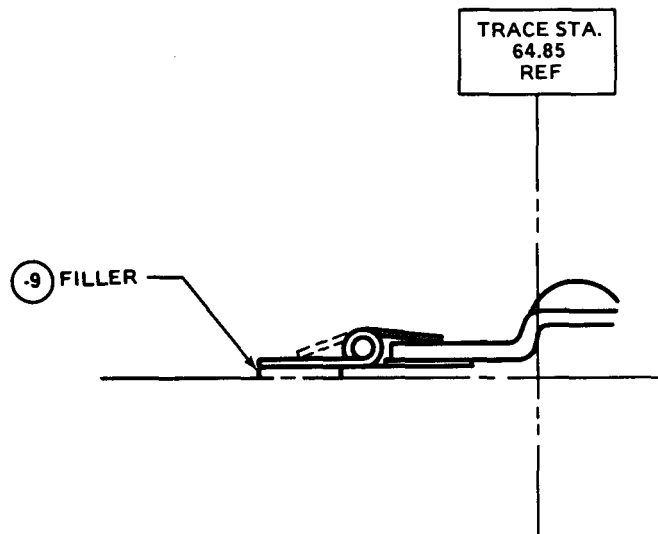
Figure D-312.



NOTE: REMOVE LOOP FOR INSTALLATION OF SPRING.

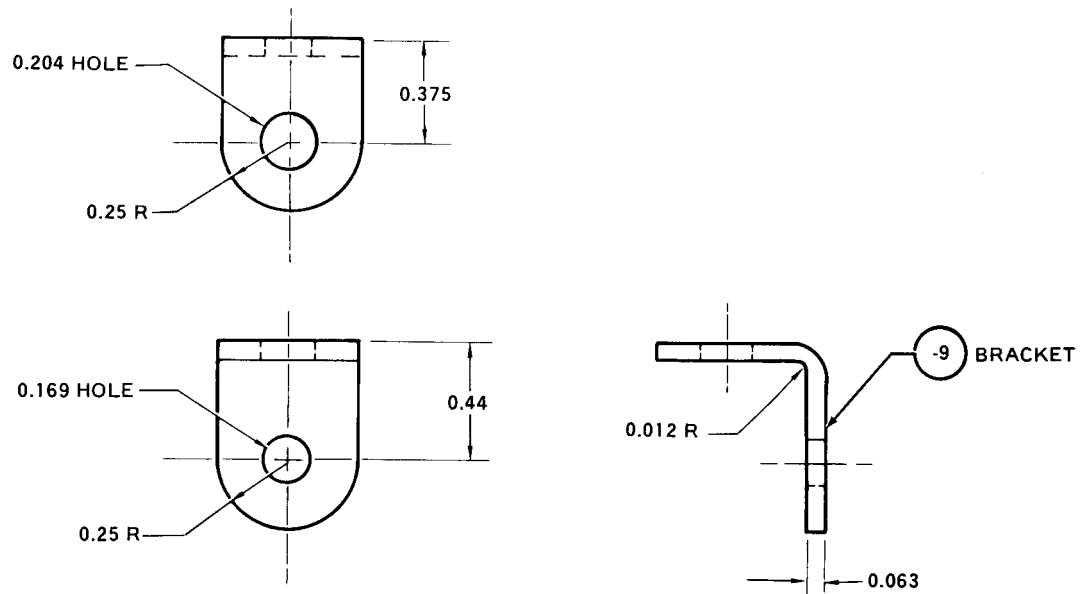
Part Number: 209-070-155-7 HINGE HALF
Fabricate from: NSN
Material: Make from MS20257XP3-350 Hinge Half

Figure D-313.



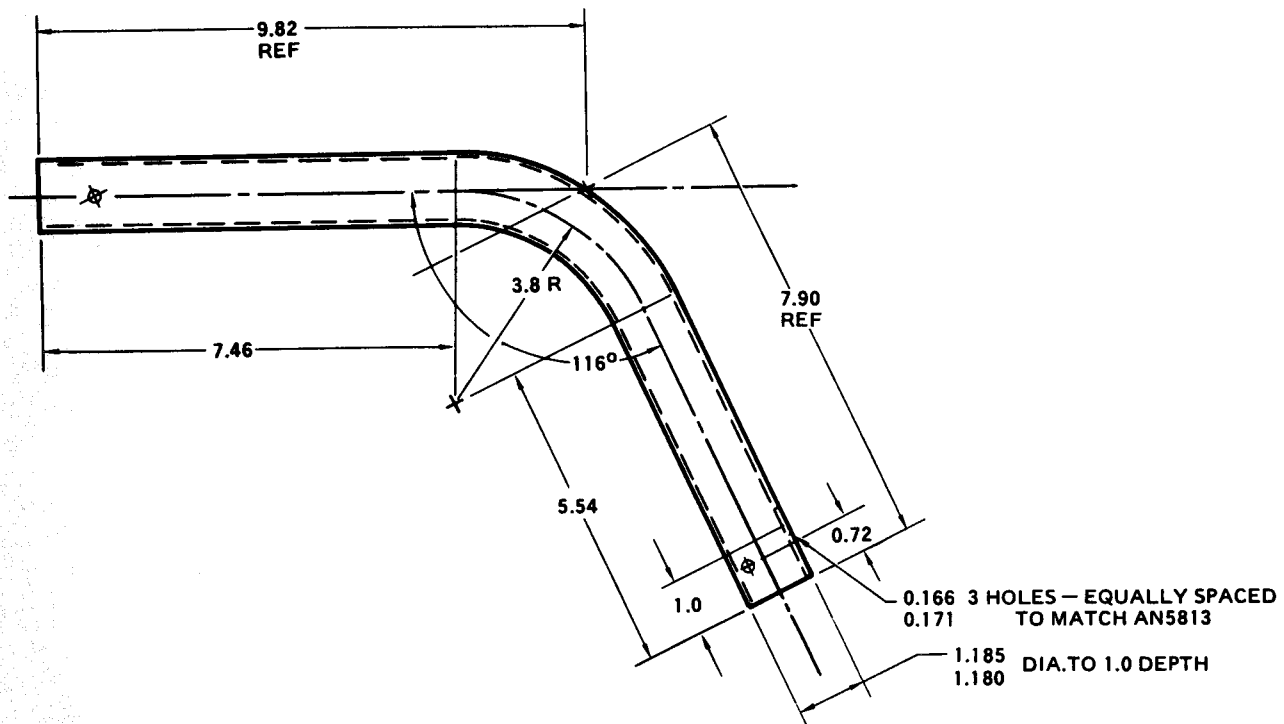
Part Number: 209-070-155-9 FILLER
Fabricate from: NSN 9535-00-232-0378
Material: 2024-T3 Al Aly Federal
 Specification QQ-A-250/5
 0.063 Inch Thick, 1.0 Inch Wide,
 4.0 Inch Long.

Figure D-314.



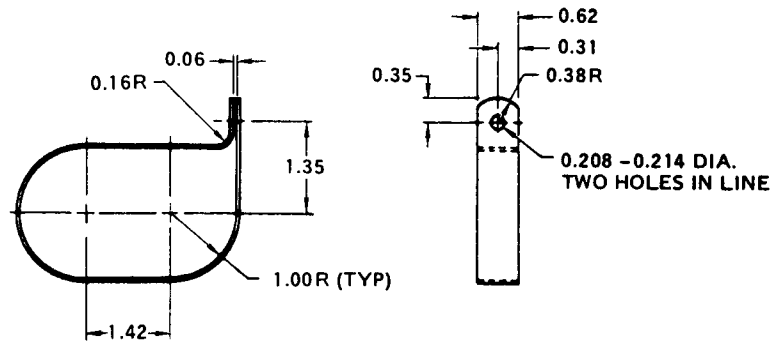
Part Number: 209-070-157-9 BRACKET
Fabricate from: NSN
Material: 2024 Al Aly Federal
 Specification QQ-A-250/5, Cond 0 T42
 0.063 Inch Thick, 1.0 Inch Wide,
 1.8 Inch Long.

Figure D-315.



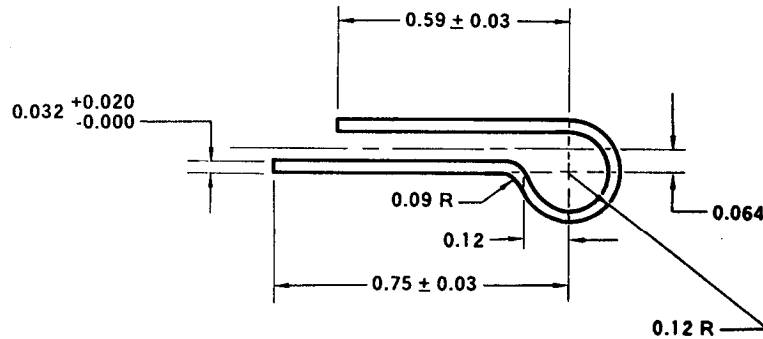
Part Number: 209-070-186-9 TUBE
 Fabricate from: NSN
 Material: 6060-T6 Al Aly, Federal
 Specification QQ-A-250/11,
 1.25 Inches Diameter, 0.035 Inch Wall,
 19.0 Inches Long.

Figure D-316.



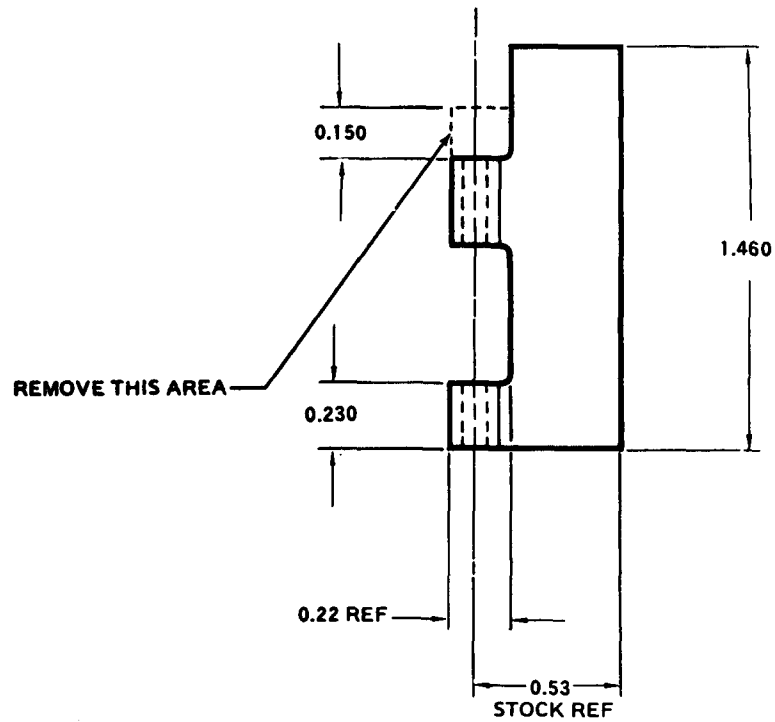
Part Number: 209-070-531-5 CLAMP, Hose
 Fabricate from: NSN 9535-00-167-2280
 Material: 2024-T3 Al Aly Sheet, Federal Specification AA-A-250/5
 0.040 Inch Thick, 1.12 Inch Wide, 11.2 Inch Long

Figure D-317.



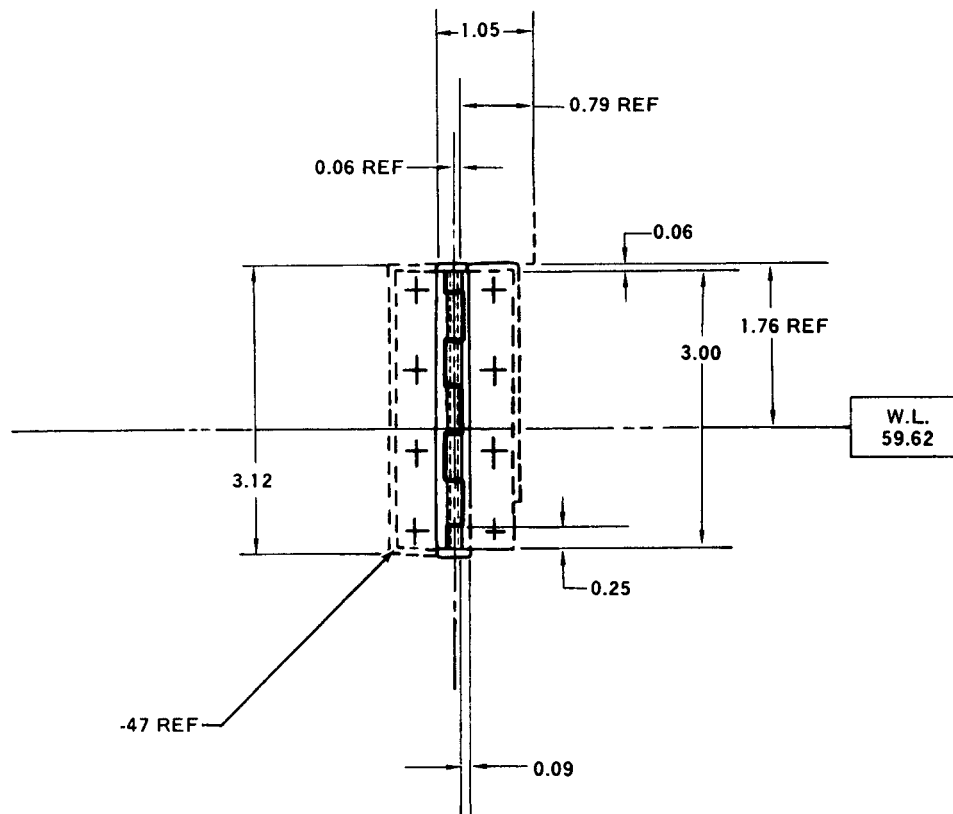
Part Number: 209-071-046-23 EDGING
 Fabricate from: NSN
 Material: Synthetic Rubber MIL-R-6855,
 Class III, Grade 60,
 Color - Natural Black
 12.0 Inch Long.

Figure D-318.



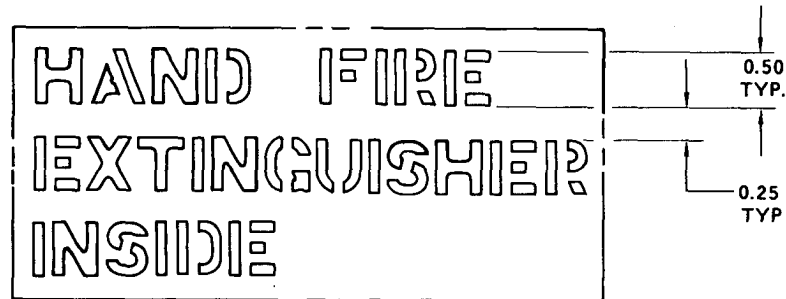
Part Number: 209-071-047-15 HINGE HALF
Fabricate from: NSN
Material: Make from MS20257XP2-146 Hinge Half

Figure D-319.



Part Number: 209-071-229-47 HINGE HALF
 Fabricate from: NSN
 Material: Make from MS20257YP3-350

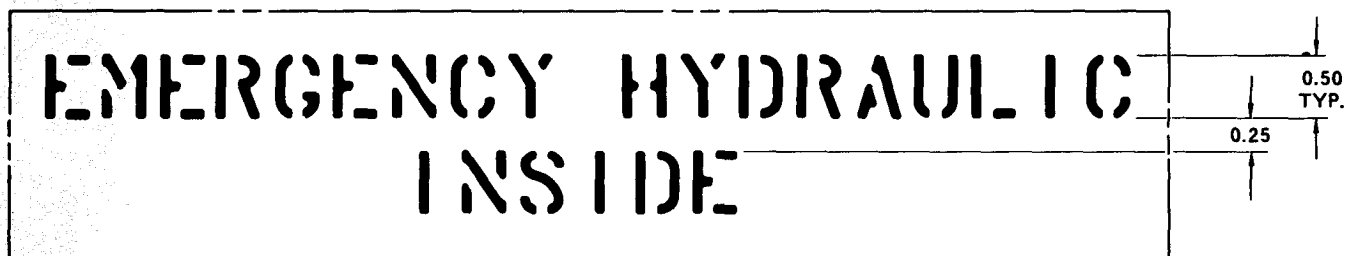
Figure D-320.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

Part Number: 209-072-622-1 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board Federal Specification
 I-U-625, Type 2, Grade 1,
 0.018 Inch Thick

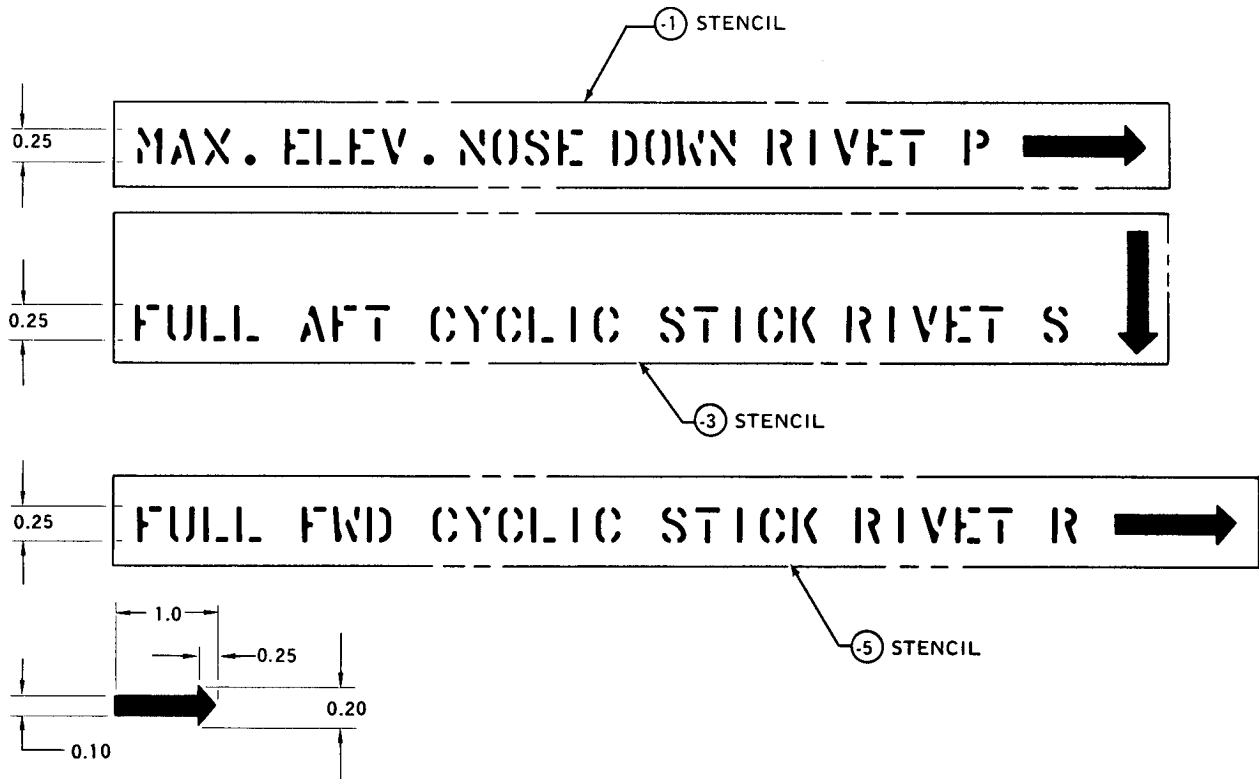
Figure D-321.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

Part Number: 209-072-646-1 STENCIL, Emergency
 Hydraulic Inside
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Federal Specification
 I-U-625, Type 2, Grade 1,
 0.018 Inch Thick

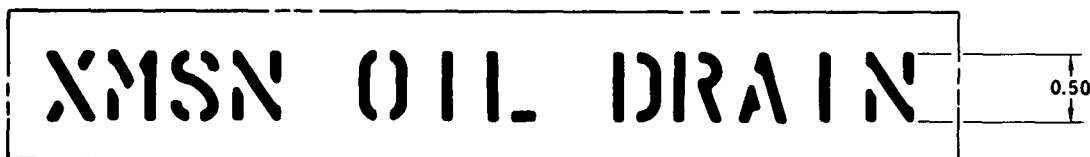
Figure D-322.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

Part Number: 209-072-653-1 STENCIL
 209-072-653-3
 209-072-653-5
 Fabricate from: NSN 9310-00-267-6797
 Material: Stencil Board, Federal Specification
 I-U-625, Type 2, Grade 1,
 0.018 Inch Thick.

Figure D-323.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

Part Number: 209-072-661-1 STENCIL
Fabricate from: NSN 9310-00-267-6797
Material: Stencil Board, Federal Specification
 I-U-625, Type 2, Grade 1,
 0.018 Inch Thick.

Figure D-324.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

Part Number: 209-072-662-1 STENCIL, Hydraulic Deck
 Drain
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Federal Specification
 I-U-625, Type 2, Grade 1
 0.018 Inch Long.

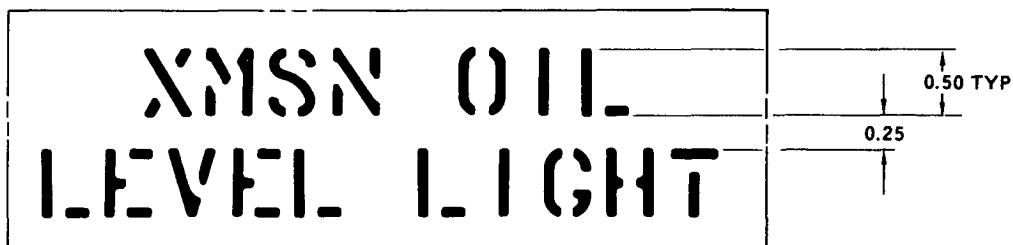
Figure D-325.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

Part Number: 209-072-663-1 STENCIL, Hydraulic
Pump Drain
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Federal Specification
I-U-625, Type 2, Grade 1,
0.018 Inch Thick.

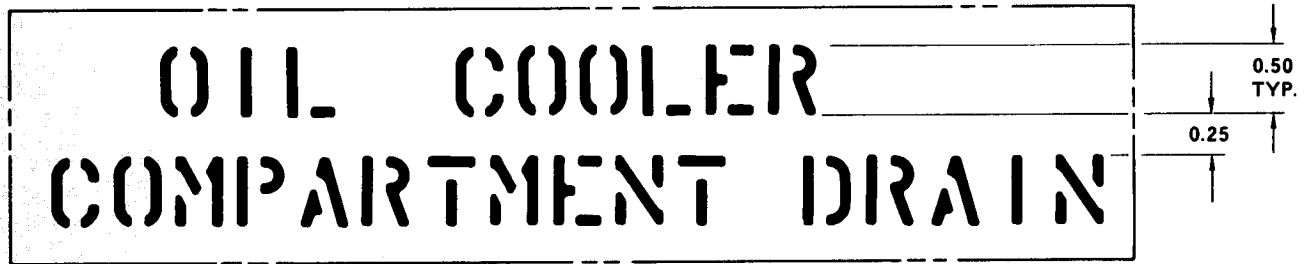
Figure D-326.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

Part Number: 209-072-667-1 STENCIL, Xmsn Oil
Level Light
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Federal Specification
I-U-625, Type 2, Grade 1,
0.018 Inch Thick.

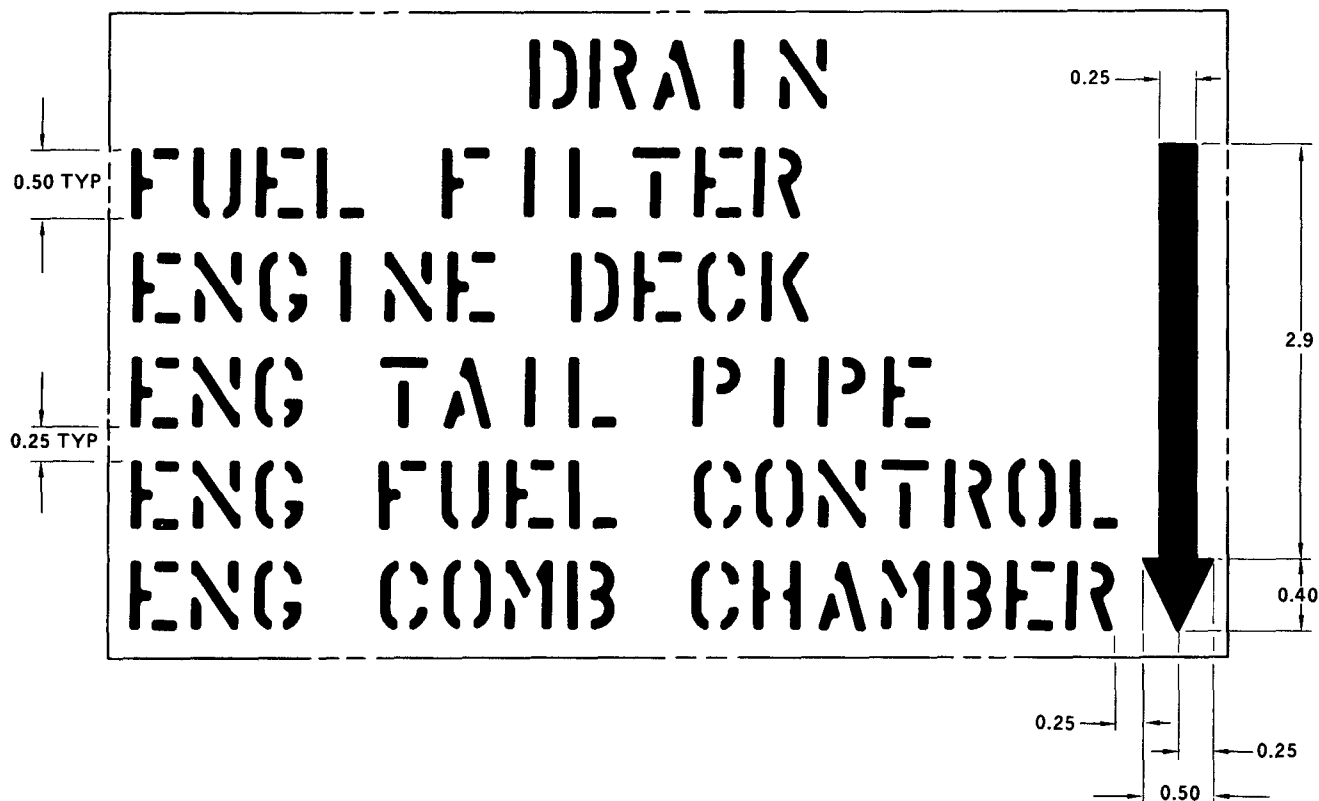
Figure D-327.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

Part Number: 209-072-668-1 STENCIL
 Fabricate from: Stencil Board, Federal Specification
 I-U-625, Type 2, Grade 1,
 0.018 Inch Thick

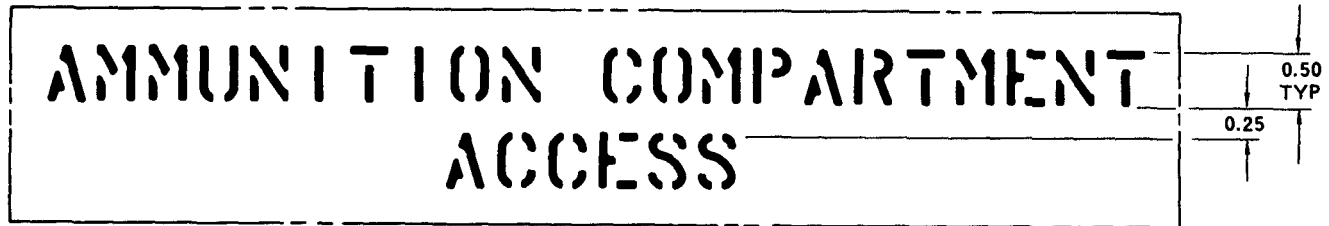
Figure D-328.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

Part Number: 209-072-670-1 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Federal Specification
 I-U-625, Type 2, Grade 1,
 0.018 Inch Thick.

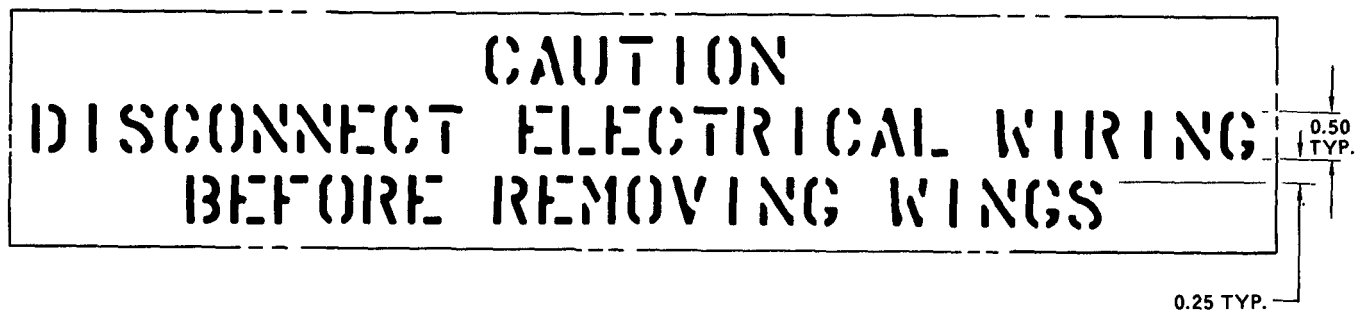
Figure D-329.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

Part Number: 209-072-672-1 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Federal Specification
 I-U-625, Type 2, Grade 1,
 0.018 Inch Thick

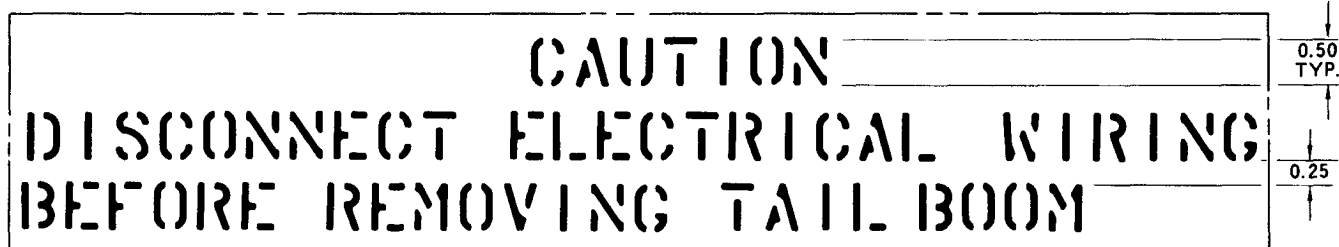
Figure D-330.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

Part Number: 209-072-673-1 STENCIL
 Fabricate from: NSN 9310-00-265-6797
 Material: Stencil Board, Federal Specification
 I-U-625, Type 2, Grade 1,
 0.018 Inch Thick.

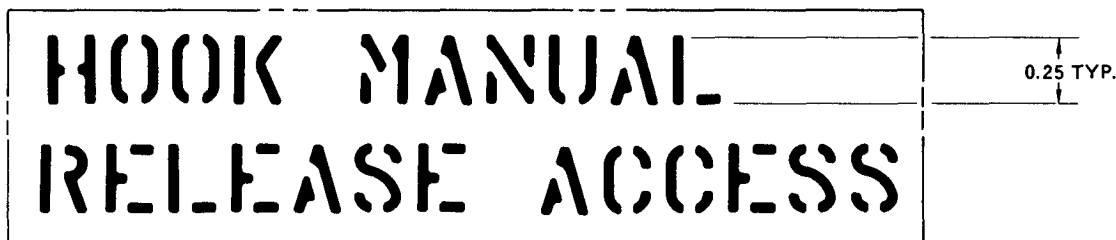
Figure D-331.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

Part Number: 209-072-674-1 STENCIL
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Federal Specification
I-U-625, Type 2, Grade 1,
0.018 Inch Thick.

Figure D-332.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

Part Number: 209-072-676-1 STENCIL, Hook Manual
Release Access
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Federal Specification
I-U-625, Type 2, Grade 1,
0.018 Inch Thick.

Figure D-333.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

Part Number: 209-072-677-1 STENCIL, Ground Safety
Pin Access
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Federal Specification
I-U-625, Type 2, Grade 1,
0.018 Inch Thick

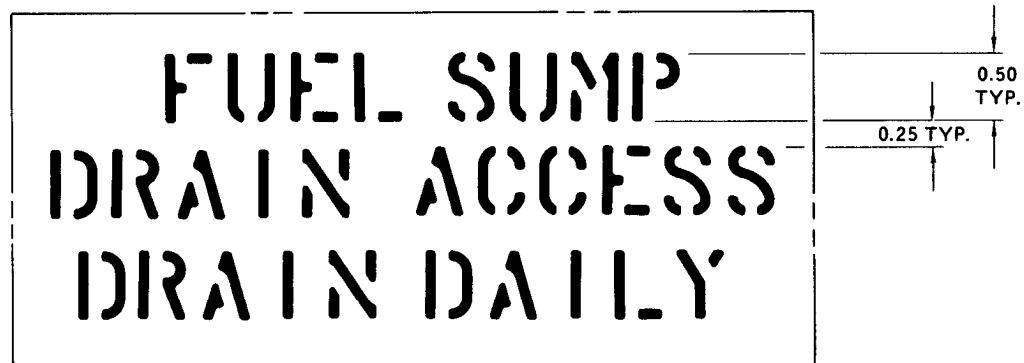
Figure D-334.



NOTE: LETTERS TO BE SPACED APPROXIMATELY AS SHOWN.

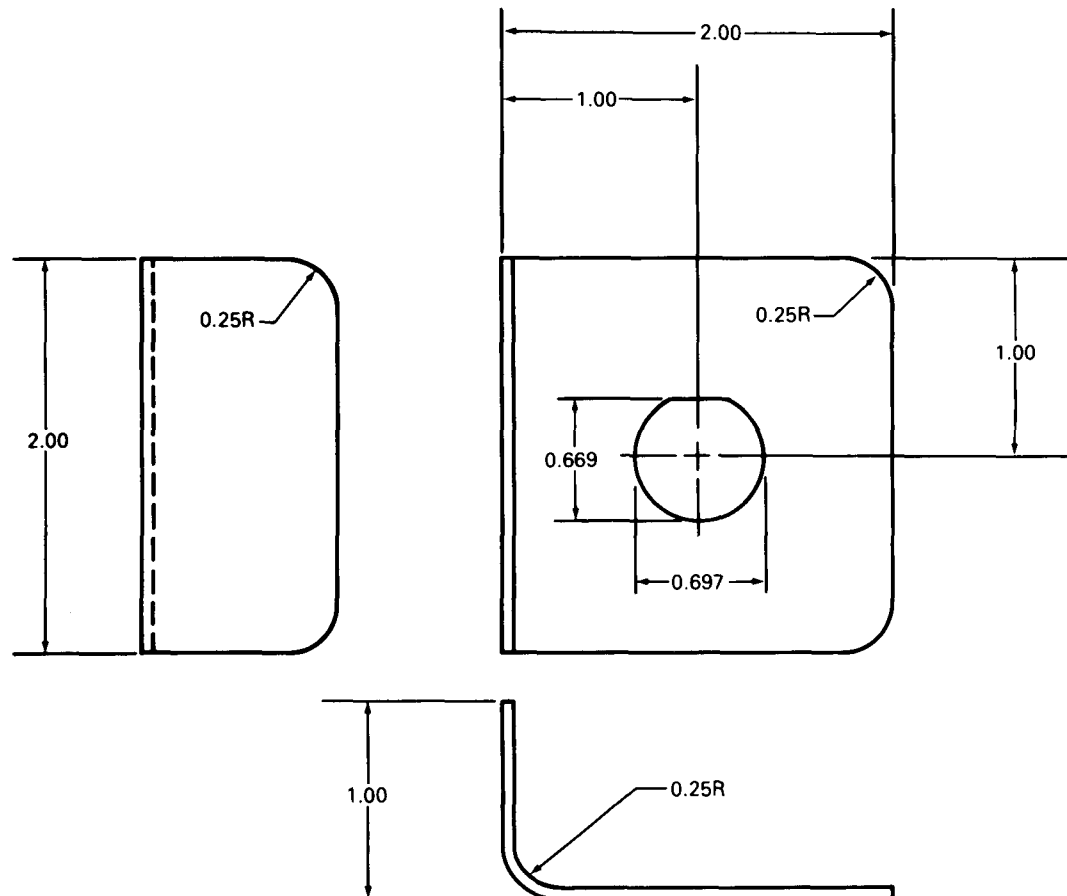
Part Number: 209-072-683-1 STENCIL, Drain Fuel
Sump Daily
Fabricate from: NSN 9310-00-265-6797
Material: Stencil Board, Federal Specification
I-U-625, Type 2, Grade 1,
0.018 Inch Thick.

Figure D-335.



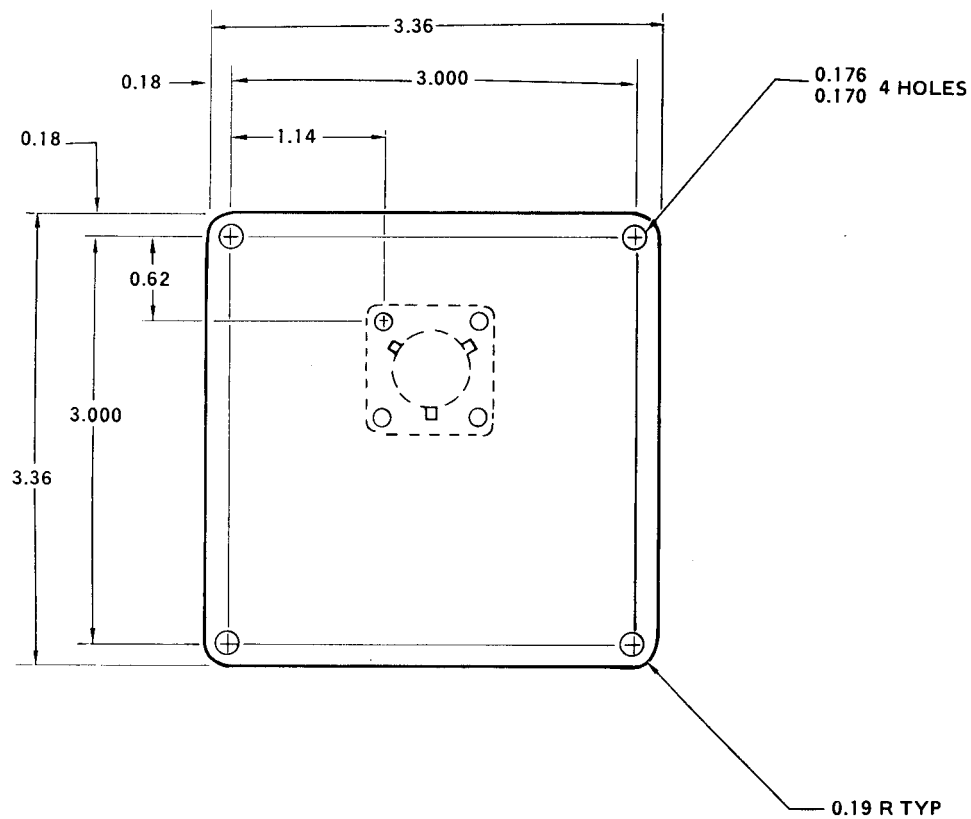
Part Number:	209-072-684-1 STENCIL
Fabricate from:	NSN 9310-00-265-6797
Material:	Stencil Board, Oiled, Federal Specification UU-S-625, Type 2, Grade 1 0.018 Inch Thick.

Figure D-336.



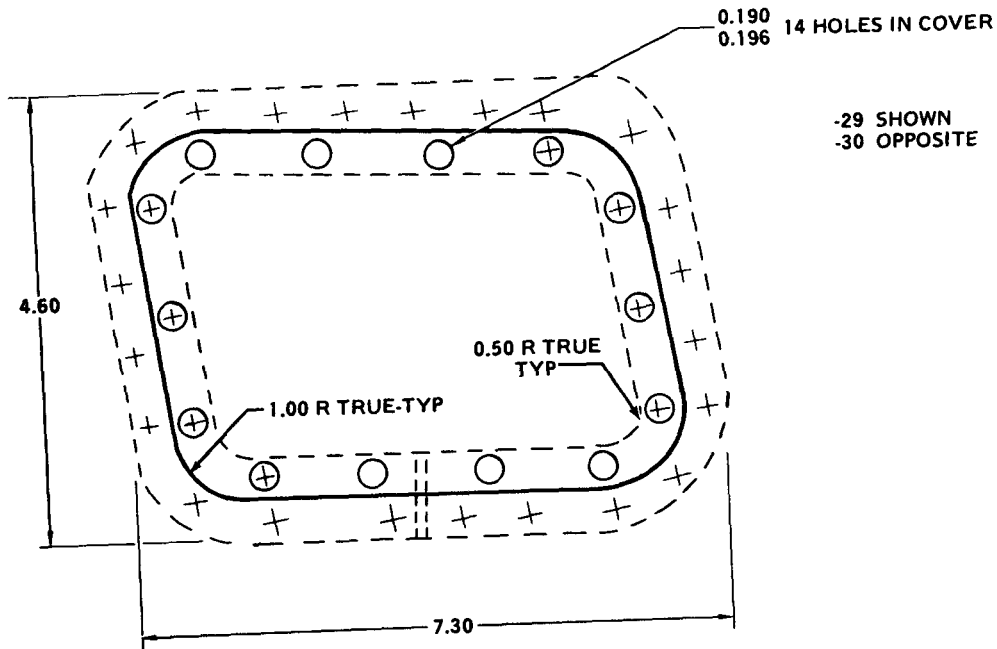
Part Number: 209-075-333-1 BRACKET
Fabricate from: NSN 9535-00-232-0378
Material: Aluminum Alloy 2024, Federal
 Specification QQ-A-250/5, 0.063 Inch Thick,
 3.0 Inches Wide, 2.4 Inches Long

Figure D-337.



Part Number: 209-075-645-3 PANEL
 Fabricate from: NSN 9535-00-167-2280
 Material: 2024 Al Aly, Federal
 Specification QQ-A-250/5 Temp T3,
 0.040 Inch Thick, 3.9 Inch Wide,
 3.9 Inch Long.

Figure D-338.

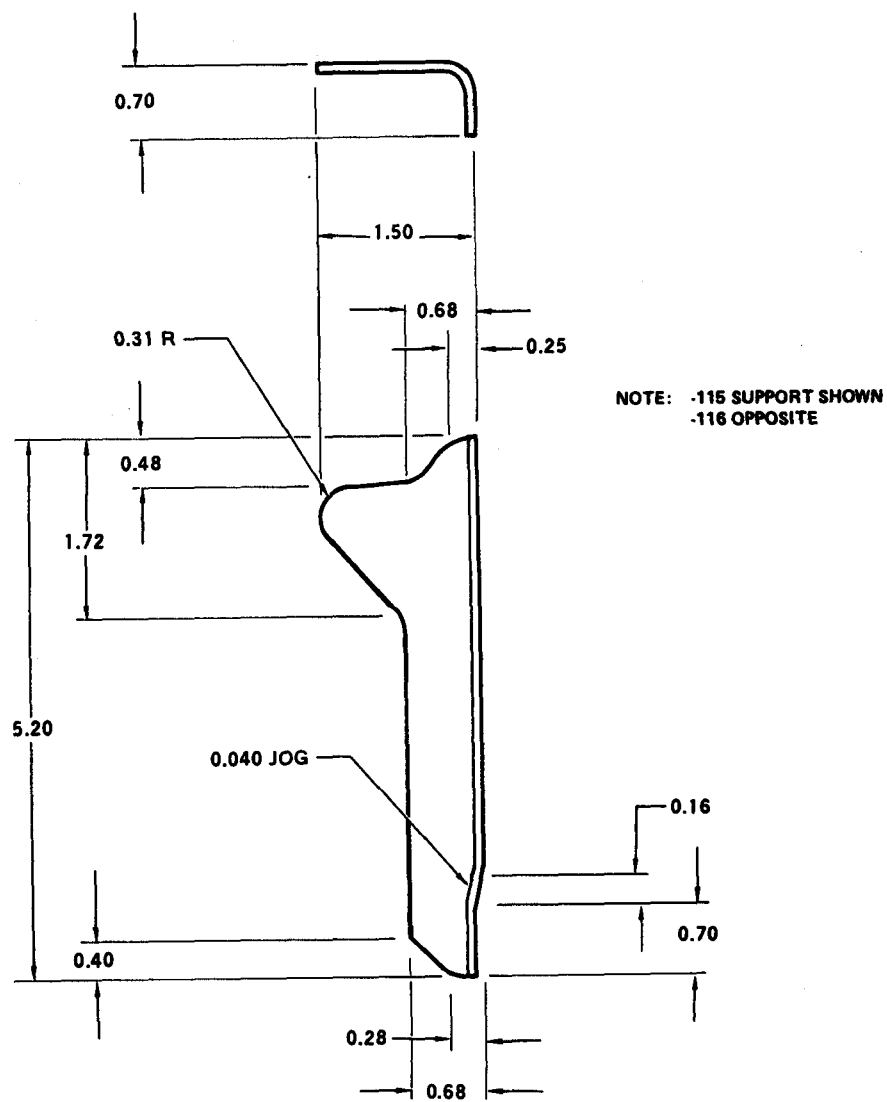


Part Number: 209-961-181-29 DOOR
209-961-181-30 DOOR

Fabricate from: NSN 9535-00-088-6599

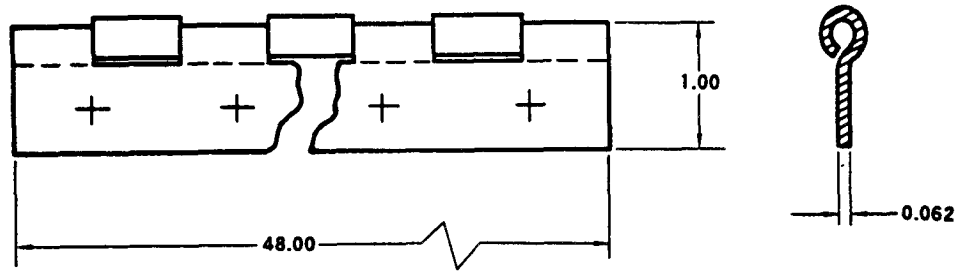
Material: 7075 Al Aly, Federal
Specification QQ-A-250/13, Temp T3
0.063 Inch Thick, 5.9 Inch Wide,
8.1 Inch Long.

Figure D-339.



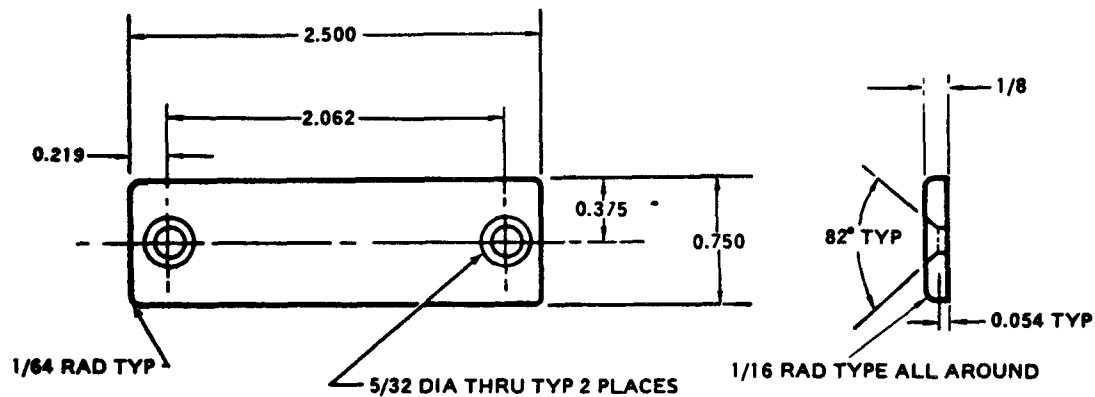
Part Number: 209-961-510-115 SUPPORT
 209-961-510-116 SUPPORT
 Fabricate from: NSN 9535-00-232-0569
 Material: 2024 Al Aly, Federal
 Specification QQ-A-250/5, Temp 0 T42
 0.050 Inch Thick, 2.7 Inch Wide,
 5.7 Inch Long.

Figure D-340.



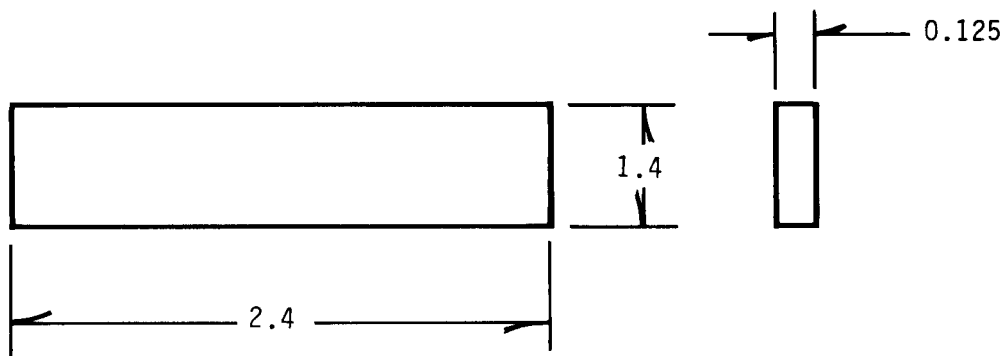
Part Number: 209-961-817-127 HINGE HALF
 Fabricate from: NSN
 Material: MS20257HC5-4900 Hinge Stock,
 0.062 Inch Thick, Corrosion Resistant
 Steel.

Figure D-341.



Part Number: 400012 TERMINAL BLOCK COVER
 Fabricate from: NSN 9330-00-788-9738
 Material: Phenolic Type FBE, MIL-P-15035, Color Black

Figure D-342.



PART NUMBER; 209-033-148-69

FABRICATE FROM: NSN 9535-00-400-3622

MATERIAL: AMS 4013

Figure D-343

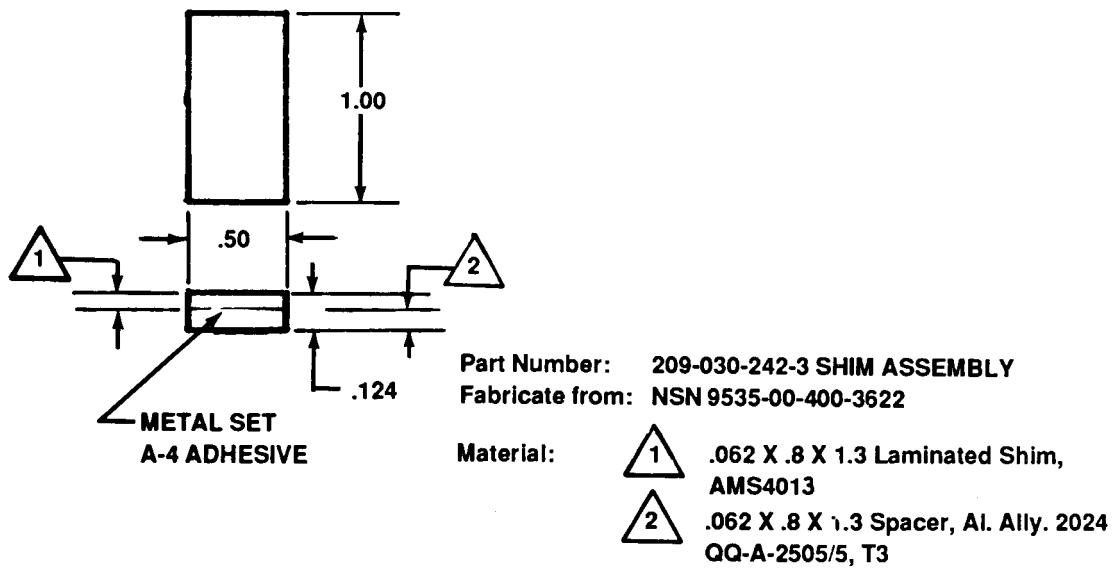


Figure D-344

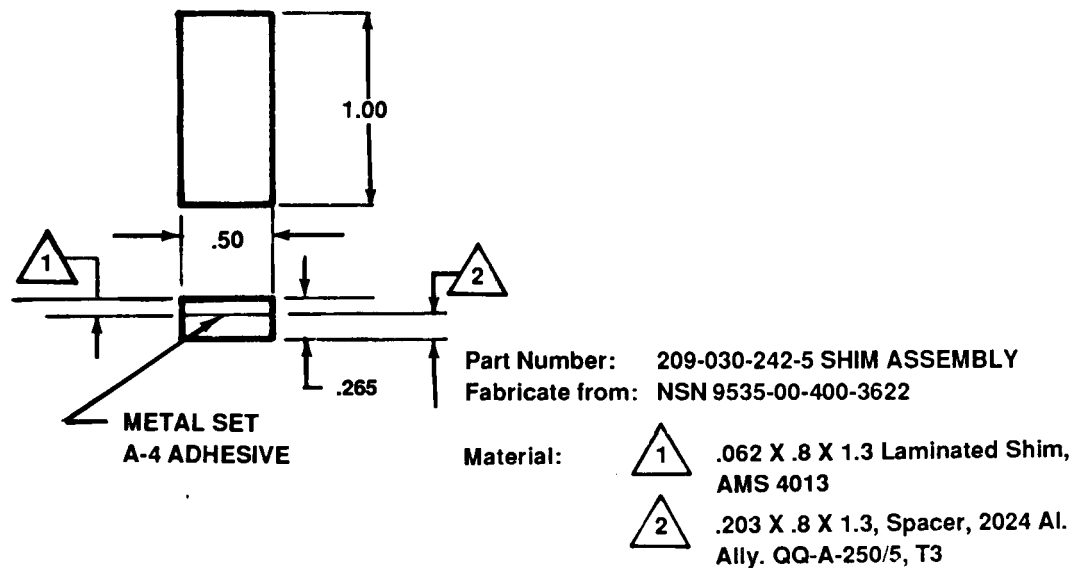
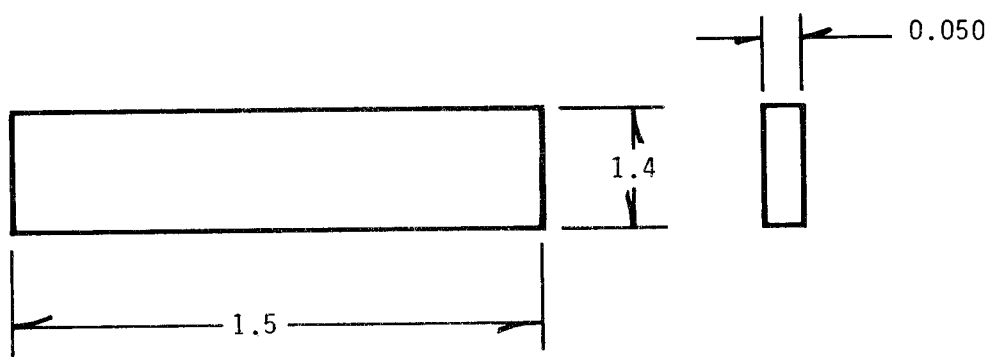
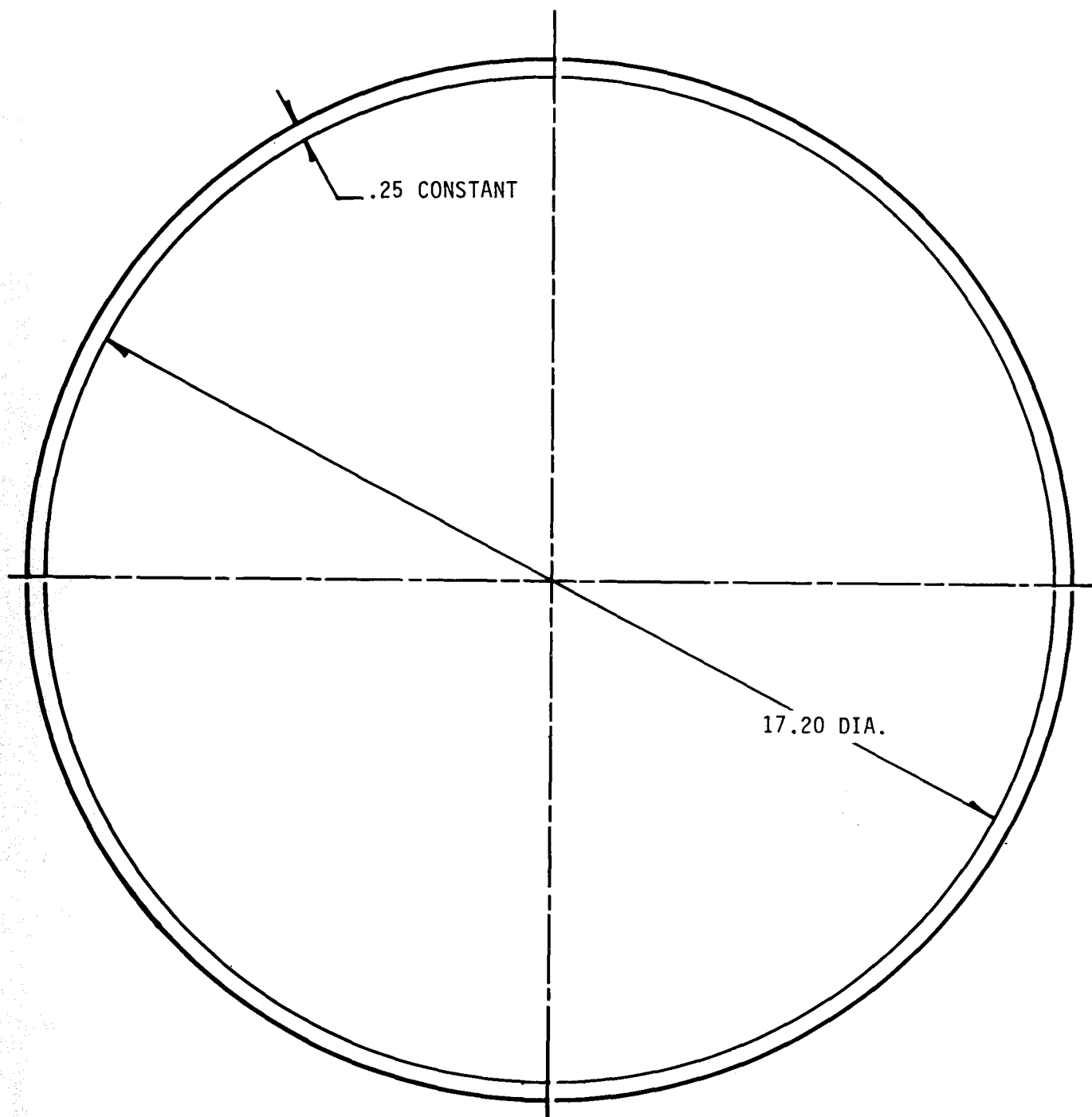


Figure D-344.1



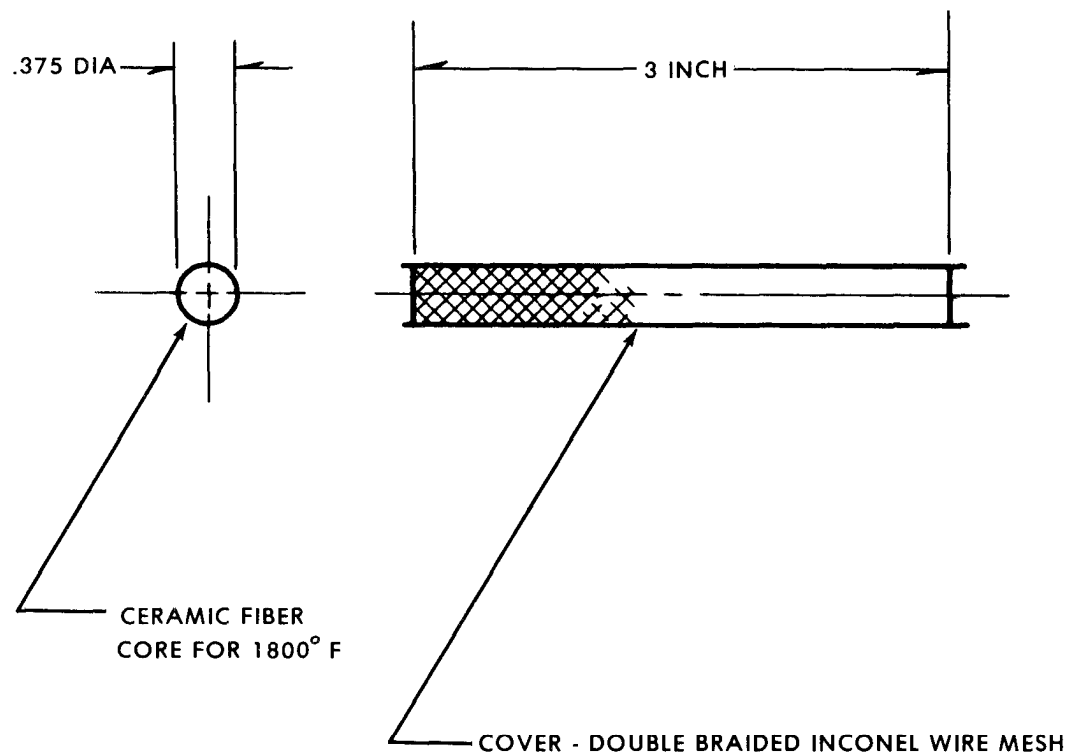
PART NUMBER: 209-030-224-17
FABRICATE FROM: NSN 9535-00-640-2311
MATERIAL: 2024, T3 ALUMINUM ALLOY

Figure D-345



PART NUMBER: 1560-AH1-081-68 GASKET
 FABRICATE FROM: NSN 5330-00-938-1719
 MATERIAL: JM STYLE 89 3/64 IN. THK.

Figure D-346

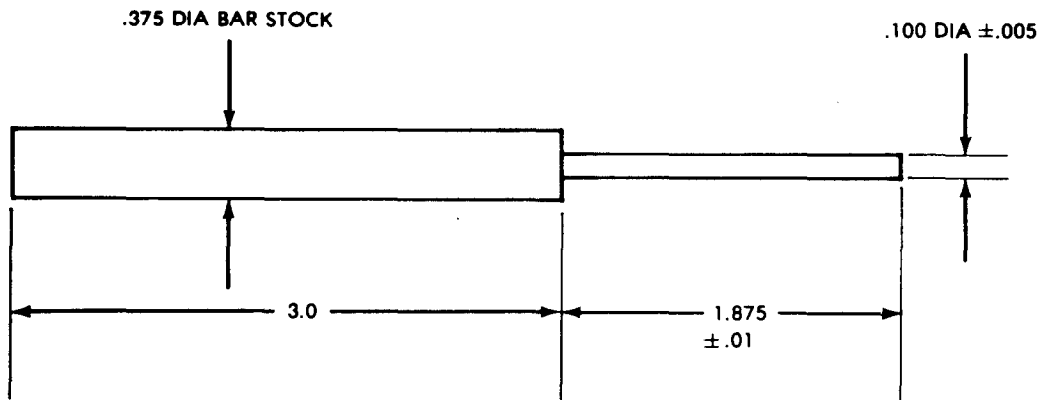


PART NUMBER: 193063-1 3 INCH

FABRICATE FROM: NSN 5330-01-162-0335

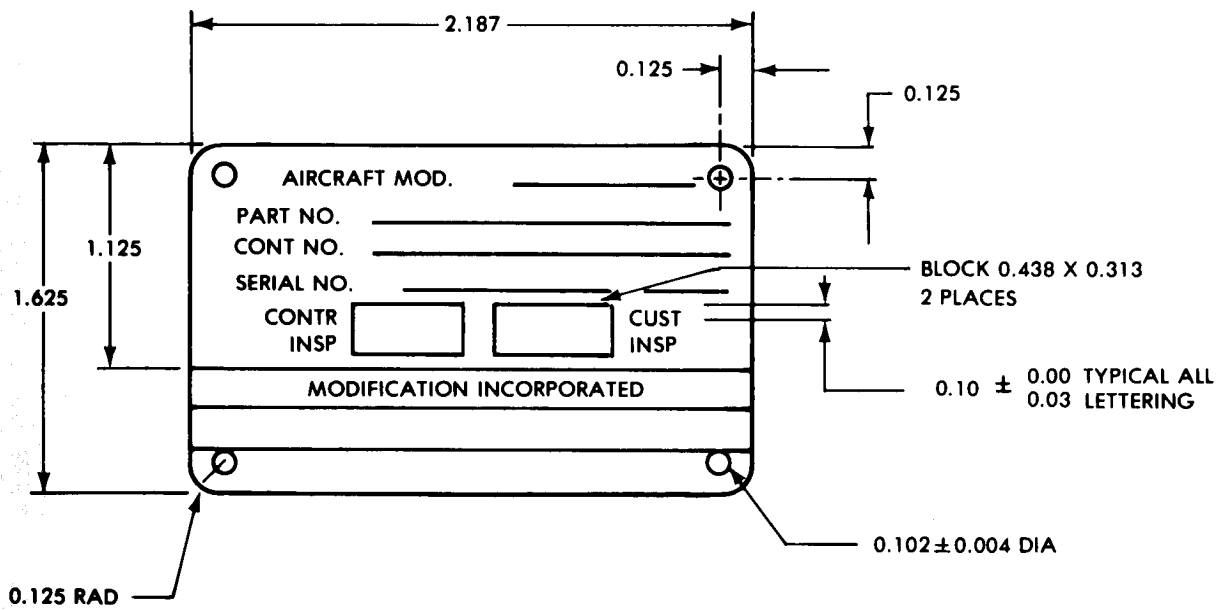
MATERIAL: SEAL HIGH TEMPERATURE

Figure D-347



PART NUMBER 5120-AH1-001 SWASHPLATE ALIGNMENT TOOL
 FABRICATE FROM NSN 9510-00-960-2463
 MATERIAL STEEL, ASTM A322, GRADE 4140

Figure D-348



PART NUMBER: MS27253-1 PLATE
FABRICATE FROM: NSN 9905-00-532-2497

Figure D-350

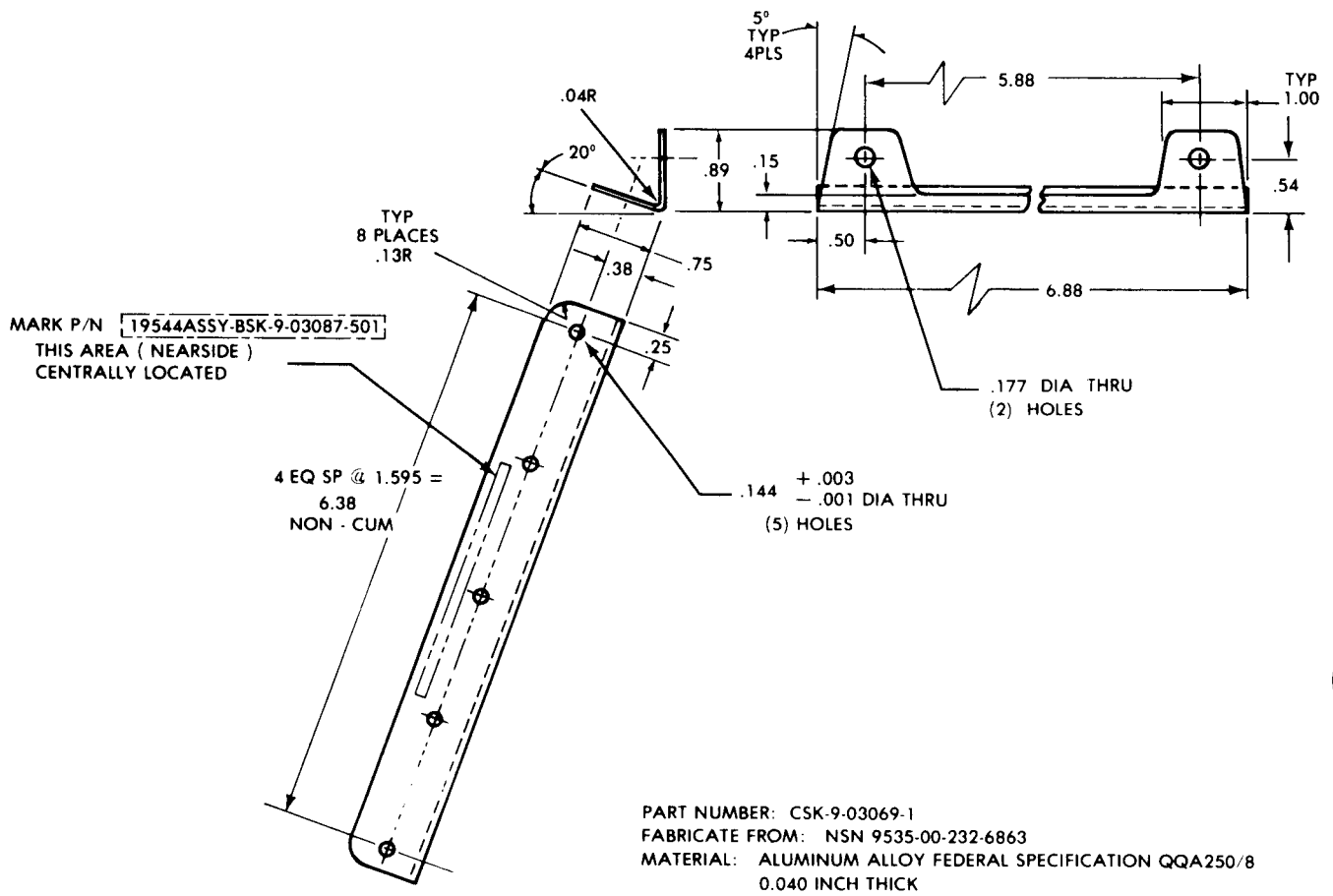
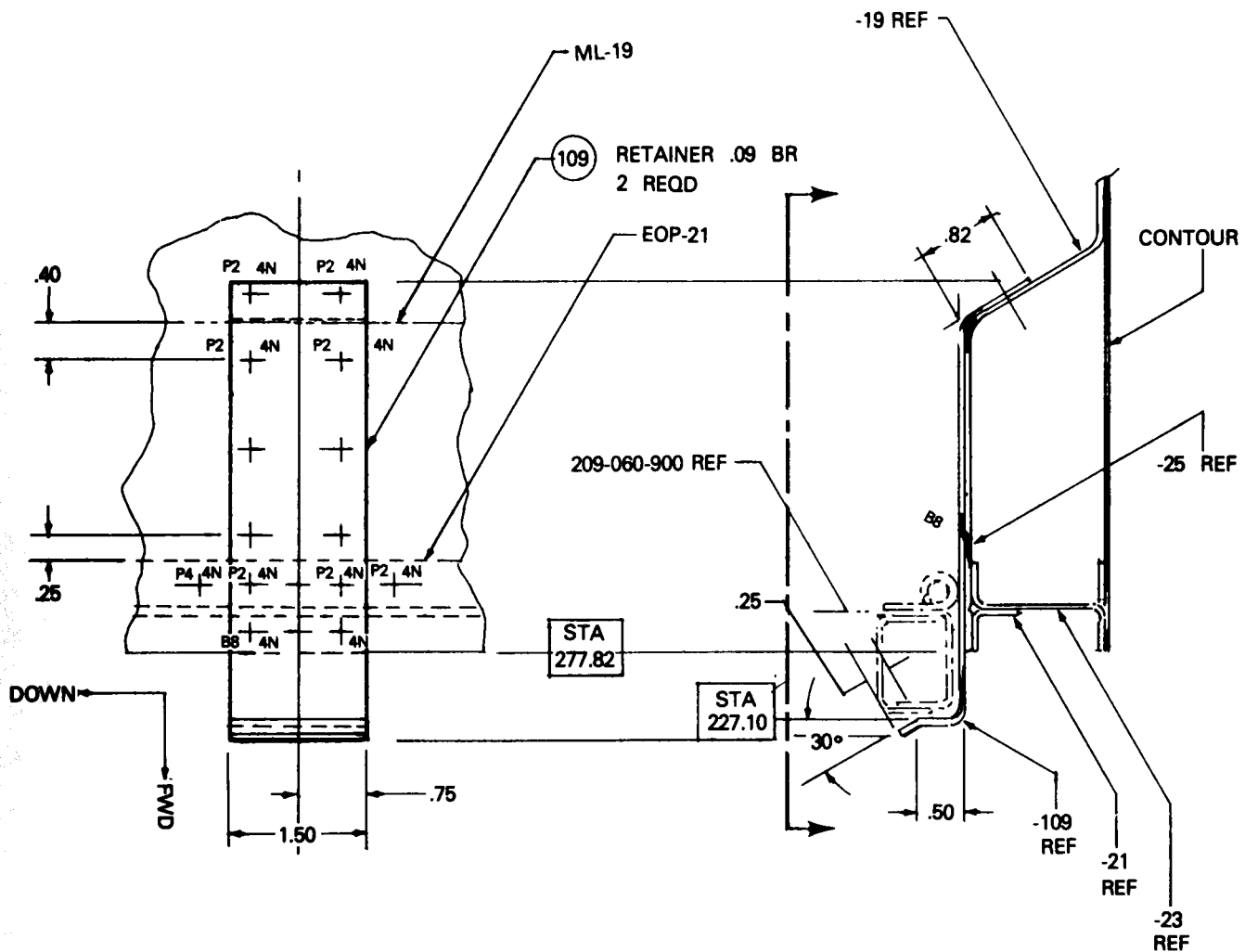
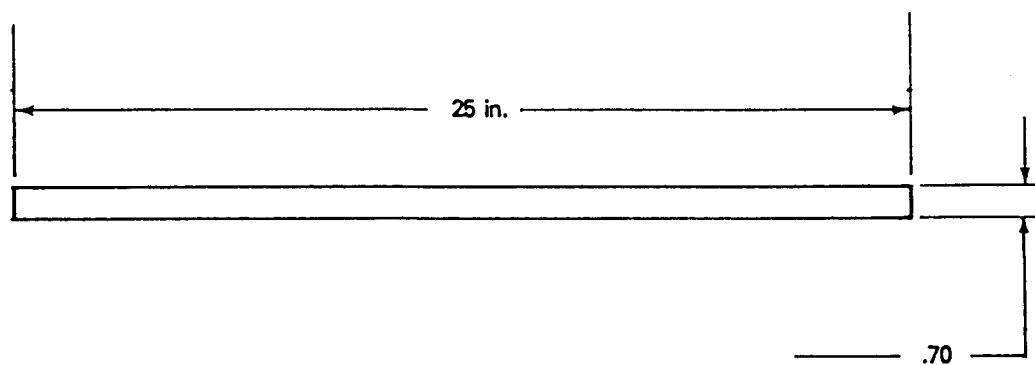


Figure D-351



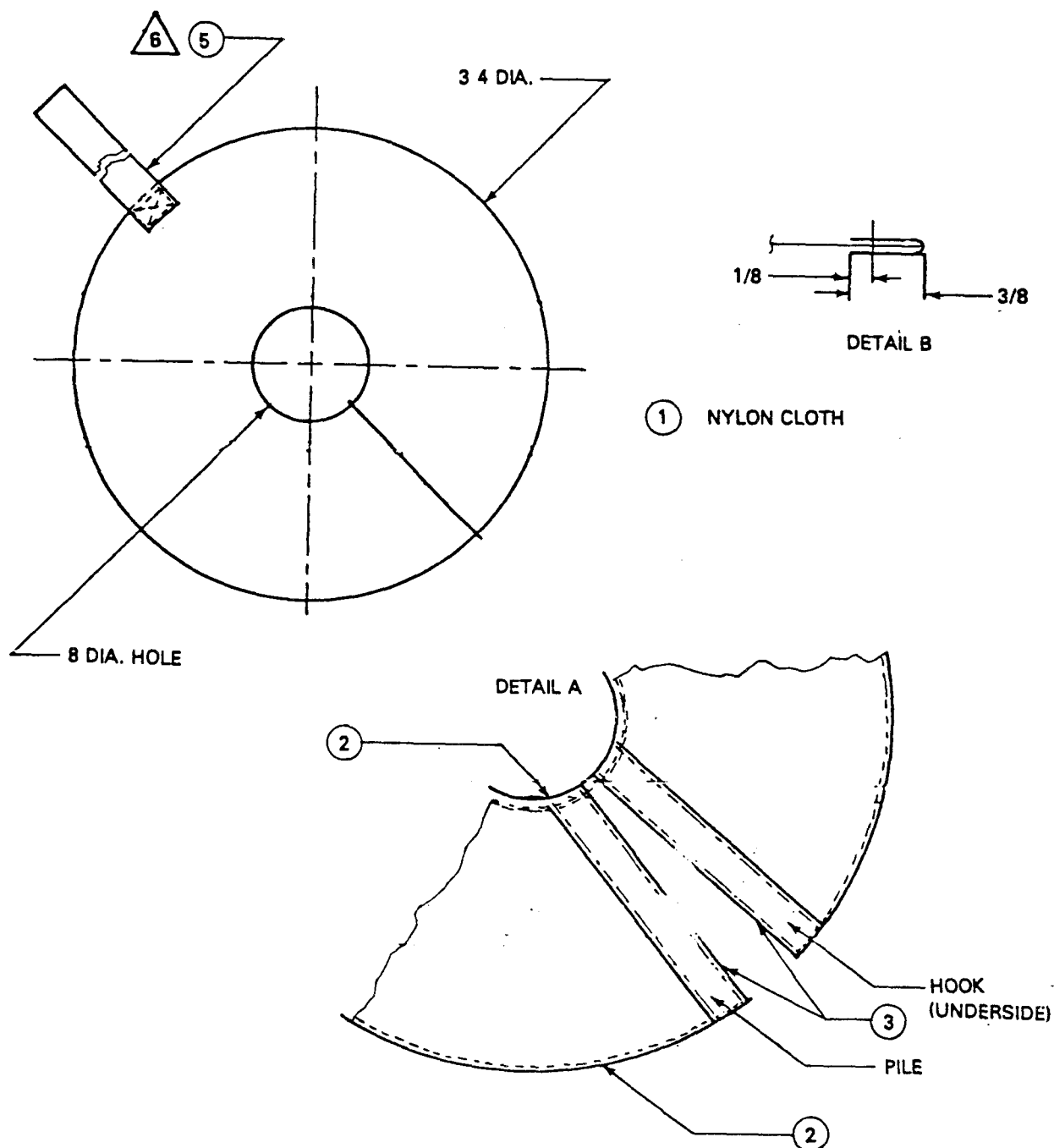
PART NUMBER: 209-060-809-109 RETAINER
 FABRICATE FROM: NSN 9535-00-554-1417
 MATERIAL: ALUMINUM ALLOY,
 2024 FEDERAL SPECIFICATION QQ-A-250/5,
 0.063 IN. THK.
 2 IN. WIDE,
 6.5 IN. LONG
 (HEAT TREAT TO T42)

Figure D-352



Part Number: 209-030-224-13 RUB STRIP
Fabricate from: NSN 9330-00-580-6886
Material: MIL-P-22241 Plastic Sheet

Figure D-353



Part Number: 1730-EG-026 Engine FOD Cover

Fabricate from: See Sheet 2

Material: See Sheet 2

Figure D-354 (Sheet 1 of 2)

NOTES :

1. Part number 1730-EG-026 Engine FOD Cover consists of the following:

1	8305-01-052-9381	MIL-C-20696, Type II, Class 2	Cloth, Nylon	1 sq yd
2	8305-00-432-8179	MIL-W-5664, Type II, 3/4 in. wide	Webbing, Textile, Elastic	2 yds
3	8315-00-926-4931	MIL-F-21840, Class 1, 2 in. wide	Fastener, Hook	15 in.
3	8315-00-926-4930	MIL-F-21840, Class 1, 2 in. wide	Fastener, Pile	15 in.
4	8310-00-204-3749	V-T-295, Type I, Class A	Thread, Nylon	As reqd
5	8345-01-137-4795	NAS-1756-12	Streamer, Warning	1

2. Sew velcro strip to 13 inch radial edge of cover as shown in detail A. Maintain 1/4 inch distance between stitching and edge of velcro strip.

3. Sew 56 inch strip of elastic around outer diameter as shown in detail A and B, gathering cover edge as necessary to fit.

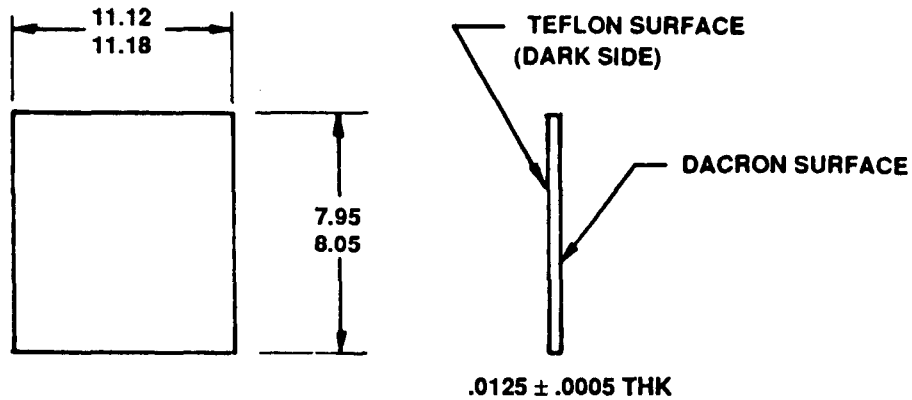
4. Sew 12-1/2 inch strip of elastic around inner diameter as shown in detail A and B, gathering cover edge as necessary to fit.

5. All sewing in accordance with FED-STD-171, Type 301.



Sew warning streamer to cover as indicated.

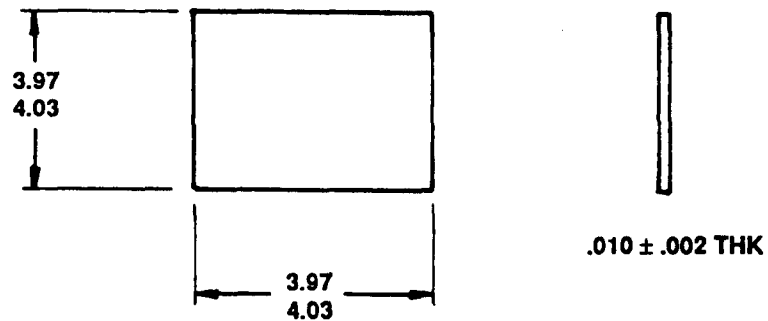
Figure D-354 (Sheet 2 of 2)



Part Number: 209-010-450-107 BUFFER
 Fabricate from: NSN 9330-01-337-3500
 Material: Nonmetallic Sheet

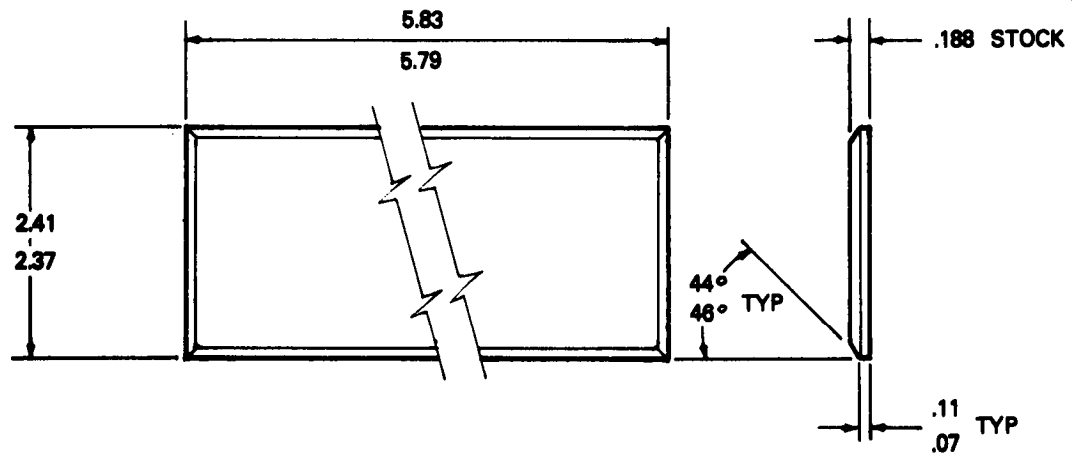


Figure D-355.1



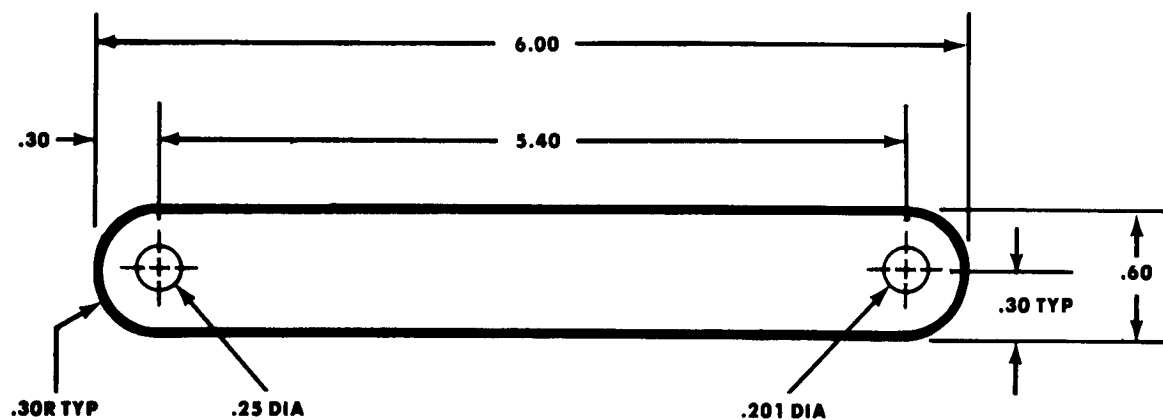
Part Number: 209-011-203-101
 Fabricate from: Part Number 150-045-1
 Material: Nonmetallic Sheet

Figure D-355.2



PART NUMBER: 192139-1 RUB STRIP
 FABRICATE FROM: NSN 9320-00-266-6848
 MATERIAL: RUBBER SHEET, SOLID

Figure D-355

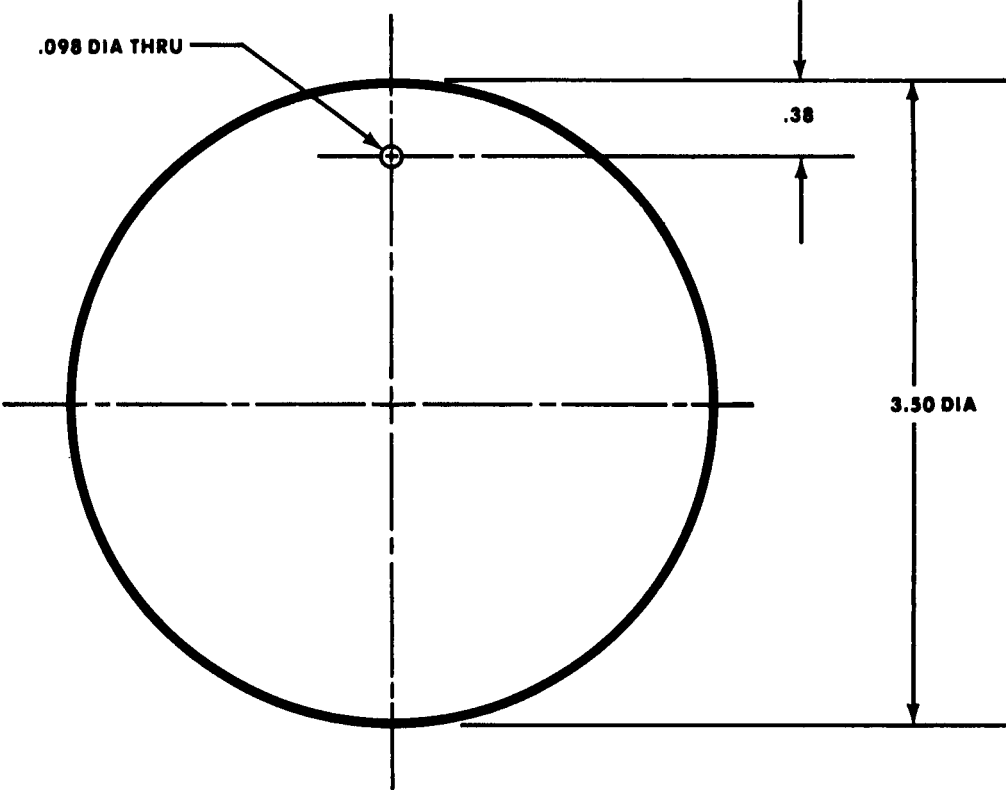


Part Number: BSK-9-02030-1 Strap, Bonding

Fabricate from: NSN 9535-00-185-2737

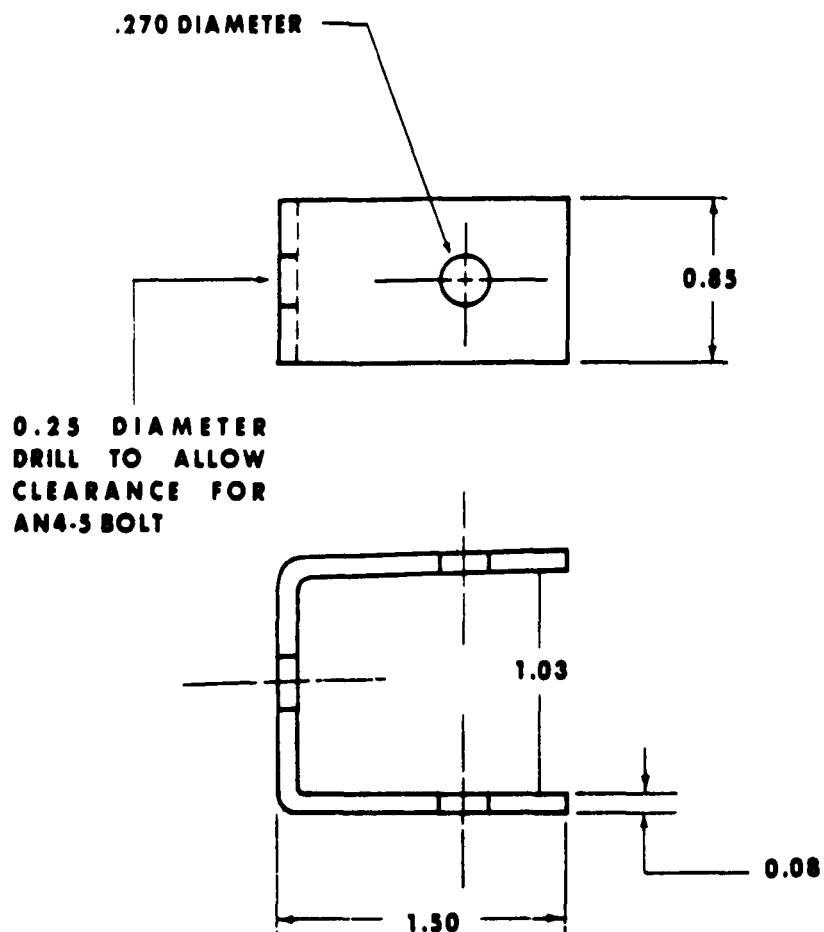
Material: Beryllium Copper 0.020 in. thick, QQ-C-533
Alloy No. 172, 1/4 hard, color No. 37038 (Black)
of FED-STD-595 conforming to MIL-STD-130

Figure D-357



Part Number:	BSK-9-02493-1 Plexiglass
Fabricate from:	NSN 9330-00-043-1845
Material:	Flexible acrylic 0.063 in. thick FED spec LP391

Figure D-358

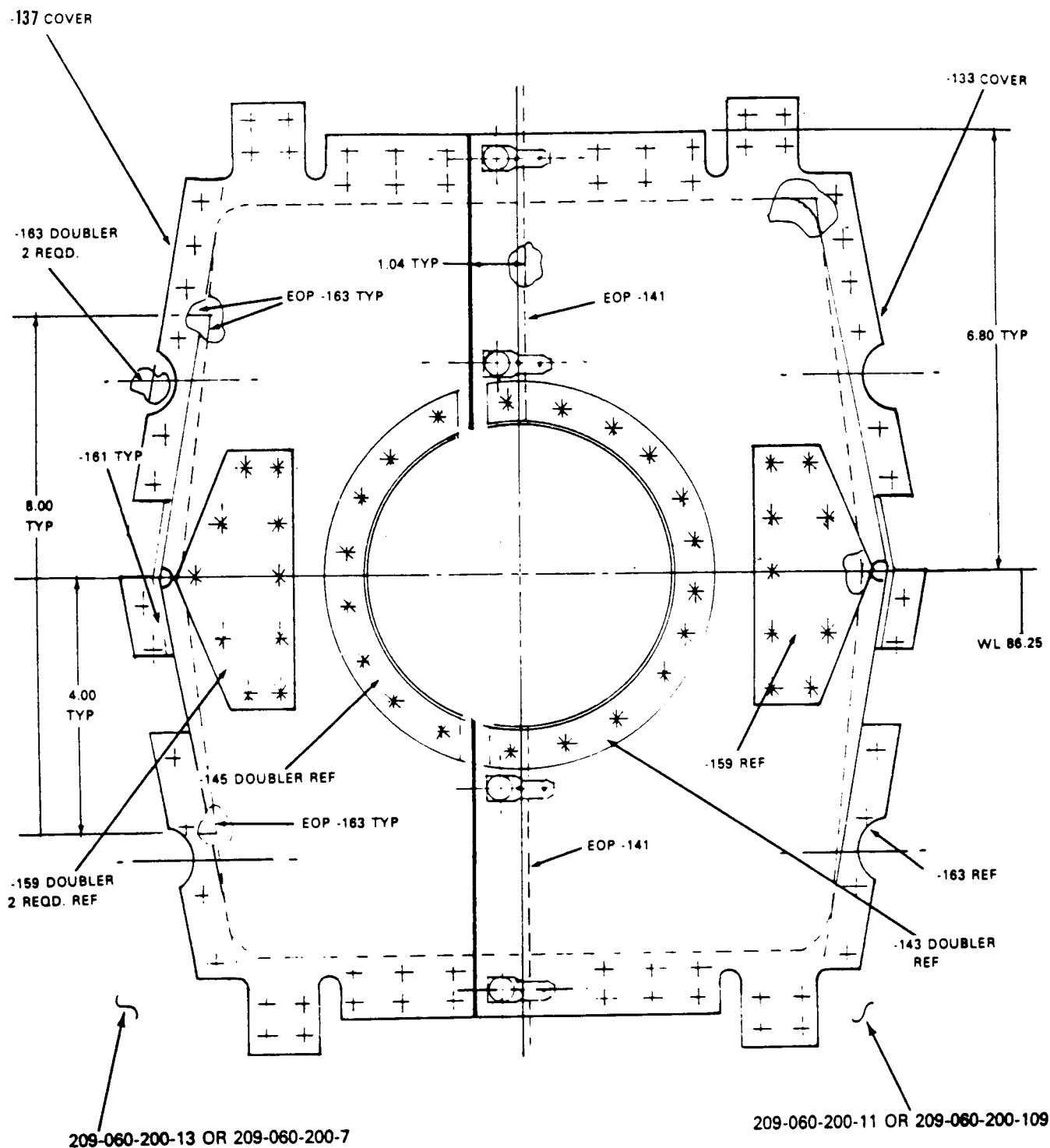


Part Number: EGD-0856-2, Bracket

Fabricate From: NSN 9515-00-006-2678

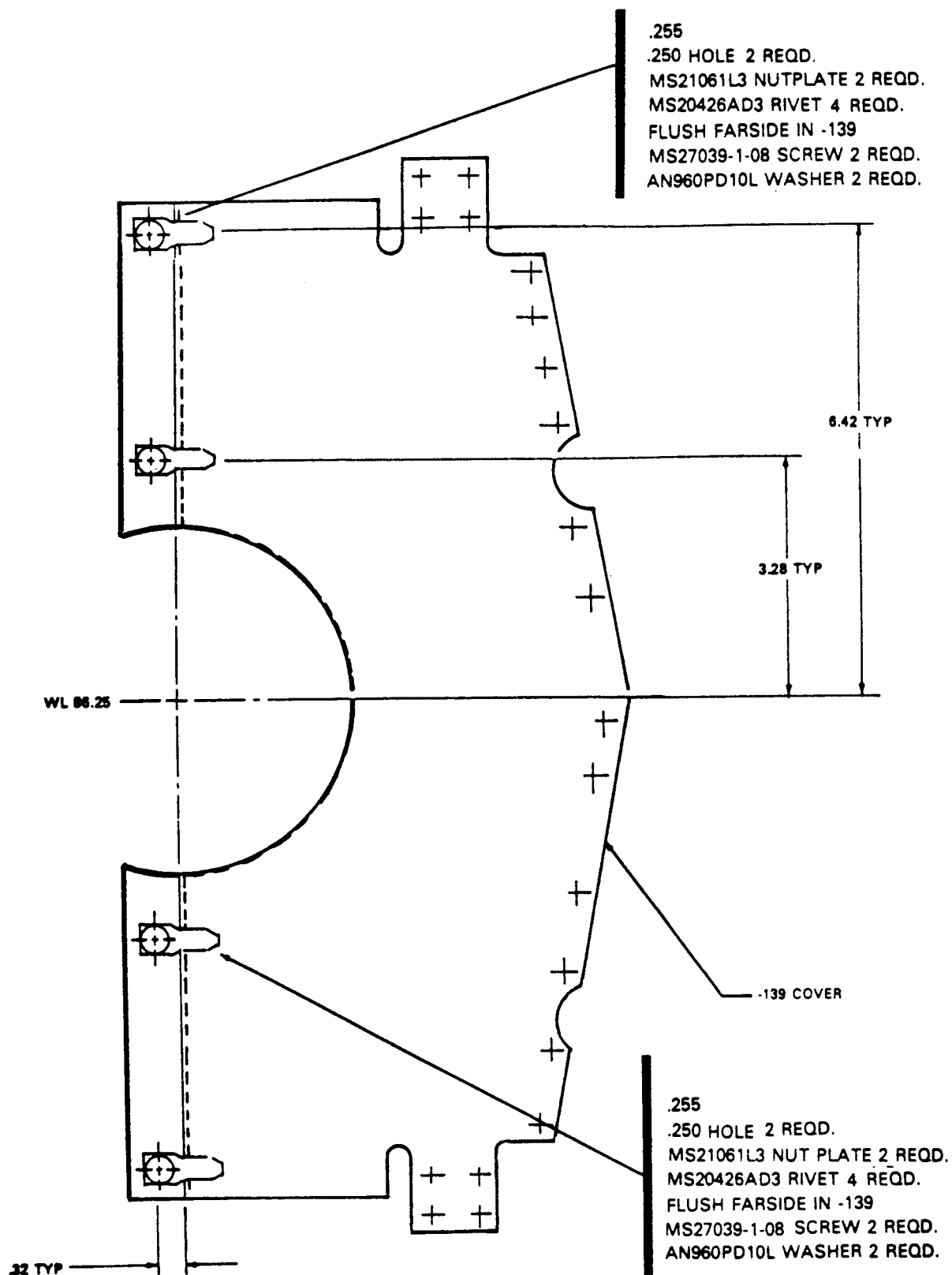
Material: MIL-S-5059 Stainless Steel
0.80 inch thick

Figure D-359



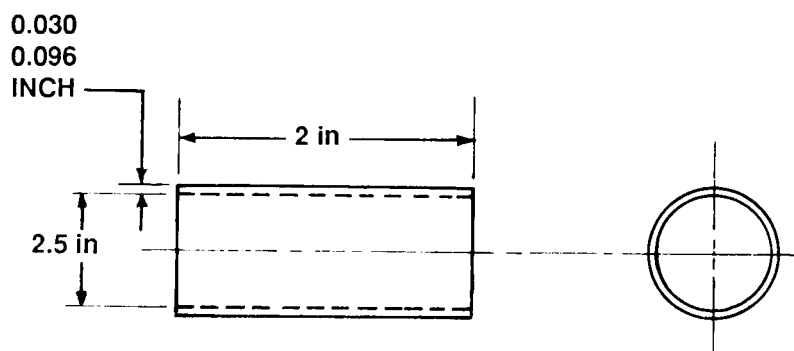
Part Number: 209-060-200-141 Cover
 Fabricate from: NSN 9535-00-086-9729
 Material: Al Alloy 2024, Fed Spec QQ-A250/5T3, 0.032 inch thick,
 7.5 inch wide, 14.6 inch long

Figure D-360



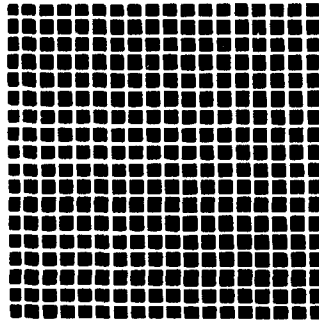
Part Number: 209-060-200-139 Cover
 Fabricate from: NSN 9535-00-086-9729
 Material: Al Alloy 2024, Fed Spec QQ-A250/5T3, 0.032 inch thick,
 8.4 inch wide, 14.6 inch long

Figure D-361



Part Number: NAS530-20-8
Fabricate from: NSN 4720-00-289-0717
Material: Flexible Low Pressure 450 degrees Hose

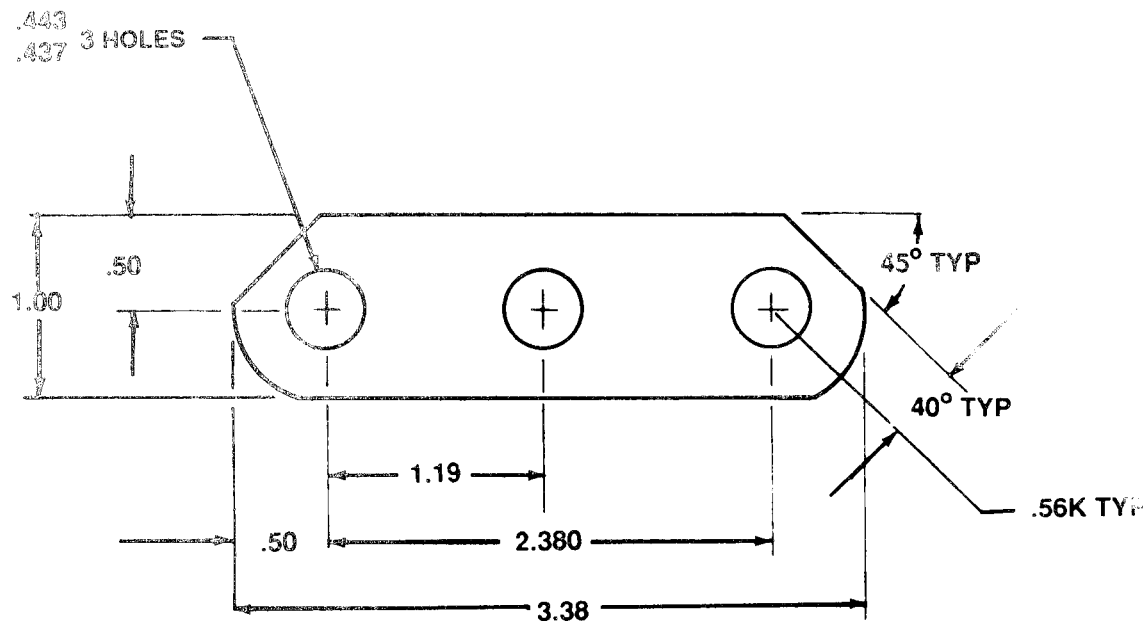
Figure D-362



(CUT TO FIT)

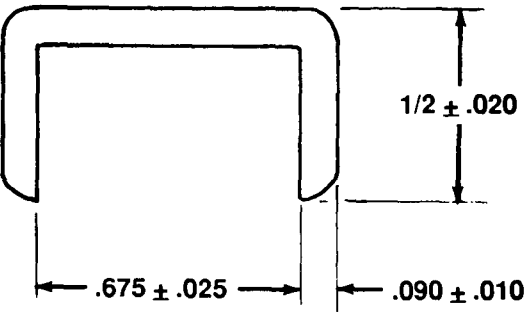
Part Number: 191652-17
191653-13
191654-35
191657-5
191657-9
Fabricate from: NSN 5335-00-231-1272
Material: RR-W-370, 4 X 4 MESH, COMP 304

Figure D-363



Part Number: 209-075-710-17 BUS BAR
Fabricate from: 9535-00-684-6055
Material: 1100 Aluminum Alloy
 Federal Specification QQ-A-250/1 To
 0.125 inch thick, 1.5 inch wide, 3.8 inch
 long

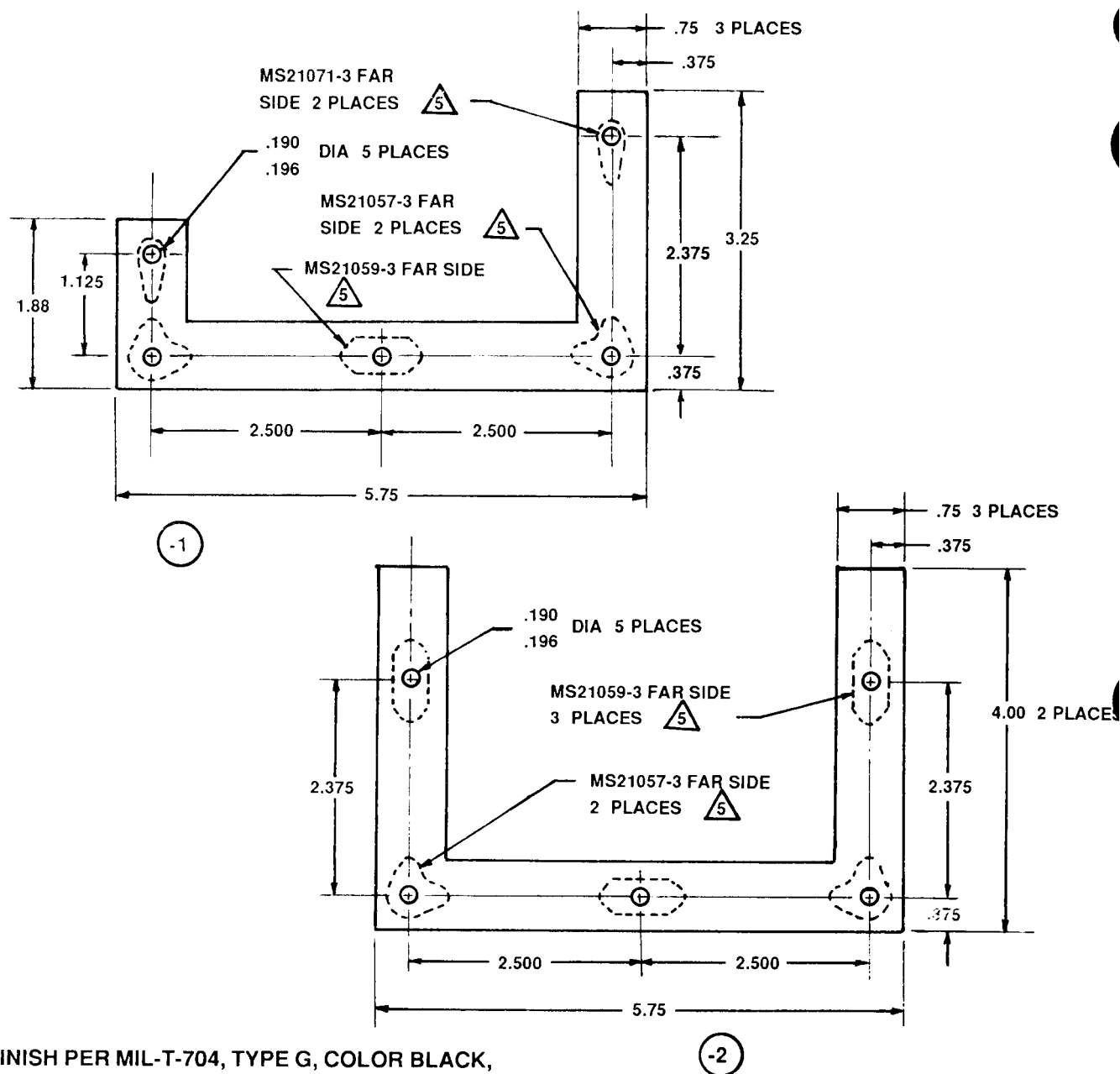
Figure D-364



PART NO	NOMENCLATURE	LENGTH
155129-1	RUBBER CHANNEL	19.5
155129-2	RUBBER CHANNEL	31.5
155129-3	RUBBER CHANNEL	21.0
155129-5	RUBBER CHANNEL	25.5
155129-6	RUBBER CHANNEL	9.5
155129-7	RUBBER CHANNEL	12.5

Part Number: 155129
Fabricate from: NSN 9390-01-118-2003
Material: Neoprene Channel
Federal Specification MIL-R-3065

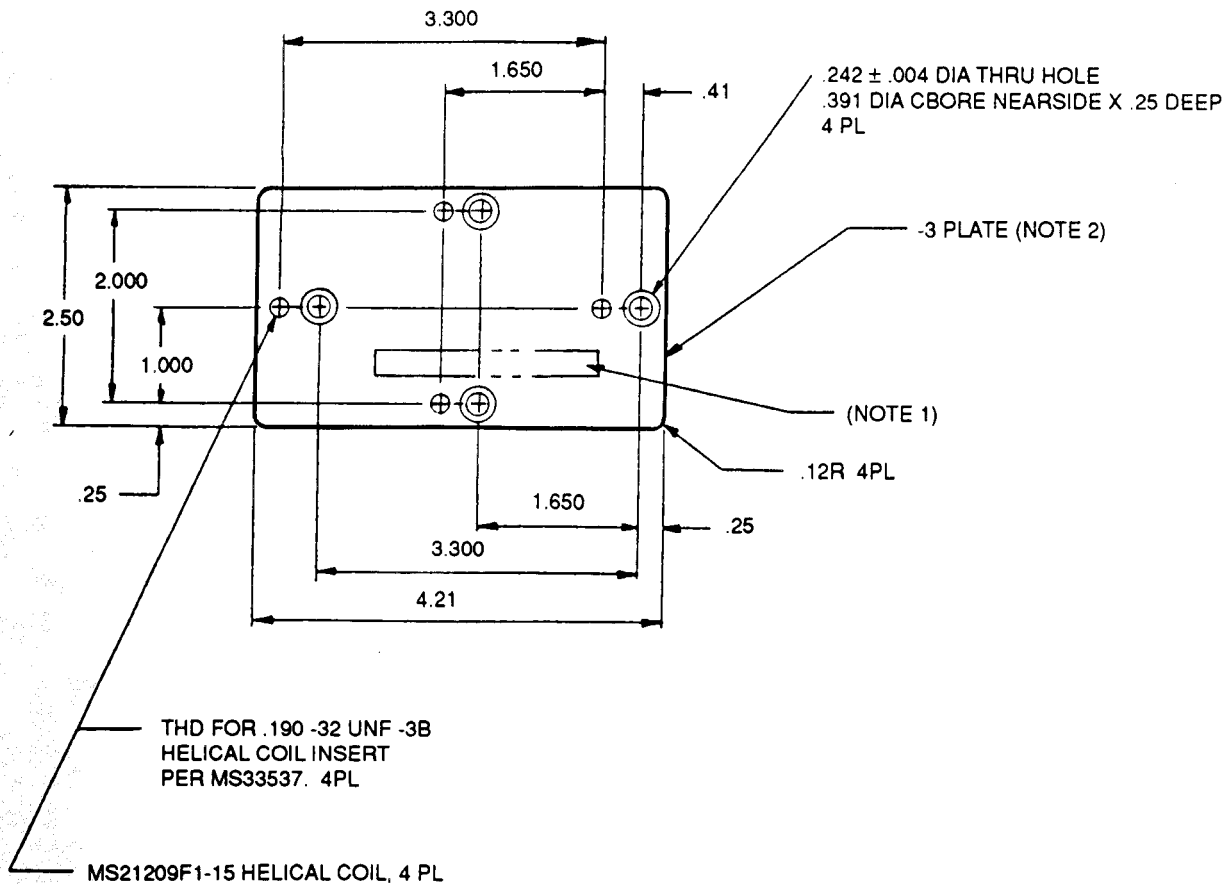
Figure D-365



FINISH PER MIL-T-704, TYPE G, COLOR BLACK,
NUMBER 37038 PER FED-STD-595

Part Number: 1560-AH1-301-1 DOUBLER
1560-AH1-301-2 DOUBLER
Fabricate from: NSN 9535-00-232-8825
Material: Aluminum Alloy, 2024, Federal
Specification QQ-A-250/4, 0.063 in thk.
4.25 in wide, 6.0 in long

Figure D-366



PART NUMBER: 07-42001-1 PLATE ASSEMBLY

FABRICATE FROM: NSN 9535

MATERIAL: 07-42001-3 PLATE, 2024-T351 ALUMINUM ALLOY PLATE
FEDERAL SPECIFICATION QQ-A-250/4 0.380 INCH THICK

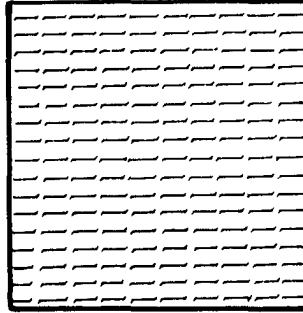
MS33537 HELICAL COIL INSERT

MS21209F1-15 HELICAL COIL

NOTE

1. RUBBER STAMP PART NO. 07-42001-1 COLOR (BLK) PER MIL-STD-130.
2. SURFACE CONVERSION PER MIL-C-5541, CLIA. EPOXY PRIME PER MIL-P-23377.

Figure D-367



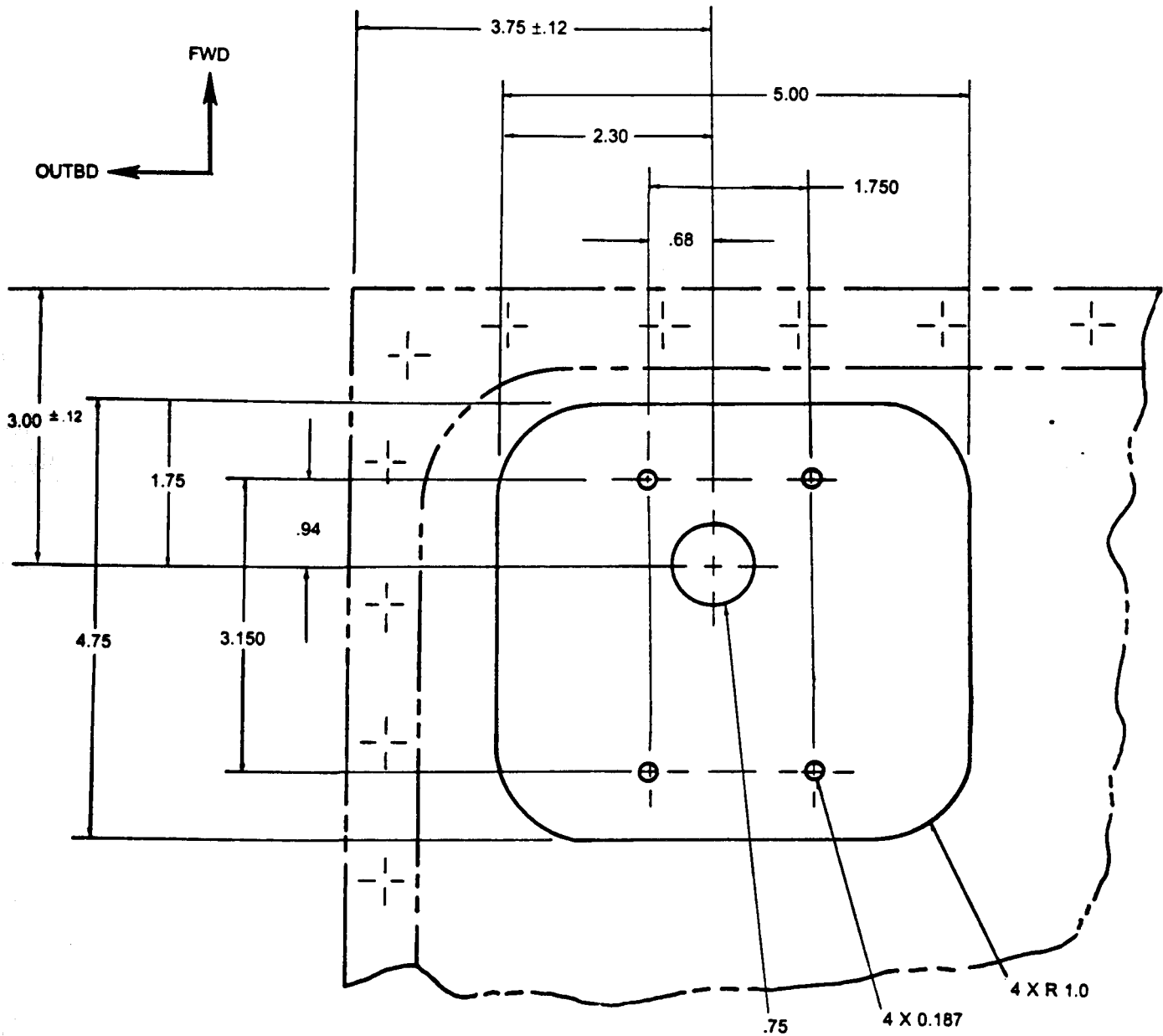
(CUT TO FIT)

PART NUMBER: 191654-13
191654-15 (2 THICKNESS REQUIRED)
191654-17
191654-19

FABRICATE FROM: 9320-01-023-6276

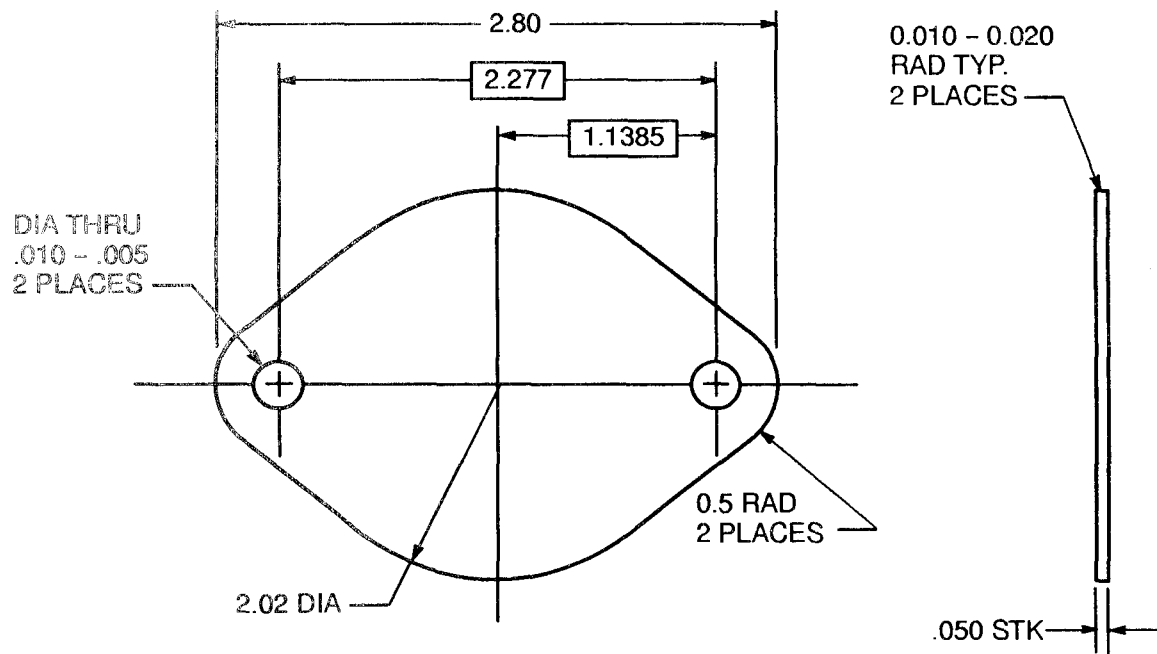
MATERIAL: SILICON RUBBER ZZ-R-765, CL3B,
GR70, .031 THK

Figure D-368



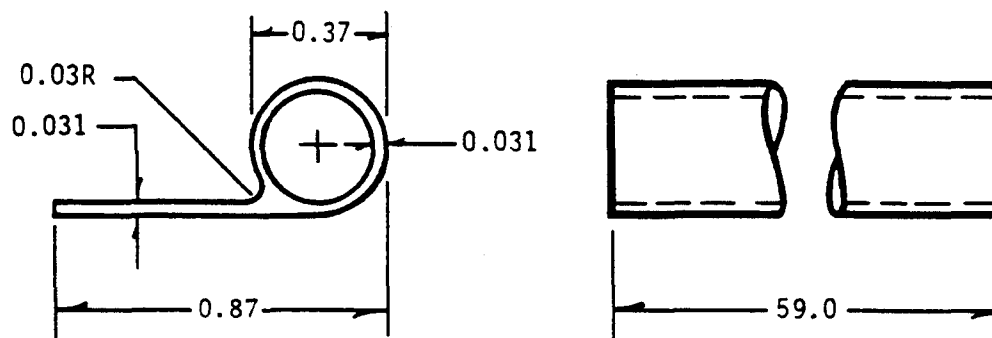
Fabricate from: 13N207B Laminate
 Material: Nylon, Natural
 No Military Specification

FIGURE D-369



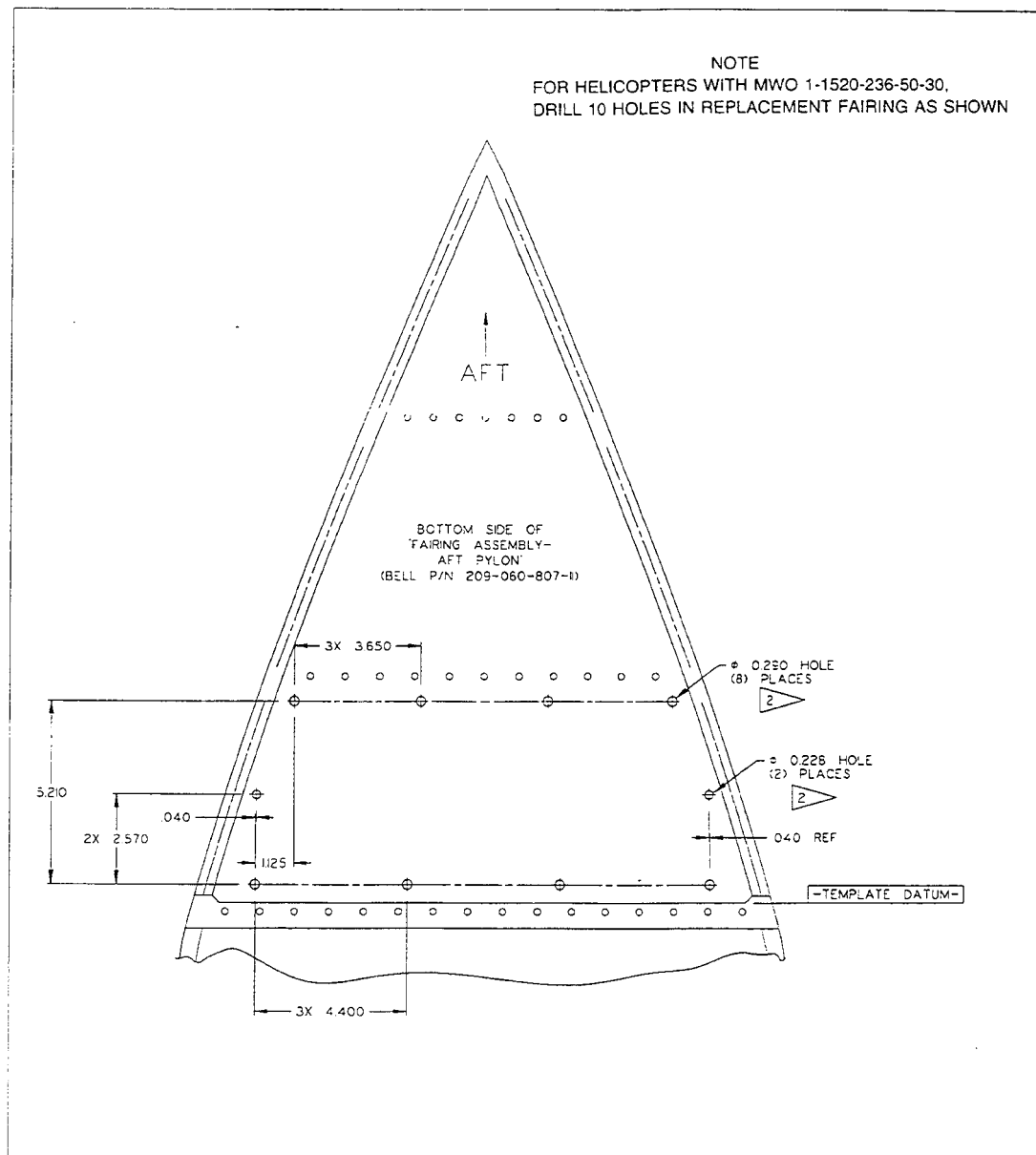
Part Number:	ME101
Fabricate from:	NSN 9535-00-232-0569
Material:	Aluminum Alloy, 2024, Federal Specification QQ-A-250/5, T3, 0.050 in. thk, 2.5 in. wide, 3.0 in. long

Figure D-370



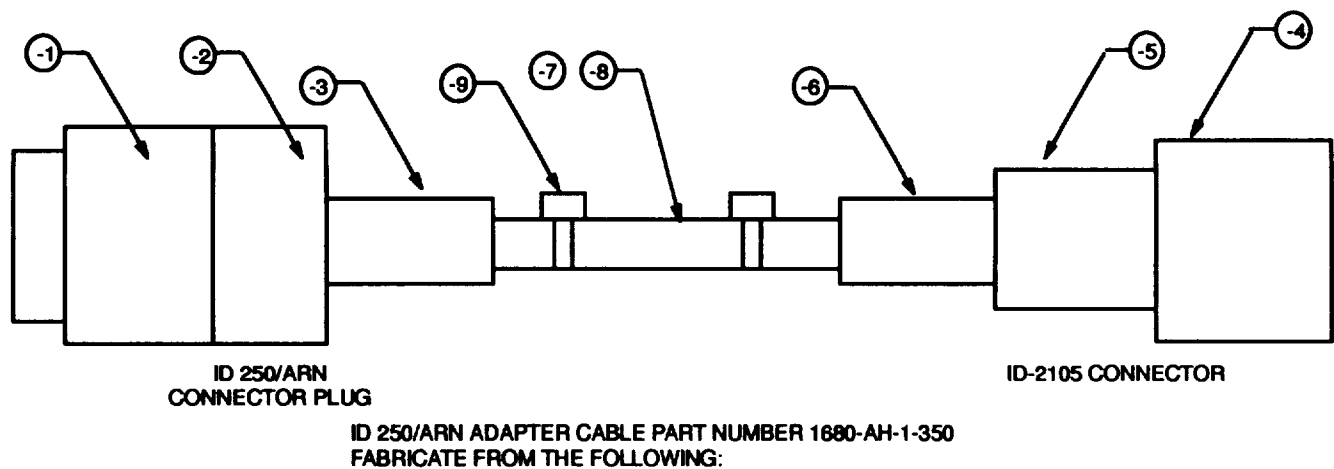
Part number:	209-060-525-15 Rubber Extrusion
Fabricate from:	NSN 9390-00-027-3340
Material:	Synthetic: MIL-R-6855
	Class I, Grade 60

Figure D-371



Part Number: 601826
Fabricate from P/N 209-060-807-11

Figure D-372. Modified Aft Engine Fairing 601826
(MWO 1-1520-236-50-30)



	PART NUMBER	NOMENCLATURE	QTY
-1	MS3106A22-14	CONNECTOR PLUG	1
-2	511419-19 (FSCM 73030)	BACKSHELL	1
-3	MS3420-10	CONNECTOR BUSHING	1
-4	MS3124F14-19PX	CONNECTOR	1
-5	MS3417-14	BACKSHELL	1
-6	MS3420-12	CONNECTOR BUSHING	1
-7	M22759/16-20	WIRE, 20 AWG	A/R
-8	M22759/16-22	WIRE, 22 AWG	A/R
-9	M3367	STRAP, TIEDOWN	A/R

NOTES:

1. Wiring connections to be in accordance with below. Wire length 8 inches. Wire gauge is required to be in accordance with below, however, wire color may be substituted if correct color is not available. Wires should be marked as shown below, however, marking of wires is not required if equipment to ID is not available.
2. Tiedown straps should be used as required.
3. Verify proper wiring connections by performing a continuity check between the appropriate pins of below.

ID 2105/ARN CONNECTOR

ID 250/ARN CONNECTOR

B	ASN128-1B22 (WHT)	B
C	ASN128-1B22 (BLU)	C
E	ASN128-1B22 (ORN)	E
V	ASN128-14B22 (WHT)	V
D	ASN128-14B22 (BLU)	D
N	ARN89-15B22	N
P	ARN89-10B22	P
M	ARN89-6D22	M
L	ARN89-9B22	L
T	ARN123-20D22 (WHT)	T
U	ARN123-20D22 (BLU)	U
R	ARN123-20D22 (ORN)	R
S	ARN123-41E20	S
H	ASN43-31A20 TO EYEBROW LIGHT	
K	ASN43-32A20 TIE OFF	

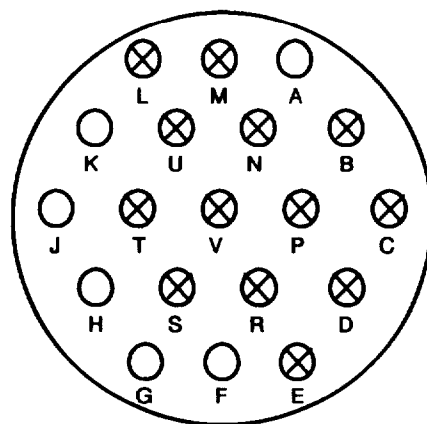


Figure D-373

APPENDIX E

STORAGE OF AIRCRAFT

SECTION I. GENERAL INFORMATION

E-1. PURPOSE.

This appendix provide detailed preparation procedures to place helicopter in storage for a period of six months or less, inspection requirements during storage, and necessary depreservation procedures to activate the helicopter after storage.

E-2. COMPONENTS INVOLVED IN AN ACCIDENT.

Any component removed for reason of accident shall not be preserved but shall be shipped in the same condition as it was in after the accident (AR 95-5).

E-3. CATEGORIES OF STORAGE.

a. Flyable Storage (on time limit). Flying storage implies maintaining the helicopter in operable condition. It entails mooring the helicopter, installing protective covers, a daily inspection every seven days, and an engine ground run-up every 14 days.

b. Short Term Storage (1-45 days). This type storage includes a ground run-up, preservation of the engine, fuel system, oil system, and exposed helicopter components. It also requires removal of classified communications equipment, clocks fire extinguishers, and first aid kit. The helicopter is moored, protective covers installed, and a daily inspection performed every seven days.

c. Intermediate Storage (46-180 days). Intermediate storage includes all requirements of Short Term Storage. In addition, the fuel system is preserved and a corrosion control program established.

d. Storage of aircraft undergoing maintenance (no time limit). This category of maintenance will include general requirements of storage of aircraft undergoing any maintenance action which causes the aircraft to be inactive for more than seven days. Due to the wide range of maintenance actions that may create this situation. Some storage procedures will not be required and a degree of latitude is given to the local maintenance officer on the storage measures needed for the particular situation. The seven day limit is a guideline and variances are allowed at the discretion of the maintenance officer.

E-4. STORAGE RESPONSIBILITY.

The local maintenance officer is responsible for processing the helicopter for storage.

a. Selection of Storage Category. The following should be considered when selecting a storage category:

- (1) Duration of storage.
- (2) Local climate condition.
- (3) Ground operation.
- (4) Motoring or engine.
- (5) Mooring facilities.
- (6) Personnel and materials required during maintenance and inspection during storage.

b. Records. The processing organization is responsible for performing a receiving check of the helicopter, and for record-keeping requirements during storage. Refer to DA PAM 738-751, for forms used for equipment inventory.

c. Removed Equipment. Equipment and components removed from the helicopter as part of storage procedures shall be stored, and records maintained in accordance with current supply directives.

NOTE

Do not preserve any component removed because of accident or material failure. Rather, ship in present condition.

d. Classified Equipment. Removal of classified equipment other than communication equipment is discretionary with the Commanding Officer. His decision will consider local storage procedures, climatic conditions affecting deterioration of corrosion and man-hours required to remove and reinstall such equipment. Take appropriate security measures for all classified equipment either removed or left installed.

E-5. INSPECTION OF STORED HELICOPTER.

The aviation unit maintenance officer is responsible for establishing an inspection program to ensure that the helicopter remains properly preserved. Helicopters in flyable storage require a daily inspection every seven days, and an engine inn-up every 14 days. Helicopters in short term or intermediate storage will be inspected for corrosion every 15 days where relative humidity exceeds 40 percent. Helicopters in any storage will be inspected for condition of protective covers whenever they experience high winds (exceeding 40 mph). In addition, the following general inspection procedures apply to all types of storage:

- a. Provide adequate helicopter ventilation and preservation. Determine cockpit temperature by thermometer. When in excess of 135 degrees F (57 degrees C), ventilate to prevent condensation, mildew and corrosion.
- b. Check that all helicopter fuselage drains are open.
- c. If covers are used, check that they are not accumulating water. Provide drains as necessary. Replace damaged or deteriorated covers.

d. Regularly inspect and treat the helicopter for corrosion as necessary. Local humidity conditions will determine inspection frequency. Give dose attention to areas where moisture does not evaporate readily. Evidence of corrosion is not as obvious on painted surfaces as on bare metal. However, corrosion can attack metal through paint, and is indicated by blisters or scaly appearance.

e. Inspect static ground wires, tiedown straps, and mooring devices (ropes, cables, rods, eyes) at regular intervals, and immediately after helicopter is subjected to winds exceeding 40 mph. Replace ground wires, mooring devices or tiedown straps which are deformed or deteriorated.

f. Inspect communications equipment for fungus and corrosion. At the first indication of deterioration, remove, dean, preserve, and package any affected component in accordance with MIL-P-116. Stow these items in the helicopter from which removed.

g. Enter inspection data in the helicopter records (DA PAM 738-751).

SECTION II. FLYABLE STORAGE

E-6. INSPECTION PRIOR TO FLYABLE STORAGE.

Helicopters in this storage category will be maintained in a serviceable condition. Perform a Daily Inspection (TM 55-1500-220-PMD) prior to performing the requirements of the following paragraphs. Enter the type and date of storage in the helicopter records (DA PAM 738-751).

NOTE

General requirements In Section I form a part of this procedure.

E-7. PRESERVATION — FLYABLE STORAGE.

a. Power Train.

(1) Check the power train lubrication system, including sight gages. Service the system in accordance with paragraphs 1-5, 1-6, 1-7, and 1-28.

(2) The preservation engine runup described in paragraph E-7 b. completes the preservation of transmission and gearboxes.

b. Engine.

WARNING

Cleaning solvent is flammable and toxic provide adequate ventilation. Avoid prolonged breathing of solvent vapors and contact with skin or eyes.

(1) Use every precaution to keep the engine and accessories clean. Keep the air intake duct, plenum chamber, and compressor inlet screens clean and free of all foreign materials. Use solvent (C112) to clean external surfaces.

(2) Start engine in accordance with TM 55-1520-236-10.

NOTE

This runup may be omitted if the helicopter was recently operated and known to be dry.

(3) Limit the run to that necessary to normalize engine temperatures.

(4) Shut down engine in accordance with TM 55-1520-236-10.

(5) **P E** After engine cools, install engine inlet and exhaust protective covers. If these are not available seal the opening with barrier material (C23) and secure with tape (C127).

(6) **M** After engine cools, install engine inlet and IR suppressor protective covers. If these are not available, seal the opening with barrier material (C23) and secure with tape (C127).

(7) Cover additional engine cowling openings with barrier material (C23) and secure with tape (C127).

(8) **M** Cover additional IR suppressor cowling openings with barrier material (C23) and secure with tape (C127).

(9) Record the date engines are placed in flyable storage in the helicopter records (DA PAM 738-751).

c. Hydraulic System.

CAUTION

Do not mix hydraulic fluid (C62) with fire resistant hydraulic fluid (C61). Refer to TB 55-1500-334-25.

Check hydraulic reservoirs, and fill as necessary with hydraulic fluid (C61 or C62).

d. Fuel System.

Service fuel tanks to normal capacity after each engine runup. Drain water from fuel tanks before adding fuel.

NOTE

Full tanks minimize fuel contamination by condensation. The maintenance officer will determine the Interval of periodic drainage.

e. Battery.

(1) Check that all cockpit switches are OFF.

(2) Clean battery as necessary, but leave it in the helicopter unless the temperature is expected to be colder than -40 degrees F (-40 degrees C).

(3) Service battery in accordance with TM 11-6140-203-14-2.

f. Airframe.

(1) Install pitot tube cover, or wrap pitot tube with barrier material (C23) and secure with tape (C127).

(2) **M** Install airspeed sensor protective cover.

(3) Close canopy.

(4) Install ground static wire.

(5) Install helicopter covers, if available, in accordance with instructions accompanying covers.

E-8 MAINTENANCE – FLYABLE STORAGE.

a. Inspect helicopters in flyable storage in accordance with local directives and requirements of paragraph E-5.

b. Perform a preventive maintenance daily inspection in accordance with TM 55-1500-220-PMD every seven days and an engine runup at least once every 14 days.

E-9. DEPRESERVATION — FLYABLE STORAGE.

a. Remove protective covers, clean, and return to storage.

WARNING

Cleaning solvent is flammable and toxic. Provide adequate ventilation. Avoid prolonged breathing of advent vapors and contact with skin or eyes.

- b. Remove all barrier material and tape. Remove tape residue with solvent (C112).
- c. Clean helicopter as necessary, in accordance with paragraph 1-11.

- d. Open canopy for ventilation.
- e. Remove all tiedowns.
- f. Perform preventive maintenance daily inspection in accordance with TM 55-1500-220-PMD.
- g. Remove and stow static ground wire.
- h. Indicate on helicopter records (TM 33-750) that it has been depreserved and removed from storage.

SECTION III. SHORT TERM STORAGE

E-10. INSPECTION PRIOR TO SHORT TERM STORAGE.

NOTE

General requirements of Section I form a part of this procedure.

- a. Ensure that all removed components are preserved and stowed within the helicopter in suitable containers. Refer to paragraphs E-4 c and d.
- b. Record all removed or disconnected parts in helicopter records (TM 38-750).
- c. Coat bolts, washers, nuts, etc., which are removed during disassembly, with a light coat of corrosion preventive compound (C43). Reinstall as removed from the major component, unless otherwise specified.
- d. Check fuel, oil, and hydraulic lines and hoses for leakage.
- e. Lubricate the helicopter in accordance with Lubrication Instructions, paragraph 1-29.

- f. Record the date and type of storage in the helicopter records (TM 38-750).

E-11. PRESERVATION — SHORT TERM STORAGE.

- a. Power Train.

WARNING

Cleaning advent is flammable and toxic. Provide adequate ventilation. Avoid prolonged breathing of solvent vapors and contact with skin or eyes.

- (1) Clean exposed metal surfaces with a dean cloth dampened with solvent (C112). Coat with corrosion preventive compound (C43).
- (2) Deleted.
- (3) Check power train lubrication levels, including sight gages and service in accordance with paragraph 1-7.
- (4) Deleted.
- (5) Deleted.

(6) Cover breather hales in transmission and gearboxes with barrier material (C23) and secure with tape (C127). This completes preservation of the transmission and gearbox.

(7) If engine is inoperable, preserve power train as follows:

(a) Remove main rotor blades in accordance with paragraph 5-18.

(b) Remove mast assembly in accordance with paragraph 6-69.

(c) Spray inside of transmission through top opening with one gallon of oil (C80). While spraying, manually rotate internal gears and bearings with input drive quill.

(d) Reinstall mast assembly in accordance with paragraph 6-73.

WARNING

Cleaning advent is flammable and toxic. Provide adequate ventilation. Avoid prolonged breathing of solvent vapors and contact with skin or eyes

(e) Apply fingerprint remover (C44.2) to all unpainted surfaces of mast assembly. Remove residue with solvent (C112) on a dean lint-free cloth.

(f) Apply corrosion preventive compound (C43) to all unpainted surfaces.

(g) Reinstall main rotor in accordance with paragraph 5-22.

(h) Ensure that intermediate and tail rotor gearboxes are filled with oil (C79 or C80) to the proper operating level.

(i) Cover breather holes in transmission and gearboxes with barrier material (C23) and secure with tape (C127).

b. Operable Engine.

WARNING

Cleaning advent is flammable and toxic. Provide adequate ventilation. Avoid prolonged breathing of advent vapors and contact with skin or eyes.

(1) Use every precaution to keep the engine and its accessories dean. Keep the air intake ducts, plenum chambers, and compressor inlet screens dean and free of any foreign material. Use solvent (C112) for external cleaning.

(2) Check oil level; service as necessary in accordance with paragraph 1-4. Remove any lubricating oil spilled on painted surfaces with a dean cloth dampened with solvent (C112).

CAUTION

To prevent accidental firing of the engine, ensure that ignition system circuit breaker is OPEN (pulled out).

(3) Open ignition system circuit breaker and secure red tag stating: DO NOT CLOSE.

WARNING

Cleaning advent is flammable and toxic. Provide adequate ventilation. Avoid prolonged breathing of advent vapors and contact with skin or eyes.

(4) Remove fuel inlet strainer and pump discharge strainer from fuel control. Clean with solvent (C112); reinstall.

(5) Disconnect main fuel hose from inlet side of starting fuel solenoid valve and from main fuel flow divider at fuel control.

(6) Install temporary lines on ends of hoses to allow drainage into a suitable container.

(7) Connect hose from a source of oil (C77) to fuel control inlet fitting.

(8) When engine has cooled enough to prevent auto-ignition, set throttle arm to IDLE.

CAUTION

Do not operate starter in excess of operating limits: three runs of 40 seconds each during any 60 minute period is maximum. Three minutes cooling time between starts is required. Do not engage starter until engine comes to a complete stop.

(9) Motor engine with starter to pump lubricating oil into fuel system.

(10) Actuate starting fuel solenoid while motoring.

(11) Continue motoring until fuel-free oil flows from starting and main fuel hoses.

(12) Disconnect lubricating oil hose from fuel control and connect fuel inlet line.

(13) Remove temporary lines from fuel hoses; connect main fuel hose to main fuel flow divider. Connect starting fuel hose to starting fuel solenoid valve.

(14) With engine stopped, spray power turbine rotor with sufficient corrosion preventive (C40) to cover blades.

NOTE

Use only dehydrated air for spraying operation.

(15) Remove warning tag. Circuit breaker remains open.

(16) **P E** Install engine inlet and exhaust covers. If covers are not available, seal opening with barrier material (C23) and secure with tape (C127).

(17) **M** Install engine inlet and IR suppressor protective covers. If covers are not available, seal opening with barrier material (C23) and secure with tape (C127).

(18) Remove, disassemble, and dean oil filter. Immerse in operating lubricant, reassemble, and reinstall.

(19) Attach a tag to the controls stating: ENGINE PRESERVED; FUEL CONTROL PRESERVED WITH MIL-L-6081 OIL FLUSH WITH STANDARD FUEL BEFORE PLACING IN SERVICE.

(20) Visually check entire engine to ensure that:

(a) All holes are plugged.

(b) All ports are capped.

(c) All external parts are complete and secure.

(d) All bare metal, including internal and external threads, is covered with a film of corrosion preventive (C40).

(21) Record date and extent of engine preservation in helicopter records (TM 38-750).

c. inoperable Engine.

WARNING

Cleaning solvent is flammable and toxic. Provide adequate ventilation. Avoid prolonged breathing of solvent vapors and contact with skin or eyes.

(1) Use every precaution to keep engine and its accessories dean. Keep air intake duds, plenum chambers, and compressor inlet screens dean and free of any foreign material. Use solvent (C112) for external cleaning.

CAUTION

To prevent accident Ignition or starting of the engine, ensure that ignition system circuit breaker is OPEN (pulled out).

(2) Open ignition system circuit breaker and secure red tag stating: DO NOT CLOSE.

(3) Disconnect fuel lines from fuel control inlet and outlet ports.

(4) Remove fuel control drain plug, and drain fuel from fuel control and hoses.

(5) Remove overspeed governor and drain fuel.

(6) Reconnect fuel hoses and replace drain plug.

(7) Lockwire throttle arm into closed position.

(8) Pour oil (C77) into openings made accessible by removal of overspeed governor until fuel regulator is filled.

(9) Pour lubricating oil into overspeed governor, while rotating the driveshaft by hand.

(10) Pour excess oil from overspeed governor and reinstall.

(11) **PEI** Install engine inlet and exhaust covers. If covers are not available, seal opening with barrier material (C23) and secure with tape (C127).

(12) **MI** Install engine inlet and IR suppressor protective covers. If covers are not available, seal opening with barrier material (C23) and secure with tape (C127).

(13) Seal the gap between bleed band and compressor housing by encircling the engine with a narrow strip of barrier material (C23) and secure with tape (C127).

(14) Visually check entire engine to ensure that:

(a) All holes are plugged,

(b) All ports are capped.

(c) All external parts are complete and secure.

(d) All bare metal, including internal and external threads, is covered with a film of corrosion preventive (C40).

(15) Attach a tag to controls stating: FUEL CONTROL PRESERVED WITH MIL-L-6081 OIL FLUSH WITH STANDARD FUEL BEFORE PLACING IN SERVICE.

(16) Record date and extent of engine preservation in helicopter records (TM 38-750).

d. Rotors and Controls.

(1) Lubricate rotor system in accordance with Lubrication Instructions, paragraph 1-28.

WARNING

Cleaning solvent is flammable and toxic. Provide adequate ventilation. Avoid prolonged breathing of solvent vapors and contact with skin or eyes.

(2) Apply fingerprint remover (C44.2) to all unpainted metal surfaces. Remove any residue with a cloth dampened with solvent (C112).

(3) B540 Wipe all parts dry with a clean, lint-free cloth. Apply corrosion preventive compound (C43) on all unpainted metal surfaces not in contact with bearings.

(4) B540 Clean surfaces of rotor blades with mild soap and water solution. Wipe blades completely dry with a lint-free cloth.

(5) B540 Apply a light, even coat of wax (C135) to entire painted area of rotor blades.

(6) K747 Preserve K747 blades in accordance with Chapter 5 instructions.

e. Landing Gear,

(1) Place blocks or shoring under skid tubes to provide free air passage.

(2) Clean cross tubes and skid tubes. Treat for corrosion in accordance with TM 43-0105.

(3) Repaint any exposed metal surfaces. If paint cannot be touched up, coat bare metal surfaces with corrosion preventive compound (C43),

f. Hydraulic System.



Do not mix hydraulic fluid (C62) with fire resistant hydraulic fluid (C61). Refer to TB55-1500-334-25.

(1) Fill hydraulic reservoir with hydraulic fluid (C61 or C62).

(2) Wipe exposed portions of hydraulic boost cylinder actuator pistons with lint-free cloth moistened with hydraulic fluid (C63).

g. Avionic Equipment.

(1) Remove, attach condition tags, and turn in all head-sets and microphones to supply.

(2) Leave all unclassified avionic equipment installed in helicopter.

h. Fuel System. Maintain fuel tanks FULL for the duration of the storage period, to preclude fuel contamination. Drain any water from tanks before adding fuel. If tanks are required to be drained, refer to Intermediate Storage.

i. Battery.



Corrosive Battery Electrolyte (Potassium Hydroxide). Wear rubber gloves, apron, and face shield when handling leaking batteries. If potassium hydroxide is spilled on clothing, or other material wash immediately with clean water. If spilled on personnel immediately start flushing the affected area with clean water. Continue washing until medical assistance arrives.

(1) Disconnect battery, and turn into battery shop.

(2) Clean battery compartment, quick disconnect plug, cables, battery shelf, and vent hoses with a solution of 5 ounces boric acid crystals dissolved in 1 gallon water. Rinse with clean water and allow to dry.

(3) Seal battery vent tubes and wrap quick disconnect with barrier material (C23) secured with tape (C127).

j. Airframe.

(1) Park and moor helicopter with main and tail rotor tiedowns installed (paragraphs 1-37 and 1-40).

(2) Remove clock, fire extinguishers, and first aid kits. Tag for condition and transfer to Supply to prevent possible pilferage.

(3) Apply pitot tube cover, or cover pitot head and static ports with barrier material (C23) secured with tape (C127),

(4)  Install airspeed sensor protective cover.

(5) Close canopy,

(6) Close all openings not already covered with barrier material (C23) secured with tape (C127).

(7) Cover windshield with cover or with barrier material (C23) secured with tape (C127).

(8) Install static ground wire.

(9) Install storage covers, if available, in accordance with the directions accompanying the covers.

(10) Record the date and type of storage in the helicopter records (TM 38-750).

E-12. MAINTENANCE - SHORTTERM STORAGE.

a. Inspect helicopter in accordance with local directives and those requirements outlined in paragraph E-5.

b. If conditions change so that the helicopter must remain in storage longer than 45 days, represerve it in accordance with Section IV.

E-13. DEPRESERVATION - SHORT TERM STORAGE.

a. Airframe.

(1) Remove storage covers, clean, and return to supply.

- (2) Remove static ground wire,
- (3) Remove, clean, and store windshield covers.

WARNING

Cleaning solvent is flammable and toxic. Provide adequate ventilation. Avoid prolonged breathing of solvent vapors and contact with skin or eyes.

- (4) Remove all barrier material and tape, Remove tape residue with solvent (C112).
- (5) Open canopy and compartment doors to ventilate helicopter.
- (6) Remove pitot tube cover; ensure that static ports are open and free of tape residue.
- (7)  Remove airspeed sensor protective cover.
- (8) Replace clock, fire extinguisher, and first-aid kit.
- (9) Remove main and tail rotor tiedowns.

b. Battery.

- (1) Remove barrier material and tape from vent tubes and quick disconnect plug in battery compartment.
- (2) Ensure that all switches are OFF.
- (3) Install battery and connect quick disconnect plug.

c. Fuel System.

- (1) Check fuel tanks for water; drain as necessary.
- (2) Inspect fittings and clamps
- (3) Install battery and connect quick disconnect plug.

d. Avionics. Secure headsets and microphones from Supply; install in helicopter.

e. Hydraulic System.

- (1) Check reservoir level and inspect system for leaks,
- (2) Clean exposed portion of hydraulic boost cylinder actuator pistons with a clean cloth dampened with hydraulic fluid (C62).
- (3) Coat hydraulic pistons with a light coat of hydraulic fluid (C61 or C62).

f. Landing Gear. Remove blocks or shoring from under skid gear.

g. Rotor and Controls.

WARNING

Cleaning solvent is flammable and toxic. Provide adequate ventilation. Avoid prolonged breathing of solvent vapors and contact with skin or eyes.

- (1) Clean main (540) and tail rotor assemblies with solvent (C112). Wipe dry with lint-free cloths.
- (2) Clean main (K747) rotor in accordance with Chapter 5.
- (3) Lubricate in accordance with Lubrication Instructions, paragraph 1-28.

h. Power Train.

WARNING

Cleaning solvent is flammable and toxic. Provide adequate ventilation. Avoid prolonged breathing of solvent vapors and contact with skin or eyes.

- (1) Use solvent (C112) to clean all surfaces coated with corrosion preventive compound. Wipe dry with a clean cloth.
- (2) Check sight gages for proper lubricant levels. Service as necessary in accordance with paragraphs 1-5, 1-6, and 1-7,
- (3) Check and clean transmission oil filters.

i. Engine.

(1) Remove covers or barrier material from engine exhaust, inlet, and bleed band areas.

(2) **M** Remove cover and barrier material from IR suppressor and cowling,

WARNING

Cleaning solvent is flammable and toxic. Provide adequate ventilation. Avoid prolonged breathing of solvent vapors and contact with skin or eyes.

(3) Inspect openings for foreign materials and corrosion. Wipe clean with solvent (C112).

(4) Remove chip detector from accessory drive gearbox and drain plugs from fuel control. Allow oil to drain. Clean and replace chip detector and plugs.

CAUTION

To prevent accidental engine ignition or starting, ensure that ignition system circuit breaker is OPEN (pulled out).

(5) Open ignition system circuit breaker and secure red tag to it stating: DO NOT CLOSE.

(6) Disconnect main fuel hose from main fuel flow divider; drain into a container of at least two-gallon capacity.

(7) Check oil level; service as necessary.

CAUTION

Do not exceed starter limitations.

(8) Operate helicopter boost pump to prime fuel system, then motor engine with starter.

(9) Move throttle arm to maximum open until a solid stream of fuel with no air bubbles flows into container. At least one gallon of fuel must flow into container.

NOTE

Engine lubrication system is fully primed when oil pressure gage shows a steady positive indication.

(10) Connect main fuel hose to main fuel flow divider, and inspect engine for leakage.

(11) Remove warning tag and close ignition system circuit breaker,

(12) Operate engine for approximately 10 minutes at a minimum N2 RPM of 85 percent, Restrict engine operations at IDLE position to a maximum of two minutes in each period. Check all instruments for normal operation, and ensure that engine temperature has stabilized. (Refer to TM 55-1520-236-10).

(13) Shut down engine.

(14) Remove oil filter, check for excessive condensation, clean and reinstall.

(15) Remove chip detector. Check for excessive contamination, clean and reinstall.

WARNING

Cleaning solvent is flammable and toxic. Provide adequate ventilation. Avoid prolonged breathing of solvent vapors and contact with skin or eyes.

(16) Remove fuel inlet strainer and pump discharge strainer from fuel control, check for contamination; clean in accordance with TM 55-2840-229-24, reinstall. Replace servo filter.

(17) If no contamination is evident, engine is ready for ground test.

(18) If there is slight contamination, drain oil and refill system with new oil. Repeat steps (12) through. Evidence of continued oil contamination requires a thorough investigation.

NOTE

If there are fewer than ten hours operating time on engine since new or last overhaul, repeat steps (12) through (15) until no contamination is evident, or analysis of the contamination determines that engine must be replaced.

j. Miscellaneous.

(1) Clean helicopter as necessary in accordance with paragraph 1-11.

(2) Check helicopter records for removed or disconnected components. Ensure that all have been replaced and connected.

(3) Ensure that all related systems have been properly depreserved and serviced before any system or component operational check is run.

(4) Perform daily inspection in accordance with TM 55-1500-220-PMD.

(5) Record the date the helicopter was prepared for service in helicopter records (TM 38-750).

SECTION IV. INTERMEDIATE STORAGE**E-14. INSPECTION PRIOR TO INTERMEDIATE STORAGE.****NOTE**

General requirements of section I are a part of this procedure.

a. Ensure that all removed components are preserved and stowed either in the helicopter or at a designated location.

b. Ensure that all removed or disconnected components are entered in the helicopter records (TM 38-750).

c. Check fuel, oil, and hydraulic lines and hoses for leakage.

d. Lubricate the helicopter for the 50- and 100-hour intervals, in accordance with paragraph 1-28.

e. Ensure that all bolts, washers, nuts, etc., removed during disassembly are coated with corrosion preventive compound (C43), and reinstalled exactly as removed from the major component unless otherwise specified.

f. Record the date and type of storage in helicopter records (TM 38-750).

E-15. PRESERVATION INTERMEDIATE STORAGE.

a. Power Train. Preserve power train in accordance with paragraph E-11a.

b. Engine. Preserve operable/inoperable engines in accordance with paragraph E-11b and E-11c.

c. Rotors and Controls.

(1) Preserve in accordance with paragraph E-11d.

(2) Color code main rotor blades and hubs. Remove blades, clean with mild soap and water, place in blade containers, and store under cover.

(3) If storage covers are to be used, remove tail rotor blades and secure inside of cockpit.

d. Landing Gear. Process landing gear in accordance with paragraph E-11e.

e. Hydraulic System. Preserve in accordance with paragraph E-11f.

f. Avionic Equipment. Process in accordance with paragraph E-11g.

g. Fuel System.

WARNING

Observe all safety precautions when purging fuel cells. Use only approved equipment and methods. Refer to TM 55-1500-204-25/1.

(1) Drain fuel tanks in accordance with paragraph 1-3.

(2) Add five gallons diesel fuel, and drain. This should remove any residual fuel puddled on the tank bottom.

(3) Open fuel line and activate boost pump to remove fuel at pump sump.

(4) Repeat steps (2) and (3) using oil (C77).

(5) Drain the oil tanks and test tanks with a Combustible Gas Indicator. If a dangerous level of fumes exists, flush tanks with fresh oil (C77) until a safe reading is obtained.

(6) Spray inside of the tanks through the access opening with oil (C77).

(7) Tag fuel cap with: FUEL SYSTEM PRESERVED WITH MIL-L-6081 OIL. FLUSH WITH STANDARD FUEL BEFORE PLACING IN SERVICE.

h. Damaged Fuel System.

(1) Drain tanks in accordance with paragraph 1-3.

(2) Open fuel cells in accordance with paragraph 1-3. Ventilate tanks with rapidly moving dry air until fumes are below the danger level when tested with a Combustible Gas Indicator.

(3) Spray inside of the tanks through the access opening with oil (C77).

(4) Tag fuel system with: TANKS PRESERVED WITH MIL-L-6081 OIL.

i. Battery. Preserve in accordance with paragraph E-11f.

j. Airframe. Except for rotor blade removal, prepare airframe in accordance with paragraph E-11g.

E-16. MAINTENANCE INTERMEDIATE STORAGE.

a. Inspect helicopter in accordance with local directives and those requirements outlined in paragraph E-5.

b. Perform applicable portions of preventive maintenance daily inspection at least once every 30 days in accordance with TM 55-1500-220-PMD.

c. If conditions change so that the helicopter must remain in storage for a longer period of time, represerve it at the end of 180 days.

E-17. DE PRESERVATION INTERMEDIATE STORAGE.

a. Airframe. Depreserve helicopter in accordance with paragraph E-13a.

b. Battery. Prepare for flight in accordance with paragraph E-13b.

c. Avionic Equipment. Prepare for flight in accordance with paragraph E-13d.

d. Hydraulic System. Depreserve in accordance with paragraph E-13e.

e. Landing Gear. Remove blocks or shoring from under skid tubes.

f. Rotors and Controls.

(1) Depreserve in accordance with paragraph E-13g.

(2) Replace main (and tail, if applicable) rotor blades on hubs in same position as before removal.

g. Power Train. Depreserve in accordance with paragraph E-13h.

h. Engine/Fuel System.

(1) Drain fuel tanks of any accumulated oil.

(2) Add 5 gallons operating fuel to flush tanks. Drain.

(3) Fill tanks with operating fuel. (Check for leaks.)

(4) Depreserve engine in accordance with paragraph E-13i.

i. Miscellaneous.

(1) Clean helicopter as necessary in accordance with paragraph 1-11.

(2) Ensure that all removed and disconnected components have been reinstalled and connected.

(3) Check that all related systems are properly depreserved and serviced before performing any system or operational check.

(4) Perform any necessary inspection required by helicopter records in accordance with chapter 1.

(5) Remove static ground wire.

(6) Ensure that all necessary entries are made in helicopter records (TM 38-750) indicating the date the helicopter was prepared for service.

Section V.

Storage of Aircraft Undergoing Maintenance

E-18. Helicopters in this category require individual determination as to the degree of protection and inspection necessary while undergoing maintenance. Varying environmental conditions may justify an increase or decrease in the degree of protection needed. Some factors which should be considered are: humidity, temperature, actual location of aircraft (hangered or outside). Depending on the nature of the maintenance being performed certain inspections may not be necessary.

E-19. Preservation.

In general, when appropriate, the preservation requirement of aircraft in flyable storage are applicable to this storage category. Aircraft that are hangered are relieved from the ground run-up, installation of protective covers, and the requirement for full fuel tanks. If deemed appropriate, additional preservation measures from sections III and IV may be taken.

E-20. Maintenance of Preservation of Aircraft Undergoing Maintenance.

a. Daily inspections shall be scheduled at the discretion of the maintenance officer.

b. Helicopter shall be inspected in accordance with local directives and requirements of preceding paragraph E-3 when applicable.

E-21. Depreservation After Storage During Maintenance.

General maintenance procedures shall be followed for release of aircraft after maintenance action has been completed.

APPENDIX F

WIRING DIAGRAMS AND LOAD CHARTS

F-1. WIRING DIAGRAMS AND LOAD CHARTS.

This appendix contains wiring diagrams, load charts, and essential wiring information for all electrical systems and circuits.

NOTE

Due to the many AH-1 series configurations some wiring diagrams may be different. Refer to the Historical Record (DA Form 2408-1 5) for last configuration.

F-2. WIRING DATA.

F-3. WIRING IDENTIFICATIONS.

All wires on diagrams are identified by coded wire numbers exactly as they are marked in the helicopter. The coded wire numbers indicate circuit function wire number, wire segment letter, and wire size (gauge). (See figure F-1).

F-4. ABBREVIATIONS.

Abbreviations are in accordance with MIL-STD-12C and AR 310-50, except when the abbreviations depicts and marking or decal contained in or on the helicopter.

F-5. SYMBOLS.

Wiring diagram components symbols are drawn in accordance with ANSI Y14.15, Part 1. The symbols chart (figure F-1.1) illustrates electrical symbols used on the wiring diagrams.

F-6. EQUIPMENT LISTS

F-7. DESCRIPTION - EQUIPMENT LISTS.

Tables F-1 and F-2 list each item of equipment shown on the electrical and armament systems wiring diagrams for configuration **P**. Tables F-3 and F-4 list each item of equipment shown on the electrical and armament systems wiring diagrams for con-

figuration **E**. Table F-5 and F-6 list each item of equipment shown on the electrical and armament systems wiring diagrams for configuration **M**. Designator **MCN** identifies C-NITE peculiar items installed on **M** configurations.

Each item of equipment is identified by the reference designator and nomenclature. Each reference designator consists of system number, unit number and item number as follows: in sample reference designator - 9A1P3, the "9" indicates system number, "A1" indicates unit number, and "P3" indicates item number. In the following tabular listing, system number and system description are given:

SYSTEM NO.	SYSTEM DESCRIPTION
1.	Propulsion System
2.	DC Power System
3.	AC Power System
4.	Pilot Instruments and Panels
5.	Gunner Instruments and Panels
8.	Lighting Systems
9.	AFCS System
10.	Environmental Control System
16.	Fire Control System
17.	Helmet Sight System
18.	Air Data System
19.	Turret System
20.	TOW Missile Subsystem
21.	Wing Stores (Other than TOW)
22.	Interface Components

F-8. LOAD CHARTS.

The ac and dc load charts (configuration **P**; FO-4 thru FO-16, configuration **E**; figure F-19 and FO-41 thru FO-43, and configuration **M**; figures F-39 and F-40) list each electrical load, component nomenclature, or part number, and individual load requirements in tabular form. They also present the total load supplied by each operating ac and dc power source during a typical flight regime.

F-9. WIRING DIAGRAM INDEX.

The following wiring diagrams are contained in this appendix

Configuration  peculiar wiring diagrams

Title	Figure
Altimeter vibrator system	F-1.2
Anticollision and position lights system	F-5
Armament relay location.	F-18.1
Attitude indicating system.	F-16
Engine de-ice system	F-7
Environmental control system	F-13
External power system	F-2
Force trim system	F-12
Fuel boost system	F-9
Fuel quantity indicating system	F-17
Fuel valve and engine oil valve system	F-8
Governor control system.	F-10
Idle stop system	F-11
Ignition system	F-4
Pitot heater system	F-14
Radio blower cooling system	F-18
Searchlight system	F-6
Start system	F-3
TOW blower cooling system	F-15
Turn and slip indicating system	F-17.1

Configuration  Peculiar wiring diagrams

Title	Figure
AC electrical load chart	F-19
Altimeter vibrator system	F-20
Armament relay location.	F-38.1
Attitude indicating system	F-34
Engine de-ice system	F-24
Environmental control system	F-30
External power system.	F-21
Fuel boost system.	F-26
Fuel quantity indicating system	F-35
Fuel valve and engine oil valve system	F-25
Force trim system.	F-29
Governor control system.	F-27
Idle stop system	F-28
Pitot heater System.	F-31
Radio blower cooling system	F-33
Searchlight system.	F-23
Starter system.	F-22
Tachometer indicating systems	F-36
TOW blower cooling system	F-32
Turn and slip indicating system.	F-37

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Configuration  peculiar wiring diagrams and equipment location charts:

Title	Figure
AC electrical load chart	F-39
AC power system	F-52
AIM/EXL laser gunsight system	F-75.1
Altimeter vibrator system	F-47
Anticollision lights system	F-59
Attitude indicating system.	F-44
Battery system	F-49
Caution lights system	F-56
DC electrical load chart	F-40
DC generator power system	F-48
DC power distribution interconnect logic	F-51
Engine de-ice system	F-61
Environmental control system	F-68
External power provisions	F-50
Fire control system	F-74
Force trim system	F-66
Fuel boost system	F-63
Fuel quantity indicating system	F-46
Fuel valve and engine oil bypass valve system	F-62
Governor control system.	F-64
GPS trimpack system	F-71.2
Hydraulic control system.	F-67
Idle stop system.	F-65
Ignition system	F-54
Interior lights system.	F-55
Pitot heater system.	F-69
Position lights system	F-58
Pressure indicating systems.	F-42
Radio blower cooling system	F-71
RPM limit warning system	F-57
Searchlight system.	F-60
Starter system	F-53
Tachometer indicating system	F-41
Temperature indicating systems	F-43
TOW blower cooling system	F-70
TOW missile armament system	F-73
Turn and slip indicating system.	F-45
Universal turret subsystem	F-72
Wing stores armament system.	F-75

FOLDOUT WIRING DIAGRAM INDEX.

The following foldout wiring diagrams are contained in this manual.

Configuration  peculiar wiring diagrams

Title	Figure
AC electrical load chart	FO-4 thru FO-7

AC power system FO-19
 Armament TOW missile wiring diagram FO-33
 thru FO-36

Armament turret svstem FO-27
 thru FO-29

Armament wing stores system FO-30
 thru FO-32

Balancer and strobox description FO-3

Battery system FO-17

Caution lights system FO-23
 and FO-24

DC electrical load chart FO-8
 thru FO-16

Generator and dc bus system FO-18

Hydraulic control system FO-26

Hydraulic system schematic FO-1

Interior lights system FO-20
 thru FO-22

Pressure Indicating system FO-37

RPM limit warning system. FO-25

RPM limit warning test set schematic FO-40

Tachometer indicating system. FO-38

Temperature indicating system FO-39

Configuration **E** peculiar wiring diagrams

Title	Figure
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AC electrical load chart	FO-41
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AC power system	FO-48
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Anticollision and position lights system	FO-56
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Balancer and strobox description	FO-3
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Batterysystem	FO-44
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Caution lights system	FO-53
	and FO-54

DC electrical load chart	FO-42
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	and FO-43
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DC generator power system	FO-45
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DC power distribution and interconnect logic	FO-46
	and FO-47

Electrlcal equipment component replacement	FO-80
	thru FO-90

Hydraulic control system	FO-57
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Hydraulic system Schmatic	FO-2
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Ignition system	FO-49
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Interior lights system	FO-50
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	thru FO-52
Pressure indicating system	FO-78

RPM limit warning system	FO-55
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Temperature indicating systems.	FO-79
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TOW missile system	FO-68
	thru FO-77

Turret system	FO-58
	thru FO-64

Wing stores system	FO-65
	thru FO-67

Configuration **M** peculiar wiring diagrams and
 equipment location charts

Title	Figure
AC power system	FO-98
AIM-1/EXL laser gunsight system	FO-146
Attitude indicating system	FO-93
Balancer and strobox description	FO-3
Battery svstem	FO-95
Caution lights system.	FO-104
	and FO-105
DC generator power system	FO-94
DC power distribution and interconnect logic	FO-96
	thru FO-97

Electrical equipment component replacement	FO-137
	thru FO-142

Fire control system	FO-130
	thru FO-133

GPS trimpack system	FO-147
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Hydraulic control system	FO-108
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Hydraulic system schematic	FO-2
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Ignition system	FO-99
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Interior lights system	FO-100
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	thru FO-103
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Pressure indicatng system	FO-91
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RPM limit war warning system	FO-106
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RPM limit warning test set schematic	FO-107
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Temperature indicating system.	FO-92
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TOW missile armament subsystem	FO-119
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	thru FO-129
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Universal turret subsystem	FO-109
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	thru FO-118
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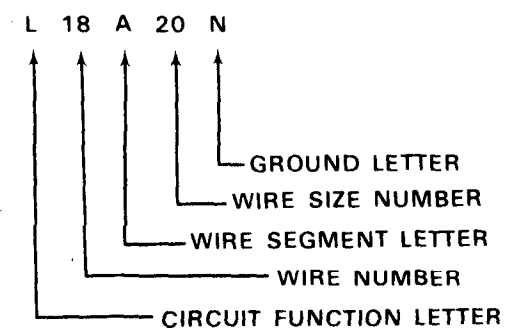
Wing stores armament subsystem.	FO-134
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	thru FO-136
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Configuration **MCN** peculiar wiring diagrams and
 equipment location charts:

Title	Figure
Fire control system	FO-144
TOW missile armament subsystem.. . . .	FO-143
LOW G warning system	FO-211

WIRING IDENTIFICATION CODE

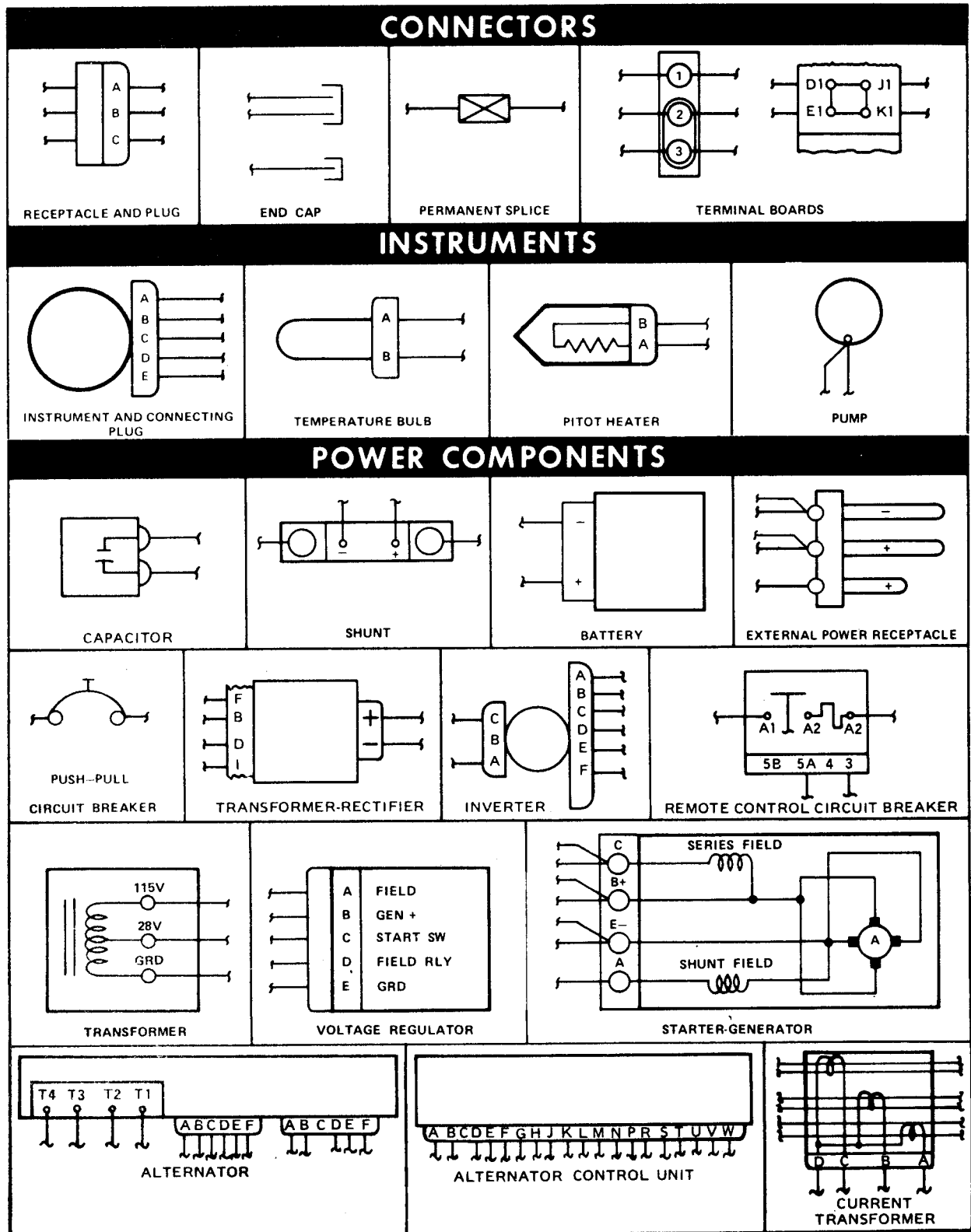


CIRCUIT FUNCTIONS

<u>CODE</u>	<u>NOMENCLATURE</u>	<u>CODE</u>	<u>NOMENCLATURE</u>
A	ARMAMENT	M	MISCELLANEOUS ELECTRIC
C	CONTROL SURFACES	N	GROUND
D	INSTRUMENTS (OTHER THAN FLIGHT OR ENGINE)	P	DC POWER
E	ENGINE INSTRUMENTS	Q	FUEL AND OIL
F	FLIGHT INSTRUMENTS	TG	TOW GUIDANCE AND CONTROL
H	HEATING, VENTILATING AND DE-ICING	V	DC POWER AND DC CONTROL CABLES FOR AC SYSTEM
J	IGNITION	W	WARNING AND EMERGENCY
K	ENGINE CONTROL	X	AC POWER
L	LIGHTING		

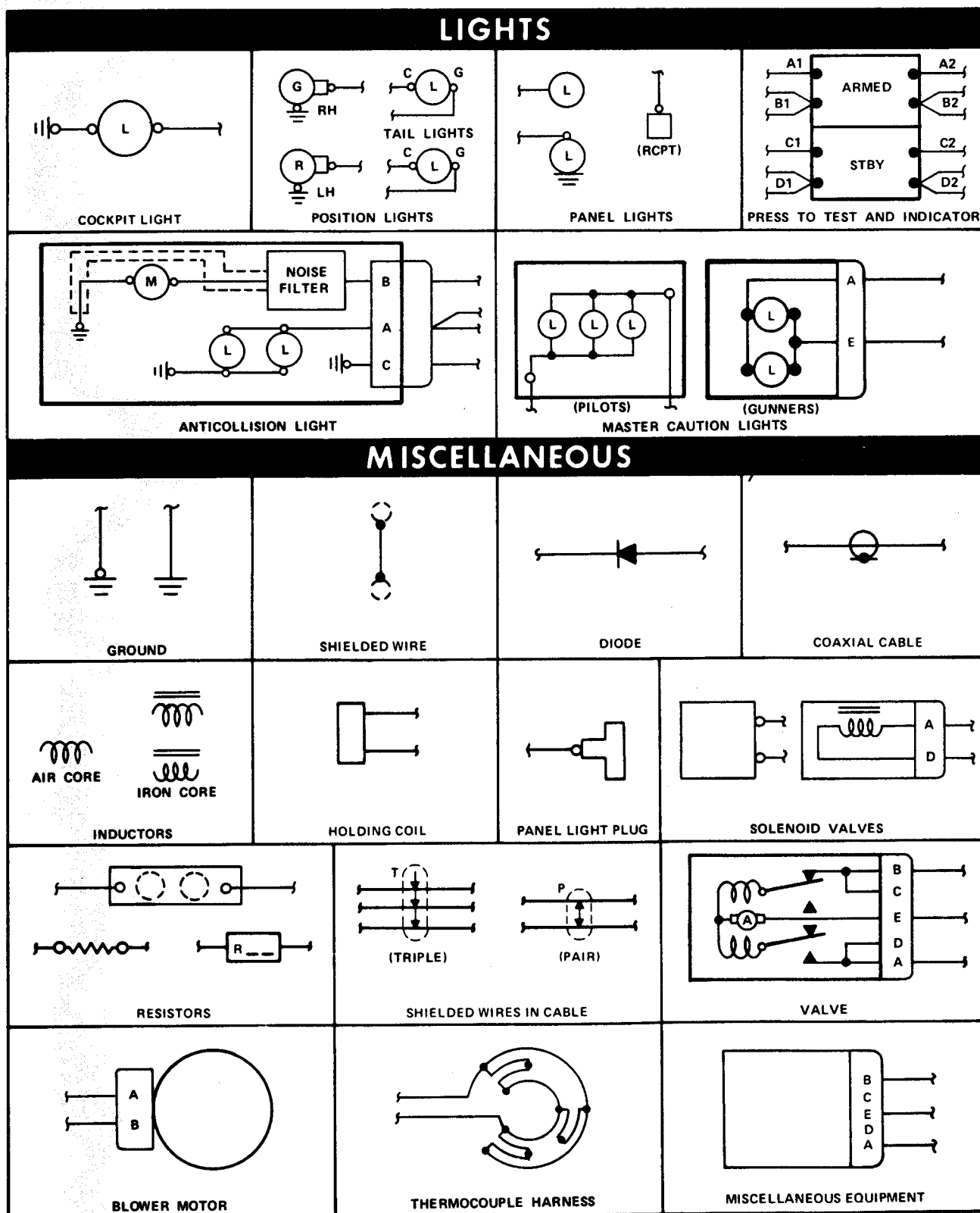
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Figure F-1. Wiring Identification Chart



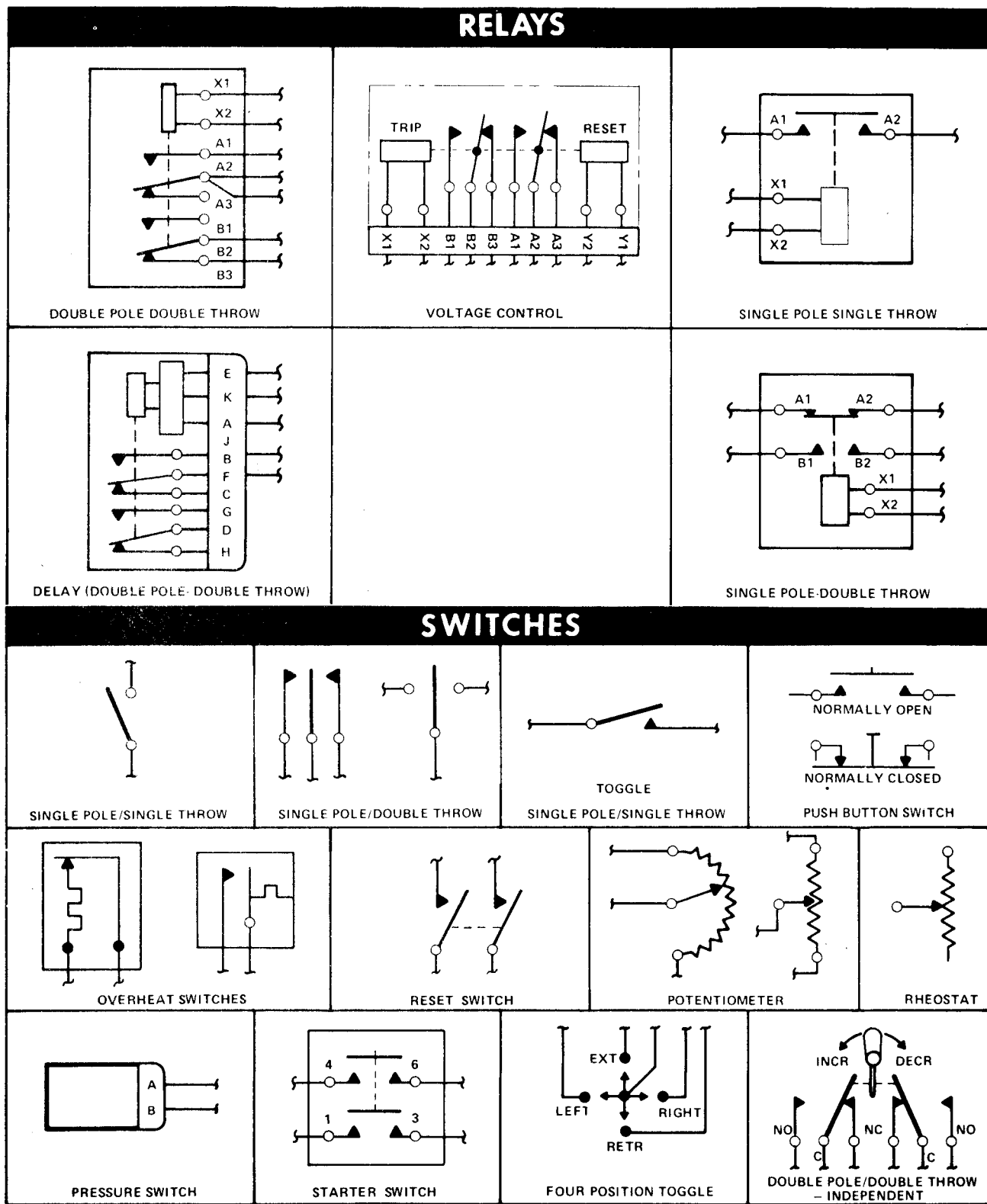
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Figure F-1.1. Symbols Chart (Sheet 1 of 3)



209475-361-2B

Figure F-1.1. Symbols Chart (Sheet 2 of 3)



209475-361-3

Figure F-1.1. Symbols Chart (Sheet 3 of 3)

Table F-1. **P** Equipment list (electrical)

Item No.	Nomenclature	Item No.	Nomenclature
1A1	PNL, PLT ENG CONT	1J4/P4	RCPT & PLUG, STARTER/GENERATOR
1A1J1/P1	RCPT & PLUG, PLT CONT	1J5/P5	RCPT & PLUG, THERMOCOUPLE
1A1J2/P2	RCPT & PLUG, PLT ENG CONT	1J6/P6	RCPT & PLUG, ENG ACCESS
1A2	PNL, GNR MISC CONT	1K1	RELAY, FUEL LOW LEVEL
1A2J1/P1	RCPT & PLUG, GNR MISC CONT	1K3	RELAY, STARTER
1B1	VALVE, OIL BYPASS	1K4	RELAY, EMER HYDR PWR
1B1J1/P1	RCPT & PLUG, OIL BYPASS VALVE	1K5	RELAY, EMER HYDR CONT
1B2	PUMP, EMER HYDR	1K6	RELAY, OIL BYPASS
1B2J1/P1	RCPT & PLUG, EMER HYDR PUMP	1L1	SOLENOID, SYS 1 HYDR BYPASS VALVE
1B3	MOTOR, RPM ACTR	1L1J1/P1	RCPT & PLUG, SYS 1 HYDR BYP VALVE
1B4	MOTOR, FUEL VALVE	1L2	SOLENOID, SYS 2 HYDR BYPASS VALVE
1B4J1/P1	RCPT & PLUG, FUEL VALVE	1L2J1/P1	RCPT & PLUG, SYS 2 HYDR BYP VALVE
1B5	MOTOR, FWD FUEL BOOST	1L3	SOLENOID, EMER HYDR (PRESS)
1B6	MOTOR, AFT FUEL BOOST	1L3J1/P1	RCPT & PLUG, EMER HYDR (PRESS) SOL
1CB1	CB, HYDR CONT	1L4	SOLENOID, EMER HYDR (RETURN)
1CB2	CB, EMER HYDR PUP	1L4J1/P1	RCPT & PLUG, EMER HYDR (RETURN) SOL
1CB3	CB, IDLE STOP SOL	1L5	SOLENOID, IDLE STOP
1CB4	CB, FUEL/OIL VALVE	1M1	INDICATOR, TGT
1CB5	CB, GOV CONT	1M1J1/P1	RCPT & PLUG, TGT
1CB6	CB, IGN SOL	1M2	INDICATOR, GAS PRODUCER
1CB7	CB, START RLY	1M2J1/P1	RCPT & PLUG, GAS PRODUCER
1CB8	CB, ENG DEICE	1M3	INDICATOR, DUAL TACH
1CB9	CB, FUEL BOOST FWD	1M3J1/P1	RCPT & PLUG, DUAL TACH
1CB10	CB, TEMP IND ENG XMSN	1M4	INDICATOR, TORQUE
1CB11	CB, TURN/SLIP IND	1M4J1/P1	RCPT & PLUG, TORQUE
1CB12	CB, FUEL BOOST AFT	1M5	INDICATOR, ALTIMETER
1CB16	CB, FUEL QTY	1M5J1/P1	RCPT & PLUG, ALTIMETER
1CB17	CB, TGT IND	1M6	INDICATOR, XMSN OIL
1CB18	CB, GAS PROD	1M6J1/P1	RCPT & PLUG, XMSN OIL
1CB19	CB, TRQ IND	1M7	INDICATOR, ENGINE OIL
1CB20	CB, DUAL TACH	1M7J1/P1	RCPT & PLUG, ENGINE OIL
1CB21	CB, ALTM	1M8	INDICATOR, FUEL QTY
1CR3	DIODE, ARC SUPPRESSOR	1M8J1/P1	RCPT & PLUG, FUEL QTY
1CR4	DIODE, ARC SUPPRESSOR	1M10	INDICATOR, ALTIMETER
1E1	DETECTOR, CHIP -42° GRBX	1M10J1/P1	RCPT & PLUG, ALTIMETER
1E2	DETECTOR, CHIP -90° GRBX	1M11	INDICATOR, TGT
1E3	DETECTOR, CHIP-XMSN	1M11J1/P1	RCPT & PLUG, TGT
1E4	DETECTOR, CHIP-ENG		
1G1	GENERATOR, ROTOR TACH		
1G1J1/P1	RCPT & PLUG, ROTOR TACH		
1J1/P1	RCPT & PLUG, ENG DISC		
1J2/P2	RCPT & PLUG, XMSN DISC		
1J3/P3	RCPT & PLUG, ENG OIL BYPASS		

Table F-1. **P** Equipment list (electrical) (Cont)

Item No.	Nomenclature
1M12	INDICATOR, GAS PRODUCER
1M12J1/P1	RCPT & PLUG, GAS PRODUCER
1M13	INDICATOR, DUAL TACH
1M13J1/P1	RCPT & PLUG, DUAL TACH
1M14	INDICATOR, TORQUE
1M14J1/P1	RCPT & PLUG, TORQUE
1M18	INDICATOR, AIRSPEED IND-PLT
1M18J1/P1	RCPT & PLUG, PLT AIRSPEED IND
1M19	INDICATOR, VERT SPEED IND-PLT
1M19J1/P1	RCPT & PLUG, PLT VERT SPEED IND
1M20	CLOCK-PLT
1M20J1/P1	RCPT & PLUG, PLT CLOCK
1M21	INDICATOR, AIRSPEED-GNR
1M21J1/P1	RCPT & PLUG, GNR AIRSPEED
1M22	INDICATOR, VERT SPEED-GNR
1M22J1/P1	RCPT & PLUG, GNR VERT SPEED IND
1M23	COMPASS, STBY-GNR
1M23J1/P1	RCPT & PLUG, GRN STBY COMPASS
1MG1	STARTER/GENERATOR
1MT2	XMTR, ENG OIL
1MT2J1/P1	RCPT & PLUG, ENG OIL
1MT3	XMTR, TORQUE
1MT3J1/P1	RCPT & PLUG, TORQUE
1MT4	XMTR, XMSN OIL
1MT4J1/P1	RCPT & PLUG, XMSN OIL
1MT5	XMTR, TORQUE
1MT5J1/P1	RCPT & PLUG, TORQUE
1RT1	BLUB, XMSN OIL TEMP
1RT1J1/P1	RCPT & PLUG, XMSN OIL TEMP
1S1	SW, RPM AUDIO
1S3	SW, ENG AIR PRESS
1S4	SW, FWD FUEL BOOST
1S4J1/P1	RCPT & PLUG, FWD FUEL BOOST SW
1S5	SW, AFT FUEL BOOST
1S5J1/P1	RCPT & PLUG, AFT FUEL BOOST SW
1S6	SW, NO. 1 HYDR PRESS
1S6J1/P1	RCPT & PLUG, NO. 1 HYDR PRESS SW
1S7	SW, NO. 2 HYDR PRESS
1S7J1/P1	RCPT & PLUG, NO. 2 HYDR PRESS SW

Item No.	Nomenclature
1S8	SW, XMSN OIL HOT
1S9	SW, XMSN OIL PRESS
1S9J1/P1	RCPT & PLUG, XMSN OIL PRESS SW
1S10	SW, XMSN OIL BYPASS
1S11	SW, ENG FUEL PUMP PRESS
1S12	SW, ENG FUEL PUMP PRESS
1S13	SW, ENG OIL PRESS
1S13J1/P1	RCPT & PLUG, ENG OIL PRESS SW
1S14	SW, FUEL FILTER BYPASS
1S14J1/P1	RCPT & PLUG, FUEL FILTER BYPASS SW
1S15	SW, ENG OIL FLOAT
1S16	SW, ENG OIL BYPASS
1S17	SW, HYDR TEST
1S18	SW, FWD FUEL LOW LEVEL
1S19	SW, AFT FUEL LOW LEVEL
1S20	SW, EMER HYDR PRESS
1S20J1/P1	RCPT & PLUG, EMER HYDR PRESS SW
1S21	SW, OVER TORQUE PRESS
1S21J1/P1	RCPT & PLUG, OVER TORQUE PRESS SW
1S22	SW, EMER HYDR PUMP
1S23	SW, EMER HYDR PUMP
1S24	SW, EMER HYDR PUMP OVLD
1S28	SW, GOV
1S29	SW, GOV RPM
1S30	SW, IDLE STOP
1S31	SW, ENG DEICE
1S32	SW, GOV
1S33	SW, FUEL
1S34	SW, ENG DEICE
1S35	SW, GOV RPM
1S36	SW, STARTER
1S37	SW, IDLE STOP
1S38	SW, FUEL QTY TEST
1S39	SW, IGNITION
1TB1	TB, ENG GND BUS
1TB3	TB, ENG INSTR JUNCTION
1TB4	TB, FUEL BOOST PRESS SW
1TB5	TB, ENG OIL BYPASS
1TB6	TB, FWD FUEL CELL
1TB7	TB, AFT FUEL CELL
1TB10	TB, ATTD IND
1XK5	SOCKET, EMER HYDR RLY
1Z1	XMTR, FUEL QTY (FWD)
1Z1J1/P1	RCPT & PLUG, FUEL QTY

Table F-1. **P** Equipment list (electrical) (Cont)

Item No.	Nomenclature
1Z1J2/P2	RCPT & PLUG, FUEL QTY
1Z1J3/P3	RCPT & PLUG, FUEL QTY
1Z2	XMTR, FUEL QTY (AFT)
1Z2J1/P1	RCPT & PLUG, FUEL QTY
1Z2J2/P2	RCPT & PLUG, FUEL QTY
1Z3	DETECTOR, RPM
1Z3J1/P1	RCPT & PLUG, RPM DETECTOR
2A1	PANEL, DC CIRCUIT BRKR
2A1J1/P1	RCPT & PLUG, DC CIRC BRKR PNL
2A1J2/P2	RCPT & PLUG, DC CIRC BRKR PNL
2A2	PANEL, PLT ELEC
2A2J1/P1	RCPT & PLUG, PLT ELEC PNL
2BT1	BATTERY
2BT1J1/P1	RCPT & PLUG, BATTERY
2CB1	CB, LOADMETER
2CB2	CB, LOADMETER
2CB3	CB, GEN BUS RESET
2CB4	CB, GEN FIELD
2CB5	CB, DC VM
2CR1	DIODE, ARC SUPPRESSOR
2CR2	DIODE, ARC SUPPRESSOR
2CR3	DIODE, ARC SUPPRESSOR
2CR4	DIODE, ARC SUPPRESSOR
2CR5	DIODE, EXT PWR
2K1	RELAY, EXT PWR
2K2	RELAY, BATTERY
2K3	RELAY, TURRET PWR
2K4	RELAY, NON ESS BUS
2K5	RELAY, REVERSE CURRENT
2K6	RELAY, GEN FIELD
2K7	RELAY, BUS CONTROL
2M1	METER, VOLT/LOAD
2M1J1/P1	RCPT & PLUG VOLT/ LOADMETER
2R1	SHUNT
2S1	SW, BATTERY
2S2	SW, NON ESS BUS
2S3	SW, GEN
2S4	SW, ELEC PWR-GNR
2TB1	TB, EXT PWR
2VR1	REGULATOR, VOLTAGE
2VR1J1/P1	RCPT & PLUG, VOLTAGE REGULATOR
2XK6	SOCKET, RELAY
2XK7	SOCKET, BUS CONT RLY

Item No.	Nomenclature
3A1	PANEL, AC/ARMT CIRC BRKR
3A1J1/P1	RCPT & PLUG, AC CIRC BRKR PNL
3C1	CAPACITOR, PWR FACTOR
3C2	CAPACITOR, PWR FACTOR
3CB1	CB, MAIN INVTR
3CB2	CB, STBY INVTR
3CB3	CB, 28 VAC XFMR
3CB4	CB, ENG VIB METER
3CB5	CB, PWR FACTOR
3CR1	DIODE, ARC SUPPRESSOR
3CR2	DIODE, ARC SUPPRESSOR
3K1	RELAY, MAIN INVERTER
3K2	RELAY, STBY INVERTER
3K3	RELAY, AC PWR CONT
3K4	RELAY INVERTER
3K5	RELAY, MAIN AC FAIL
3K5J1/P1	RCPT & PLUG, MAIN AC FAIL RLY
3K6	RELAY, INVERTER SEL
3K7	RELAY, STBY AC FAIL
3K8	RELAY, MAIN INV FAIL LT
3K7J1/P1	RCPT & PLUG, STBY AC FAIL RLY
3MG1	INVERTER, STBY
3MG1J1/P1	RCPT & PLUG, STBY INVERTER
3PS1	INVERTER, MAIN
3PS1J1/P1	RCPT & PLUG, MAIN INVERTER
3S1	SW, INVERTER
3S2	SW, MAIN INVTR OVLD
3S3	SW, STBY INVTR OVLD
3T1	XFMR, REFERENCE
3T1J1/P1	RCPT & PLUG, REFERENCE XFMR
3T2	XFMR, 115/28
3TB1	TERM BD, AC
3XK3	SOCKET, AC PWR CONT
3XK4	SOCKET, INVERTER RELAY
3XK6	SOCKET, INVTR SEL
3XK8	SOCKET, RELAY
4A1	PANEL, PLT INSTRUMENT
4A1J1/P1	RCPT & PLUG, PLT INSTR PNL
4A1J2	RCPT, PLT INSTR PNL
4A1A1	PANEL, PLT LTG CONT
4A1A1J1	RCPT, PLT LTG CONT PNL

Table F-1. **P**Equipment list (electrical) (Cont)

Item No.	Nomenclature
4A2	STICK, COLL-PLT
4A2J1/P1	RCPT & PLUG, PLT COLL STICK
4A3	STICK, CYCLIC-PLT
4A3J1/P1	RCPT & PLUG, PLT CYC STICK
4CB1	CB, ATTD IND-PLT
4M1	ADI-PLT
4M1J1/P1	RCPT & PLUG, PLT ADI
4Z1	GYRO, ATTITUDE
4Z1J1/P1	RCPT & PLUG, ATTITUDE GYRO
4Z2	XMTR, RATE GYRO
4Z2J1/P1	RCPT & PLUG, RATE GYRO
5A1	PANEL, INSTRUMENT-GNR
5A1A1	PANEL, TCP DIMMING CONT
5A1A1J1	RCPT, TCP DIM CONT PNL
5A1A2J1	RCPT, PHS ACQ PNL
5A1A3J1	RCPT, JETT/HYDR PUMP PNL
5A1A2	PANEL, PHS ACQ
5A1A3	PANEL, JET/HYDR PUMP
5A1J1/P1	RCPT & PLUG, GNR INSTR PNL
5A2	STICK, CYCLIC-GNR
5A2J1/P1	RCPT & PLUG, GNR CYC STICK
5CB1	CB, ATTD IND-GNR
5M1	IND, ATTD-GNR
5M1J1/P1	RCPT & PLUG, GNR ATTD IND
8A2	PANEL, CAUTION-PLT
8A2J1/P1	RCPT, PLT CAUTION PNL
8A3	PANEL, CAUTION-GNR
8A3J1/P1	RCPT & PLUG, GNR CAUTION PNL
8A4	BOARD, NVG PC
8A4J1	RCPT, PCB LTG CONT
8A5	BOARD, NVG PC
8A5J1	RCPT, PCB LTG CONT
8A6	BOARD, NVG PC
8A10	ASSEMBLY, LOW G WARNING
8A10P1	PLUG, LOW G WARNING
8A11	ACCELEROMETER
8A11P1	PLUG, ACCELEROMETER
8CB1	CB, NAV LT PWR
8CB2	CB, ANTI COLL LT
8CB3	CB, SEARCH LT CONT
8CB4	CB, SEARCH LT PWR
8CB5	CB, GNR INSTR LT
8CB6	CB, PLT INSTR LT
8CB7	CB, CAUTION LT
8CB8	CB, COCKPIT LT

Item No.	Nomenclature
8CB9	CB, FIRE DET
8CB10	CB, RPM WARNING
8CB11	CB, XMSN OIL LEVEL LT
8CB15	CB, LOW G WARNING
8CR1	DIODE, FWD FUEL BOOST
8CR2	DIODE, AFT FUEL BOOST
8CR3	DIODE, ENG OIL BYPASS
8CR4	DIODE, BLOCKING
8CR5	DIODE, BLOCKING
8CR6	DIODE, BLOCKING
8CR7	DIODE, BLOCKING
8CR8	DIODE, BLOCKING
8CR9	DIODE, BLOCKING
8DS1	LT, LH NAV
8DS2	LT, RH NAV
8DS3	LT, LH TAIL
8DS4	LT, RH TAIL
8DS5	LT, ANTI COLL
8DS5J1/P1	RCPT & PLUG, ANTI COL LT
8DS6	LT, SEARCH
8DS7	MATRIX, PLT WARNING
8DS10	LT, PLT FIRE WARNING
8DS11	LT, GNR MASTER CAUTION/FIRE
8DS13	LT, PLT COCKPIT
8DS14	LT, PLT COCKPIT
8DS15	LT, GNR COCKPIT
8DS16	LT, XMSN OIL LEVEL
8DS25	LIGHT/SWITCH, LOW G WARNING
8J101	RCPT, PLT ELEC PNL LTG
8J106	RCPT, PANEL LT
8J107	RCPT, PANEL LT
8J108	RCPT, PANEL LT
8J109	RCPT, PANEL LT
8J111	RCPT, DC CIRC BRKR PNL LTG
8J3/P3	RCPT & PLUG, ANTI COLL LT DISC
8K1	RELAY, DIM
8K2	RELAY, NVG
8K3	RELAY, PLT NVG
8K4	RELAY, PLT NVG
8M1	COUNTER
8PS1	PWR SUPPLY, GNR INSTR LT
8PS1J1/P1	RCPT & PLUG, PWR SUPPLY GNR INSTR LT
8PS2	PWR SUPPLY, PLT TAC LT
8PS2J1/P1	RCPT & PLUG, TAC LT
8PS3	PWR SUPPLY, PLT FLT INSTR LT

Table F-1.  Equipment list (electrical) (Cont)

Item No.	Nomenclature
8PS3J1/P1	RCPT & PLUG, FLT INSTR LT
8PS4	PWR SUPPLY, PLT ENG INSTR
8PS4J1/P1	RCPT & PLUG, PWR SUPP ENG INSTR LT
8Q1	TRANSISTOR, NVG
8Q2	TRANSISTOR, NVG
8Q3	TRANSISTOR NVG

Item No.	Nomenclature

Table F-1. **P** Equipment list (electrical) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
8Q4	TRANSISTOR NVG	8Z2J1/P1	RCPT & PLUG, FIRE DET CONT UNIT
8Q5	TRANSISTOR NVG	9CB1	CB, FORCE TRIM
8Q6	TRANSISTOR NVG	9CB2	CB, SCAS PWR
8R1	RESISTOR, NAV LT	9L1	BRAKE, ANTI TORQUE MAG
8R2	RESISTOR, FIRE DET TEST	9L1J1/P1	RCPT & PLUG, ANTI TORQUE MAG BRAKE
8R3	POTENTIOMETER, GNR INSTR LT	9L2	BRAKE, LATERAL MAG
8R4	POTENTIOMETER, GNR CSL LT	9L2J1/P1	RCPT & LATERAL MAG BRK
8R5	POTENTIOMETER, GNR TCP LT	9L3	BRAKE, FORE & AFT MAG
8R10	POTENTIOMETER, PLT TAC LT	9L3J1/P1	RCPT & PLUG, FORE & AFT MAG BRK
8R11	POTENTIOMETER, FLT INSTR LT	9S1	SW, PLT FORCE TRIM
8R12	POTENTIOMETER, ENG INSTR LT	9S2	SW, PLT FORCE TRIM
8R13	POTENTIOMETER, CSL LT	9S3	SW, GNR FORCE TRIM
8R14	POTENTIOMETER, PLT RAD ALT	10A1	PNL, LTG/ECS—PLT
	DIG READ	10A1J1/P1	RCPT & PLUG, PLT LTG/ECS PNL
8R20	RESISTOR	10B1	VALVE, TEMP SENSING
8R21	RESISTOR	10B1J1/P1	RCPT & PLUG, TEMP SENSING
8RT1	DETECTOR, FIRE SENSE ELEMENT	10B2	BLOWER TOW COMPT
8RT1J1/P1	RCPT & PLUG, FIRE DET SENSE ELEM	10B2J1/P1	RCPT & PLUG, TOW COMPT BLO
8RT1J2/P2	RCPT & PLUG, FIRE DET SENSE ELEM	10B3	BLOWER, RADIO
8S1	SW, NAV LT	10C1	CAPACITOR, RADIO BLO
8S2	SW, NAV LT	10CB1	CB, ENVIR CONT
8S3	SW, ANTI COLLISION LT	10CB2	CB, PITOT HTR
8S4	SW, SEARCH LT	10CB3	CB, TOW BLO
8S5	SW, SEARCH LT	10CB4	CB, RADIO BLO
8S6	SW, EXT PWR DOOR	10CR1	SEMICONDUCTOR, TOW OVHT SW
8S7	SW, FIRE DET TEST	10CR2	DIODE, TOW BLO RELAY
8S8	SW, XMSN OIL LEVEL LT	10HR1	TUBE, PITOT
8S9	SW, GNR NVG	10HR1J1/P1	RCPT & PLUG, PITOT HEATER
8S10	SW, GNR NVG	10J1/P1	RCPT & PLUG, TAILBOOM DISC
8S11	SW, PLT NVG	10J2/P2	RCPT & PLUG, PITOT HTR
8S12	SW, PLT NVG ENABLE	10K1	RELAY, HEATER CONT
8TB1	TB, TAIL LT	10K2	RELAY, TOW BLO
8TB3	TB, PLT INSTR GND	10L1	VALVE, BLEED AIR
8TB4	TB, LGT AND CAUTION	10L1J1/P1	RCPT & PLUG, BLEED AIR VALVE
8TB5	TB, GNR LTG	10L3	SOLENOID, RAIN REMOVAL
8TB6	TB, PLT NVG LTG	10L4	SOLENOID, RAIN REMOVAL
8TB7	TB, PLT NVG LTG	10R1	RESISTOR, ENVIR CONT
8TB8	TB, GNR NVG LTG	10S1	SW, PITOT HTR
8TB15	TB, LOW G WARNING	10S2	SW, ENVIR CONT
8XA4	SOCKET, PLT NVG	10S3	SW, DUCT OVHT
8XA5	SOCKET, PLT NVG	10S4	SW, TOW COMPT OVHT
8XA6	SOCKET, GNR NVG	10S5	SENSOR, TOW BLO OVLD
8XK1	SOCKET, GNR NVG RELAY		
8XK2	SOCKET, GNR NVG RELAY		
8XK3	SOCKET, PLT NVG RELAY		
8XK4	SOCKET, PLT NVG RELAY		
8Z1	FLASHER, NAV LT		
8Z1J1/P1	RCPT & PLUG, NAV LT FLASHER		
8Z2	UNIT, FIRE DET		

Table F-1.  Equipment list (electrical) (Cont)

Item No.	Nomenclature
10S6	SW, RADIO BLOWER
10S7	SW, RAIN RMV SOL
10XK1	SOCKET, HTR CONT RLY
10Z1	UNIT, ENVIR CONT
10Z1J1/P1	RCPT & PLUG, ENVIR CONT UNIT
17CB1	CB, HSS
19CB1	CB, TURRET CONT
19CB2	CB, WPN CONT
19CB3	CB, WPN FIRE
19CR1	DIODE, BLOCKING
19K1	RELAY, TURRET CLEARING
19K1J1/P1	RCPT & PLUG, TURRET CLEARING RELAY
19K90	RELAY, ARMT

Item No.	Nomenclature
19XK90	SOCKET, ARMT RELAY
20CB3	CB, SECU
20CB4	CB, REF XFMR
20CB5	CB, TOW PWR
21CB2	CB, JETTISON
21CB3	CB, LH MINI GUN
21CB4	CB, RH MINI GUN
21CB6	CB, RKT PWR
21J1/P1	RCPT & PLUG, LH WING DISC
21J2/P2	RCPT & PLUG, RH WING DISC
22A1	PNL, PLT MISC
22A1J1/P1	RCPT & PLUG, PLT MISC PNL

Table F-2. **P** Equipment list (armament)

Item No.	Nomenclature
1AZJ1	RCPT, GNR MISC PNL
1K5	RELAY, EMER HYD SYS
1TB13	TB, ENG TEMP
1XK5	RELAY, EMER HYD SYS
2K3	RELAY, ARMT PWR
3A1	PANEL, AC/ARMT CB
3A1J1/P1	RCPT & PLUG, AC/ARMT CB PANEL
3T1	XFMR, REFERENCE
3T1J1/P1	RCPT & PLUG, REFERENCE XFMR
4A1J1/P1	RCPT & PLUG, PLT INSTR PNL
4A2	PILOTS COLL STICK
4A2J1/P1	RCPT & PLUG, PILOT COLL STICK
5A1	GNR INST PANEL
5A1J1/P1	RCPT & PLUG, GNR INST PANEL
5A2	GNR CYCLIC STICK
5A2J1/P1	RCPT & PLUG, GNR CYCLIC STICK
8A7	GNR PC BOARD
8J102	RCPT PNL LT
8J103	RCPT PNL LT
8J104	RCPT PNL LT
8J110	RCPT PNL LT
8TB4	TB, LTG AND CAUTION
8TB5	TB, GNR LTG
8XA7	ARMT PC BOARD
8Z3	MODULE, LT DIMMING
17A1	HSS INTFC ASSY
17A1J1/P1	RCPT & PLUG HSS INTFC ASSY
17CB1	CB, HSS PWR
17DS1	IND, GNR HSS BIT
17J1/P1	RCPT & PLUG, GNR HELMET DISC
17J2/P2	RCPT & PLUG, PLT HELMET DISC
17K1	RELAY, HSS BIT TEST
17R1	LT CONT, HS RTCL
17R2	LT CONT, HS RTCL
17S1	SW, RTCL TEST
17S2	SW, HS RTCL LT CONT
17S3	SW, HS RTCL LT CONT
17S4	SW, RTCL TEST
17S5	SW, BIT
19A1	TURRET ASSY

Item No.	Nomenclature
19A1J1/P1	RCPT & PLUG, TURRET ASSY
19A2	LEFT SPEED CONTROL ASSY
19A3	RIGHT SPEED CONTROL ASSY
19A3J2/P2	RCPT & PLUG, RIGHT SPEED CONT ASSY
19A3J3	RCPT, RIGHT SPEED CONT ASSY (P/019A1)
19A5	LEFT AMMO BOX
19A5J1/P1	RCPT & PLUG, LEFT AMMO BOX
19A6	RIGHT AMMO BOX
19A6J1/P1	RCPT & PLUG, RIGHT AMMO BOX
19A9	ELECTRONIC CONT ASSY
19A9J1/P1	RCPT & PLUG, ELECTRONIC CONT ASSY
19A9J2/P2	RCPT & PLUG, ELECTRONIC CONT ASSY
19A9J3/P3	RCPT & PLUG, ELECTRONIC CONT ASSY
19A9J4/P4	RCPT & PLUG, ELECTRONIC CONT ASSY
19A9J5/P5	RCPT & PLUG, ELECTRONIC CONT ASSY
19A11	PLT SIGHT
19A11J1/P1	RCPT & PLUG, PILOT SIGHT
19A11J2/P2	RCPT & PLUG, PILOT SIGHT
19A12	AIRSPD XDCR ASSY
19A12J1/P1	RCPT & PLUG, AIRSPD XDCR ASSY
19CB1	CB, TURRET PWR
19CB2	CB, WPN PWR
19CB3	CB, WPN FIRE
19CB4	CB, TURRET PWR
19CB5	CB, TURRET PWR
19CR1	DIODE, BLOCKING
19CR2	DIODE, BLOCKING
19CR3	DIODE, BLOCKING
19CR4	DIODE, BLOCKING
19CR5	DIODE, BLOCKING
19CR10	DIODE, BLOCKING
19CR11	DIODE, BLOCKING
19CR12	DIODE, BLOCKING
19CR13	DIODE, BLOCKING
19CR14	DIODE, BLOCKING
19CR15	DIODE, BLOCKING
19CR16	DIODE, ARC SUPPR
19CR17	DIODE, BLOCKING
19CR18	DIODE, BLOCKING
19CR19	DIODE, BLOCKING

Table F-2.  Equipment list (armament) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
19CR20	DIODE, BLOCKING	19S8	SW, RANGE SELECT
19CR21	DIODE, BLOCKING	19S9	SW, TRIGGER
19CR22	DIODE, BLOCKING	19S10	SW, ACTION
19CR23	DIODE, BLOCKING	19S12	SW, MASTER ARM
19CR24	DIODE, BLOCKING	19S13	SW, WEAPON CONT
19CR25	DIODE, BLOCKING	19S14	SW, TURRET
19CR26	DIODE, BLOCKING	19S15	SW, PILOT SIGHT
19CR27	DIODE, BLOCKING	19S16	SW, TURRET DEPR LIMIT
19CR28	DIODE, BLOCKING	19TB1	TB, TURRET PWR
19DS1	IND, PLT WPN MIX	19TB2	TB, ARM/STBY PWR
19DS2	IND, PLT ARMT STATUS	19TB3	TB, ARMT
19DS3	IND, PLT IN CONT	19TB4	TB, ARMT
19DS4	IND, GNR WPN MIX	19TB5	TB, ARMT, HHS BIT IND
19DS5	IND, GNR ARMT STATUS	19XK59	RELAY, SOCKET
19KI	RELAY, GUN CLEARING	19XK72	RELAY, SOCKET
19K1J1/P1	RCPT & PLUG, GUN CLEANING RELAY	19XK80	RELAY, SOCKET
19K31	RELAY, MASTER ARM	19XK81	RELAY, SOCKET
19K59	RELAY, PLT/GNR CONT	19XK83	RELAY, SOCKET
19K72	RELAY, TRIG ENABLE	19XK84	RELAY, SOCKET
19K80	RELAY, GNR/PLT OVRD	19XK85	RELAY, SOCKET
19K81	RELAY, FXD/FWD	19XK86	RELAY, SOCKET
19K82	RELAY, PLT TRIG DISABLE	19XK87	RELAY, SOCKET
19K82J1/P1	RCPT & PLUG PLT TRIG DISABLE	19XK88	RELAY, SOCKET
19K83	RELAY, PLT ACTION DISC	19XK90	RELAY, SOCKET
19K84	RELAY, GNR ACTION DISC	19XK91	RELAY, SOCKET
19K85	RELAY, PLT TRIG/ACTION SW DISC	19XK92	RELAY, SOCKET
19K86	RELAY, PLT TRIG/ACTION SW ACTIVATE	20A1	TELESCOPIC SIGHT UNIT
19K87	RELAY, TOW/TURRET	20A1J01/P01	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19K88	RELAY, ACTION INTRPT	20A1J02/P02	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19K90	RELAY, GNR/PLT OVRD	20A1J03/P03	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19K91	RELAY, GNR IND LT DIMMING	20A1J04/P04	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19K92	RELAY, PLT IND LT DIMMING	20A1J05/P05	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19L1	SOLENOID, ARMT HYDR	20A1J06/P06	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19L1J1/P1	RCPT & PLUG ARMT HYDR SOLENOID	20A1J09/P09	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19M1	ROUNDS COUNTER	20A1J11/P11	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19M2	ROUNDS COUNTER	20A2	STBLN CONT AMPL
19R1	POT, PLT FIXED SIGHT RTCL	20A2J01/P01	STBLM CONT AMPL
19R2	POT, RANGE	20A2J02/P02	STBLM CONT AMPL
19R2J1/P1	RCPT & PLUG RANGE POT	20A2J03/P03	STBLN CONT AMPL
19S1	SW, TRIGGER	20A2J04/P94	STBLM CONT AMPL
19S2	SW, ACTION	20A4	TOW CONTROL PANEL
19S5	SW, TURRET	20A4J01/P01	RCPT & PLUG, TOW CONTROL PANEL
19S6	SW, COMPENSATION		
19S7	SW, PLT OVRD		

Table F-2. **P** Equipment list (armament) (Cont)

Item No.	Nomenclature
20A4J02/P02	RCPT & PLUG, TOW CONTROL PANEL
20A5	MSL CMD AMPL
20A5J01/P01	RCPT & PLUG, MSL CMD AMPL
20A5J02/P02	RCPT & PLUG, MSL CMD AMPL
20A5J03/P03	RCPT & PLUG, MSL CMD AMPL
20A5J04/P04	RCPT & PLUG, MSL CMD AMPL
20A6	SIGHT HAND CONTROL
20A6J01/P01	RCPT & PLUG, SIGHT HAND CONTROL
20A7	ELECTRONIC PWR SPLY
20A7J01/P01	RCPT & PLUG, ELECTRONIC PWR SPLY
20A7J02/P02	RCPT & PLUG, ELECTRONIC PWR SPLY
20A10	PLT STRG CONT
20A10J01/P01	RCPT & PLUG, PLT STRG IND
20A11	ACCLRM
20A11J1/P1	RCPT & PLUG, ACCLRM (LH)
20A12	ACCLRM
20A12J1/P1	RCPT & PLUG, ACCLRM (RH)
20A16	GNR ACCURACY CONT PNL
20A16J01/P01	RCPT & PLUG, GNR ACCURACY CONT PNL
20A20	SECU
20A20J1/P1	RCPT & PLUG, SECU
20A20J2/P2	RCPT — PLUG, SECU
20B1	RESOLVER
20B1J1/P1	RCPT & PLUG, RESOLVER
20B2	RESOLVER
20B2J1/P1	RCPT & PLUG, RESOLVER
20CB1	CB, 115 VAC 400 HZ
20CB3	CB, 115 VAC 400 HZ
20CR1	DIODE, BLOCKING
20CR2	DIODE, BLOCKING
20CR3	DIODE, BLOCKING
20CR4	DIODE, BLOCKING
20CR5	DIODE, BLOCKING
20CR6	DIODE, BLOCKING
20CR7	DIODE, BLOCKING
20CR8	DIODE
20CR9	DIODE
20CR10	DIODE
20CR11	DIODE
20CR12	DIODE
20CR13	DIODE
20CR14	DIODE
20CR15	DIODE

Item No.	Nomenclature
20DS1	IND, L-R TOW
20J1/P1	RCPT & PLUG, LCHR GM DISC
20J2/P2	RCPT & PLUG, LCHR GM DISC
20J237	RCPT, TEST SET-GUIDED MSL SYS
20J322	RCPT, TEST CONN
20J323/P323	RCPT & PLUG, TOW TAILBOOM DISC
20J324/P324	RCPT & PLUG, TOW TAILBOOM DISC
20J325/P325	RCPT & PLUG, TOW TAILBOOM DISC
20J326/P326	RCPT & PLUG, TOW TAILBOOM DISC
20J327/P327	RCPT & PLUG, TOW TAILBOOM DISC
20J328/P328	RCPT & PLUG, TOW TAILBOOM DISC
20J330	RCPT, TEST 1
20J331	RCPT, TEST 3
20J332	RCPT, TEST 2
20L1	TOW HYDR SOLV
20L1J1/P1	RCPT & PLUG, TOW HYDR SOLV
20L2	LCHR ACTR
20L2J1/P1	RCPT & PLUG, LCHR ACTR
20L3	LCHR ACTR
20L3J1/P1	RCPT & PLUG, LCHR ACTR
20P8	LCHR GDE MSL
20P8J01/P01	RCPT & PLUG, LCHR GDE MSL
20S1	SW, HAND SIGHT ACQ
20S2	SW, LCHR TEST
20S3	SW, PLT COLL STICK
20S8	LCHR GDE MSL
20S8J01/P01	RCPT & PLUG, LCHR GDE MSL
20TB1	TB, TOW MSL SYS PWR
20TB3	TB, TOW MSL SYS
21A1	PNL, PLT RKT CONT
21A1J1/P1	RCPT & PLUG, PLT RKT CONT PNL
21A2	INBD INTVLM
21A2J1/P1	RCPT & PLUG, INBD INTVLM
21A2J2/P2	RCPT & PLUG, INBD INTVLM
21A2J3/P3	RCPT & PLUG, INBD INTVLM
21A3	OUTBD INTVLM

Table F-2.  Equipment list (armament) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
21A3J1/P1	RCPT & PLUG, OUTBD INTVLM	21K5J1/P1	RCPT & PLUG, GNR JTSN CONT
21A3J2/P2	RCPT & PLUG, OUTBD INTVLM	21K6	RELAY, XM-18 GUN POD PWR
21A3J3/P3	RCPT & PLUG, OUTBD INTVLM	21K7	RELAY, TURRET INT
21A4	RH INBD RKT POD	21K7J1/P1	RCPT & PLUG, TURRET INT
21A4J1/P1	RCPT & PLUG, RH INBD RKT POD	21S1	SW, GNR JTSN
21A5	LH INBD RKT POD	21S2	SW, GNR JTS SEL
21A5J1/P1	RCPT & PLUG, LH INBD RKT POD	21S3	SW, PLT JTSN
21A6	RH OUTBD RKT POD	21S4	SW, PLT INBD JTSN
21A6J1/P1	RCPT & PLUG, RH OUTBD RKT POD	21S5	SW, PLT OUTBD JTSN
21A7	LH OUTBD RKT POD	21S6	SW, WG STORES SEL
21A7J1/P1	RCPT & PLUG, LH OUTBD RKT POD	21S7	SW, RKT PR SEL
21A8	LH XM-18 GUN POD	21S8	SW, GNR WG STORES SEL
21A8J1/P1	RCPT & PLUG, LH XM-18 GUN POD	21S9	SW, PLT WG ARM FIRE
21A9	RH XM-18 GUN POD	21SQ1	SQUIB, LH OUTBD
21A9J1/P1	RCPT & PLUG, RHXM-18 GUN POD	21SQ1J1/P1	RCPT & PLUG, LH OUTBD JTSN
21CB1	CB, PLT JTSN PWR	21SQ2	SQUIB, LH INBD
21CB2	CB, PLT JTSN	21SQ2J1/P1	RCPT & PLUG, LH INBD JTSN
21CB3	CB, LH XM-18 GUN POD	21SQ3	SQUIB, RH OUTBD
21CB4	CB, RH XM-18 GUN POD	21SQ3J1/P1	RCPT & PLUG, RH OUTBD JTSN
21CB5	CB, GNR JTSN PWR	21SQ4	SQUIB, RH INBD
21CB6	CB, RKT PWR	21SQ4J1/P1	RCPT & PLUG, RH INBD JTSN
21CR1	DIODE, BLOCKING	21XK2	SOCKET
21CR2	DIODE, BLOCKING	21XK6	SOCKET
21CR3	DIODE, JTSN	22A1	PNL, PLT MISC
21CR4	DIODE, JTSN	22A1J1/P1	RCPT & PLUG, PLT MISC PNL
21CR5	DIODE, JTSN	22A2	PNL, PLT CONT
21CR6	DIODE, JTSN	22A2J1/P1	RCPT & PLUG, PLT CONT PNL
21CR9	DIODE, ARC SUPPR	22A3	PNL, GNR ARMT
21DS1	IND, WG STORES ARM	22A3J1/P1	RCPT & PLUG, GNR ARMT PNL
21J1/P1	RCPT & PLUG, LH WG DISC	22A4	IFCU
21J2/P2	RCPT & PLUG RH WG DISC	22A4J311/P311	RCPT & PLUG, IFCU
21J3/P3	RCPT & PLUG, LH WG DISC	22A4J312/P312	RCPT & PLUG, IFCU
21J4/P4	RCPT & PLUG RH WG DISC	22A4J313/P313	RCPT & PLUG, IFCU
21K1	RELAY, XM-18 GUN POD PWR		
21K2	RELAY, JTSN CONT		
21K3	RELAY, PLT JTSN SW		
21K3J1/P1	RCPT & PLUG, PLT JTSN SW		
21K4	RELAY, PLT JTSN CONT		
21K4J1/P1	RCPT & PLUG, PLT JTSN CONT		
21K5	RELAY, GNR JTSN CONT		

Table F-3. **E** Equipment list (electrical)

Item No.	Nomenclature	Item No.	Nomenclature
1A1	PANEL, PLT ENG CONT	1E1	DETECTOR, CHIP - 42°
1A1J1/P1	RCPT & PLUG, PLT ENG CONT PNL	GRBX	
1A1J2/P2	RCPT & PLUG, PLT ENG CONT	1E2	DETECTOR, CHIP - 90°
1A2	PANEL, GNR MISC CONT	GRBX	
1A2J1/P1	RCPT & PLUG, GNR MISC CONT PNL	1E3	DETECTOR, CHIP - XMSN
*1A50	ACTUATOR, BYPASS DOOR	1E4	DETECTOR, CHIP - ENG
*1A50J1/P1	RCPT & PLUG, ACTUATOR BYPASS DOOR	1G1	GENERATOR, ROTOR TACH
1B1	VALVE, OIL BYPASS	1G1J1/P	RCPT & PLUG, ROTOR TACH GEN
1B1J1/P1	RCPT & PLUG, OIL BYPASS VALVE	1J1/P1	RCPT & PLUG, ENG DISC
1B2	PUMP, EMER HYD	1J2/P2	RCPT & PLUG, XMSN DISC
1B2J1/P1	RCPT & PLUG, EMER HYDR PUMP	1J3/P3	RCPT & PLUG, ENG OIL BYPASS
1B3	MOTOR, RPM ACTR	1J4/P4	RCPT & PLUG, STARTER/GEN
1B4	MOTOR, FUEL VALVE	1J5/P5	RCPT & PLUG, THERMOCOUPLE
1B4J1/P1	RCPT & PLUG, FUEL VALVE MOTOR	1J6/P6	RCPT & PLUG, ENG ACCESS
1B5	MOTOR, FWD FUEL BOOST	1K1	RELAY, FUEL LOW LEVEL
1B6	MOTOR, AFT FUEL BOOST	1K3	RELAY, STARTER
1CB1	CB, HYDR CONT	1K4	RELAY, EMER HYDR PUMP
1CB2	CB, EMER HYDR PUMP	1K5	RELAY, EMER HYDR CONT
1CB3	CB, IDLE STOP SOL	1K6	RELAY, OIL BYPASS
1CB4	CB, FUEL/OIL VALVE	1L1	SOLV, SYS 1 HYDR BYPASS
1CB5	CB, GOV CONT	1L1J1/P1	RCPT & PLUG, SYS 1 HYDR BYPASS SOL
1CB6	CB, IGN SOL	1L2	SOLV, SYS 2 HYDR BYPASS
1CB7	CB, STARTER RLY	1L2J1/P1	RCPT & PLUG, SYS 2 BYPASS SOL
1CB8	CB, ENG DE-ICE	1L3	SOLV, EMER HYDR (PRESS)
1CB9	CB, FWD FUEL BOOST	1L3J1/P1	RCPT & PLUG, EMER HYDR (PRESS) SOL
1CB10	CB, ENG/XMSN TEMP	1L4	SOLV, EMER HYDR (RETURN)
1CB11	CB, TURN/SLIP IND	1L4J1/P1	RCPT & PLUG, EMER HYDR (RETURN) SOL
1CB12	CB, AFT FUEL BOOST	1L5	SOLENOID, IDLE STOP
1CB16	CB, FUEL QTY	1M1	INDICATOR, TGT
1CB17	CB, TGT IND	1M1J1/P1	RCPT & PLUG, TGT IND
1CB18	CB, GAS PROD IND	1M2	INDICATOR, GAS PRODUCER
1CB19	CB, TRQ PRESS IND		
1CB20	CB, DUAL TACH		
1CB21	CB, ALTIMETER		
*1CB50	CB, PART SEP BYPASS		
1CR3	DIODE, ARC SUPPR		
1CR4	DIODE, ARC SUPPR		

Table F-3. **E** Equipment list (electrical) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
1M2J1/P1	RCPT & PLUG, GAS PRODUCER IND	1M22	INDICATOR, VERT SPEED-GNR
1M3	INDICATOR, DUAL TACH	1M22J1/P1	RCPT & PLUG, GNR VERT SPEED IND
1M3J1/P1	RCPT & PLUG, DUAL TACH IND	1M23	COMPASS, STBY-GNR
1M4	INDICATOR, TORQUE METER	1M23J1/P	RCPT & PLUG, GNR STBY COMPASS
1M4J1/P1	RCPT & PLUG, TORQUE METER IND	1MG1	STARTER/GENERATOR
1M5	INDICATOR, ALTIMETER	1MT2	XMTR, ENG OIL
1M5J1/P1	RCPT & PLUG, ALTIMETER IND	1MT2J1/P1	RCPT & PLUG, ENG OIL XMTR
1M6	INDICATOR, XMSN OIL	1MT3	XMTR, TORQUE
1M6J1/P1	RCPT & PLUG, XMSN OIL IND	1MT3J1/P1	RCPT & PLUG, TORQUE XMTR
1M7	INDICATOR, ENGINE OIL	1MT4	XMTR, XMSN OIL
1M7J1/P1	RCPT & PLUG, ENGINE OIL IND	1MT4J1/P1	RCPT & PLUG, XMSN OIL XMTR
1M8	INDICATOR, FUEL QTY	1MT5	XMTR, TORQUE
1M8J1/P1	RCPT & PLUG, FUEL QTY IND	1MT5J1/P1	RCPT & PLUG, TORQUE XMTR
1M10	INDICATOR, ALTIMETER	1RT1	BULB, XMSN OIL TEMP
1M10J1/P1	RCPT & PLUG, ALTIMETER IND	1RT1J1/P1	RCPT & PLUG, XMSN OIL TEMP BULB
1M11	INDICATOR, TGT	1S1	SW, RPM AUDIO
1M11J1/P1	RCPT & PLUG, TGT IND	1S4	SW, FWD FUEL BOOST
1M12	INDICATOR, GAS PRODUCER	1S4J1/P1	RCPT & PLUG, FWD FUEL BOOST SW
1M12J1/P1	RCPT & PLUG, GAS PRODUCER IND	1S5	SW, AFT FUEL BOOST
1M13	INDICATOR, DUAL TACH	1S5J1/P1	RCPT & PLUG, AFT FUEL BOOST SW
1M13J1/P1	RCPT & PLUG, DUAL TACH IND	1S6	SW, NO. 1 HYDR PRESS
1M14	INDICATOR, TORQUE	1S6J1/P1	RCPT & PLUG, NO. 1 PRESS SW
1M14J1/P1	RCPT & PLUG, TORQUE IND	1S7	SW, NO. 2 HYDR PRESS
1M18	INDICATOR, AIRSPEED-PLT	1S7J1/P1	RCPT & PLUG, NO. 2 HYDR PRESS SW
1M18J1/P1	RCPT & PLUG, PLT AIRSPEED IND	1S8	SW, XMSN OIL HOT
1M19	INDICATOR, VERT SPEED-PLT	1S9	SW, XMSN OIL PRESS
1M19J1/P1	RCPT & PLUG, PLT VERT SPEED IND	1S9J1/P1	RCPT & PLUG, XMSN OIL PRESS SW
1M20	CLOCK-PLT	1S10	SW, XMSN OIL BYPASS
1M20J1/P1	RCPT & PLUG, PLT CLOCK	1S11	SW, ENG FUEL PUMP PRESS
1M21	INDICATOR, AIRSPEED-GNR	1S12	SW, ENG FUEL PUMP PRESS
1M21J1/P1	RCPT & PLUG, GNR AIRSPEED	1S13	SW, ENG OIL PRESS
		1S13J1/P1	RCPT & PLUG, ENG OIL PRESS SW

Table F-3. **E** Equipment list (electrical) (Cont)

Item No.	Nomenclature
1S14	SW, FUEL FILTER BYPASS
1S14J1/P1	RCPT & PLUG, FUEL FILTER BYPASS SW
1S15	SW, ENG OIL FLOAT
1S16	SW, ENG OIL BYPASS
1S17	SW, HYDR TEST
1S18	SW, FWD FUEL LOW LEVEL
1S19	SW, AFT FUEL LOW LEVEL
1S20	SW, EMER HYDR PRESS
1S20J1/P1	RCPT & PLUG, EMER HYDR PRESS SW
1S22	SW, EMER HYDR PUMP
1S23	SW, EMER HYDR PUMP
1S24	SW, EMER HYDR PUMP OVLD
1S28	SW, GOV
1S29	SW, GOV RPM
1S30	SW, IDLE STOP
1S31	SW, ENG DE-ICE
1S32	SW, GOV
1S33	SW, FUEL
1S34	SW, ENG DE-ICE
1S35	SW, GOV RPM
1S36	SW, STARTER
1S37	SW, IDLE STOP
1S38	SW, FUEL QTY TEST
1S39	SW, IGNITION
1TB1	TB, ENG GND BUS
1TB3	TB, ENG INSTR JUNCTION
1TB4	TB, FUEL BOOST PRESS SW
1TB5	TB, ENG OIL BYPASS
1TB6	TB, FWD FUEL CELL
1TB7	TB, AFT FUEL CELL
1TB10	TB, ATTD IND
	TB, CENTRISEP
	PARTICLE SEPARATOR
1XK5	SOCKET, EMER HYDR RLY
1Z1	XMTR, FUEL QTY (FWD)
1Z1J1/P1	RCPT & PLUG, FUEL QTY XMTR (FWD)

Item No.	Nomenclature
1Z1J2/P2	RCPT & PLUG, FUEL QTY XMTR (FWD)
1Z1J3/P3	RCPT & PLUG, FUEL QTY XMTR (FWD)
1Z2	XMTR, FUEL QTY (AFT)
1Z2J1/P1	RCPT & PLUG, FUEL QTY XMTR (AFT)
1Z2J2/P2	RCPT & PLUG, FUEL QTY XMTR (AFT)
1Z3	DETECTOR, RPM
1Z3J1/P1	RCPT & PLUG, RPM DETECTOR
2A1	PANEL, DC CB
2A1J1/P1	RCPT & PLUG, DC CB PANEL
2A1J2/P2	RCPT & PLUG, DC CB PANEL
2A2	PANEL, PLT ELEC CONT
2A2J1/P1	RCPT & PLUG, PLT ELEC PNL
2BT1	BATTERY
2BT1J1/P1	RCPT & PLUG, BATTERY
2CB1	CB, LOADMETER
2CB2	CB, LOADMETER
2CB3	CB, GEN BUS RESET
2CB4	CB, GEN FIELD
2CB5	CB, DC VM
2CB6	CB, BATTERY CONTR
2CB7	CB, EXT PWR
2CB8	CB, ESNTL BUS
2CB9	CB, ARMT BUS
2CB10	CB, REV CUR RLY
2CR1	DIODE, ARC SUPPR
2CR2	DIODE, BLOCKING
2CR3	DIODE, BLOCKING
2CR4	DIODE, ARC SUPPR
2CR5	DIODE, BLOCKING
2CR6	DIODE, BLOCKING
2CR9	DIODE, ARC SUPPR
2CR10	DIODE, ARC SUPPR
2CR11	DIODE, ARC SUPPR
2CR12	DIODE, ARC SUPPR
2CR13	DIODE, ARC SUPPR
2J1	RCPT, EXT PWR
2K1	RELAY, EXT PWR
2K2	RELAY, BATTERY
2K4	RELAY, NON ESNTL
2K5	RELAY, REV CURRENT
2K6	RELAY, GEN FIELD

Table F-3. Equipment list (electrical) (Cont)

Item No.	Nomenclature
2K8	RELAY, BATTERY CONT
2K9	RELAY, ESNTL
2K10	RELAY, TRU ESNTL
2K11	RELAY, TRU NON ESNTL
2K12	RELAY, TRU ARMT
2K13	RELAY, ARMT
2K14	RELAY, REV CUR CONT
2K15	RELAY, TRU CONT
2K16	RELAY, EXT PWR
2K17	RELAY, ARMT CONT
2M1	METER, VOLT/LOAD
2M1J1/P1	RCPT & PLUG, VOLT/ AMMETER
2R1	SHUNT
2S1	SW, BATTERY
2S2	SW, NON ESNTL BUS
2S3	SW, GEN
2S4	SW, EMER PWR GNR
2TB1	TB, RLY INTERFACE
2TB2	TB, DC FEEDERS
2VR1	VOLTAGE REGULATOR
2VR1J1/P1	RCPT & PLUG, VOLTAGE REG
2XK4	SOCKET, NON ESNTL RLY
2XK5	SOCKET, REV CURRENT RLY
2XK6	SOCKET, GEN FIELD RLY
2XK8	SOCKET, BATTERY CONT RLY
2XK14	SOCKET, REV CURR CONT RLY
2XK15	SOCKET, TRU CONT RLY
2XK16	SOCKET, EXT PWR RLY
2XK17	SOCKET, ARMT CONT RLY
3A1	PANEL, AC/ARMT CB
3A1J1/P1	RCPT & PLUG, AC/ARMT CB PNL
3C1	CAP, PF CORR
3C2	CAP, PF CORR
3CB1	CB, INVTR
3CB2	CB, TRU
3CB3	CB, 28 VAC XFMR
3CB4	CB, ENG VIB METER
3CB5	CB, PF CORR
3CB6	CB, TRU
3CB7	CB, INVTR

Item No.	Nomenclature
3G1	ALTERNATOR
3G1J1/P1	RCPT & PLUG, ALTERNATOR
3G1J2/P2	RCPT & PLUG, ALTERNATOR
3J1	RCPT, ENG VIB METER
3J2/P2	RCPT & PLUG, ALTERNATOR DISC
3K1	RELAY, AC SOURCE
3K2	RELAY, AC CONT
3PS1	INVERTER
3PS1J1/P1	RCPT & PLUG, INVERTER
3PS1J2/P2	RCPT & PLUG, ALTERNATOR
3PS2	XMFR-RECTIFIER UNIT
3PS2J1/P1	RCPT & PLUG, XFMR RECT UNIT
3S1	SW, ALTERNATOR
3T1	XFMR, REF
3T1J1/P1	RCPT & PLUG, REF XFMR
3T2	XFMR, Y-DELTA
3T2J1/P1	RCPT & PLUG, Y-DELTA XFMR
3T3	XFMR, CUR
3T3J1/P1	RCPT & PLUG, CUR XFMR
3T4	XFMR, 115/28 VAC
3VR1	CONTROL, ALTERNATOR
3VR1J1/P1	RCPT & PLUG, ALTERNATOR CONTROL
3XK2	SOCKET, AC CONT RLY
4A1	PANEL, PLT INSTRUMENT
4A1A1	PANEL, PLT LTG CONT
4A1A1J1	RCPT, PLT LTG CONT PNL
4A1J1/P1	RCPT & PLUG, PLT INSTRUMENT PNL
4A2	STICK, PLT COLL
4A2J1/P1	RCPT & PLUG, PLT COLL STICK
4A3	STICK, PLT CYC
4A3J1/P1	RCPT & PLUG, PLT CYC STICK
4CB1	CB, PLT ATTD IND
4M1	AD1, PLT
4M1J1/P1	RCPT & PLUG, PLT ATTD IND
4Z1	GYRO, ATTITUDE
4Z1J1/P1	RCPT & PLUG, ATTD GYRO
4Z2	XMTR, RATE GYRO
4Z2J1/P1	RCPT & PLUG, RATE GYRO

Table F-3. **E** Equipment list (electrical) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
5A1	PANEL, GNR INSTR	8CR6	DIODE, BLOCKING
5A1A1	PANEL, TCP DIMMING CONT	8CR7	DIODE, BLOCKING
5A1A1J1	RCPT, TCP DIMMING	8CR8	DIODE, BLOCKING
	CONT PNL	8CR9	DIODE, BLOCKING
5A1J1/P1	RCPT & PLUG, GNR INSTR	8DS1	LT, LH NAV
	PNL	8DS2	LT, RH NAV
5A1A2	PANEL, PHS ACQ	8DS3	LT, LH TAIL
5A1A2J1	RCPT, PHS ACQ PNL	8DS4	LT, RH TAIL
5A1A3	PANEL, JET/HYDR PUMP	8DS5	LT, ANTI COLL
5A1A3J1	RCPT, JET/HYDR PUMP	8DS5J1/P1	RCPT & PLUG, ANTI
	PNL		COLL LT
5A2	CYCLIC STICK, GNR	8DS6	LT, SEARCH
5A2J1/P1	RCPT & PLUG, GNR	8DS7	LT, PLT WARNING MATRIX
	CYCLIC STICK	8DS10	LT, PLT FIRE WARNING
5CB1	CB, GNR ATTD IND	8DS11	LT, GNR MASTER CAUTION
5M1	ATTD IND, GNR	8DS13	LT, PLT COCKPIT
5M1J1/P1	RCPT & PLUG, GNR	8DS14	LT, PLT COCKPIT
	ATTD IND	8DS15	LT, GNR COCKPIT
8A2	PANEL, PLT CAUTION	8DS16	LT, XMSN OIL LEVEL
8A2J1/P1	RCPT & PLUG, PLT	8DS25	LIGHT/SWITCH, LOW
	CAUTION PNL		G WARNING
8A3	PANEL, GNR CAUTION	8J3/P3	RCPT & PLUG, ANTI
8A3J1/P1	RCPT & PLUG, GNR		COLL LT DISC
	CAUTION PNL	8J105	RCPT, PANEL LT
8A4	BOARD, LTG CONT PC	8J106	RCPT, PANEL LT
8A5	BOARD, LTG CONT PC	8J107	RCPT, PANEL LT
8A6	BOARD, NVG PC	8J108	RCPT, PANEL LT
8A10	ASSEMBLY, LOW G WARNING	8J109	RCPT, PANEL LT
8A10P1	PLUG LOW G WARNING	8J112	RCPT, AC/ARMT CB
8A11	ACCELEROMETER		PNL LTG
8A11P1	PLUG, ACCELEROMETER	8K1	RELAY, DIM
8CB1	CB, POSITION LT	8K2	RELAY, NVG
8CB2	CB, ANTI-COLLISION LT	8K1	RELAY, GNR NVG
8CB3	CB, SRCH LT CONT	8K3	RELAY, PLT NVG
8CB4	CB, SRCH LT PWR	8K4	RELAY, PLT NVG
8CB5	CB, GNR INST LT	8M1	COUNTER
8CB6	CB, PLT INSTR LT	8PS1	PWR SUPPLY, GNR
8CB7	CB, CAUTION LT		INSTR LT
8CB8	CB, COCKPIT LT	8PS1J1/P1	RCPT & PLUG, GNR
8CB9	CB, FIRE DET		INSTR LT PWR SUPPLY
8CB10	CB, RPM	8PS2	PWR SUPPLY, PLT TAC LT
8CB11	CB, XMSN OIL LEVEL LT	8PS2J1/P1	RCPT & PLUG, PLT
8CB15	CB, LOW G		TAC LT PWR SUPPLY
8CR1	DIODE, FWD FUEL BOOST	8PS3	PWR SUPPLY, PLT
8CR2	DIODE, AFT FUEL BOOST		FLT INSTR LT
8CR3	DIODE, ENG OIL BYPASS	8PS3J1/P1	RCPT & PLUG, PLT FLT
8CR4	DIODE, BLOCKING		INSTR LT PWR SUPPLY
8CR5	DIODE, BLOCKING	8PS4	PWR SUPPLY, PLT ENG
			INSTR LT

Table F-3. **E** Equipment list (electrical) (Cont)

Item No.	Nomenclature
8PS4J1/P1	RCPT & PLUG, PLT ENG INSTR LT PWR SUPPLY
8Q1	TRANSISTOR, NVG
8Q2	TRANSISTOR, NVG
8Q3	TRANSISTOR, NVG
8Q4	TRANSISTOR, NVG
8Q5	TRANSISTOR, NVG
8Q6	TRANSISTOR, NVG
8R1	RESISTOR, NAV LT
8R2	RESISTOR, FIRE DET TEST
8R3	POTENTIOMETER, GNR INSTR LT
8R4	POTENTIOMETER, GNR CSL LT
8R5	POTENTIOMETER, GNR TCP LT
8R10	POTENTIOMETER, PLT TAC LT
8R11	POTENTIOMETER, PLT FLT INSTR LT
8R12	POTENTIOMETER, PLT ENG INSTR LT
8R13	POTENTIOMETER, PLT CSL LT
8R14	POTENTIOMETER, PLT RAD ALT DIG READ
8R20	RESISTOR
8R21	RESISTOR
8RT1	DETECTOR, FIRE SENSE ELEMENT
8RT1J1/P1	RCPT & PLUG, FIRE DET SENSE ELEM
8RT1J2/P2	RCPT & PLUG, FIRE DET SENSE ELEM
8S1	SW, NAV LT
8S2	SW, NAV LT
8S3	SW, ANTI COLLISION LT
8S4	SW, SEARCH LT
8S5	SW, SEARCH LT
8S6	SW, EXT PWR DOOR
8S7	SW, FIRE DET TEST
8S8	SW, XMSN OIL LEVEL LT
8S9	SW, GNR NVG
8S10	SW, GNR NVG
8S11	SW, PLT NVG
8S12	SW, NVG ENABLE
8TB1	TB, TAIL LT
8TB3	TB, PANEL LTG

Item No.	Nomenclature
8TB4	TB, LTG/CAUTION
8TB5	TB, GNR LTG
8TB6	TB, PLT NVG LTG
8TB7	TB, PLT NVG LTG
8TB8	TB, GNR NVG LTG
8TB15	TB, LOW G WARNING
8XA4	SOCKET, LTG CONT PC BOARD
8XA5	SOCKET, LTG CONT PC BOARD
8XA6	CONNECTOR, GNR NVG
8XK1	SOCKET, GNR NVG RLY
8XK3	SOCKET, PLT NVG RLY
8XK4	SOCKET, PLT NVG RLY
8Z1	FLASHER, NAV LT
8Z1J1/P1	RCPT & PLUG, NAV LT FLASHER
8Z2	UNIT, FIRE DET
8Z2J1/P1	RCPT & PLUG, FIRE DET UNIT
9CB1	CB, FORCE TRIM
9CB2	CB, SCAS PWR
9CB3	CB, SCAS PWR
9L1	BRAKE, ANTI-TORQUE MAG
9L1J1/P1	RCPT & PLUG, ANTI TRQ MAG BRAKE
9L2	BRAKE, LATERAL MAG
9L2J1/P1	RCPT & PLUG, LATERAL MAG BRAKE
9L3	BRAKE, FORE/AFT MAG
9L3J1/P1	RCPT & PLUG, FORE/AFT MAG BRAKE
9S1	SW, FORCE TRIM PLT
9S2	SW, FORCE TRIM PLT
9S3	SW, FORCE TRIM GNR
10A1	PANEL, PLT LTG/ECS
10A1J1/P1	RCPT & PLUG, PLT LTG/ECS PNL
10B1	VALVE, TEMP SENSING
10B1J1/P1	RCPT & PLUG, TEMP SENSING VALVE
10B2	BLOWER, TOW COMPT
10B2J1/P1	RCPT & PLUG, TOW COMPT BLO
10B3	BLOWER, RADIO
10C1	CAPACITOR, RADIO BLO
10CB1	CB, ECS CONT
10CB2	CB, PITOT HTR
10CB3	CB, TMS BLO

Table F-3. **E** Equipment list (electrical) (Cont]

Item No.	Nomenclature	Item No.	Nomenclature
10CB4	CB, RADIO BLO	17CB1	CB, HSS PWR
10CR1	SEMICONDUCTOR, TOW OVHT BLO	19CB1	CB, TURRET CONT
10CR2	DIODE, TOW BLO RLY	19CB2	CB, WPN CONT
10HR1	TUBE, PITOT	19CB3	CB, WPN FIRE
10HR1J1/P1	RCPT & PLUG, PITOT TUBE	19CB4	CB, TURRET PWR
10J1/P1	RCPT & PLUG, TAILBOOM DISC	19CB6	CB, TURRET STOW
10J2/P2	RCPT & PLUG, PITOT HTR	19CB7	CB, TURRET DRIVE MOTOR
10K1	RELAY, HEATER CONT	19CB8	CB, TURRET GUN MOTOR
10K2	RELAY, TOW BLO	19K90	RELAY, ARMT
10L1	VALVE, BLEED AIR	19TB3	TB, ARMT
10L1J1/P1	RCPT & PLUG, BLEED AIR VALVE	19XK90	SOCKET, ARMT RELAY
10L3	SOLENOID, RAIN REMOVAL	20CB1	CB, TOW PWR
10L4	SOLENOID, RAIN REMOVAL	20CB2	CB, TSGMS PWR
10R1	RESISTOR, ENVIR CONT	20CB3	CB, SECU PWR
10S1	SW, PITOT HTR	20CB4	CB, REF XFMR
10S2	SW, ENVIR CONT	20CB5	NB, TMS PWR
10S3	SW, DUCT OVHT	21CB2	CB, PLT JTSN
10S4	SW, TOW COMPT OVHT	21CB3	CB, LH GUN
10S5	SENSOR, TOW BLO OVLD	21CB4	CB, RH GUN
10S6	SW, RADIO BLOWER	21CB5	CB, GNR JTSN
10S7	SW, RAIN REMOVAL	21CB6	CB, WING STORE PWR
10TB1	TB, OVHT SW	21J1/P1	RCPT & PLUG, LH WING DISC
10XK1	SOCKET, HTR CONT RLY	21J2/P2	RCPT & PLUG, RH WING DISC
10Z1	UNIT, ENVIR CONT	22A1	PANEL, PLT MISC
10Z1J1/P1	RCPT & PLUG, ENVIR CONT UNIT	22A1J1/P1	RCPT & PLUG, PLT MISC PNL
		3410S1	SW, CODE HOLD

Table F-4. Equipment list (armament)

Item No.	Nomenclature
1A2	MISC CONT PNL, GNR
1A2J1/P1	RCPT & PLUG, GNR MISC CONT PNL
1K5	RELAY, EMER HYDR
1TB10	TB, ATTD IND
1XK5	SOCKET, EMER HYDR RLY
2A1	PANEL, DC CB
2A1J2	RCPT, DC CB PNL
2K12	RELAY, ARMT
2K13	RELAY, TRU ARMT
2K17	RELAY, ARMT CONT
2XK17	SOCKET, ARMT CONT RLY
3A1	AC/ARMT CB PNL
3A1J1/P1	RCPT & PLUG, AC/ARMT CB PNL
3T1	REFERENCE XFMR
3T1J1/P1	RCPT & PLUG, REFERENCE XFMR
4/A1	INSTR PNL, PLT
4A1J1/P1	RCPT & PLUG, PLT INSTR PNL
4A2	PLT CLTV STICK
4A2J1/P1	RCPT & PLUG, PLT CLTV STICK
4A3	PLT CYCLIC STICK
4A3J1/P1	RCPT & PLUG, PLT CYCLIC STICK
5A1	PANEL, GNR INSTR
5A1J1/P1	RCPT & PLUG, GNR INSTR PNL
5A2	GNR CYCLIC STICK
5A2J1/P1	RCPT & PLUG, GNR CYCLIC STICK
8A2	CAUTION PNL, PLT
8A2J1/P1	RCPT & PLUG, PLT CAUTION PANEL
8J102	RCPT, GNR ARMT CONT PNL
8J103	RCPT, GNR ARMT CONT PNL
8J104	RCPT, PLT ARMT CONT PNL
8TB4	TB, INTERIOR LTG
8TB5	TB, LTG
8TB7	TB, LTG
8TB8	TB, LTG
8XA5	CONN, PLT AVG

Item No.	Nomenclature
10CB3	CB, TMS BLOWER
17A1	IFCU
17A1J1/P1	RCPT & PLUG, IFCU
17CB1	CB, HSS PWR
17CR1	DIODE, BLOCKING
17CR2	DIODE, BLOCKING
17CR3	DIODE, BLOCKING
17CR4	DIODE, BLOCKING
17CR5	DIODE, BLOCKING
17CR6	DIODE, BLOCKING
17CR7	DIODE, BLOCKING
17CR8	DIODE, BLOCKING
17DS1	INDICATOR, GNR HSS BIT
17J1/P1	RCPT & PLUG, GNR HELMET DISC
17J2/P2	RCPT & PLUG, PLT HELMET DISC
17R1	POTENTIOMETER, RETICLE
17R2	POTENTIOMETER, RETICLE
17S1	SW, RETICLE
17S2	SW, RETICLE
17S3	SW, RETICLE
17S4	SW, RETICLE
17S5	SW, RETICLE
19A1	ARMT COMP UNIT, SCAS
19A1J1/P1	RCPT & PLUG, ARMT COMP UNIT (SCAS)
19A2	TURRET ASSY
19A3	CONTROL UNIT, TURRET ASSY
19A3J242/ P242	RCPT & PLUG, TURRET CONTROL UNIT
19A3J244/ P244	RCPT & PLUG, TURRET CONT UNIT
19A3J245/ P245	RCPT & PLUG, TURRET CONT UNIT
19A4	CONTROL UNIT, GUN
19A4J249/ P249	RCPT & PLUG, GUN CONT UNIT
19A4J270/ P270	RCPT & PLUG, GUN CONT UNIT
19A4J271/ P271	RCPT & PLUG, GUN CONT UNIT
19A5	CONTROL UNIT, LOGIC

Table F-4. **E** Equipment list (armament) (Cont)

Item No.	Nomenclature
19A5J1/P1	RCPT & PLUG, LOGIC CONTROL UNIT
19A5J2/P2	RCPT & PLUG, LOGIC CONTROL UNIT
19A6	AMPL, BUFFER
19A12	PRESS XDCR
19A12J1/P1	RCPT & PLUG, PRESS XDCR
19A13	SIGHT SUPPORT, PLT
19A13J1/P1	RCPT & PLUG, PLT SIGHT SUPPORT
19A13J2/P2	RCPT & PLUG, PLT SIGHT SUPPORT
19B1	BOOSTER MOTOR
19B1J1/P1	RCPT & PLUG, BOOSTER MOTOR
19CB1	CB, TURRET CONT
19CB2	CB, WEAPON CONT
19CB3	CB, WPN FIRE
19CB4	CB, TURRET PWR
19CB6	CB, TURRET STOW
19CB7	CB, TURRET DRIVE MOTOR
19CB8	CB, TURRET GUN MOTOR
19CB126	CB, AMMO LOAD
19CR1	DIODE, BLOCKING
19CR2	DIODE, BLOCKING
19CR3	DIODE, BLOCKING
19CR4	DIODE, BLOCKING
19CR5	DIODE, BLOCKING
19CR6	DIODE, BLOCKING
19CR7	DIODE, BLOCKING
19CR8	DIODE, BLOCKING
19CR9	DIODE, BLOCKING
19CR10	DIODE, BLOCKING
19CR11	DIODE, BLOCKING
19CR12	DIODE, BLOCKING
19CR14	DIODE, BLOCKING
19CR15	DIODE, TURRET GUN PWR RLY
19CR16	DIODE, MA ARM RLY
19CR17	DIODE, WPN CONT SW
19CR18	DIODE, WPN CONT SW
19CR19	DIODE, AMMO LOAD RLY
19CR20	DIODE, TURRET PWR RLY
19DS2	INDICATOR, ARMED/STBY
19DS3	INDICATOR, PLT IN CONT
19DS5	INDICATOR, ARMED/STBY

Item No.	Nomenclature
19J1	RCPT, TEST SIGNAL
19J2	RCPT, TEST PWR
19J243/ P243A/P243B	RCPT & PLUGS, TURRET DISC
19J247/P247	RCPT & PLUG, TURRET
19J248/P248	RCPT & PLUG, TURRET
19J250/P240	RCPT & PLUG, TURRET DISC
19K5	RELAY, TURRET GUN PWR
19K6	RELAY, AMMO LOAD
19K7	RELAY, TURRET PWR
19K8	RELAY, BURST LIMIT
19K31	RELAY, MA ARM
19K38	RELAY, WEAPON STBY
19K59	RELAY, WEAPON CONT
19K80	RELAY, PLT GNR OVRD
19K81	RELAY, FIXED FWD
19K82	RELAY, PLT TRIG DSBL
19K82J1/P1	RCPT & PLUG, PLT TRIG DSBL RLY
19K83	RELAY, PLT ACTN DSBL
19K84	RELAY, GNR ACTN DSBL
19K85	RELAY, PLT TRIG/ACTN DSBL
19K86	RELAY, PLT TRIG/ACTN ACT
19K87	RELAY, TOW/TURRET
19K88	RELAY, ACTN/INTRPT
19K91	RELAY, GNR ARMT IND LT DIM
19K92	RELAY, PLT ARMT IND LT DIM
19K95	RELAY, TRK RT TUR STAT
19K98	RELAY, PLT ACTN ENBL
19K101	RLAY, RETICLE FLASHER BYP
19K102	RLAY, RNG ENBL
19K106	RELAY, WING STORES ENBL
19M1	INDICATOR, ROUNDS REMAINING
19R1	POTENTIOMETER
19R5	RESISTOR
19R6	RESISTOR
19R13	RESISTOR
19R14	RESISTOR
19R15	RESISTOR
19S1	SW, TRIGGER

Table F-4.  Equipment list (armament) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
19S2	SW, ACTION	19XK92	SOCKET, PLT ARMT IND LT DIM RLY
19S3	SW, SLEW RATE	19XK95	SOCKET, TRK RT TUR STAT RLY
19S4	SW, RECOIL COMP	19XK98	SOCKET, PLT ACTN ENBL RLY
19S5	SW, RNG	19XK101	SOCKET, RCTL FLASHER BYP RLY
19S6	SW, AIRSPEED COMP	19XK102	SOCKET, RNG ENBL RLY
19S7	SW, PLT OVRD	19XK106	SOCKET, WING STORES ENBL RLY
19S8	SW, RNG	20A1	TELESCOPIC SIGHT UNIT
19S9	SW, PLT ACTION	20A1J01/P01	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19S10	SW, PLT TRIGGER	20A1J02/P02	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19S12	SW, MA ARM	20A1 J03/P03	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19S13	SW, WEAPON CONT	20A1J04/H04	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19S15	SW, PLT SIGHT	20A1J05/P05	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19S16	SW, TURRET DEPR LIMIT	20A1J06/P06	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19S17	SW, AMMO LOAD	20A1J09/P09	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19S18	SW, TURRET PWR OVLD SENSOR	20A1J11/P11	RCPT & PLUG, TELESCOPIC SIGHT UNIT
19S19	SW, TURRET GUN OVLD SENSOR	20A2	STBLN CONT AMPL
19S20	TURRET BOOSTER OVLD SENSOR	20A2J01/P01	RCPT & PLUG, STBLN CONT AMPL
19TB4	TB, TURRET	20A2J02/P02	RCPT & PLUG, STBLN CONT AMPL
19TB5	TB, TURRET	20A2J031P03	RCPT & PLUG, STBLN CONT AMPL
19TB6	TB, TURRET	20A2J041P04	RCPT & PLUG, STBLN CONT AMPL
19XK8	SOCKET, BURST LIMIT RLY	20A4	TOW CONTROL PNL
19XK38	SOCKET, WEAPON STBY RLY	20A4J01/P01	RCPT & PLUG, TOW CONT PNL
19XK59	SOCKET, WEAPON CONT RLY	20A4J02/P02	RCPT & PLUG, TOW CONT PNL
19XK80	SOCKET, GNR PLT OVRD RLY	20A5	MSL CMD AMPL
19XK81	SOCKET, FIXED FWD RLY	20A5J01/P01	RCPT & PLUG, MSL CMD AMPL
19XK83	SOCKET, PLT ACTN DSBL RLY	20A5J02/P02	RCPT & PLUG, MSL CMD AMPL
19XK84	SOCKET, GNR ACTN DSBL RLY		
19XK85	SOCKET, PLT TRIG/ACTN DSBL RLY		
19XK86	SOCKET, PLT TRIG/ACTN ACT RLY		
19XK87	SOCKET, TOW/TURRET RLY		
19XK88	SOCKET, ACTN INTRPT RLY		
19XK91	SOCKET, GNR ARMT IND LT DIM RLY		

Table F-4. **E** Equipment list (armament) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
20A5J03/P03	RCPT & PLUG, MSL CMD AMPL	20CR10	DIODE, BLOCKING
20A5J04/P04	RCPT & PLUG, MSL CMD AMPL	20CR11	DIODE, BLOCKING
20A6	SIGHT HAND CONTROL	20CR12	DIODE, BLOCKING
20A6J01/P01	RCPT & PLUG, SIGHT HAND CONT	20CR13	DIODE, BLOCKING
20A7	ELECTRONIC PWR SUPPLY	20CR14	DIODE, BLOCKING
20A7J01/P01	RCPT & PLUG, ELEC PWR SPLY	20CR15	DIODE, BLOCKING
20A7J02/P02	RCPT & PLUG, ELEC PWR SPLY	20DS1	INDICATOR, L-R TOW
20A7J031P03	RCPT & PLUG, ELEC PWR SPLY	20J1/P1	RCPT & PLUG, LAUNCHER GM DISC
20A10	PLT STRG CONT	20J2/P2	RCPT & PLUG, LAUNCHER GM DISC
20A10J01/P01	RCPT & PLUG, PLT STRG IND	20J237	RCPT, TEST SET
20A11	ACCLRM	20J323/P323	RCPT & PLUG, TOW TAILBOOM DISC
20A11J1/P1	RCPT & PLUG, ACCLRM LH	20J324/P324	RCPT & PLUG, TOW TAILBOOM DISC
20A12	ACCLRM	20J325/P325	RCPT & PLUG, TOW TAILBOOM DISC
20A12J1/P1	RCPT & PLUG, ACCLRM RH	20J326/P326	RCPT & PLUG, TOW TAILBOOM DISC
20A16	GNR ACCURACY CONT PNL	20J327/P327	RCPT & PLUG, TOW TAILBOOM DISC
20A16J01/P01	RCPT & PLUG, GNR ACCURACY CONT PNL	20J328/P328	RCPT & PLUG, TOW TAILBOOM DISC
20A16J01A	RCPT, GNR ACCURACY CONT PNL	20J330	RCPT, TEST 1
20A20	SECU	20J331	RCPT, TEST 3
20A20J1/P1	RCPT & PLUG, SECU	20J332	RCPT, TEST 2
20A20J21P2	RCPT & PLUG, SECU	20K1	RELAY, TMS INTERLOCK
20B1	RESOLVER	20K94	RELAY, TSU TRK RT SEL
20B1J1/P1	RCPT & PLUG, RESOLVER	20L1	TOW HYDR SOL
20B2	RESOLVER	20L1J1/P1	RCPT & PLUG, HYDR SOL
20B2J1/P1	RCPT & PLUG, RESOLVER	20L2	LAUNCHER ACTR SOL
20CB2	CB, TEST SET	20L2J1/P1	RCPT & PLUG, LAUNCHER ACTR
20CB3	CB, SECU PWR	20L3	LAUNCHER ACTR SOL
20CB4	CB, REF XFMR	20L3J1/P1	RCPT & PLUG, LAUNCHER ACTR
20CB5	CB, TMS PWR	20P8	LAUNCHER, GUIDED MISSILE
20CR1	DIODE, BLOCKING	20/8J01/P01	RCPT & PLUG, LCHR GM
20CR2	DIODE, BLOCKING	20SS1	SW, PLT HAND SIGHT ACQ
20CR3	DIODE, BLOCKING	20S2	SW, LAUNCHER TEST
20CR4	DIODE, BLOCKING	20S3	SW, PLT CLTV STICK
20CR5	DIODE, BLOCKING	20S8	LAUNCHER, GUIDED MISSILE
20CR6	DIODE, BLOCKING	20S8J01/P01	RCPT & PLUG, LCHR GM
20CR7	DIODE, BLOCKING		
20CR8	DIODE, BLOCKING		
20CR9	DIODE, BLOCKING		

Table F-4.  Equipment list (armament) (Cont)

Item No.	Nomenclature
20TB1	TB, TMS PWR
20TB3	TB, TMS
20XK94	SOCKET, TSU TRK RT SQ RLY
21A1	INTEGRATED CONTROL AND DISPLAY UNIT
21A1J1/P1	RCPT & PLUG, INTEGRATED CONT AND DISP UNIT
21A2	STATION UNIT, RH OUTBD
21A2J1/P1	RCPT & PLUG, RH OUTBD STA UNIT
21A2J2/P2	RCPT & PLUG, RH OUTBD STA UNIT
21A3	STATION UNIT, RH INBD
21A3J1/P1	RCPT & PLUG, RH INBD STA UNIT
21A3J2/P2	RCPT & PLUG, RH INBD STA UNIT
21A4	STATION UNIT, LH OUTBD
21A4J1/P1	RCPT & PLUG, LH OUTBD STA UNIT
21A4J2/P2	RCPT & PLUG, LH OUTBD STA UNIT
21A5	STATION UNIT, LH INBD
21A5J1/P1	RCPT & PLUG, LH INBD STA UNIT
21A5J2/P2	RCPT & PLUG, LH INBD STA UNIT
21A6	RKT POD, RH OUTBD
21A6J1/P1	RCPT & PLUG, RH OUTBD RKT FUSES
21A6J2/P2	RCPT & PLUG, RH OUTBD RKT SQUIBS
21A7	RKT POD, RH INBD
21A7J1/P1	RCPT & PLUG, RH INBD RKT FUSES
21A7J2/P2	RCPT & PLUG, RH INBD RKT SQUIBS
21A8	RKT POD, LH OUTBD
21A8J1/P1	RCPT & PLUG, LH OUTBD RKT FUSES
21A8J2/P2	RCPT & PLUG, LH OUTBD RKT SQUIBS
21A9	RKT POD, LH INBD

Item No.	Nomenclature
21A9J1/P1	RCPT & PLUG, LH INBD RKT FUSES
21A9J2/P2	RCPT & PLUG, LH INBD RKT SQUIBS
21A10	XM-18 GUN POD RH
21A10J1/P1	RCPT & PLUG, RH XM-18 GUN POD
21A11	XM-18 GUN POD LH
21A11J1/P1	RCPT & PLUG, LH XM-18 GUN POD
21CB2	CB, PLT JTSN
21CB3	CB, LH GUN
21CB4	CB, RH GUN
21CB5	CG, GNR JTSN
21CB6	CB, WING STORES PWR
21CR1	DIODE, BLOCKING
21CR2	DIODE, BLOCKING
21CR3	DIODE, JTSN
21CR4	DIODE, JTSN
21CR9	DIODE, XM-18 PWR RLY
21J1/P1	RCPT & PLUG, WING DISC LH
21J2/P2	RCPT & PLUG, WING DISC RH
21K1	RELAY, SM-18 PWR
21K2	RELAY, JTSN CONT
21K3	RELAY, PLT JTSN SW
21K3J1/P1	RCPT & PLUG, PLT JTSN SW RLY
21K4	RELAY, PLT JTSN CONT
21K4J1/P1	RCPT & PLUG, PLT JTSN CONT RLY
21K5	RELAY, GNR JTSN CONT
21K5J1/P1	RCPT & PLUG, GNR JTSN CONT RLY
21K6	RELAY, WING STORES DSBL
21K7	RELAY, TURRET INTRPT
21K7J1/P1	RCPT & PLUG, TURRET INTRPT RLY
21S1	SW, JTSN
21S2	SW, JTSN SEL
21S3	SW, JTSN
21S4	SW, INBD JTSN SEL
21S5	SW, OUTBD JTSN SEL
21S6	SW, WING STORES SEL
21S8	SW, WING STORES SEL
21S9	SW, WING ARMT FIRE

Table F-4.  Equipment list (armament) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
21S10	SW, WING ARMT FIRE	22A3	CONT PNL, GNR ARMT
21SQ1	SQUIB, LH OUTBD JTSN	22A3J1/P1	RCPT & PLUG, GNR ARMT CONT PNL
21SQ1J1/P1	RCPT & PLUG, LH OUTED SQUIB	22A4	IFCU
21SQ2	SQUIB, LH INBD JTSN	22A4J311/P11	RCPT & PLUG, IFCU
21SQ2J1/P1	RCPT & PLUG, LH INBD SQUIB	22A4J312/P312	RCPT & PLUG, IFCU
21SQ3	SQUIB, RH OUTBD JTSN	22A4J313/P313	RCPT & PLUG, IFCU
21SQ3J1/P1	RCPT & PLUG, RH OUTBD SQUIB	1A1	PANEL, PILOT ENG CONT
21SQ4	SQUIB, RH INBD JTSN	1A1P1	PLUG, PILOT ENG CONT
21SQ4J1/P1	RCPT & PLUG, RH INBD SQUIB	1A1P2	PANEL
21XK2	SOCKET, JTSN CONT RLY	1A2	PLUG, PILOT ENG CONT
21XK6	SOCKET, WING STORES DSBL RLY	1A2P1	PANEL, GUNNER MISCELLANEOUS
22A1	PANEL, PLT MISC		PLUG, GUNNER MISCELLANEOUS PANEL
22A1J1/P1	RCPT & PLUG, PLT MiSC PNL		
22A2	CONT PNL, PLT ARMT		
22A2J1/P1	RCPT & PLUG, PLT ARMT CONT PNL		

Table F-5. 

Equipment list (electrical)

Item No.	Nomenclature
GBSCB1	CIRCUIT BREAKER, GPS
GPSP1	TRIMPACK RECEIVER
GPSP3	TRIMPACK RECEIVER
VPAP1	VPA TRIMPACK
VPATB1	VPA TRIMPACK
1B1	VALVE, OIL BYPASS
1B1P1	PLUG, OIL BYPASS VALVE
1B2	PUMP, EMER HYDR
1B2P1	PLUG, EMER HYDR PUMP
1B3	MOTOR, RPM ACTUATOR
1B4	MOTOR, FUEL VALVE
1B4P1	PLUG, FUEL VALVE MOTOR
1B5	MOTOR, FWD FUEL BOOST
1B6	MOTOR, AFT FUEL BOOST
1CB1	CIRCUIT BREAKER, HYDR CONT
1CB2	CIRCUIT BREAKER, EMER HYDR PUMP
1CB3	CIRCUIT BREAKER, IDLE STOP SOL
1CB4	CIRCUIT BREAKER, FUEL/OIL VALVE
1CB5	CIRCUIT BREAKER, GOV CONT
1CB6	CIRCUIT BREAKER, IGN SOL
1CB7	CIRCUIT BREAKER, STARTER RELAY
1CB8	CIRCUIT BREAKER, ENG DEICE
1CB9	CIRCUIT BREAKER, FWD FUEL BOOST
1CB10	CIRCUIT BREAKER, ENG/XMSN TEMP
1CB11	CIRCUIT BREAKER, TURN/SLIP IND
1CB12	CIRCUIT BREAKER, AFT FUEL BOOST
1CB16	CIRCUIT BREAKER, FUEL QTY
1CB17	CIRCUIT BREAKER, TGT IND
1CB18	CIRCUIT BREAKER, GAS PROD IND
1CB19	CIRCUIT BREAKER, TRG IND
1CB20	CIRCUIT BREAKER, DUAL TACK
1CB21	CIRCUIT BREAKER, ALTIMETER

Item No.	Nomenclature
1CR3	DIODE, ARC SUPPRESSOR
1CR4	DIODE, ARC SUPPRESSOR
1E1	DETECTOR, INTERMEDIATE (42°) GEARBOX CHIP
1E2	DETECTOR, TAIL ROTOR (90°) GEARBOX CHIP
1E3	DETECTOR, TRANSMISSION CHIP
1E4	DETECTOR, ENGINE CHIP
1G1	GENERATOR, ROTOR TACH
1G1P1	PLUG, ROTOR TACH GENERATOR
1K1	RELAY, FUEL LOW LEVEL
1K3	RELAY, STARTER
1K4	RELAY, EMER HYDR PWR
1KS	RELAY, EMER HYDR CONT
1K6	RELAY, OIL BYPASS
1L1	VALVE, SYS 1 HYDR BYP SOLENOID
1L1P1	PLUG, SYS 1 HYDR BYP SOLENOID VALVE
1L2	VALVE, SYS 2 HYDR BYP SOLENOID
1L2P1	PLUG, SYS 2 HYDR BYP SOLENOID VALVE
1L3	VALVE, EMER HYDR (PRESS) SOLENOID
1L3P1	PLUG, EMER HYDR (PRESS) SOLENOID VALVE
1L4	VALVE, EMER HYDR (RETURN) SOLENOID
1L4P1	PLUG, EMER HYDR (RETURN) SOLENOID VALVE
1L5	SOLENOID, IDLE STOP
1M1	INDICATOR, TGT
1M1P1	PLUG, TGT INDICATOR
1M2	INDICATOR, GAS PRODUCER
1M2P1	PLUG, GAS PRODUCER INDICATOR
1M3	INDICATOR, DUAL TACHOMETER
1M3P1	PLUG, DUAL TACHOMETER INDICATOR
1M4	INDICATOR, TORQUE
1M4P1	PLUG, TORQUE INDICATOR
1M5	INDICATOR, ALTIMETER

Table F-5. **M** Equipment list (electrical) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
1M5P1	PLUG, ALTIMETER INDICATOR	MT3P1	PLUG, TORQUE TRANSMITTER
1M6	INDICATOR, TRANSMISSION OIL	MT4	TRANSMITTER, TRANSMISSION OIL
1M6P1	PLUG, TRANSMISSION OIL INDICATOR	1MT4P1	PLUG, TRANSMISSION OIL TRANSMITTER
1M7	INDICATOR, ENGINE OIL	1MT5	TRANSMITTER, TORQUE
1M7P1	PLUG, ENGINE OIL INDICATOR	1MT5P1	PLUG, TORQUE TRANSMITTER
1M8	INDICATOR, FUEL QUANTITY	1P1	PLUG, ENGINE DISCONNECT
1M8P1	PLUG, FUEL QUANTITY INDICATOR	1P2	PLUG, TRANSMISSION DISCONNECT
1M10	INDICATOR, ALTIMETER	1P3	PLUG, ENGINE OIL BYPASS
1M10P1	PLUG, ALTIMETER INDICATOR	1P4	PLUG, STARTER/GENERATOR
1M11	INDICATOR, TGT	1P5	PLUG, THERMOCOUPLE
1M11P1	PLUG, TGT INDICATOR	1P6	PLUG, ENGINE ACCESS
1M12	INDICATOR, GAS PRODUCER	1RT1	TEMP BULB, TRANSMISSION OIL
1M12P1	PLUG, GAS PRODUCER INDICATOR	1RT1P1	PLUG, TRANSMISSION OIL TEMP BULB
1M13	INDICATOR, DUAL TACHOMETER	1S1	SWITCH, RPM AUDIO
1M13P1	PLUG, DUAL TACHOMETER INDICATOR	1S4	SWITCH, FWD FUEL BOOST
1M14	INDICATOR, TORQUE	1S4P1	PLUG, FWD FUEL BOOST
1M14P1	PLUG, TORQUE INDICATOR		SWITCH
1M18	INDICATOR, PLT AIRSPEED	1S5	SWITCH, AFT FUEL BOOST
1M18P1	PLUG, PLT AIRSPEED INDICATOR	1S5P1	PLUG, AFT FUEL BOOST
1M19	INDICATOR, PLT VERTICAL SPEED		SWITCH
1M19P1	PLUG, PLT VERTICAL SPEED INDICATOR	1S6	SWITCH, NO 1 HYDR PRESS
1M20	CLOCK, PLT	1S6P1	PLUG, NO. 1 HYDR PRESS
1M20P1	PLUG, PLT CLOCK		SWITCH
1M21	INDICATOR, GNR AIRSPEED	1S7	SWITCH, NO 2 HYDR PRESS
1M21P1	PLUG, GEAR AIRSPEED INDICATOR	1S7P1	PLUG, NO 2 HYDR PRESS
1M22	INDICATOR, GNR VERTICAL SPEED		SWITCH
1M22P1	PLUG, GNR VERTICAL SPEED INDICATOR	1S8	SWITCH, XMSN OIL HOT
1M23	COMPASS, GNR STANDBY	1S9	SWITCH, XMSN OIL PRESS
1M23P1	PLUG, GNR STANDBYCOMPASS	1S9P1	PLUG, XMSN OIL PRESS
1MG1	GENERATOR, STARTER		SWITCH
1MT2	TRANSMITTER, ENGINE OIL	1S10	SWITCH, XMSN OIL BYPASS
1MT2P1	PLUG, ENGINE OIL TRANSMITTER	1s11	SWITCH, ENG FUEL PUMP PRESS
1MT3	TRANSMITTER, TORQUE	1S12	SWITCH, ENG FUEL PUMP PRESS
		1S13	SWITCH, ENG OIL PRESS
		1S13P1	PLUG, ENG OIL PRESS
			SWITCH
		1S14	SWITCH, FUEL FILTER BYPASS
		1S14P1	PLUG, FUEL FILTER BYPASS SWITCH
		1S15	SWITCH, ENG OIL FLOAT
		1S16	SWITCH, ENG OIL BYPASS
		1S17	SWITCH, HYDR TEST

Table F-5.  Equipment list (electrical (Cont))

Item No.	Nomenclature	Item No.	Nomenclature
1S18	SWITCH, FWD FUEL LOW LEVEL	1Z1P2	PLUG, FUEL QUANTITY TRANSMITTER
1S19	SWITCH, AFT FUEL LOW LEVEL	1Z1P3	PLUG, FUEL QUANTITY TRANSMITTER
		1Z2	TRANSMITTER, FUEL QUANTITY
		1Z2P1	PLUG, FUEL QUANTITY TRANSMITTER
		1Z3	DETECTOR, RPM
		1Z3P1	PLUG, RPM DETECTOR
1S20	SWITCH, EMER HYDR PRESS	2A1	PANEL, DC CIRCUIT BREAKER
1S20P1	PLUG, EMER HYDR PRESS SWITCH	2A1P1	PLUG, DC CIRCUIT BREAKER PANEL
1S22	SWITCH, EMER HYDR PUMP	2A1P2	PLUG, DC CIRCUIT BREAKER PANEL
1S23	SWITCH, EMER HYDR PUMP	2A2	PANEL, PILOT ELECTRICAL CONTROL
1S24	SWITCH, EMER HYDR PUMP OVLD	2A2P1	PLUG, PILOT ELECTRICAL CONTROL PANEL
1S28	SWITCH, GOV	2BT1	BATTERY
1S29	SWITCH, GOV RPM	2BT1P1	PLUG, BATTERY
1S30	SWITCH, IDLE STOP	2CB1	CIRCUIT BREAKER, LOADMETER
1S31	SWITCH, ENG DEICE	2CB2	CIRCUIT BREAKER, LOADMETER
1S32	SWITCH, GOV	2CB3	CIRCUIT BREAKER, GEN BUS RESET
1S33	SWITCH, FUEL	2CB4	CIRCUIT BREAKER, GEN FIELD
1S34	SWITCH, ENG DEICE	2CB5	CIRCUIT BREAKER, DCVM
1S35	SWITCH, GOV RPM	2CB6	CIRCUIT BREAKER, BATTERY CONT
1S34	SWITCH, STARTER	2CB7	CIRCUIT BREAKER, EXT PWR
1S37	SWITCH, IDLE STOP	2CB8	CIRCUIT BREAKER, ESNTL BUS
1S38	SWITCH, FUEL QTY TEST	2CB9	CIRCUIT BREAKER, ARMT BUS
1S39	SWITCH, IGNITION	2CB10	CIRCUIT BREAKER, REV CUR RLY
1TB1	TERMINAL BOARD, ENG GND BUS	2CR1	DIODE, ARC SUPPRESSOR
1TB3	TERMINAL BOARD, INSTR JCT	2CR4	DIODE, ARC SUPPRESSOR
1TB4	TERMINAL BOARD, FUEL BOOST PRESS SW	2CR5	DIODE, BLOCKING
1TB5	TERMINAL BOARD, ENG OIL BYPASS	2CR9	DIODE, ARC SUPPRESSOR
1TB6	TERMINAL BOARD, FUEL SYSTEM	2CR10	DIODE, ARC SUPPRESSOR
1TB7	TERMINAL BOARD, FUEL SYSTEM	2CR11	DIODE, ARC SUPPRESSOR
1TB10	TERMINAL BOARD, ATTD IND	2CR12	DIODE, ARC SUPPRESSOR
		2CR13	DIODE, ARC SUPPRESSOR
1XK5	SOCKET – EMER HYDR RELAY	2CR14	DIODE, BLOCKING
1Z1	TRANSMITTER, FUEL QUANTITY	2CR15	DIODE, BLOCKING
1Z1P1	PLUG, FUEL QUANTITY TRANSMITTER	2J1	RECEPTACLE, EXTERNAL POWER
		2K1	RELAY, EXTERNAL POWER
		2 K 2	RELAY, BATTERY

Table F-5. **M** Equipment list (electrical) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
2K3	RELAY, BATTERY CONTROL	3CB1	CIRCUIT BREAKER, INVTR
2K4	RELAY, NON-ESSENTIAL	3CB2	CIRCUIT BREAKER, TRU
2K5	RELAY, REVERSE CURRENT	3CB3	CIRCUIT BREAKER 28 VAC XFMR
2K6	RELAY, GENERATOR FIELD	3CB4	CIRCUIT BREAKER, ENG VIB METER
2K8	RELAY, BATTERY CONTROL	3CB5	CIRCUIT BREAKER, PF CORR
2K9	RELAY, ESSENTIAL	3CB6	CIRCUIT BREAKER, TRU
2K10	RELAY, TRU ESSENTIAL	3CB7	CIRCUIT BREAKER, INVTR
2K11	RELAY, TRU NON-ESSENTIAL	3G1	ALTERNATOR
2K12	RELAY, TRU ARMAMENT	3G1P1	PLUG, ALTERNATOR
2K13	RELAY, ARMAMENT	3G1P2	PLUG, ALTERNATOR
2K14	RELAY, REVERSE CURRENT CONTROL	3J1	RECEPTACLE, ENGINE VIB METER
2K15	RELAY, TRU CONTROL	3K1	RELAY, AC SOURCE
2K16	RELAY, EXTERNAL POWER	3K2	RELAY, AC CONTROL
2K17	RELAY, ARMAMENT CONTROL	3PS1	INVERTER
2K18	RELAY, SCAS POWER	3PS1P1	PLUG, INVERTER
2K20	RELAY, REV CUR CONT IN ACTN	3PS1P2	PLUG, INVERTER
2K20P1	PLUG, REV CUR CONT IN ACTN	3PS2	UNIT, TRANSFORMER-RECTIFIER
2M1	METER, VOLT/LOAD	3PS2P1	PLUG, TRANSFORMER-RECTIFIER UNIT
2M1P1	PLUG, VOLT/LOAD METER	3S1	SWITCH, ALTERNATOR
2R1	SHUNT	3T1	TRANSFORMER, REFERENCE
2S1	SWITCH, BATTERY	3T1P1	PLUG, REFERENCE TRANSFORMER
2S2	SWITCH, NON-ESNTL BUS	3T2	TRANSFORMER, 115/28 VAC
2S3	SWITCH, GENERATOR	3T3	TRANSFORMER, CURRENT
2S4	SWITCH, EMER PWR GNR	3T3P1	PLUG, CURRENT TRANSFORMER
2TB1	TERMINAL BOARD, RELAY INTERFACE	3VR1	CONTROL, ALTERNATOR
2TB2	TERMINAL BOARD, DC FEEDERS	3VR1P1	PLUG, ALTERNATOR CONTROL
2VR1	REGULATOR, VOLTAGE	3XK2	SOCKET, AC CONTROL RELAY
2VR1P1	PLUG, VOLTAGE REGULATOR	4A1	PANEL, PILOT INSTRUMENT
2XK3	SOCKET, RELAY	4A1A1	PANEL, PILOT LIGHTING CONTROL
2XK6	SOCKET, RELAY	4A1P1	PLUG, PILOT INSTRUMENT PANEL
2XK8	SOCKET, RELAY	4A2	STICK, PILOT COLLECTIVE
2XK14	SOCKET, RELAY	4A2P1	PLUG, PILOT COLLECTIVE STICK
2XK15	SOCKET, RELAY	4A3	STICK, PILOT CYCLIC
2XK16	SOCKET, RELAY	4A3P1	PLUG, PILOT CYCLIC STICK
2XK17	SOCKET, RELAY	4CB1	CIRCUIT BREAKER, PLT ATTD IND
2XK18	SOCKET, RELAY	4M1	INDICATOR, PILOT ATTITUDE
3A1	PANEL, AC CIRCUIT BREAKER	4M1P1	PLUG, PILOT ATTITUDE INDICATOR
3A1J3	RECEPTACLE, AC CB PNL LTG	4Z1	GYRO, ATTITUDE
3A1P1	PLUG, AC CIRCUIT BREAKER PANEL	4Z1P1	PLUG, ATTITUDE GYRO
3A1P2	PLUG, AC CIRCUIT BREAKER PANEL	4Z2	GYRO, RATE
3C1	CAPACITOR, POWER FACTOR CORRECTION	4Z2P1	PLUG, RATE GYRO
3C2	CAPACITOR, POWER FACTOR CORRECTION	5A1	PANEL, GUNNER INSTRUMENT
		5A1A1	PANEL, LASER RANGE
		5A1A2	PANEL, PHS ACQ

Table F-5. **M** Equipment list (electrical) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
5A1A3	PANEL, JET/HYDR PUMP	8CR7	DIODE, BLOCKING
5A1P1	PLUG, GUNNER INSTRUMENT PANEL	8CR8	DIODE, BLOCKING
5A2	STICK, GUNNER CYCLIC	8CR9	DIODE, BLOCKING
5A2P1	PLUG, GUNNER CYCLIC STICK	8DS1	LIGHT, LH NAVIGATION
5CB1	CIRCUIT BREAKER, GNR ATTD IND	8DS2	LIGHT, RH NAVIGATION
5M1	INDICATOR, GUNNER ATTITUDE	8DS3	LIGHT, LH TAIL
5M1P1	PLUG, GUNNER ATTITUDE INDICATOR	8DS4	LIGHT, RH TAIL
8A2	PANEL, PILOT CAUTION	8DS5	LIGHT, ANTICOLLISION
8A2P1	PLUG, PILOT CAUTION PANEL	8DS5P1	PLUG, ANTICOLLISION LIGHT
8A3	PANEL, GUNNER CAUTION	8DS6	LIGHT, SEARCH
8A3P1	PLUG, GUNNER CAUTION PANEL	8DS10	LIGHT, PILOT FIRE WARNING
8A4	PCB, LIGHTING CONTROL	8DS11	LIGHT, GUNNER MASTER CAUTION
8A5	PCB, LIGHTING CONTROL	80S13	LIGHT, PILOT COCKPIT
8A6	PCB, LIGHTING CONTROL	8DS14	LIGHT, PILOT COCKPIT
8A10	ASSEMBLY, LOW G WARNING	8DS15	LIGHT, GUNNER COCKPIT
8A10P1	PLUG LOW G WARNING	8DS16	LIGHT, XMSN OIL LEVEL
8A11	ACCELEROMETER	80S17	LIGHT, PLT WARNING MATRIX
8A11P1	PLUG, ACCELEROMETER	80S18	LIGHT, PLT WARNING MATRIX
8CB1	CIRCUIT BREAKER, POSITION LT	8DS25	LIGHT/SWITCH, LOW G WARNING
8CB2	CIRCUIT BREAKER, ANTI-COLLISION LT	8J101	RECEPTACLE, PLT ELEC PNL
8CB3	CIRCUIT BREAKER, SCHLT CONT	8J105	RECEPTACLE, PANEL LIGHTING
8CB4	CIRCUIT BREAKER, SCHLT PWR	8J106	RECEPTACLE, PANEL LIGHTING
8CB5	CIRCUIT BREAKER, GNR INSTR LT	8J107	RECEPTACLE, PANEL LIGHTING
8CB6	CIRCUIT BREAKER, PLT INSTR LT	8J108	RECEPTACLE, PANEL LIGHTING
8CB7	CIRCUIT BREAKER, CAUTION LT	8J109	RECEPTACLE, PANEL LIGHTING
8CB8	CIRCUIT BREAKER, COCKPIT LT	8J111	RECEPTACLE, DC CB PNL
8CB9	CIRCUIT BREAKER, FIRE DET	8K1	RELAY, DIM
8CB10	CIRCUIT BREAKER, RPM WARNING	BK2	RELAY, NVG
8CB11	CIRCUIT BREAKER, XMSN OIL LEVEL LT	BM1	COUNTER
8CB15	CB, LOW G	8P3	PLUG, ANTICOLLISION LT DISC
8CR1	DIODE, FWD FUEL BOOST	BP5	PLUG, NVG PCB DISC
8CR2	DIODE, AFT FUEL BOOST	BPS1	POWER SUPPLY, GNR INSTR LT
8CR3	DIODE, ENG OIL BYPASS	BPS1P1	PLUG, GNR INSTR LT POWER SUPPLY
3CR4	DIODE, BLOCKING	BPS2	POWER SUPPLY, PLT TACTICAL LT
3CR5	DIODE, BLOCKING	BPS2P1	PLUG, PLT TACTICAL LT POWER SUPPLY
3CR6	DIODE, BLOCKING	BPS3	POWER SUPPLY, PLT FLT INSTR LT
		BPS3P1	PLUG, PLT FLT INSTR LT POWER SUPPLY
		8PS4	POWER SUPPLY, PLT ENG INSTR LT
		8PS4P1	PLUG, PLT ENG INSTR LT POWER SUPPLY

Table F-5. **M** Equipment list (electrical) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
8Q1	TRANSISTOR, NVG	8TB15	TB, LOW G WARNING
8Q2	TRANSISTOR, NVG	8TP1	TEST POINT, LTG
8Q3	TRANSISTOR, NVG	8TP2	TEST POINT, LTG
8Q4	TRANSISTOR, NVG	8TP3	TEST POINT, LTG
8Q5	TRANSISTOR, NVG	8TP4	TEST POINT, LTG
8Q6	TRANSISTOR, NVG	8TP5	TEST POINT, LTG
8R1	RESISTOR, NAV LT	8TP6	TEST POINT, LTG
8R2	RESISTOR, FIRE DET TEST	8TP7	TEST POINT, LTG
8R3	POTENTIOMETER, GNR INSTR LT	8TP8	TEST POINT, LTG
8R4	POTENTIOMETER, GNR CSL LT	8XA4	RECEPTACLE, PLT NVG
8R5	POTENTIOMETER, GNR TCP LT	8XA5	RECEPTACLE, PLT NVG
8R10	POTENTIOMETER, PLT TACTICAL L-T	8XA6	RECEPTACLE, PLT NVG
8R11	POTENTIOMETER, PLT FLT INSTR LT	8Z1	FLASHER, NAV LT
8R12	POTENTIOMETER, PLT ENG INSTR LT	8Z1P1	PLUG, NAV LT FLASHER
8R13	POTENTIOMETER, PLT CSL LT	8Z2	UNIT, FIRE DETECTOR
8R14	POTENTIOMETER, PLT RAD ALT DIG READ	BZ2P1	PLUG, FIRE DETECTOR UNIT
8R20	RESISTOR	9CB1	CIRCUIT BREAKER, FORCE TRIM
8R21	RESISTOR	9CB2	CIRCUIT BREAKER, SCAS PWR
8R27	RESISTOR, EMITTING LOAD	9CB3	CIRCUIT BREAKER, SCAS PWR
8RT1	ELEMENT, FIRE DET SENSE	10A1	PANEL, PILOT LTG/ECS
8RT1P1	PLUG, FIRE DET SENSE ELEMENT	10A1P1	PLUG, PILOT LTG/ECS PANEL
8RT1P2	PLUG, FIRE DET SENSE ELEMENT	10B1	VALVE, TEMP SENSING
8S1	SWITCH, NAV LT	10B1P1	PLUG, TEMP SENSING
8S2	SWITCH, NAV LT	10B2	BLOWER, TOW COMPT
8S3	SWITCH, ANTICOLLISION LT	10B2P1	PLUG, TOW COMPT BLOWER
8S4	SWITCH, SEARCH LT	10B3	BLOWER, RADIO
8S5	SWITCH, SEARCH LT	10C1	CAPACITOR, RADIO BLOWER
8S6	SWITCH, EXT PWR DOOR	10CB1	CIRCUIT BREAKER, ECS CONT
8S7	SWITCH, FIRE DET TEST	10CB2	CIRCUIT BREAKER, PILOT HTR
8S8	SWITCH, XMSN OIL LEVEL LT	10CB3	CIRCUIT BREAKER, TOW BLO
8S9	SWITCH, GNR NVG	10CB4	CIRCUIT BREAKER, RADIO BLO
8S10	SWITCH, GNR NVG	10CR1	SEMICONDUCTOR, TOW OVHC BLOWER
8S11	SWITCH, PLT NVG	10CR2	DIODE, TOW BLO RELAY
8S12	SWITCH, NVG ENABLE	10HR1	HEATER, PITOT
8TB1	TERMINAL BOARD, TAIL LT	10HR1P1	PLUG, PITOT HEATER
8TB3	TERMINAL BOARD, PANEL LTG	10K1	RELAY, HEATER CONTROL
8TB4	TERMINAL BOARD, LTG JCT	10K2	RELAY, TOW BLOWER
8TB5	TERMINAL BOARD, GNR LTG	10L1	VALVE, BLEED AIR
8TB 6	TERMINAL BOARD, PLT NIGHT VISION	10L1P1	PLUG, BLEED AIR VALVE
8TB7	TERMINAL BOARD, PLT NIGHT VISION	10L3	SOLENOID, RAIN REMOVAL
8TB8	TERMINAL BOARD, GNR NIGHT VISION	10L4	SOLENOID, RAIN REMOVAL
		10P1	PLUG, TAILBOOM DISCONN
		10P2	PLUG, PITOT HEATER
		10R1	RESISTOR, ENVIRONMENTAL CONTROL

Table F-5.  Equipmnt list (electrical) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
10S1	SWITCH, PITOT HTR	21P2	PLUG, RH WING DISCONNECT
10S2	SWITCH, ENVIR CONT	22A1	PANEL, PILOT
10S3	SWITCH, DUCT OVHT		MISCELLANEOUS
10S4	SWITCH, TOW COMPY OVHT	22A1P1	PLUG, PILOT
10S5	SWITCH, OVLD SENSOR - TOW BLO		MISCELLANEOUS PANEL
10S6	SWITCH, RADIO BLOWER	22A5	ASSEMBLY, LOGIC RELAY
10S7	SWITCH, RAIN RMV	22A5A1	ASSEMBLY, PLT RELAY
10TB1	TERMINAL BOARD, OVERHEAT SWITCH	22A5A1K1	RELAY, PLT NVG
10XK1	SOCKET, HEATER CONTROL RELAY	2A5A1P1	PLUG, LOGIC RELAY
10Z1	UNIT, ENVIRONMENTAL CONTROL		ASSEMBLY
10Z1P1	PLUG, ENVIRONMENTAL CONTROL UNIT	22A5K1	RELAY, GNR NVG
21P1	PLUG, LH WING DISCONNECT	22A5K2	RELAY, PLT NVG
		22A5K3	RELAY, PLT OVRD
		22A5P1	PLUG, LOGIC RELAY
			ASSEMBLY
		22A5P2	PLUG, LOGIC RELAY
			ASSEMBLY

Table F-6. **M** Equipment list (armament)

Item No.	Nomenclature	Item No.	Nomenclature
AIMTB1	TERMINAL BOARD	8TB4	TERMINAL BOARD, LTG/CAUT
AIM1P1	AIM-1 /EXL LASER	8TB5	TERMINAL BOARD, GNR LTG
K1	SWITCH/RELAY, AIM	8TB7	TERMINAL BOARD, PLT NVG LTG
1A2P1	PLUG, GNR MISC CONT PNL	BTB8	TERMINAL BOARD, GNR NVG LTG
1K5	RELAY, EMERGENCY HYDRAULIC	BZ3	ASSEMBLY, DIMMING RELAY
1M4	METER, ENGINE TORQUE	BZ4	ASSEMBLY, DIMMING RELAY
1M4P1	PLUG, ENGINE TORQUE METER	9TB1	TERMINAL BOARD, SCAS
1TB10	TERMINAL BOARD, ATTD IND	10A1	PANEL, PLT LTG/ECS
1TB13	TERMINAL BOARD	10A1P1	PLUG, PLT LTG/ECS PANEL
1XK5	SOCKET, RELAY	10CB3	CIRCUIT BREAKER, TMS BLOWER
2CB9	CIRCUIT BREAKER, TRU BUS	10CB4	CIRCUIT BREAKER, RADIO BLOWER
2CB10	CIRCUIT BREAKER, REV CUR RLY	10S1	SWITCH PLT ADS HTR
2K12	RELAY, TRU ARMAMENT	16A1	COMPUTER, FIRE CONTROL
2K13	RELAY, ARMAMENT	16A1P1	PLUG, FIRE CONTROL COMPUTER
2K16	RELAY, EXTERNAL POWER	16A1P2	PLUG, FIRE CONTROL COMPUTER
2K17	RELAY, ARMAMENT CONTROL	16A1P3	PLUG, FIRE CONTROL COMPUTER
2K20	RELAY, RVS CUR CONT IN ACTN	16A2	PROCESSOR, HUD SIGNAL
2TB2	TERMINAL BOARD, DC POWER	16A2P1	PLUG, HUD SIGNAL PROCESSOR
2XK16	SOCKET, RELAY	16A2P2	PLUG, HUD SIGNAL. PROCESSOR
2XK17	SOCKET, RELAY	16A3	PANEL, ALT CONTROL.
3A1	PANEL, AC/ARMT CB	16A3P1	PLUG, ALT CONTROL PANEL
3A1P1	PLUG, AC/ARMT CB PANEL	16A3P2	PLUG, ALT CONTROL PANEL
3A1P2	PLUG, AC/ARMT CB PANEL	16A4	UNIT, ALT ELECTRONICS
3T1	TRANSFORMER, REFERENCE	16A4P1	PLUG, ALT ELECTRONICS UNIT
3T1P1	PLUG, REFERENCE TRANSFORMER	16A4P2	PLUG, ALT ELECTRONICS UNIT
3TB2	TERMINAL BOARD, REF XFMR	16A4P3	PLUG, ALT ELECTRONICS UNIT
4A1P1	PLUG, PLT INSTR PNL	16A5	UNIT, ALT RECEIVER
4A2	STICK, PILOT COLLECTIVE	16A5P1	PLUG, ALT RECEIVER UNIT
4A2P1	PLUG, PILOT COLLECTIVE STICK	16A5P2	PLUG, ALT RECEIVER UNIT
4A3	STICK, PILOT CYCUC	16A8	UNIT, LASER ELECTRONICS
4A3P1	PLUG, PILOT CYCLIC STICK	16A9	TRANSDUCER, COLLECTIVE POSITION
5A1	PANEL, GUNNER INSTRUMENT	16A9P1	PLUG, COLLECTIVE POSITION TRANSDUCER
5A1P1	PLUG, GUNNER INSTRUMENT PANEL	16CB1	CIRCUIT BREAKER, HUD BLOWER
5A2	STICK, GUNNER CYCLIC	16CB2	CIRCUIT BREAKER, ALT PWR - A C
5A2P1	PLUG, GUNNER CYCLIC STICK		
8A2P1	PLUG, CAUTION PANEL		
8J102	RECEPTACLE, GNR ARMT CONT PNL		
8J103	RECEPTACLE, GNR ARMT CONT PNL		
8J104	RECEPTACLE, PLT ARMT CONT PNL		

Table F-6. **M** Equipmnt list (armament) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
16CB3	CIRCUIT BREAKER FCC PWR	17R1	POTENTIOMETER, RETICLE
16CB4	CIRCUIT BREAKER, HUD PWR	17R2	POTENTIOMETER, RETICLE
16CB5	CIRCUIT BREAKER, ALT PWR – DC	17S1	SWITCH, RETICLE TEST
16CB6	CIRCUIT BREAKER, LRF PWR	17S2	SWITCH, RETICLE DIMMING
16CR1	DIODE, LOGIC	17S3	SWITCH, RETICLE DIMMING
16CR2	DIODE, LOGIC	17S4	SWITCH, RETICLE TEST
16CR3	DIODE, BLOCKING	17S5	SWITCH, BIT
16CR4	DIODE, BLOCKING	18A1	PROCESSOR, AIR DATA
16CR5	DIODE, ZENER	18A1P1	PLUG, AIR DATA PROCESSOR
16CR6	DIODE, LOGIC	18A2	PROBE, AIR DATA SYSTEM
16CR7	DIODE, LOGIC	18A2P1	PLUG, AIR DATA SYSTEM PROBE
16CR8	DIODE, LOGIC	18A3	INDICATOR, LOW AIRSPEED
16CR9	DIODE, LOGIC	18A3P1	PLUG, LOW AIRSPEED INDICATOR
16DS1	UNIT, HEAD UP DISPLAY	18CB1	CIRCUIT BREAKER, ADS PWR
16DS1P1	PLUG, HEAD Up DISPLAY UNIT	18CB2	CIRCUIT BREAKER, ADS ANTI-ICE
16K6	RELAY, RAD ALT LOW LIMIT	19A1	UNIT, SCAS ARMT COMP
16K7	RELAY, RAD ALT HIGH LIMIT	19A1P1	PLUG, SCAS ARMT COMP UNIT
16K8	RELAY, HUD/TSU RETICLE	19A2	TURRET
16R1	POTENTIOMETER, MINIMUM RANGE	19A3	ASSEMBLY, TURRET CONTROL
16R2	RESISTOR	19A3P242	PLUG, TURRET CONT ASSEMBLY
16R3	RESISTOR	9A3P244	PLUG, TURRET CONT ASSEMBLY
16S1	SWITCH, RANGE DISPLAY	9A3P245	PLUG, TURRET CONT ASSEMBLY
16S2	SWITCH, LRF DISPLAY RESET	19A4	ASSEMBLY, GUN CONTROL
16TB1	TERMINAL BOARD, FCC	19A4P249	PLUG, GUN CONT ASSEMBLY
16XK6	SOCKET, RAD ALT LOW RLY	19A4P270	PLUG, GUN CONT ASSEMBLY
16XK7	SOCKET, RAD ALT HIGH RLY	19A4P271	PLUG, GUN CONT ASSEMBLY
16XK8	SOCKET, HUD/TSU RETICLE	19A5	UNIT, LOGIC CONTROL
17A1	ASSEMBLY, UNIVAC INTERFACE	19A5P1	PLUG, LOGIC CONTROL UNIT
17A1P1	PLUG, UNIVAC INTERFACE ASSEMBLY	19A5P2	PLUG, LOGIC CONTROL UNIT
17CB1	CIRCUIT BREAKER, HISS PWR	19A6	AMPLIFIER, BUFFER
17CR1	DIODE, BLOCKING	19A12	TRANSDUCER, PRESSURE
17CR2	DIODE, BLOCKING	19A12P1	PLUG, PRESSURE TRANSDUCER
17CR3	DIODE, BLOCKING	19B1	BOOSTER MOTOR
17CR4	DIODE, BLOCKING	19B1P1	PLUG, BOOSTER MOTOR
17CR5	DIODE, BLOCKING	19CB1	CIRCUIT BREAKER, ARMT CONT
17CR6	DIODE, BLOCKING	19CB2	CIRCUIT BREAKER, WEAPON CONT
17CR7	DIODE, BLOCKING	19CB3	CIRCUIT BREAKER, WEAPON FIRE
17CR8	DIODE, BLOCKING		
17DS1	LIGHT, GNR HSS BIT INDICATOR		
17P1	PLUG, GNR HELMET DISCONNECT		
17P2	PLUG, PLTHELMET DISCONNECT		

Table F-6. **M** Equipment list (armament) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
19CB4	CIRCUIT BREAKER, TURRET PWR	19M1	INDICATOR, ROUNDS REMAINING
19CB6	CIRCUIT BREAKER, TURRET STOW	19P243A	PLUG, TURRET DISCONNECT
19CB7	CIRCUIT BREAKER, TURRET DRIVE MOTOR	19P243B	PLUG, TURRET DISCONNECT
19CB8	CIRCUIT BREAKER, TURRET GEN MOTOR	19P247	PLUG, TURRET
19CB126	CIRCUIT BREAKER, AMMO LOAD	19P248	PLUG, TURRET
19CR1	DIODE, BLOCKING	19P250	PLUG, TURRET DISCONNECT
19CR2	DIODE, BLOCKING	19R5	RESISTOR
19CR4	DIODE, BLOCKING	19R6	RESISTOR
19CR7	DIODE, BLOCKING	19R13	RESISTOR
19CR8	DIODE, BLOCKING	19R14	RESISTOR
19CR9	DIODE, BLOCKING	19R15	RESISTOR
19CR10	DIODE, BLOCKING	19S1	SWITCH, TRIGGER
19CR13	DIODE, BLOCKING	19S2	SWITCH, ACTION
19CR15	DIODE, TURRET GUN PWR RLY	19S3	SWITCH, SLEW RATE
19CR16	DIODE, MASTER ARM RLY	19S4	SWITCH, RECOIL COMP
19CR17	DIODE, WPN CONT SW	19S5	SWITCH, RANGE
19CR18	DIODE, WPN CONT SW	19S6	SWITCH, TSU/GUN SLEW RATE
19CR19	DIODE, AMMO LOAD RLY	19S7	SWITCH, PLT OVRD
19CR20	DIODE, TURRET PWR RLY	19S8	SWITCH, RANGE
19CR21	DIODE, BLOCKING	19S9	SWITCH, PLT ACTION
19CR22	DIODE, BLOCKING	19S10	SWITCH, PLT TRIGGER
19CR24	DIODE, BLOCKING	19S12	SWITCH, MASTER ARM
19CR25	DIODE, BLOCKING	19S13	SWITCH, WEAPON CONTROL
19CR26	DIODE, BLOCKING	19S16	SWITCH, TURRET DEPR LIM/LASER SAFE
19CR27	DIODE, BLOCKING	19S17	SWITCH, AMMO LOAD
19CR28	DIODE, BLOCKING	19S18	SWITCH, TUR PWR OVLD SENSOR
19CR29	DIODE, BLOCKING	19S19	SWITCH, TUR GUN OVLD SENSOR
19CR30	DIODE, BLOCKING	19S20	SWITCH, TUR BOOSTER OVLD SENSOR
19CR31	DIODE, BLOCKING	19TB3	TERMINAL BOARD, ARMAMENT
19CR32	DIODE, BLOCKING	19TB4	TERMINAL BOARD, TURRET
19DS2	LIGHT, ARMED/STBY IND	19TB5	TERMINAL BOARD, TURRET
19DS3	LIGHT, PLT IN CONT IND	19TB6	TERMINAL BOARD, TURRET
19DS5	LIGHT, ARMED/STBY IND	19TB7	TERMINAL BOARD, ARMT INTERFACE
19J1	RECEPTACLE, TEST SIGNAL	20A1	UNIT, TELESCOPIC SIGHT
19J2	RECEPTACLE, TEST POWER	20A1P01	PLUG, TELESCOPIC SIGHT UNIT
19K5	RELAY, TURRET GUN PWR	20A1P02	PLUG, TELESCOPIC SIGHT UNIT
19K6	RELAY, AMMO LOAD	20A1P03	PLUG, TELESCOPIC SIGHT UNIT
19K7	RELAY, TURRET PWR	20A1P04	PLUG, TELESCOPIC SIGHT UNIT
19K31	RELAY, MASTER ARM		
19K82	RELAY, PILOT TRIGGER DISABLE		
19K82P1	PLUG, PLT TRIGGER DISABLE RELAY		

Table F-6. **M** Equipment list (armament) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
20A1P05	PLUG, TELESCOPIC SIGHT UNIT	20A5P03	PLUG, MISSILE COMMAND AMPLIFIER
20A1P06	PLUG, TELESCOPIC SIGHT UNIT	20A5P04	PLUG, MISSILE COMMAND AMPLIFIER
20A1P07	PLUG, TELESCOPIC SIGHT UNIT MCN	20A6	HAND CONTROL, SIGHT
20A1P08	PLUG, TELESCOPIC SIGHT UNIT MCN	20A6P01	PLUG, SIGHT HAND CONTROL
20A1P09	PLUG, TELESCOPIC SIGHT UNIT MCN	20A7	SUPPLY, ELECTRONIC POWER
20A1P11	PLUG, TELESCOPIC SIGHT UNIT	20A7P01	PLUG, ELECTRONIC POWER SUPPLY
20A1P53	PLUG, LRF/BHD DISCONNECT	20A7P02	PLUG, ELECTRONIC POWER SUPPLY
20A1P64	PLUG, LRF/TSU	20A7P03	PLUG, ELECTRONIC POWER SUPPLY
20A1P66	PLUG, LRF/TSU	20A9	POWER SUPPLY, FLIR MCN
20A1P92	PLUG, TELESCOPIC SIGHT UNIT MCN	20A9P01	PLUG, FLIR POWER SUPPLY MCN
20A2	AMPLIFIER, STABILIZATION CONTROL	20A9P02	PLUG, FLIR POWER SUPPLY MCN
20A2P01	PLUG, STABILIZATION CONTROL AMPLIFIER	20A9P03	PLUG, FLIR POWER SUPPLY MCN
20A2P02	PLUG, STABILIZATION CONTROL AMPLIFIER	20A11	ACCELEROMETER (LH)
20A2P03	PLUG, STABILIZATION CONTROL AMPLIFIER	20A11P1	PLUG, ACCELEROMETER (LH)
20A2P04	PLUG, STABILIZATION CONTROL AMPLIFIER	20A12	ACCELEROMETER (RH)
20A2P05	PLUG, STABILIZATION CONTROL AMPLIFIER	20A12P1	PLUG, ACCELEROMETER (RH)
20A3	TRACKER, FLIR MISSILE MCN	20A14J01BP	RECEPTACLE MCN
20A3P01	PLUG, FLIR MISSILE TRACKER MCN	20A14P01	PLUG, FLIR CONTROL PANEL MCN
20A3P02	PLUG, FLIR MISSILE TRACKER MCN	20A16	PANEL, GNR ACCURACY CONTROL
20A3P03	PLUG, FLIR MISSILE TRACKER MCN	20A16P01	PLUG, GNR ACCURACY CONTROL PANEL
20A3P04	PLUG, FLIR MISSILE TRACKER MCN	20A20	UNIT, SERVO ELECTRONIC CONTROL
20A4	PANEL, TOW CONTROL	20A20P1	PLUG, SERVO ELECTRONIC CONTROL UNIT
20A4P01	PLUG, TOW CONTROL PANEL	20A20P2	PLUG, SERVO ELECTRONIC CONTROL UNIT
20A4P02	PLUG, TOW CONTROL PANEL	20B1	RESOLVER
20A5	AMPLIFIER, MISSILE COMMAND	20B1P1	PLUG, RESOLVER
20A5P01	PLUG, MISSILE COMMAND AMPLIFIER	20B2	RESOLVER
20A5P02	PLUG, MISSILE COMMAND AMPLIFIER	20B2P1	PLUG, RESOLVER
		20CB1	CIRCUIT BREAKER, TOW PWR
		20CB2	CIRCUIT BREAKER, TSGMS PWR

Table F-6. **M** Equipment list (armament) (Cont)

Item No.	Nomenclature	Item No.	Nomenclature
20CB3	CIRCUIT BREAKER, SECU PWR		
20CB4	CIRCUIT BREAKER, REF XFMR		
20CB5	CIRCUIT BREAKER, TMS PWR		
20CB6	CIRCUIT BREAKER, FPS PWR MCN		
20CR1	DIODE, BLOCKING		
20CR2	DIODE, BLOCKING		
20CR3	DIODE, BLOCKING		
20CR4	DIODE, BLOCKING		
20CR5	DIODE, BLOCKING		
20CR6	DIODE, BLOCKING		
20CR7	DIODE, BLOCKING		
20CR8	DIODE, BLOCKING		
20CR9	DIODE, BLOCKING		
20CR10	DIODE, BLOCKING		
20CR11	DIODE, BLOCKING		
20CR12	DIODE, BLOCKING		
20CR13	DIODE, BLOCKING		
20CR14	DIODE, BLOCKING		
20CR15	DIODE, BLOCKING		
20CR18	DIODE, BLOCKING		
20CR19	DIODE, BLOCKING		
20J331	RECEPTACLE, TEST		
20J332	RECEPTACLE, TEST 2		
20L1	VALVE, TOW HYDRAULIC SOLENOID		
20L1P1	PLUG, TOW HYDRAULIC SOLENOID VALVE		
20L2	ACTUATOR, LAUNCHER		
20L2P1	PLUG, LAUNCHER ACTUATOR		
20L3	ACTUATOR, LAUNCHER		

Table F-6. **M** Equipment list (armament) (Cont)

Item No.	Nomenclature
20L3P1	PLUG, LAUNCHER ACTUATOR
20P1	PLUG, LH GUIDED MSL LAUNCHER DISC
20P2	PLUG, RH GUIDED MSL LAUNCHER DISC
20P8	LAUNCHER, GUIDED MISSILE
20P8P01	PLUG, GUIDED MISSILE LAUNCHER
20P327	PLUG, TOW TAILBOOM DISC
20S1	SWITCH, PHS/ALT ACQ
20S2	SWITCH, LAUNCHER TEST
20S3	SWITCH, PLT CLTV STICK
20S8	LAUNCHER, GUIDED MISSILE
20S8P01	PLUG, GUIDED MISSILE LAUNCHER
20TB3	TERMINAL BOARD, TOW
21A1	UNIT, DISPLAY
(21A12P1)	PLUG, DISPIAY UNIT/FILTER ASSY
21A2	UNIT, RH OUTBOARD STATION
21A2P1	PLUG, RH OUTBOARD STATION UNIT
21A2P2	PLUG, RH OUTBOARD STATION UNIT
21A3	UNIT, RH INBOARD STATION
21A3P1	PLUG, RH INBOARD STATION UNIT
21A3P2	PLUG, RH INBOARD STATION UNIT
21A4	UNIT, LH OUTBOARD STATION
21A4P1	PLUG, LH OUTBOARD STATION UNIT
21A4P2	PLUG, LH OUTBOARD ST & UNIT
21A5	UNIT, LH INBOARD STATION
21A5P1	PLUG, LH INBOARD STATION UNIT
21A5P2	PLUG, LH INBOARD STATION UNIT
21A6	POD, RH OUTBOARD ROCKET
21A6P1	PLUG, RH OUTBOARD ROCKET FUSES
21A6P2	PLUG, RH OUTBOARD ROCKET SQUIBS
21A7	POD, RH INBOARD ROCKET
21A7P1	PLUG, RH INBOARD ROCKET FUSES
21A7P2	PLUG, RH INBOARD ROCKET SQUIBS
21A8	POD, LH OUTBOARD ROCKET

Item No.	Nomenclature
21A8P1	PLUG, LH OUTBOARD ROCKET FUSES
21A8P2	PLUG, LH OUTBOARD ROCKET SQUIBS
21A9	POD, LH INBOARD ROCKET
21A9P1	PLUG, LH INBOARD ROCKET FUSES
21A9P2	PLUG, LH INBOARD ROCKET SQUIBS
21A10	POD, RH XM-18 GUN
21A10P1	PLUG, RH XM-18 GUN POD
21A11	POD, LH XM-18 GUN
21A11P1	PLUG, LH XM-18 GUN POD
21A12	EMI/RFI FILTER ASSY
21CB2	CIRCUIT BREAKER, PLT JTSN
21CB3	CIRCUIT BREAKER, LH GUN
21CB4	CIRCUIT BREAKER, RH GUN
21CB5	CIRCUIT BREAKER, GNR JTSN
21CB6	CIRCUIT BREAKER, WING STORE POWER
21CR3	DIODE, JETTISON
21CR4	DIODE, JETTISON
21CR9	DIODE, XM-18 POWER RELAY
21K1	RELAY, XM-18 POWER
21K2	RELAY, JETTISON CONTROL
21K3	RELAY, PLT JETTISON SWITCH
21K3P1	PLUG, PLT JETTISON SWITCH RELAY
21K4	RELAY, PLT JETTISON CONTROL
21K4P1	PLUG, PLT JETTISON CONTROL RELAY
21K5	RELAY, GNR JETTISON CONTROL
21K5P1	PLUG, GNR JETTISON CONTROL RELAY
21K7	RELAY, ACTION DISABLE
21K7P1	PLUG, ACTION DISABLE RELAY
21K10	RELAY, PLT OVERRIDE SWITCH
21P1	PLUG, LH WING-DISCONNECT
21P2	PLUG, RH WING DISCONNECT
21S1	SWITCH, JTSN
21S2	SWITCH, JTSN SEL
21S3	SWITCH, JTSN
21S4	SWITCH, INBD JTSN SEL
21S5	SWITCH, OUTBD JTSN SEL

Table F-6. **M** Equipment list (armament) (Cont)

Item No.	Nomenclature
21S6	SWITCH, WG STORE SEL
21S8	SWITCH, WG STORE SEL
21S9	SWITCH, WG ARMT FIRE
21S10	SWITCH, WG ARMT FIRE
21SQ1	JETTISON, LH OUTBOARD
21SQ1P1	PLUG, LH OUTBOARD JETTISON
21SQ2	JETTISON, LH INBOARD
21SQ2P1	PLUG, LH INBOARD JETTISON
21SQ3	JETTISON, RH OUTBOARD
21SQ3P1	PLUG, RH OUTBOARD JETTISON
21SQ4	JETTISON, RH INBOARD
21SQ4P1	PLUG, RH INBOARD JETTISON
21XK2	SOCKET, JETTISON CONTROL RELAY
21XK10	SOCKET PLT OVERRIDE SWITCH
22A1	PANEL, PLT MISC
22A1P1	PLUG, PLT MISC PANEL
22A2	PANEL, PLT ARMT CONT
22A2P1	PLUG, PLT ARMT CONT PANEL
22A3	PANEL, GNR ARMT CONT
22A3P1	PLUG, GNR ARMT CONT PANEL
22A4	UNIT, INTERFACE CONTROL
22A4P13	PLUG, INTERFACE CONTROL UNIT
22A4P14	PLUG, INTERFACE CONTROL UNIT

Item No.	Nomenclature
22A4P15	PLUG, INTERFACE CONTROL UNIT
22A5	ASSEMBLY, LOGIC RELAY
22A5A1	ASSEMBLY, PRINTED WIRING
22A5A1P1	PLUG, PRINTED WIRING ASSEMBLY
22A5A2	ASSEMBLY, PRINTED WIRING
22A5A2P1	PLUG, PRINTED WIRING ASSEMBLY
22A5A3	ASSEMBLY, PRINTED WIRING
22A5A3P1	PLUG, PRINTED WIRING ASSEMBLY
22A5K1	RELAY, LOGIC
22A5K2	RELAY, LOGIC
22A5K3	RELAY, LOGIC
22A5K4	RELAY, LOGIC
22A5K5	RELAY, LOGIC
22A5P1	PLUG, LOGIC RELAY ASSEMBLY
22A5P2	PLUG, LOGIC RELAY ASSEMBLY
22A5XK1	SOCKET
22A5XK2	SOCKET
22A5XK3	SOCKET
22A5XK4	SOCKET
22A5XK5	SOCKET
2300TB1	TERMINAL BOARD, ICS
3400TB1	TERMINAL BOARD, NAV
3408DS1	ALTIMETER, RADAR
3408DS1P2	PLUG, RADAR ALTIMETER

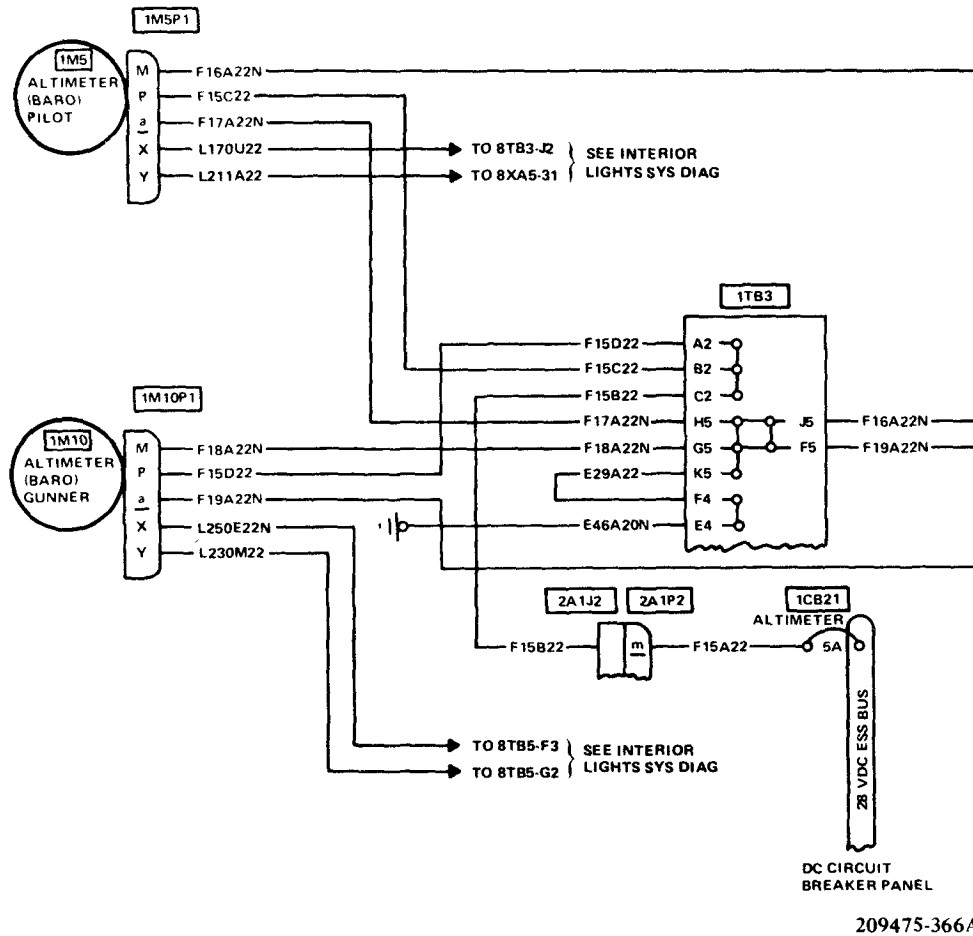
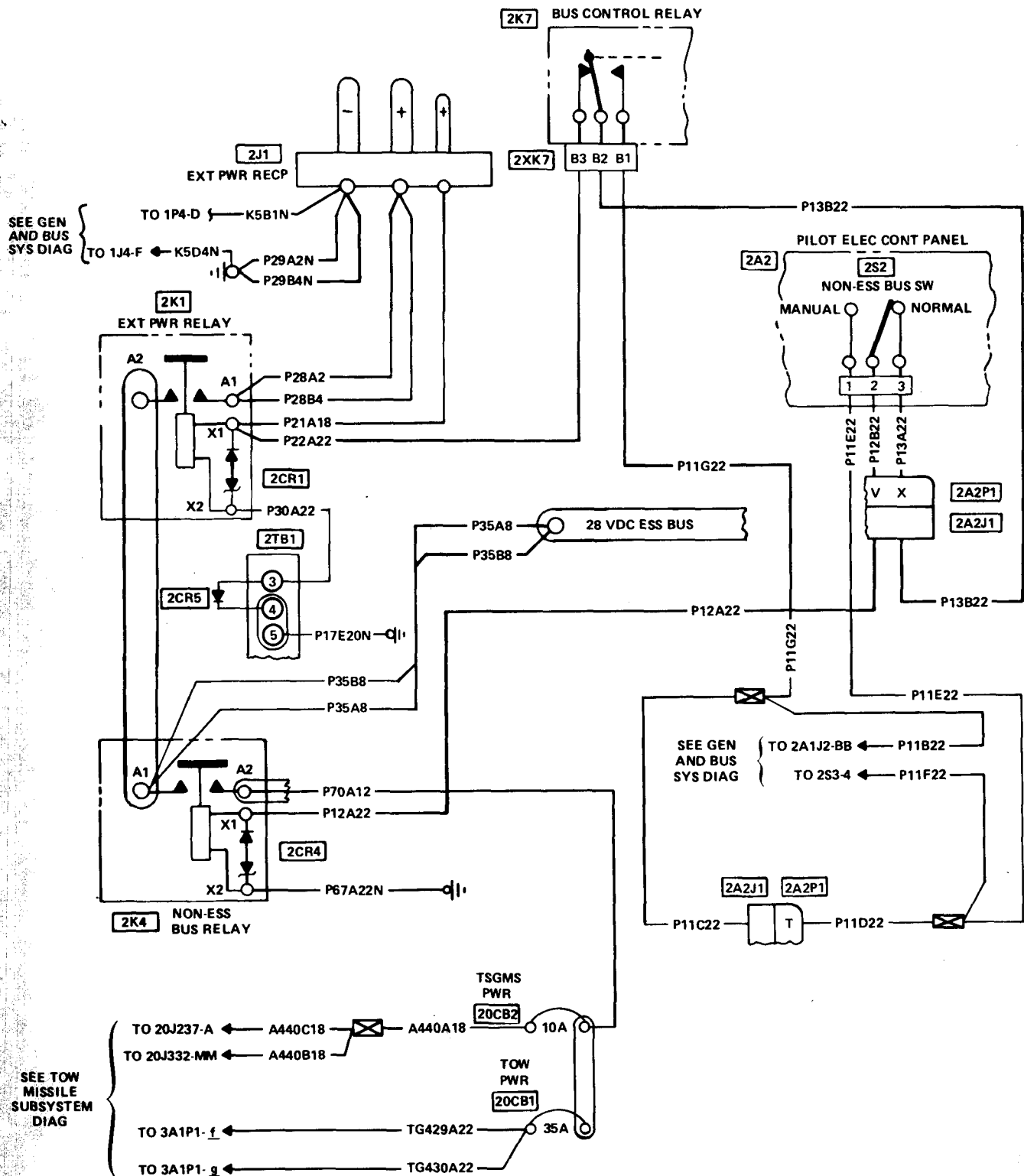
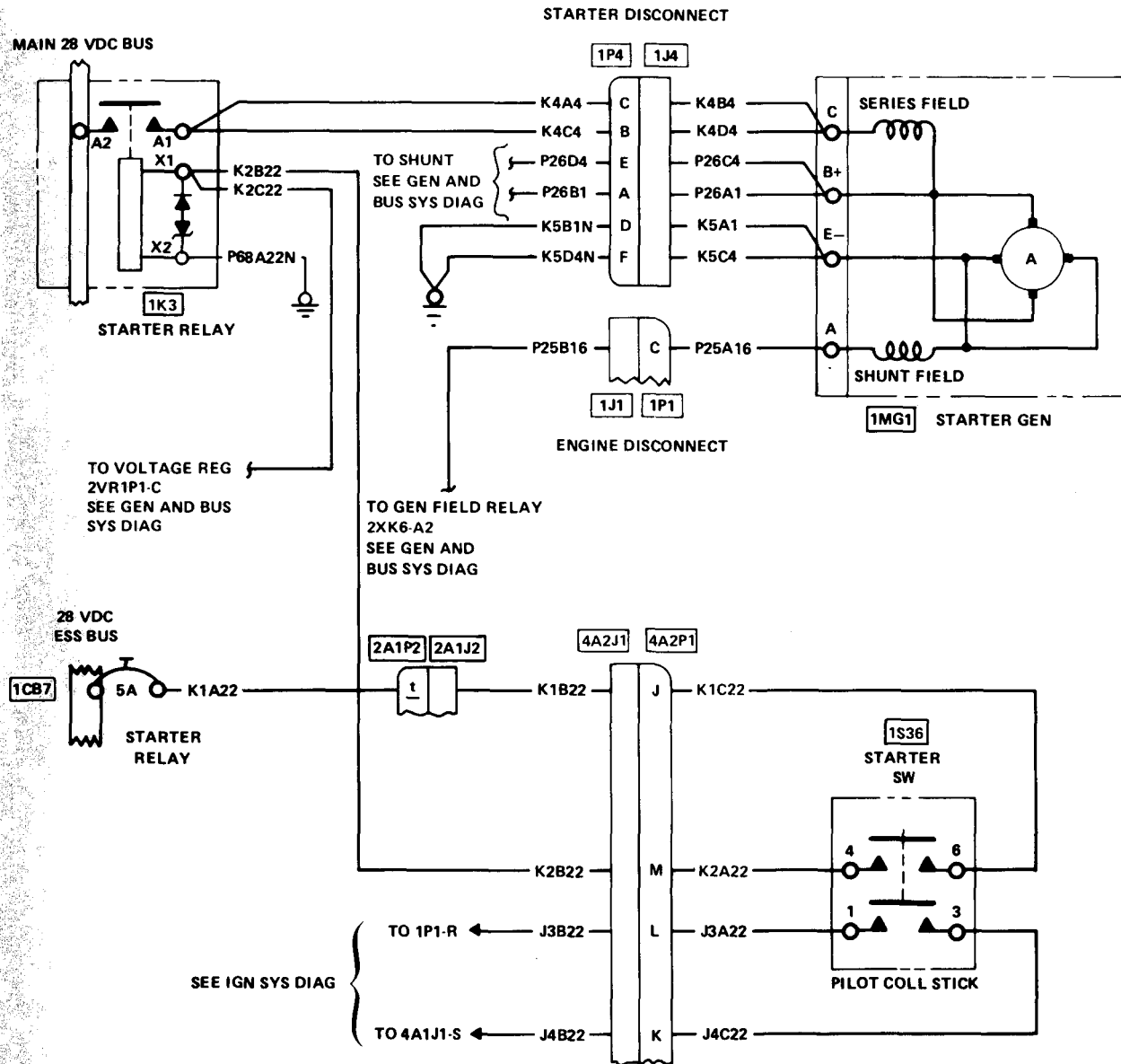


Figure F-1.2. **P** Altimeter Vibrator System Wiring Diagram



209475-351C

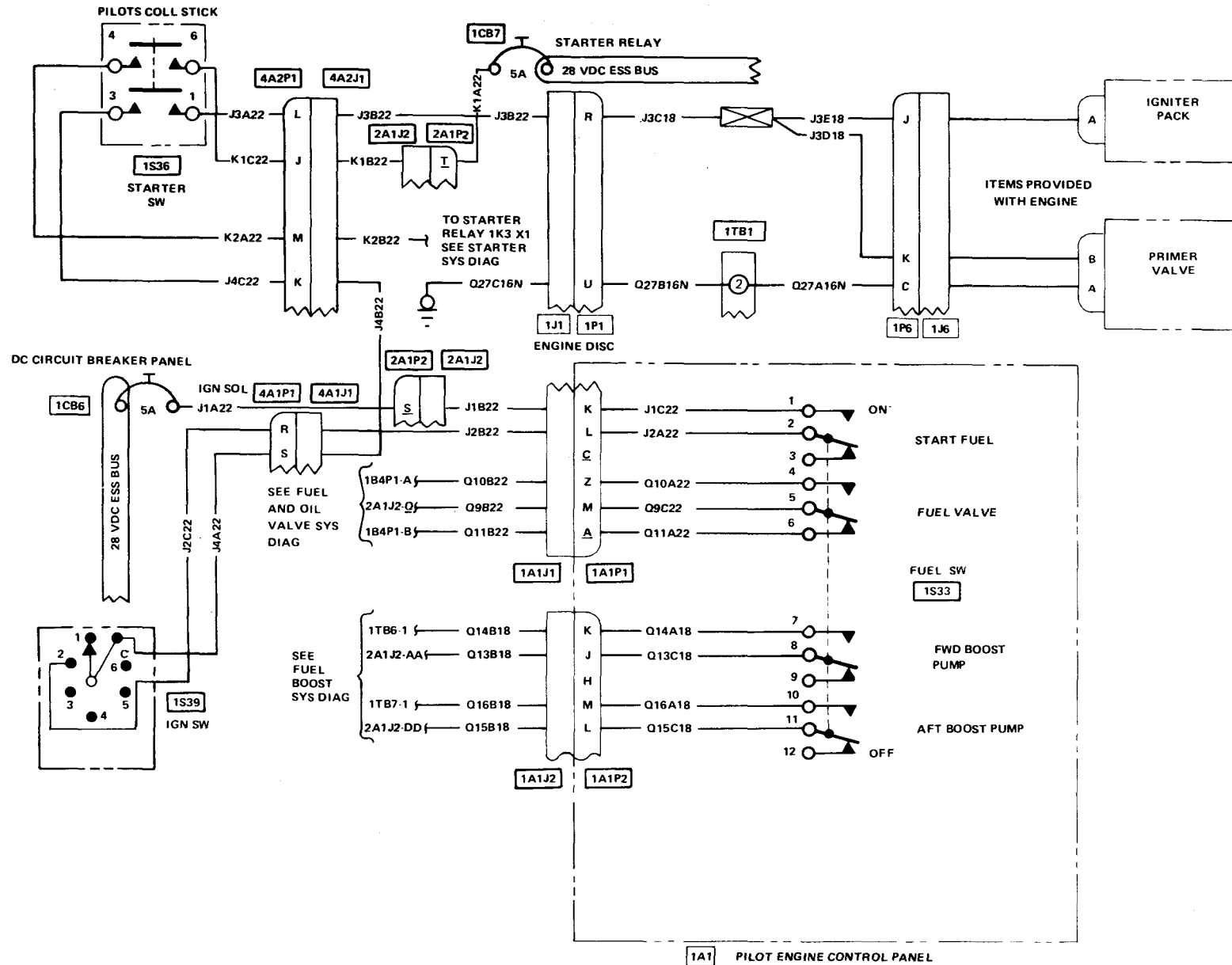
Figure F-2. **p** External Power System Wiring Diagram



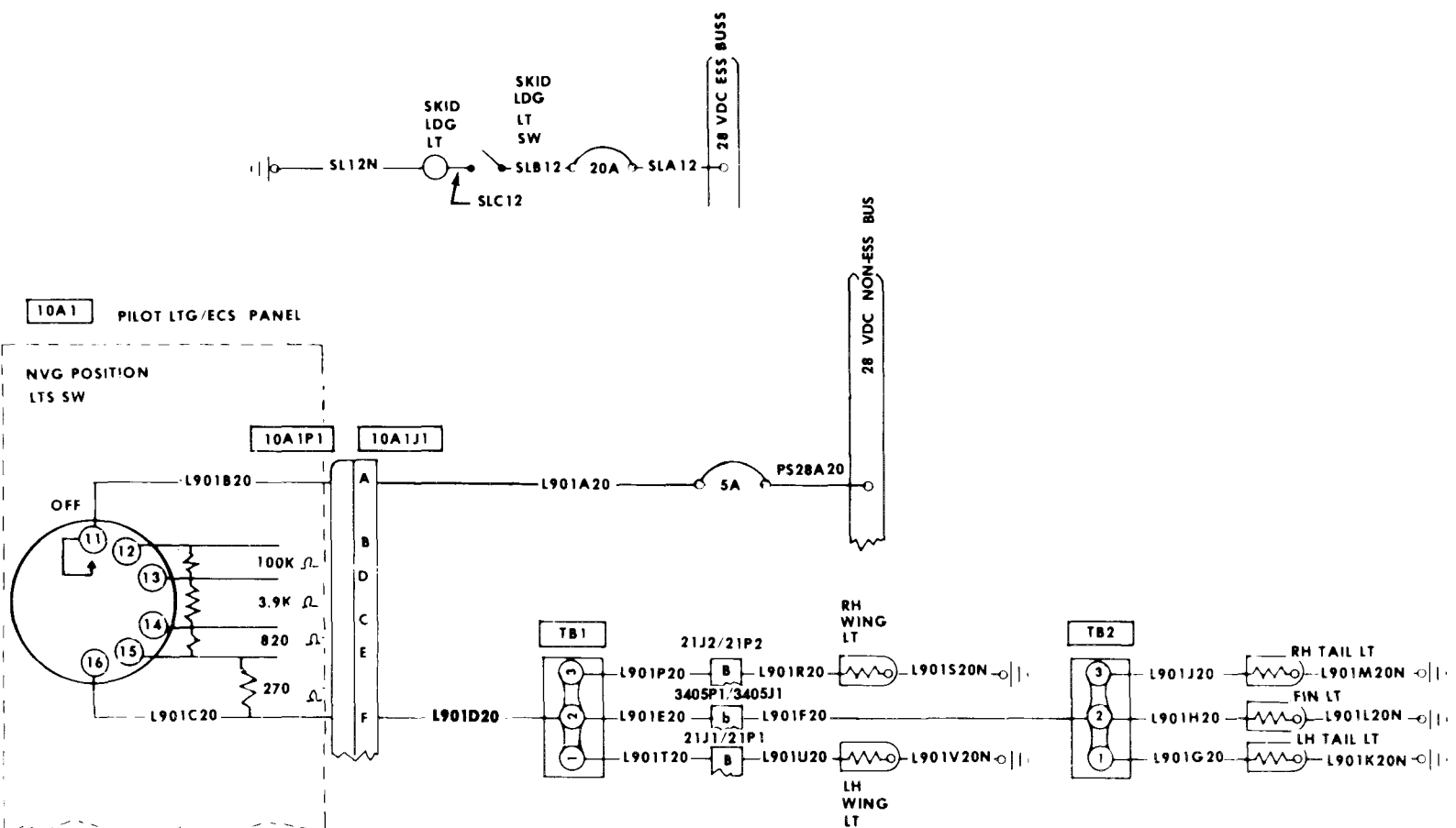
209475-352B

Figure F-3. **P** Starter System Wiring Diagram

Figure F-4. Ignition System Wiring Diagram



209475-357B



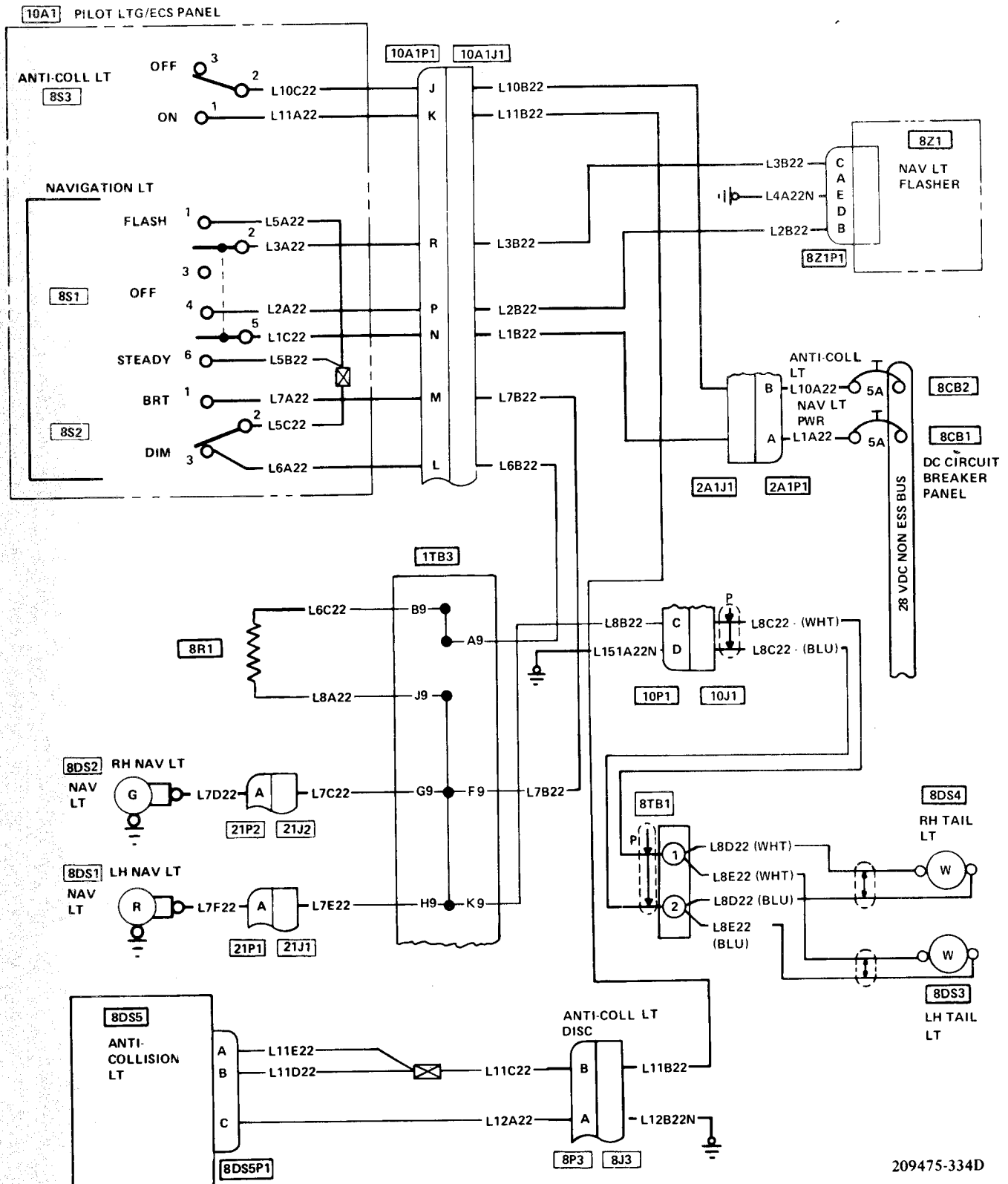
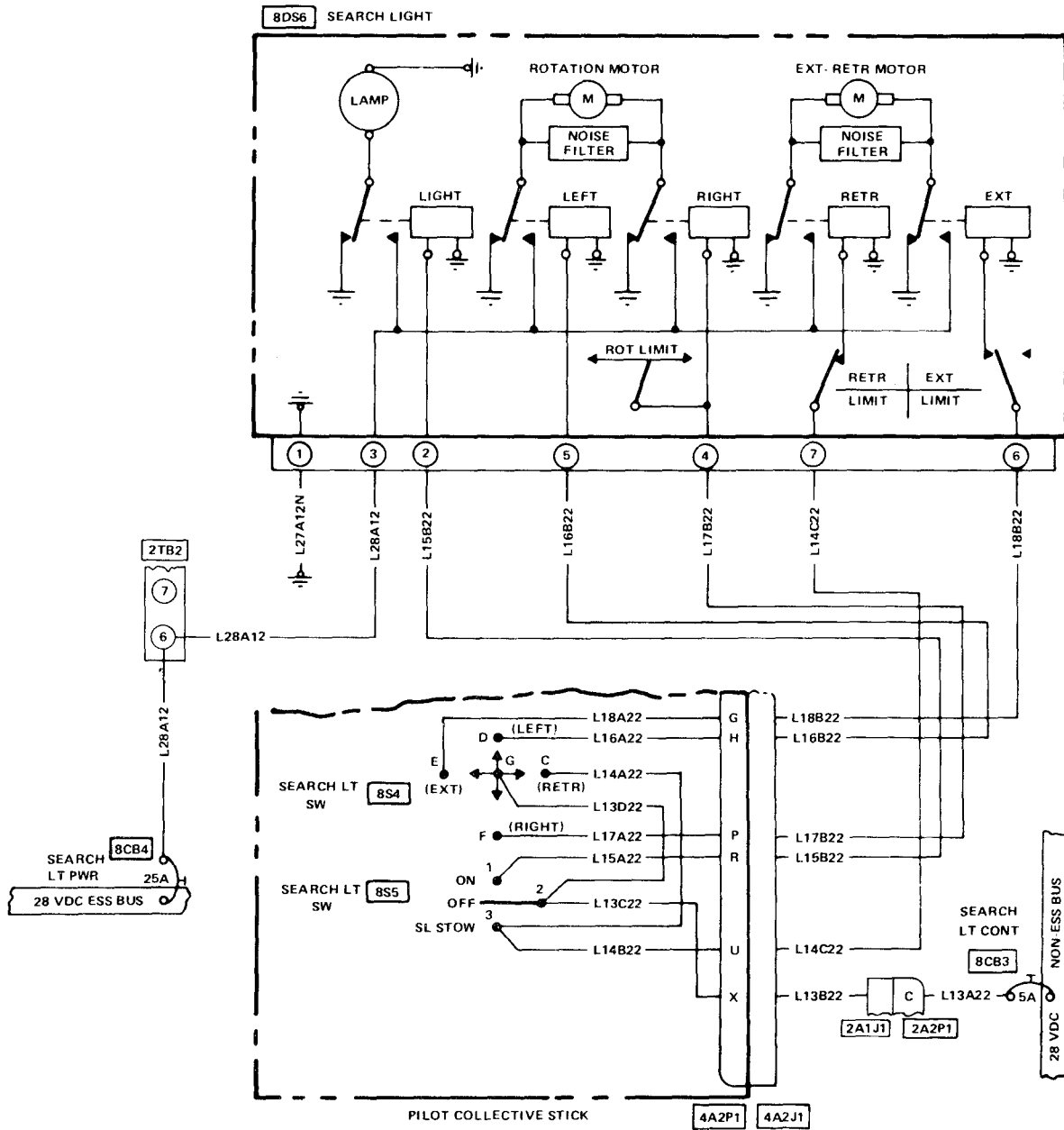


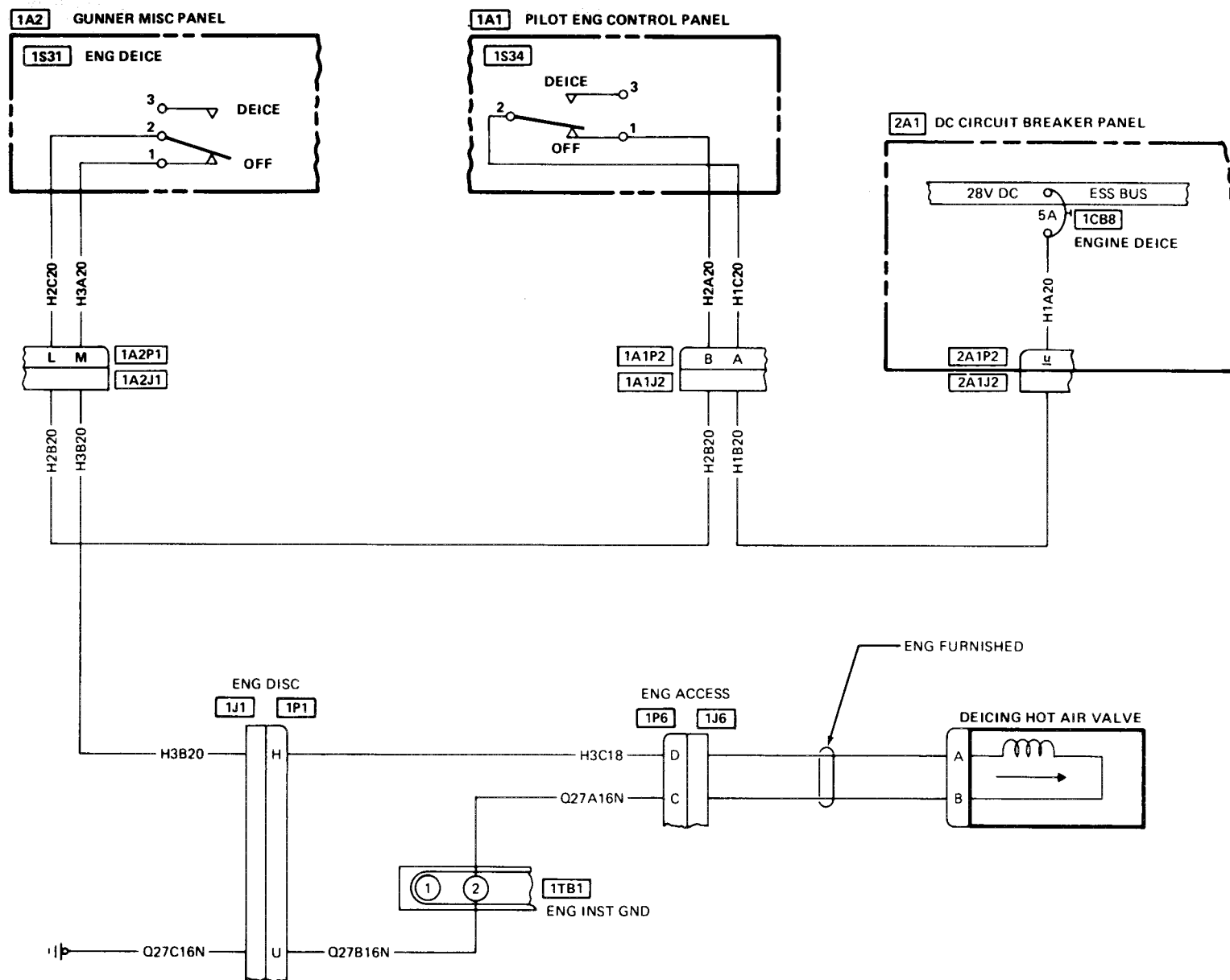
Figure F-5. **P** Anticollision and Position Lights System Wiring Diagram



209475-345D

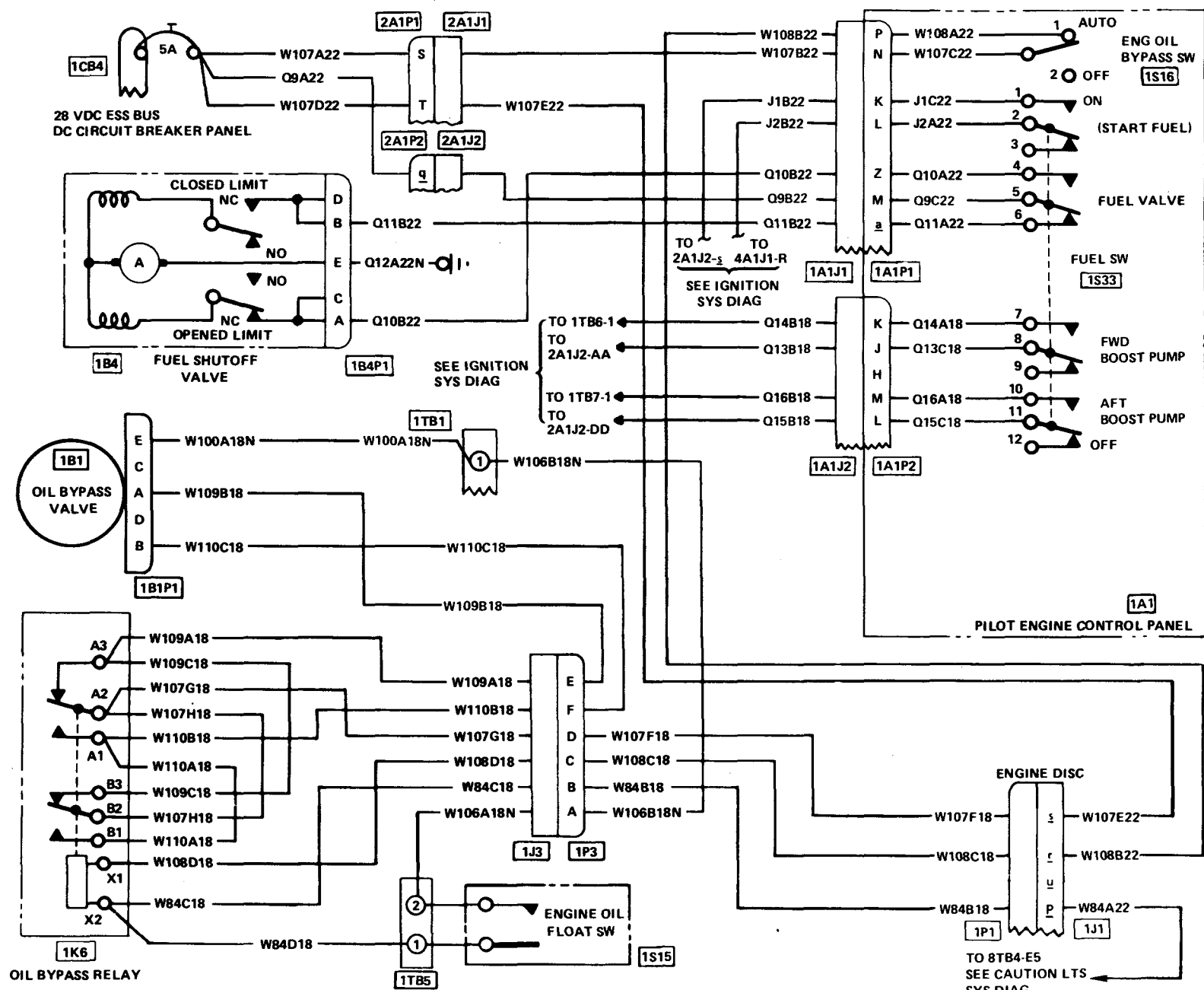
Figure F-6. **P** Searchlight System Wiring Diagram

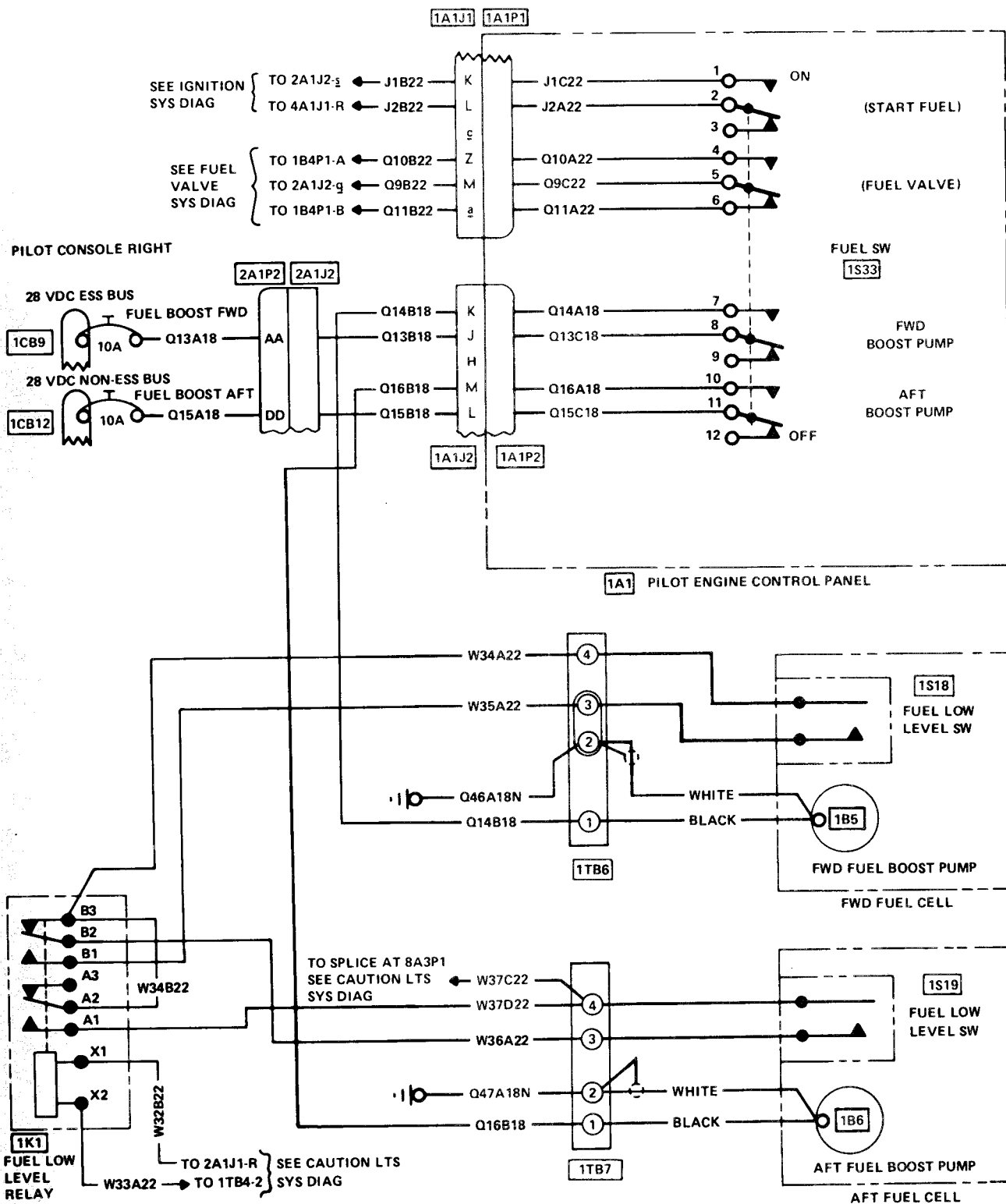
Figure F-7. **P** Engine De-ice System Wiring Diagram



209475-347B

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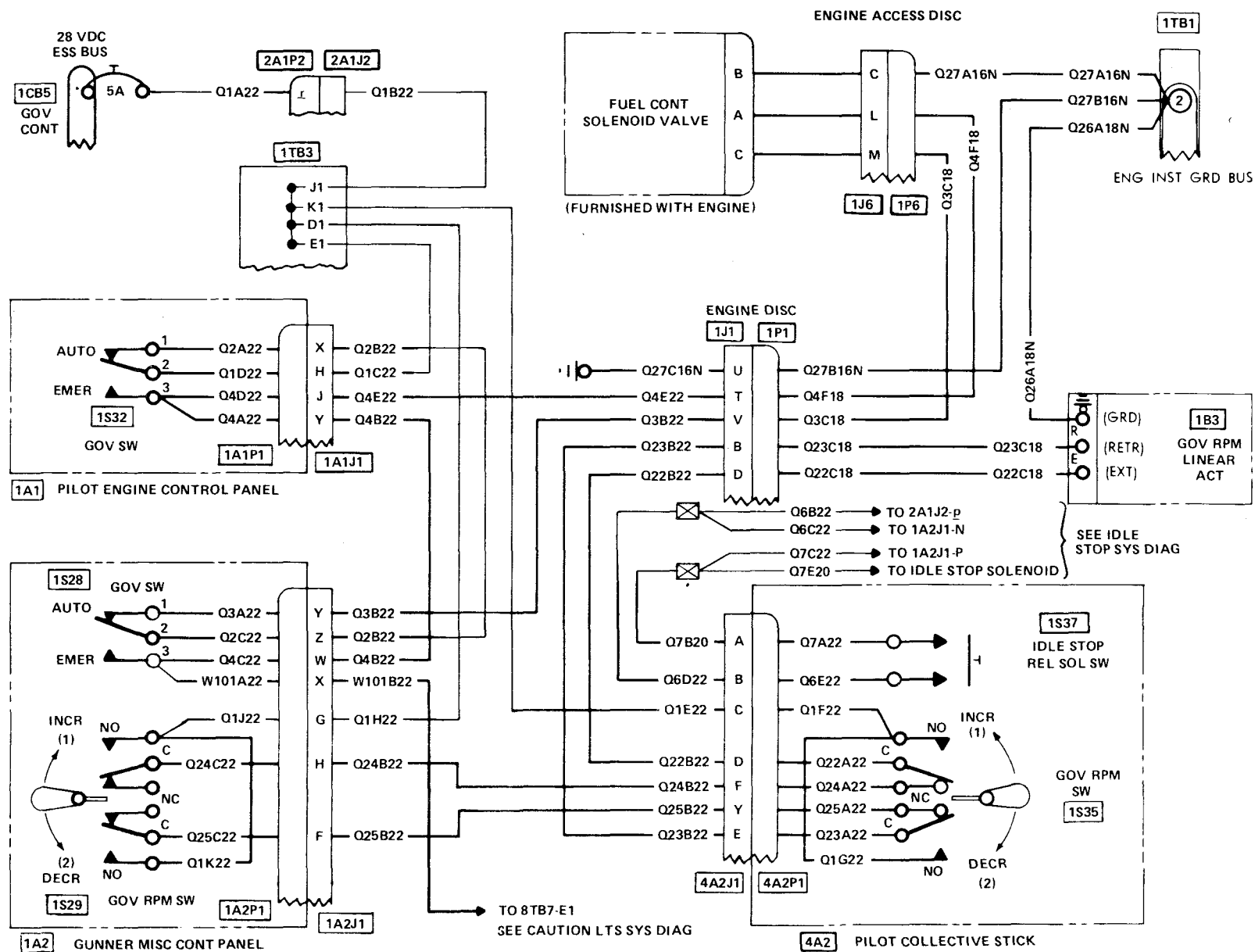




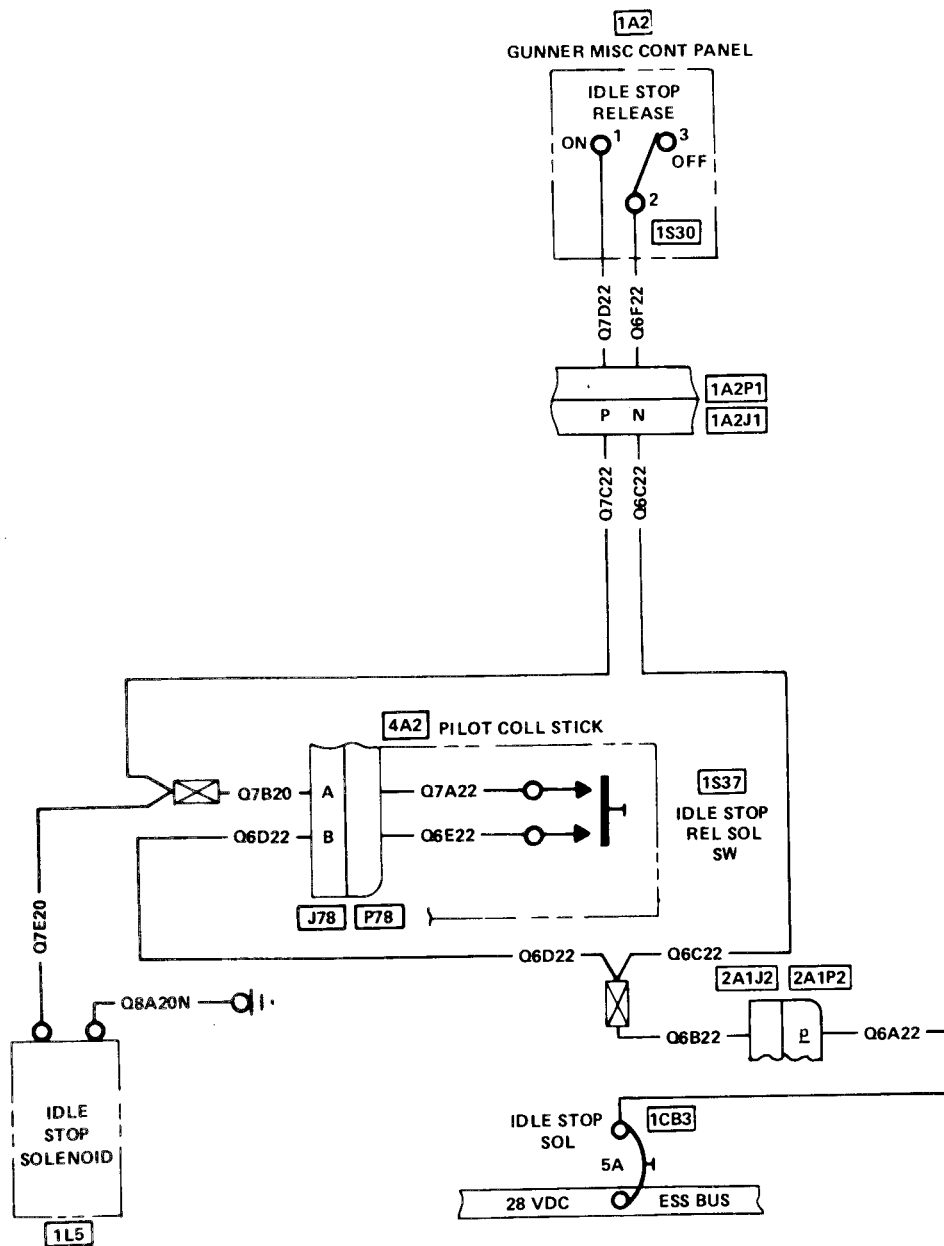
209475-359C

Figure F-9. **P** Fuel Boost System Wiring Diagram

Figure F-10. Governor Control System Wiring Diagram

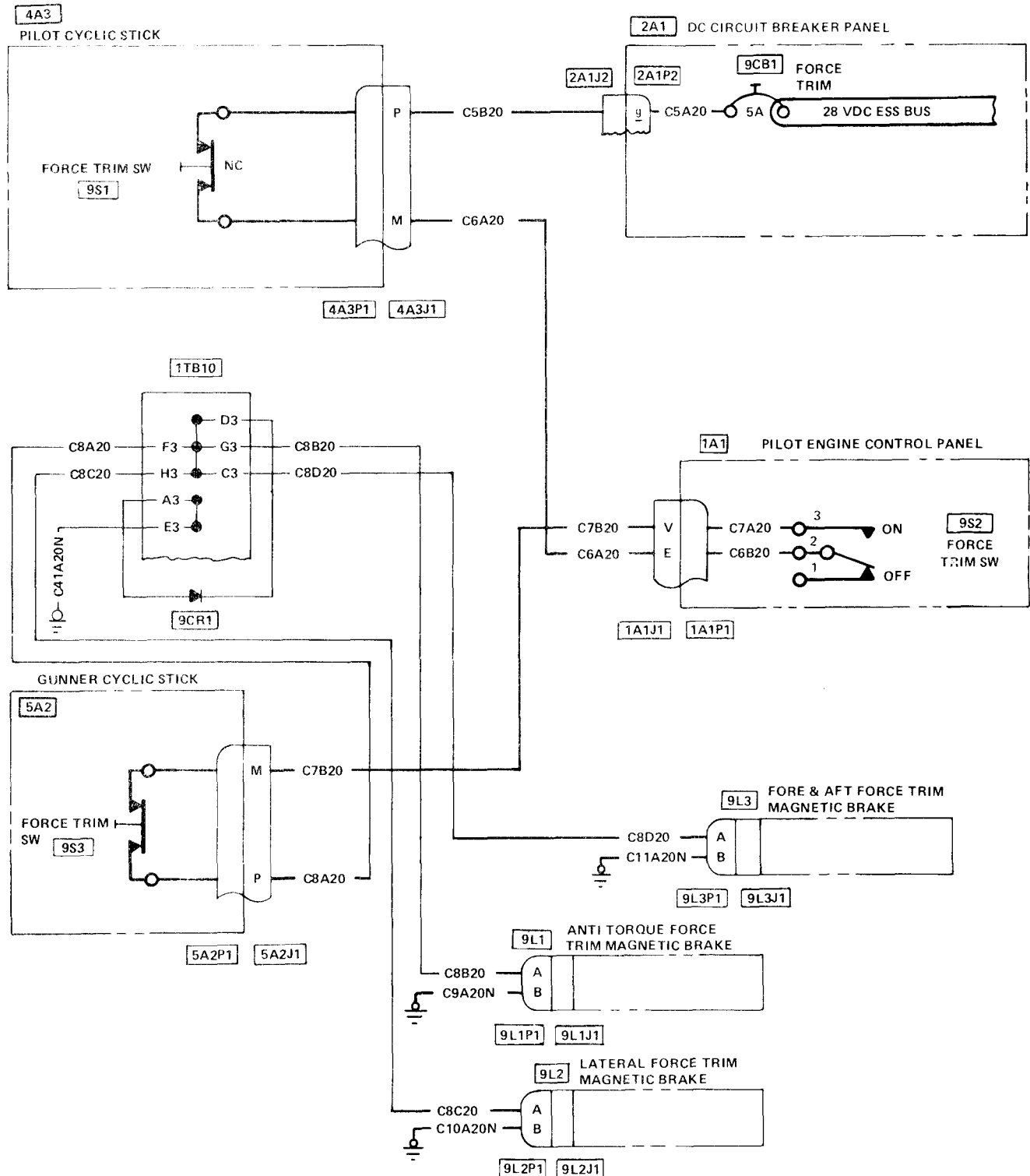


209475-338B



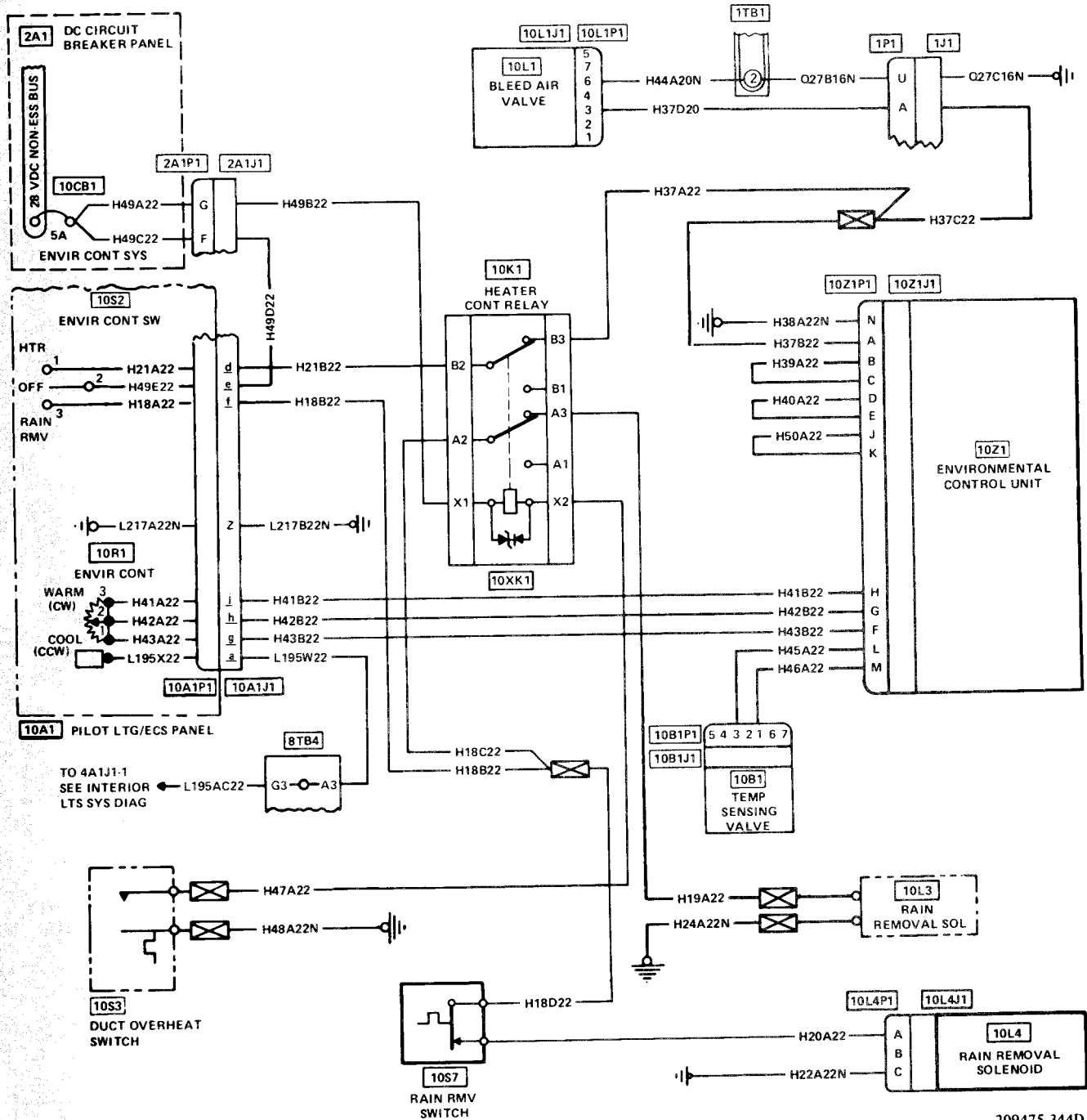
209475-354B

Figure F-11. **p** Idle Stop System Wiring Diagram



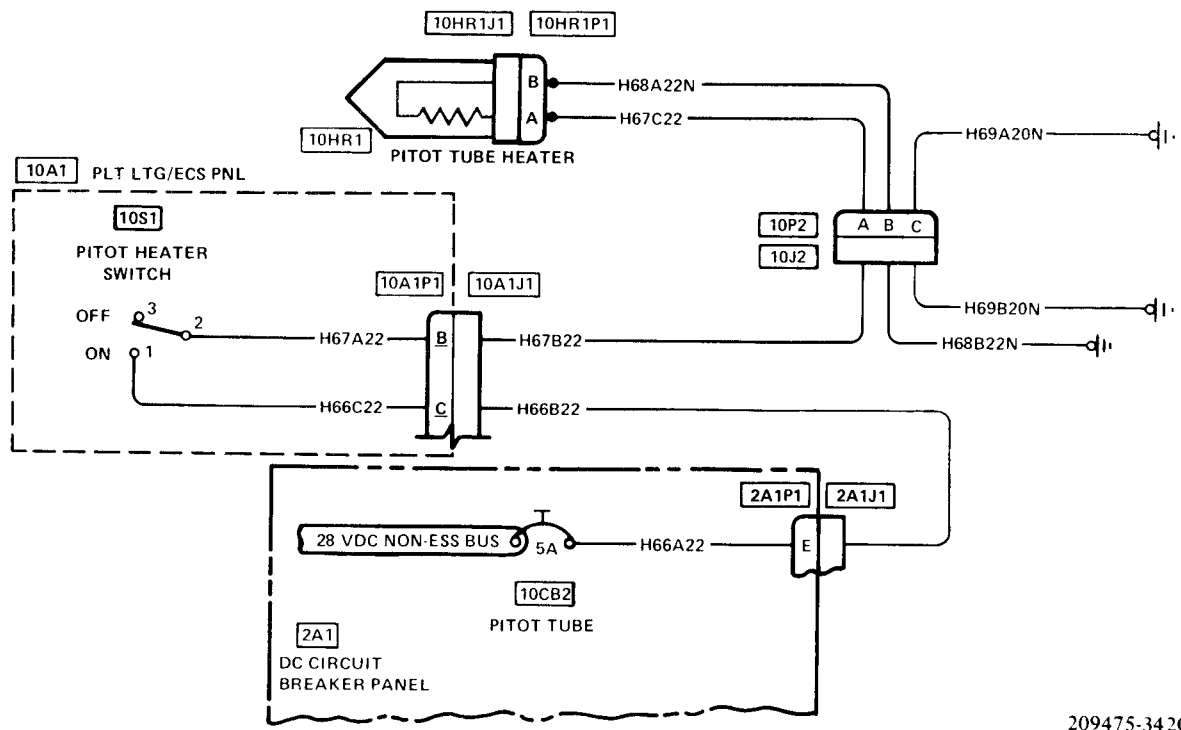
209475-348C

Figure F-12. **P** Force Trim System Wiring Diagram



209475-344D

Figure F-13. **P** Environmental Control System Wiring Diagram



209475-342C

Figure F-14^P Pitot Heater System Wiring Diagram

209475-346C

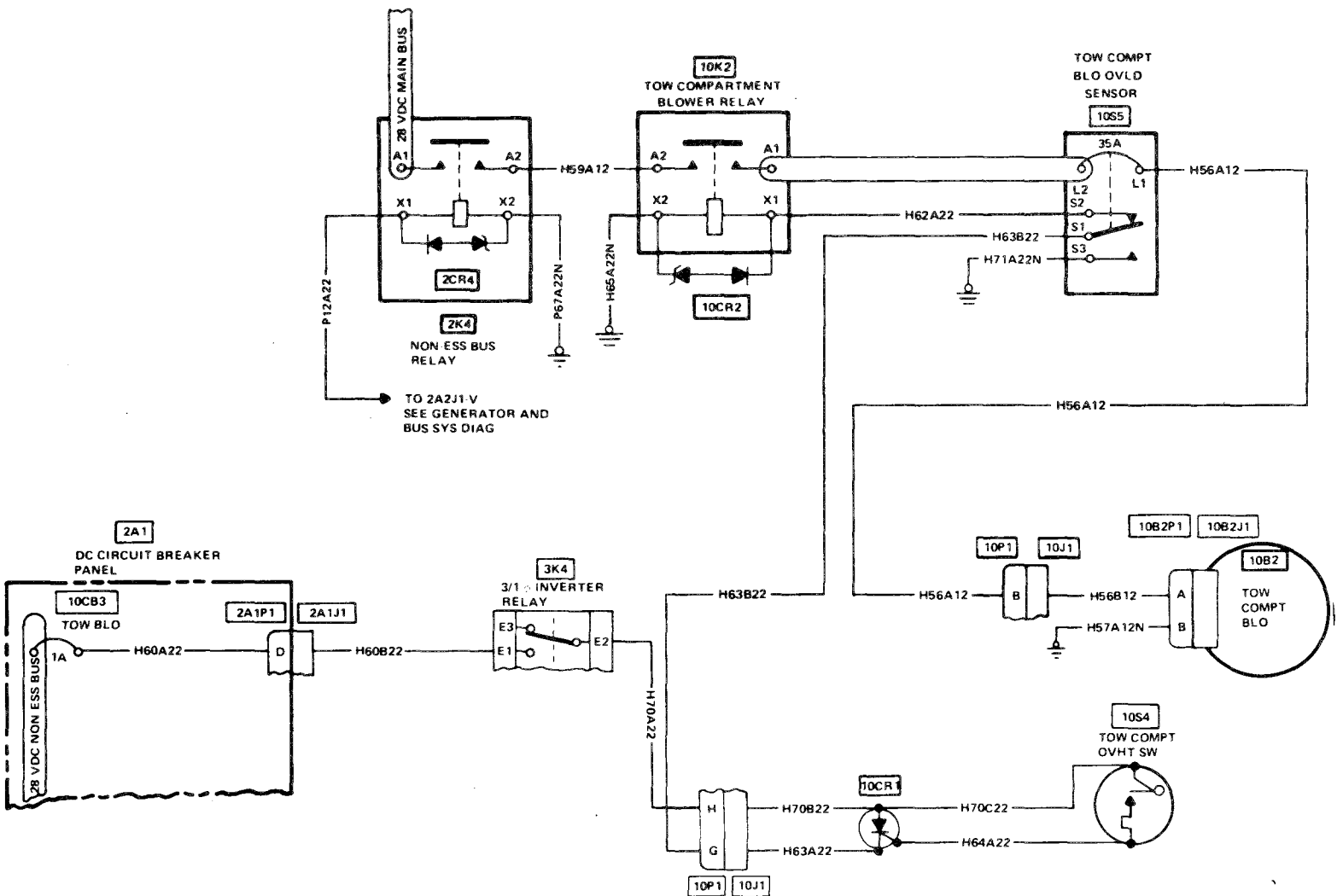


Figure F-15. PTOW Blower Cooling System Wiring Diagram

P



209475-367B

F-64

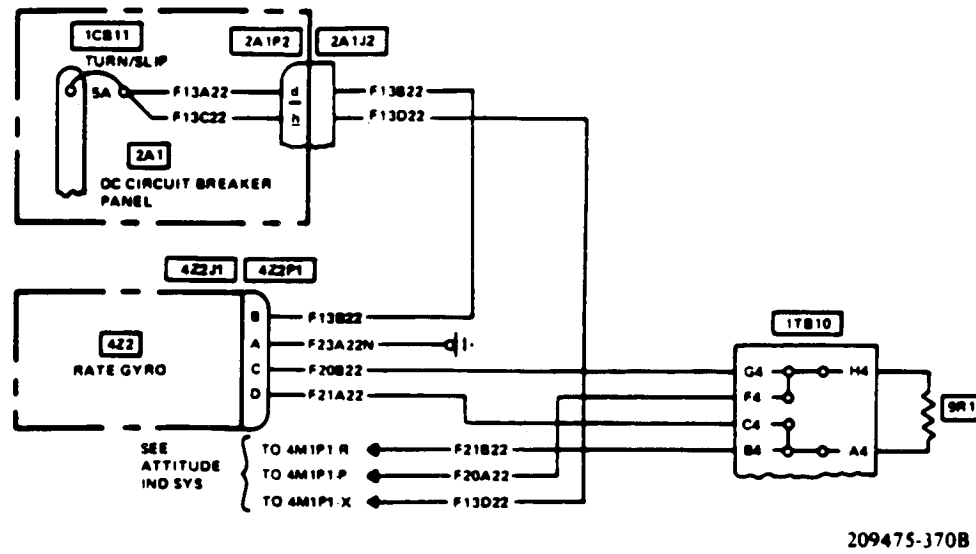


Figure F-17.1. **P** Turn and Slip Indicating System Wiring Diagram

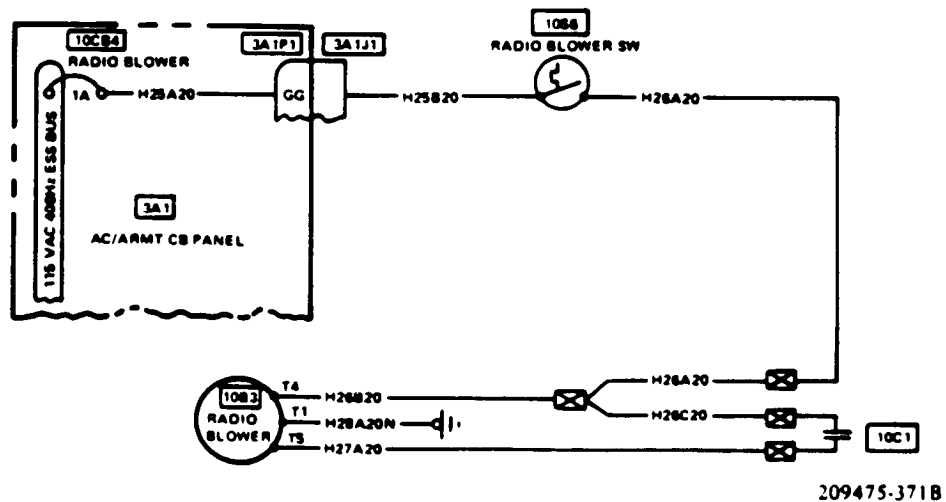
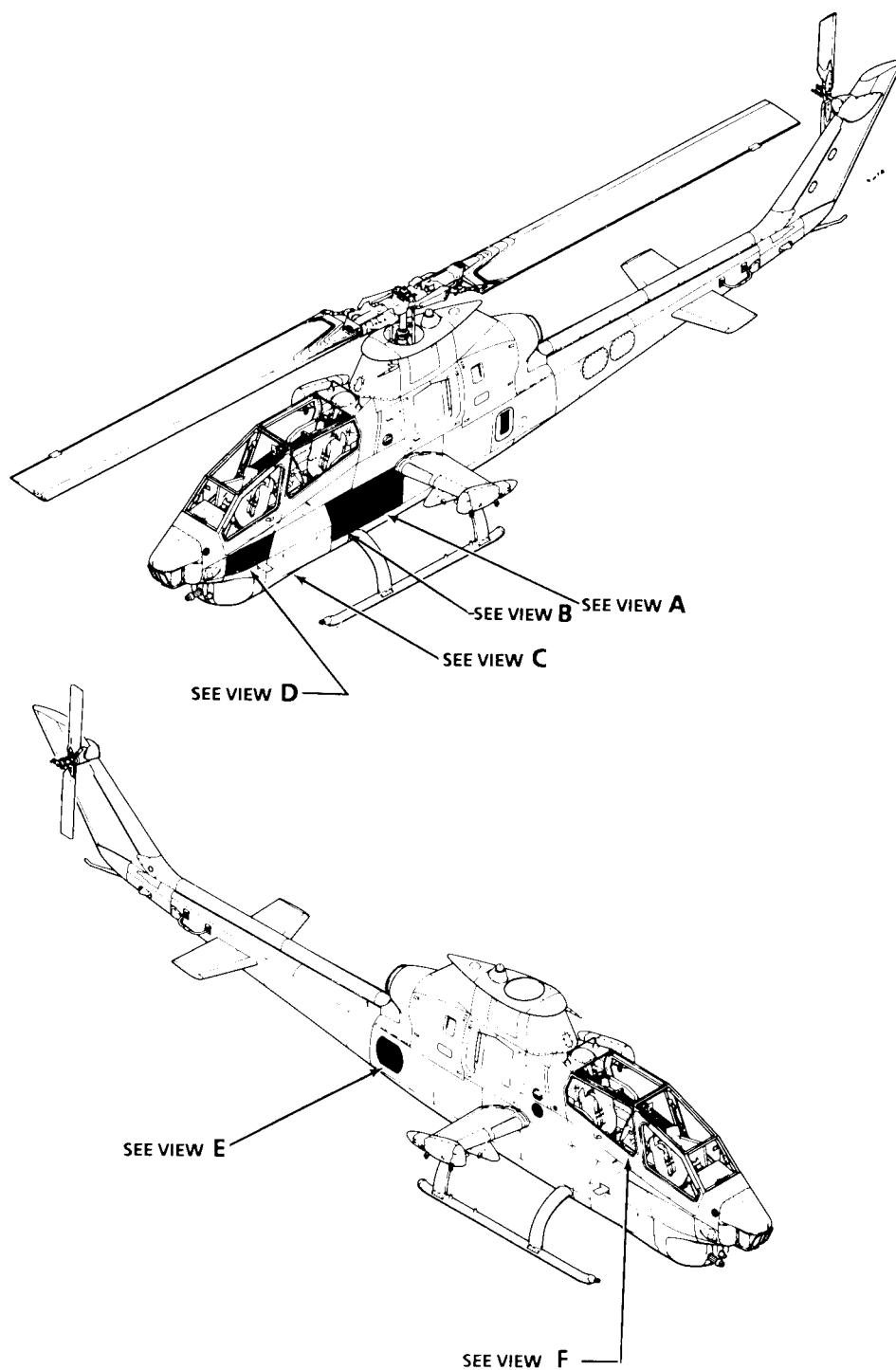
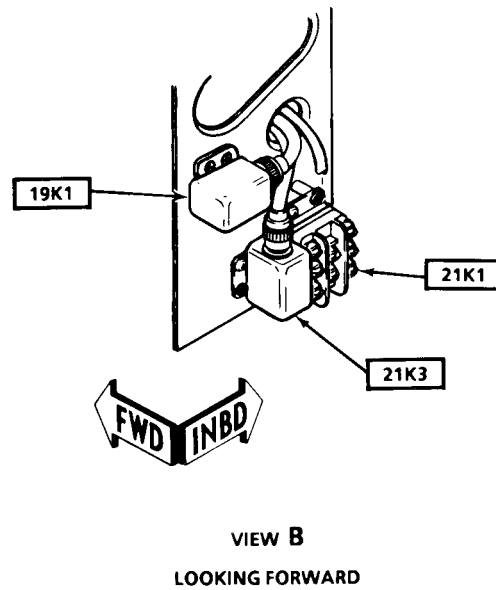
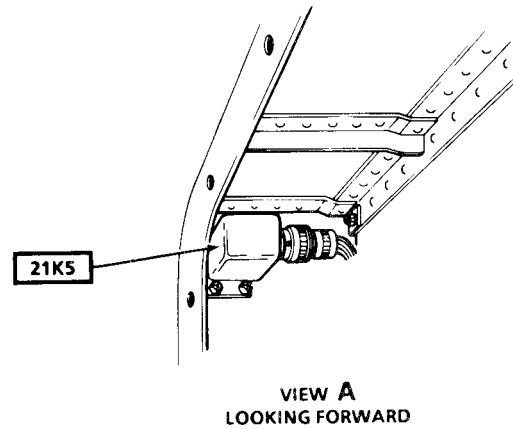


Figure F-18. **P** Radio Blower Cooling System Wiring Diagram



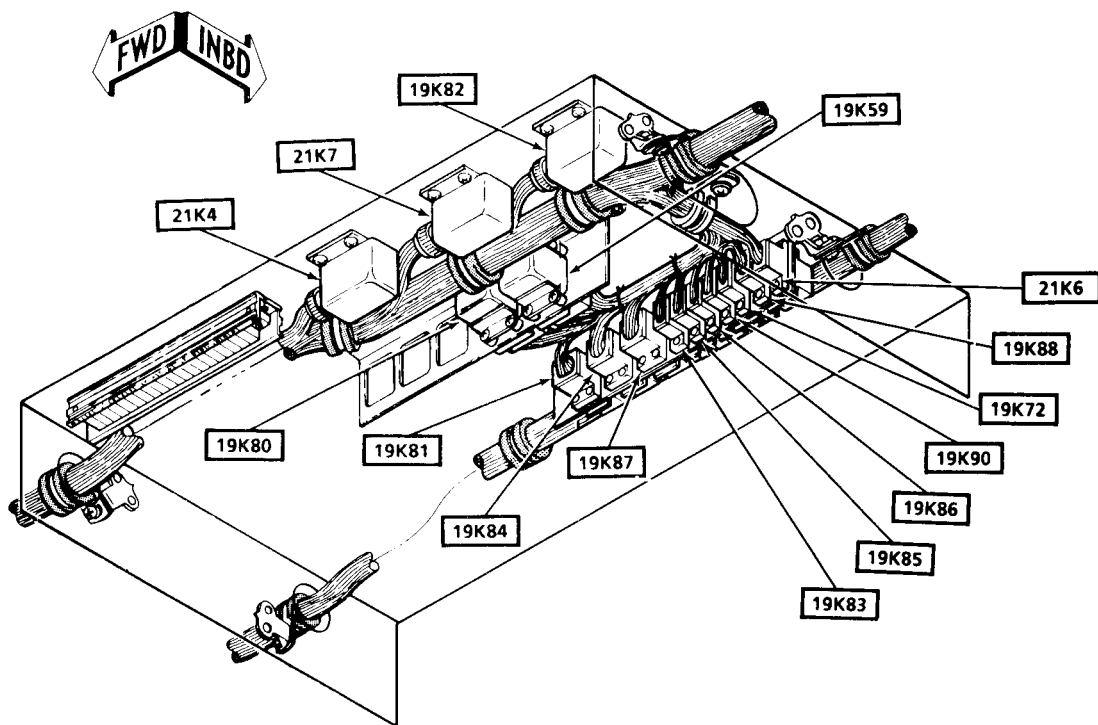
209075-643-1

Figure F-18.1^P Armament Relay Location (Sheet 1 of 4)

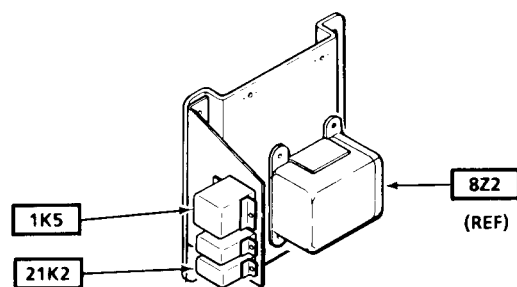


209075-643-2

Figure F-18.1 **P** Armament Relay Location (Sheet 2 of 4)



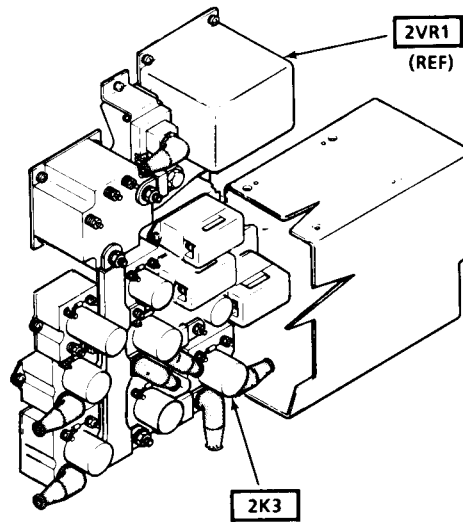
VIEW C
LOOKING UP UNDERSIDE OF HELICOPTER



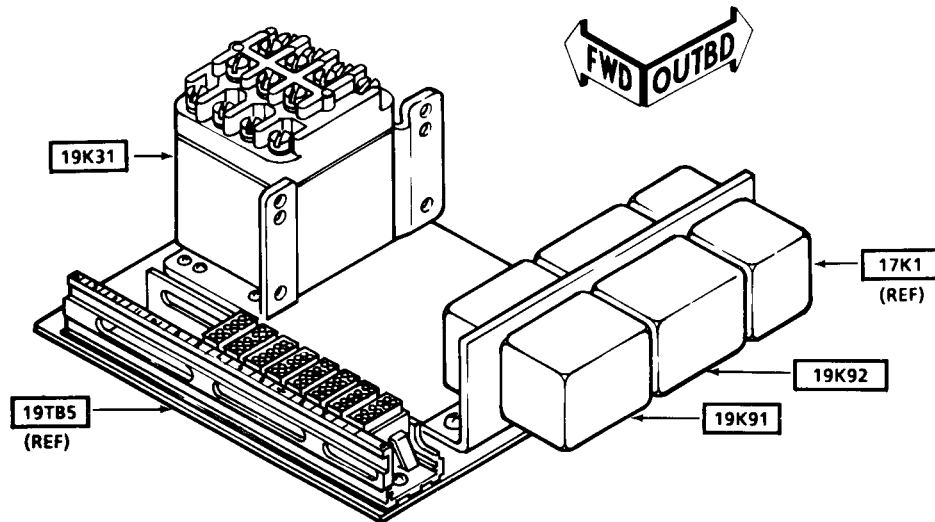
VIEW D
LOOKING INBOARD LEFT SIDE

209075-643-3

Figure F-18.1 **P** Armament Relay Location (Sheet 3 of 4)



VIEW E
 LOOKING FORWARD IN
 AFT ELECTRICAL COMPARTMENT



VIEW F
 LOOKING DOWN RIGHT SIDE
 IN PILOT COCKPIT BELOW
 INSTRUMENT PANEL

209075-643-4

Figure F-18.1 **P** Armament Relay Location (Sheet 4 of 4)

NOTE
To be used
With FO-41.

Figure F-19. **E** AC Electrical Load Chart (sheet 1 of 16)

CODE NO.	START AND WARM-UP																	
	5 SECOND AVG						2 MINUTE AVG						15 MINUTE AVG					
	PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N	
	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR
	AC BUS SYS																	
	26 VAC																	
	F. FLIGHT INSTRUMENTS																	
F085					1.46	9.00					1.46	9.00					1.46	9.00
R053					2.52	3.12					2.52	3.12					2.52	3.12
R102					8.32	6.24					8.32	6.24					8.32	6.24
	X. AC POWER																	
X023					1.71	8.43					1.71	8.43					1.71	8.43
TOTAL 26 VAC																		
					14.01	9.93					14.01	9.93					14.01	9.93
					17.17 VA AT						17.17 VA AT						17.17 VA AT	
					0.816 LAG.						0.816 LAG.						0.816 LAG.	
TOTAL 3 PHASE WATTS VAR																		
	14.01		9.93				14.01		9.93				14.01		9.93			
					17.2 VA AT						17.2 VA AT				17.2 VA AT			
					0.816 LAG.						0.816 LAG.				0.816 LAG.			
C032	59.34	35.21					59.34	35.21					59.34	35.21				
	E. ENGINE INSTRUMENTS																	
E046	2.91	0.26					2.91	0.26					2.91	0.26				
E046A																		
E046B																		
	F. FLIGHT INSTRUMENTS																	
F018																		
F018A					15.36	5.73					15.36	5.73					15.36	5.73
F018B																		
F025	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75
F078	20.00	15.00					20.00	15.00					20.00	15.00				
F087	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15
	H. HEATING																	
H068					2.30	1.30					2.30	1.30					2.30	1.30
	X. AC POWER																	
X025	266.60	54.14	266.60	54.14	266.60	54.14	240.31	48.80	240.31	48.80	240.31	48.80	221.37	44.95	221.37	44.95	221.37	44.95
TOTAL 115 VAC																		
	357.49		275.24		292.90		331.19		248.95		266.60		312.26		230.01		247.07	
	108.51		58.04		62.46		103.17		52.70		57.12		99.32		48.85		53.28	
	373.60 VA AT		281.30 VA AT		299.49 VA AT		346.89 VA AT		254.46 VA AT		272.65 VA AT		327.67 VA AT		235.14 VA AT		253.33 VA AT	
	0.957 LAG.		0.978 LAG.		0.978 LAG.		0.955 LAG.		0.978 LAG.		0.978 LAG.		0.953 LAG.		0.978 LAG.		0.978 LAG.	
TOTAL 3 PHASE WATTS VAR																		
	925.64		229.01				846.74		212.99				789.94		201.45			
			953.5 VA AT						873.1 VA AT						815.2 VA AT			
			0.971 LAG.						0.970 LAG.						0.969 LAG.		209475-453-2	

Figure F-19. **E** AC Electrical Load Chart (Sheet 2 of 16)

CODE NO.		START AND WARM-UP (CONT)																	
		5 SECOND AVG						2 MINUTE AVG						15 MINUTE AVG					
		PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N	
		WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs
A003 A039 X026	TOTAL AC BUS SYS																		
	357.49		275.24		306.91		331.19		248.95		280.61		312.26		230.01		261.68		
	108.51		58.04		72.39		103.17		52.70		67.05		99.32		48.85		53.21		
	373.60 VA AT		281.30 VA AT		315.33 VA AT		346.89 VA AT		254.46 VA AT		288.51 VA AT		327.67 VA AT		235.14 VA AT		269.21 VA AT		
	0.957 LAG.		0.978 LAG.		0.973 LAG.		9.955 LAG.		0.978 LAG.		0.973 LAG.		0.953 LAG.		9.978 LAG.		0.972 LAG.		
	TOTAL 3 PHASE WATTS		VARs				WATTS		VARs				WATTS		VARs				
	939.65		238.94				860.75		222.92				803.95		211.38				
	969.5 VA AT						889.1 VA AT						831.3 VA AT						
	0.969 LAG.						0.968 LAG.						0.967 LAG.						
	PHASE UNBALANCE		2.77%				2. %						2.78 %						
A001 A002	TOTAL 115 VAC ARMAMENT																		
	TOTAL BASIC + ARM																		
	357.49		275.24		306.91		331.19		248.95		280.61		312.26		230.01		261.68		
	108.51		58.04		72.39		103.17		52.70		67.05		99.32		48.85		63.21		
	373.60 VA AT		281.30 VA AT		315.33 VA AT		346.89 VA AT		254.46 VA AT		288.51 VA AT		327.67 VA AT		235.14 VA AT		269.21 VA AT		
	0.957 LAG.		0.978 LAG.		0.973 LAG.		9.955 LAG.		0.978 LAG.		0.973 LAG.		0.953 LAG.		9.978 LAG.		0.972 LAG.		
	TOTAL 3 PHASE WATTS		VARs				WATTS		VARs				WATTS		VARs				
	939.65		238.94				860.75		222.92				803.95		211.38				
	969.5 VA AT						889.1 VA AT						831.3 VA AT						
	0.969 LAG.						0.968 LAG.						0.967 LAG.						
PHASE UNBALANCE		2.77%				2.77%						2.78 %							
	TOTAL 115 VAC (WITH TOW ENERGIZED)																		
	TOTAL BASIC + TOW																		
	357.49		275.24		306.91		331.19		248.95		280.61		312.26		230.01		261.68		
	108.51		58.04		72.39		103.17		52.70				99.32		48.85		63.21		
	373.60 VA AT		281.30 VA AT		315.33 VA AT		346.89 VA AT		254.46 VA AT		288.51 VA AT		327.67 VA AT		235.14 VA AT		269.21 VA AT		
	0.957 LAG.		0.978 LAG.		0.973 LAG.		9.955 LAG.		0.978 LAG.		0.973 LAG.		0.953 LAG.		9.978 LAG.		0.972 LAG.		
	TOTAL 3 PHASE WATTS		VARs				WATTS		VARs				WATTS		VARs				
	939.65						860.75		222.92				803.95		211.38				
	969.5 VA AT						889.1 VA AT						831.3 VA AT						
	0.969 LAG.						0.968 LAG.						0.967 LAG.						
PHASE UNBALANCE		2.77%				2.77%						2.78 %				209475-453-3			

Figure F-19. **E** AC Electrical Load Chart (Sheet 4 of 16)

CODE NO.	TAKE-OFF (CONT)											
	5 SECOND AVG						2 MINUTE AVG					
	PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N	
	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR
TOTAL AC BUS SYS												
	357.49	275.24	306.91				331.19	248.95	280.61			
	108.51	58.04	72.39				103.17	52.70	67.05			
	373.60 VA AT	281.30 VA AT	315.33 VA AT				346.89 VA AT	254.46 VA AT	288.51 VA AT			
	0.957 LAG.	0.978 LAG.	0.973 LAG.				9.955 LAG.	0.978 LAG.	0.973 LAG.			
TOTAL 3 PHASE												
	WATTS	VAR					WATTS	VAR				
	939.65	238.94					860.75	222.92				
	969.5 VA AT						889.1 VA AT					
	0.969 LAG.						0.968 LAG.					
PHASE UNBALANCE												
		2.77%						2.77%				
AC BUS ARMAMENT												
115 VAC ARMAMENT												
A. ARMAMENT												
X. AC POWER												
A003												
A039												
X026												
TOTAL 115 VAC ARMAMENT												
TOTAL BASIC + ARM												
	357.49	275.24	306.91				331.19	248.95	280.61			
	108.51	58.04	72.39				103.17	52.70	67.05			
	373.60 VA AT	281.30 VA AT	315.33 VA AT				346.89 VA AT	254.46 VA AT	288.51 VA AT			
	0.957 LAG.	0.978 LAG.	0.973 LAG.				9.955 LAG.	0.978 LAG.	0.973 LAG.			
TOTAL 3 PHASE												
	WATTS	VAR					WATTS	VAR				
	939.65	238.94					860.75	222.92				
	969.5 VA AT						889.1 VA AT					
	0.969 LAG.						0.968 LAG.					
PHASE UNBALANCE												
		2.77%						2.77%				
AC BUS TOW												
115 VAC (WITH TOW ENERGIZED)												
A. ARMAMENT												
A001												
A002												
TOTAL 115 VAC (WITH TOW ENERGIZED)												
TOTAL BASIC + ARM + TOW												
	357.49	275.24	306.91				331.19	248.95	280.61			
	108.51	58.04	72.39				103.17	52.70	67.05			
	373.60 VA AT	281.30 VA AT	315.33 VA AT				346.89 VA AT	254.46 VA AT	288.51 VA AT			
	0.957 LAG.	0.978 LAG.	0.973 LAG.				9.955 LAG.	0.978 LAG.	0.973 LAG.			
TOTAL 3 PHASE												
	WATTS	VAR					WATTS	VAR				
	939.65	238.94					860.75	222.92				
	969.5 VA AT						889.1 VA AT					
	0.969 LAG.						0.968 LAG.					
PHASE UNBALANCE												
		2.77%						2.77%				

Figure F-19. **E** AC Electrical Load Chart (Sheet 5 of 16)

CODE NO.	CRUISE												15 MINUTE AVG					
	5 SECOND AVG						2 MINUTE AVG						PHASE A TO N		PHASE B TO N		PHASE C TO N	
	PHASE A TO N	PHASE B TO N	PHASE C TO N	PHASE A TO N	PHASE B TO N	PHASE C TO N	PHASE A TO N	PHASE B TO N	PHASE C TO N	PHASE A TO N	PHASE B TO N	PHASE C TO N	WATTS	WATTS	WATTS	WATTS	WATTS	
	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	WATTS	
	AC BUS SYS																	
	26 VAC																	
F085					1.46	9 00						1.46	9 00			1.46	9 00	
R053					2.52	3 12						2 52	3 12			2 52	3 12	
R102					8.32	6 24						8 32	6 24			8 32	6 24	
X023					1.71	8 43						1.71	8 43			1.71	8 43	
	TOTAL 26 VAC																	
					14.01	9 93						14.01	9 93			14.01	9 93	
					17.17 VA AT	0.816 LAG.						17.17 VA AT	0.816 LAG.			17.17 VA AT	0.816 LAG.	
	TOTAL 3 PHASE		WATTS		WATTS		WATTS		WATTS		WATTS		WATTS		WATTS		WATTS	
			14.01		9.93		14.01		9.93		14.01		9.93		14.01		9.93	
			17.2 VA AT		0.816 LAG.		17.2 VA AT		0.816 LAG.		17.2 VA AT		0.816 LAG.		17.2 VA AT		0.816 LAG.	
	115 VAC																	
C032	59.34	35.21					59.34	35.21				59.34	35.21			59.34	35.21	
E046	2.91	0.26					2.91	0.26				2.91	0.26			2.91	0.26	
E046A																		
E046B																		
F018					15.36	5 73						15.36	5 73			15.36	5 73	
F018A																		
F018B																		
F025	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	
F078	20.00	15.00					20.00	15.00				20.00	15.00			20.00	15.00	
F087	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	
	H. HEATING																	
H068					2.30	-1.30						2.30	-1.30			2.30	-1.30	
	X. AC POWER																	
X025	449.98	91.37	449.98	91.37	449.98	91.37	423.68	86.03	423.68	86.03	423.68	86 03	282.49	57.36	282.49	57.36	282.49	
	TOTAL 115 VAC																	
	540.86		458.62		476.27		514.57		432.32		449.97		373.38		291.13		308.79	
	145.74		95.27		99 70		140.40		89.93		94 36		111.73		61.26		65 69	
	560.16 VA AT		468.41 VA AT		486.60 VA AT		533.38 VA AT		441.57 VA AT		459.76 VA AT		389.74 VA AT		297.51 VA AT		315.70 VA AT	
	0.966 LAG.		0.979 LAG.		0.979 LAG.		0.965 LAG.		0.979 LAG.		0.979 LAG.		0.958 LAG.		0.979 LAG.		0.978 LAG.	
	TOTAL 3 PHASE		WATTS		WATTS		WATTS		WATTS		WATTS		WATTS		WATTS		WATTS	
			1475.75		340.71		1396.86		324.69		973.31		238 69		1002.1 VA AT		209475-453-6	
			1514.6 VA AT		0.974 LAG.		1434.1 VA AT		0.974 LAG.		1002.1 VA AT		0.971 LAG.					

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Figure F-19.  AC Electrical Load Chart (Sheet 7 of 16)

CODE NO.	CRUISE (CONT)																	
	5 SECOND AVG						2 MINUTE AVG						15 MINUTE AVG					
	PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N	
	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs
TOTAL BASIC - ARM - TOW																		
	540.86		458.62		490.28		514.57		432.32		463.99		373.38		291.13		322.80	
	145.74		95.27		109.63		140.40		89.93		104.29		111.73		61.26		75.62	
	560.16 VA AT		468.41 VA AT		502.39 VA AT		533.38 VA AT		441.57 VA AT		475.56 VA AT		389.74 VA AT		297.51 VA AT		331.54 VA AT	
	0.966 LAG.		0.979 LAG.		0.976 LAG.		0.965 LAG.		0.979 LAG.		0.976 LAG.		0.958 LAG.		0.979 LAG.		0.974 LAG.	
TOTAL 3 PHASE	WATTS		VARs				WATTS		VARs				WATTS		VARs			
	1489.76		350.64				1410.87		334.62				987.32		248.62			
			1530.5 VA AT						1450.0 VA AT						1018.1 VA AT			
			0.973 LAG.						0.973 LAG.						0.970 LAG.			
PHASE UNBALANCE			2.75 %						2.75 %						2.77%			

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Figure F-19. **E** AC Electrical Load Chart (Sheet 8 of 16)

CODE NO.	CRUISE — COMBAT											
	5 SECOND AVG						2 MINUTE AVG					
	PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N	
	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR
	AC BUS SYS											
	26 VAC											
F085					1.46	9.00					1.46	9.00
	F. FLIGHT INSTRUMENTS											
R053					2.52	3.12					2.52	3.12
R102					8.32	6.24					8.32	6.24
	R RADIO NAV & COMM											
	X. AC POWER											
X023					1.71	-8.43					1.71	-8.43
TOTAL 26 VAC					14.01	9.93					14.01	9.93
	17.17 VA AT 0.816 LAG.											
TOTAL 3 PHASE	WATTS	VAR					WATTS	VAR				
	14.01	9.93					14.01	9.93				
	17.2 VA AT 0.816 LAG.											
	115 VAC											
C032	59.34	35.21					59.34	35.21				
	C. FLIGHT CONTROLS											
E046	2.91	0.26					2.91	0.26				
E046A												
E046B												
	E. ENGINE INSTRUMENTS											
F018												
F018A					15.36	5.73					15.36	5.73
F018B												
F025	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75
F078	20.00	15.00					20.00	15.00				
F087	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15
	H. HEATING											
H068					2.30	-1.30					2.30	-1.30
	X. AC POWER											
X025	677.27	137.53	677.27	137.53	677.27	137.53	650.97	132.18	650.97	132.18	650.97	132.18
TOTAL 115 VAC	768.16	685.91			703.57		741.86	659.61			677.27	
	191.90		141.43		145.85		186.56		136.08		140.51	
	791.70 VA AT 0.970 LAG.	700.34 VA AT 0.979 LAG.	718.53 VA AT 0.979 LAG.				764.96 VA AT 0.970 LAG.	673.50 VA AT 0.979 LAG.	691.69 VA AT 0.979 LAG.			
TOTAL 3 PHASE	WATTS	VAR					WATTS	VAR				
	2157.63	479.18					2078.74	463.15				
	2210.2 VA AT 0.976 LAG.											
	2071.8 VA AT 0.976 LAG.											
	209475-453.9											

Figure F-19. **E** AC Electrical Load Chart (Sheet 9 of 16)

CODE NO.	CRUISE — COMBAT (CONT)																		
	5 SECOND AVG						2 MINUTE AVG						15 MINUTE AVG						
	PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N		
	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	
	768.16		685.91		717.58	155.78	741.86	186.56	659.61	136.08	691.28	150.44	722.93	182.71	640.68	132.24	672.34	146.60	
	791.75 VA AT 0.970 LAG.		700.34 VA AT 0.979 LAG.		734.29 VA AT 0.977 LAG.		764.96 VA AT 0.970 LAG.		673.50 VA AT 0.979 LAG.		707.46 VA AT 0.977 LAG.		745.66 VA AT 0.970 LAG.		654.18 VA AT 0.979 LAG.		688.14 VA AT 0.977 LAG.		
	TOTAL 3 PHASE	WATTS		WATTS				WATTS		WATTS				WATTS		WATTS			
		2171.64		489.10				2092.75		473.08				2036.95		461.55			
		2226.0 VA AT						2145.6 VA AT						2087.6 VA AT					
		0.976 LAG.						0.975 LAG						0.975 LAG.					
	PHASE UNBALANCE	2.74 %						2.74 %						2.74%					
	AC BUS ARMAMENT																		
	115 VAC ARMAMENT																		
	A. ARMAMENT																		
A003	13.35	0.0					13.35	0.0					13.35	0.0					
A039	14.15	34.26	32.60	-12.07	35.98	-17.22	14.15	34.26	32.00	-12.07	35.98	-17.22	14.15	34.26	32.60	-12.67	35.98	-17.22	
X- AC POWER																			
X026	526.94	107.00	526.94	107.00	526.94	107.00	506.78	102.90	506.78	102.90	506.78	102.90	479.34	97.33	479.34	97.33	479.34	97.33	
TOTAL 115 VAC ARMAMENT																			
	554.44		559.54		562.92		534.28		539.38		542.76		506.84		511.94		515.32		
	141.26		94.93		89.78		137.16		90.83		85.68		131.59		84.26		80.11		
	572.15 VA AT 0.909 LAG.		567.53 VA AT 0.986 LAG.		570.03 VA AT 0.988 LAG.		551.61 VA AT 0.969 LAG.		546.97 VA AT 0.986 LAG.		549.48 VA AT 0.988 LAG.		523.65 VA AT 0.968 LAG.		519.00 VA AT 0.985 LAG.		521.51 VA AT 0.988 LAG.		
TOTAL 3 PHASE	WATTS		WATTS				WATTS		WATTS				WATTS		WATTS				
	3848.54		815.07				3709.17		786.77				1534.11		296.97				
	3033.9 VA AT						3791.7 VA AT						1562.6 VA AT						
	0.978 LAG.						0.978 LAG.						0.982 LAG.						
PHASE UNBALANCE	2.89 %						2.89 %						2.89 %						
AC BUS TOW																			
115 VAC (WITH TOW ENERGIZED)																			
A001	11.53	-8.22	-25.09	2.38	-11.07	18.98	11.53	-8.22	-25.00	-2.38	-11.07	-18.98	11.53	-8.22	-25.09	2.38	-11.07	18.98	
A002	24.29	37.01	32.20	24.13	47.74	-24.03	24.29	37.01	32.20	24.13	47.74	-24.03	24.20	37.01	32.20	24.13	47.74	-24.03	
209475-453-10																			

CODE NO.	CRUISE — COMBAT (CONT)																		
	5 SECOND AVG						2 MINUTE AVG						15 MINUTE AVG						
	PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N		
	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	
	TOTAL 115 VAC (WITH TOW ENERGIZED)																		
	35.82		7.11		36.67		35.82		7.11		36.67		35.82		7.11		36.67		
	28.79		26.51		5.05		28.79		26.51		5.05		28.79		26.51		-5.05		
	45.96 VA AT		27.45 VA AT		37.02 VA AT		45.96 VA AT		27.45 VA AT		37.02 VA AT		45.96 VA AT		27.45 VA AT		37.02 VA AT		
	0.779 LAG.		0.259 LAG.		0.991 LEAD.		0.779 LAG.		0.259 LAG.		0.991 LEAD.		9.779 LAG.		0.259 LAG.		0.991 LEAD.		
	TOTAL 3 PHASE		WATTS		VAR		WATTS		VAR		WATTS		VAR		WATTS		VAR		
			79.60		50.25		79.60		50.25		79.60		50.25		79.60		50.25		
			94.1 VA AT				94.1 VA AT				94.1 VA AT				94.1 VA AT				
			0.846 LAG.				0.846 LAG.				0.846 LAG.				0.846 LAG.				
			1358.42		1252.56		1317.17		1311.96		1206.10		1270.71		1265.59		1159.73		1224.34
	361.94		262.86		240.51		352.51		253.43		231.08		343.10		244.01		221.66		
	1405.81 VA AT		1279.84 VA AT		1338.94 VA AT		1358.49 VA AT		1232.44 VA AT		1291.55 VA AT		1311.27 VA AT		1185.12 VA AT		1244.24 VA AT		
	0.966 LAG.		0.979 LAG.		0.984 LAG.		0.966 LAG.		0.979 LAG.		0.984 LAG.		0.965 LAG.		0.979 LAG.		0.984 LAG.		
	TOTAL 3 PHASE		WATTS		VAR		WATTS		VAR		WATTS		VAR		WATTS		VAR		
			3928.14		865.32		3788.77		837.02		3649.66		808.77		3738.2 VA AT				
			4022.3 VA AT				3880.1 VA AT				3738.2 VA AT				0.976 LAG.				
			0.977 LAG.				0.976 LAG.				0.976 LAG.				3.78 %				
	PHASE UNBALANCE		3.78 %				3.78 %				3.78 %				3.78 %				

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Figure F-19. **E** AC Electrical Load Chart (Sheet 10 of 16)

Figure F-19.



AC Electrical Load Chart (Sheet 11 of 16)

CODE NO.	LAND																		
	5 SECOND AVG						2 MINUTE AVG						15 MINUTE AVG						
	PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N		
	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	
	AC BUS SYS																		
	26 VAC																		
F085					1.46	9.00					1.46	9.00					1.46	9.00	
R053					2.52	3.12					2.52	3.12					2.52	3.12	
R102					8.32	6.24					8.32	6.24					8.32	6.24	
X023					1.71	8.43					1.71	8.43					1.71	8.43	
TOTAL 26 VAC						14.01	9.93							14.01	9.93	14.01 9.93			
						17.17 VA AT 0.816 LAG.								17.17 VA AT 0.816 LAG.		17.17 VA AT 0.816 LAG.			
TOTAL 3 PHASE		WATTS	VAR																
		14.01	9.93																
		17.2 VA AT 0.816 LAG.												17.2 VA AT 0.816 LAG.					
	115 VAC																		
C032	59.34	35.21																	
E046	2.91	0.26																	
E046A																			
E046B																			
F. FLIGHT INSTRUMENTS																			
F018					15.36	5.73													
F018A																	15.36	5.73	
F018B																			
F025	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.75	
F078	20.00	15.00					20.00	15.00					20.00	15.00					
F087	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	
H. HEATING																			
H068					2.30	1.30													
X. AC POWER																			
X025	449.98	91.37	449.98	91.37	449.98	91.37	423.68	86.03	423.68	86.03	423.68	86.03	282.49	57.36	282.49	57.36	282.49	57.36	
TOTAL 115 VAC																			
		540.86		458.62		476.27	514.57		432.32		449.97		373.38		291.13		308.79		
			145.74		95.27			140.40		89.93		94.36		111.73		61.26		65.69	
		560.16 VA AT 0.966 LAG.		468.41 VA AT 0.979 LAG.		486.60 VA AT 0.979 LAG.		533.38 VA AT 0.965 LAG.		441.57 VA AT 0.979 LAG.		459.76 VA AT 0.979 LAG.		389.74 VA AT 0.958 LAG.		297.51 VA AT 0.979 LAG.		315.70 VA AT 0.978 LAG.	
TOTAL 3 PHASE		WATTS	VAR																
		1475.75	340.71																
		1514.6 VA AT 0.974 LAG.												1434.1 VA AT 0.974 LAG.					
														973.31		238.69			
														1002.1 VA AT 0.971 LAG.					

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Figure F-19.



AC Electrical Load Chart (Sheet 12 of 16)

CODE NO.	LAND (CONT)																	
	5 SECOND AVG						2 MINUTE AVG						15 MINUTE AVG					
	PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N	
	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR
A003 A039 X026	TOTAL AC BUS SYS																	
	540.86		458.62		490.28		514.57		432.32		463.99		373.38		291.13		322.80	
		145.74		95.27		109.63		140.40		89.93		104.29		111.73		61.26		75.62
	560.16 VA AT		468.41 VA AT		506.39 VA AT		533.38 VA AT		441.57 VA AT		475.56 VA AT		389.74 VA AT		297.51 VA AT		331.54 VA AT	
	0.966 LAG.		0.979 LAG.		0.976 LAG.		0.965 LAG.		0.979 LAG.		0.976 LAG.		0.958 LAG.		0.979 LAG.		0.974 LAG.	
	TOTAL 3 PHASE WATTS VAR						WATTS VAR						WATTS VAR					
	1489.76 350.64						1410.87 334.62						987.32 248.62					
	1530.5 VA AT						1450.0 VA AT						1018.1 VA AT					
	0.973 LAG.						0.973 LAG.						0.970 LAG.					
	PHASE UNBALANCE 2.75 %						2.75 %						2.77 %					
AC BUS ARMAMENT																		
115 VAC ARMAMENT																		
A. ARMAMENT																		
X. AC POWER																		
TOTAL 115 VAC ARMAMENT																		
A001 A002	TOTAL BASIC + ARM																	
	540.86		458.62		490.28		514.57		432.32		463.99		373.38		291.13		322.80	
		145.74		95.27		109.63		140.40		89.93		104.29		111.73		61.26		75.62
	560.16 VA AT		468.41 VA AT		502.39 VA AT		533.38 VA AT		441.57 VA AT		475.56 VA AT		389.74 VA AT		297.51 VA AT		331.54 VA AT	
	0.966 LAG.		0.979 LAG.		0.976 LAG.		0.965 LAG.		0.979 LAG.		0.976 LAG.		0.958 LAG.		0.979 LAG.		0.974 LAG.	
	TOTAL 3 PHASE WATTS VAR						WATTS VAR						WATTS VAR					
	1489.76 350.64						1410.87 334.62						987.32 248.62					
	1530.5 VA AT						1450.0 VA AT						1018.1 VA AT					
	0.973 LAG.						0.973 LAG.						0.970 LAG.					
	PHASE UNBALANCE 2.75 %						2.75 %						2.77 %					
AC BUS TOW																		
115 VAC (WITH TOW ENERGIZED)																		
A. ARMAMENT																		
TOTAL 115 VAC (WITH TOW ENERGIZED)																		

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CODE NO.	LAND (CONT)																	
	5 SECOND AVG						2 MINUTE AVG						15 MINUTE AVG					
	PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N	
	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs	WATTS	VARs
TOTAL BASIC + ARM + TOW	540.86		458.62		490.28		514.57		432.32		463.99		373.38		291.13		322.80	
	145.74		95.27		109.63		140.40		89.93		104.29		111.73		61.26		75.62	
	560.16 VA AT		468.41 VA AT		502.39 VA AT		533.38 VA AT		441.57 VA AT		475.56 VA AT		389.74 VA AT		297.51 VA AT		331.54 VA AT	
	0.966 LAG.		0.979 LAG.		0.976 LAG.		0.965 LAG.		0.979 LAG.		0.976 LAG.		0.958 LAG.		0.979 LAG.		0.974 LAG.	
	TOTAL 3 PHASE WATTS		VARs				WATTS		VARs				WATTS		VARs			
	1489.76		350.64				1410.87		334.62				987.32		248.62			
	1530.5 VA AT						1450.0 VA AT						1018.1 VA AT					
	0.973 LAG.						0.973 LAG.						0.970 LAG.					
PHASE UNBALANCE	2.75 %						2.75 %						2.77 %					

209475-453-14

209475-453-14

Figure F-19. AC Electrical Load Chart (Sheet 13 of 16)

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Figure F-19. AC Electrical Load Chart (Sheet 14 of 16)

CODE NO.	5 SECOND AVG						EMERGENCY 2 MINUTE AVG						10 MINUTE AVG					
	PHASE A TO N	PHASE B TO N	PHASE C TO N	WATTS	VAR	WATTS	PHASE A TO N	PHASE B TO N	PHASE C TO N	WATTS	VAR	WATTS	PHASE A TO N	PHASE B TO N	PHASE C TO N	WATTS	VAR	WATTS
AC BUS SYS																		
28 VAC																		
R. FLIGHT INSTRUMENTS																		
R088				1.46	9.00					1.46	9.00					1.46	9.00	
R. RADIO NAV & COMM																		
R089				2.52	3.12					2.52	3.12					2.52	3.12	
R102				8.32	6.24					8.32	6.24					8.32	6.24	
X. AC POWER																		
X023				1.71	8.43					1.71	8.43					1.71	8.43	
TOTAL 28 VAC																		
				14.01	9.93					14.01	9.93					14.01	9.93	
				17.17 VA AT						17.17 VA AT						17.17 VA AT		
				0.816 LAG.						0.816 LAG.						0.816 LAG.		
TOTAL 3 PHASE																		
				WATTS	VAR					WATTS	VAR					WATTS	VAR	
				14.01	9.93					14.01	9.93					14.01	9.93	
				17.2 VA AT						17.2 VA AT						17.2 VA AT		
				0.816 LAG.						0.816 LAG.						0.816 LAG.		
115 VAC																		
C. FLIGHT CONTROLS																		
C032	59.34	35.21					59.34	35.21					59.34	35.21				
C. ENGINE INSTRUMENTS																		
E046	2.91	0.26					2.91	0.26					2.91	0.26				
E046A																		
E046B																		
F. FLIGHT INSTRUMENTS																		
F018																		
F018A				48.36	5.72					48.36	5.72					48.36	5.72	
F018B																		
F021	5.31	2.75	5.31	2.75	5.31	2.75	5.31	2.74	5.31	2.75	5.31	2.75	5.31	2.74	5.31	2.75	5.31	2.75
F076	20.00	15.00					20.00	15.00					20.00	15.00				
F087	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15	3.33	1.15
H. HEATING																		
H025				2.30	1.30					2.30	1.30					2.30	1.30	
X. AC POWER																		
X026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL 115 VAC																		
	90.89	8.64	26.30				90.89	8.64	26.30				90.89	8.64	26.30			
	54.37	3.90	8.33				54.37	3.90	8.33				54.37	3.90	8.33			
	105.91 VA AT	9.48 VA AT	27.58 VA AT				105.91 VA AT	9.48 VA AT	27.58 VA AT				105.91 VA AT	9.48 VA AT	27.58 VA AT			
	0.858 LAG.	0.911 LAG.	0.953 LAG.				0.858 LAG.	0.911 LAG.	0.953 LAG.				0.858 LAG.	0.911 LAG.	0.953 LAG.			
TOTAL 3 PHASE																		
				WATTS	VAR					WATTS	VAR					WATTS	VAR	
				125.83	66.60					125.83	66.60					125.83	66.60	
				142.4 VA AT						142.4 VA AT						142.4 VA AT		
				0.884 LAG.						0.885 LAG.						0.884 LAG.		

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Figure F-19. **E** AC Electrical Load Chart (Sheet 15 of 16)

CODE NO.	EMERGENCY (CONT)																		
	5 SECOND AVG						2 MINUTE AVG						15 MINUTE AVG						
	PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N		
	WATTS	VARS	WATTS	VARS	WATTS	VARS	WATTS	VARS	WATTS	VARS	WATTS	VARS	WATTS	VARS	WATTS	VARS	WATTS	VARS	
A003 A039 X026	TOTAL AC BUS SYS																		
	90.89		8.64		40.31		90.89		8.64		40.31		90.89		8.64		40.31		
		54.37		3.90		18.26		54.37		3.90		18.26		54.37		3.90		18.26	
	105.91 VA AT		9.48 VA AT		44.25 VA AT		105.91 VA AT		9.48 VA AT		44.25 VA AT		105.91 VA AT		9.48 VA AT		44.25 VA AT		
	0.858 LAG.		0.911 LAG.		0.911 LAG.		0.858 LAG.		0.911 LAG.		0.911 LAG.		0.858 LAG.		0.911 LAG.		0.911 LAG.		
	TOTAL 3 PHASE		WATTS		VARS		TOTAL 3 PHASE		WATTS		VARS		TOTAL 3 PHASE		WATTS		VARS		
			139.84		76.53				139.84		76.53				139.84		76.53		
			159.4 VA AT						159.4 VA AT						159.4 VA AT				
			0.877 LAG.						0.877 LAG.						0.877 LAG.				
	PHASE UNBALANCE				2.89 %						2.89 %						2.89 %		
						AC BUS ARMAMENT													
						115 VAC ARMAMENT													
						A. ARMAMENT													
						X. AC POWER													
TOTAL 115 VAC ARMAMENT																			
A001 A002	TOTAL BASIC + ARM																		
	90.89		8.64		40.31		90.89		8.64		40.31		90.89		8.64		40.31		
		54.37		3.90		18.26		54.37		3.90		18.26		54.37		3.90		18.26	
	105.91 VA AT		9.48 VA AT		44.25 VA AT		105.91 VA AT		9.48 VA AT		44.25 VA AT		105.91 VA AT		9.48 VA AT		44.25 VA AT		
	0.858 LAG.		0.911 LAG.		0.911 LAG.		0.858 LAG.		0.911 LAG.		0.911 LAG.		0.858 LAG.		0.911 LAG.		0.911 LAG.		
	TOTAL 3 PHASE		WATTS		VARS		TOTAL 3 PHASE		WATTS		VARS		TOTAL 3 PHASE		WATTS		VARS		
			139.84		76.53				139.84		76.53				139.84		76.53		
			159.4 VA AT						159.4 VA AT						159.4 VA AT				
			0.877 LAG.						0.877 LAG.						0.877 LAG.				
	PHASE UNBALANCE				2.89 %						2.89 %						2.89 %		
						AC BUS TOW													
						115 VAC (WITH TOW ENERGIZED)													
						A. ARMAMENT													
TOTAL 115 VAC (WITH TOW ENERGIZED)																			

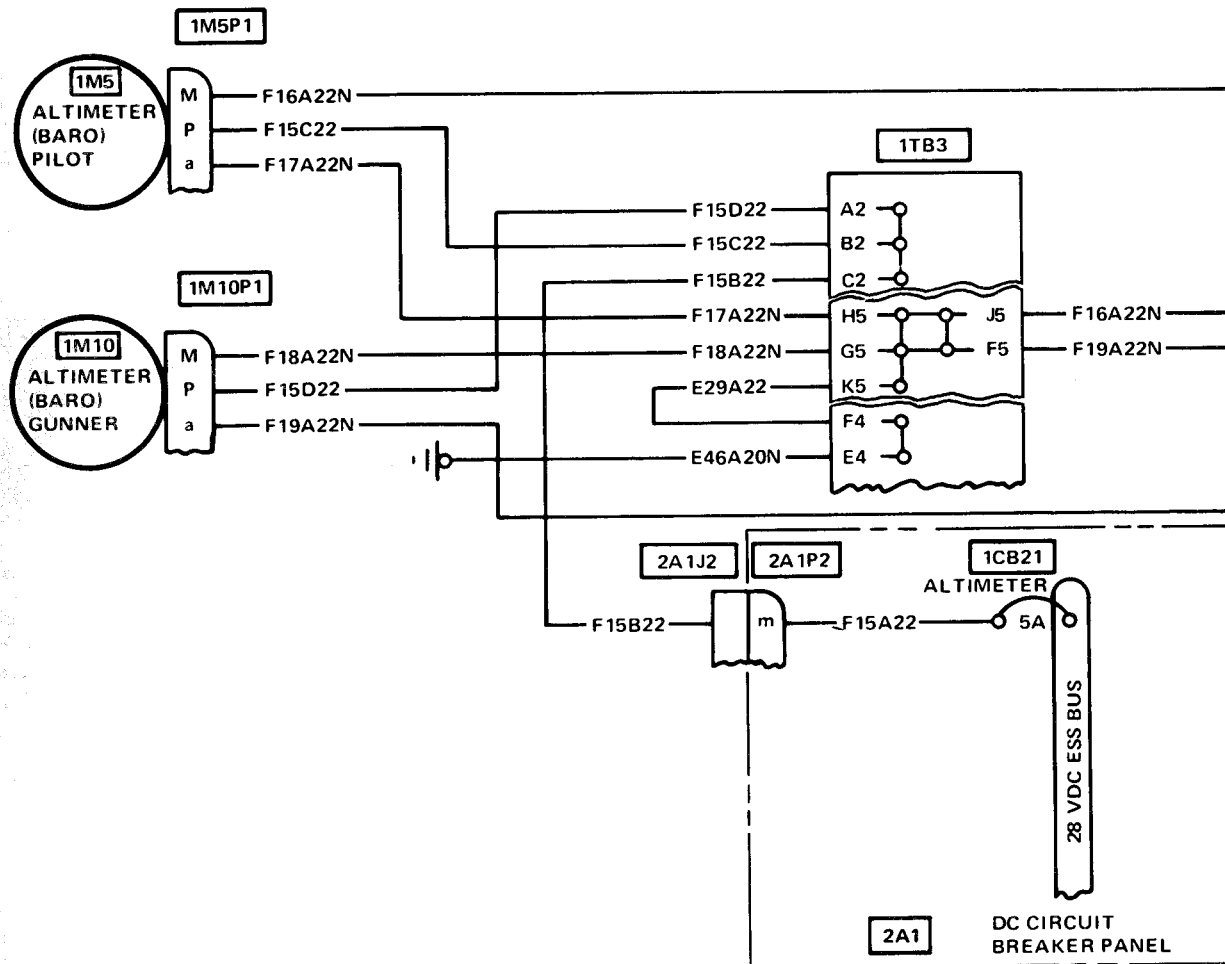
209475-453-16

209475-453-16

CODE NO.	EMERGENCY (CONT)																	
	5 SECOND AVG						2 MINUTE AVG						15 MINUTE AVG					
	PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N		PHASE A TO N		PHASE B TO N		PHASE C TO N	
	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR	WATTS	VAR
TOTAL BASIC + ARM + TOW	90.89		8.64		40.31		90.89		8.64		40.31		90.89		8.64		40.31	
		54.37		3.90		18.26		54.37		3.90		18.26		54.37		3.90		18.26
	105.91 VA AT		9.48 VA AT		44.25 VA AT		105.91 VA AT		9.48 VA AT		44.25 VA AT		105.91 VA AT		9.48 VA AT		44.25 VA AT	
	0.858 LAG.		0.911 LAG.		0.911 LAG.		0.858 LAG.		0.911 LAG.		0.911 LAG.		0.858 LAG.		0.911 LAG.		0.911 LAG.	
TOTAL 3 PHASE	WATTS		WATTS		WATTS		WATTS		WATTS		WATTS		WATTS		WATTS		WATTS	
	139.84		76.53		159.4 VA AT		139.84		76.53		159.4 VA AT		139.84		76.53		159.4 VA AT	
	0.877 LAG.						0.877 LAG.						0.877 LAG.					
PHASE UNBALANCE			2.89 %						2.89 %						2.89 %			

209475-453-17

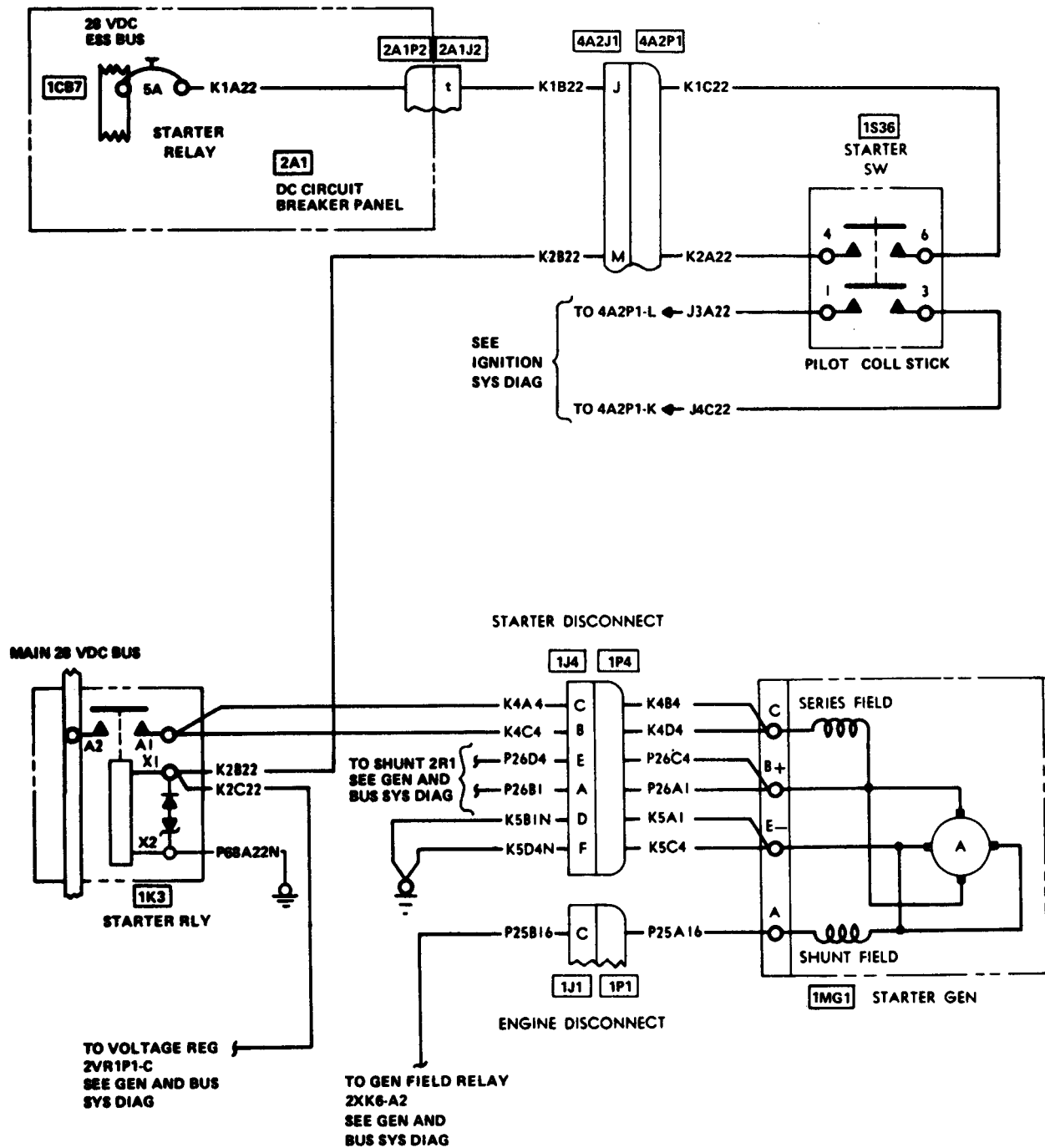
Figure F-19. **E** AC Electrical Load Chart (Sheet 16 of 16)



209475-422

Figure F-20. **E** Altimeter Vibrator System Wiring Diagram





209475-429

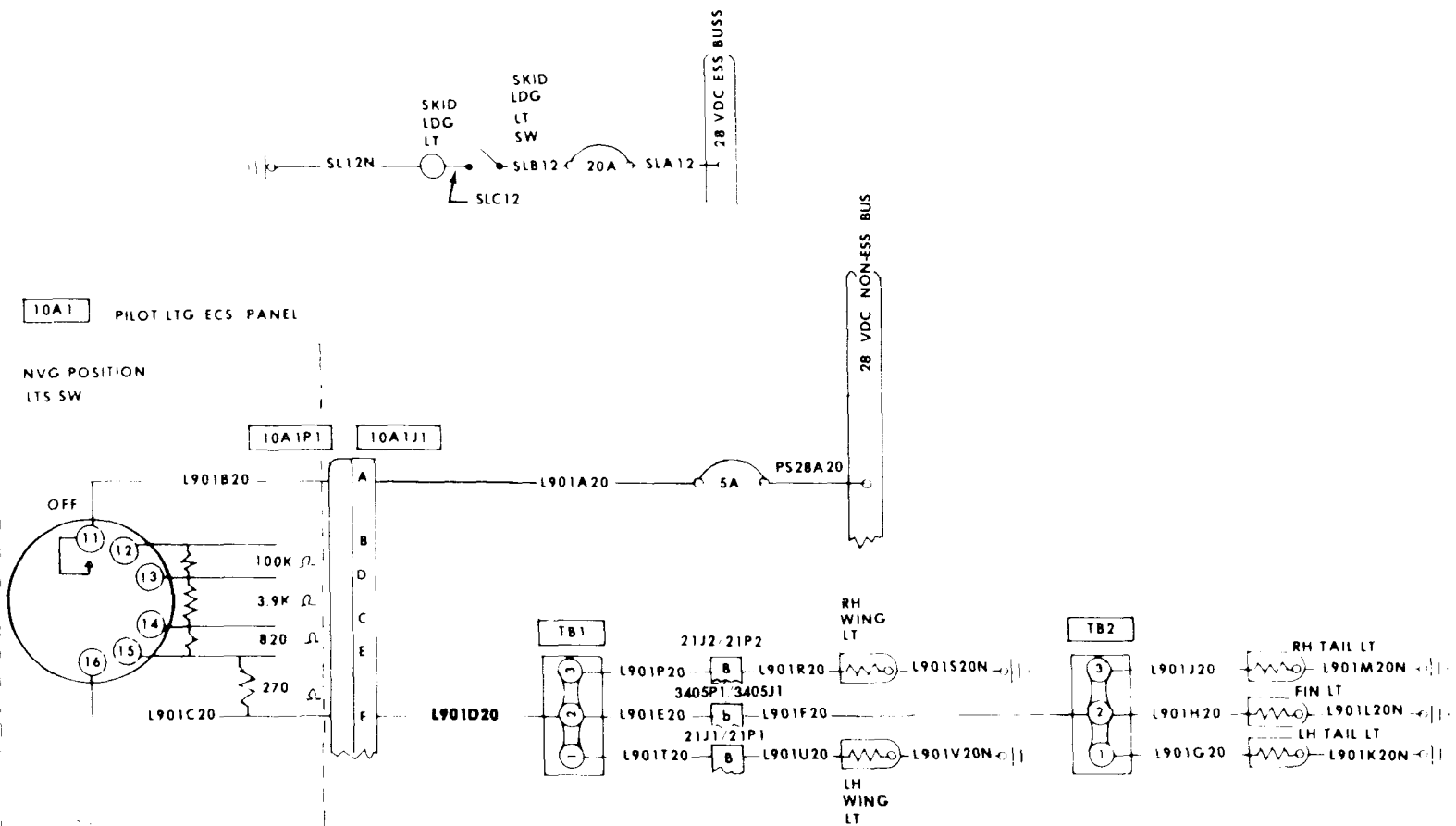
Figure F-22. **E** Starter System Wiring Diagram

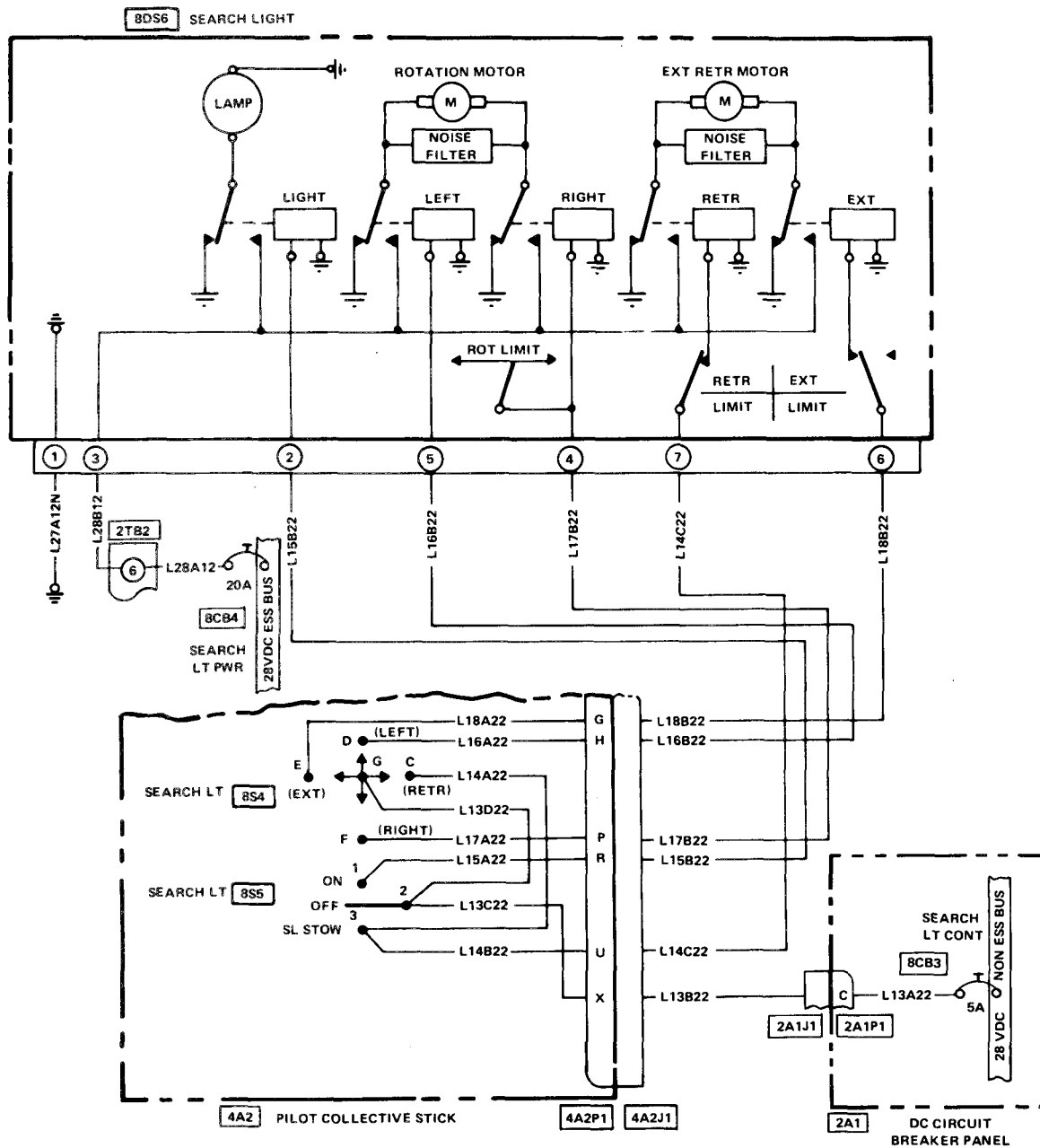
F-88

Change 8

Figure F-22.1

E Skid Landing and NVG Position Lights
(After MWO 55-1520-236-50-5)





209475-430

Figure F-23. **E** Searchlight System Wiring Diagram

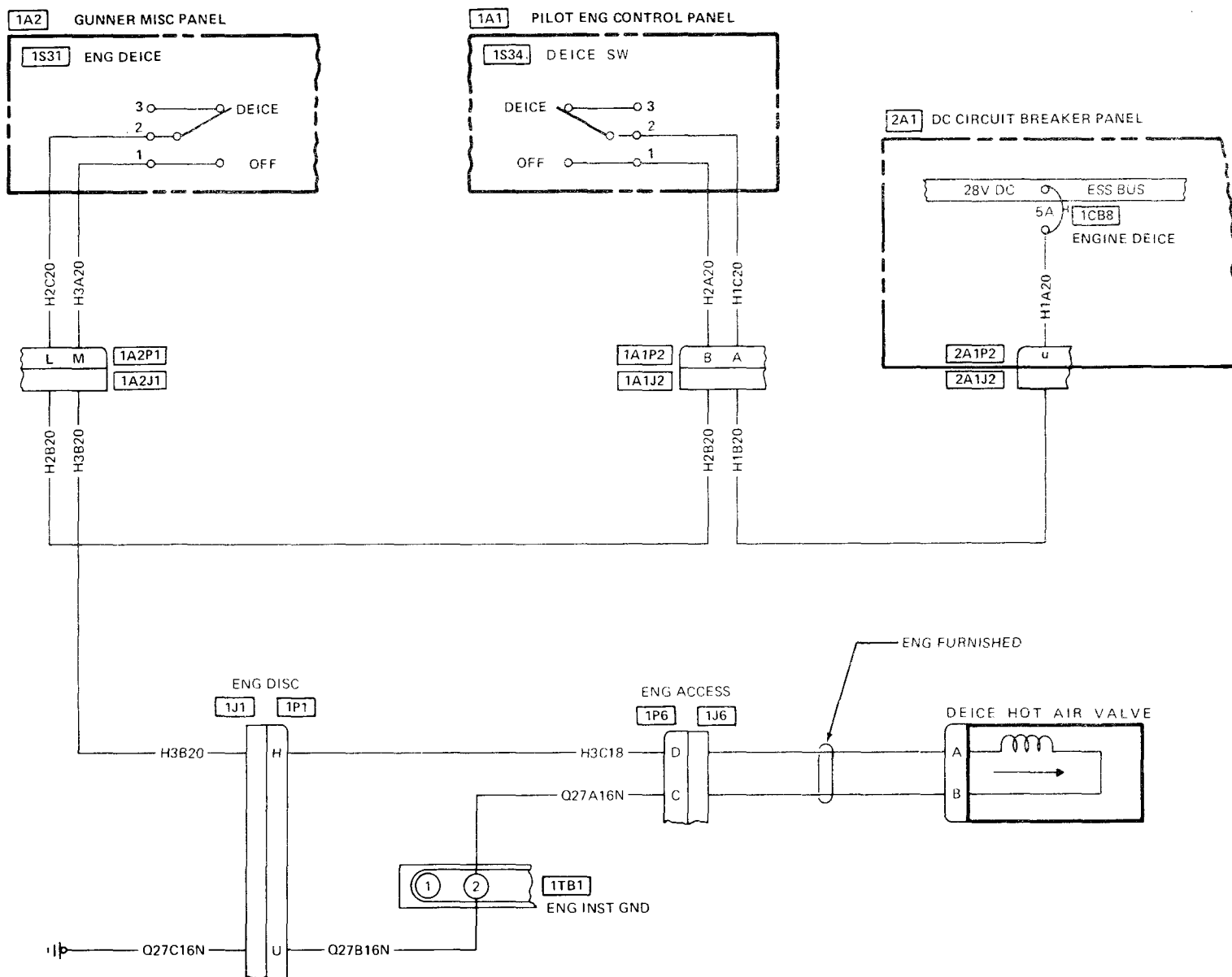
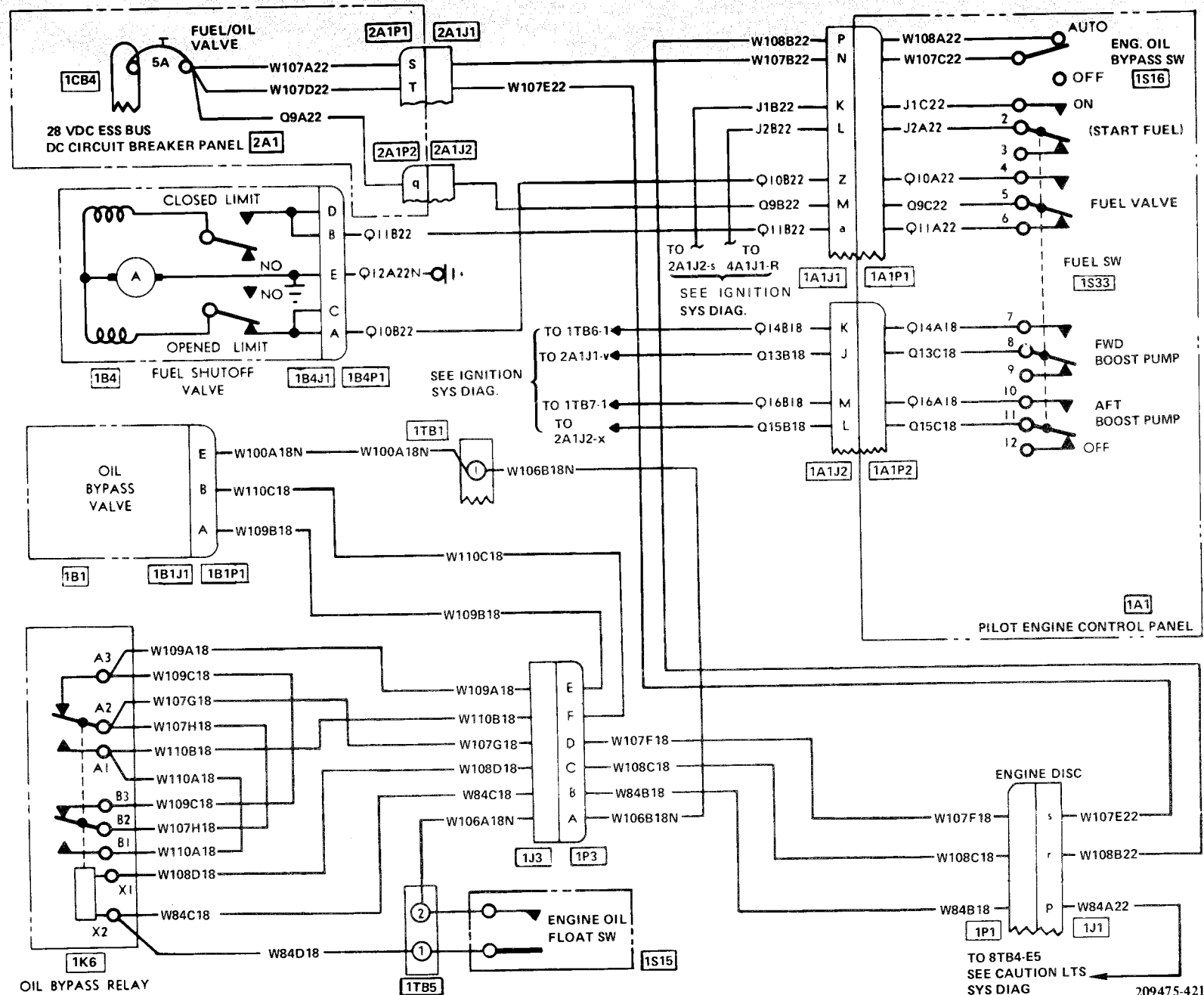
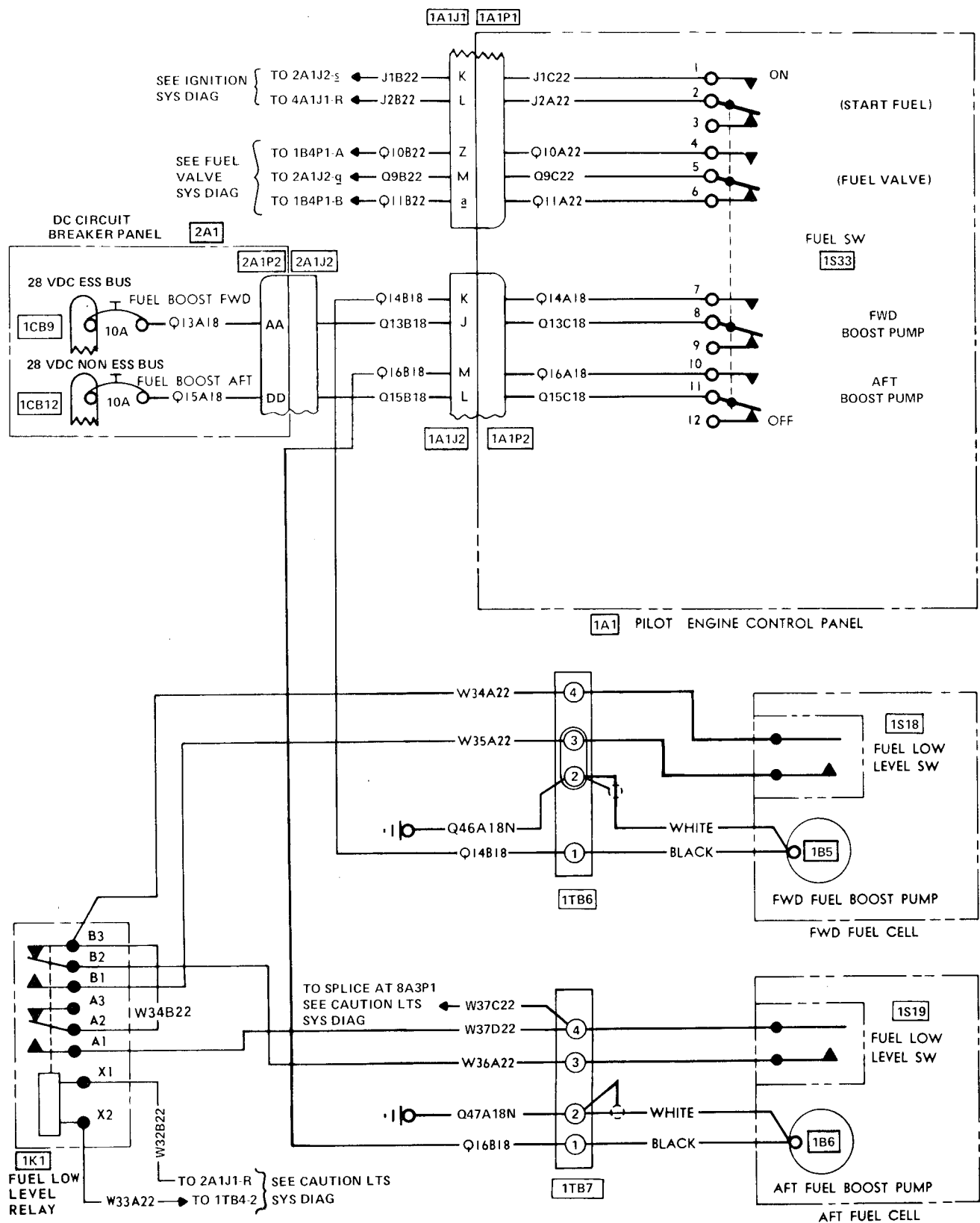


Figure F-24. E Engine De-ice System Wiring Diagram

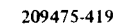
Fuel Valve and Engine Oil Valve System Wiring Diagram

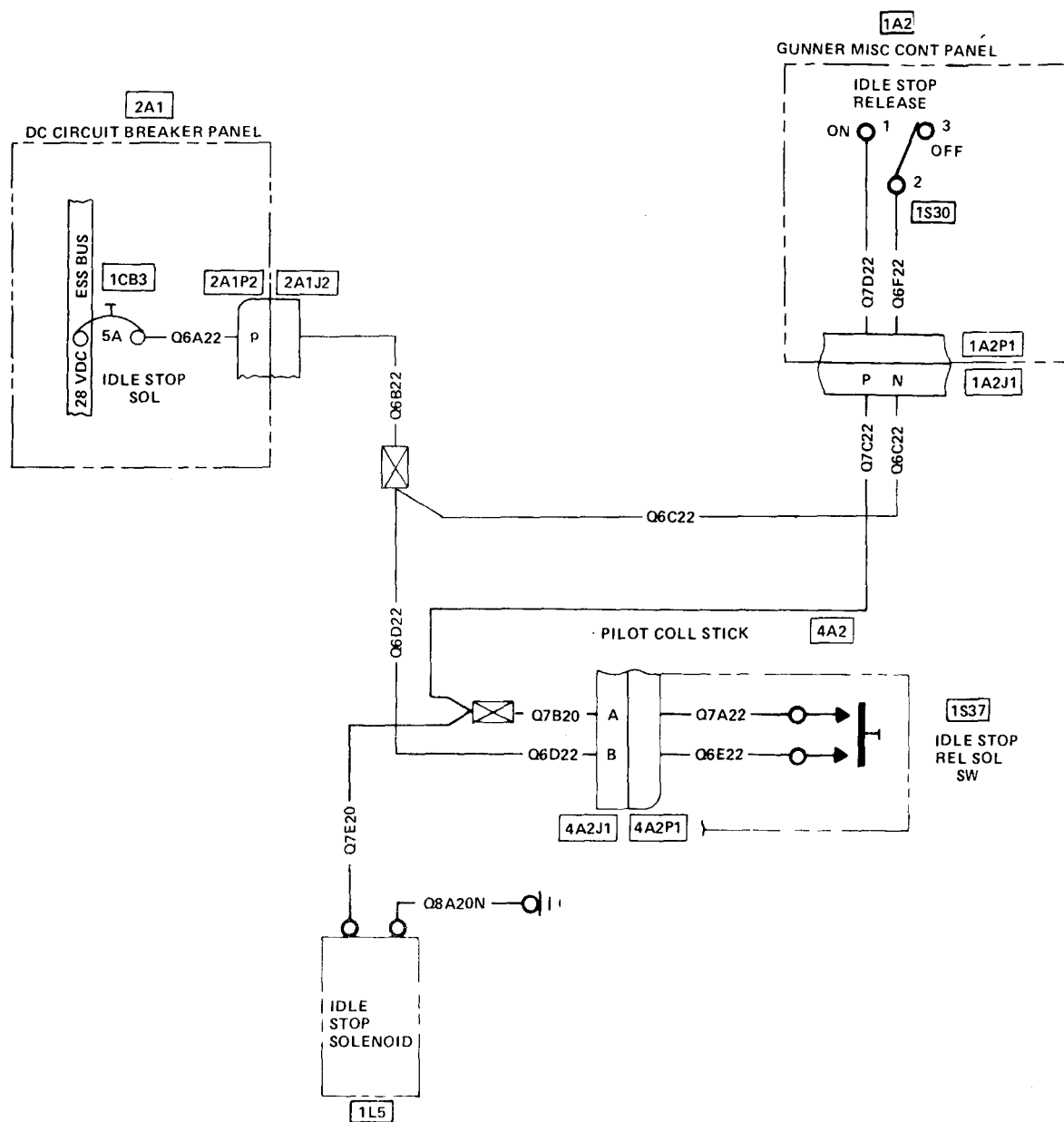




209475-418

Figure F-26. **E** Fuel Boost System Wiring Diagram



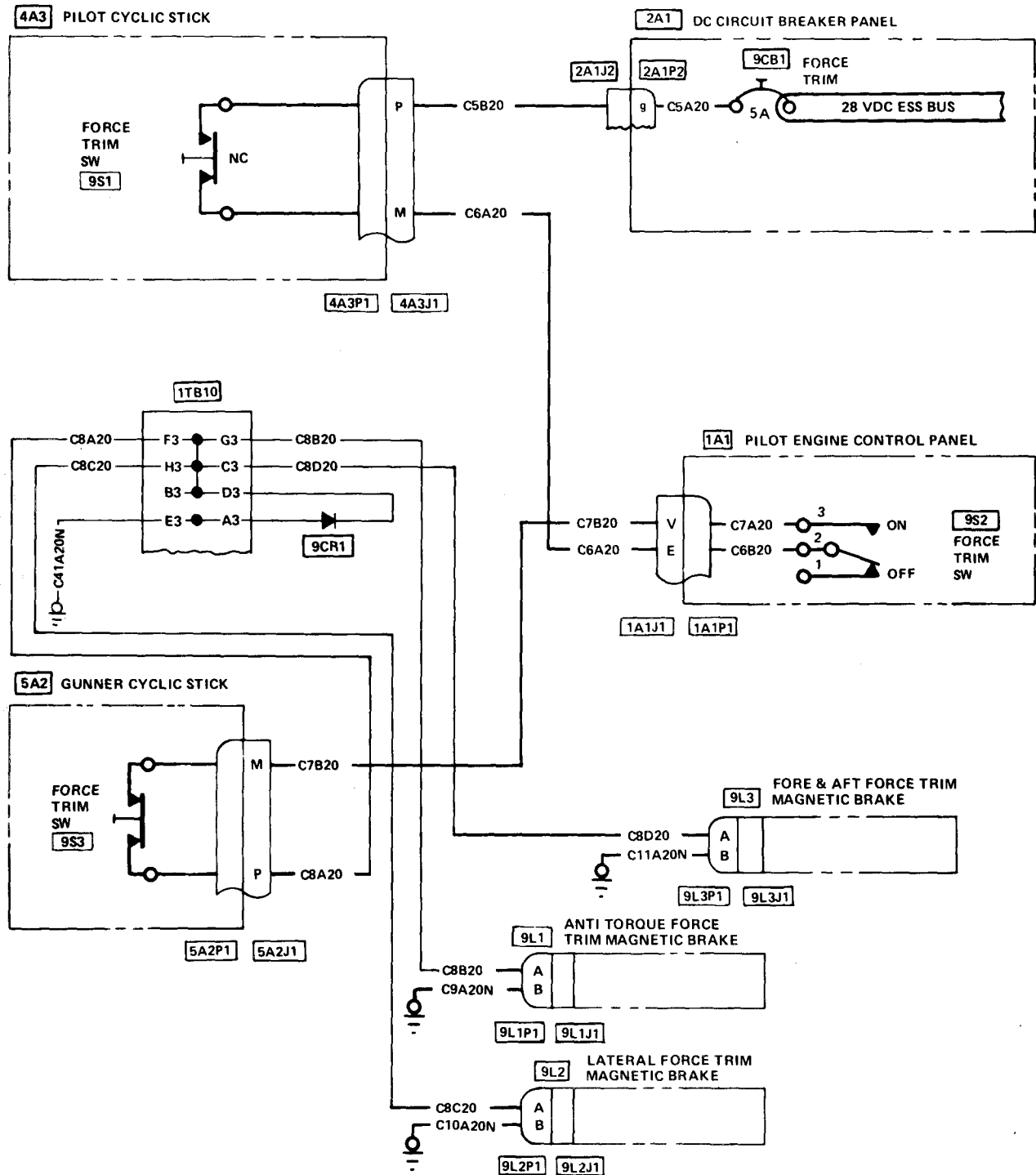


209475-432

Figure F-28.

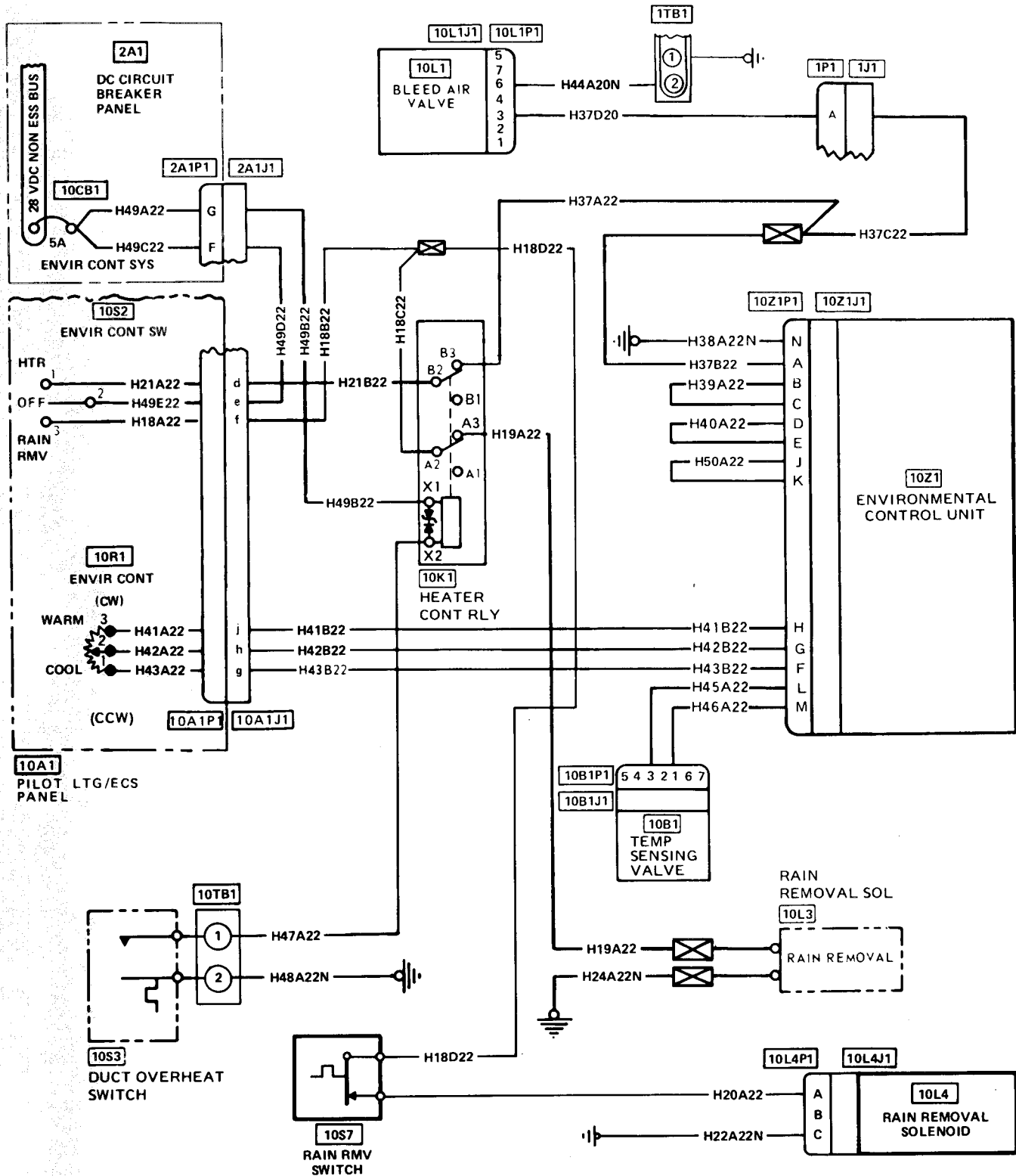
E

Idle Stop System Wiring Diagram



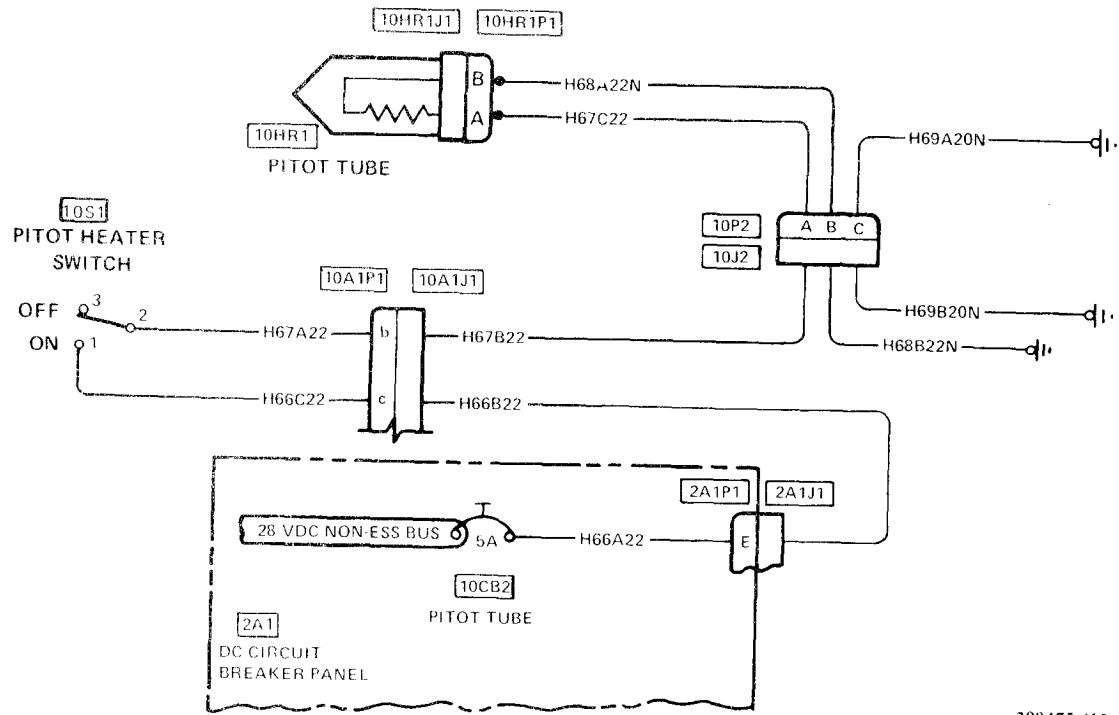
209475-420

Figure F-29. **E** Force Trim System Wiring Diagram



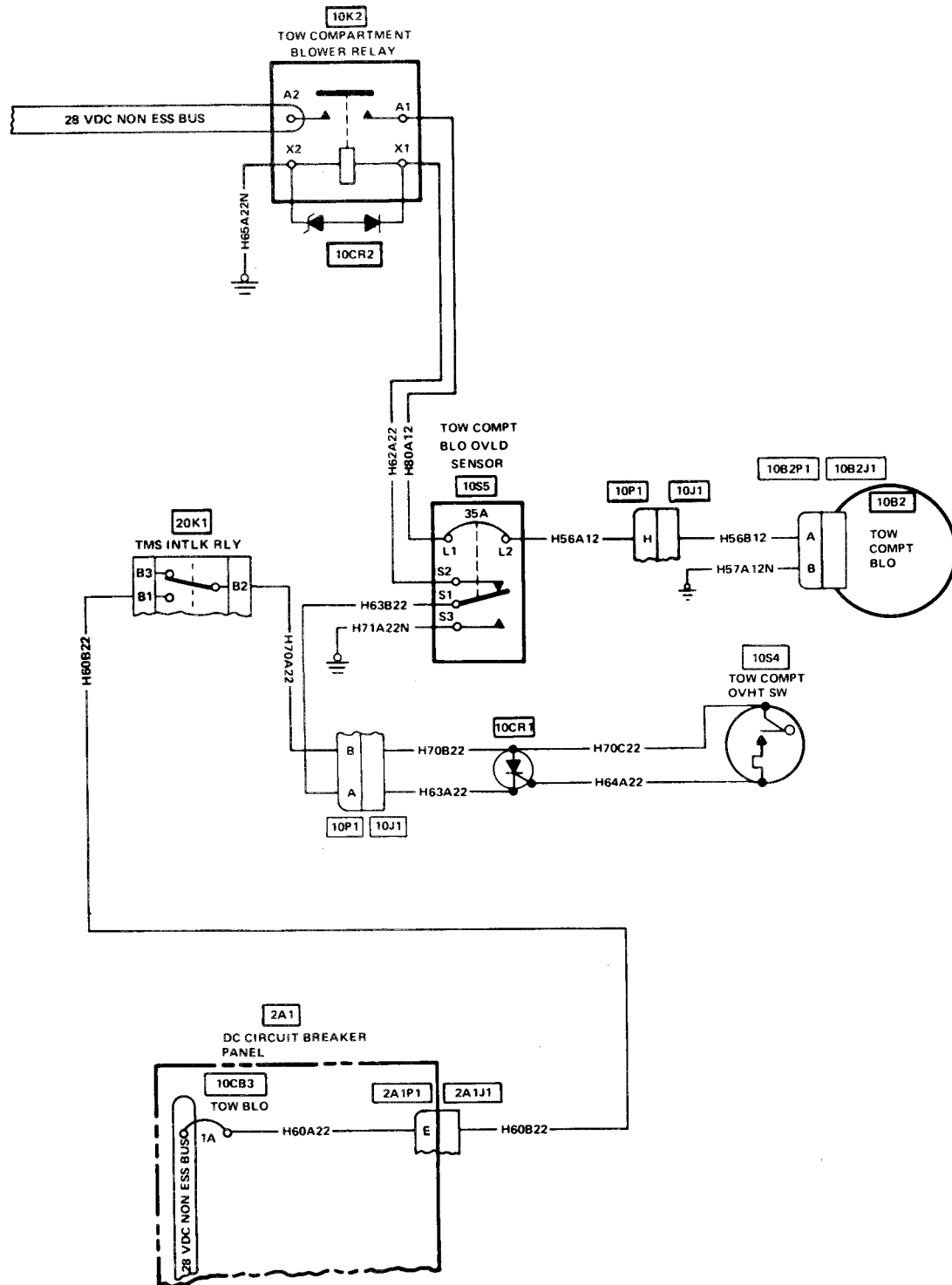
209475-412

Figure F-30. **E** Environmental Control System Wiring Diagram



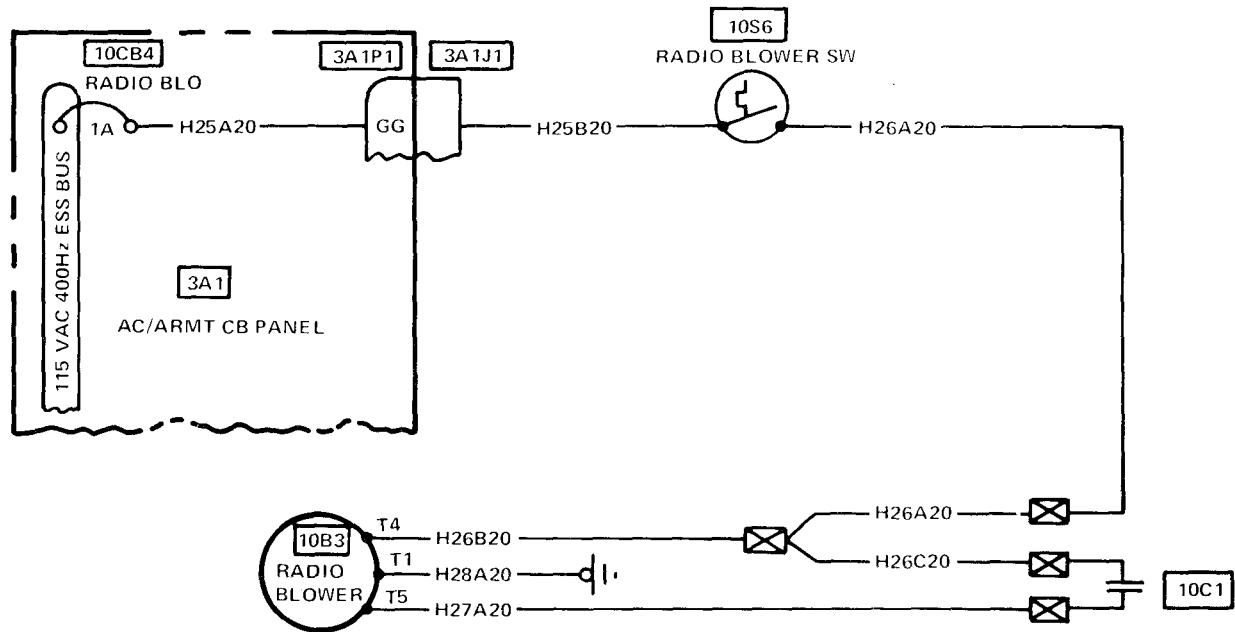
209475-413

Figure F-31. E IPitot Heater System Wiring Diagram



209475-414

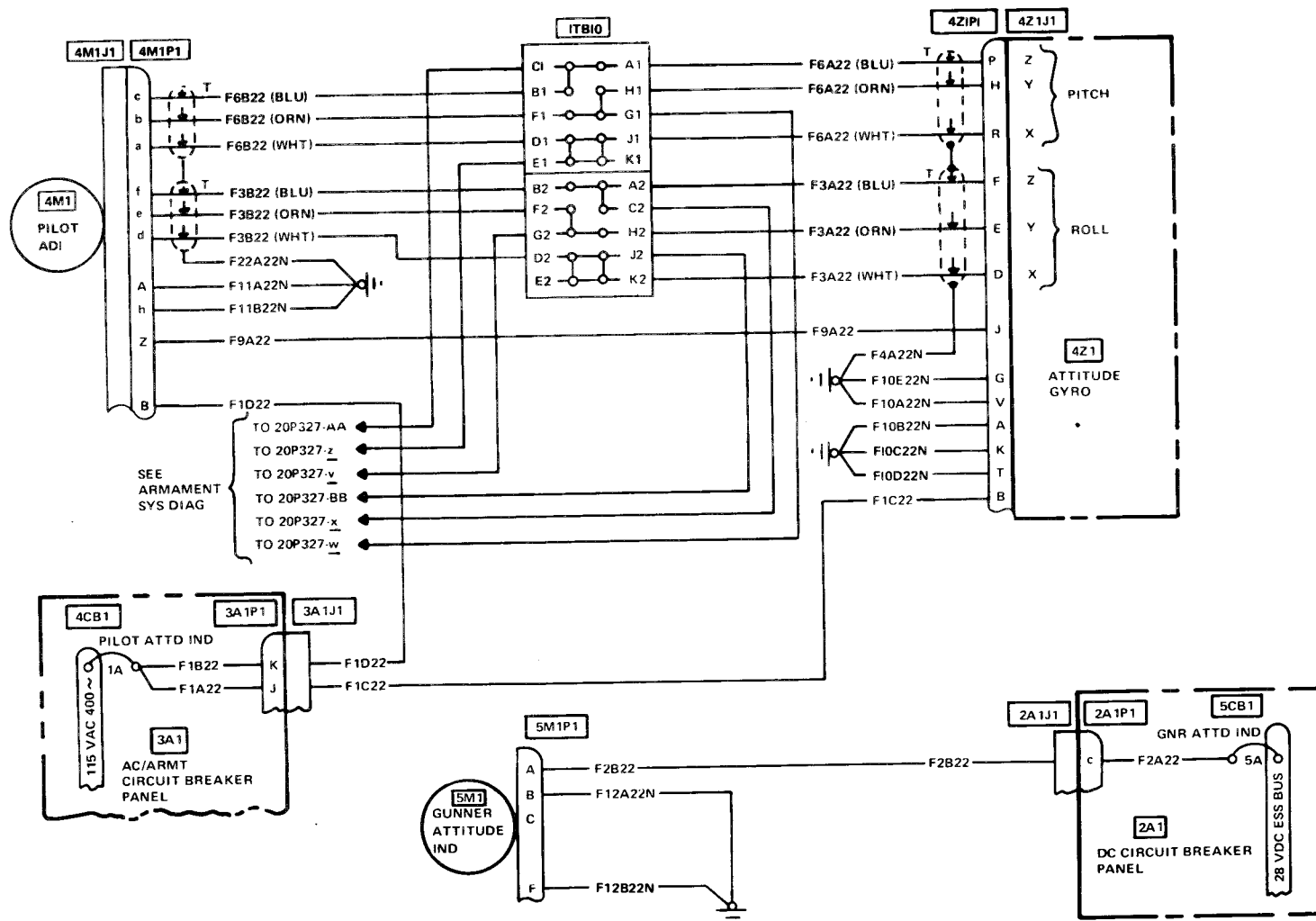
Figure F-32. **E**TOW Blower Cooling System Wiring Diagram



209475-427

Figure F-33. **E** Radio Blower Cooling System Wiring Diagram

Figure F-34. **E** Attitude Indicating System Wiring Diagram



209475-423

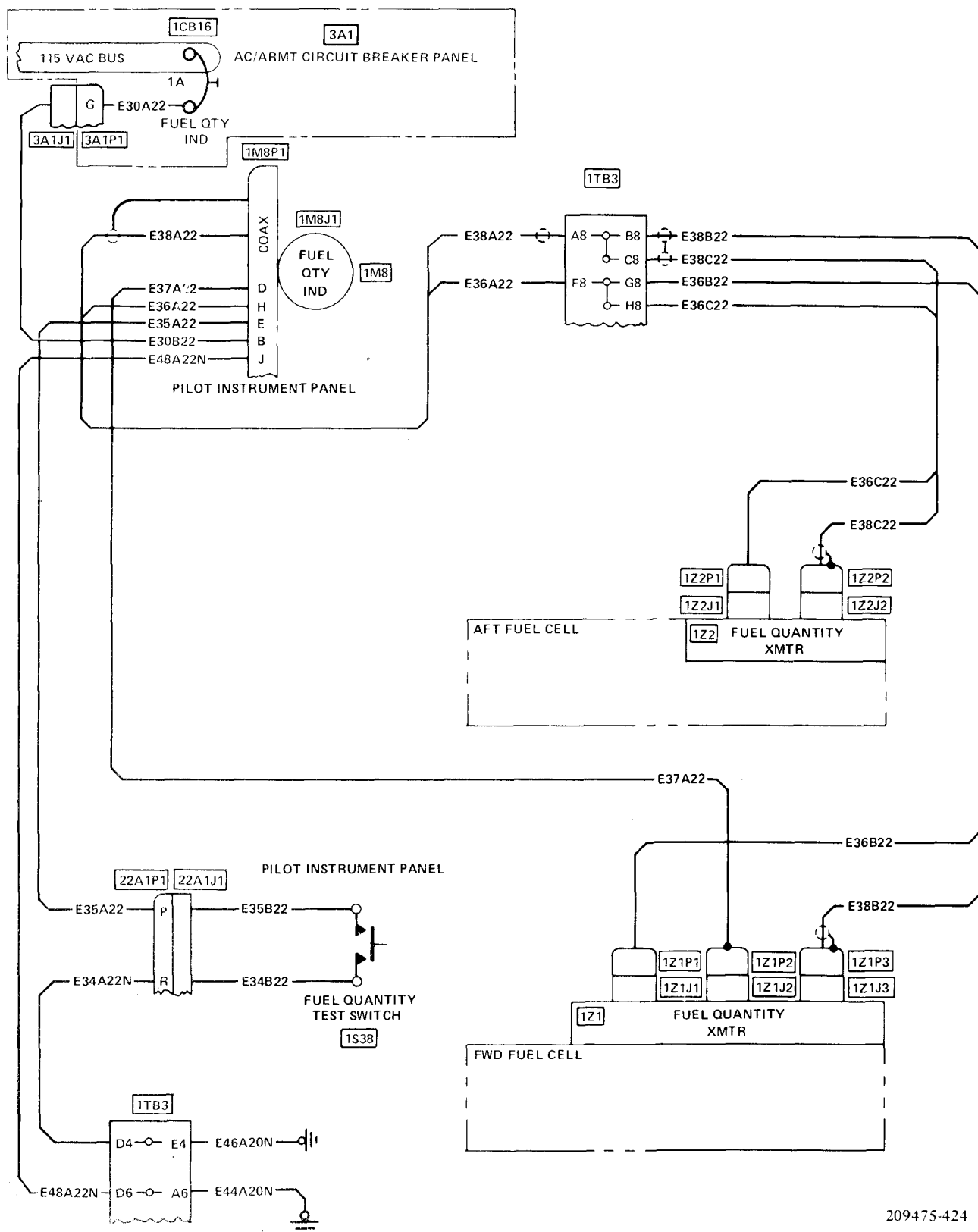


Figure F-35. **E** Fuel Quantity Indicating System Wiring Diagram

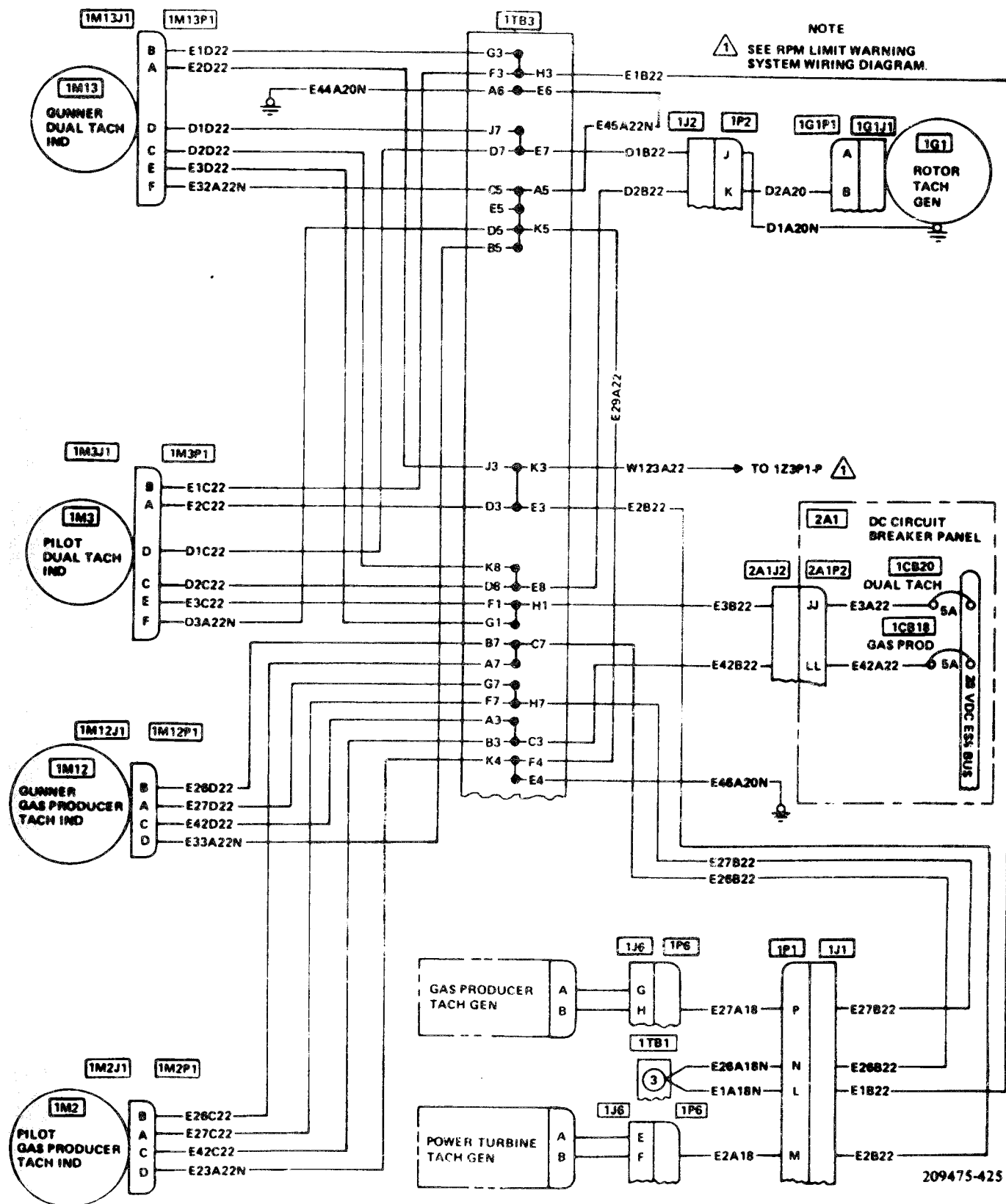


Figure F-36. Tachometer Indicating Systems Wiring Diagram

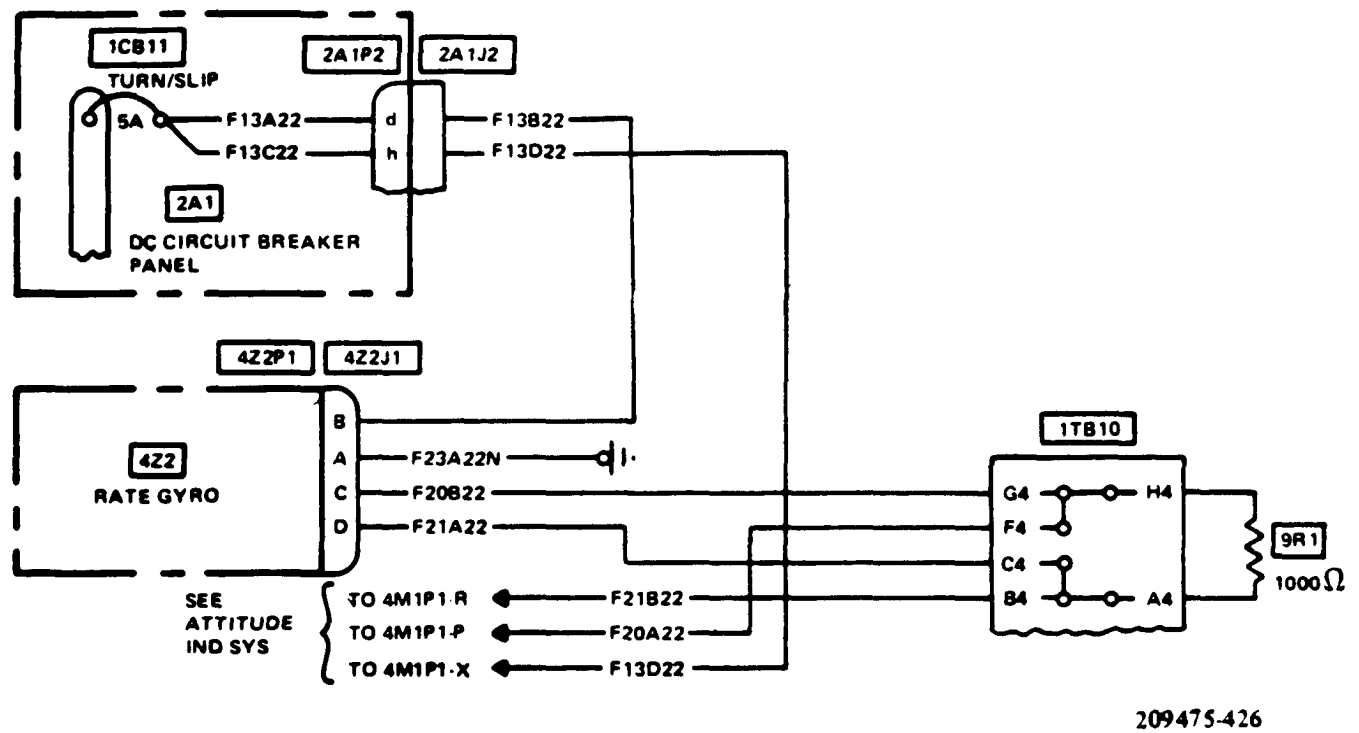
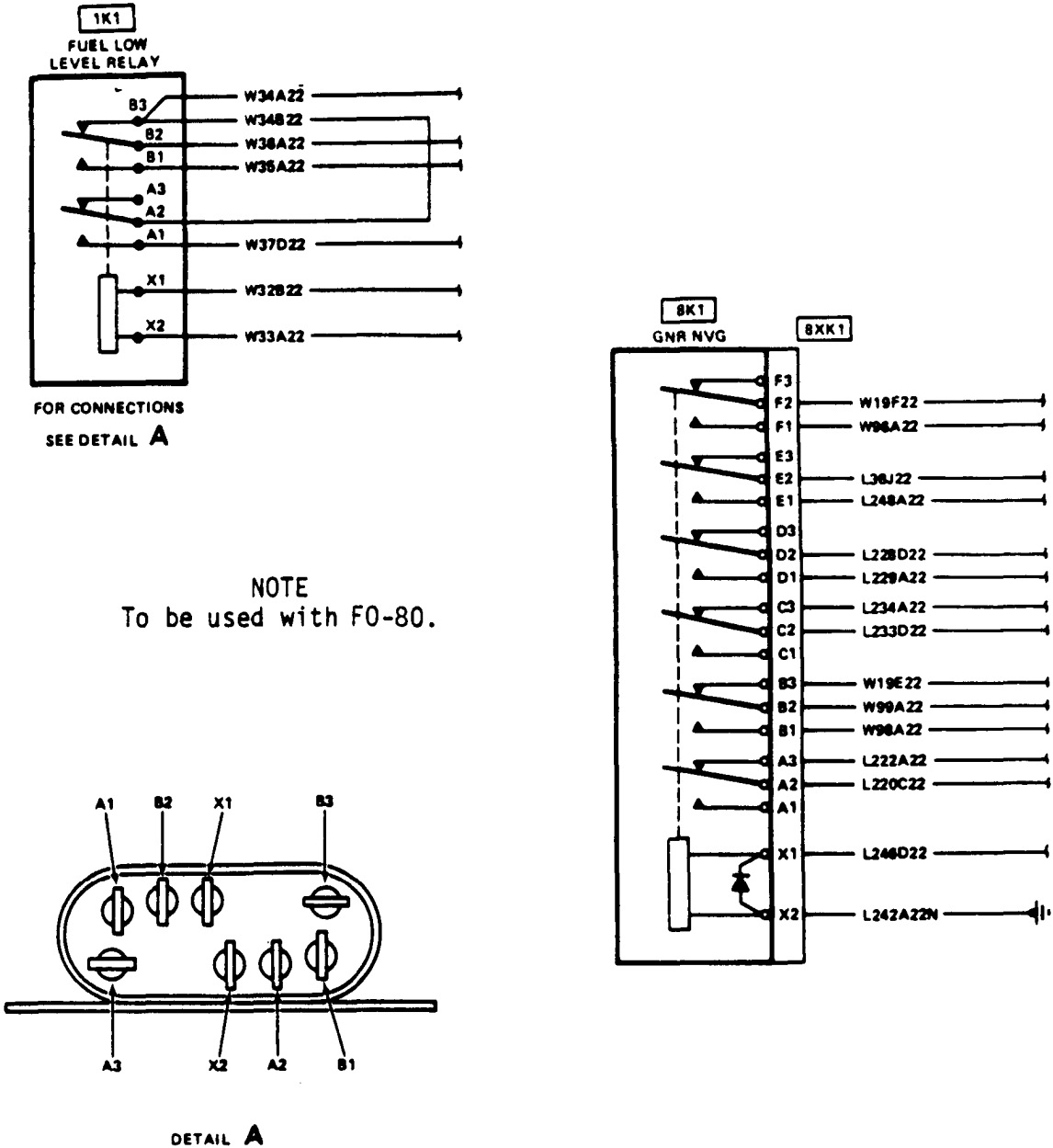
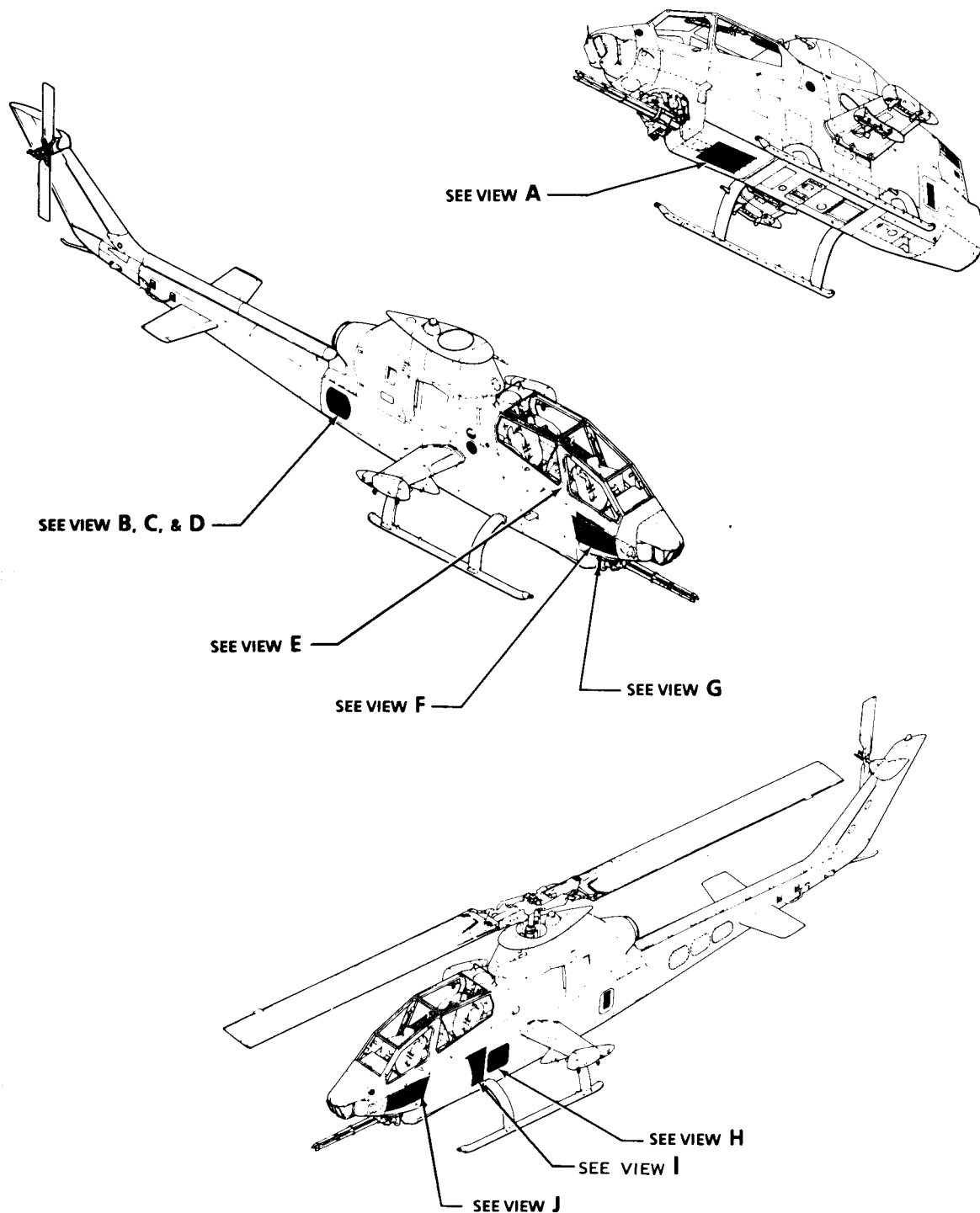


Figure F-37. **F** Turn and Slip Indicating System Wiring Diagram



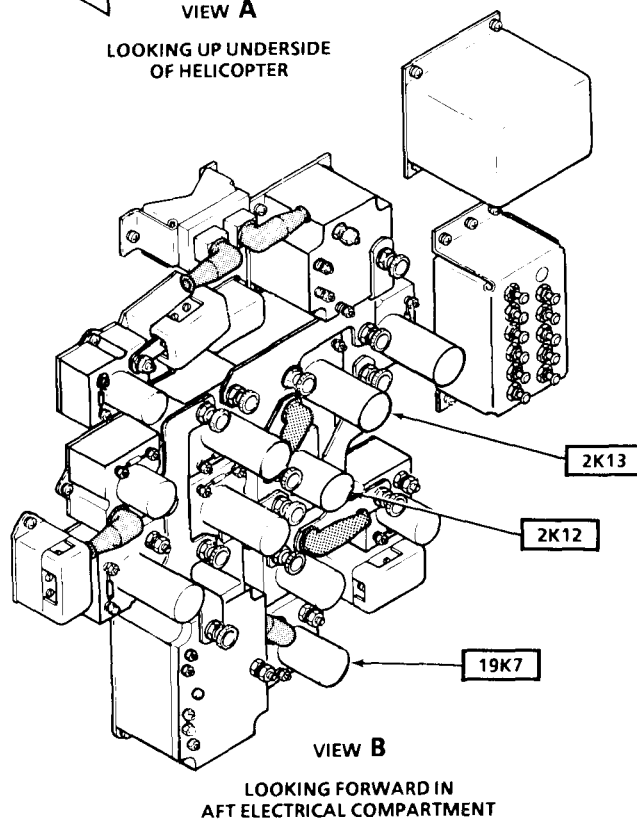
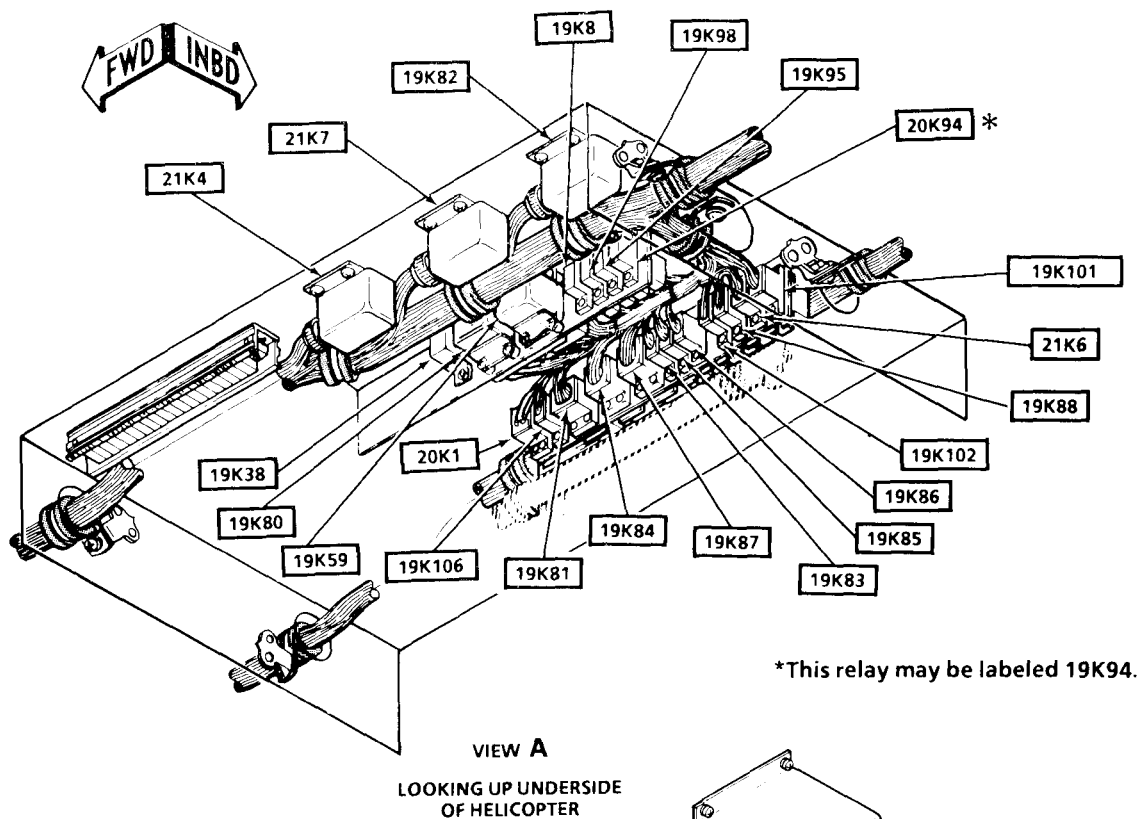
209475-451-12

Figure F-38. **F** Electrical Equipment Component Wiring Diagram



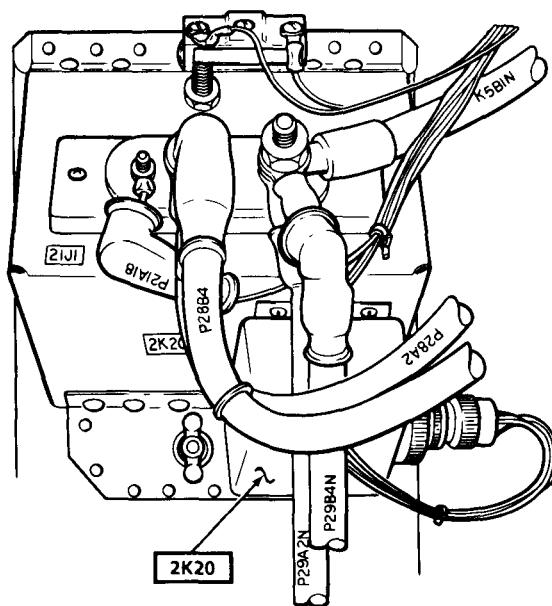
209075-644-1

Figure F-38.1 **E** Armament Relay Location (Sheet 1 of 5)

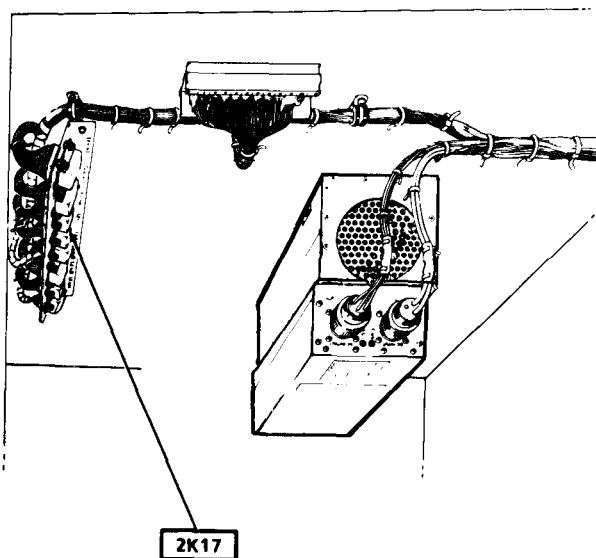


209075-644-2

Figure F-38.1 **E** Armament Relay Location (Sheet 2 of 5)



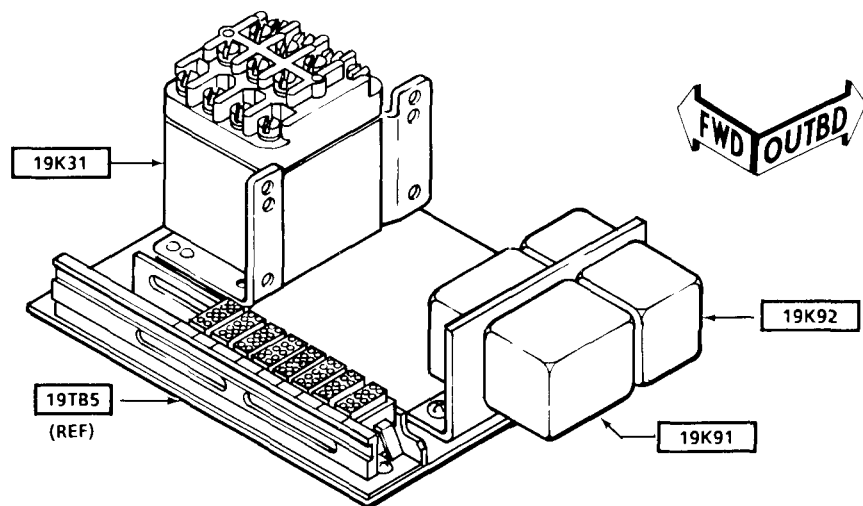
VIEW C
AFT ELECTRICAL COMPARTMENT



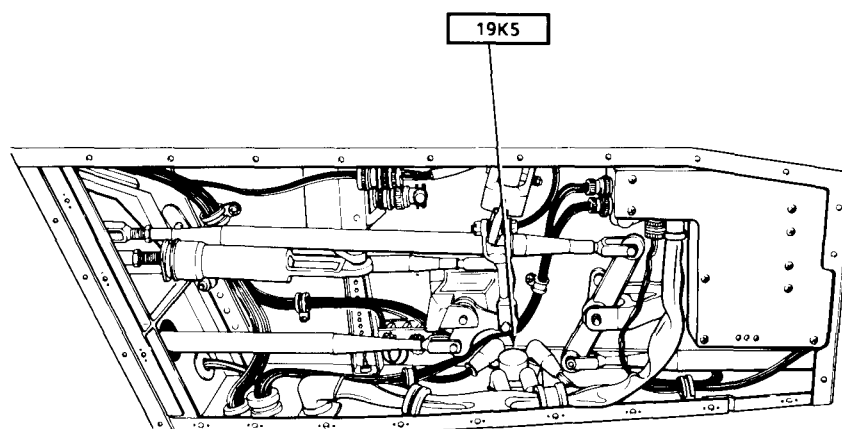
VIEW D
AFT ELECTRICAL COMPARTMENT

209075-644-3

Figure F-38.1 E Armament Relay Location (Sheet 3 of 5)



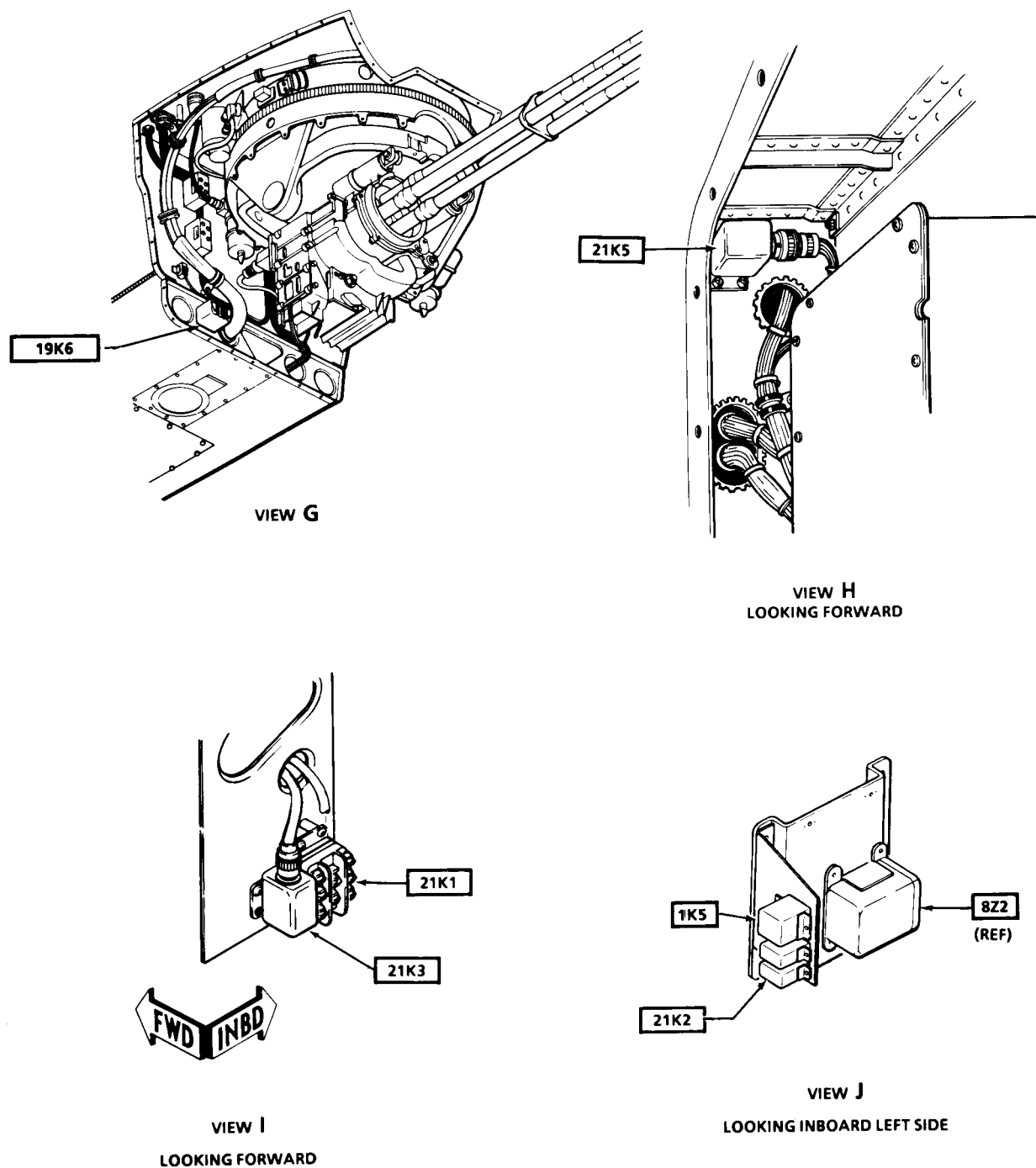
VIEW E
LOOKING DOWN RIGHT SIDE
IN PILOT COCKPIT
BELOW INSTRUMENT PANEL



VIEW F
LOOKING INBOARD RIGHT SIDE

209075-644-4

Figure F-38.1 **E** Armament Relay Location (Sheet 4 of 5)



209075-644-5

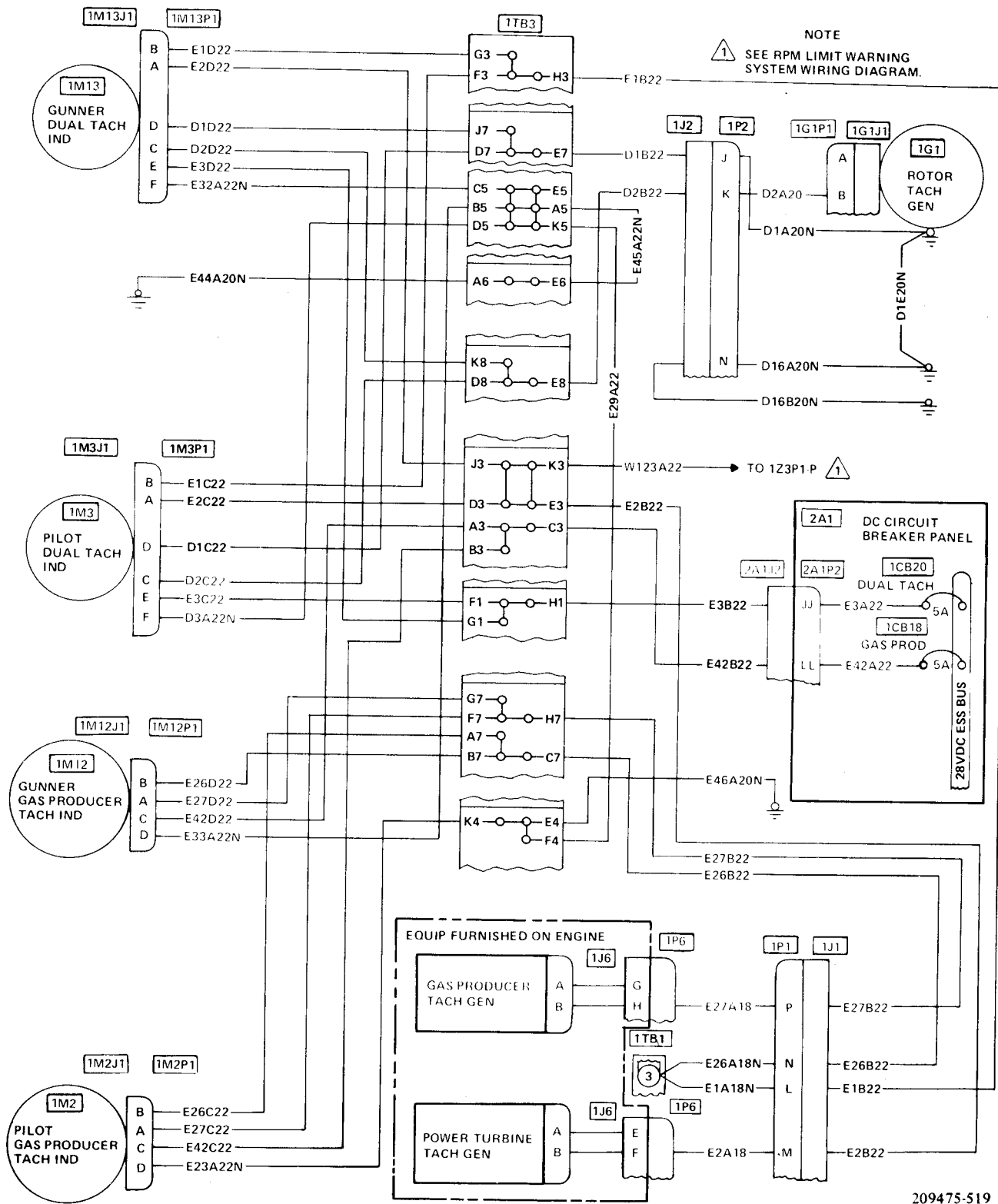
Figure F-38.1 **E** Armament Relay Location (Sheet 5 of 5)

Data intentionally omitted

Figure F-39.  AC Electrical Load Chart

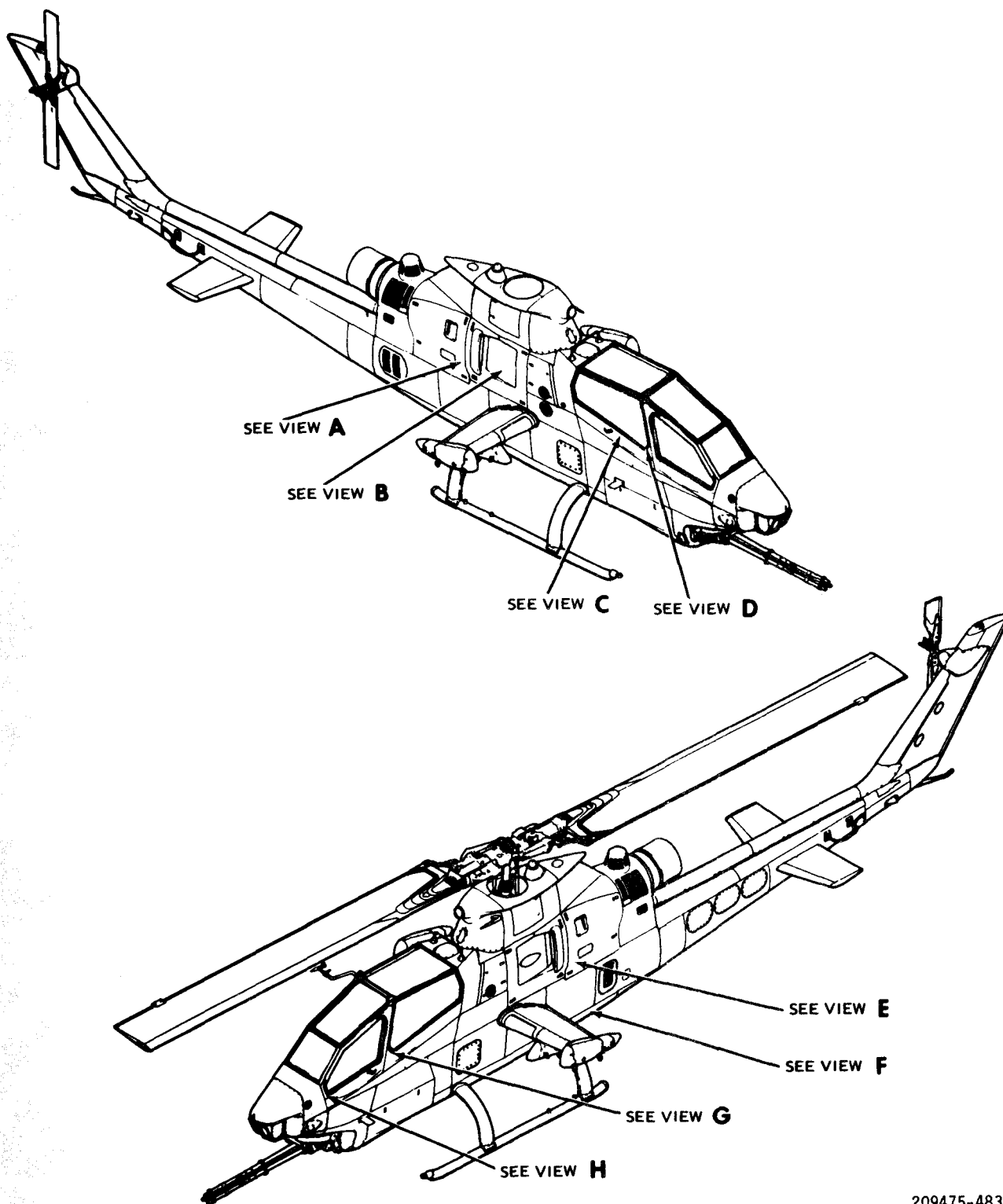
Data intentionally omitted

Figure F-40.  DC Electrical Load Chart



209475-519

Figure F-41. **M** Tachometer Indicating Systems (Sheet 1 of 10)



209475-483-1

Figure F-41 **M** Tachometer Indicating Systems (Sheet 2 of 10)

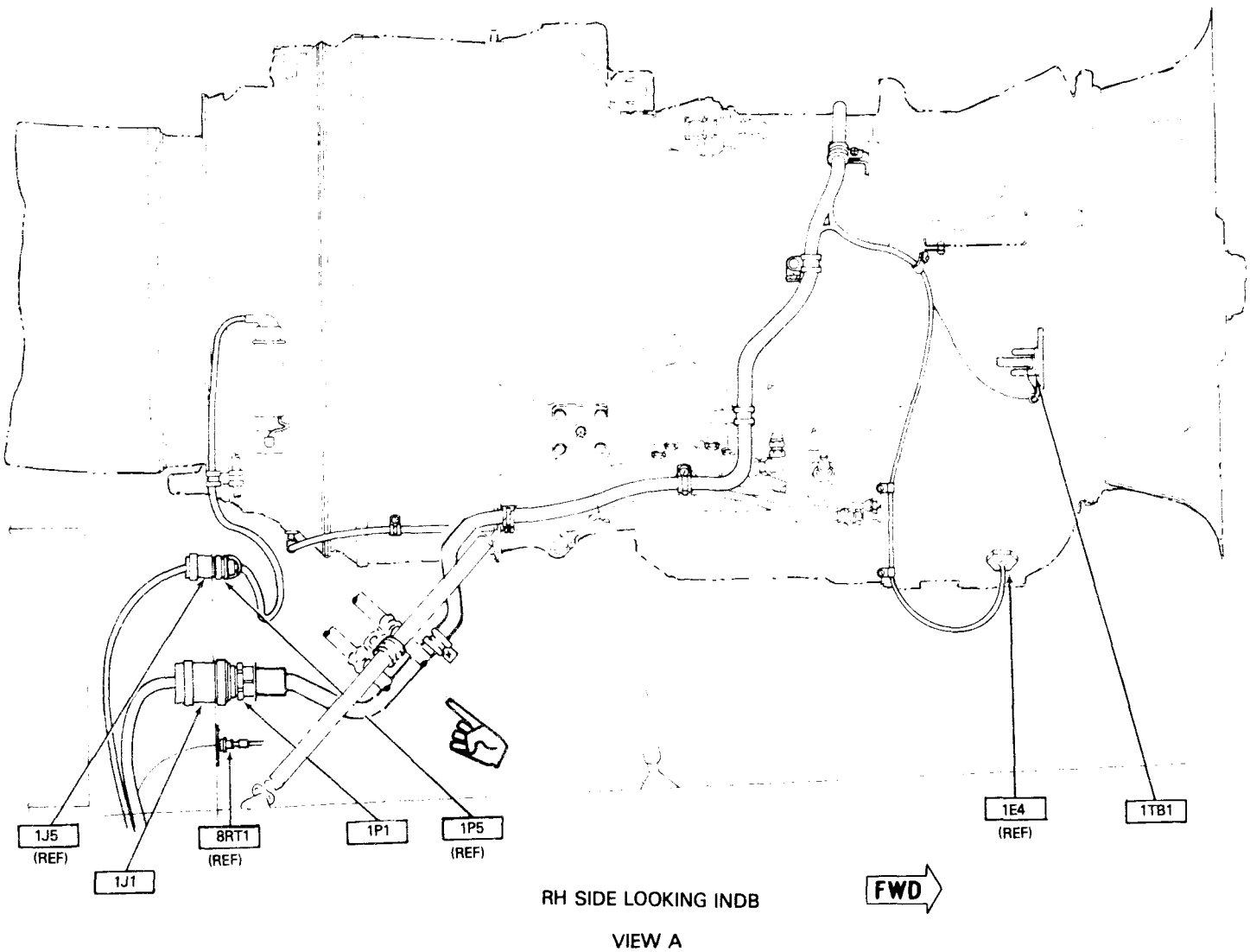
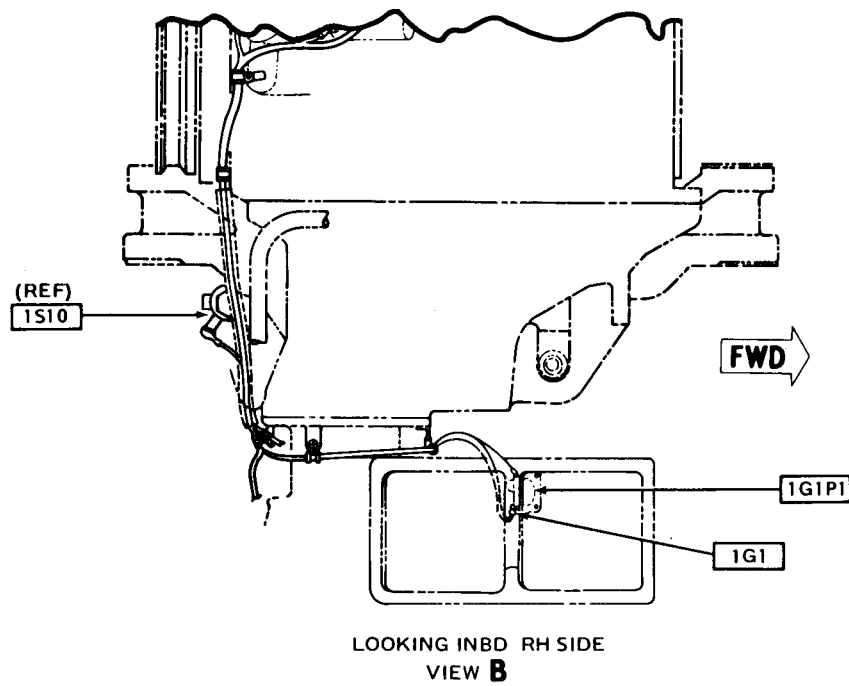
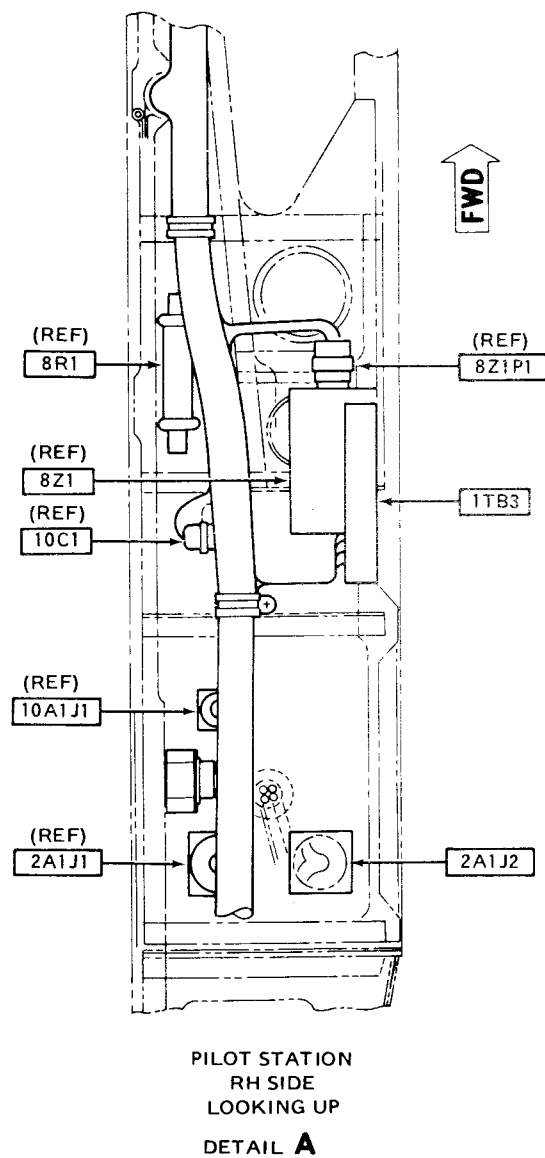


Figure F-41. **M** Tachometer Indicating Systems (Sheet 3 of 10)



209475-483-3

Figure F-41. **M** Tachometer Indicating Systems (Sheet 4 of 10)



209475-483-4

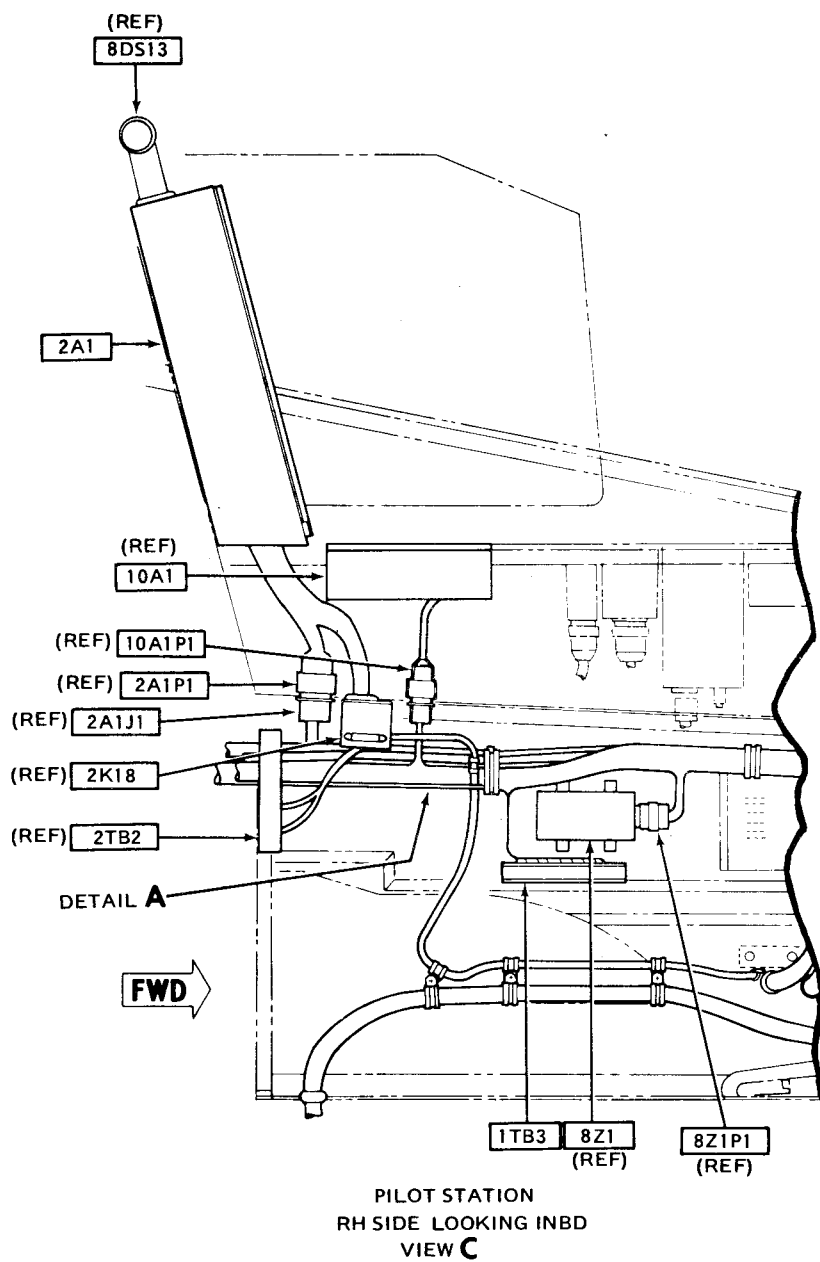
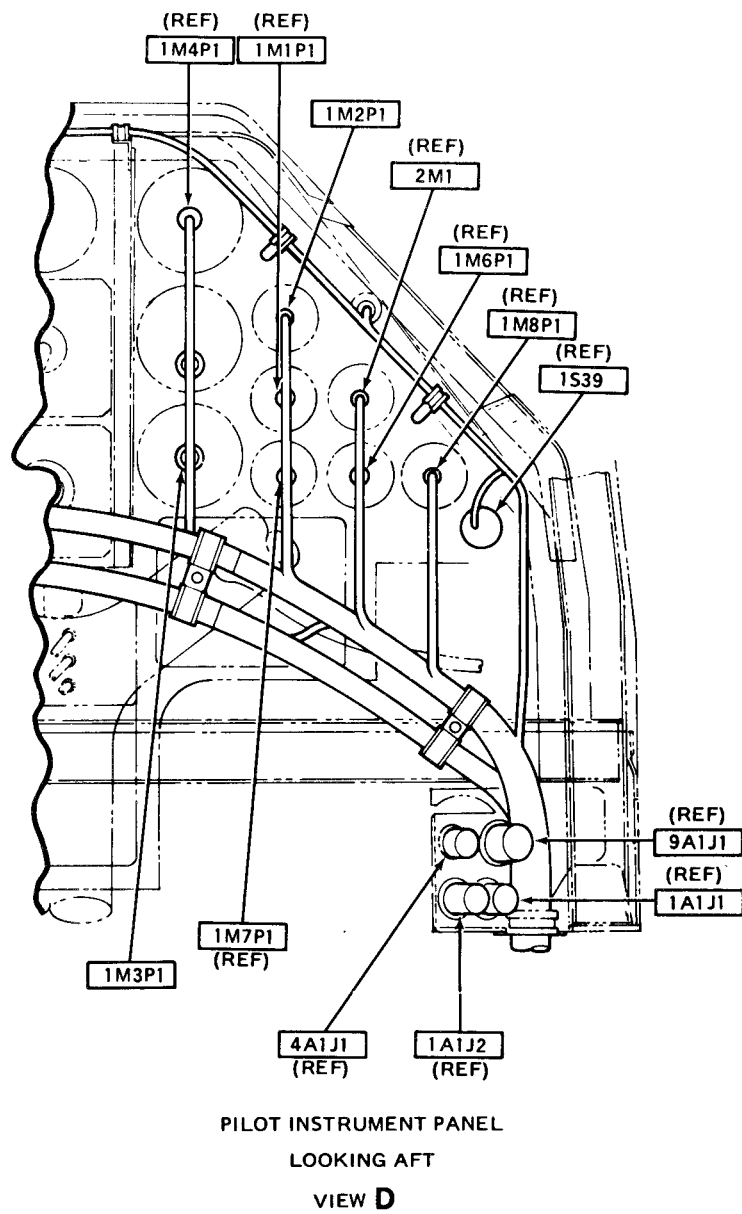
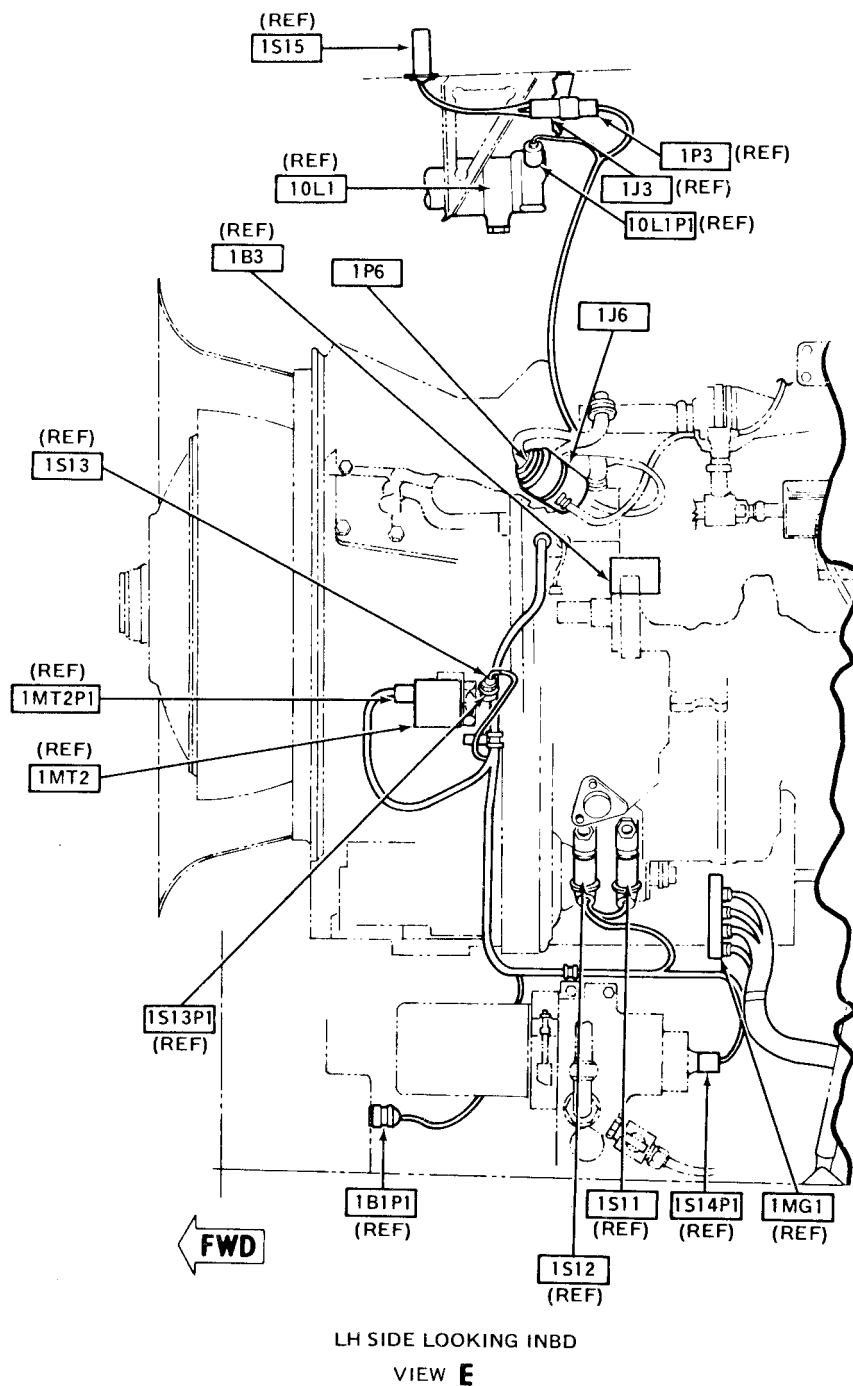


Figure F-41. **M** Tachometer Indicating Systems (Sheet 5 of 10)



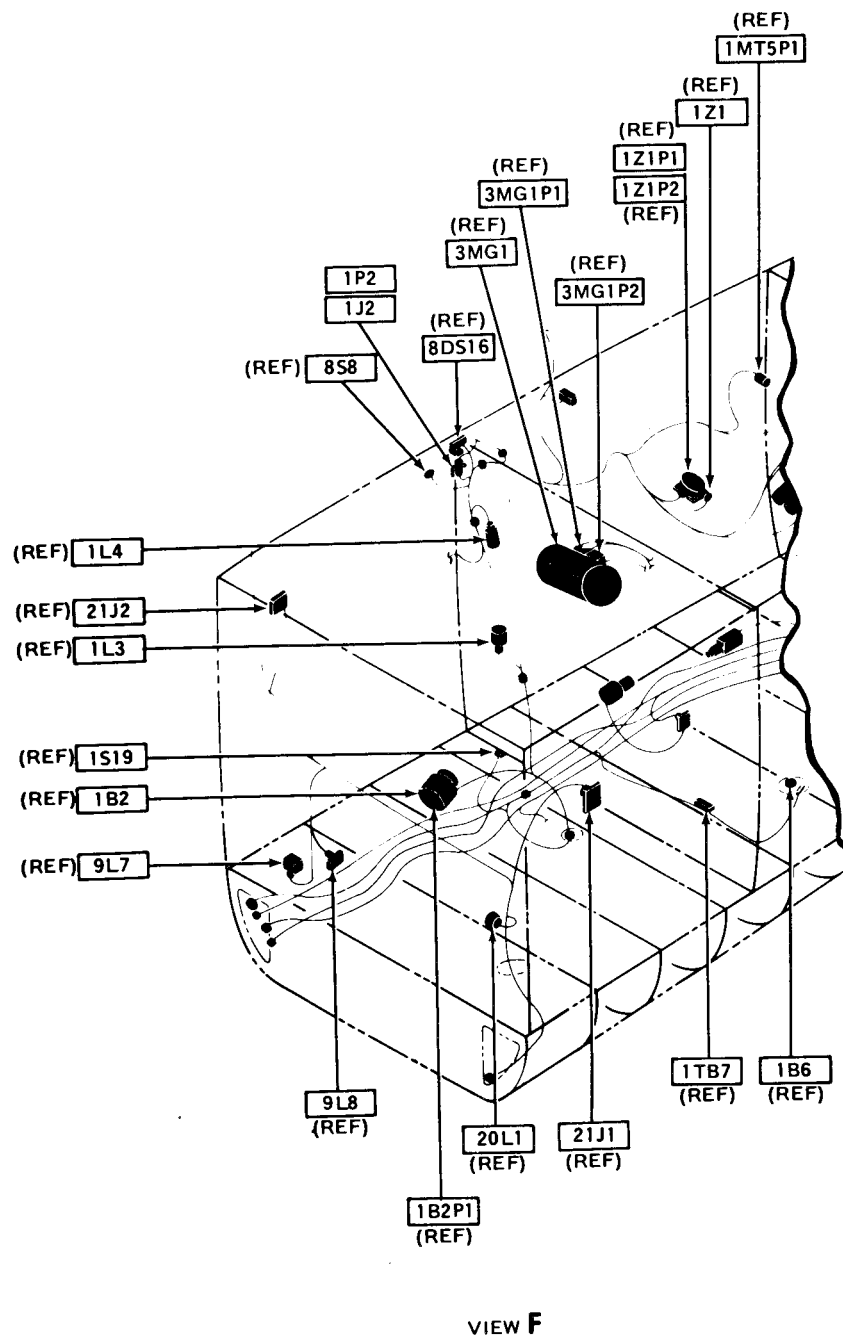
209475-483-5

Figure F-41. **M** Tachometer Indicating Systems (Sheet 6 of 10)



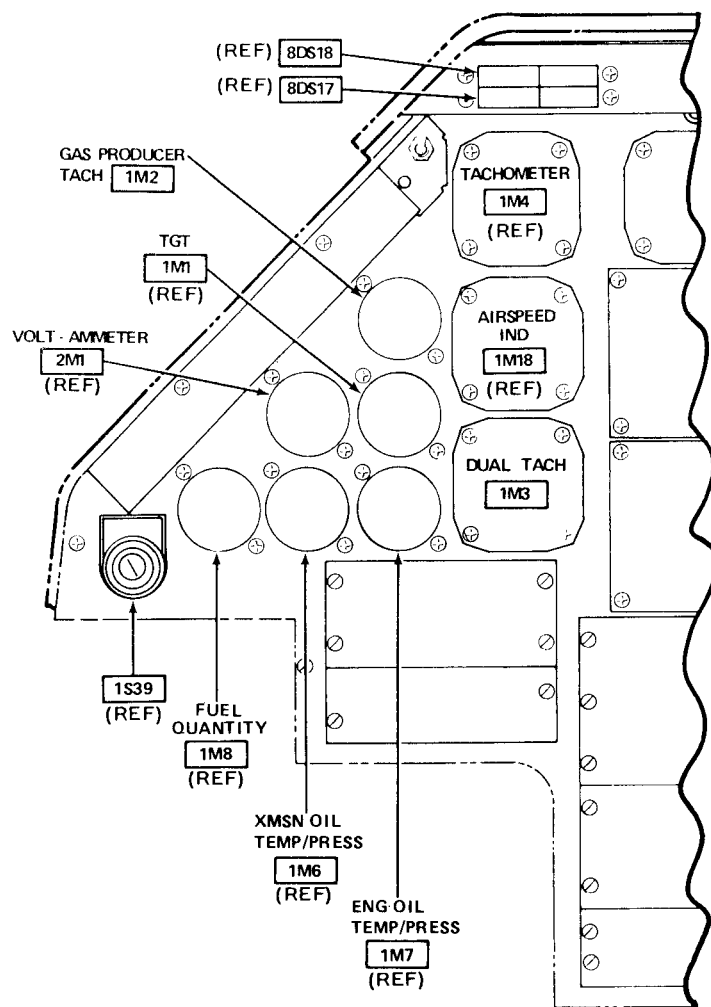
209475-483-6

Figure F-41. **M** Tachometer Indicating Systems (Sheet 7 of 10)



209475-483-7

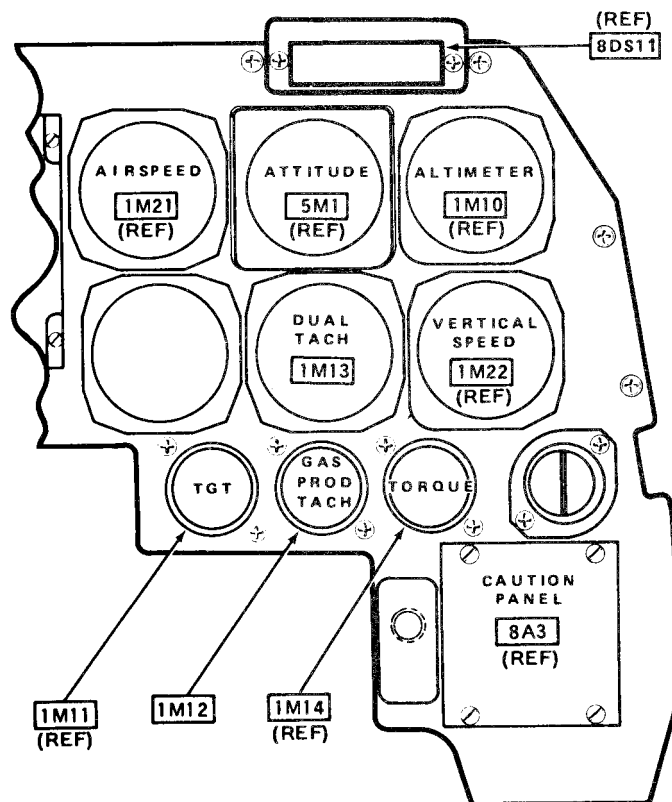
Figure F-41. M Tachometer Indicating Systems (Sheet 8 of 10)



VIEW G

209475-483-8

Figure F-41. **M** Tachometer Indicating Systems (Sheet 9 of 10)

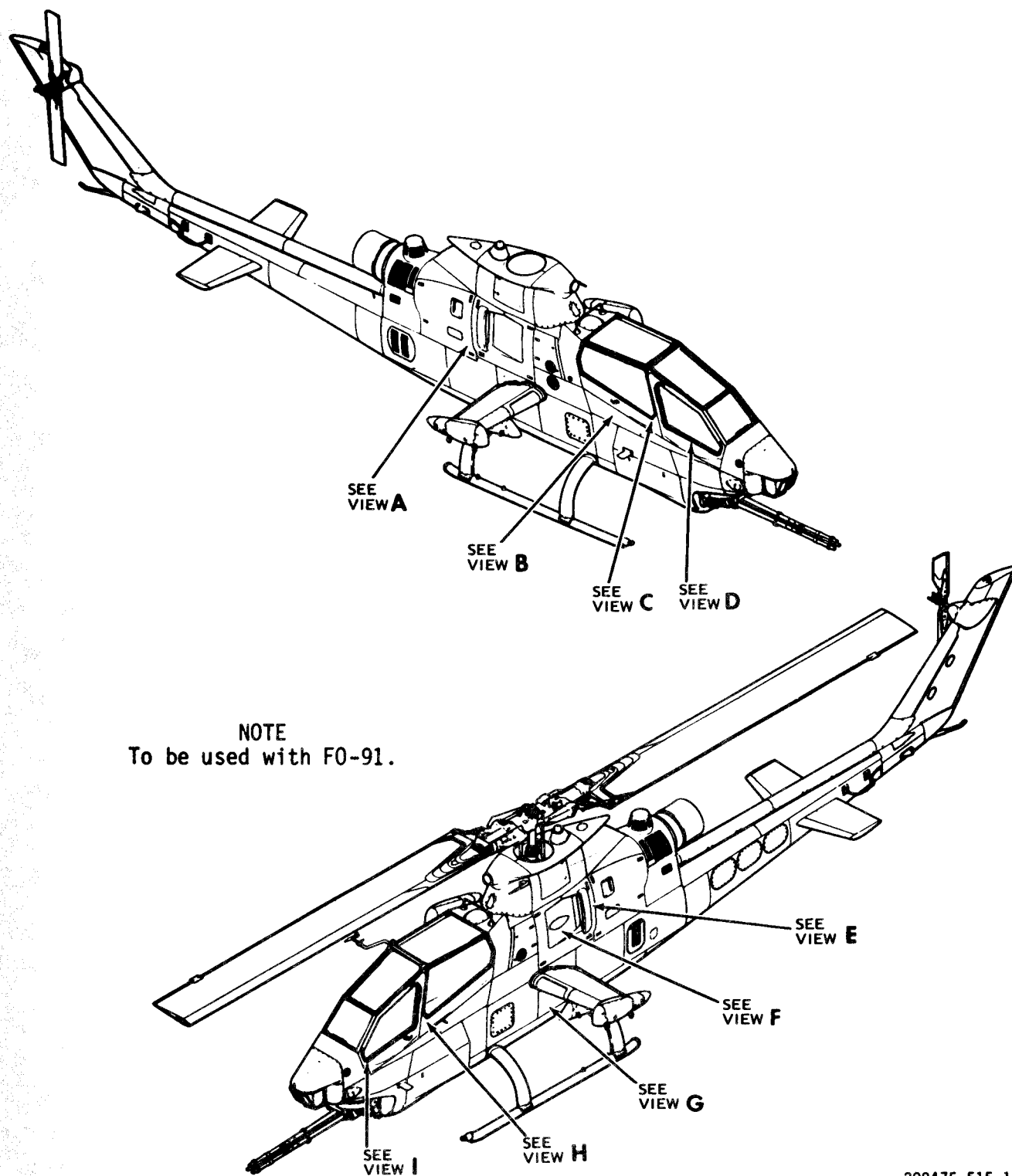


VIEW H

209475-483-9

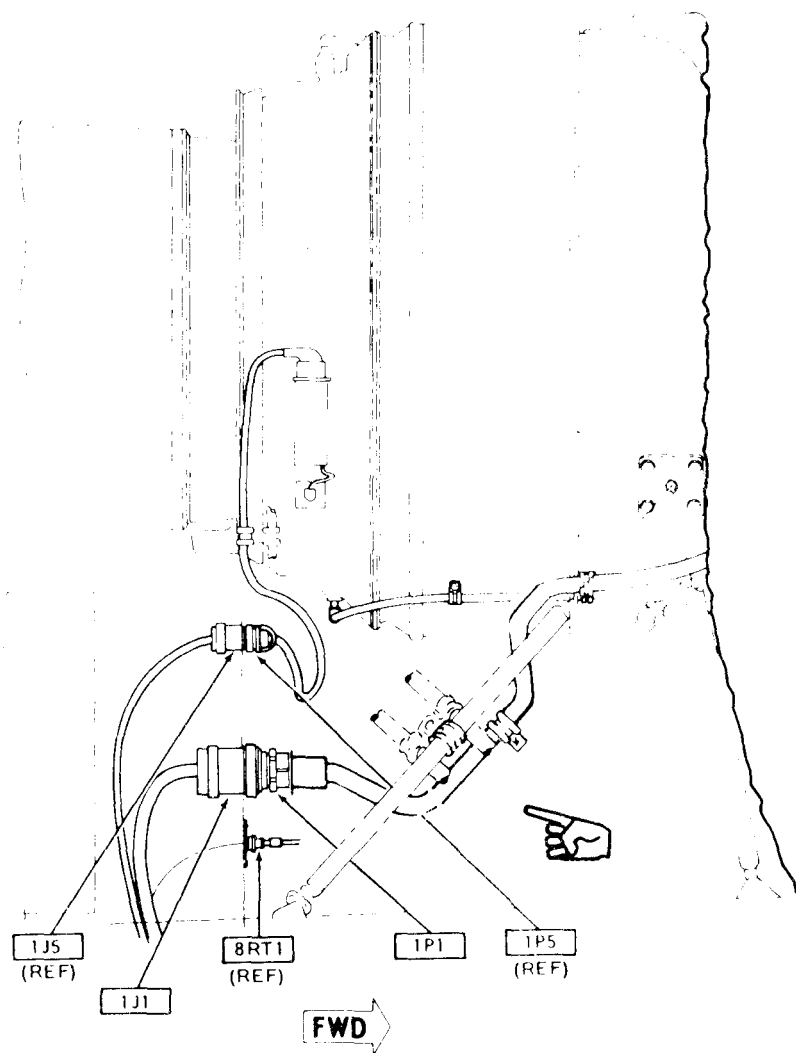
Figure F-41. **M** Tachometer Indicating Systems (Sheet 10 of 10)

F-119/(F-120 blank)



209475-515-1

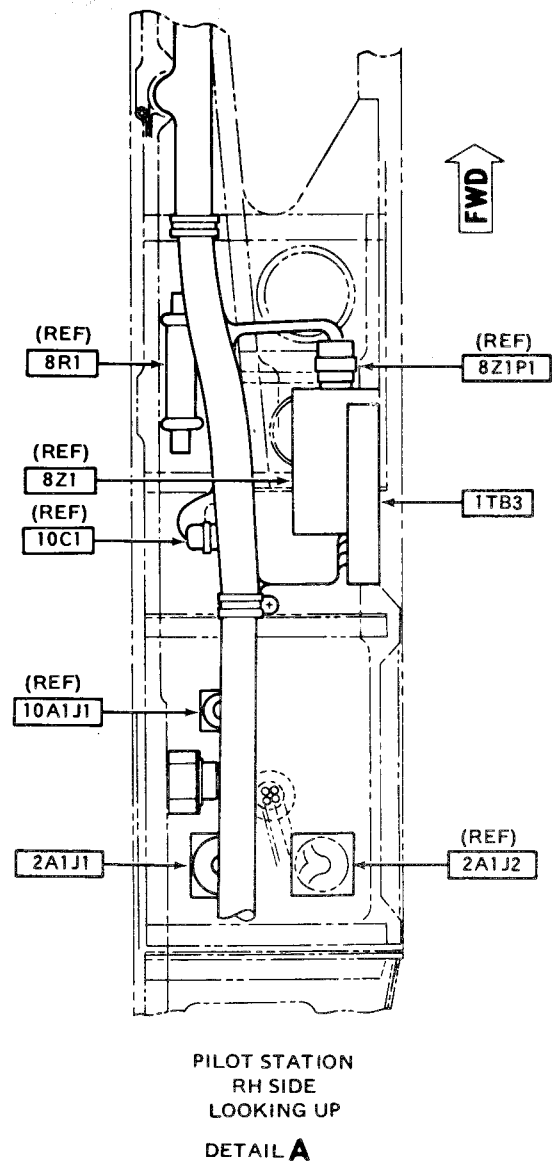
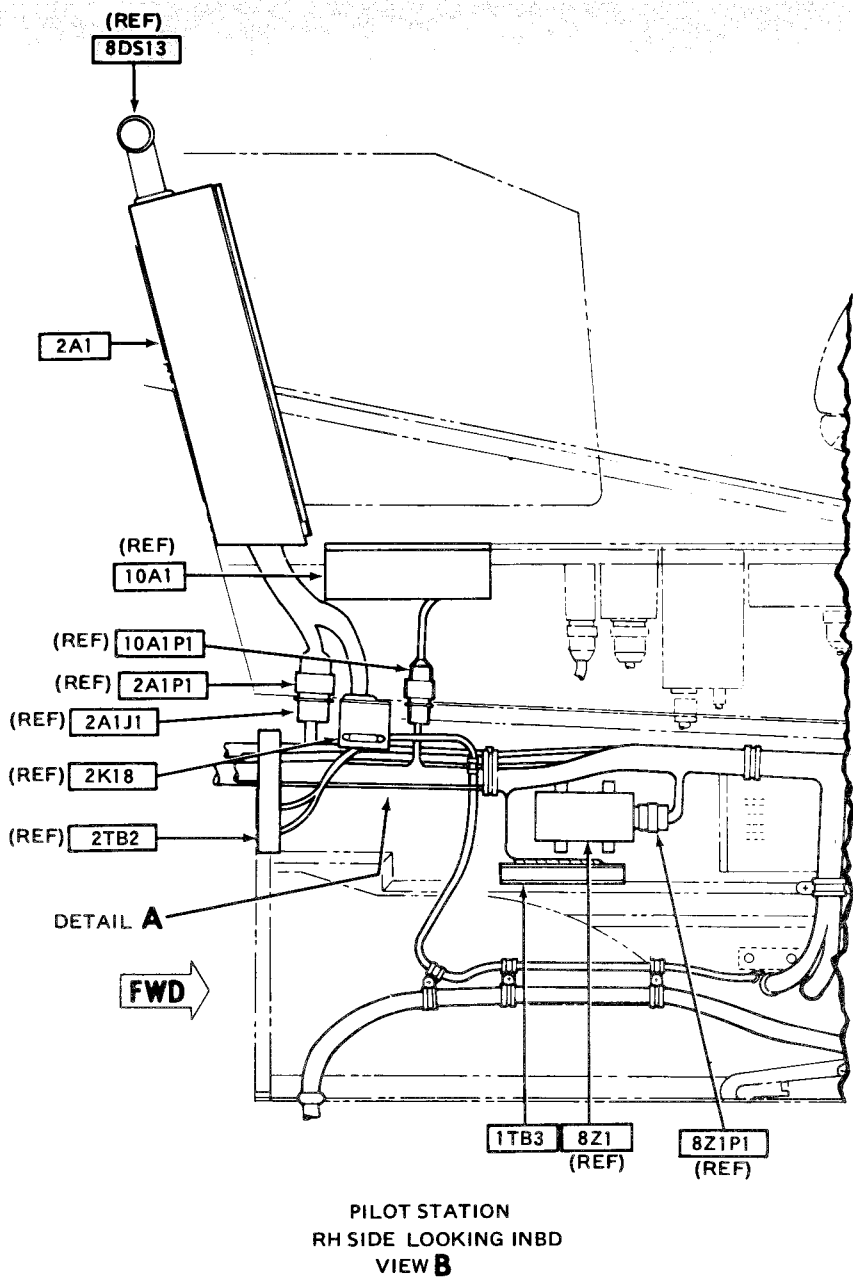
Figure F-42. **M** Pressure Indicating System (Sheet 1 of 10)



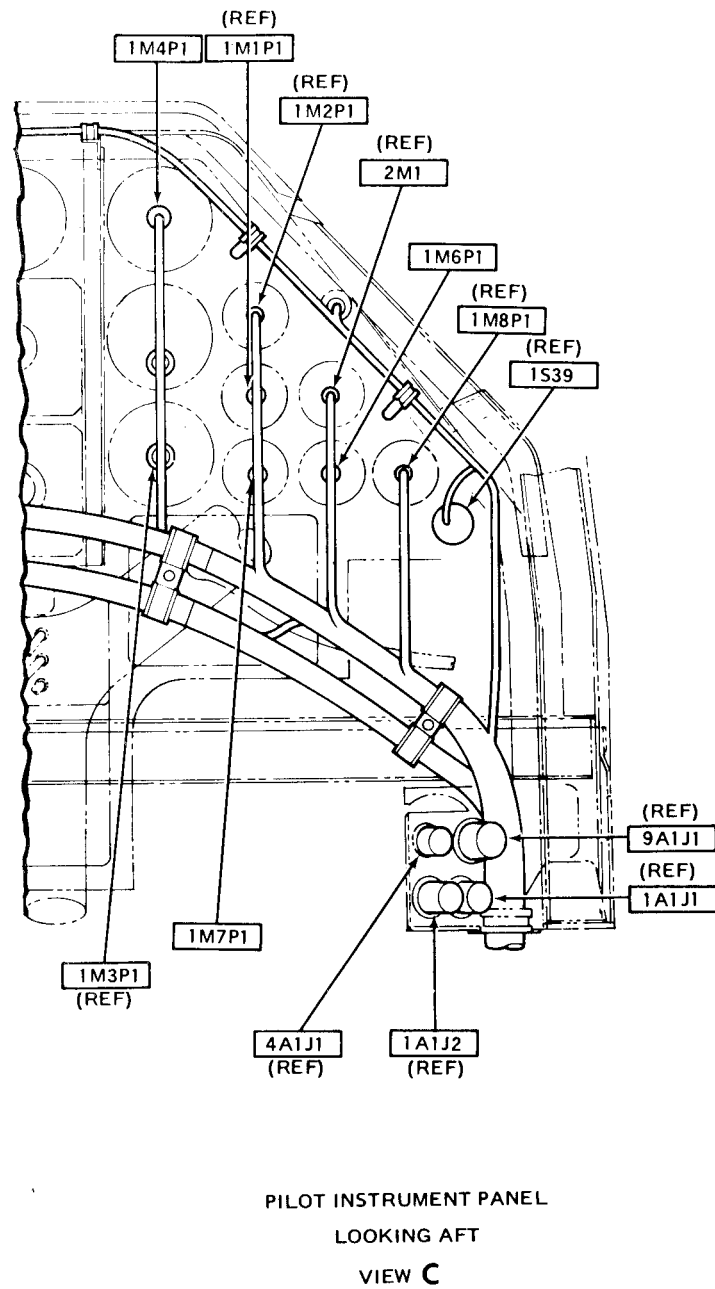
FH SIDE LOOKING INBD
VIEW A

Figure F-42. **M** Pressure Indicating System (Sheet 2 of 10)

Figure F-42. **M** Pressure Indicating System (Sheet 3 of 10)

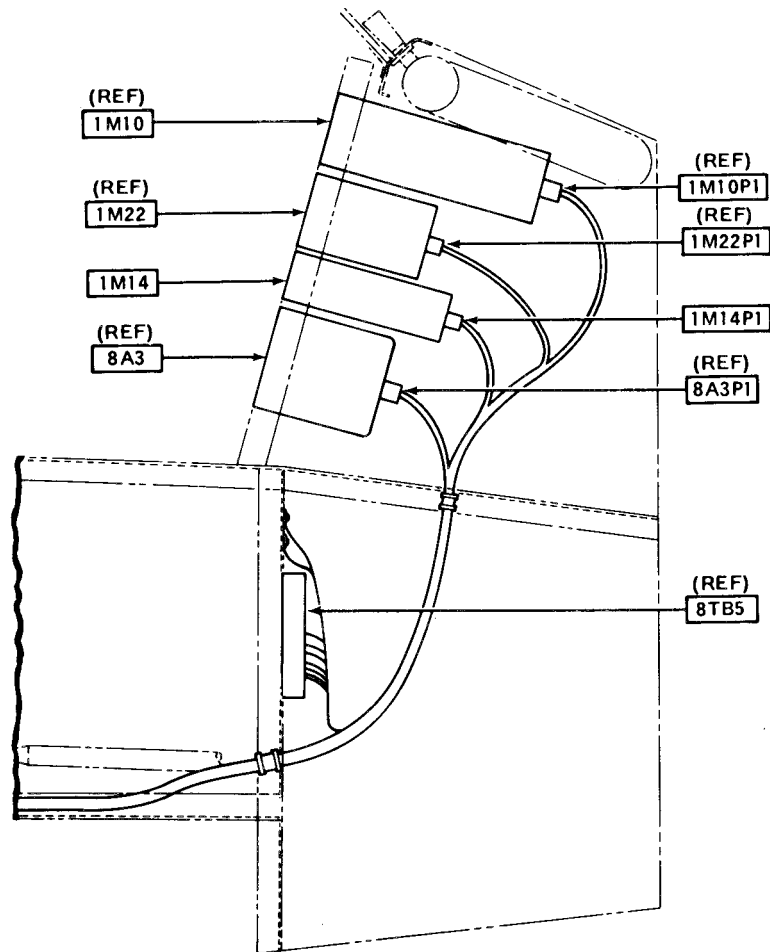


209475-515-3



209475-515-4

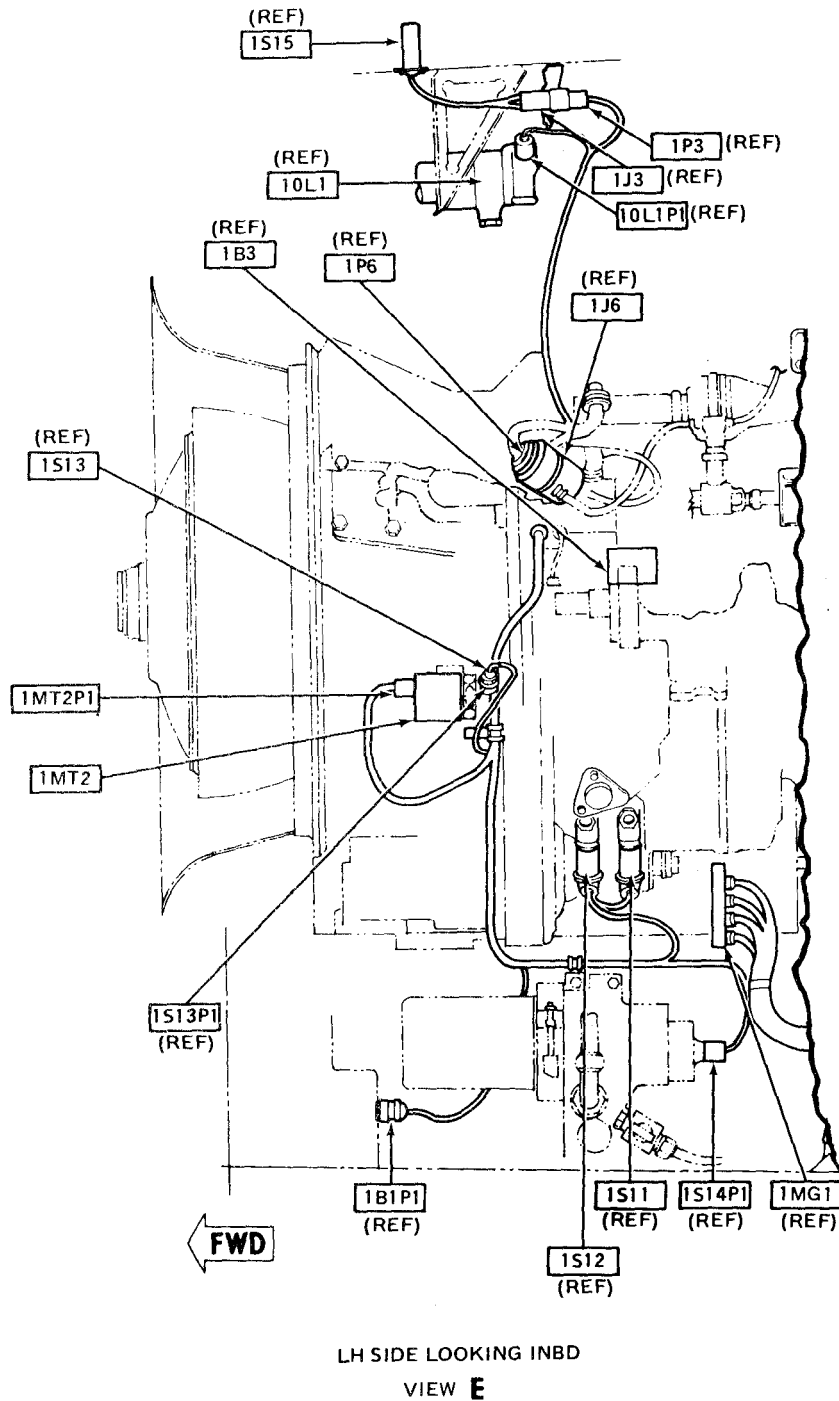
Figure F-42. **M** Pressure Indicating System (Sheet 4 of 10)



GUNNER STATION
LOOKING INBD RH SIDE
VIEW D

209475-515-5

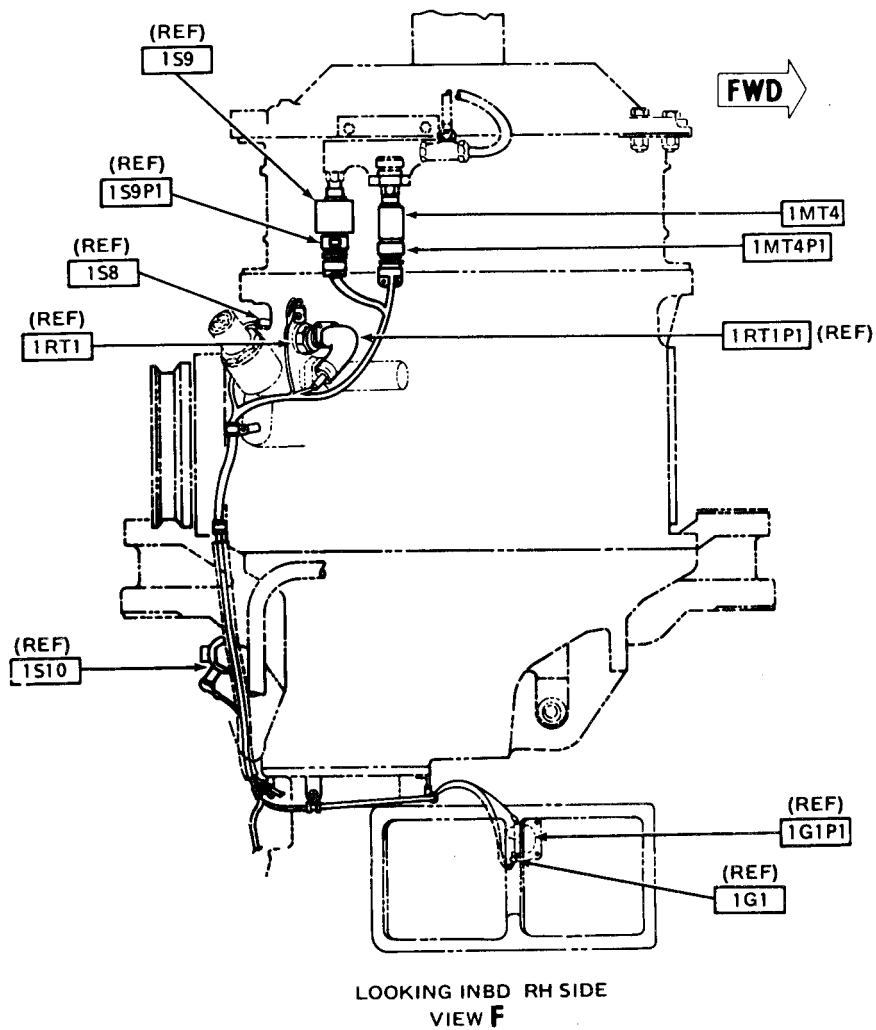
Figure F-42. **M** Pressure Indicating System (Sheet 5 of 10)



209475-515-6

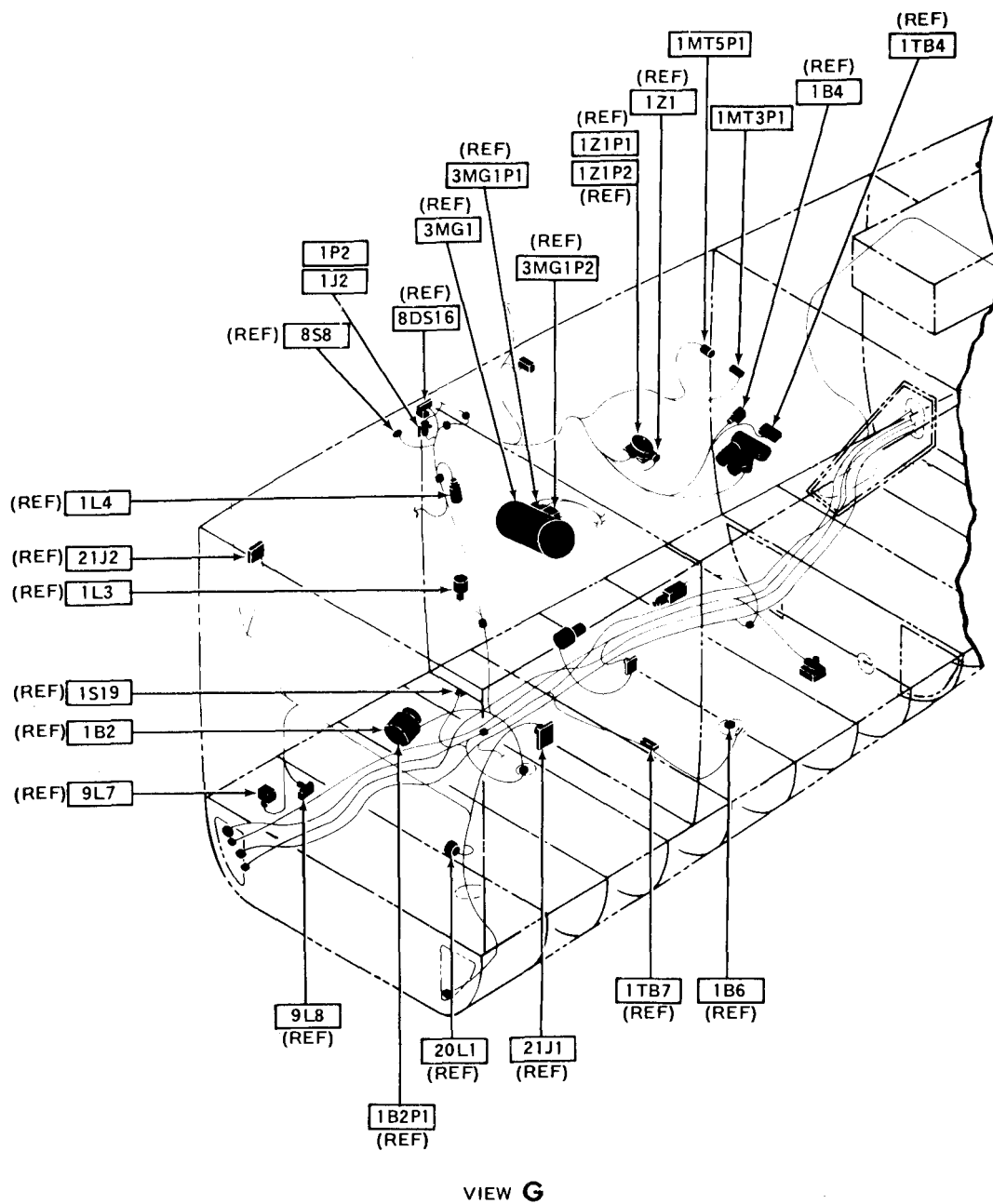
Figure F-42. Pressure Indicating System (Sheet 6 of 10)

M



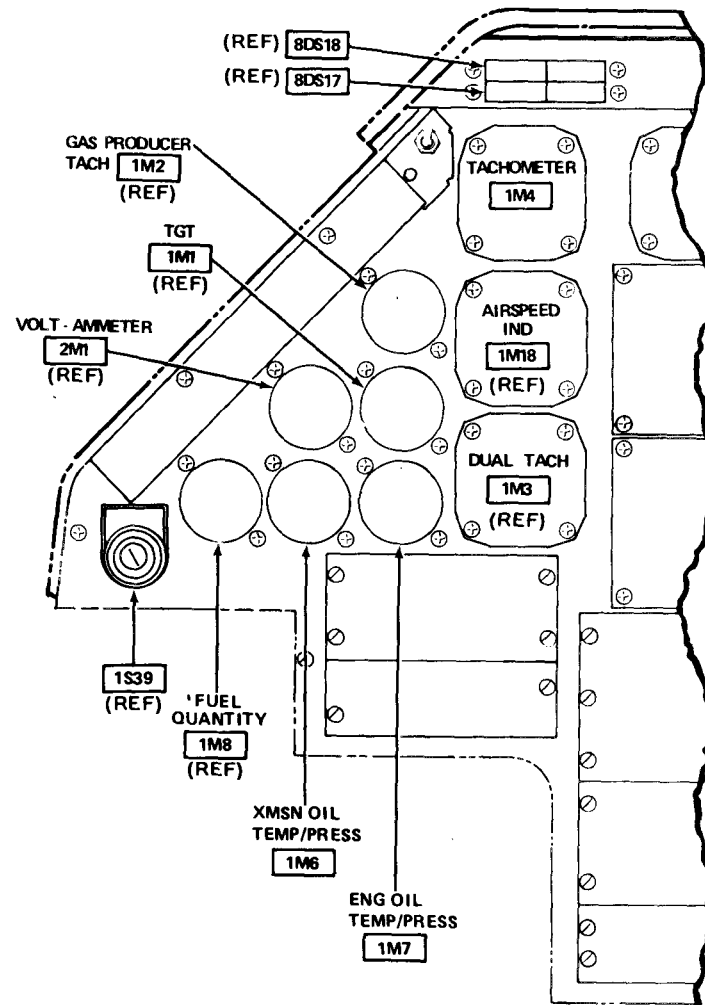
209475-515-7

Figure F-42. **M** Pressure Indicating System (Sheet 7 of 10)



209475-515-8

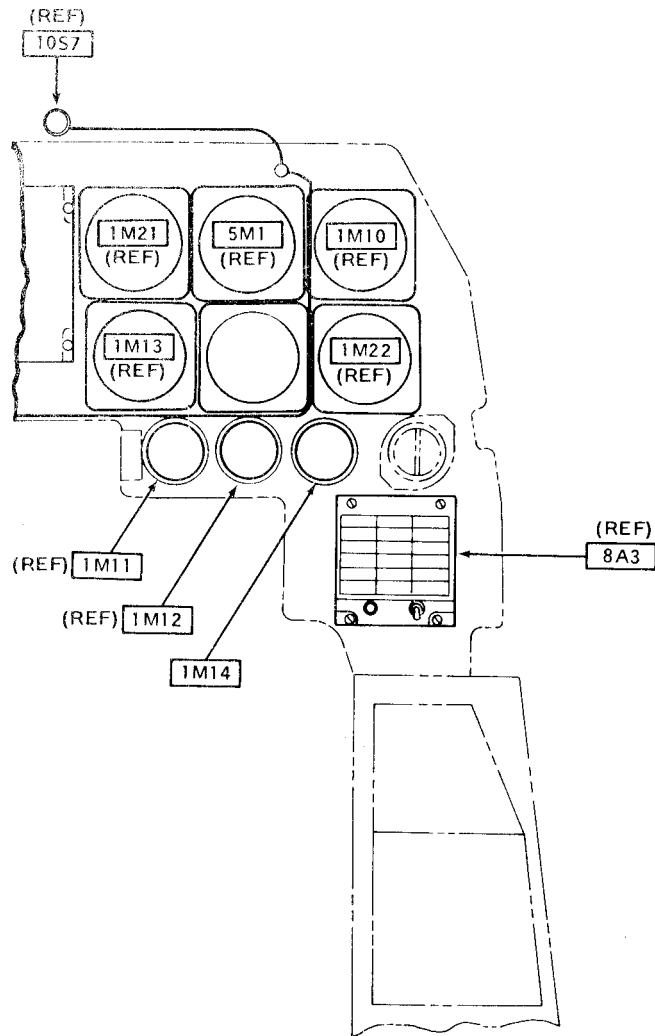
Figure F-42. **M** Pressure Indicating System (Sheet 8 of 10)



VIEW H

209475-515-9

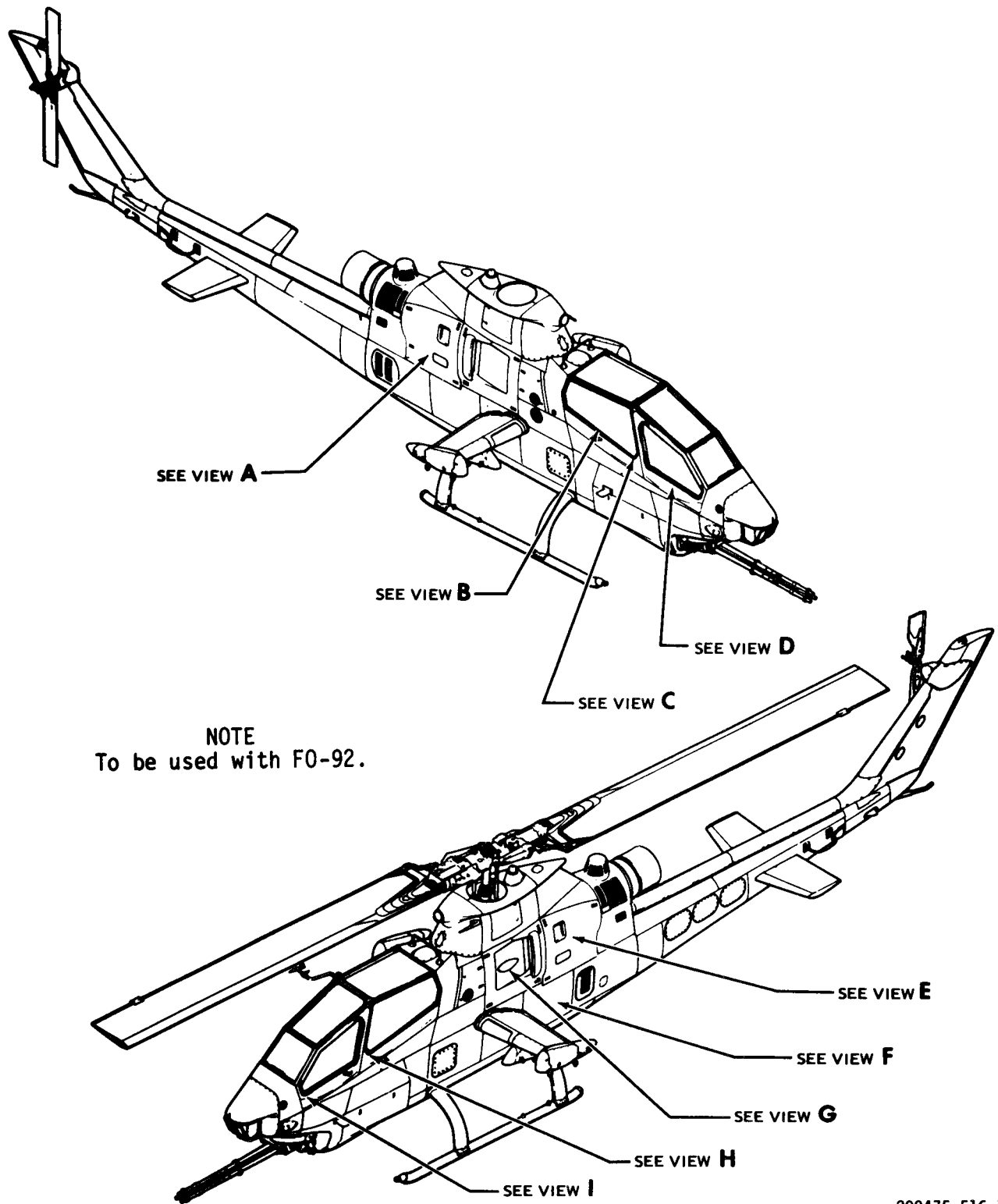
Figure F-42. **M** Pressure Indicating System (Sheet 9 of 10)



GUNNER STATION
VIEW I

209475-515-10

Figure F-42. **M** Pressure Indicating System (Sheet 10 of 10)



209475-516-1

Figure F-43. **M** Temperature Indicating Systems (Sheet 1 of 10)

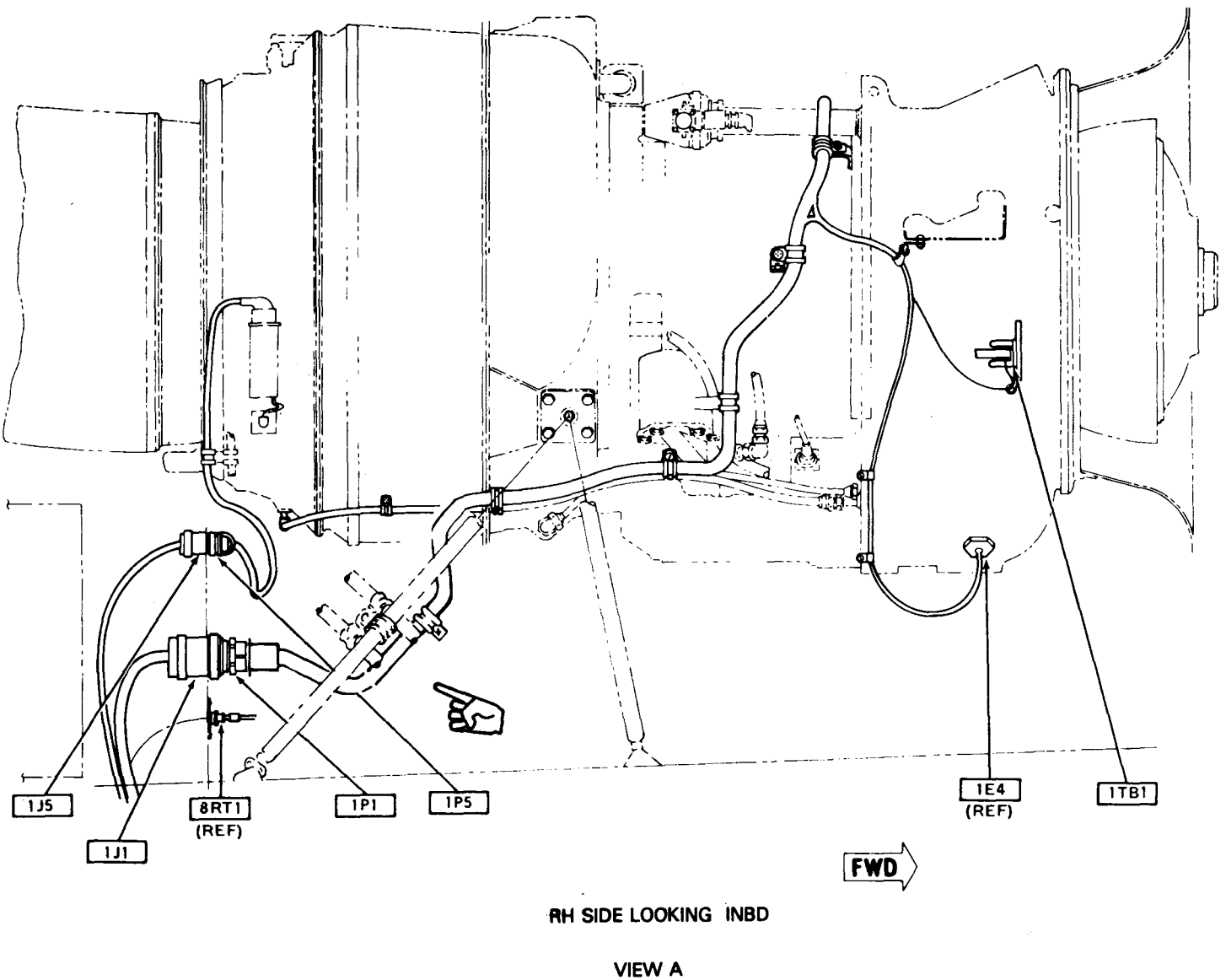
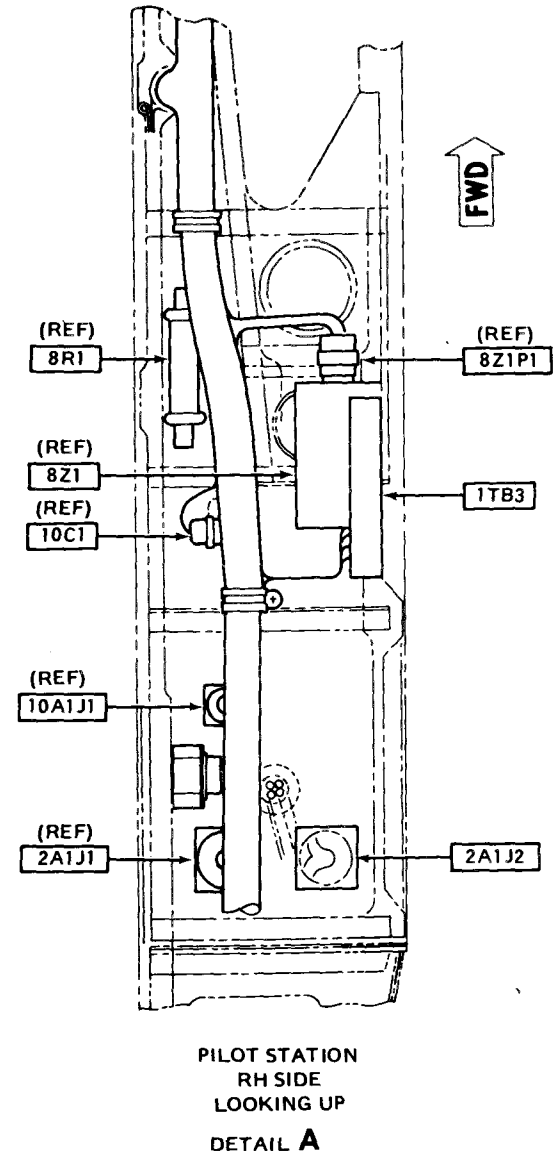
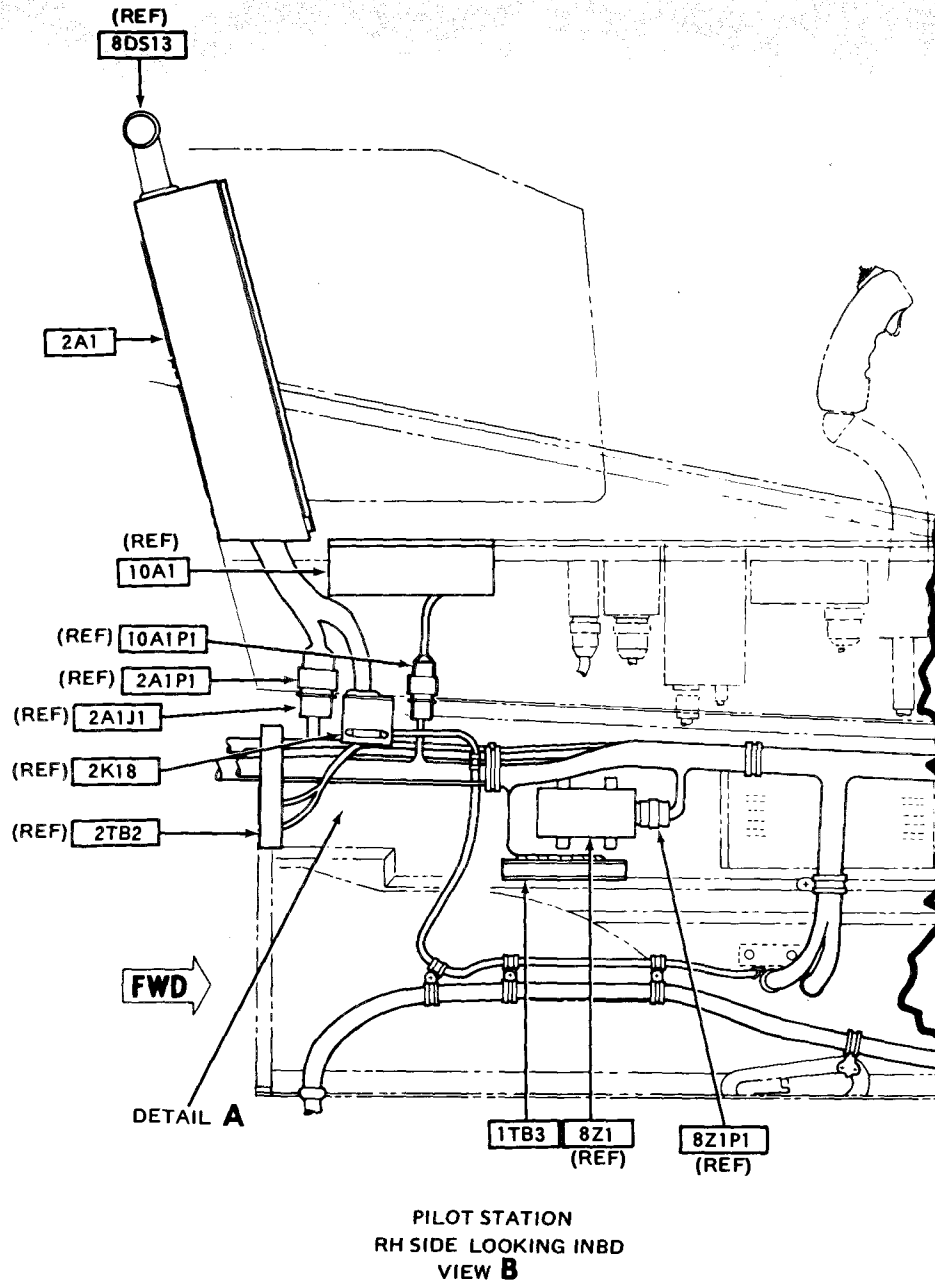
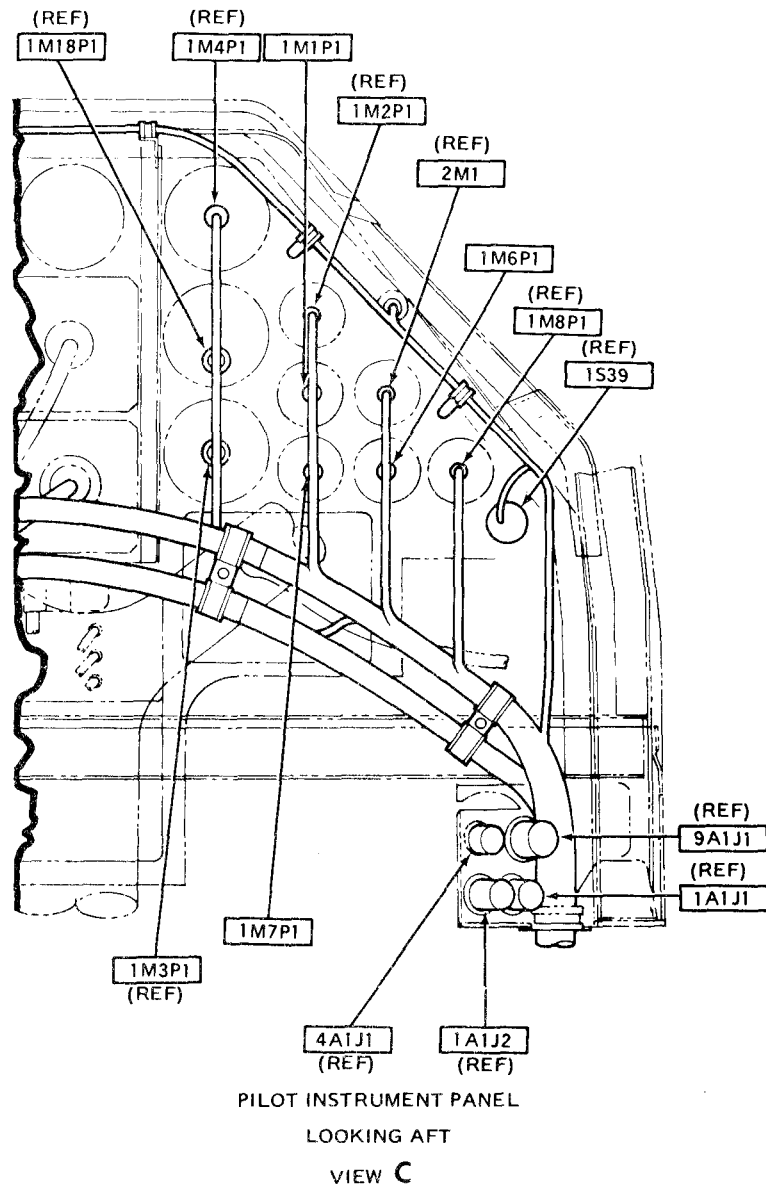


Figure F-43. **M** Temperature Indicating Systems (Sheet 2 of 10)

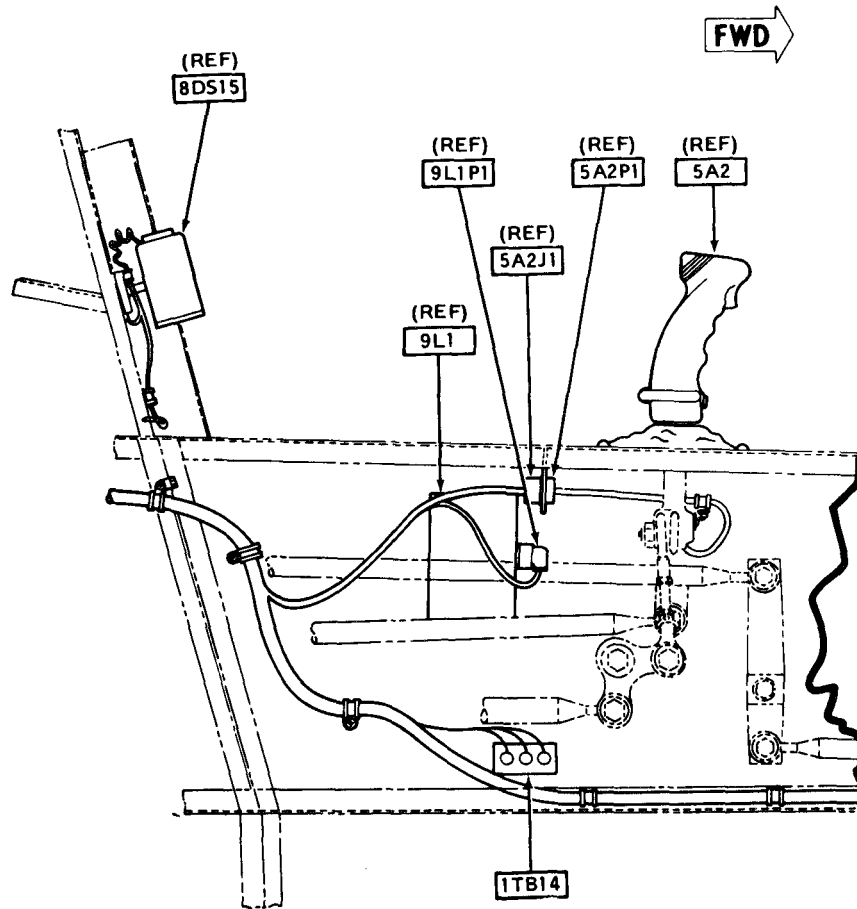
Figure F-43. **M** Temperature Indicating Systems (Sheet 3 of 10)





209475-516-4

Figure F-43. **M** Temperature Indicating Systems (Sheet 4 of 10)

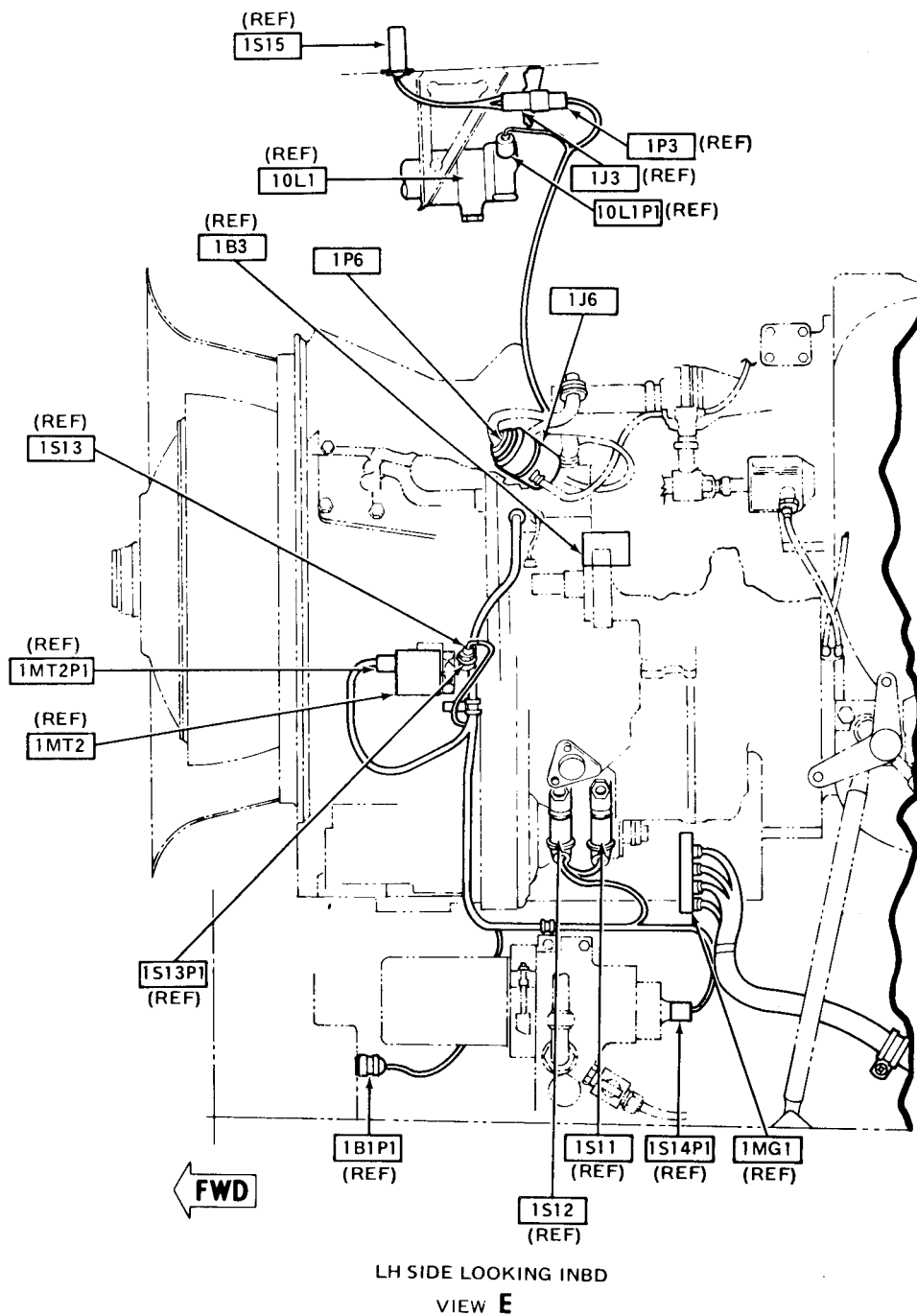


GUNNER STATION
LOOKING INBD RH SIDE
VIEW D

209475-516-5

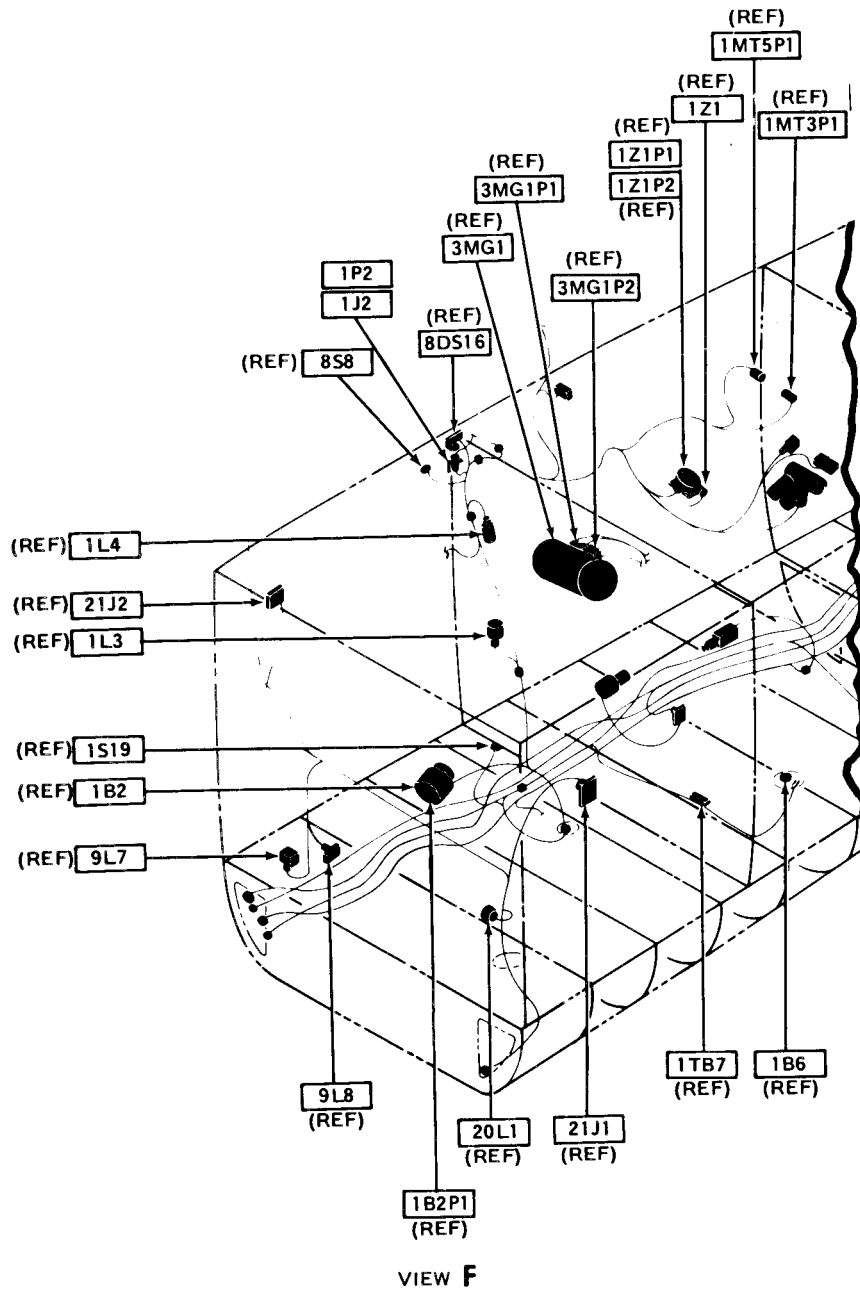
M

Figure F-43. Temperature Indicating Systems (Sheet 5 of 10)



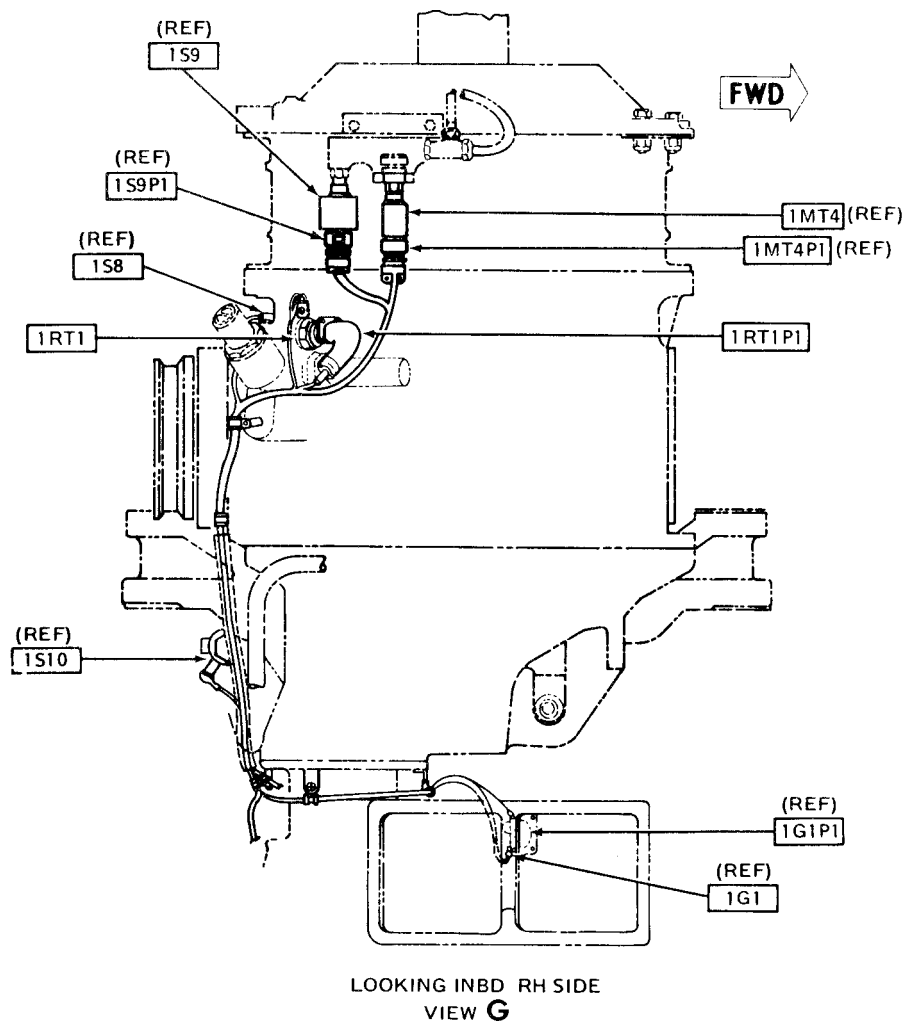
209475-516-6

Figure F-43. **M** Temperature Indicating Systems (Sheet 6 of 10)



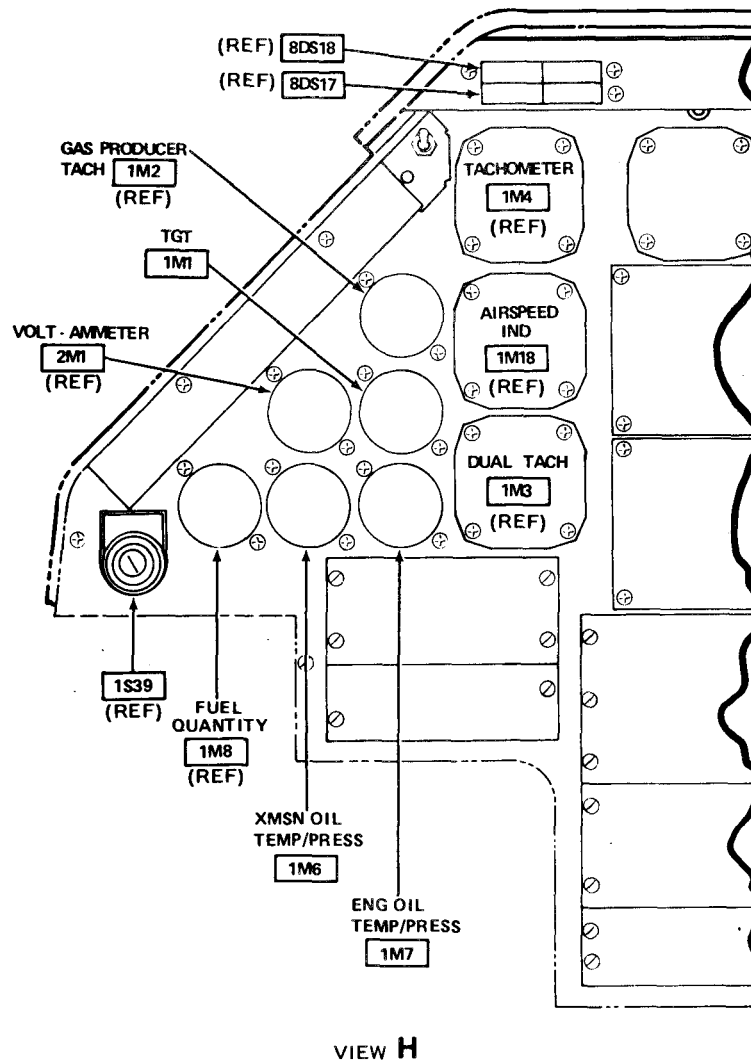
209475-516-7

Figure F-43. **M** Temperature Indicating Systems (Sheet 7 of 10)



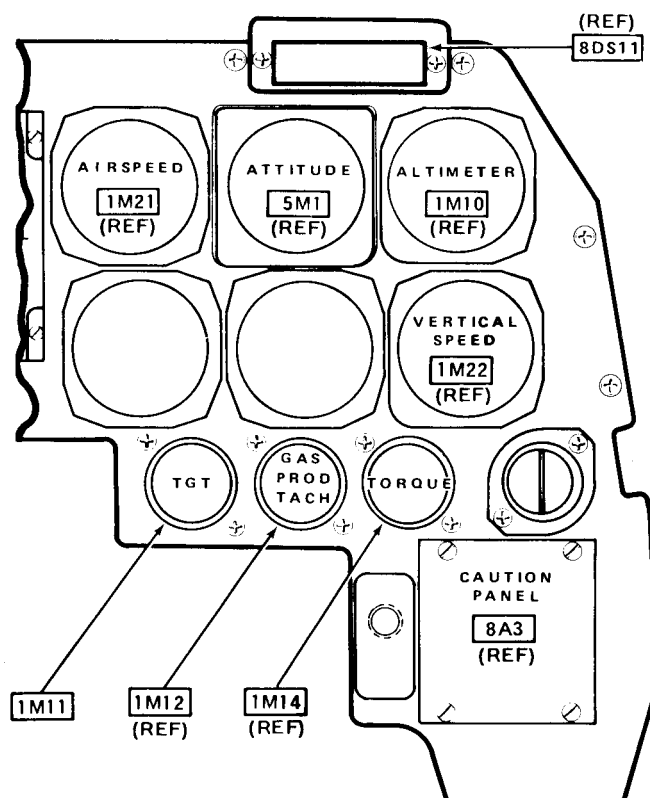
209475-516-8

Figure F-43. **M** Temperature Indicating Systems (Sheet 8 of 10)



209475-516-9

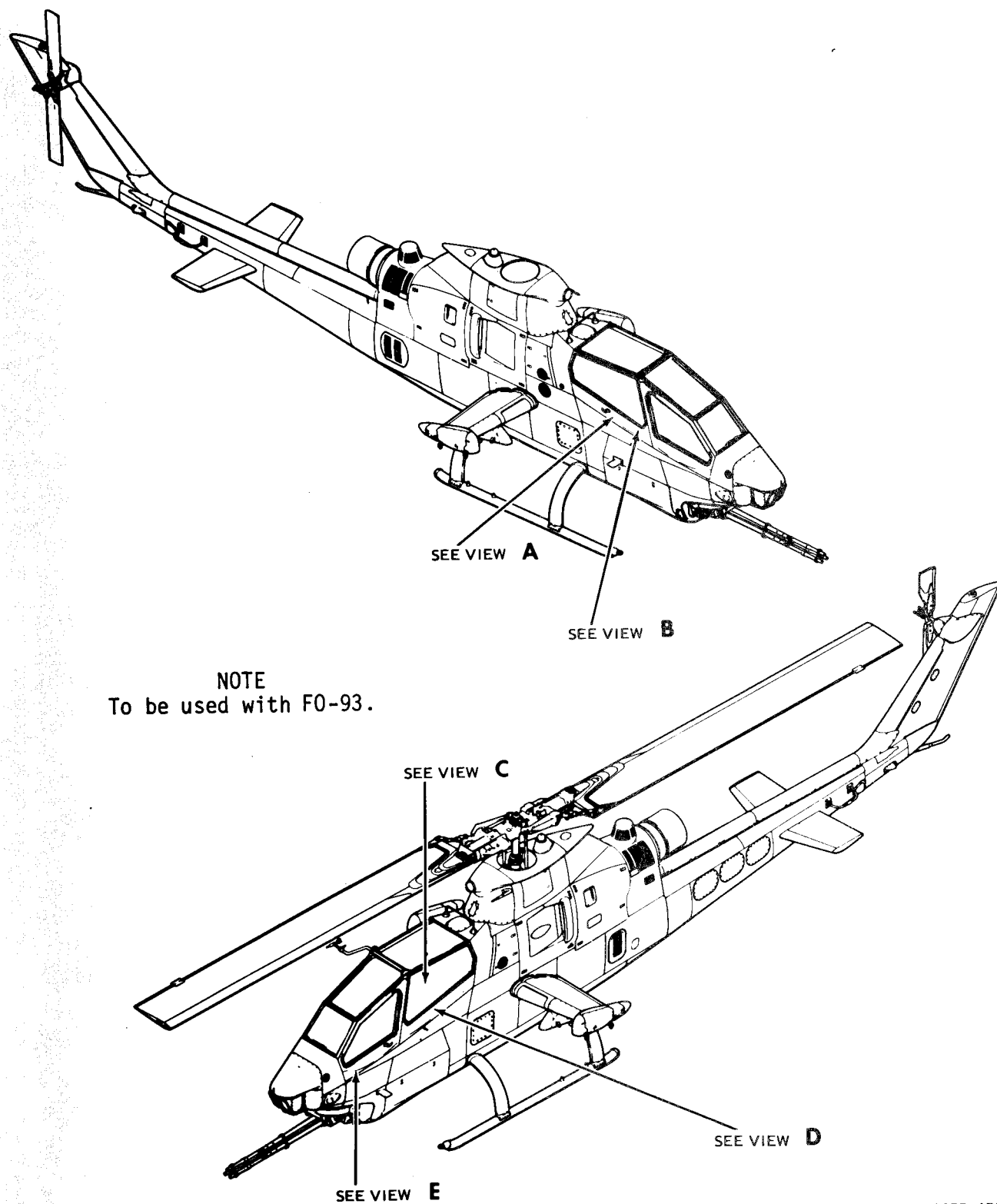
Figure F-43. **M**Temperature Indicating Systems (Sheet 9 of 10)



VIEW I

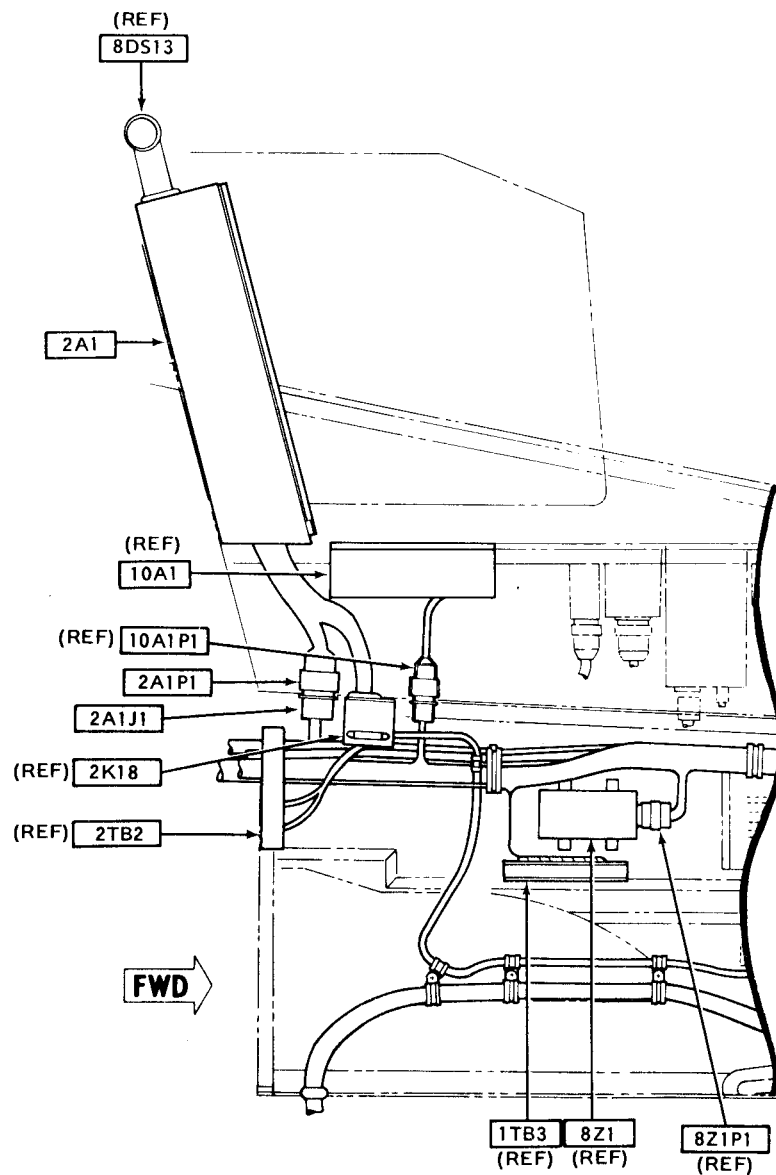
209475-516-10

Figure F-43. **M** Temperature Indicating Systems (Sheet 10 of 10)



209475-478-1

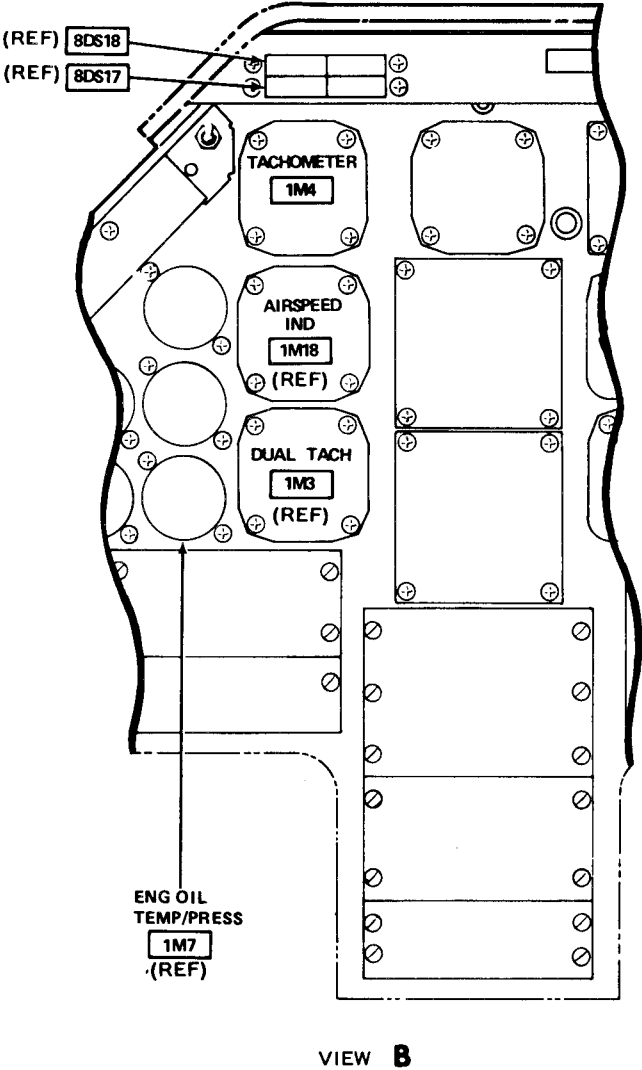
Figure F-44. **M** Attitude Indicating System (Equipment Location) (Sheet 1 of 6)



PILOT STATION
RH SIDE LOOKING INBD
VIEW **A**

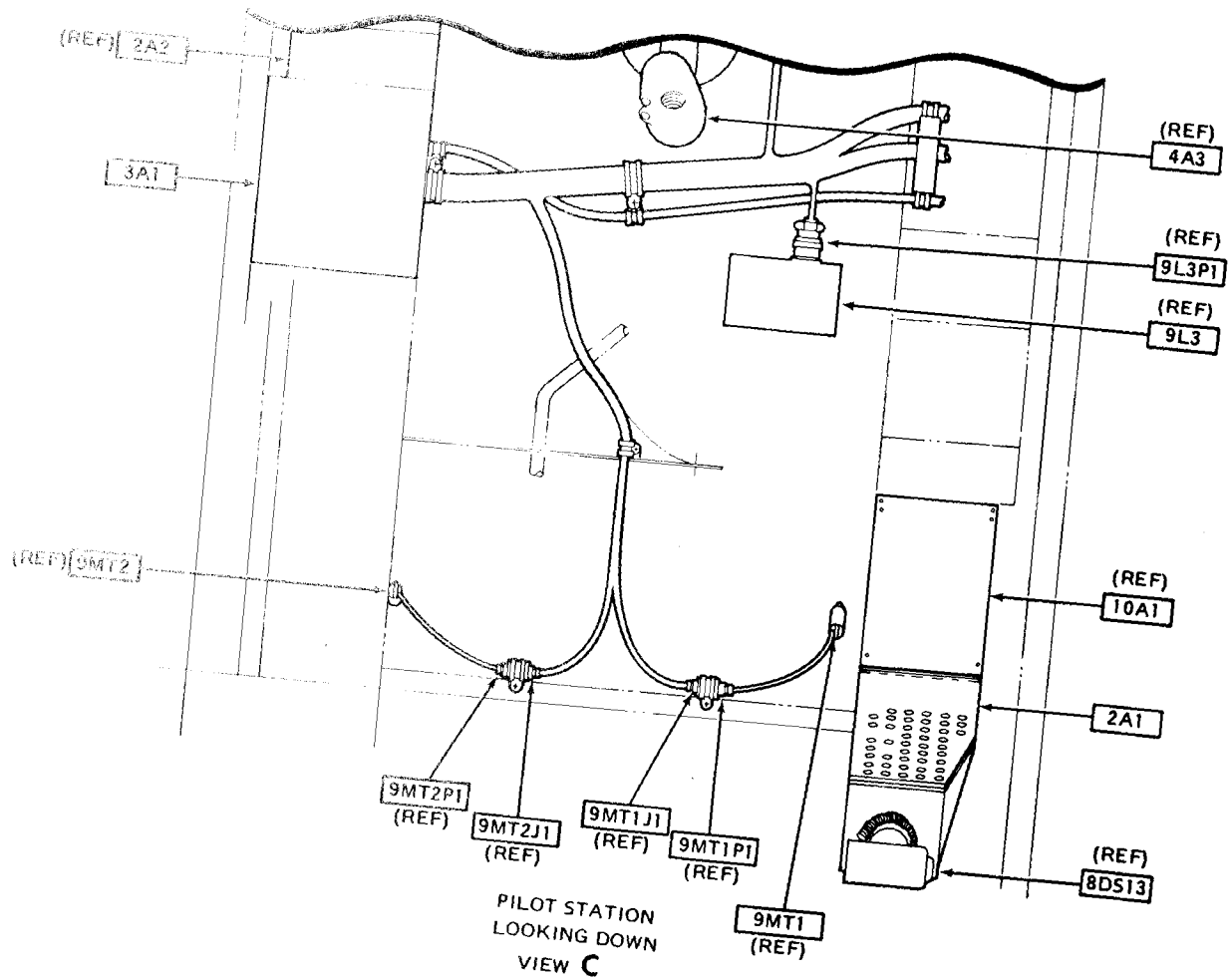
209475-478-5

Figure F-44. **M** Attitude Indicating System (Equipment Location) (Sheet 2 Of 6)



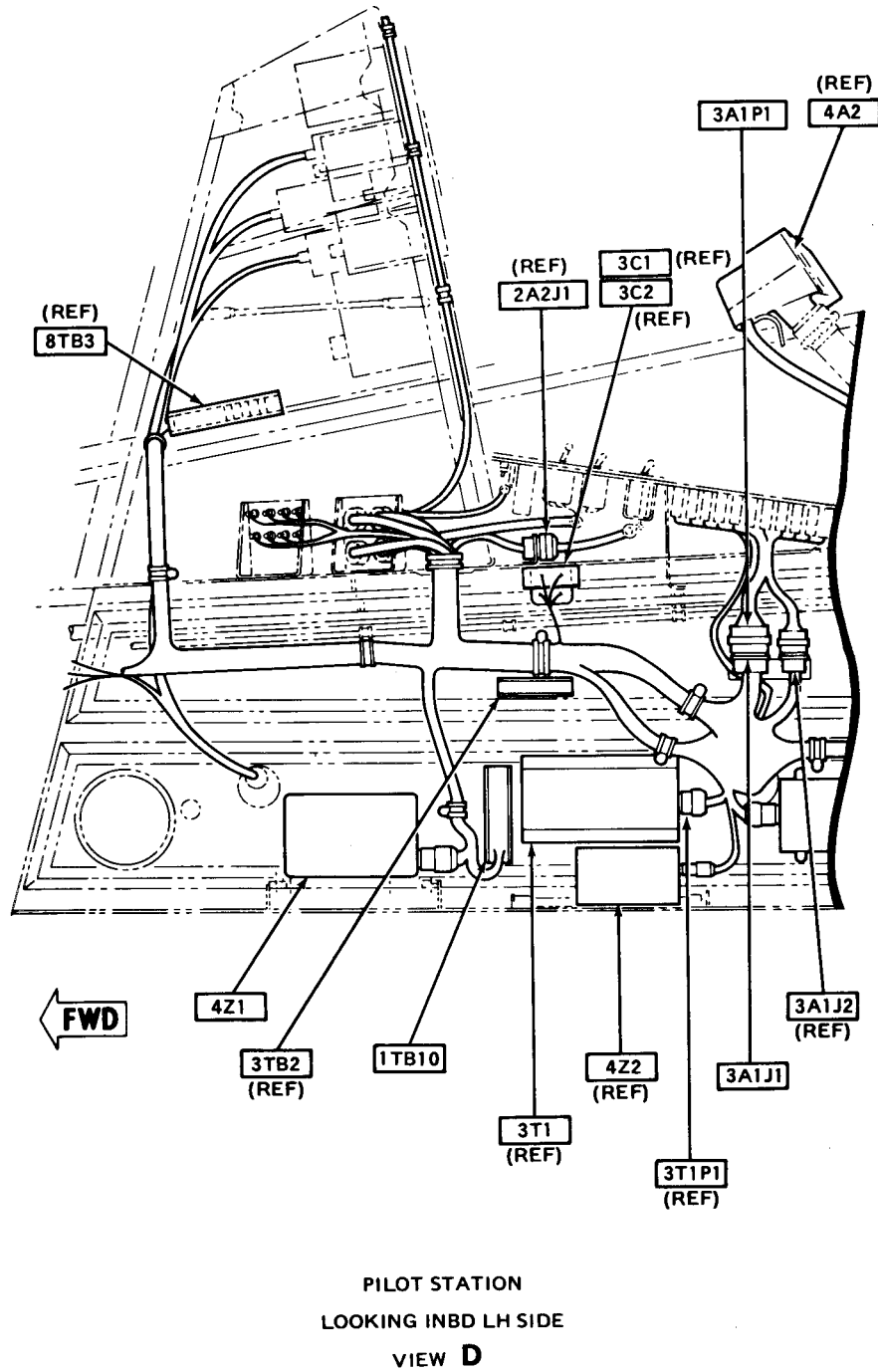
209475-478-3

Figure F-44. **M** Attitude Indicating System (Equipment Location) (Sheet 3 of 6)



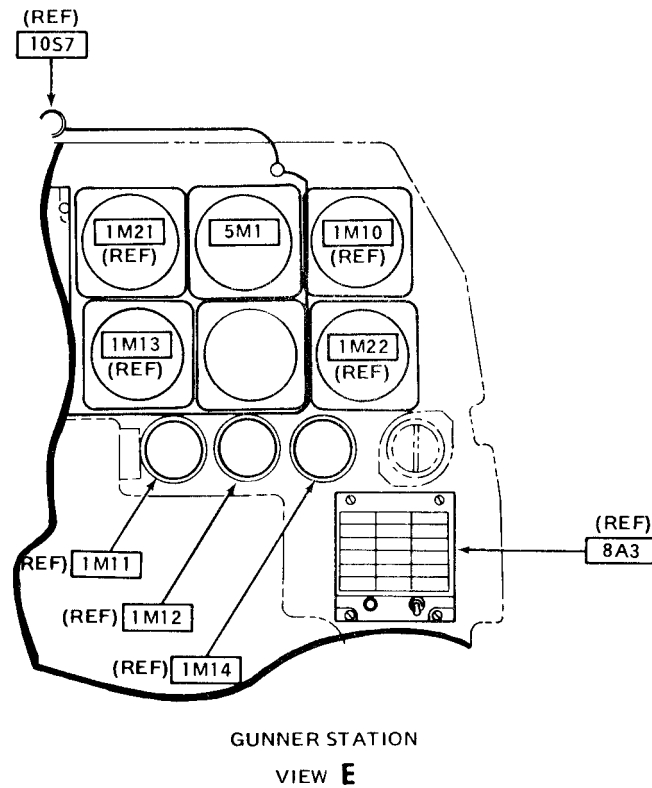
209475-478-4

Figure F-44. **M** Attitude indicating System (Equipment Location) (sheet 4 of 6)



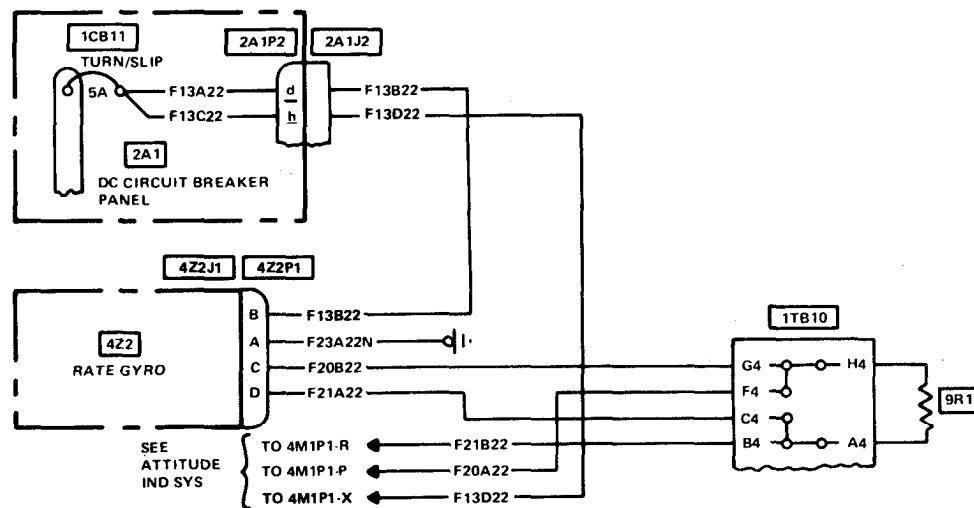
209475-478-2

Figure F-44. **M**Attitude Indicating system (Equipment Location) (Sheet 5 of 6)



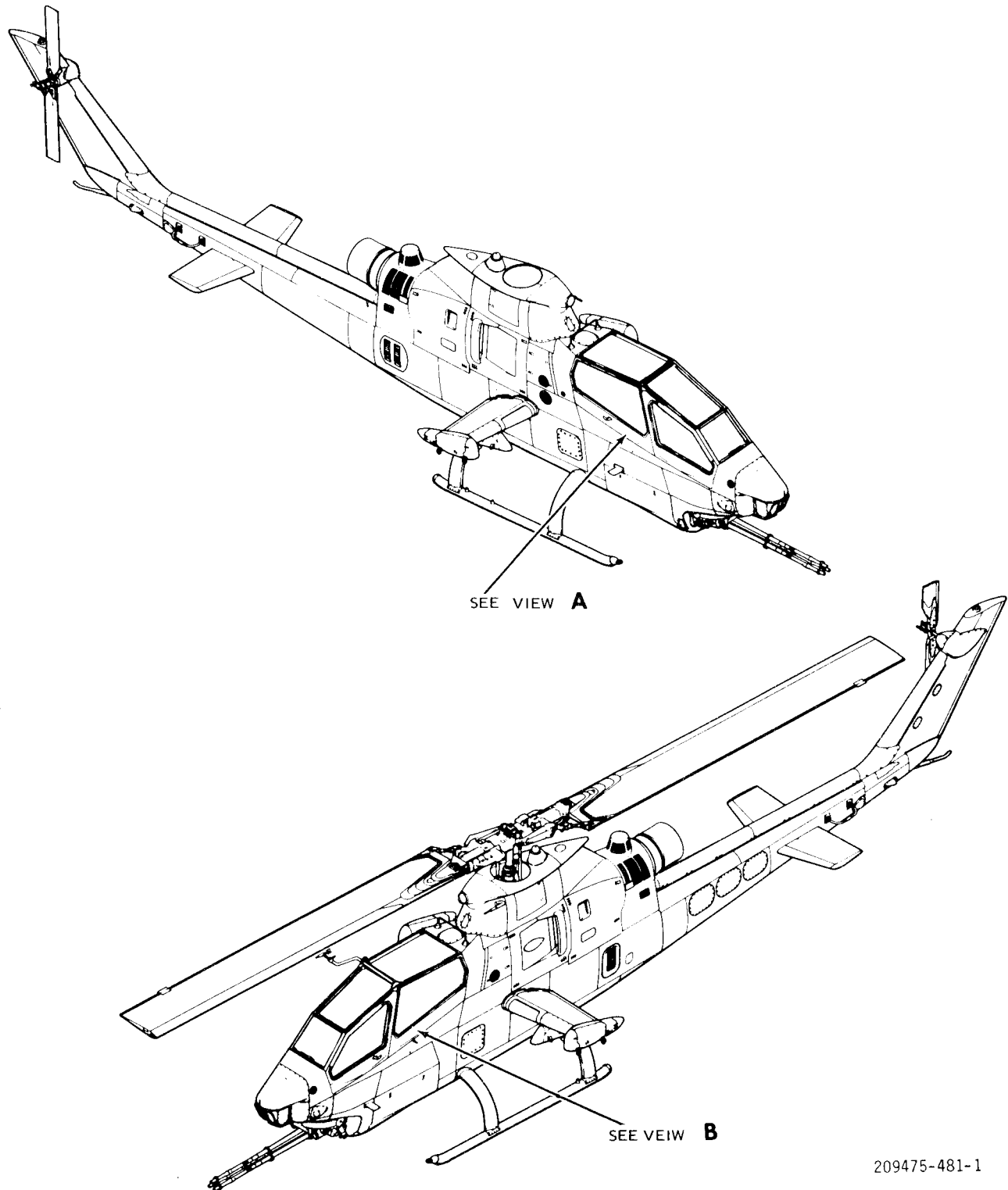
209475-478-6

Figure F-44. **M** Attitude Indicating System (Equipment Location) (Sheet 6 of 6)



209475-370B

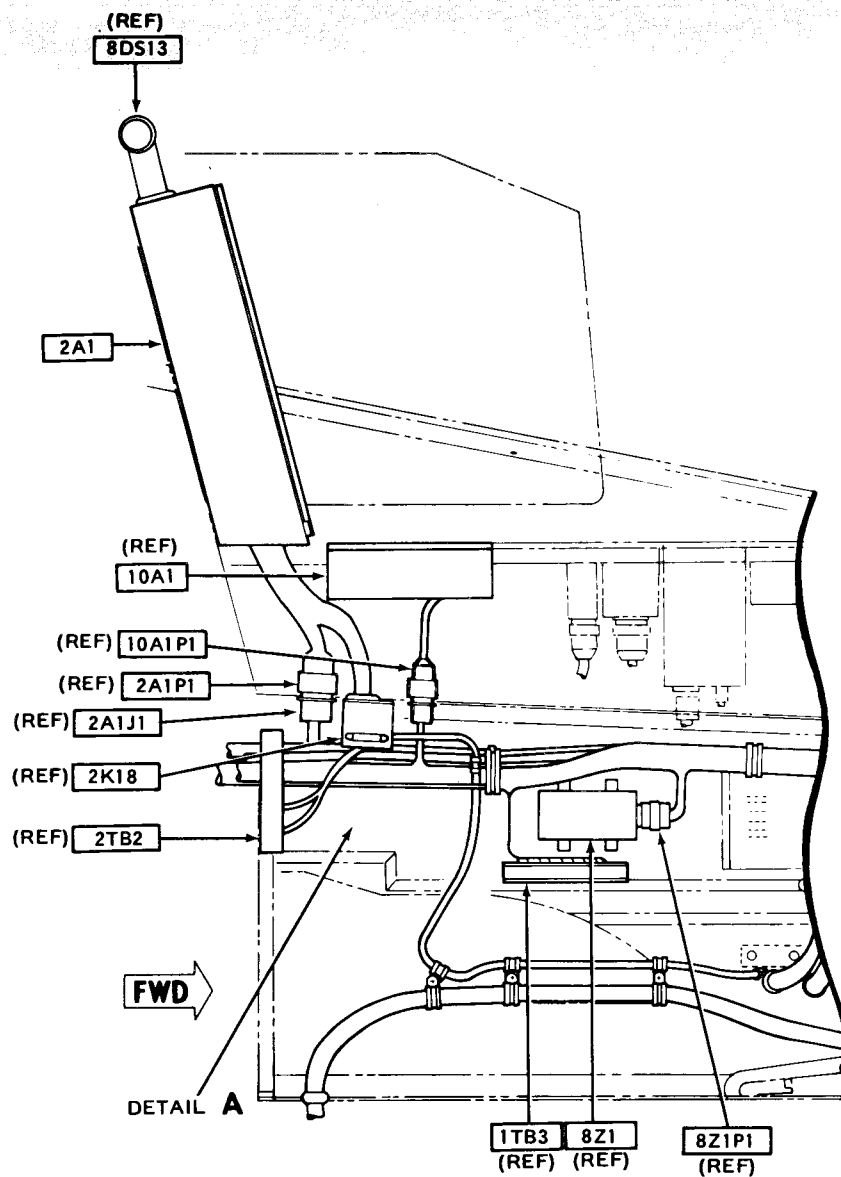
Figure F-45. **M** Turn and Slip Indicating System (Sheet 1 of 4)



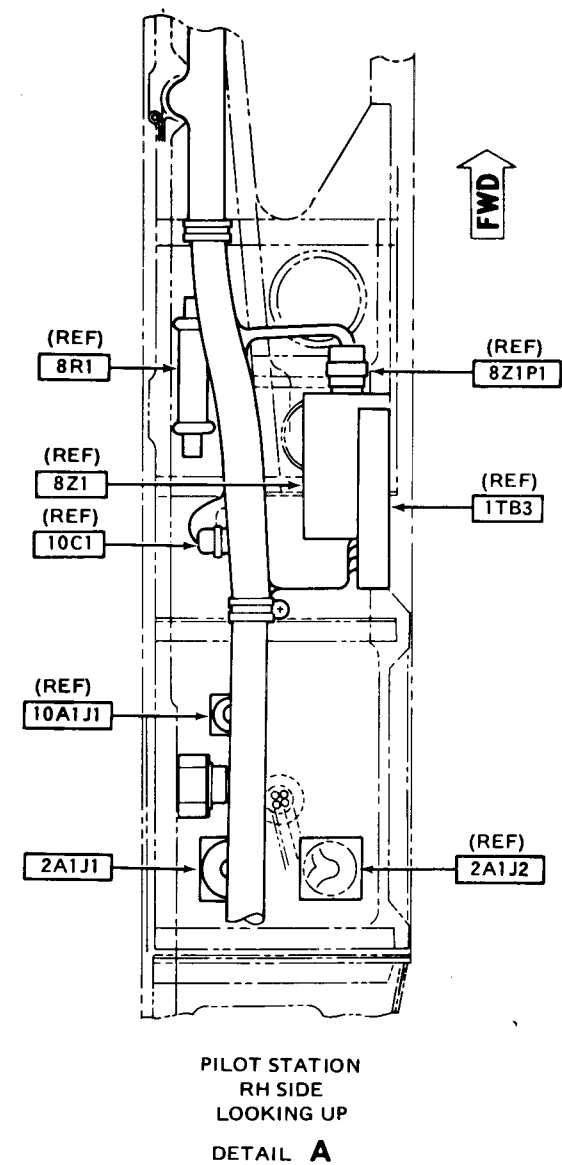
209475-481-1

Figure F-45. **M** Turn and Slip Indicating System (Sheet 2 of 4)

Figure F-45. **M** Turn and Slip Indicating System (Sheet 3 of 4)

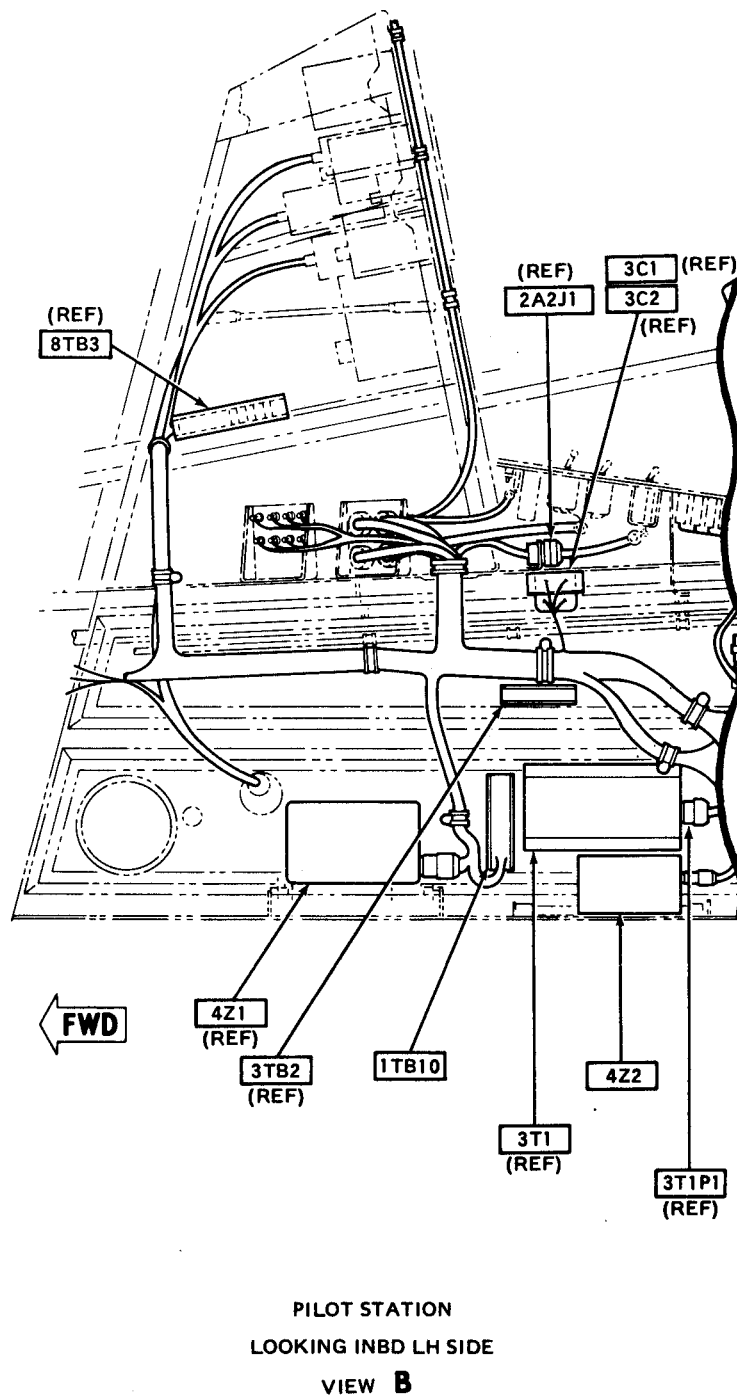


PILOT STATION
RH SIDE LOOKING INBD
VIEW A



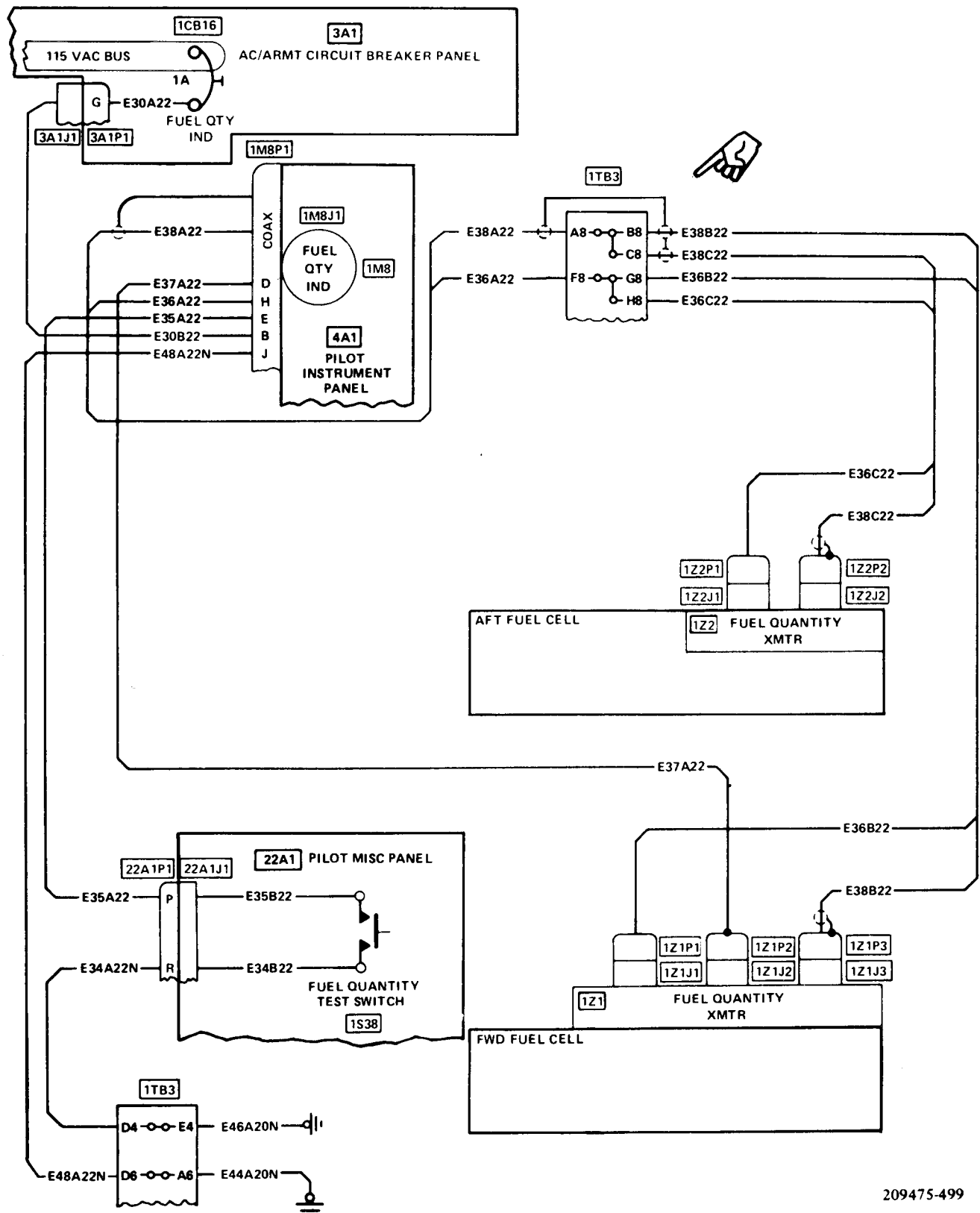
PILOT STATION
RH SIDE
LOOKING UP
DETAIL A

209475-481-2



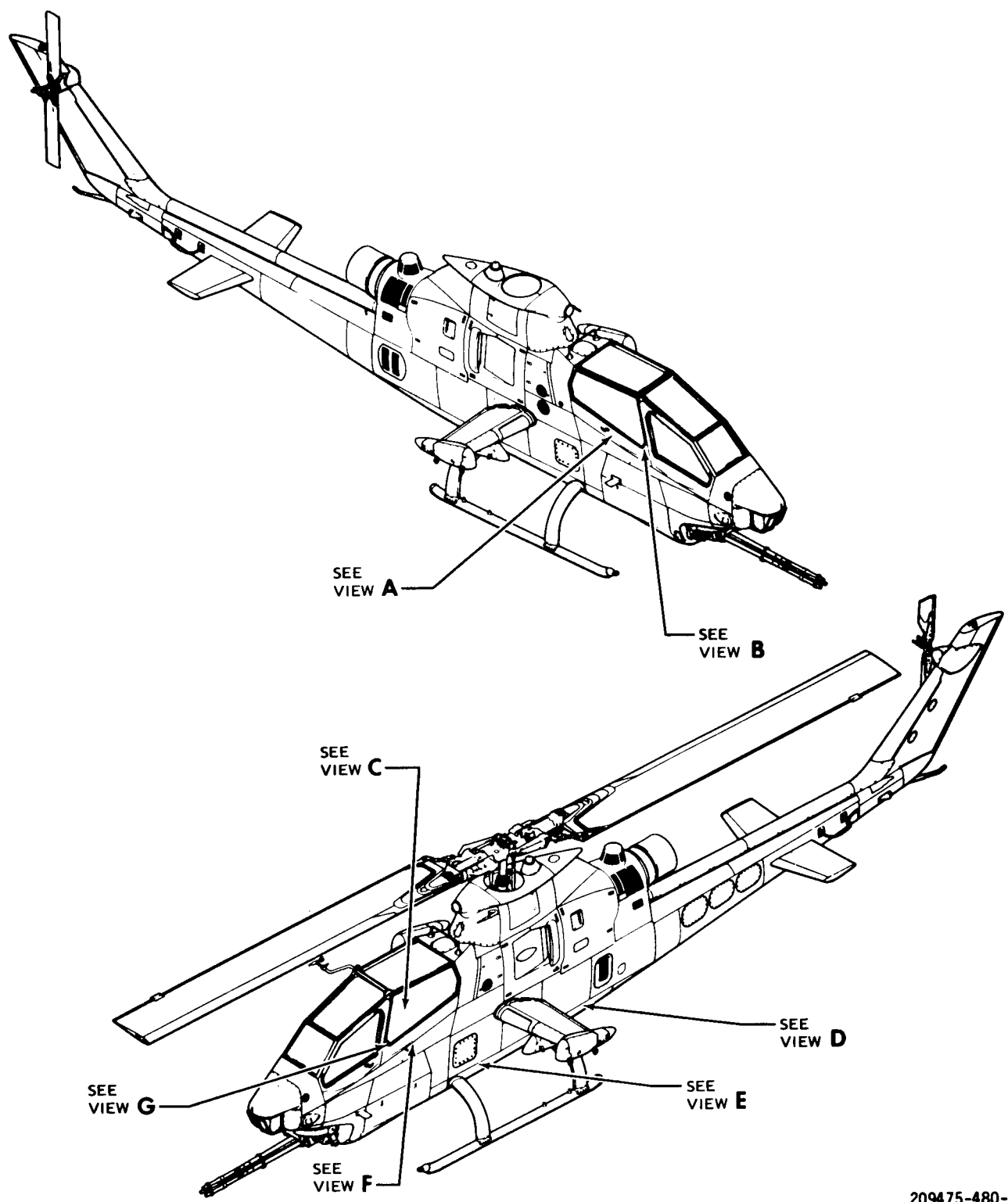
209475-481-3

Figure F-45. **M** Turn and Slip Indicating System (Sheet 4 of 4)



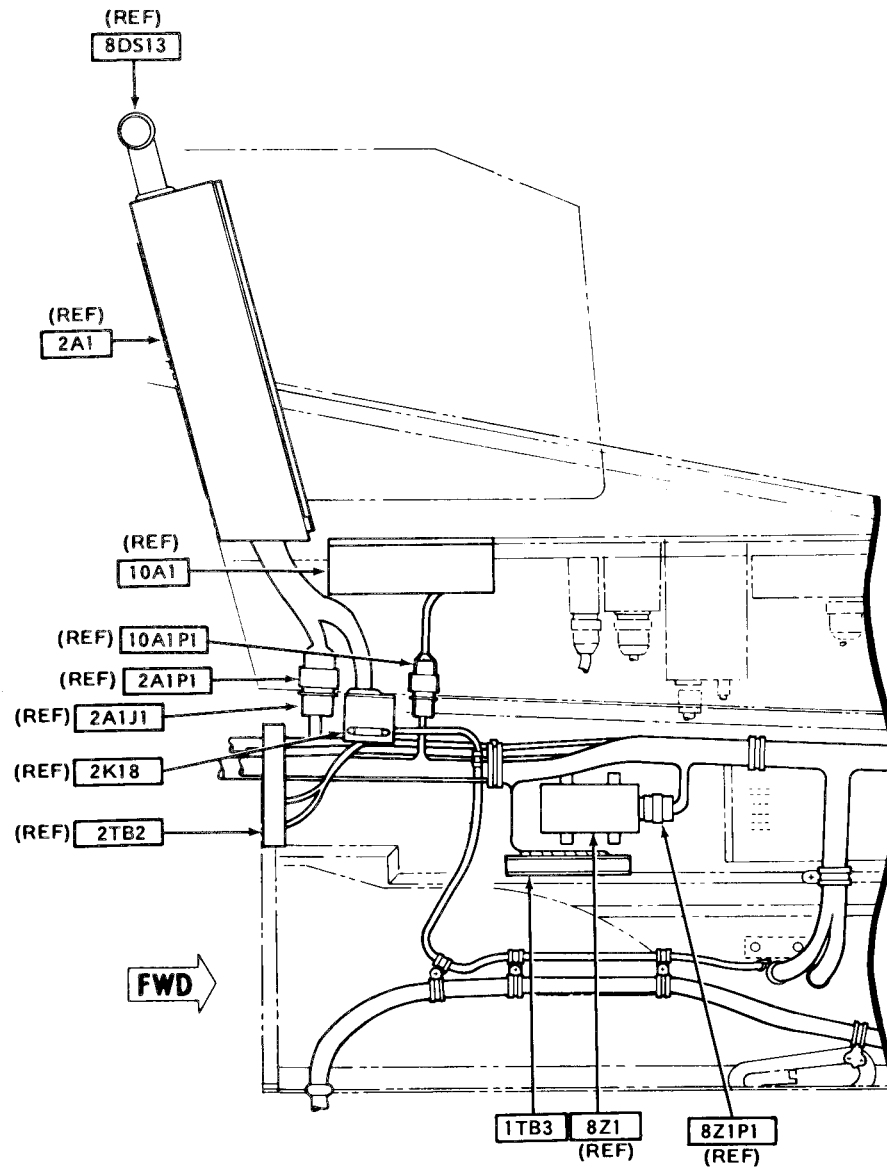
209475-499

Figure F-46. **M** Fuel Quantity indicating System (Sheet 1 of 9)



209475-480-1

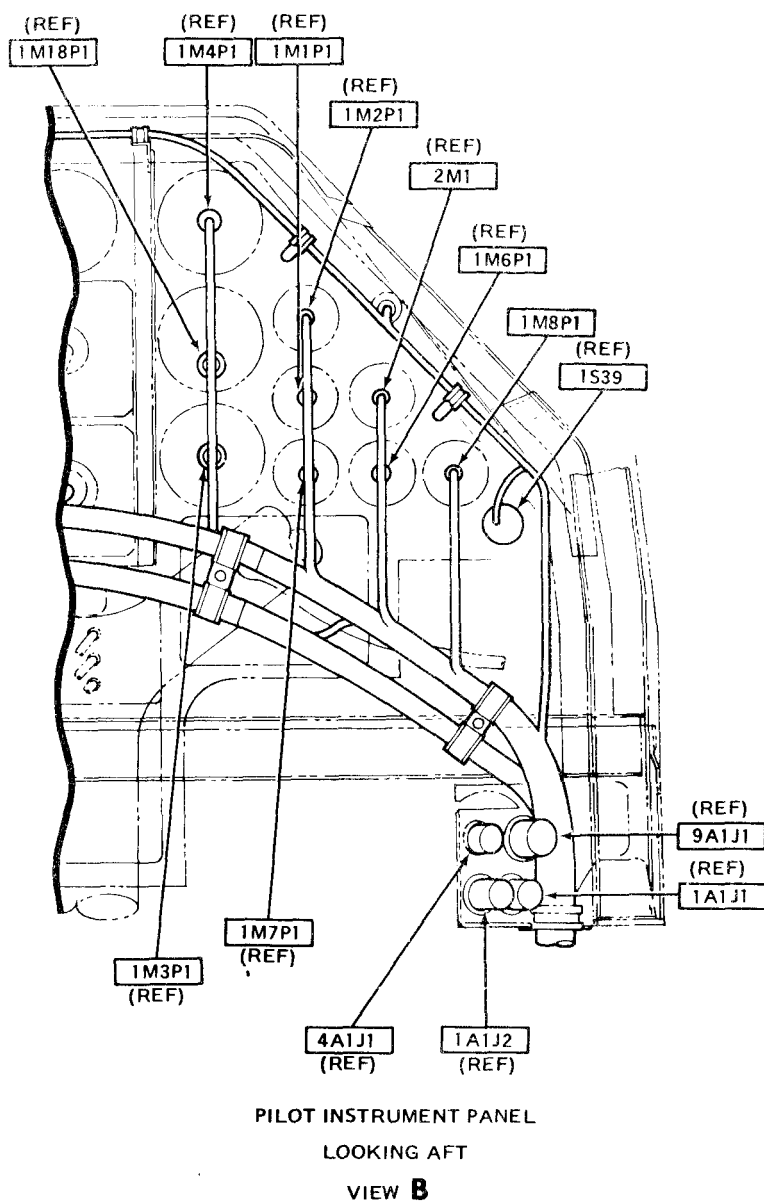
Figure F-46. **M** Fuel Quantity indicating System (Sheet 2 of 9)



PILOT STATION
RH SIDE LOOKING INBD
VIEW A

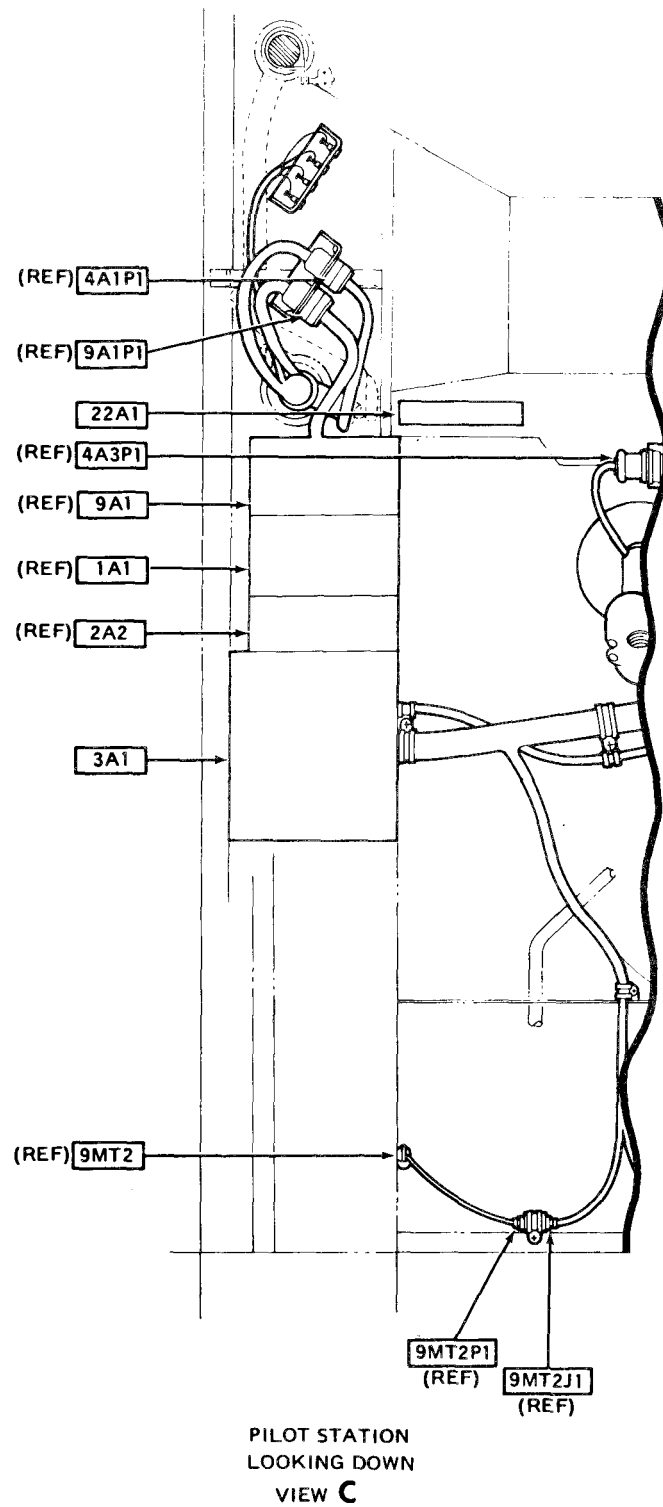
209475-480-2

Figure F-46. **M** Fuel Quantity Indicating System (Sheet 3 of 9)



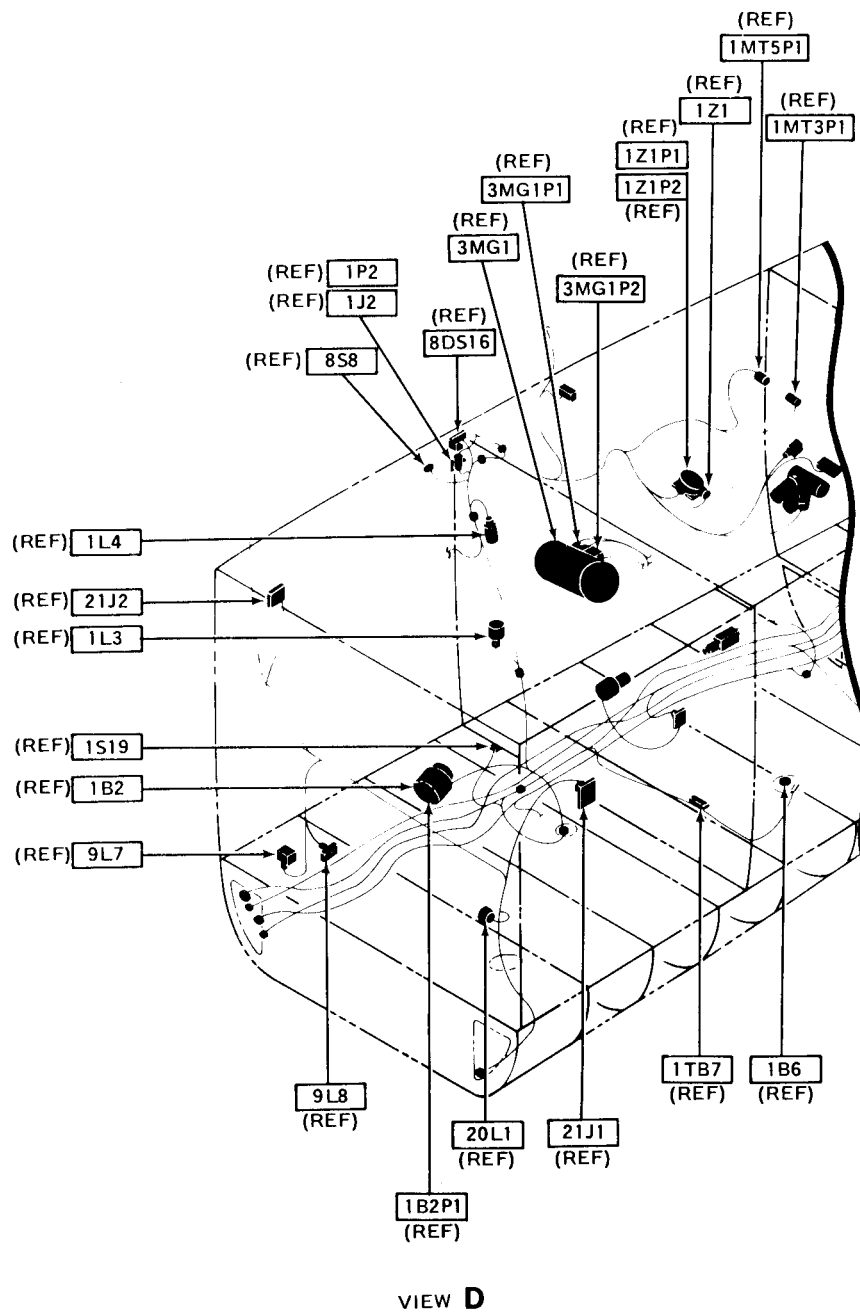
209475-480-3

Figure F-46. **M** Fuel Quantity Indicating System (Sheet 4 of 9)



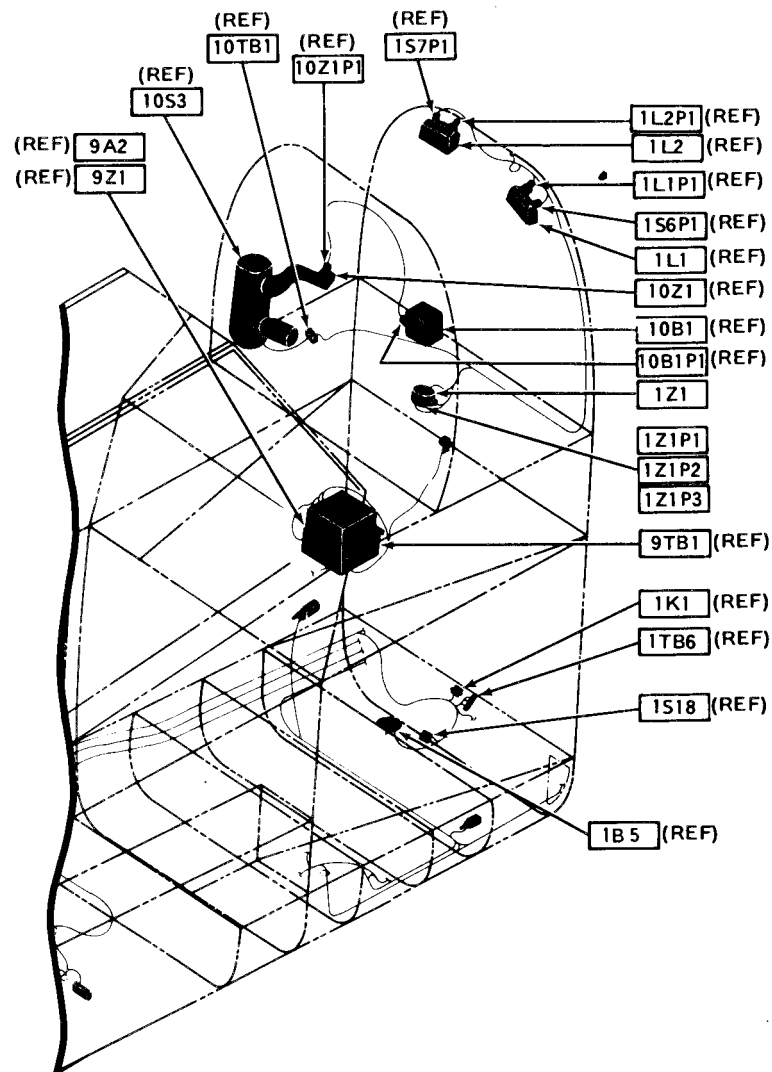
209475-480-4

Figure F-46. **M** Fuel Quantity Indicating System (Sheet 5 of 9)



209475-480-5

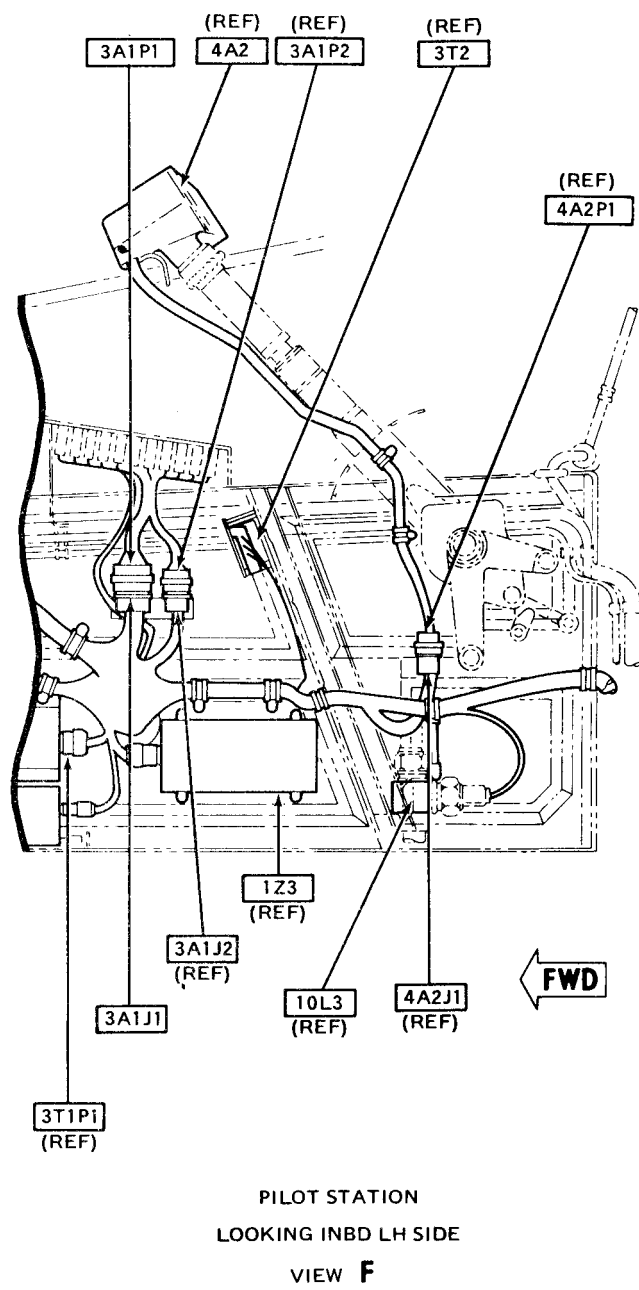
Figure F-46. **M** Fuel Quantity Indicating System (Sheet 6 of 9)



VIEW E

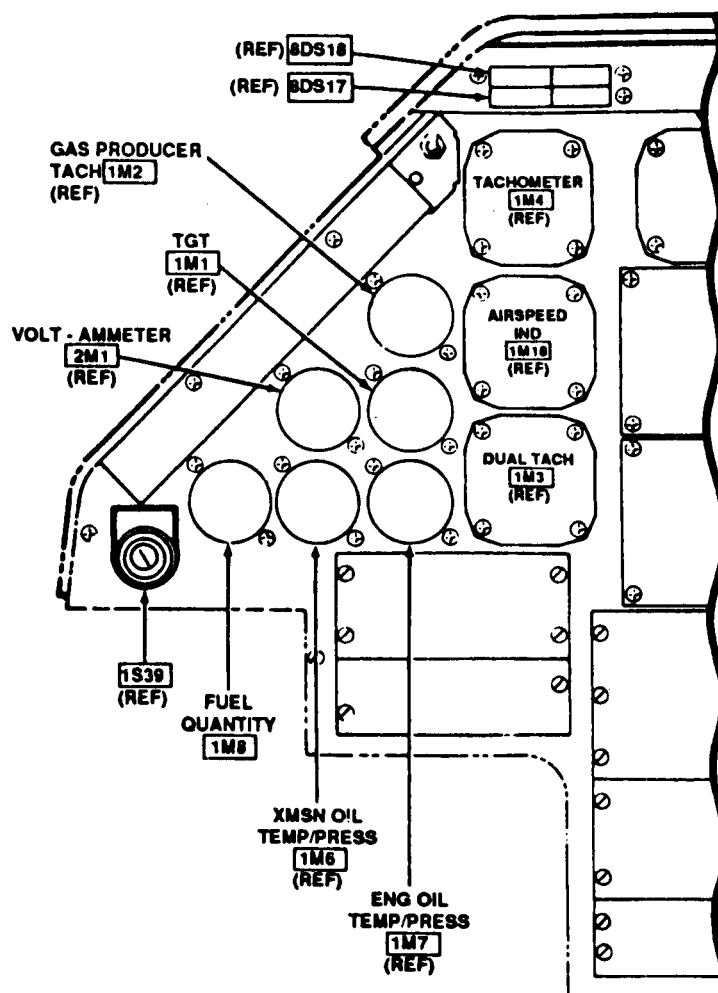
209475-480-6

Figure F-46. **M** Fuel Quantity Indicating System (Sheet 7 of 9)



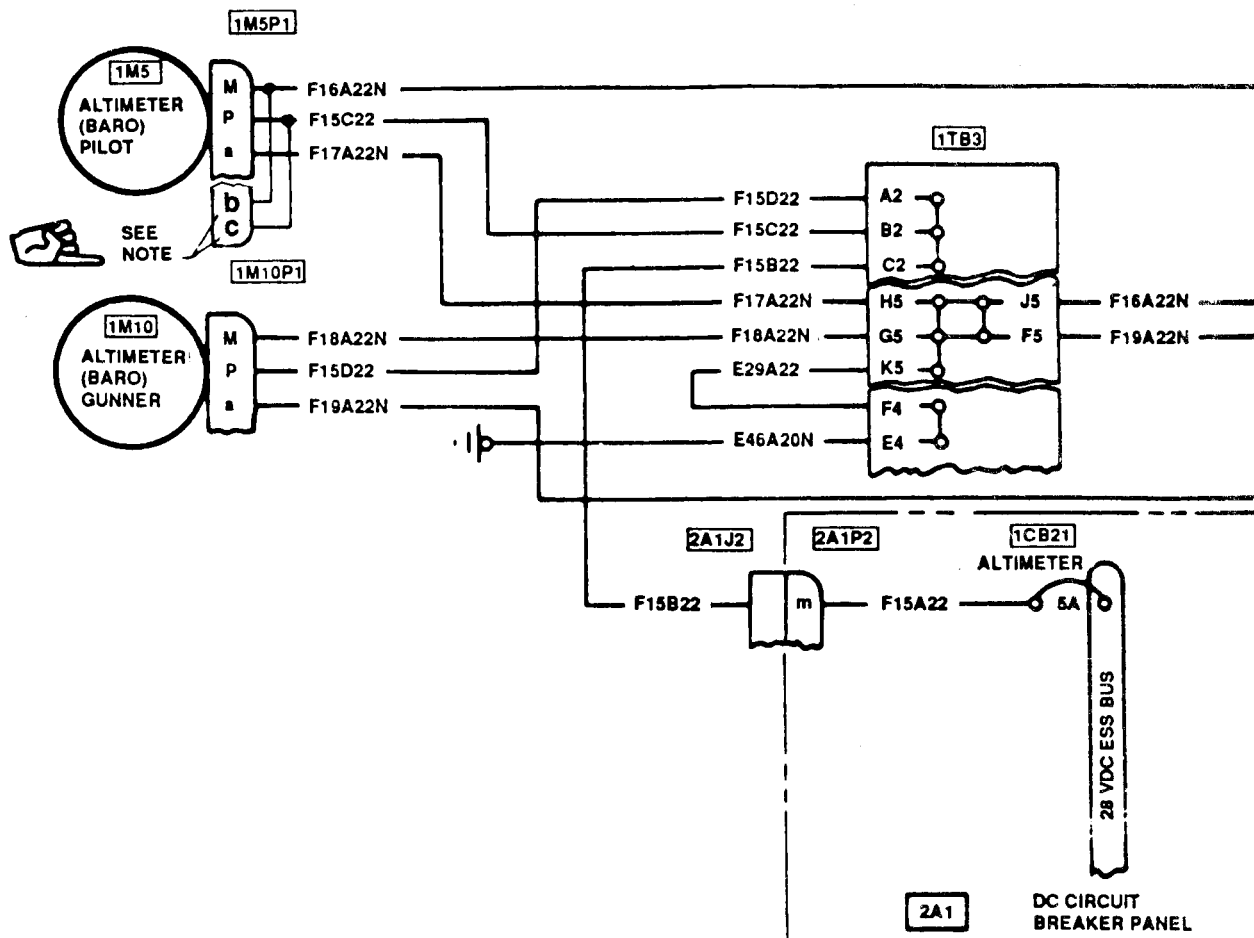
209475-480-7

Figure F-46. **M** Fuel Quantity Indicating System (Sheet 8 of 9)



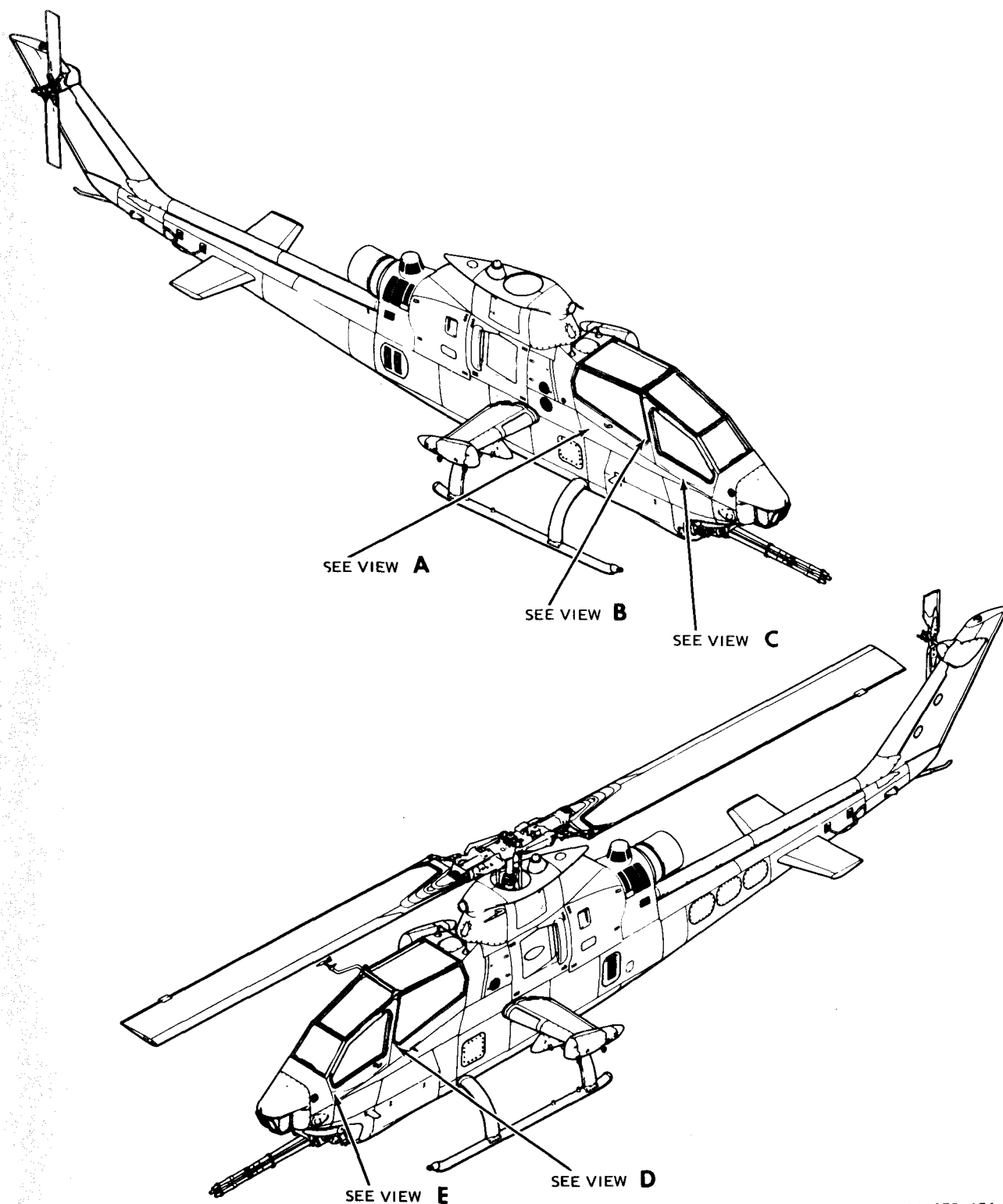
VIEW G

Figure F-46 Fuel Quantity Indicating System (Sheet 9 of 9)



Note: Jumper wires between Pins M and b, and Pins P and c are required for AA-32A encoding altimeter only.

Figure F-47. [M] Altimeter Vibrator System (Sheet 1 of 7)



209475-474-1

Figure F-47. **M** Altimeter Vibrator System (Sheet 2 of 7)

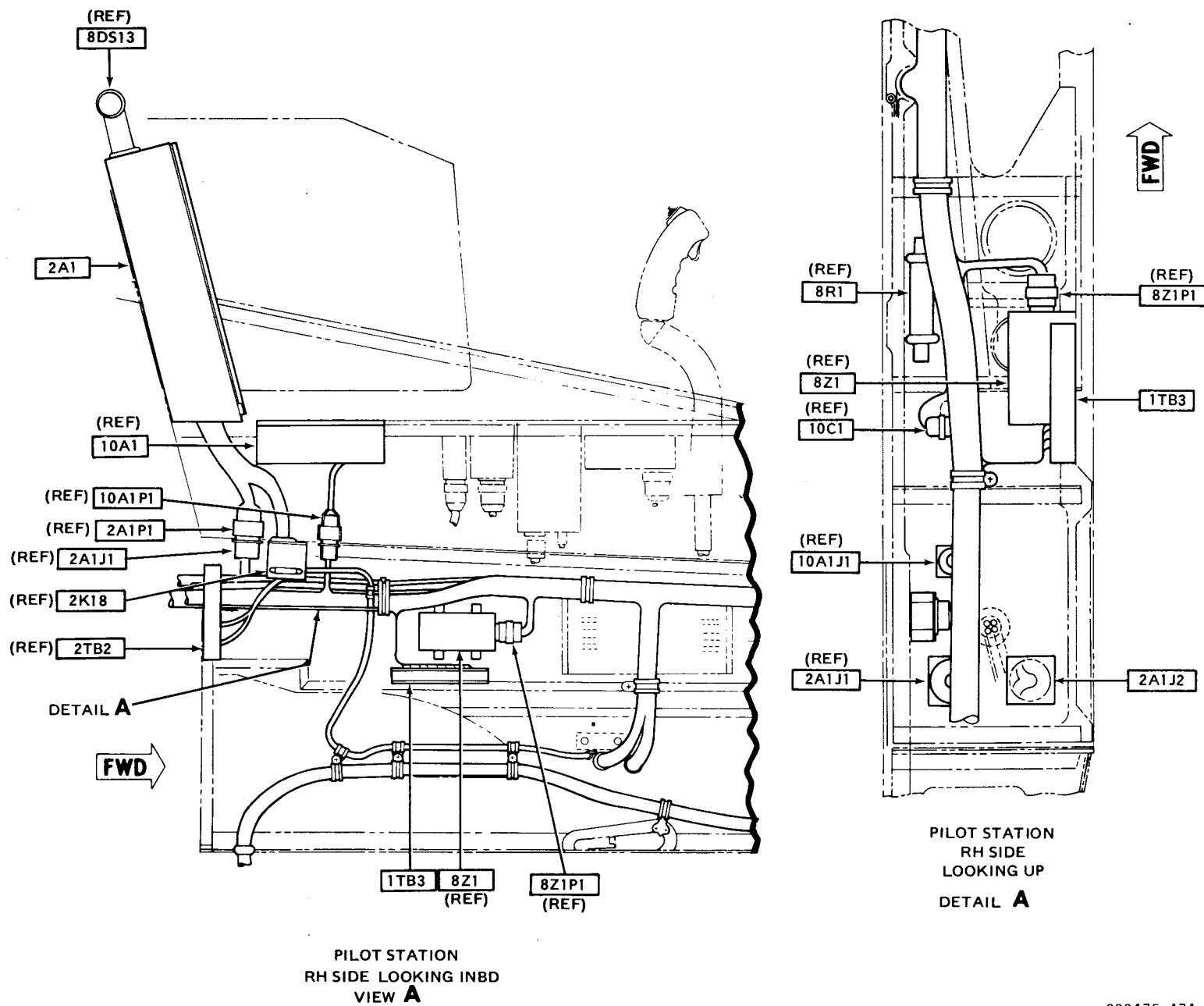
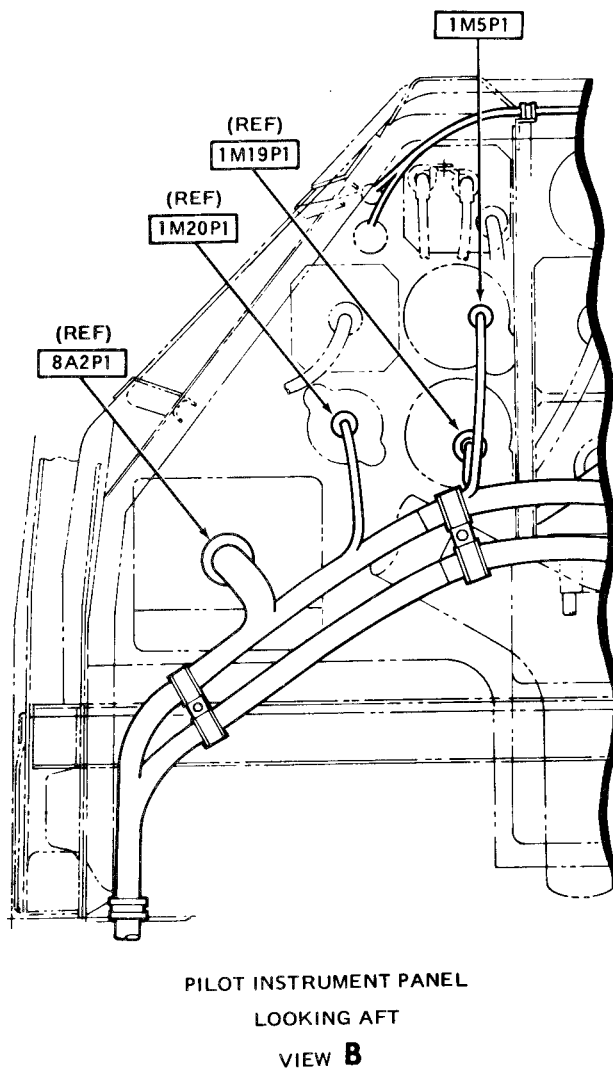
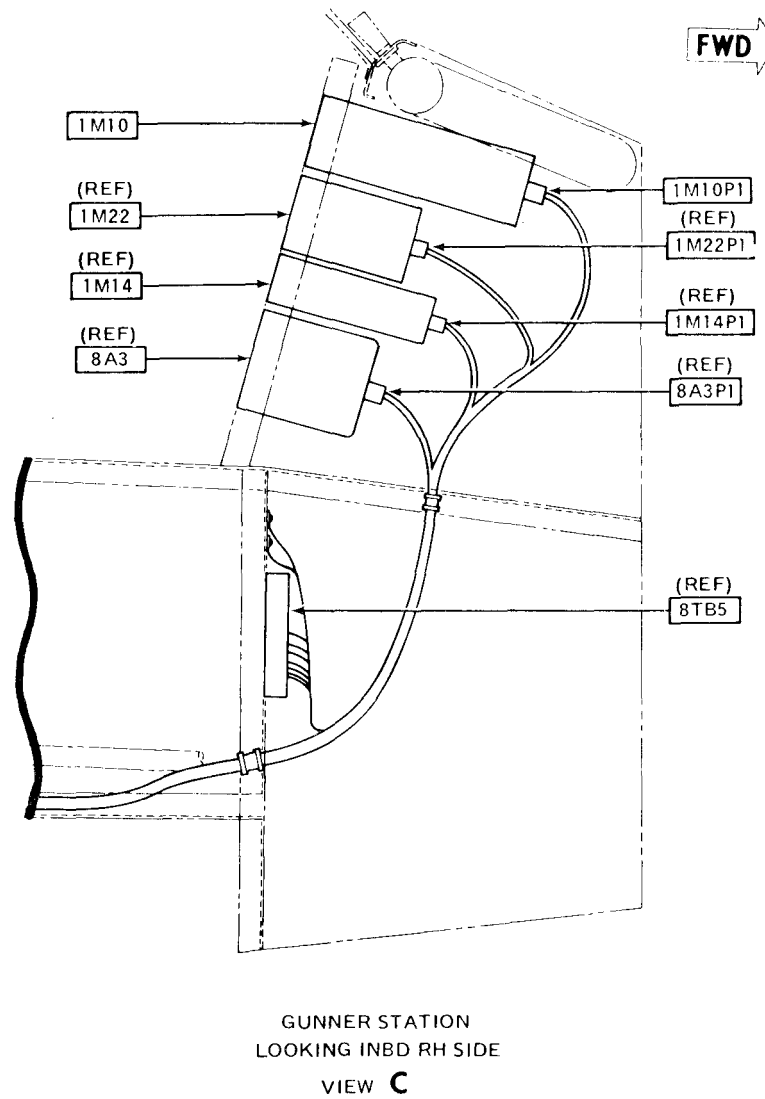


Figure F-47. **M** Altimeter Vibrator System (Sheet 3 of 7)



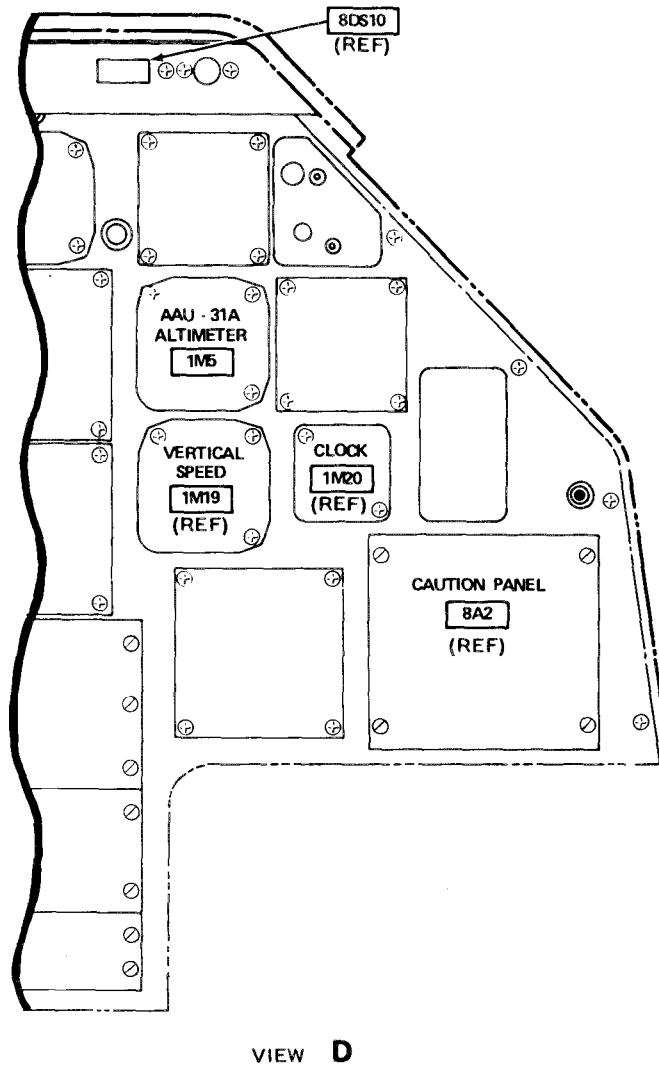
209475-474-3

Figure F-47. **M** Altimeter Vibrator System (Sheet 4 of 7)



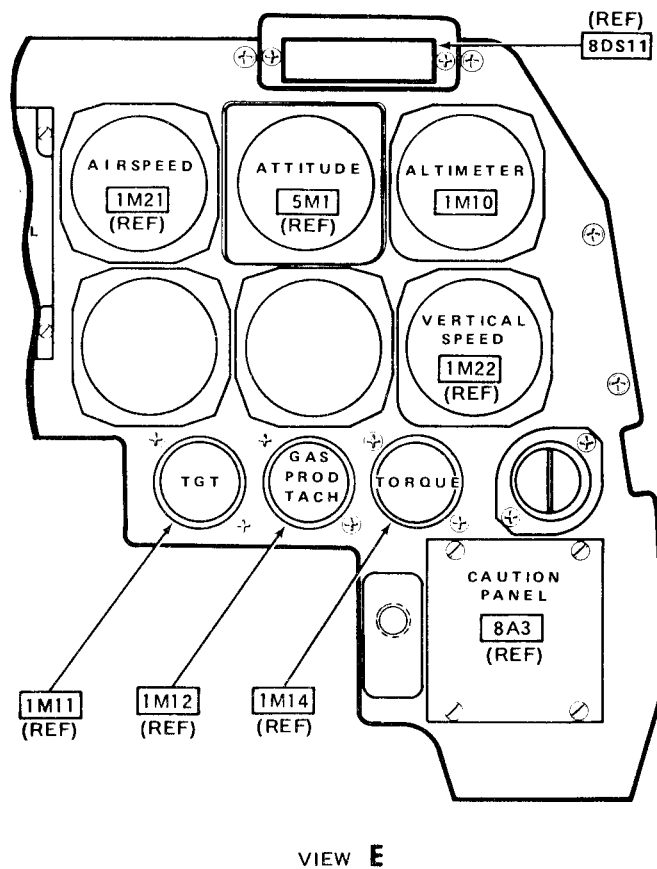
209475-474-4

Figure F-47. **M** Altimeter Vibrator System (Sheet 5 of 7)



209475-474-5

Figure F-47. **M** Altimeter Vibrator System (Sheet 6 of 7)



209475-474-6

Figure F-47. ^M Altimeter Vibrator System (Sheet 7 of 7)

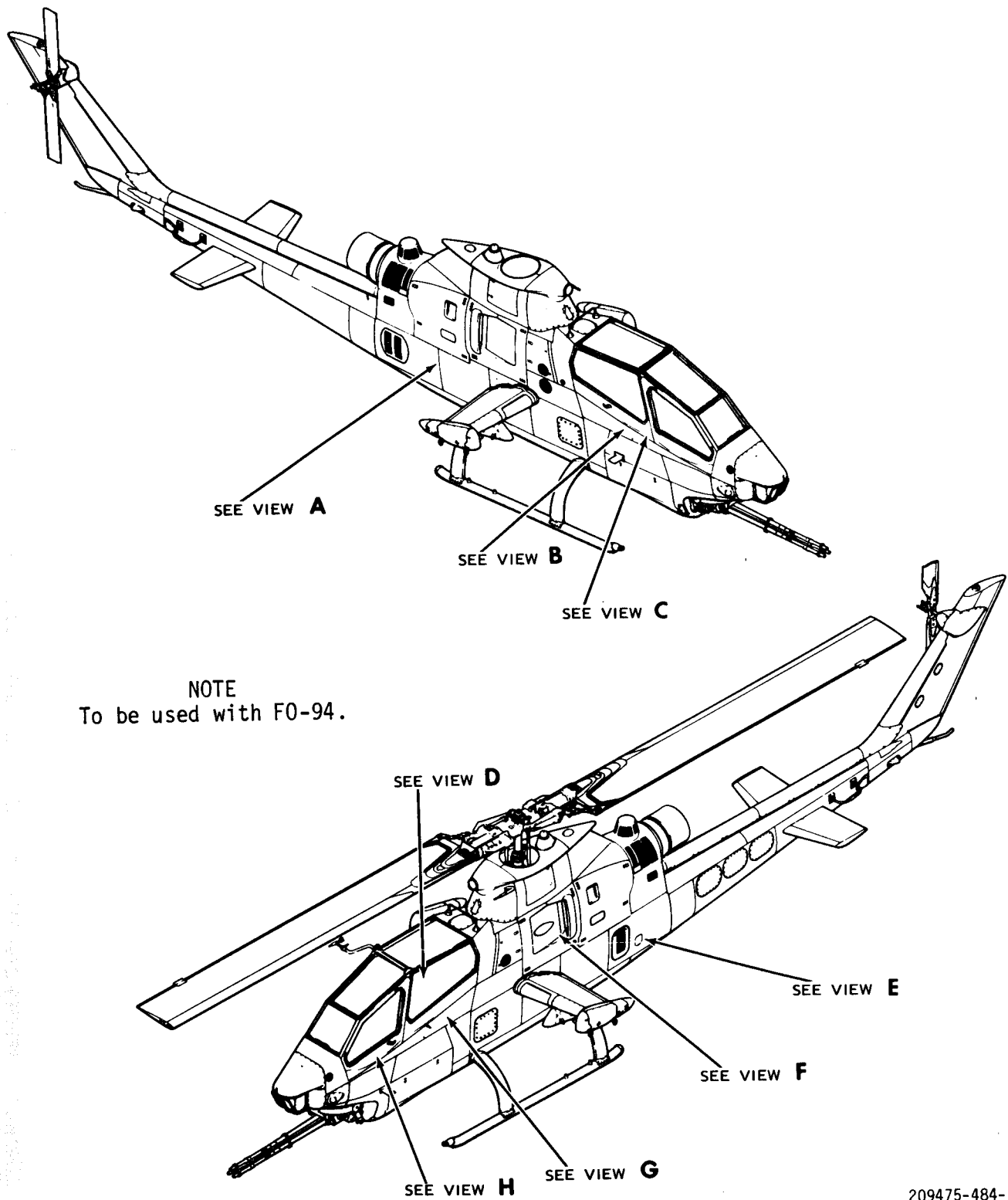
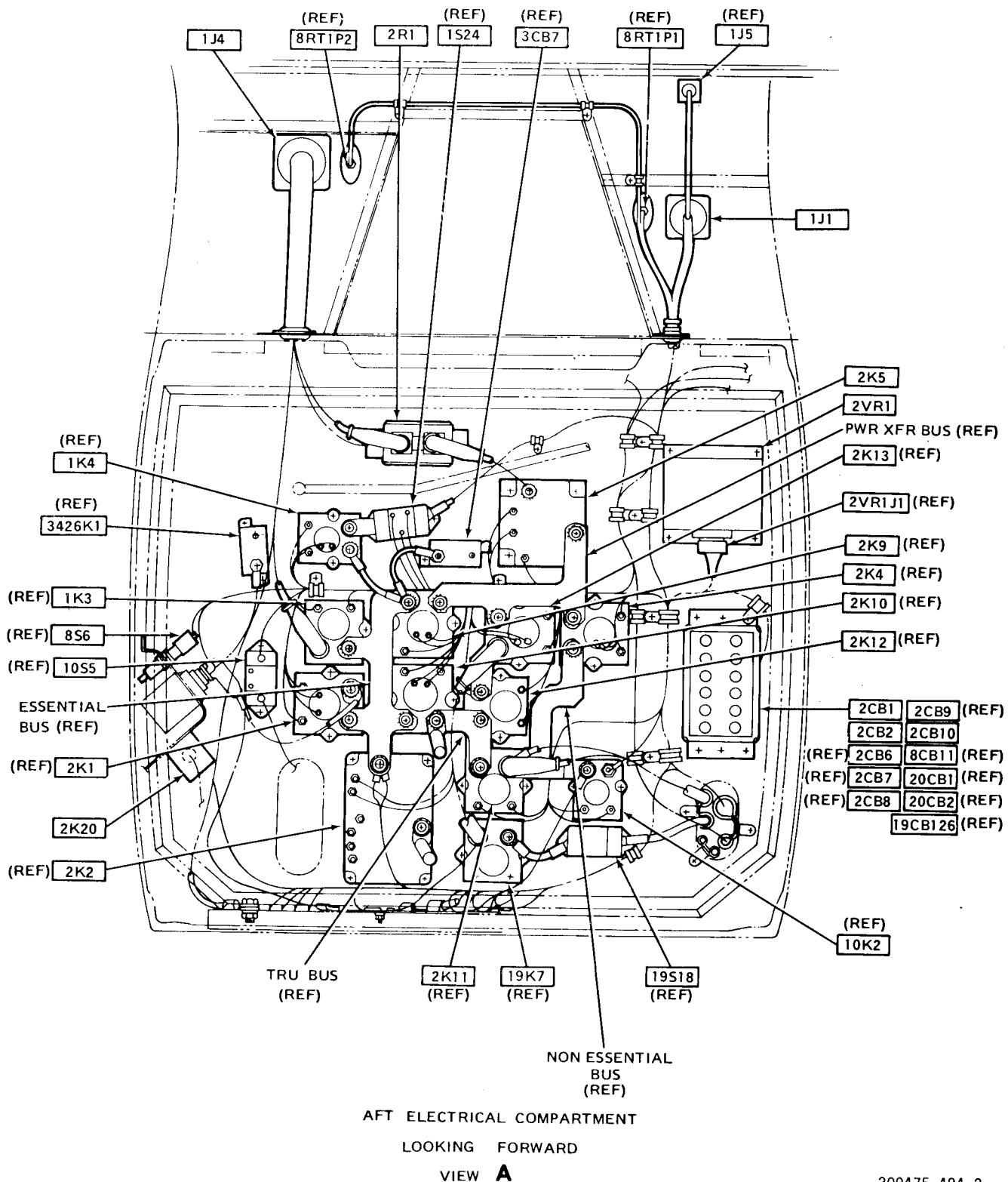
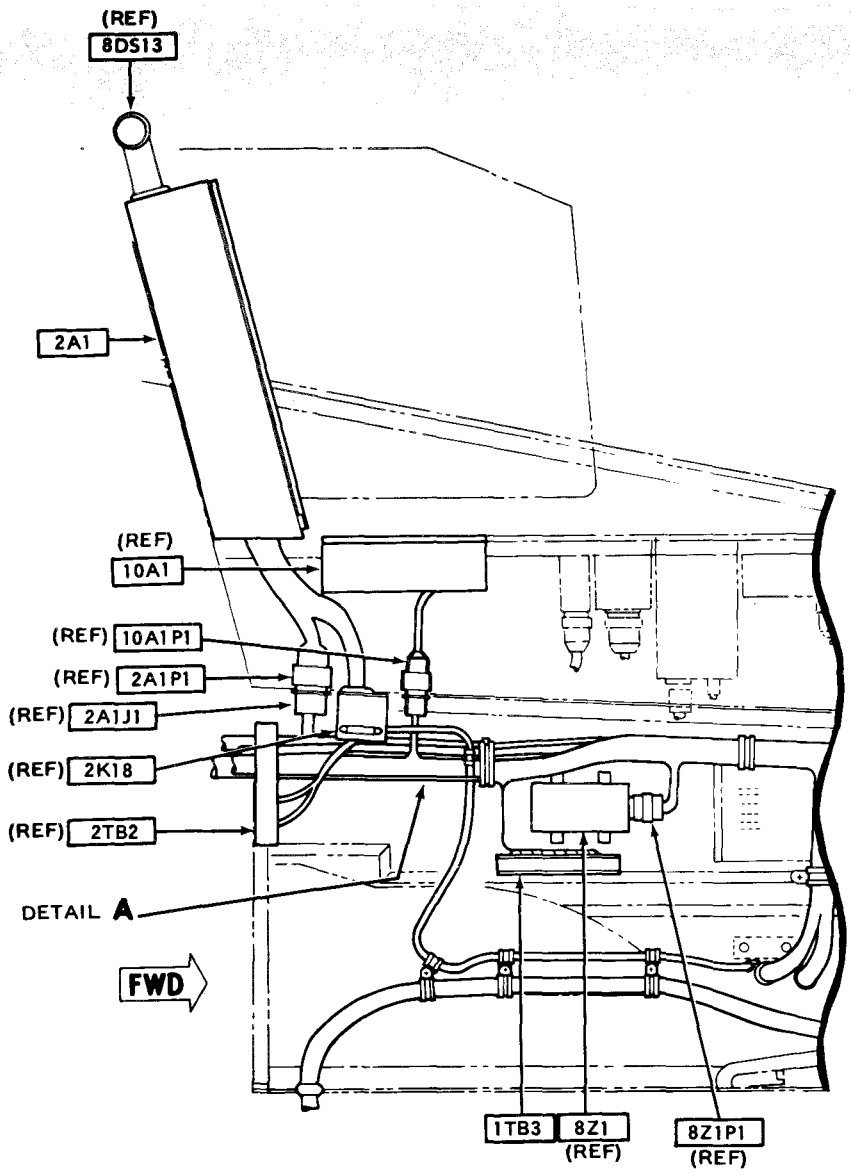


Figure F-48. **M** DC Generator Power System (Equipment Location) (Sheet 1 of 10)

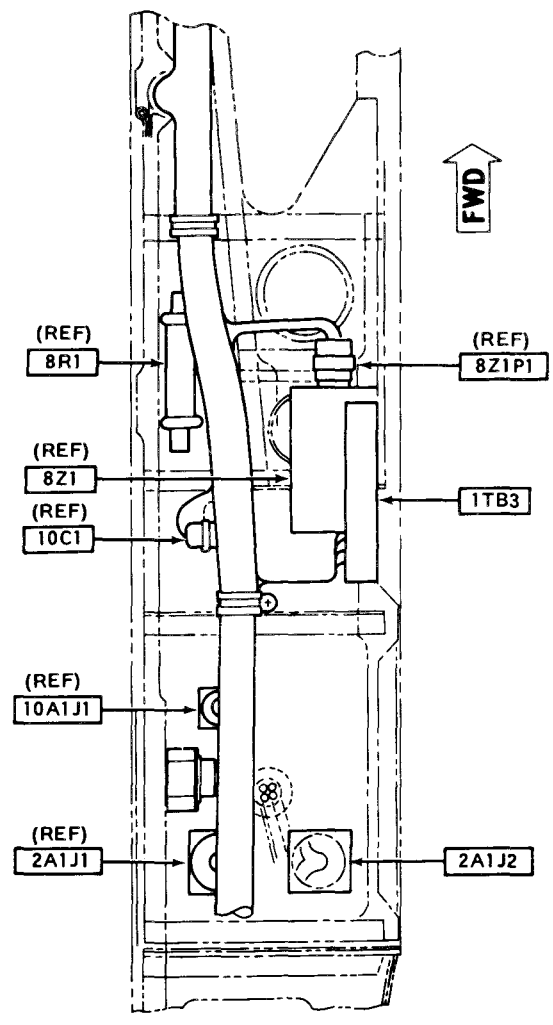


209475-484-2

Figure F-48. **M** DC Generator Power System (Equipment Location) (Sheet 2 of 10)



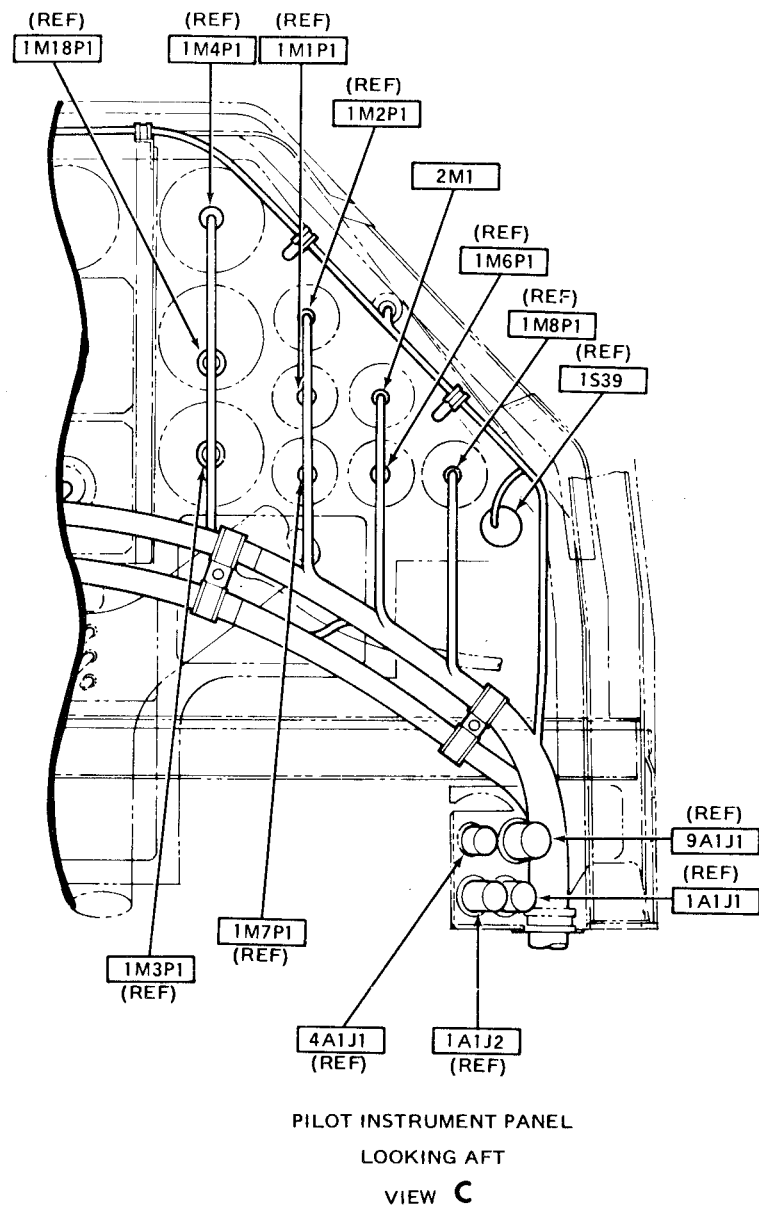
PILOT STATION
RH SIDE LOOKING INBD
VIEW B



PILOT STATION
RH SIDE
LOOKING UP
DETAIL A

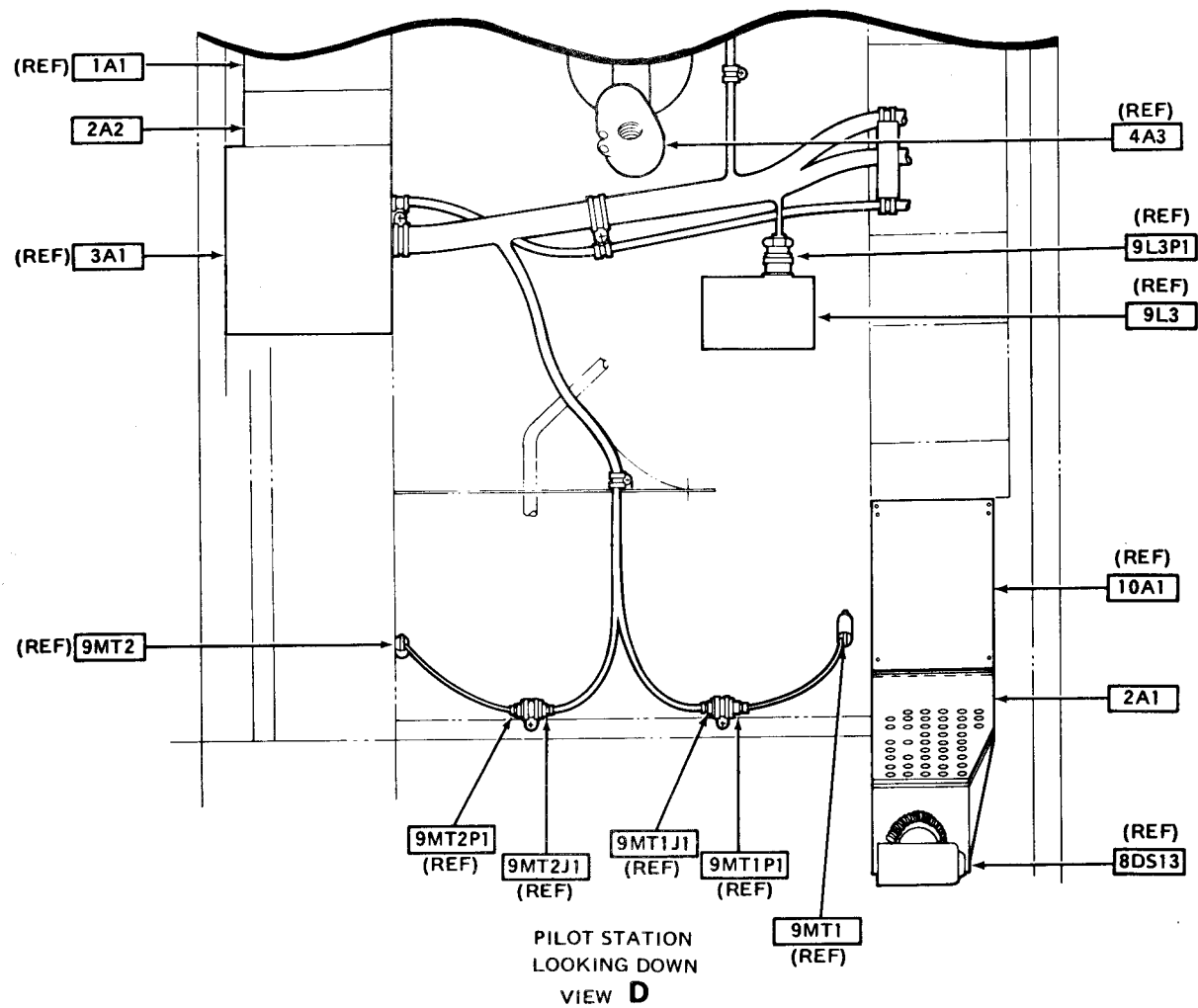
Figure F-48. DC Generator Power System (Equipment Location) (Sheet 3 of 10)

209475-484-3



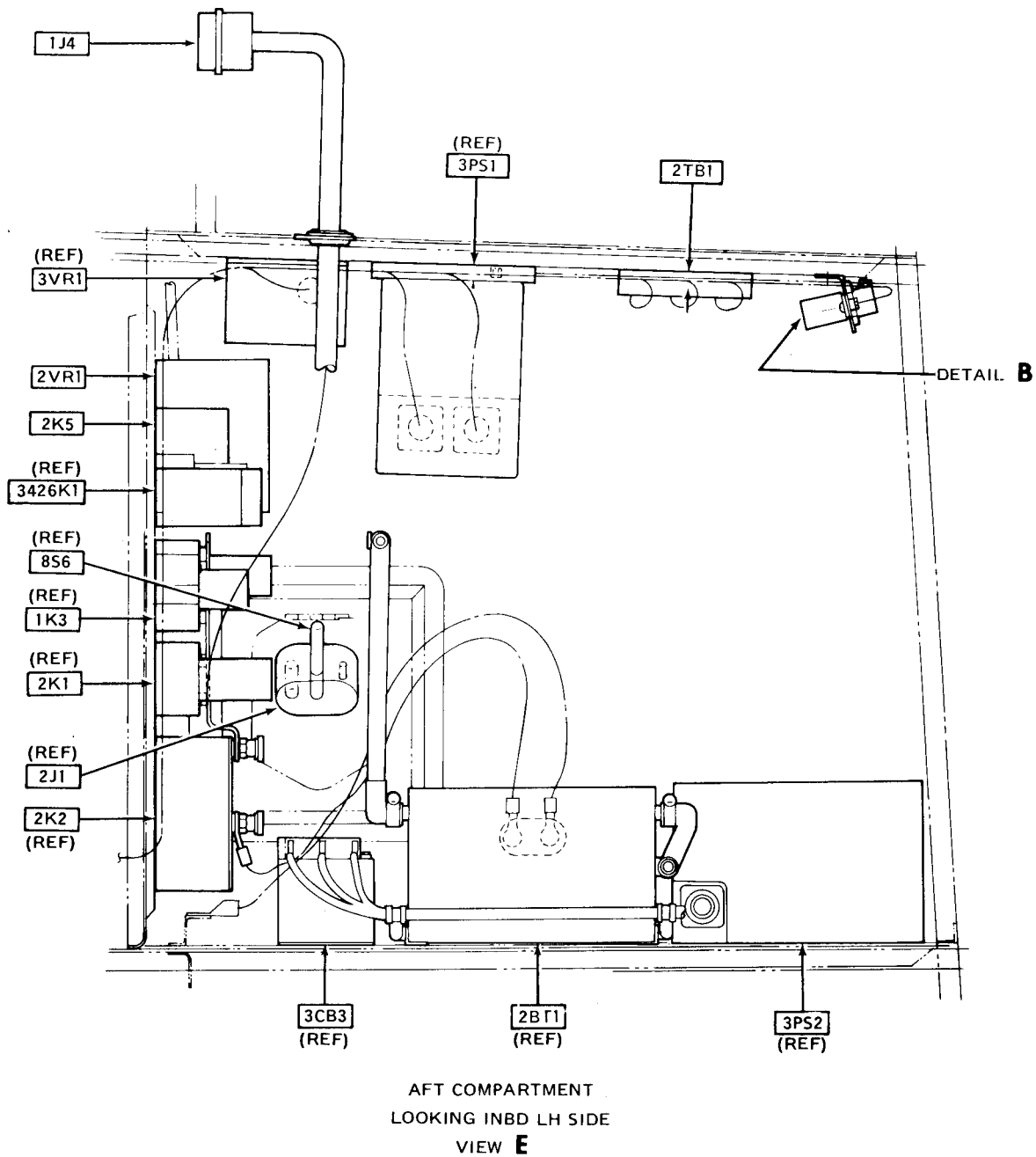
209475-484-4

Figure F-48. **M** DC Generator Power System (Equipment Location) (Sheet 4 of 10)



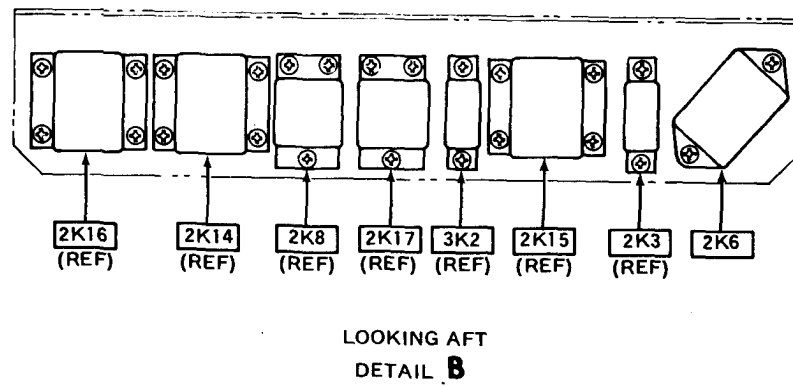
209475-484-5

Figure F-48. **M** DC Generator Power System (Equipment Location) (Sheet 5 of 10)



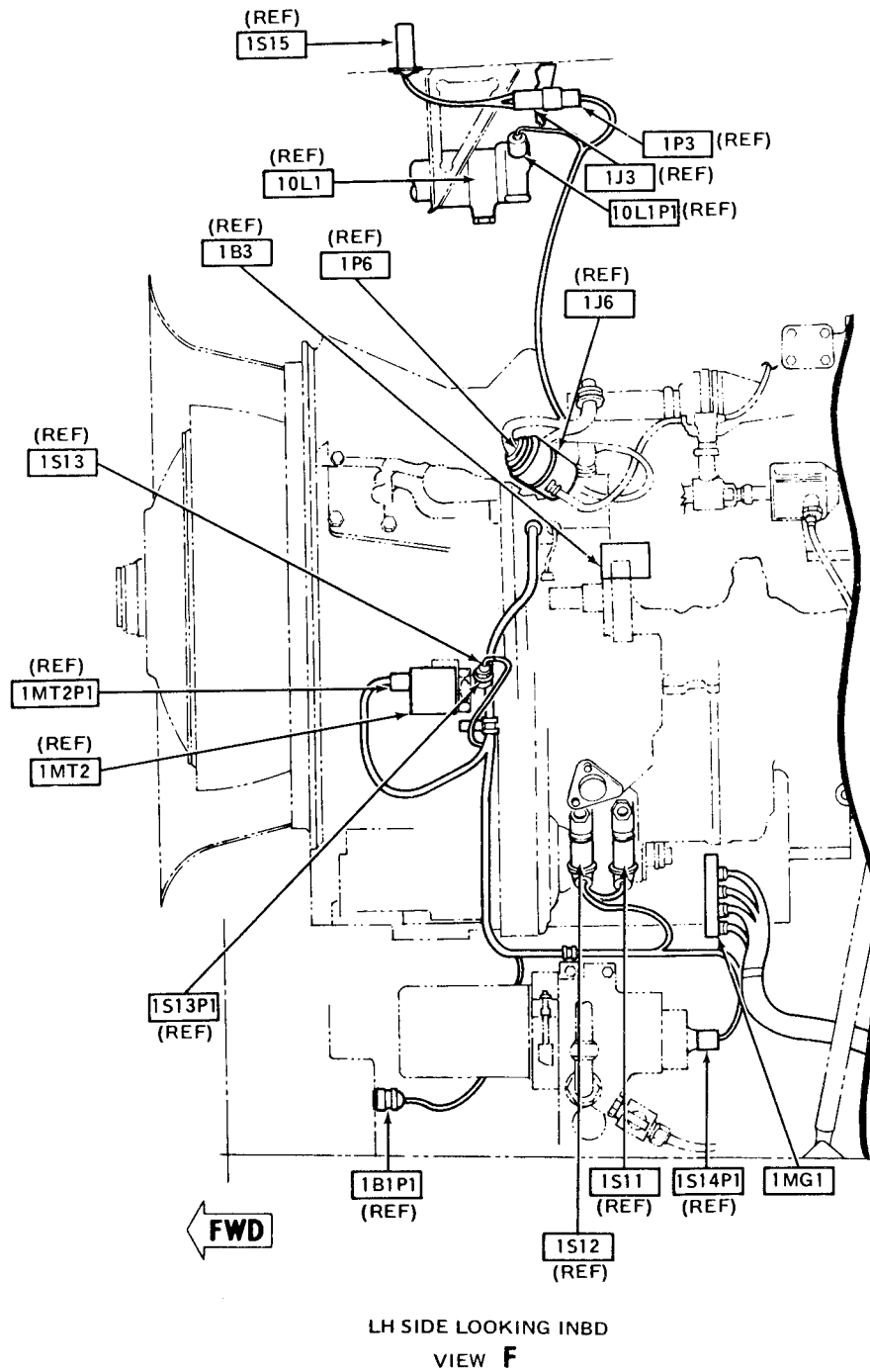
209475-484-6

Figure F-48. **M** DC Generator Power System (Equipment Location) (Sheet 6 of 10)



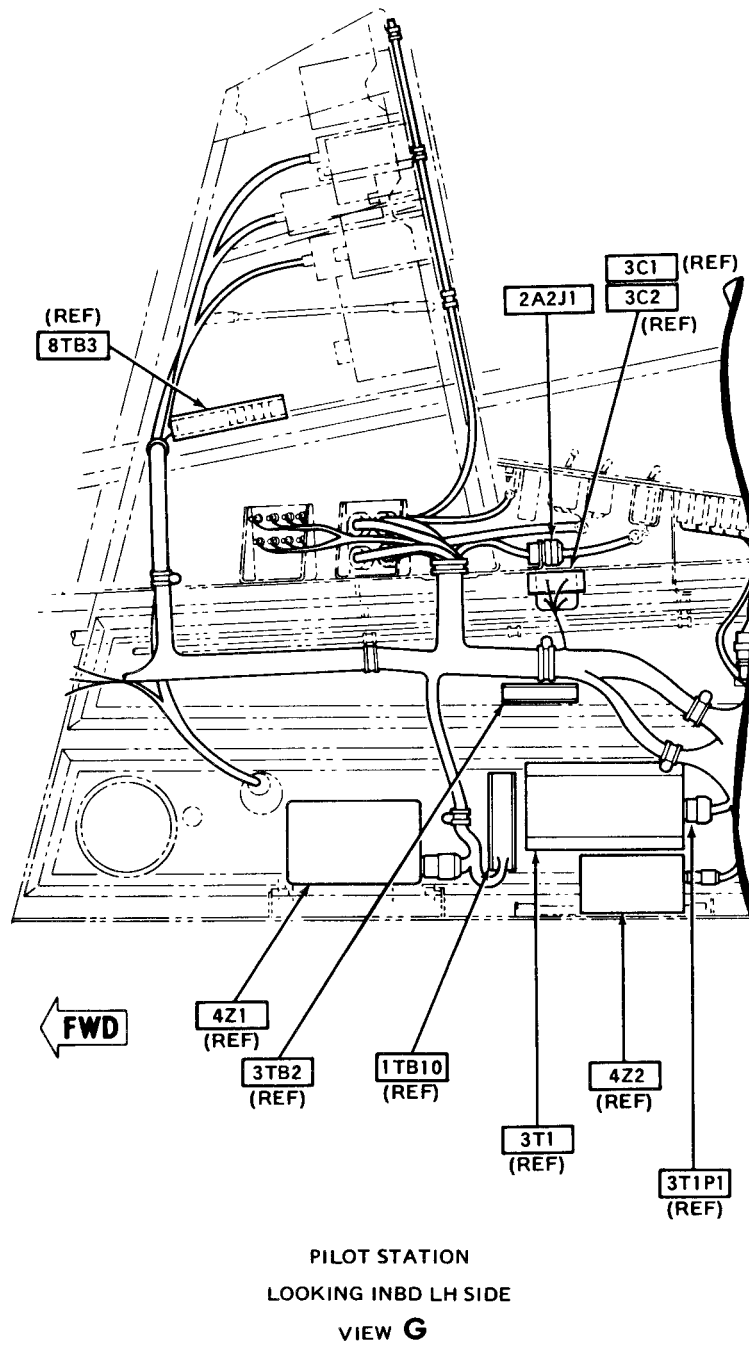
209475-484-7

Figure F-48. **M** DC Generator Power System (Equipment Location) (Sheet 7 of 10)



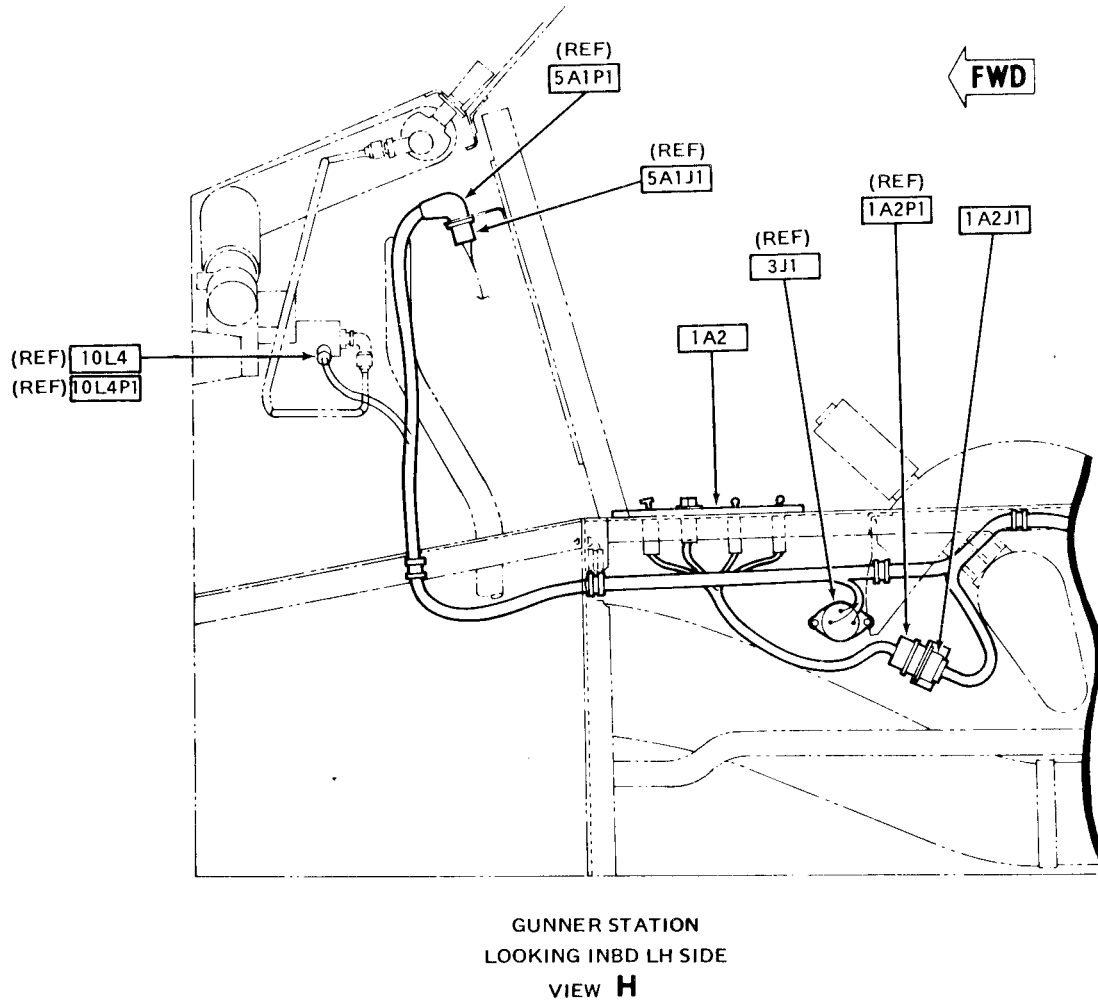
209475-484-8

Figure F-48. **M**DC Generator Power System (Equipment Location) (Sheet 8 of 10)



209475-484-9

Figure F-48. **M** DC Generator Power System (Equipment Location) (Sheet 9 of 10)



209475-484-10

Figure F-48. **M** DC Generator Power System (Equipment Location) (Sheet 10 of 10)

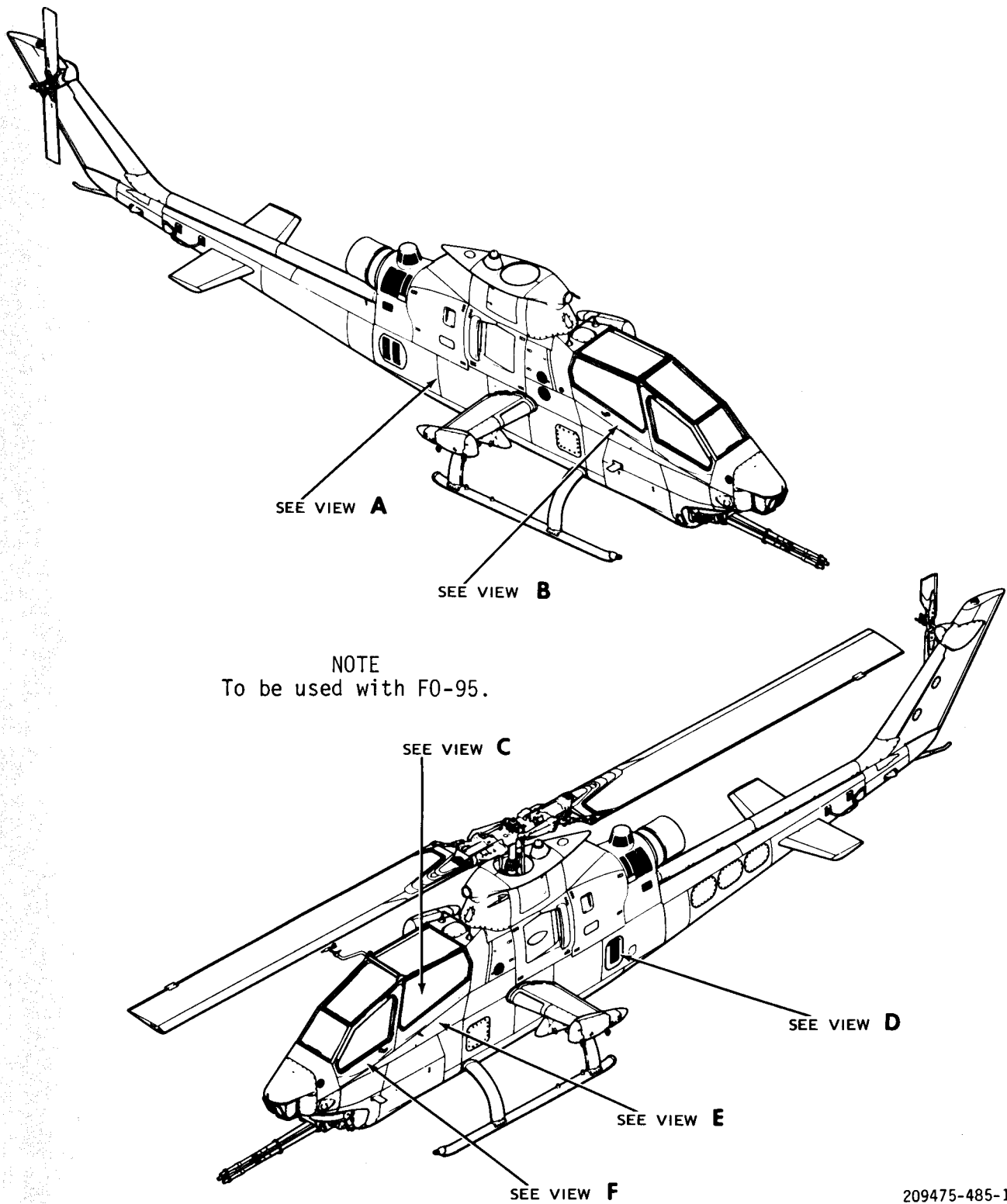
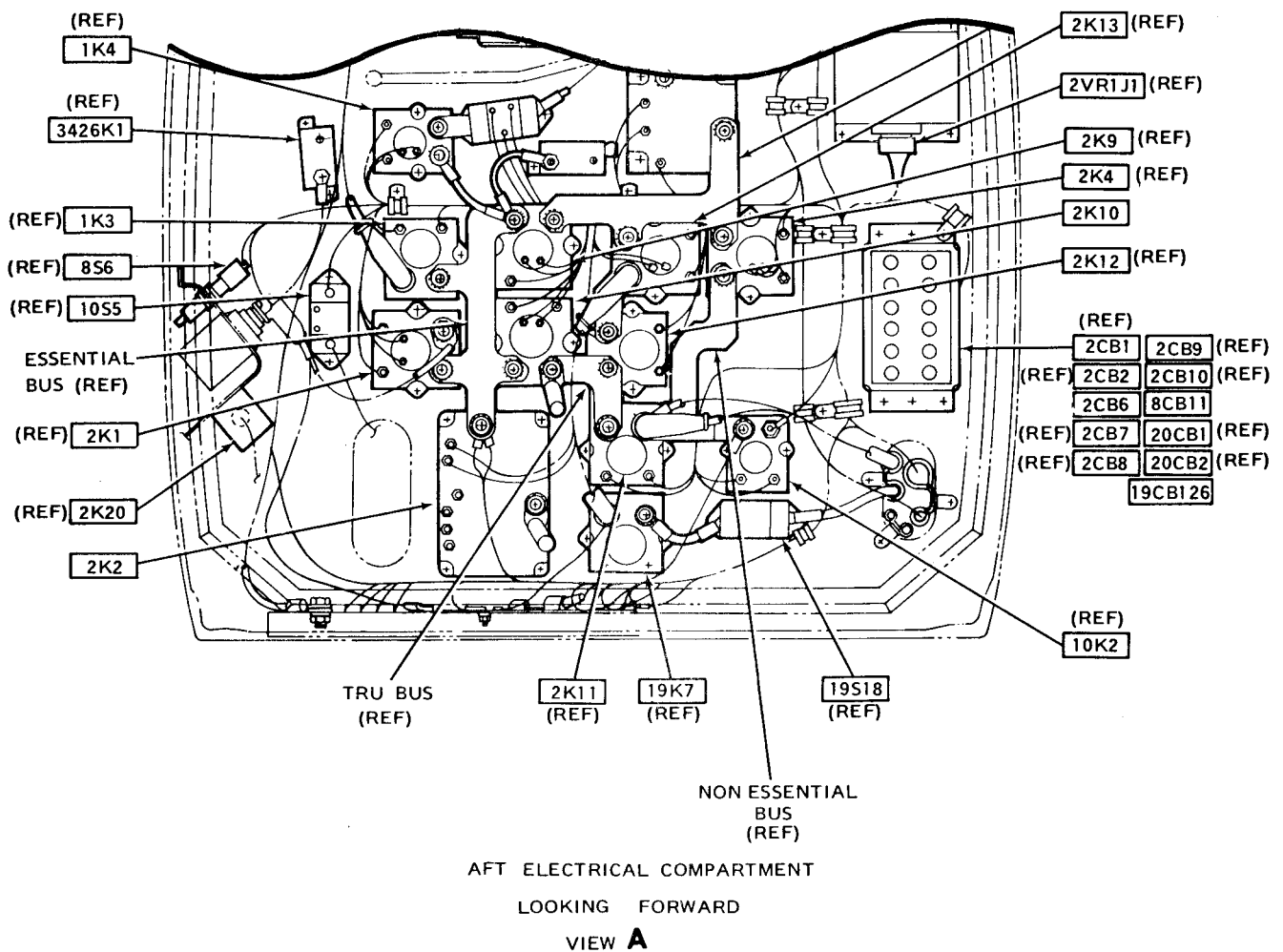


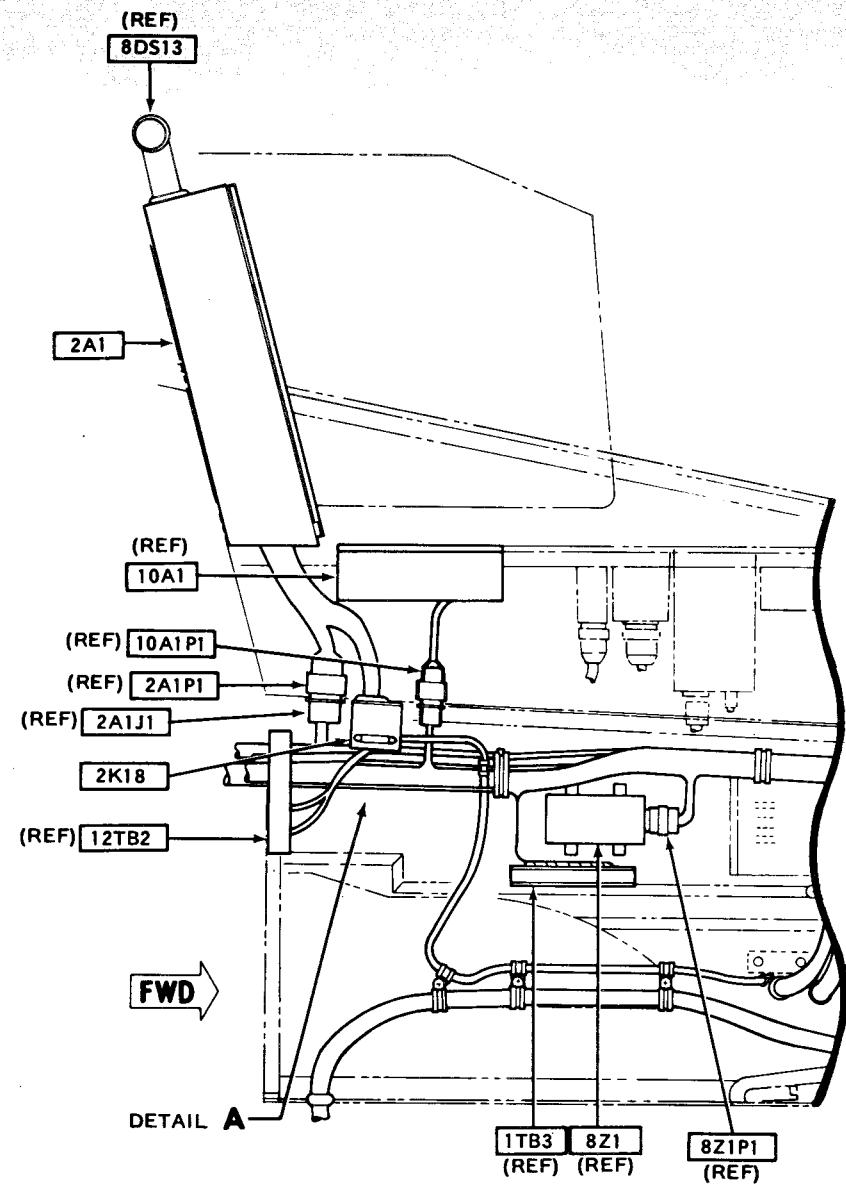
Figure F-49. **M** Battery System (Equipment Location) (Sheet 1 of 7)



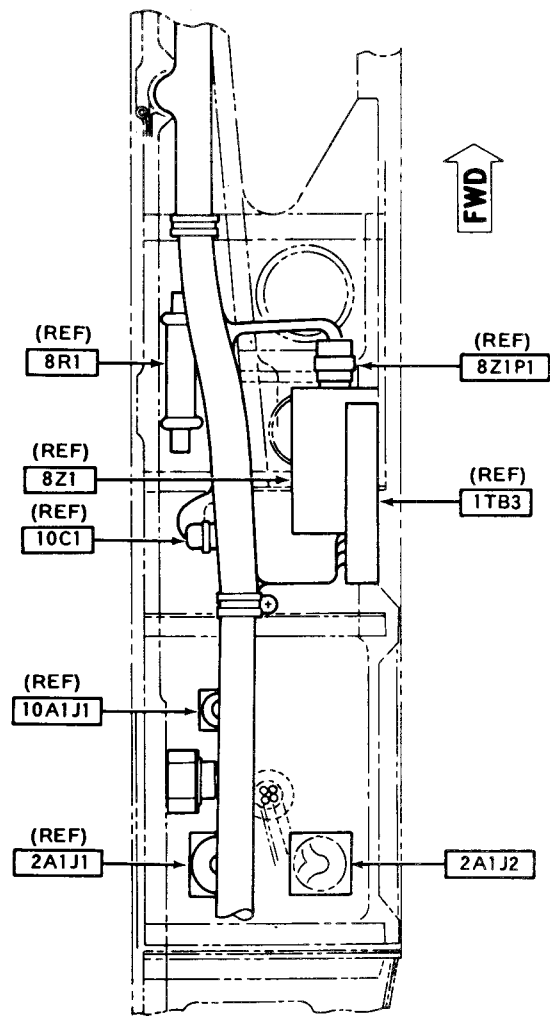
209475-485-2

Figure F-49. **M** Battery System (Equipment Location) (Sheet 2 of 7)

Figure F-49. **M** Battery System (Equipment Location) (Sheet 3 of 7)

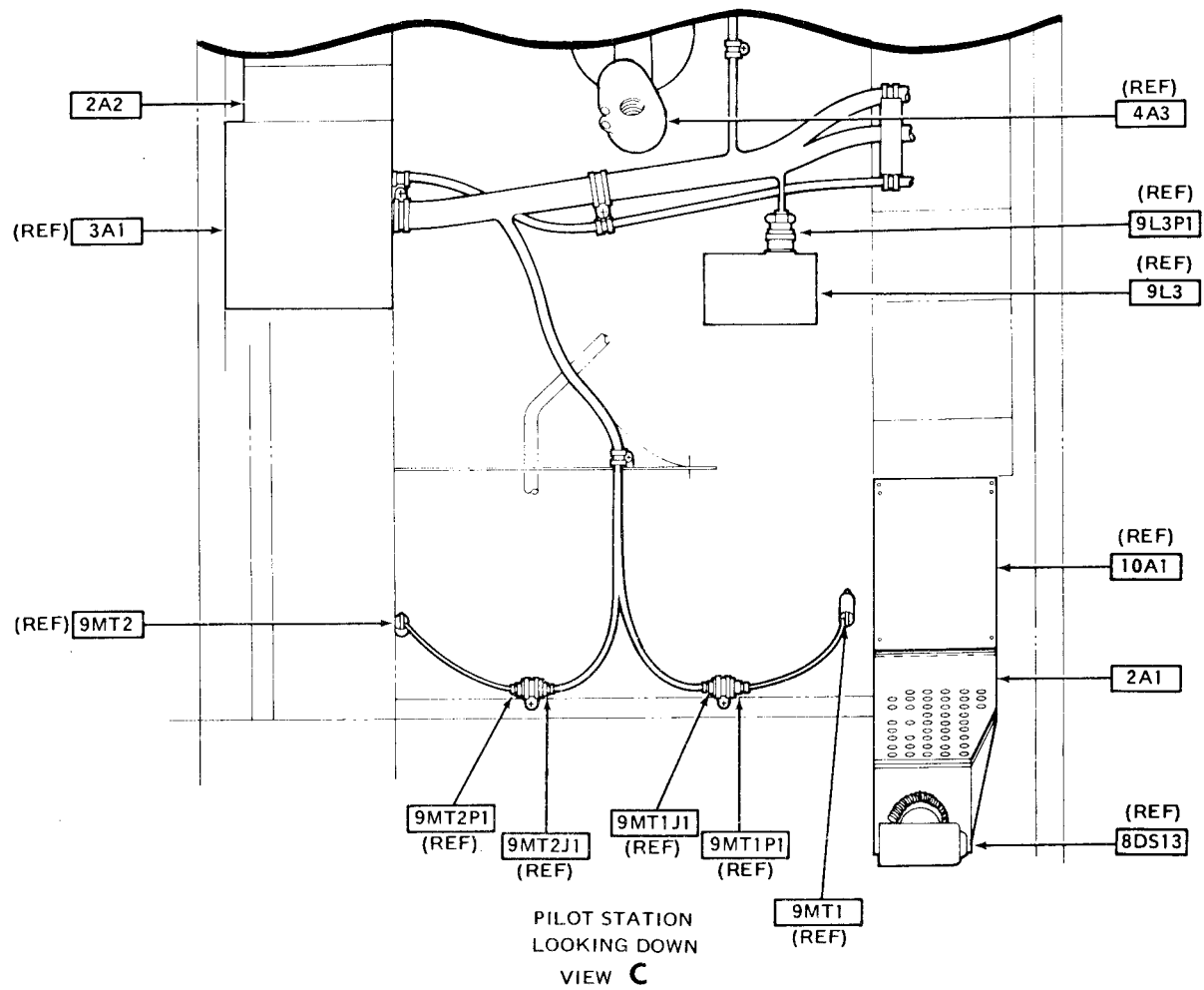


PILOT STATION
RH SIDE LOOKING INBD
VIEW **B**



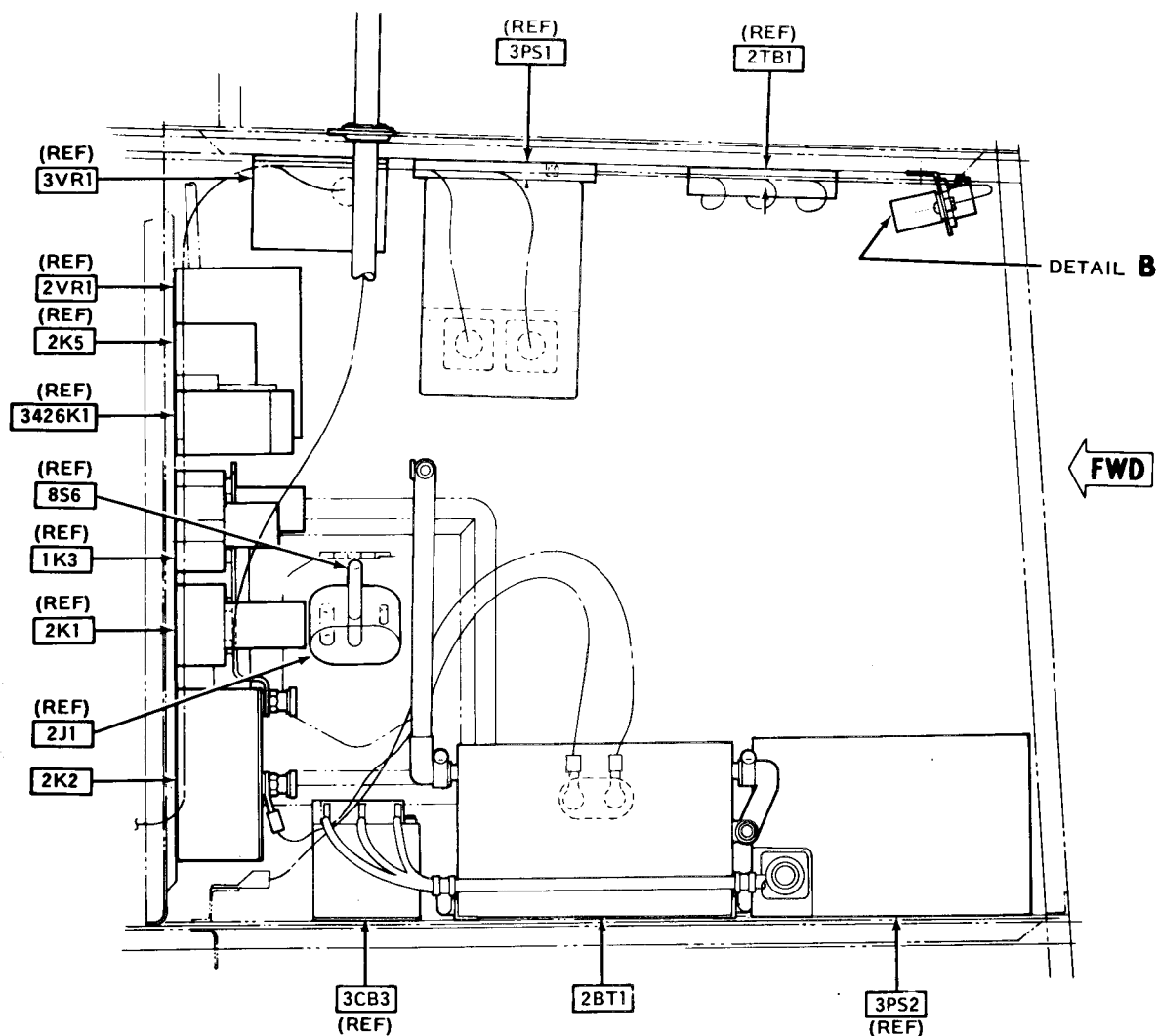
PILOT STATION
RH SIDE
LOOKING UP
DETAIL **A**

209475-485-3

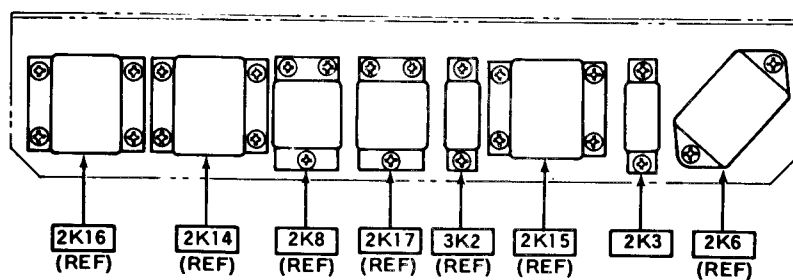


209475-485-4

Figure F-49. ^M Battery System (Equipment Location) (Sheet 4 of 7)



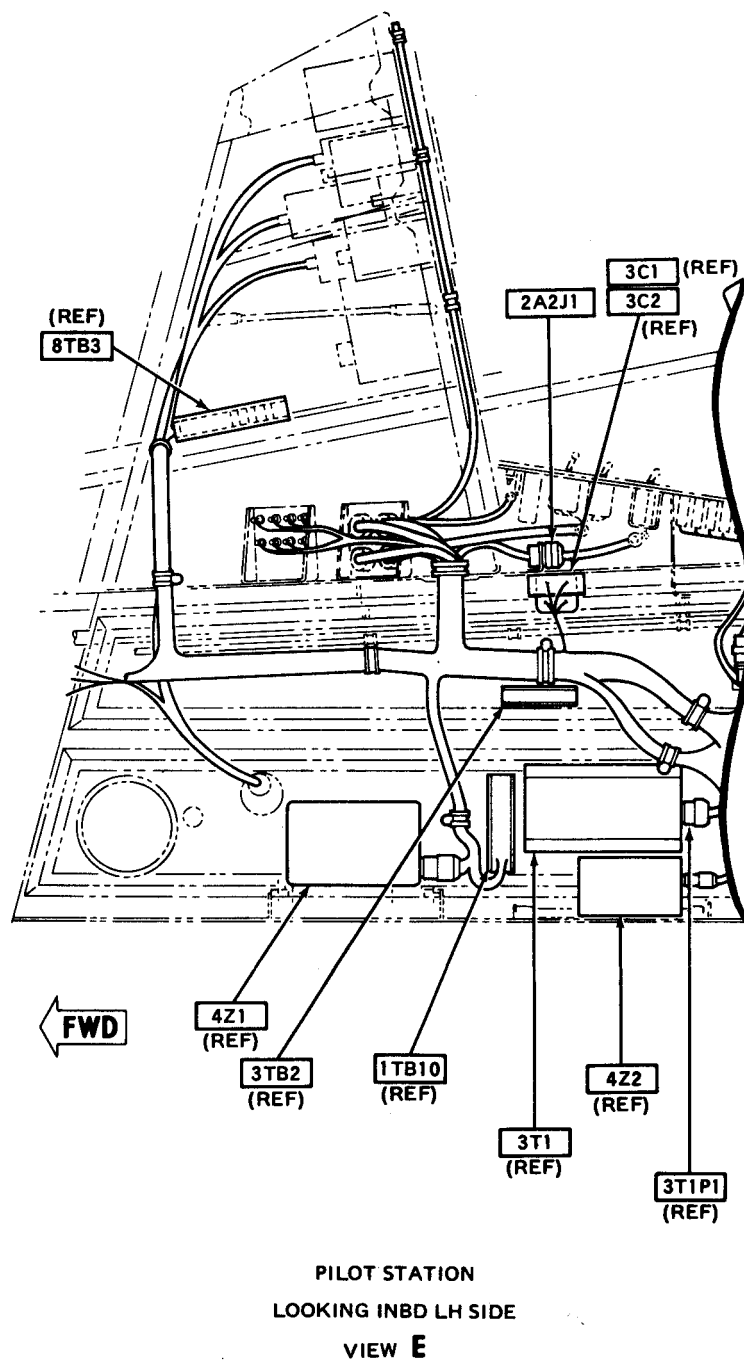
AFT COMPARTMENT
LOOKING INBD LH SIDE
VIEW D



LOOKING AFT
DETAIL B

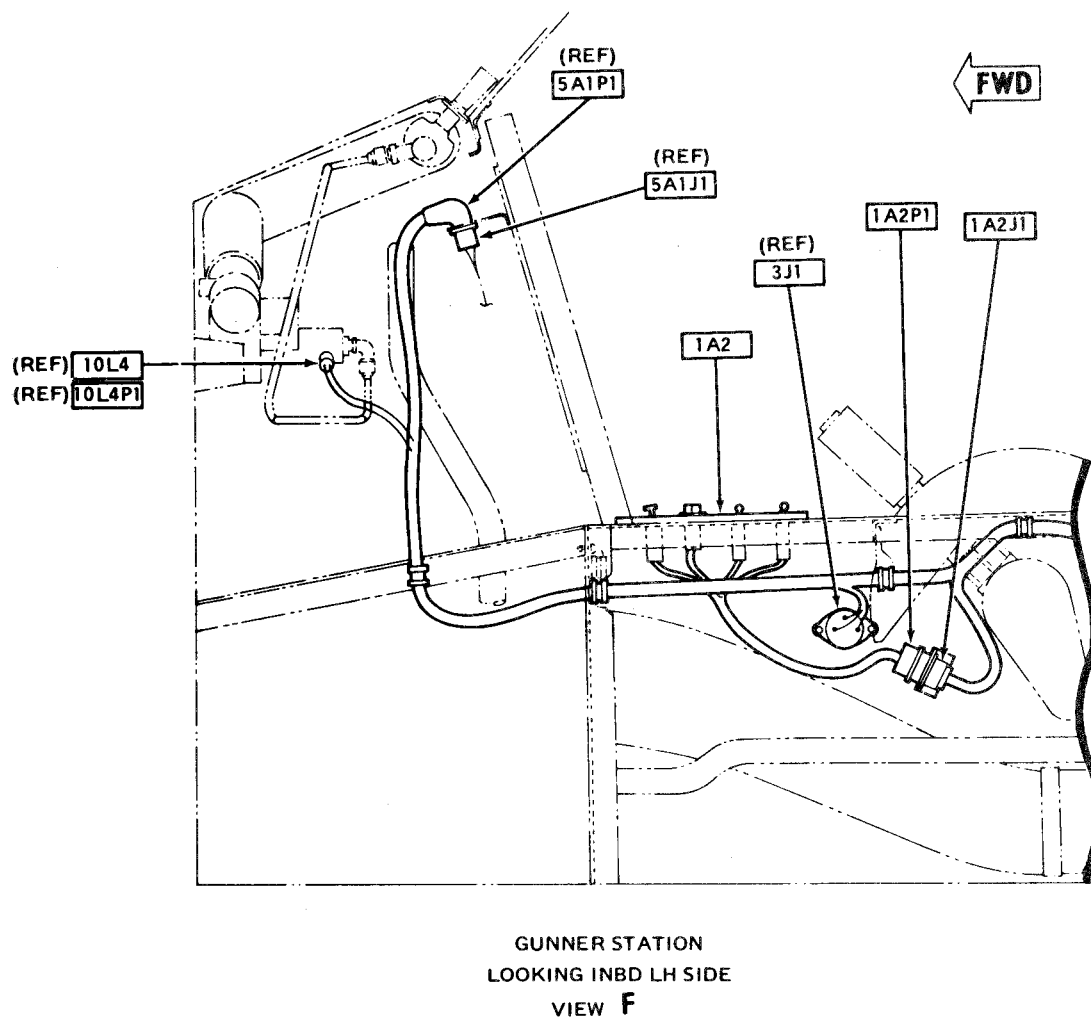
209475-485-5

Figure F-49. **M** Battery System (Equipment Location) (Sheet 5 of 7)



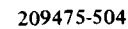
209475-485-6

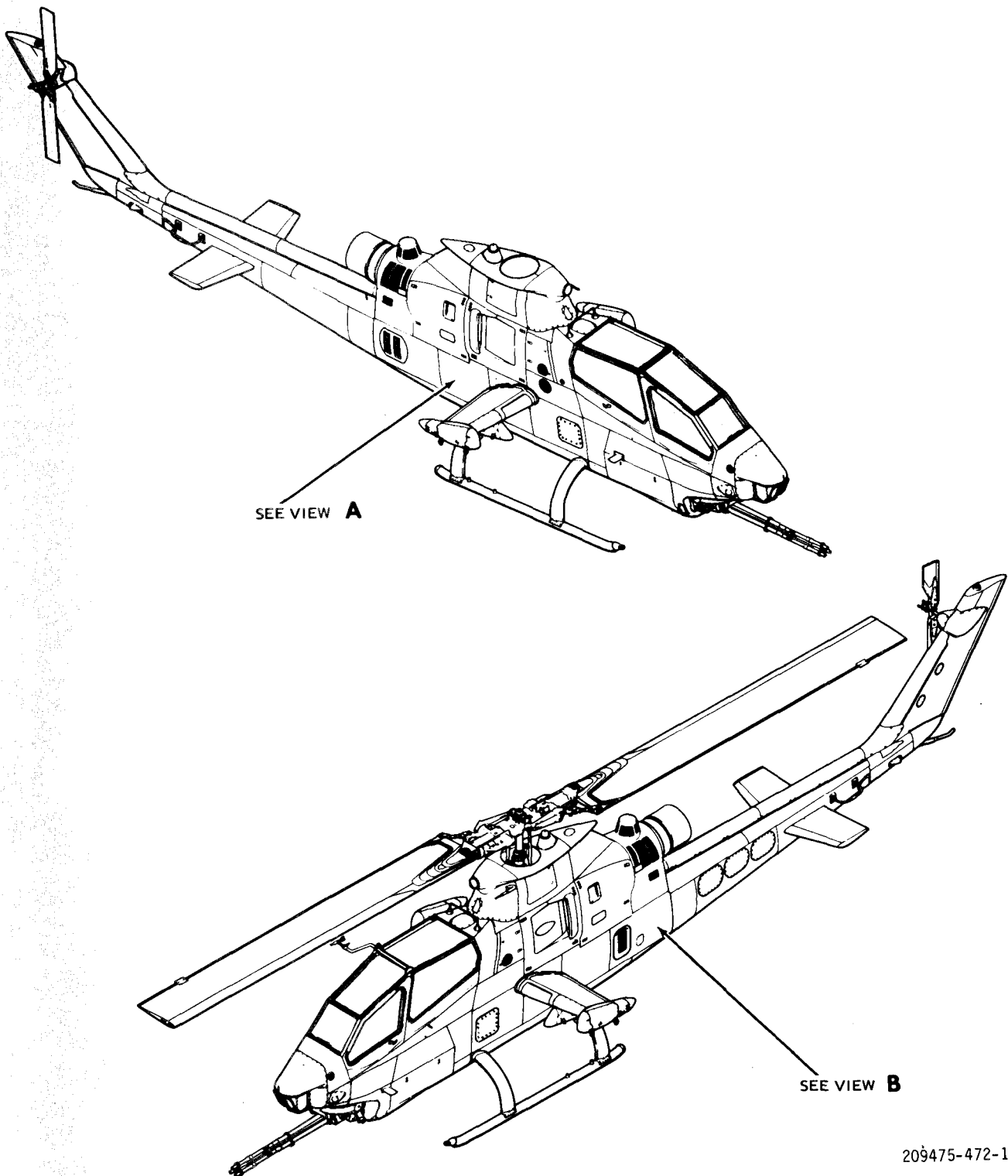
Figure F-49. **M** Battery System (Equipment Location) (Sheet 6 of 7)



209475-485-7

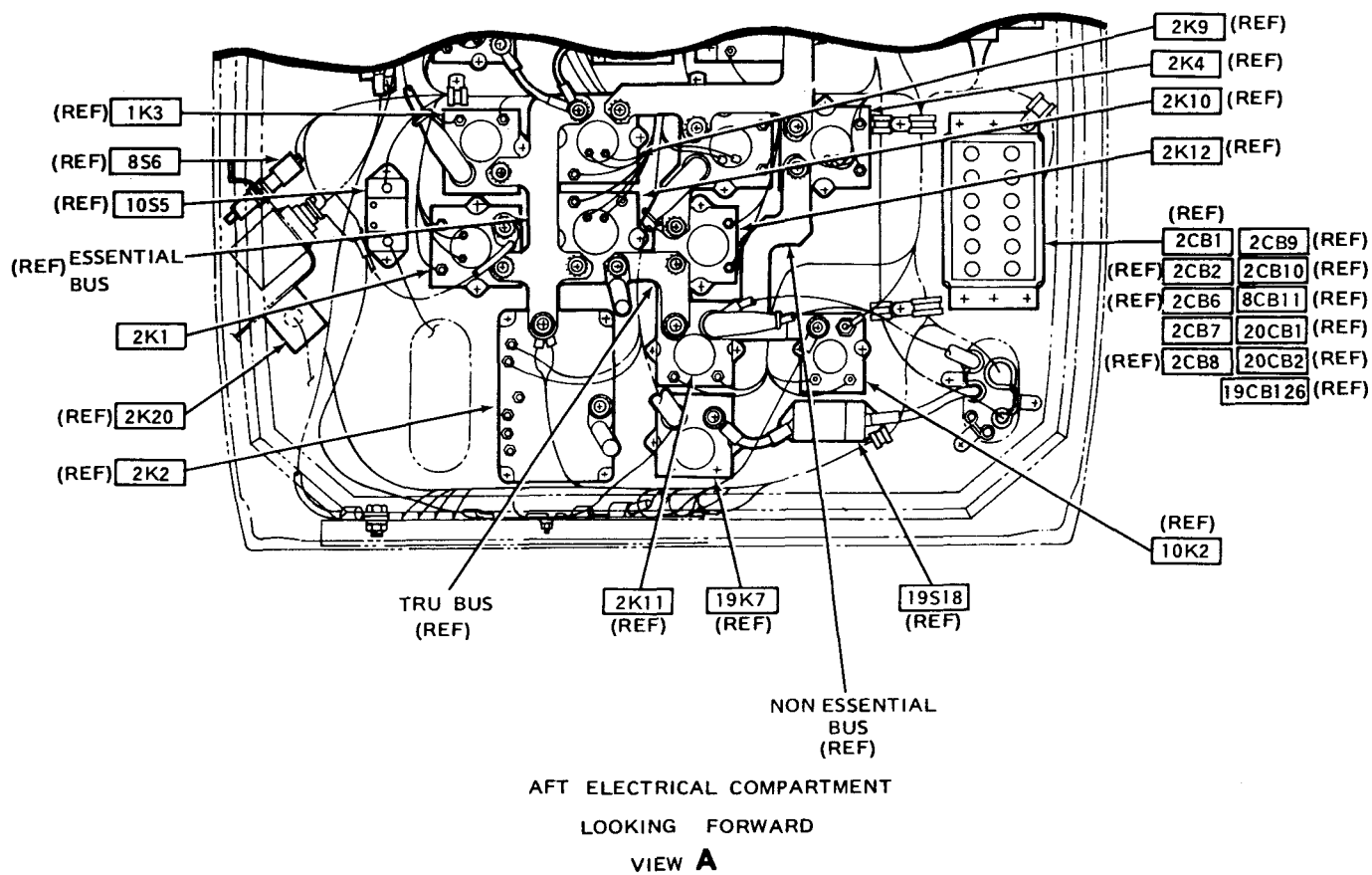
Figure F-49. **M** Battery System (Equipment Location) (Sheet 7 of 7)





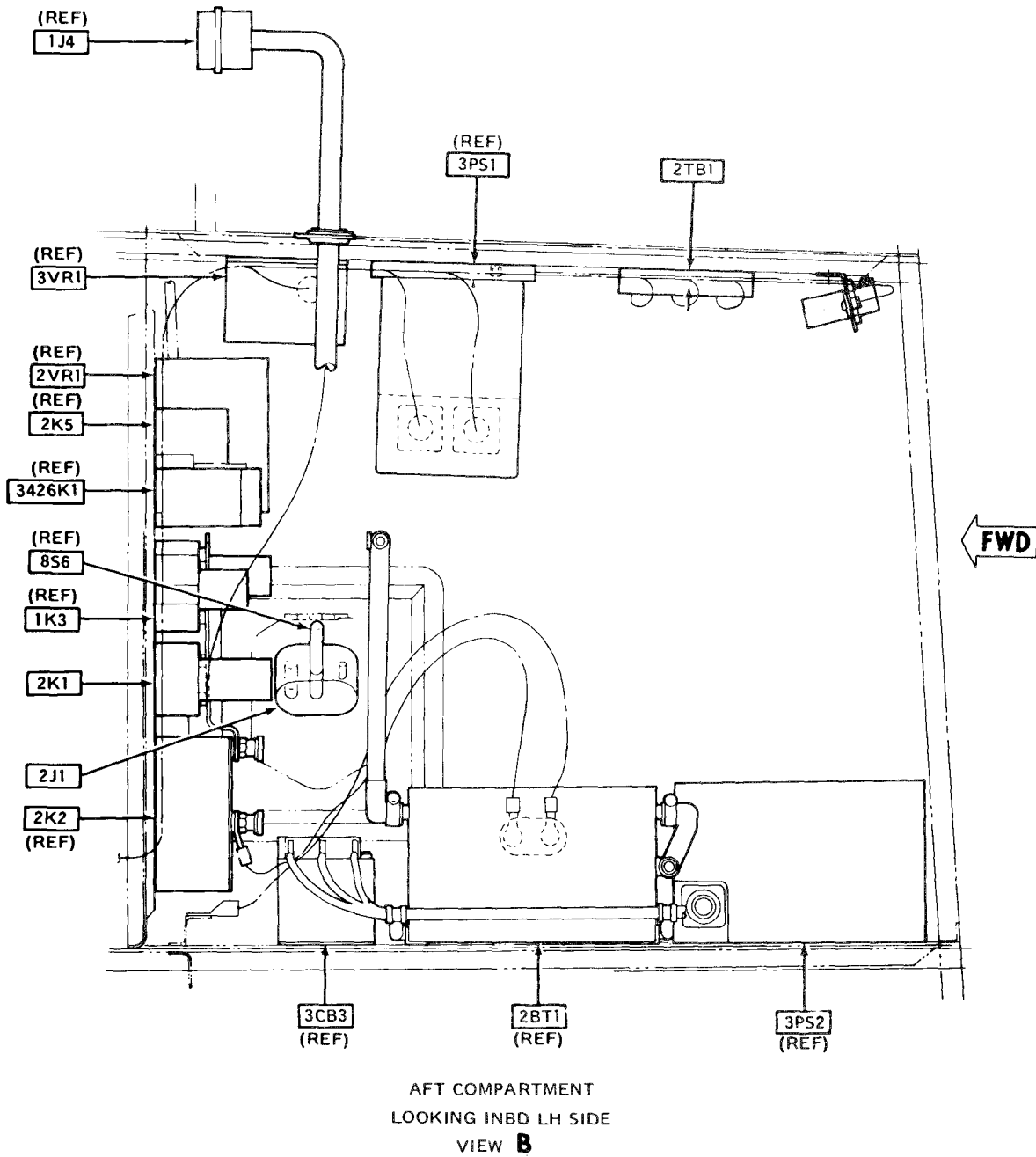
209475-472-1

Figure F-50. **M** External Power Provisions (Sheet 2 of 4)



209475-472-2

Figure F-50. M External Power Provisions (Sheet 3 of 4)



209475-472-3

Figure F-50. **M** External Power Provisions (Sheet 4 of 4)

F-187/(F-188 blank)

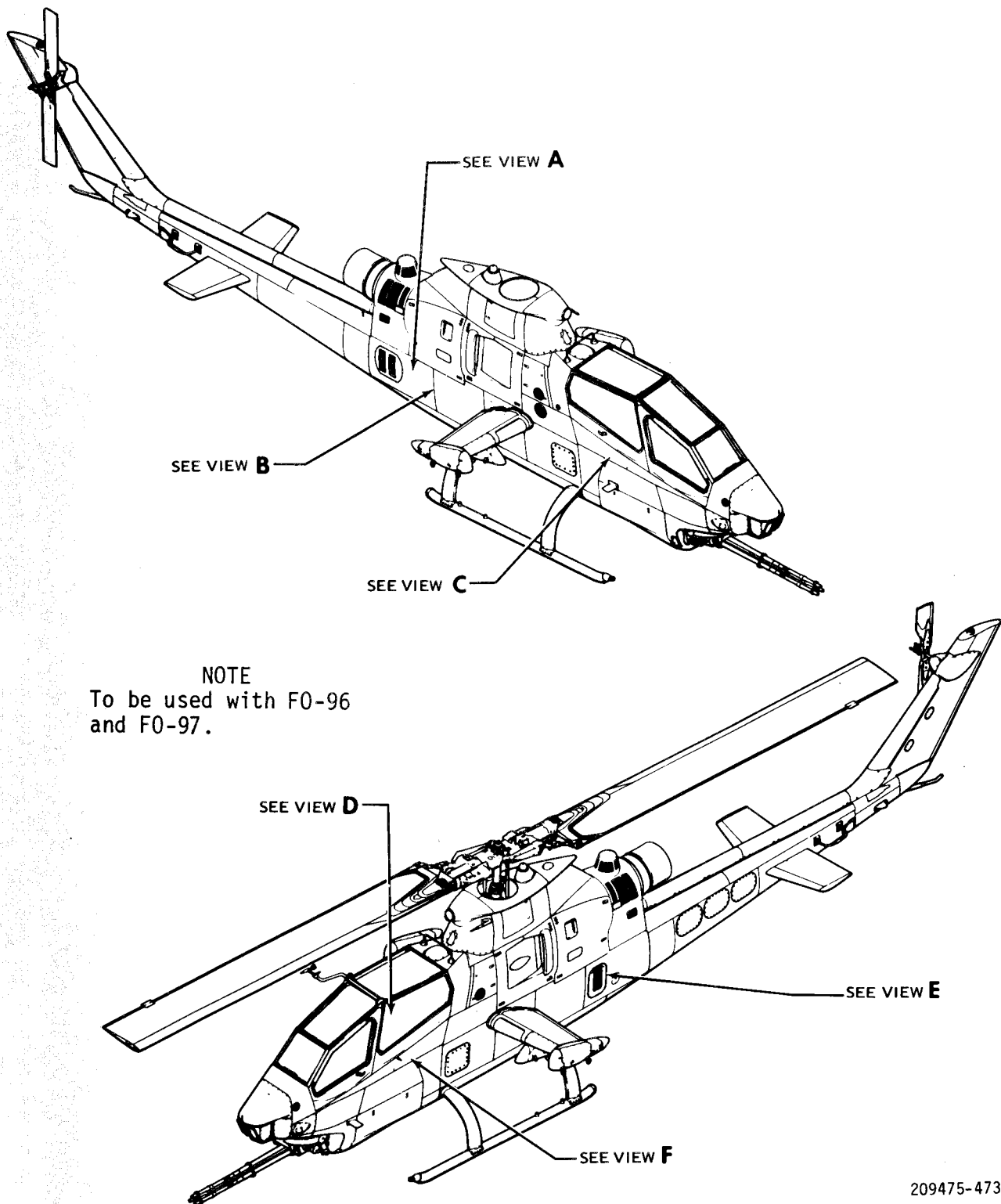
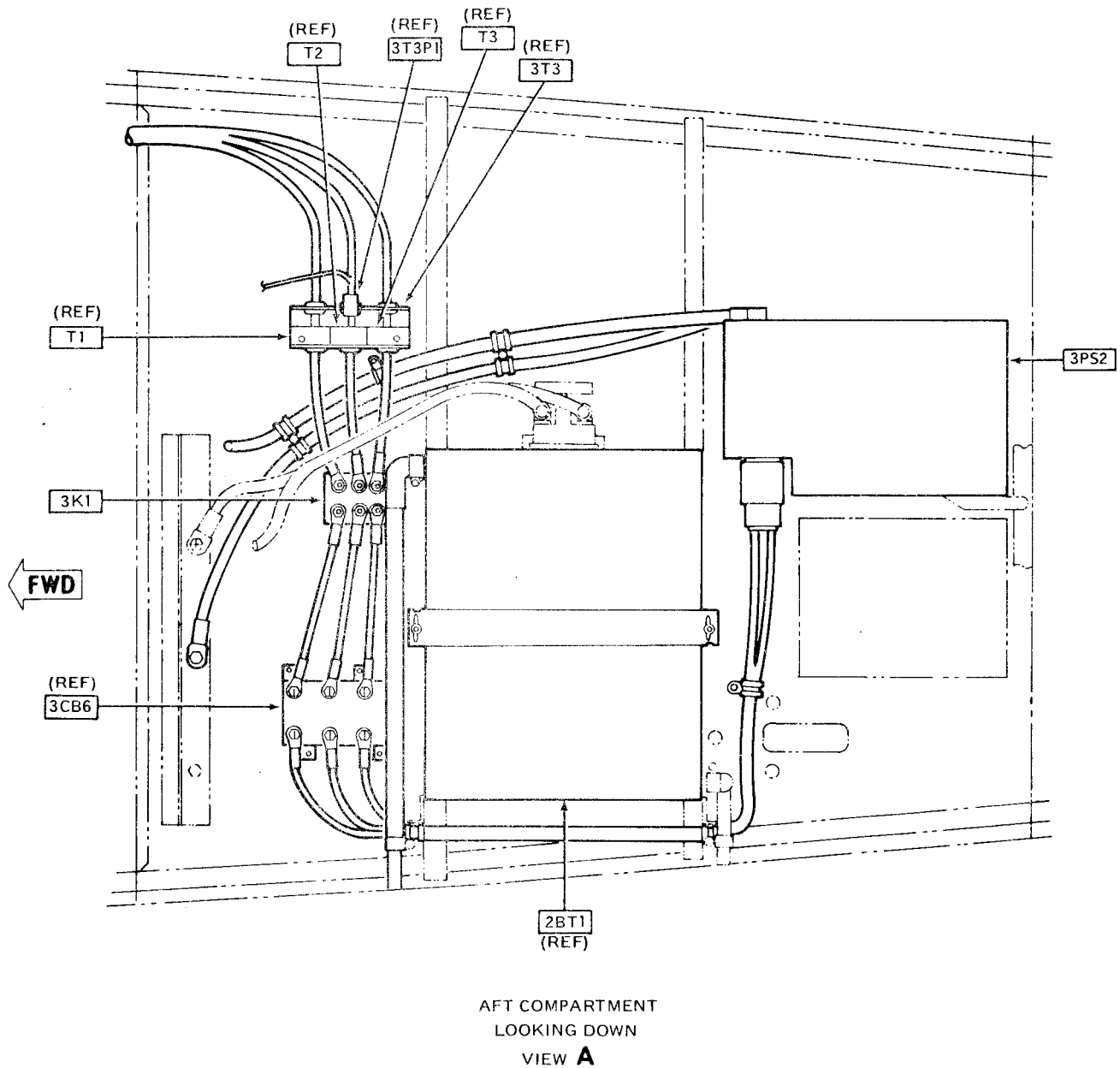
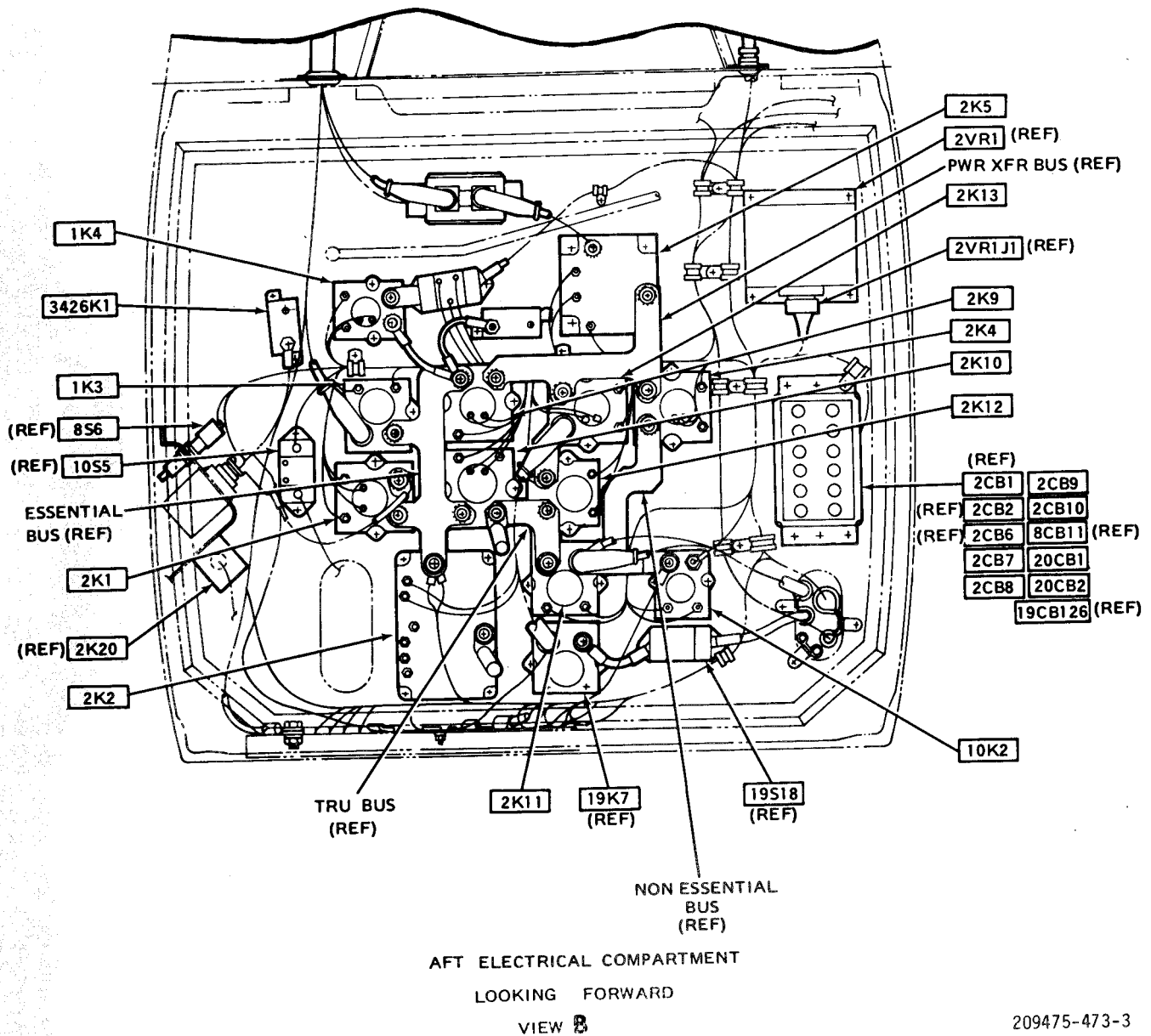


Figure F-51. **M** DC Power Distribution and Interconnect Logic (Equipment Location) (Sheet 1 of 7)



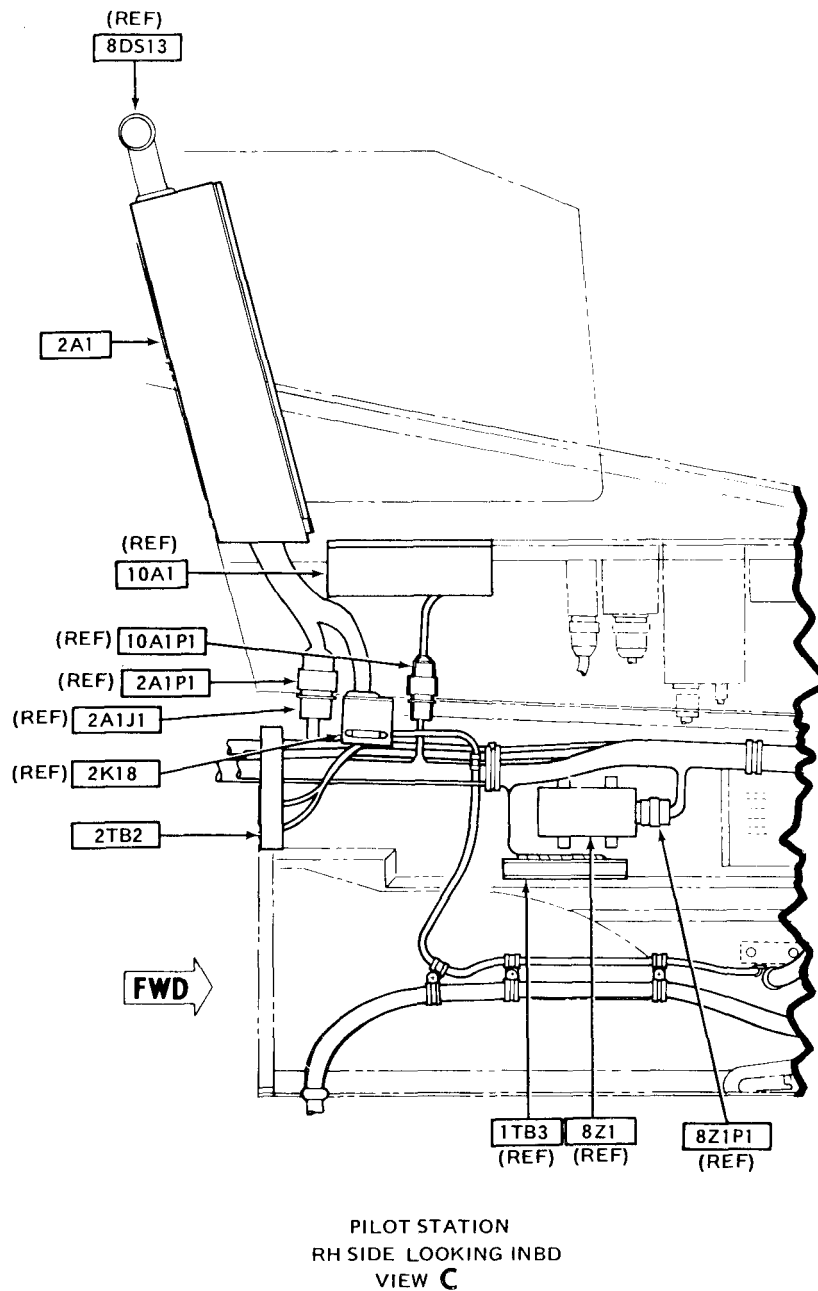
209475-473-2

Figure F-51. **M** DC Power Distribution and Interconnect Logic (Equipment Location) (Sheet 2 of 7)



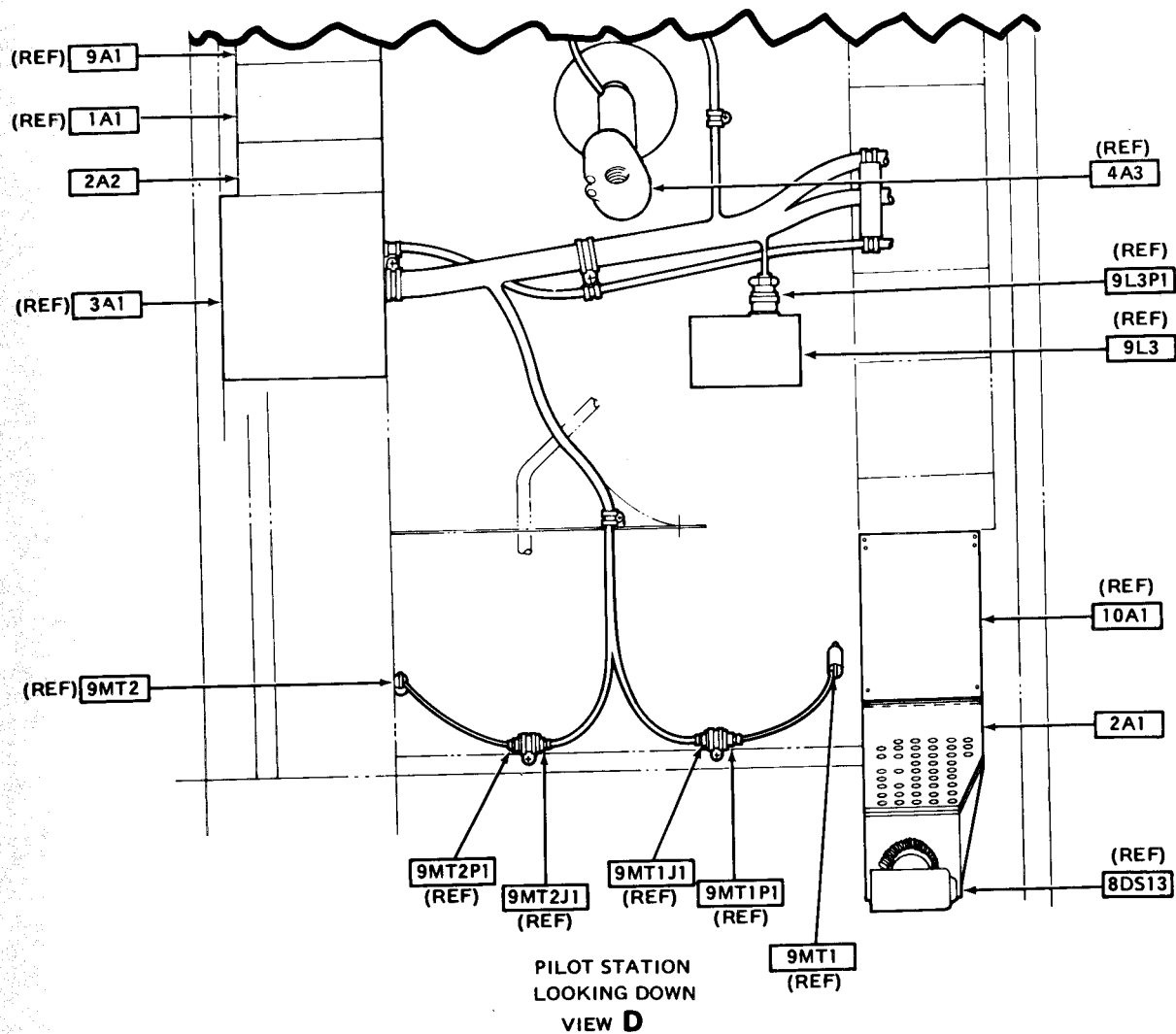
209475-473-3

Figure F-51. **M** DC Power Distribution and Interconnect Logic (Equipment Location)(Sheet 3 of 7)



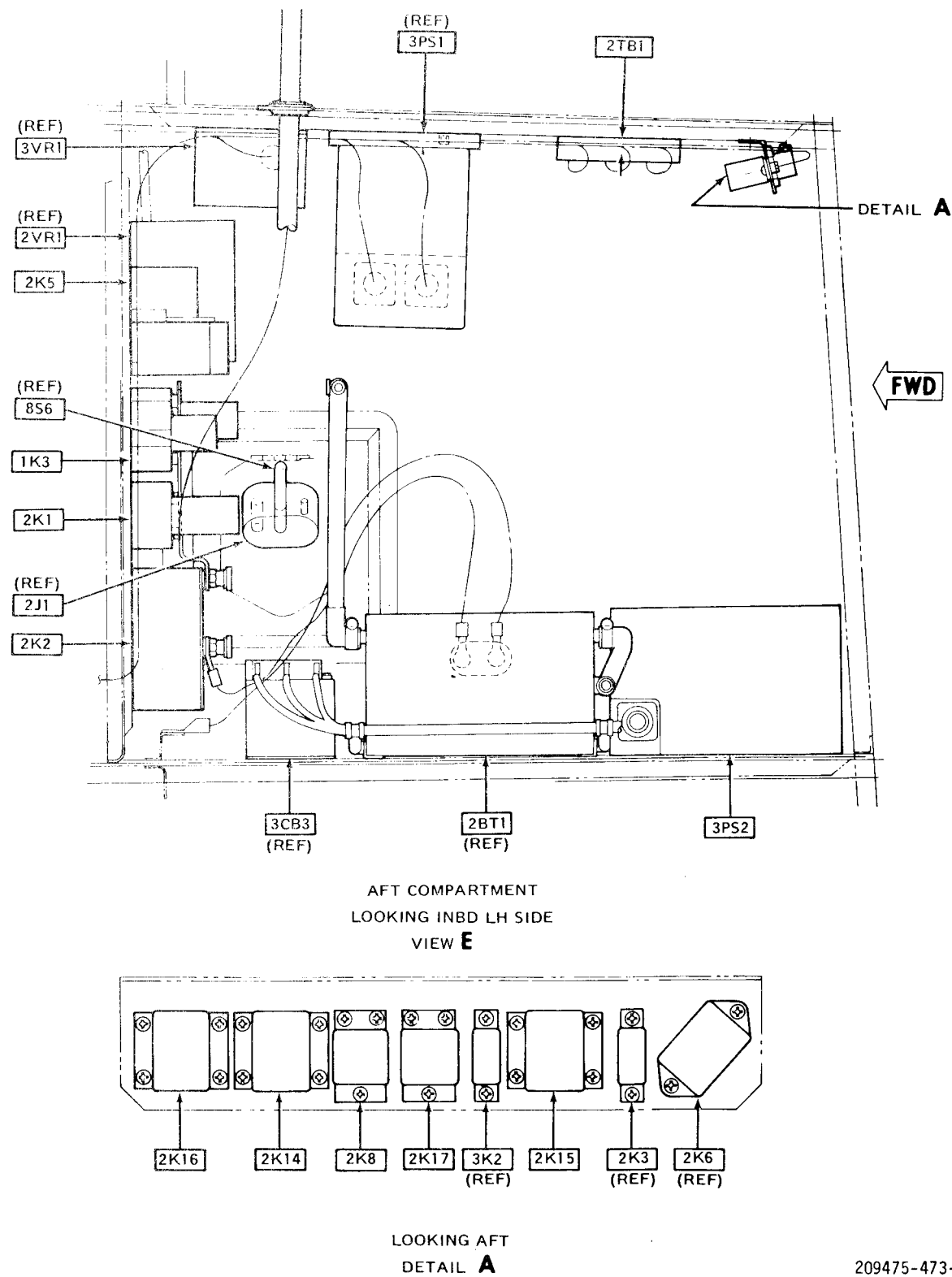
209475-473-4

Figure F-51. **M** DC Power Distribution and Interconnect Logic (Equipment Location) (Sheet 4 of 7)



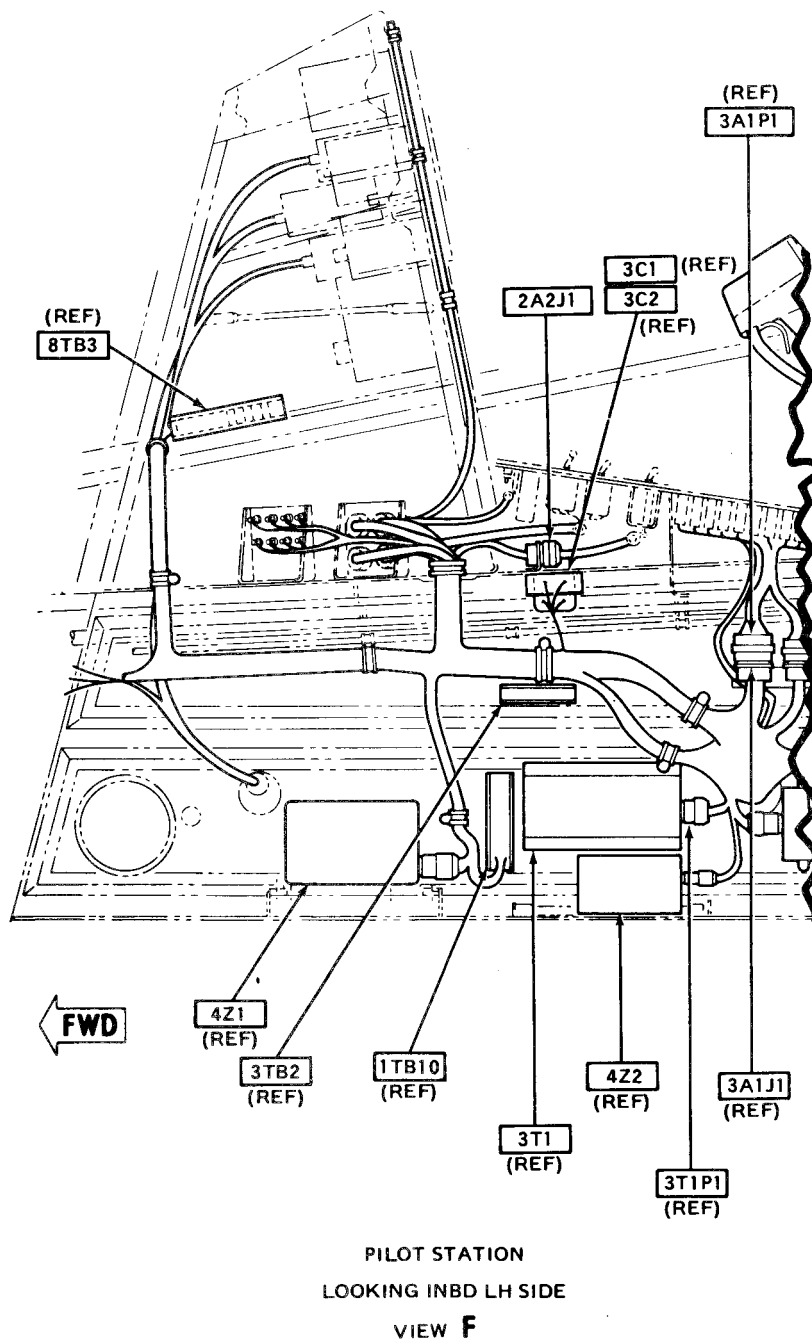
209475-473-5

Figure F-51. **M** DC Power Distribution and Interconnect Logic (Equipment Location) (Sheet 5 of 7)



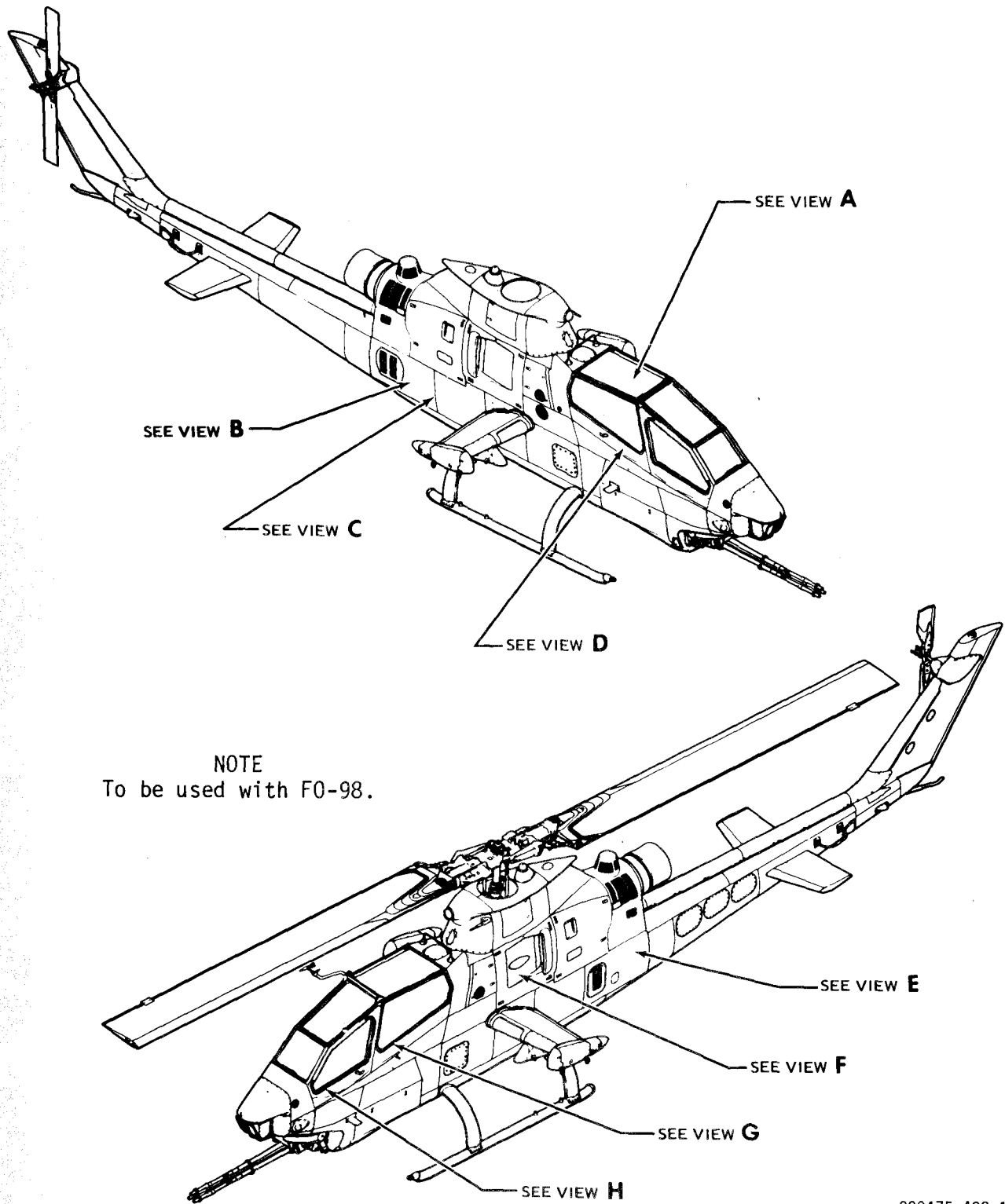
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Figure F-51. **M** DC Power Distribution and Interconnect Logic (Equipment Location) (sheet 6 of 7)



209475-473-7

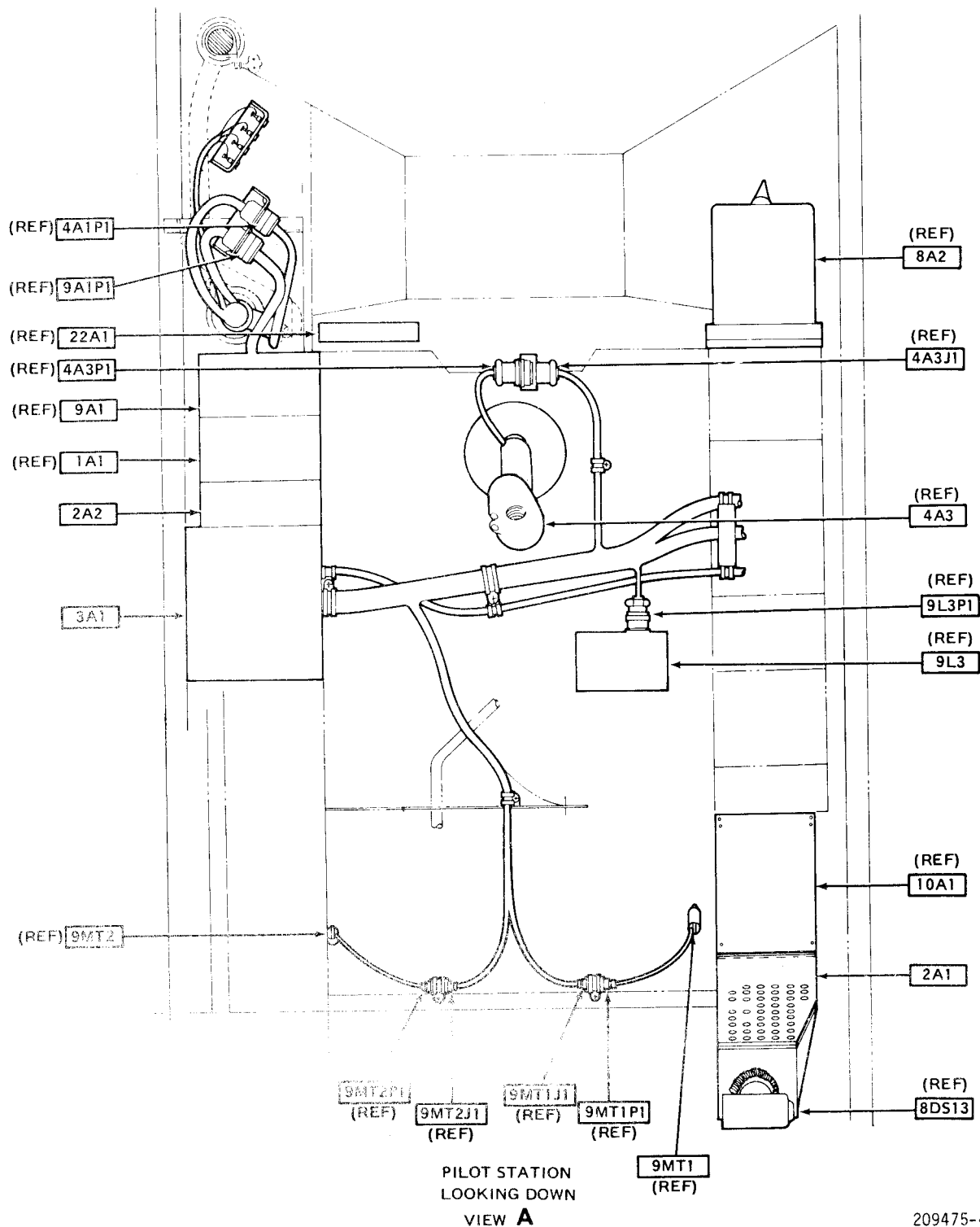
Figure F-51. **M** DC Power Distribution and Interconnect Logic (Equipment Location) (Sheet 7 of 7)



209475-488-1

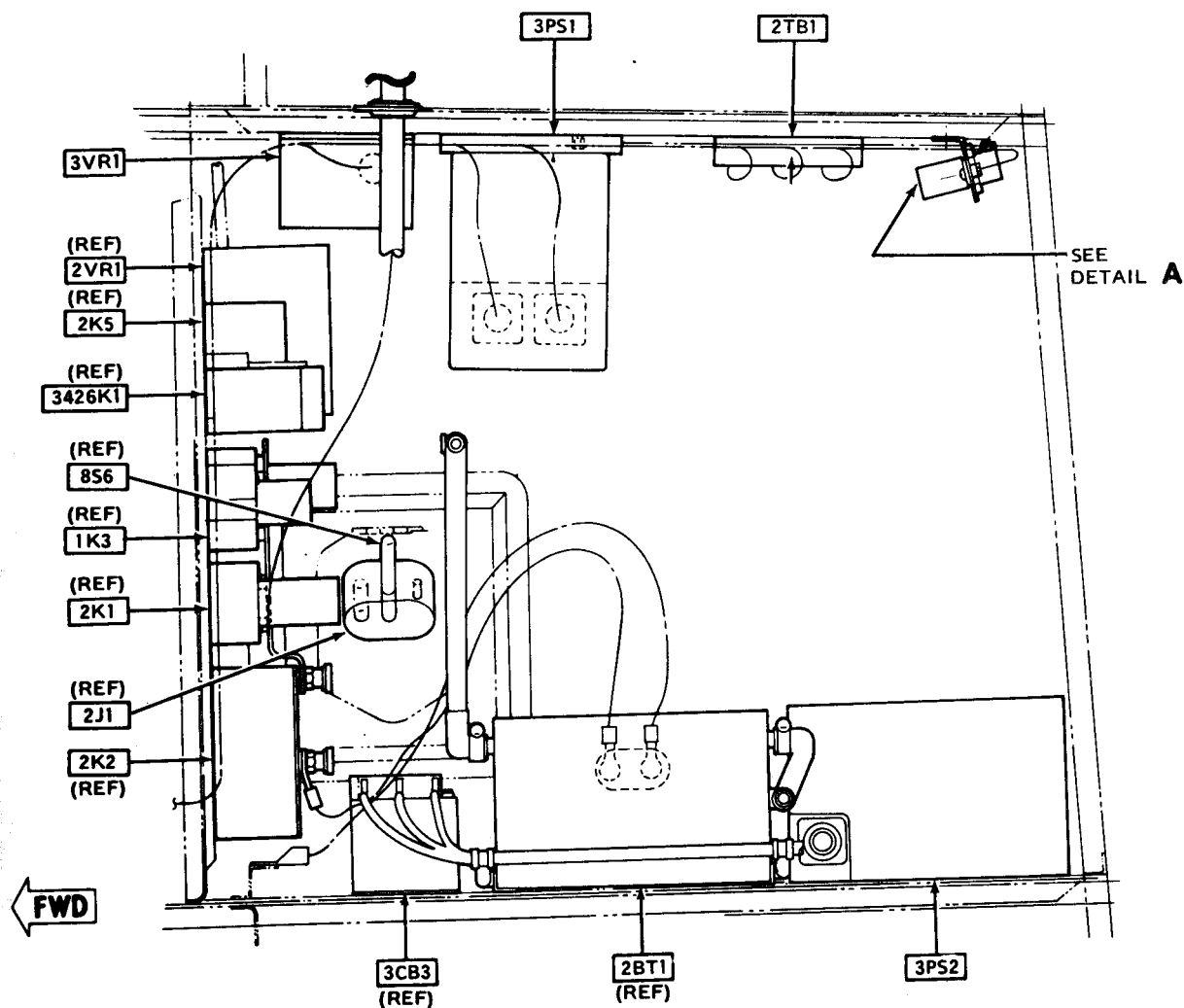
Figure F-52. AC Power System (Equipment Location) (Sheet 1 of 10)

M

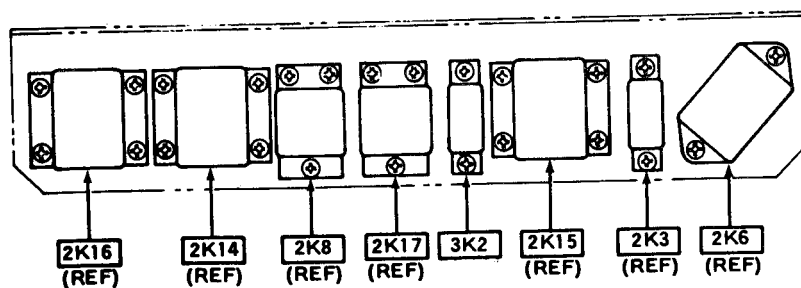


209475-488-2

Figure F-52. **M** AC Power System (Equipment Location) (Sheet 2 of 10)



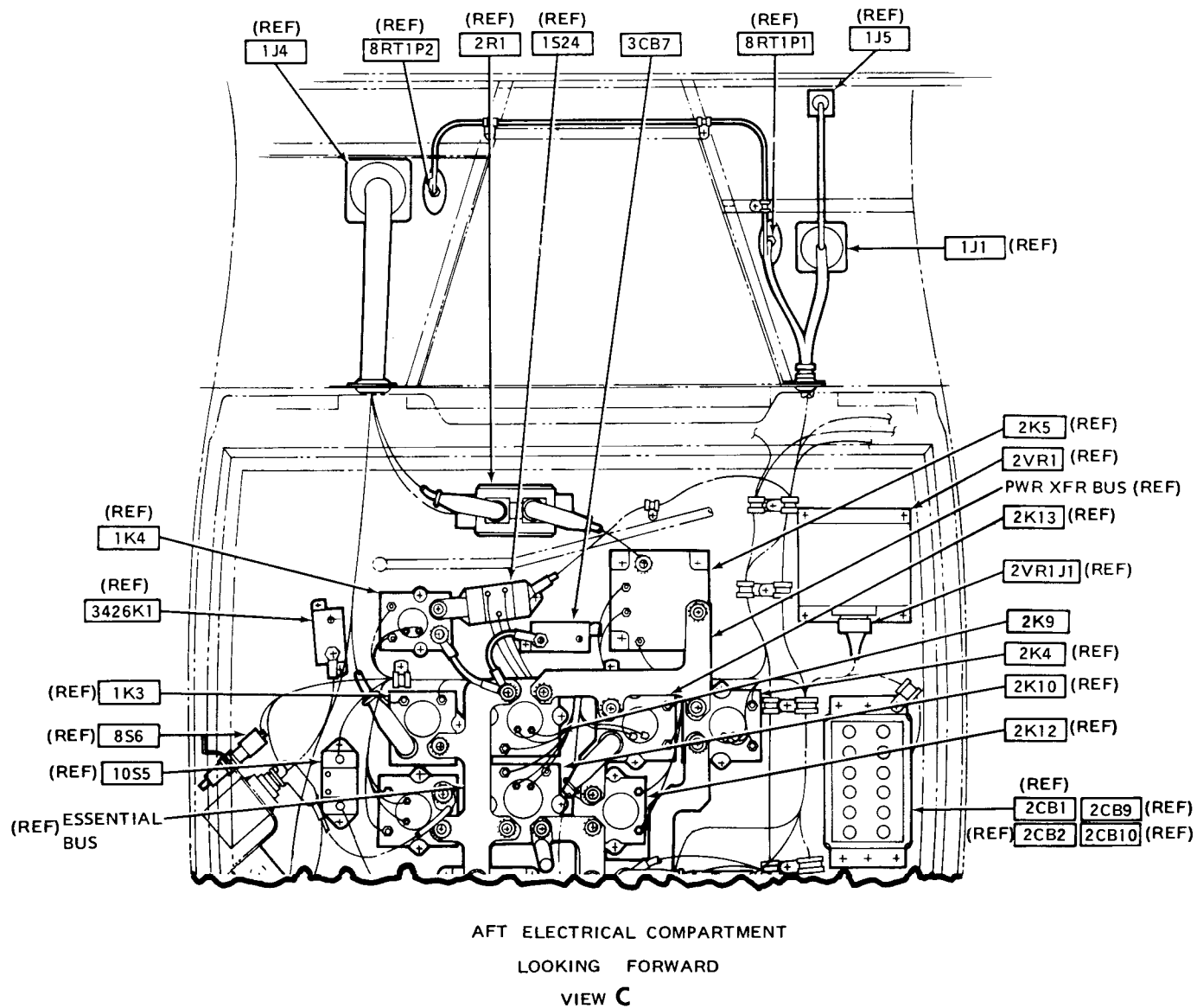
AFT COMPARTMENT
LOOKING INBD LH SIDE
VIEW B



LOOKING AFT
DETAIL A

209475-488-3

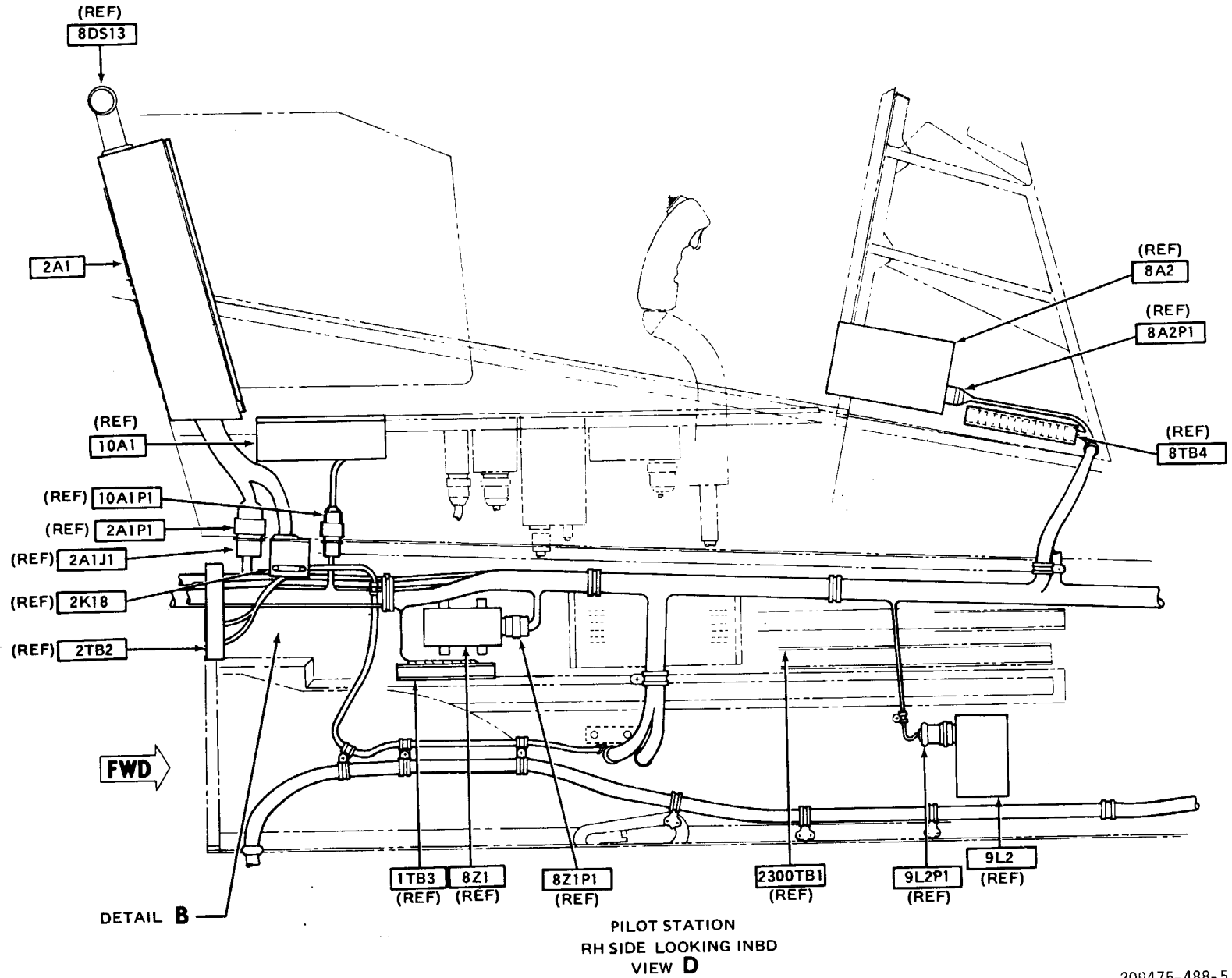
Figure F-52. **M** AC Power System (Equipment Location) (Sheet 3 of 10)



209475-488-4

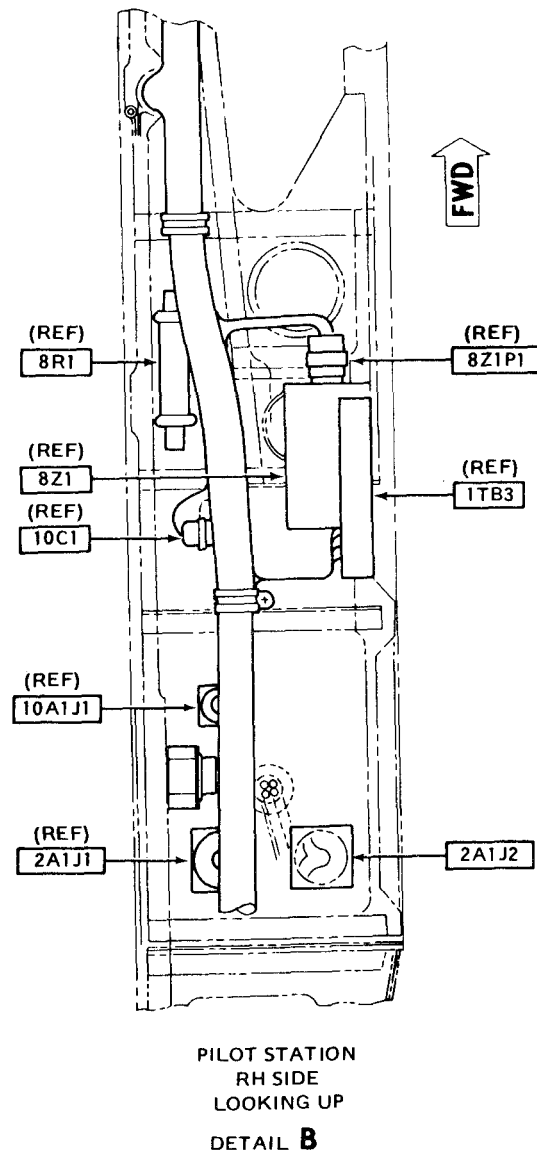
Figure F-52.M

AC Power System (Equipment Location) (Sheet 4 of 10)



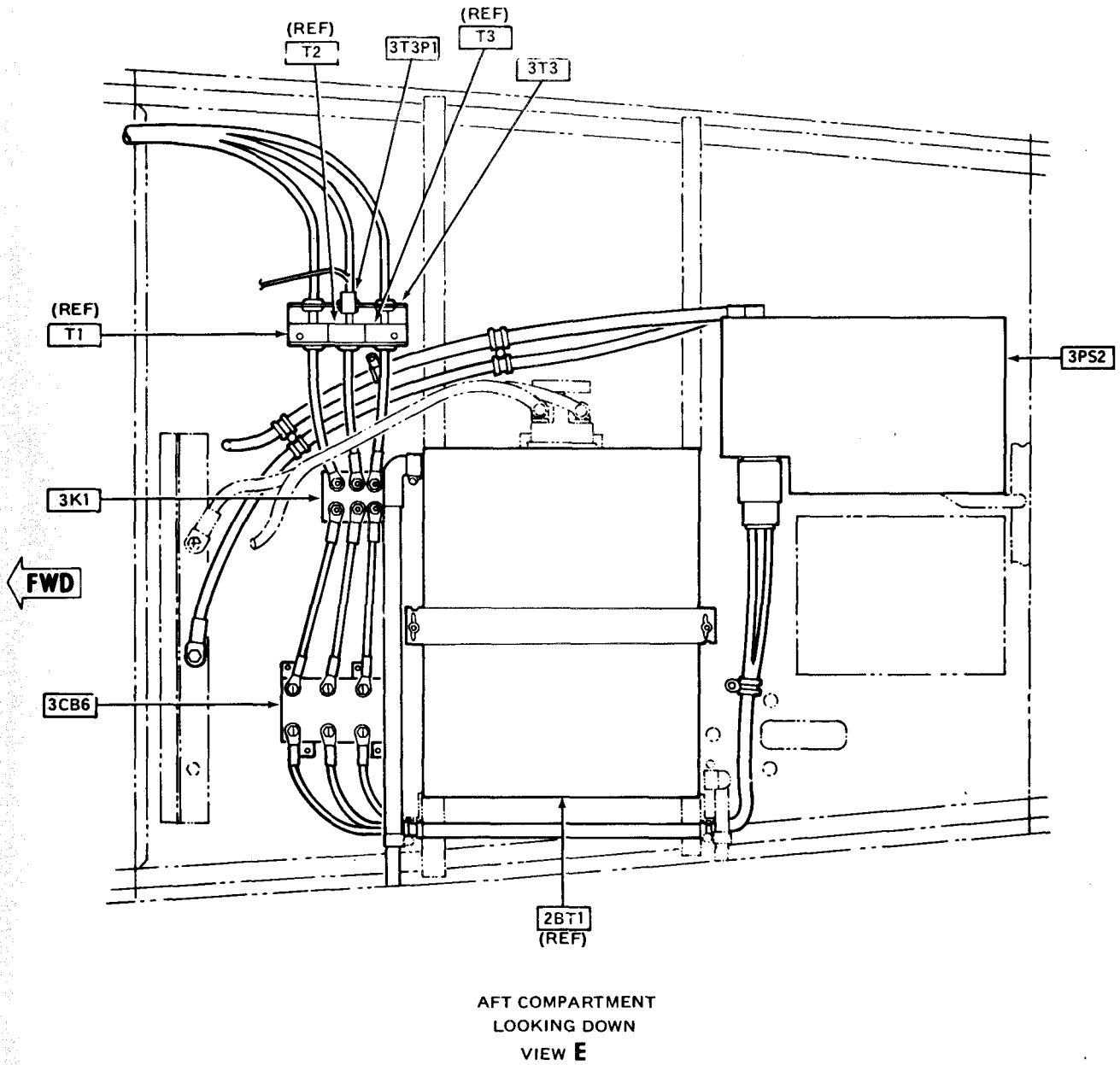
209475-488-5

Figure F-52. **M** AC Power System (Equipment Location) (Sheet 5 of 10)



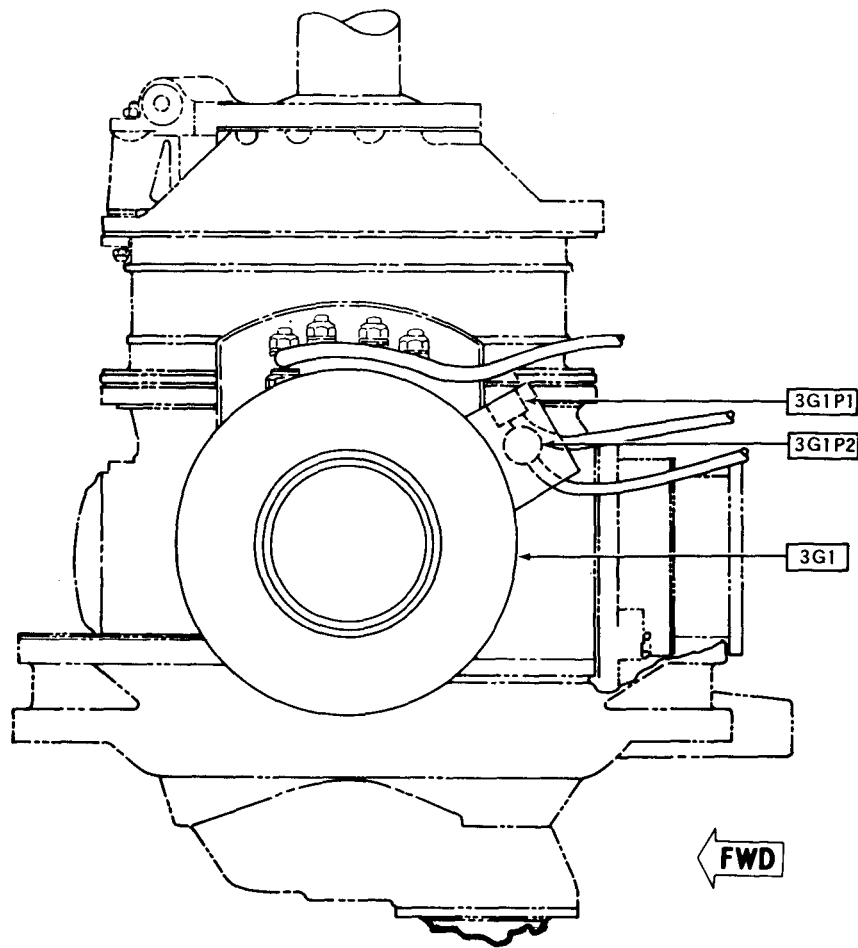
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Figure F-52. **M** AC Power System (Equipment Location) (Sheet 6 of 10)



209475-488-7.

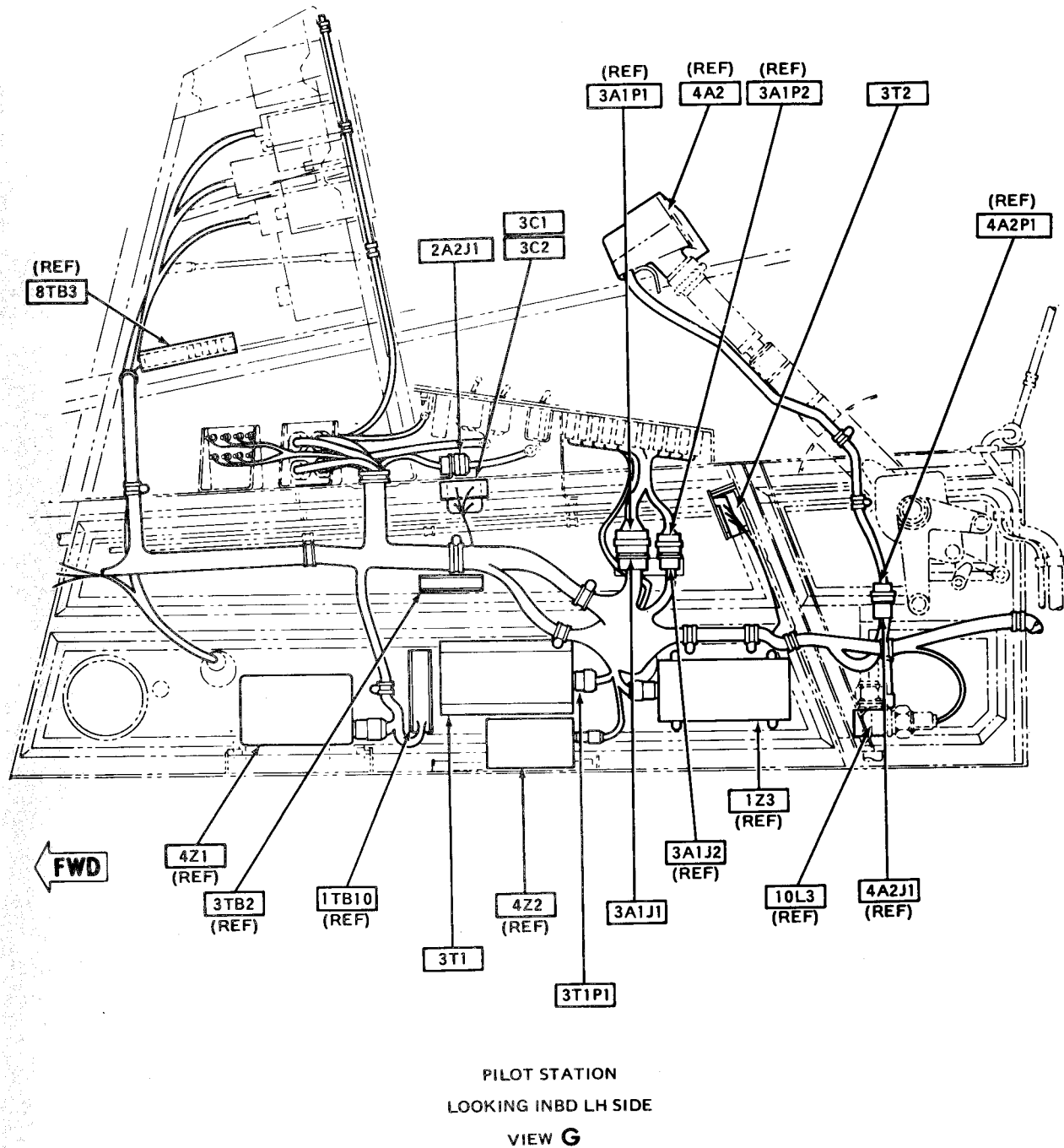
Figure F-52. **M** AC Power System (Equipment Location) (Sheet 7 of 10)



LOOKING INBD LH SIDE
VIEW **F**

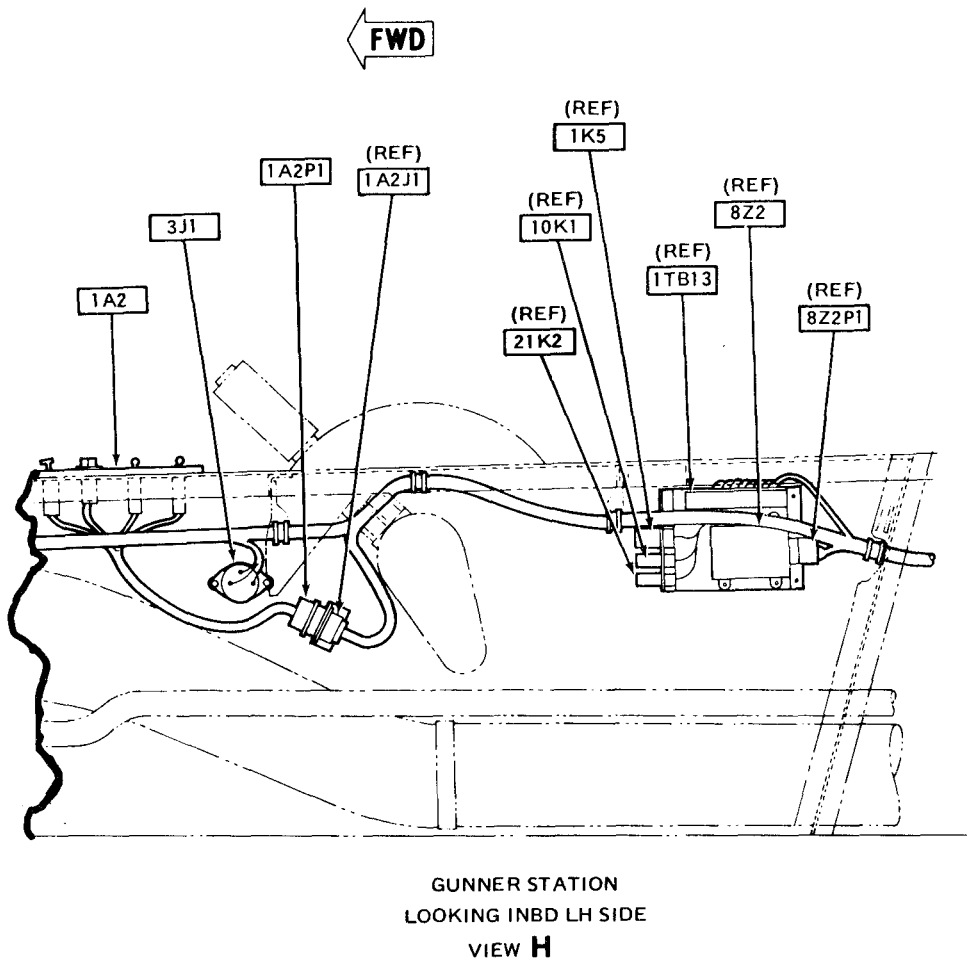
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Figure F-52. **M** AC Power System (Equipment Location) (Sheet 8 of 10)



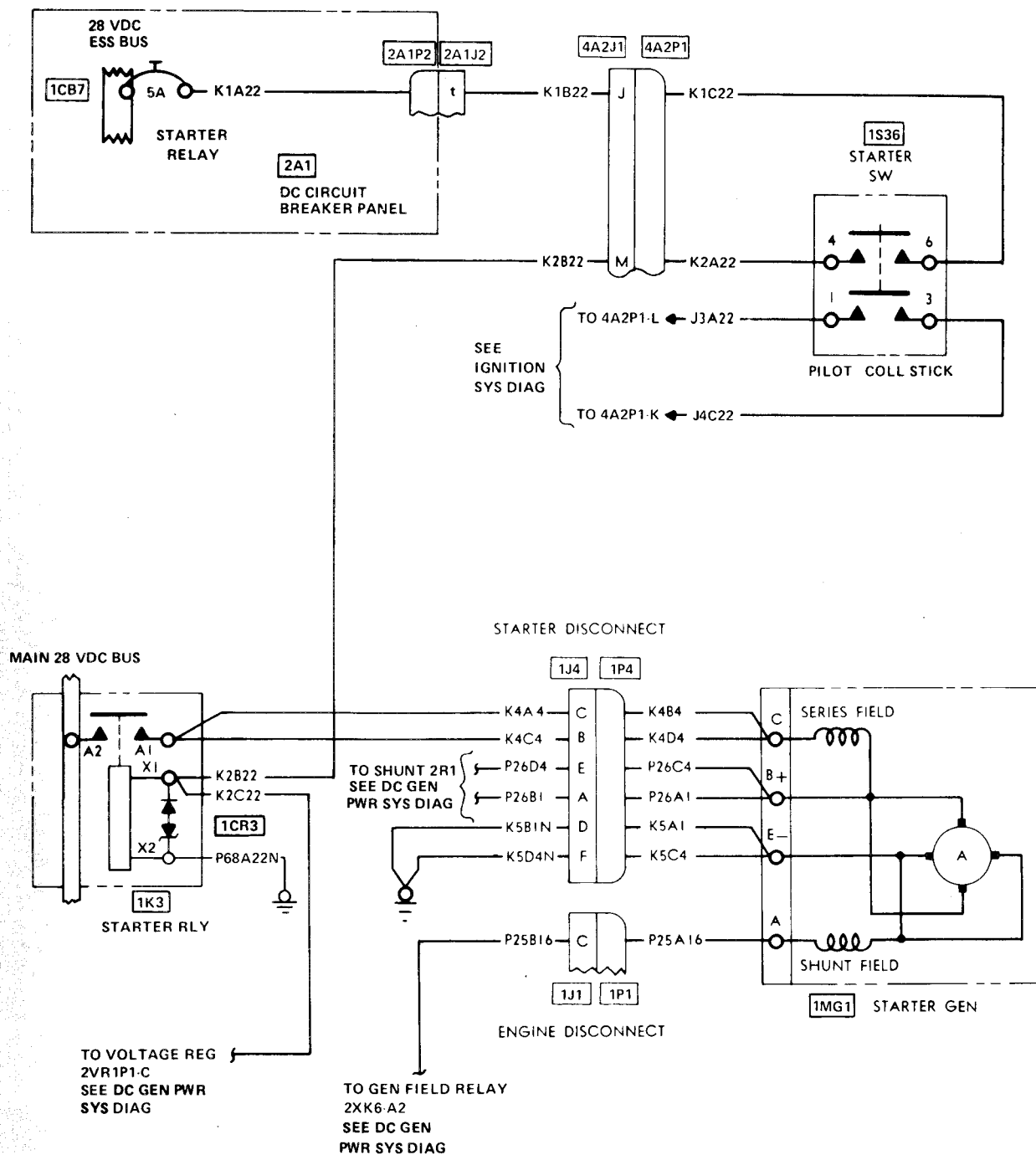
209475-488-9

Figure F-52. **M** AC Power System (Equipment Location) (Sheet 9 of 10)



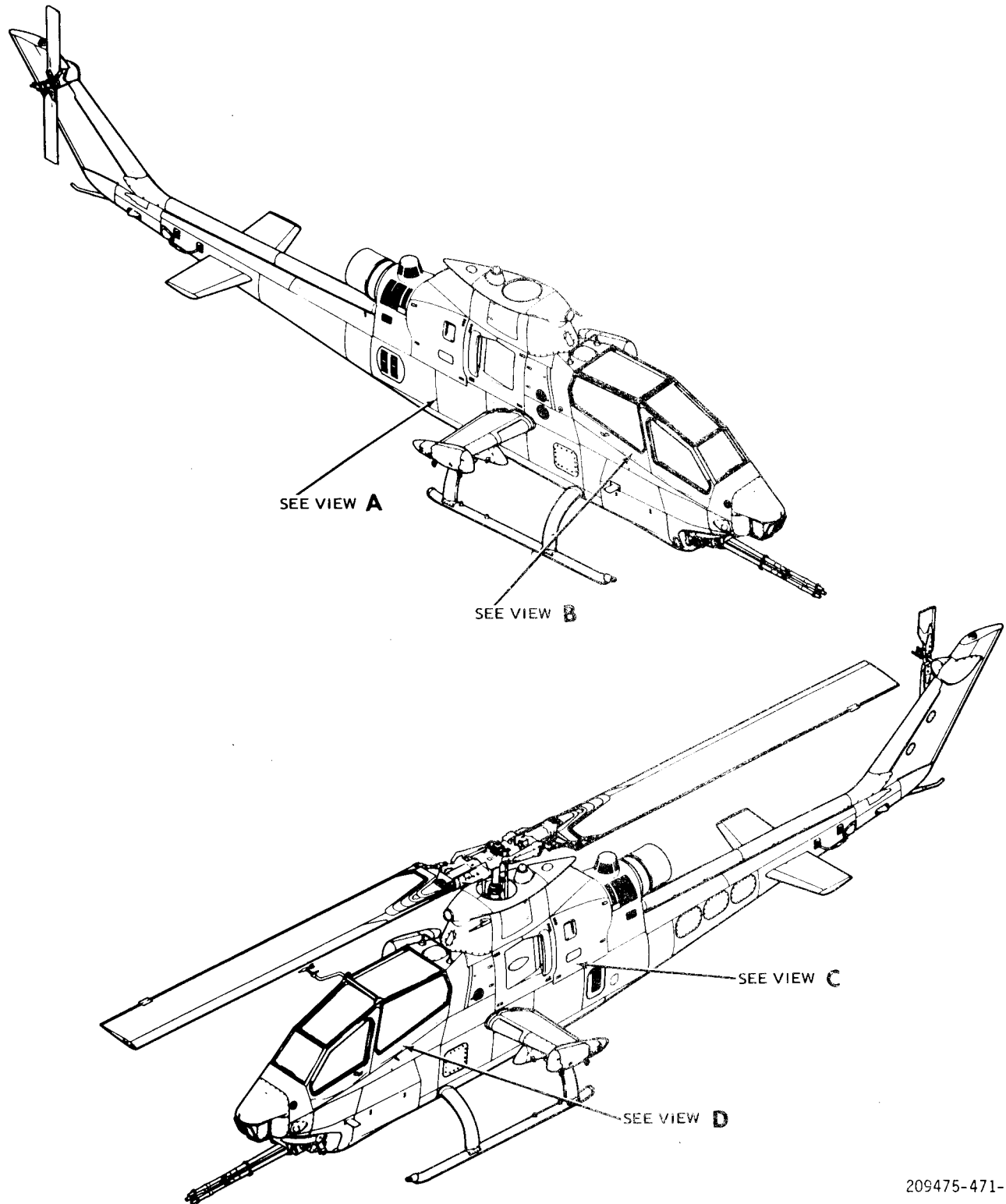
209475-488-10

Figure F-52. **M** AC Power System (Equipment Location) (Sheet 10 of 10)



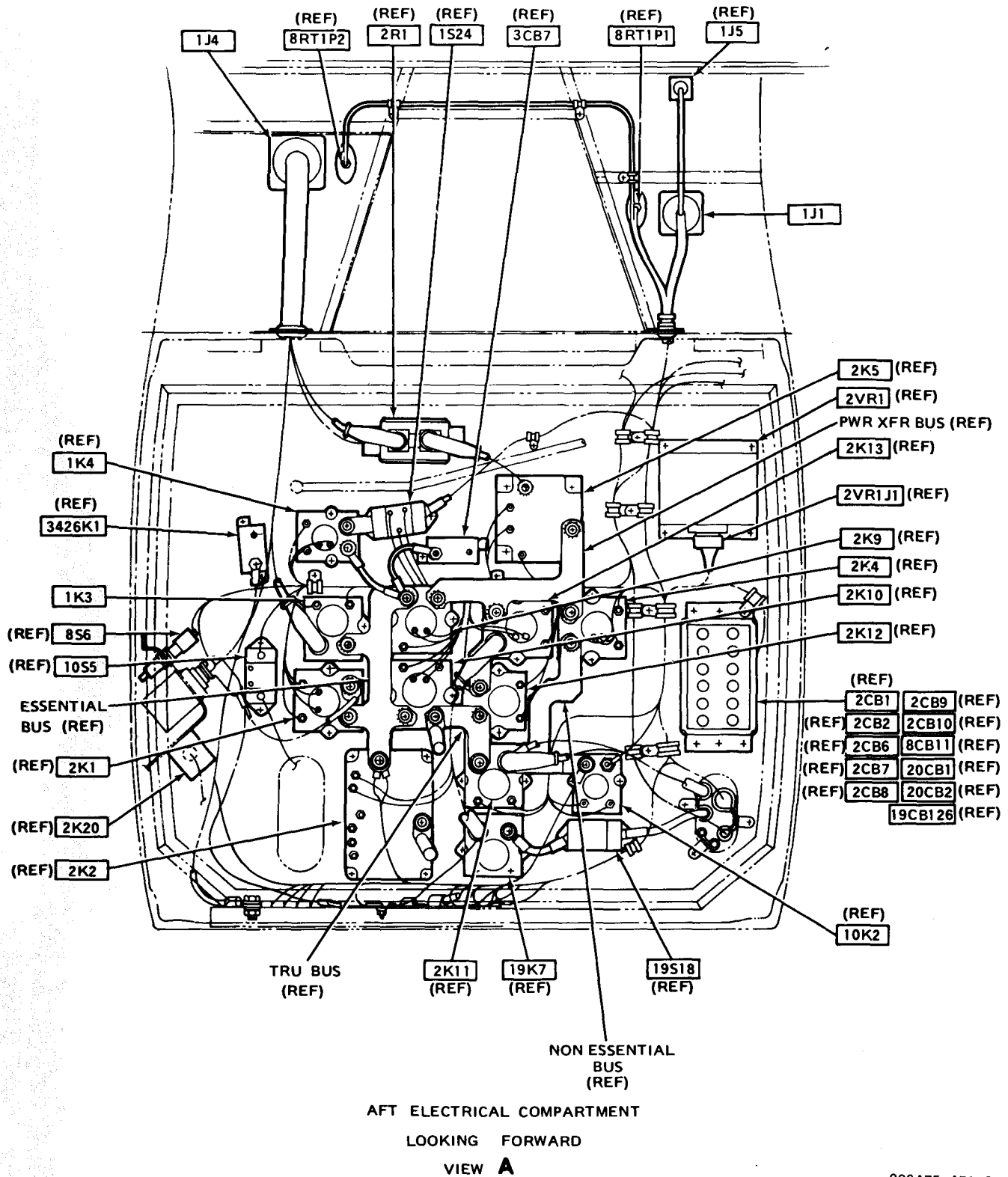
209475-502

Figure F-53. **M** Starter System (Sheet 1 of 6)



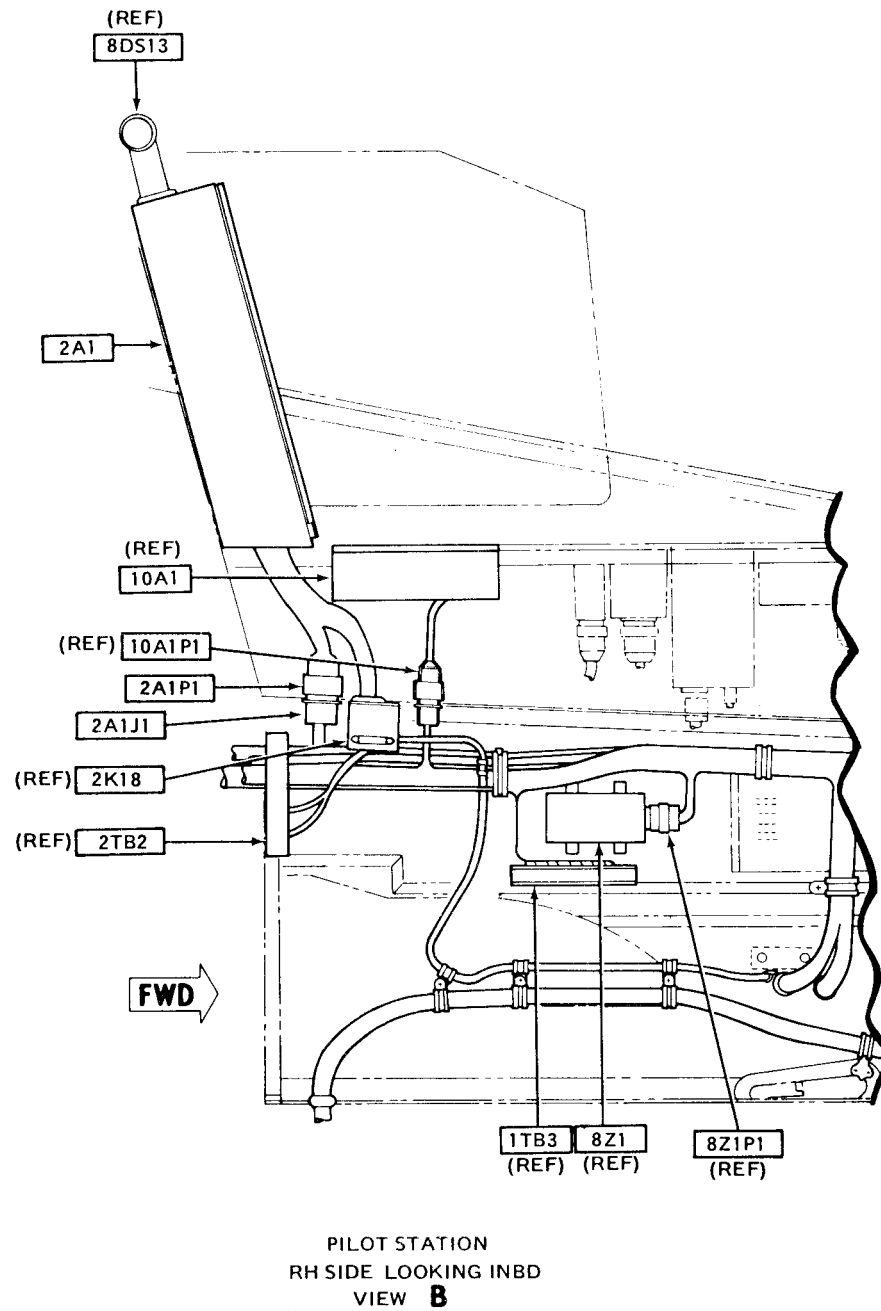
209475-471-1

Figure F-53 **M** Starter System (Sheet 2 of 6)



209475-471-2

Figure F-53. **M** Starter System (Sheet 3 of 6)



209475-471-3

Figure F-53. **M** Starter System (Sheet 4 of 6)

209475-471-4

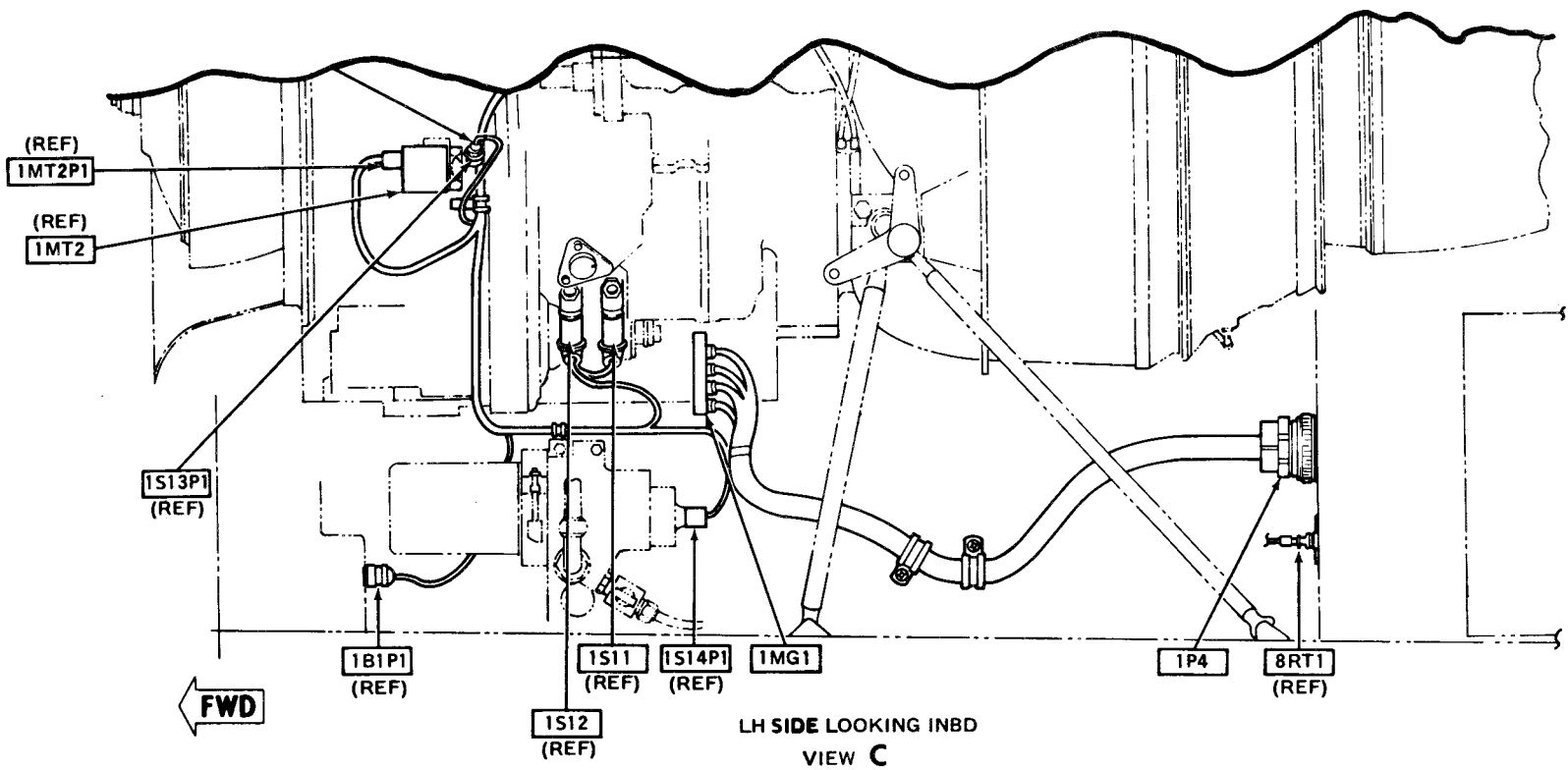
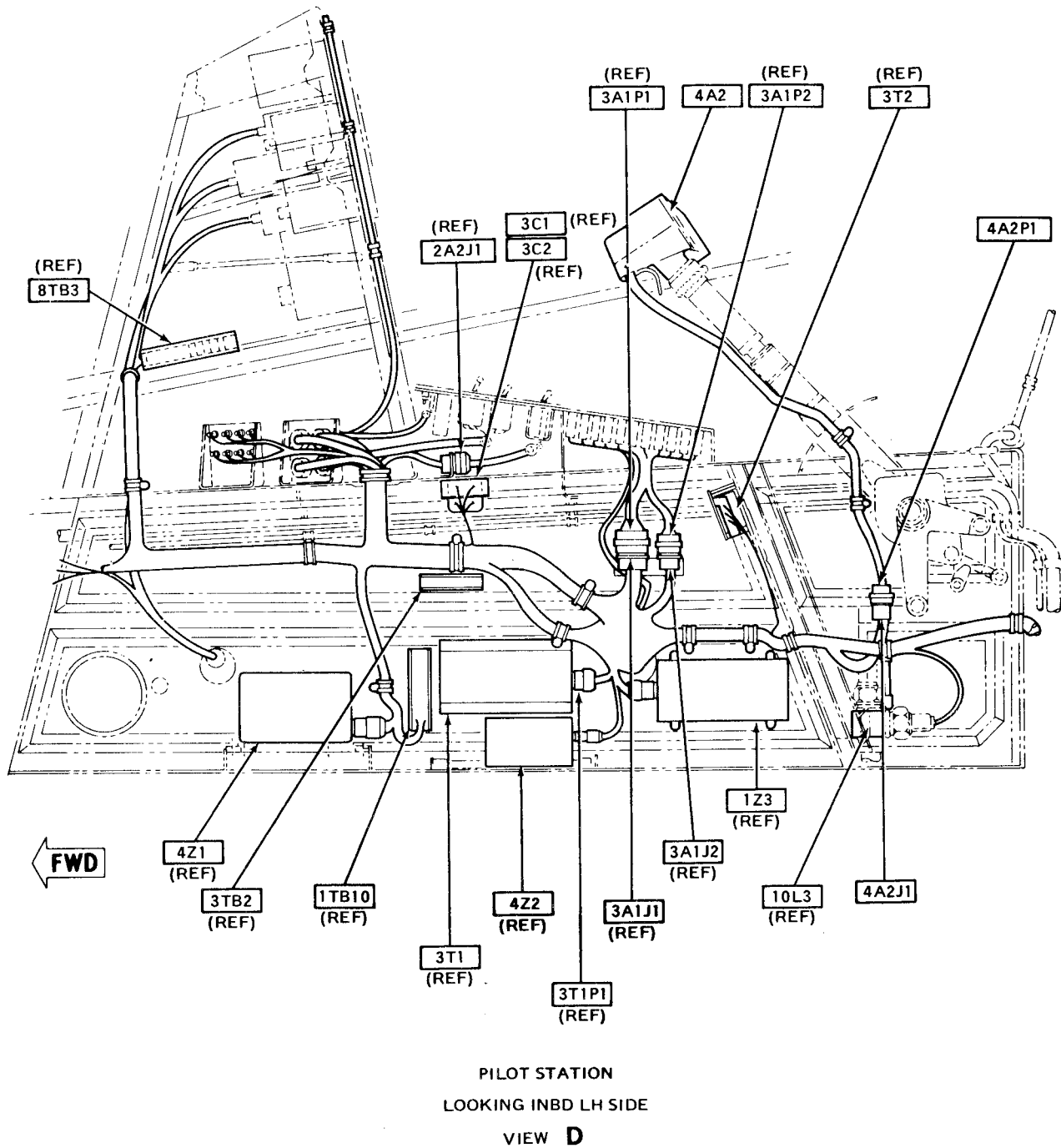
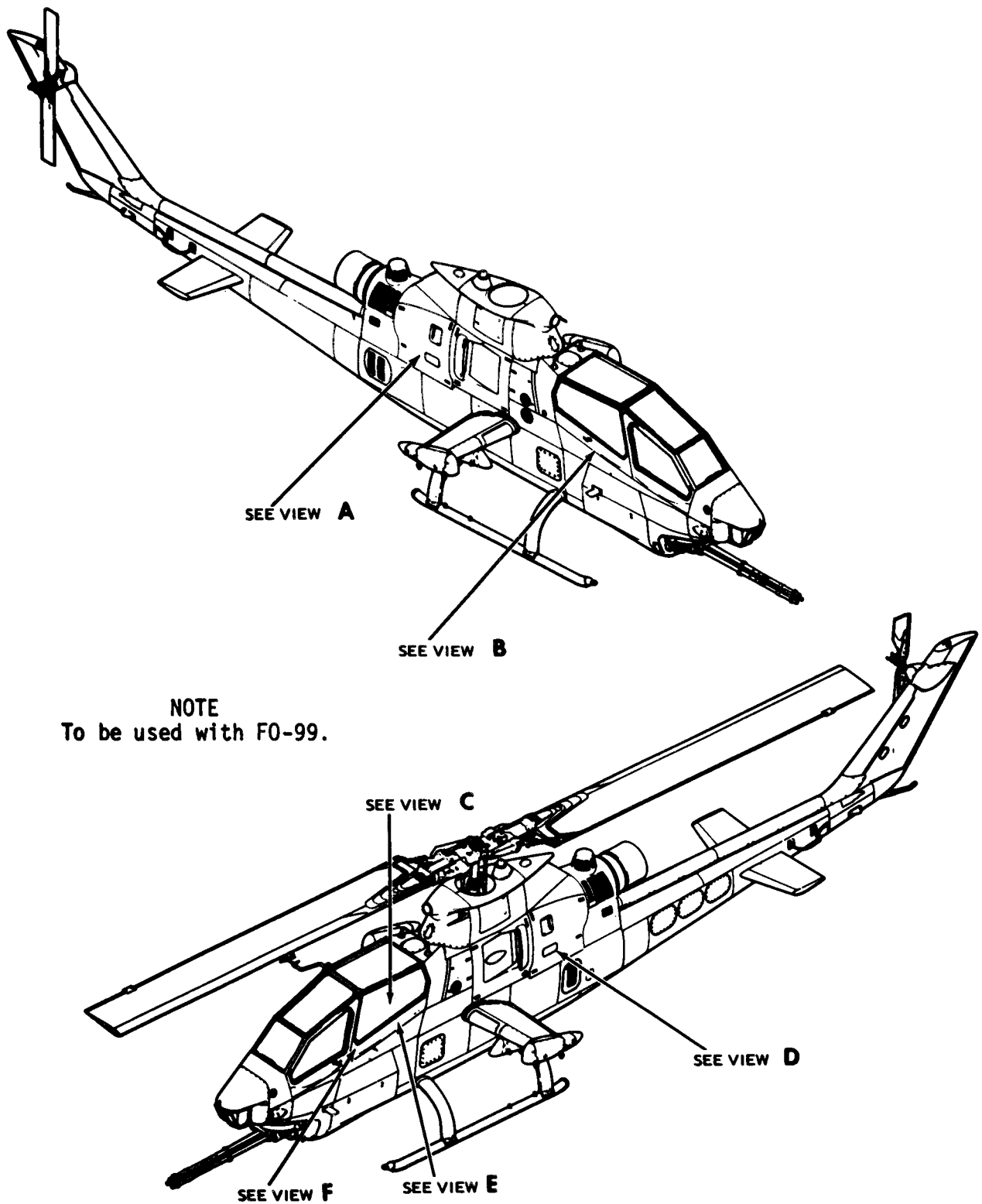


Figure F-53. **M** Starter System (Sheet 5 of 6)



209475-471-5

Figure F-53. **M** Starter System (Sheet 6 of 6)



209475-470-1

Figure F-54. **M** Ignition System (Sheet 1 of 7)

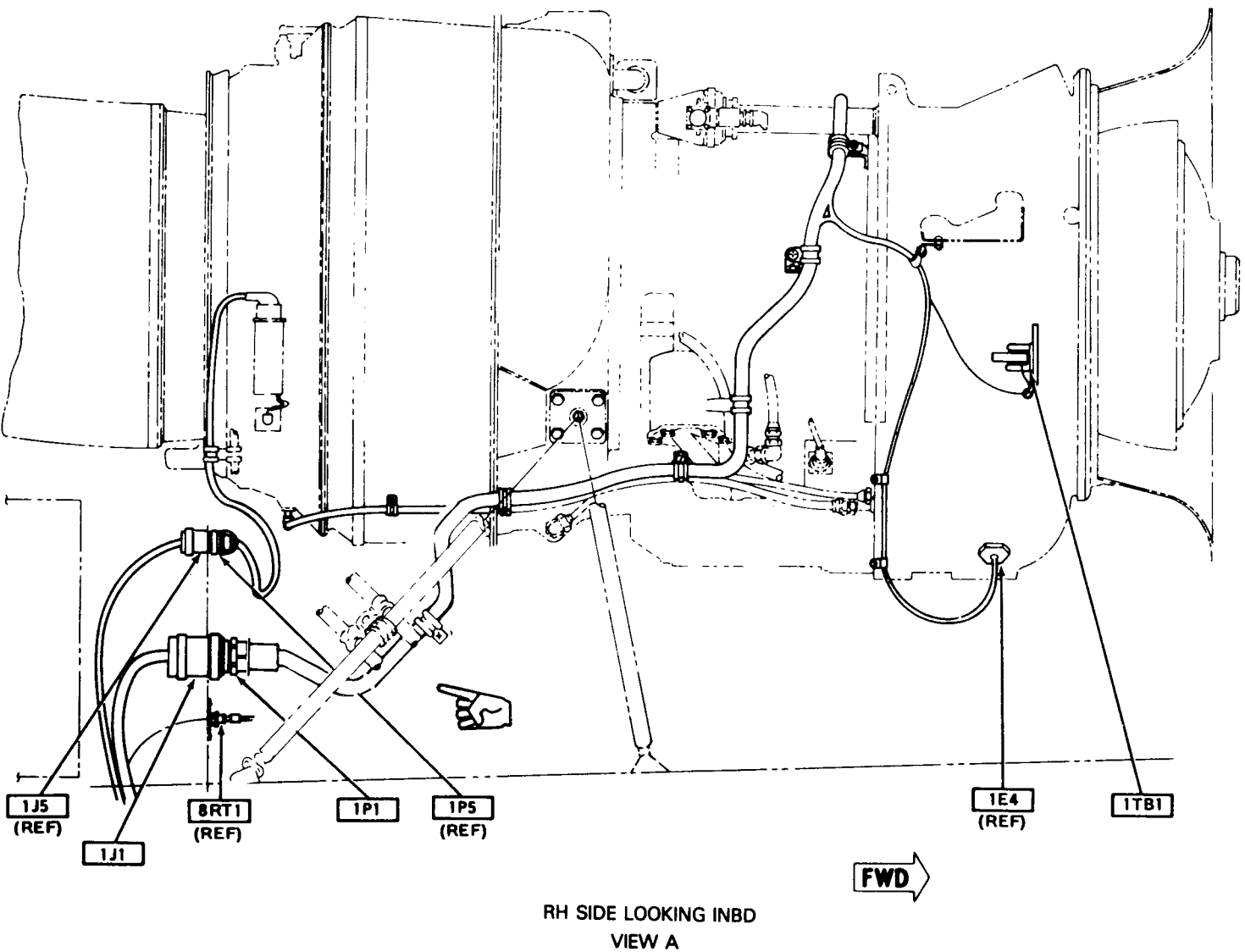
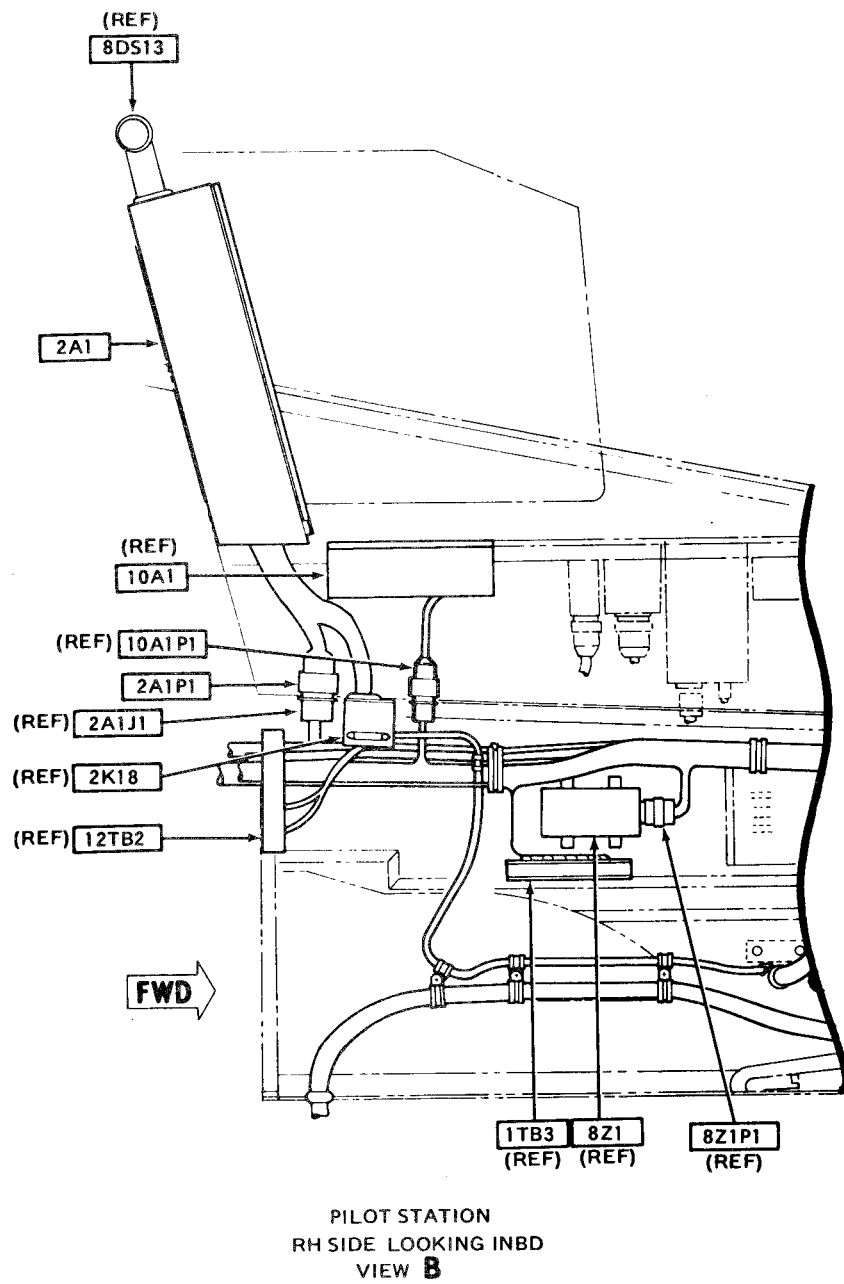
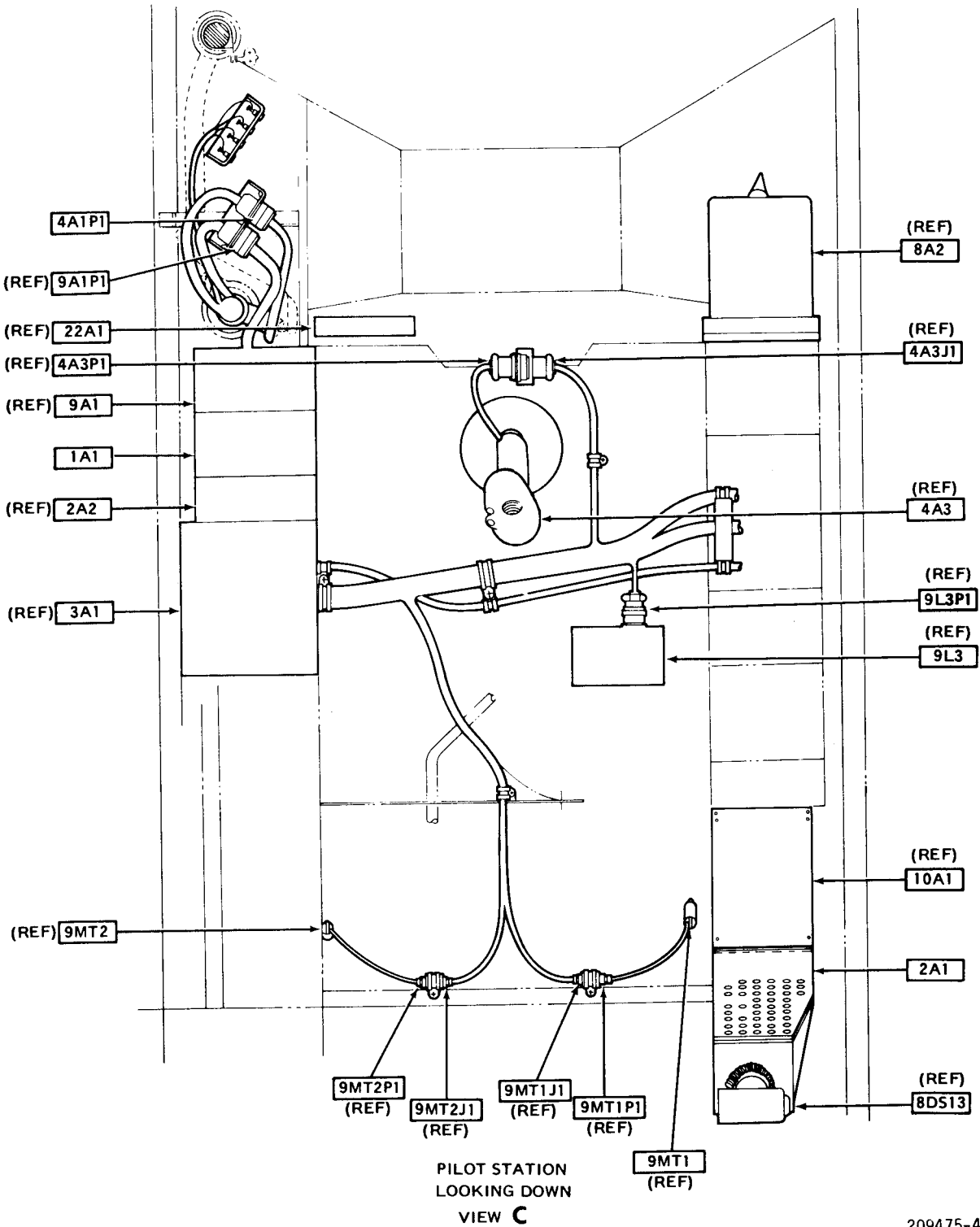


Figure F-54. **M** Ignition System (Sheet 2 of 7)



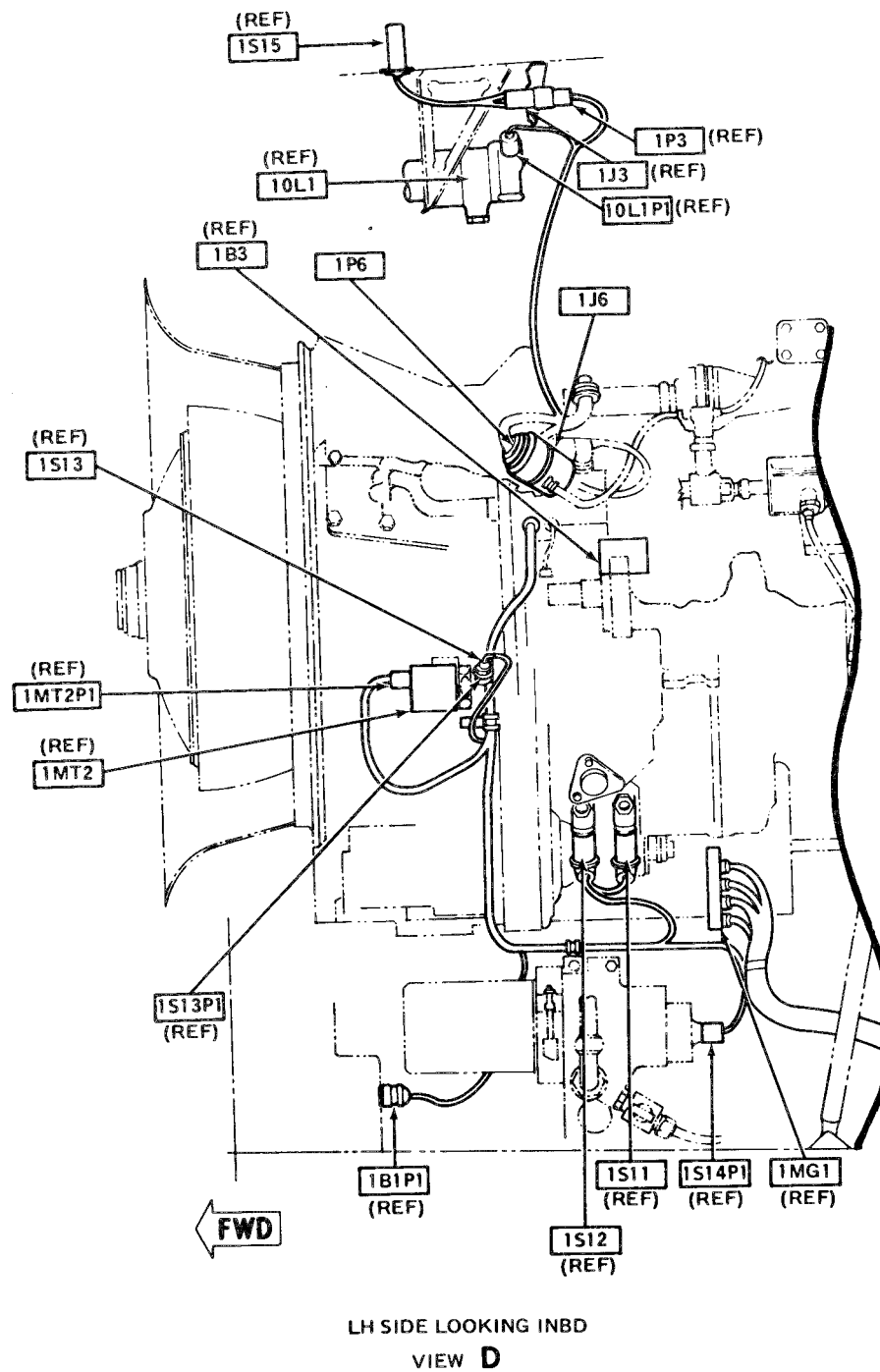
209475-470-3

Figure F-54. **M** Ignition System (Sheet 3 of 7)



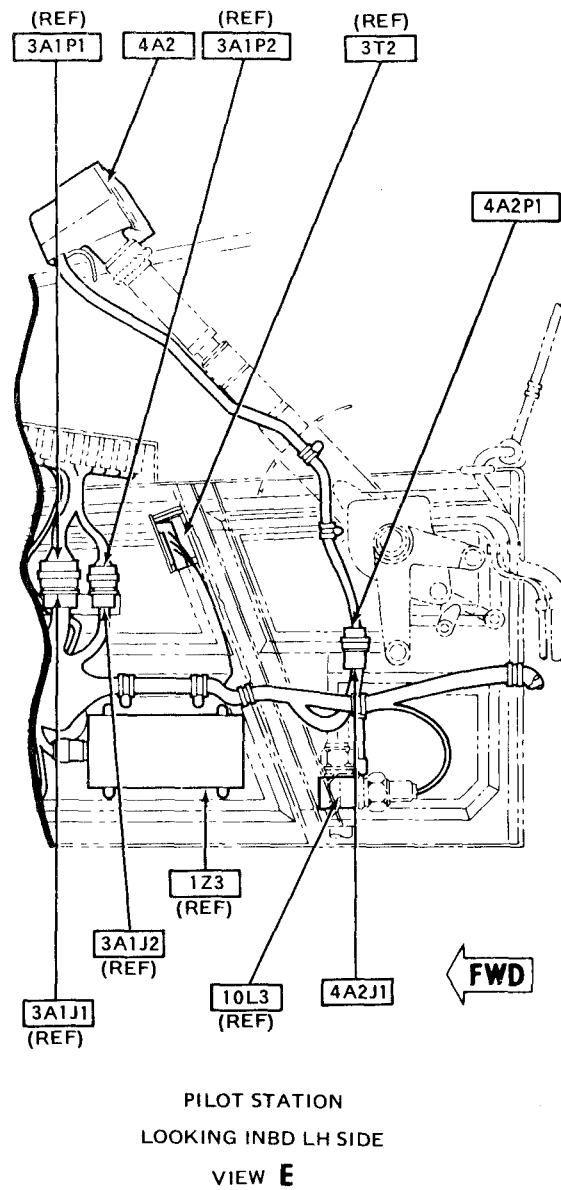
209475-470-4

Figure F-54. **M** Ignition System (Sheet 4 of 7)



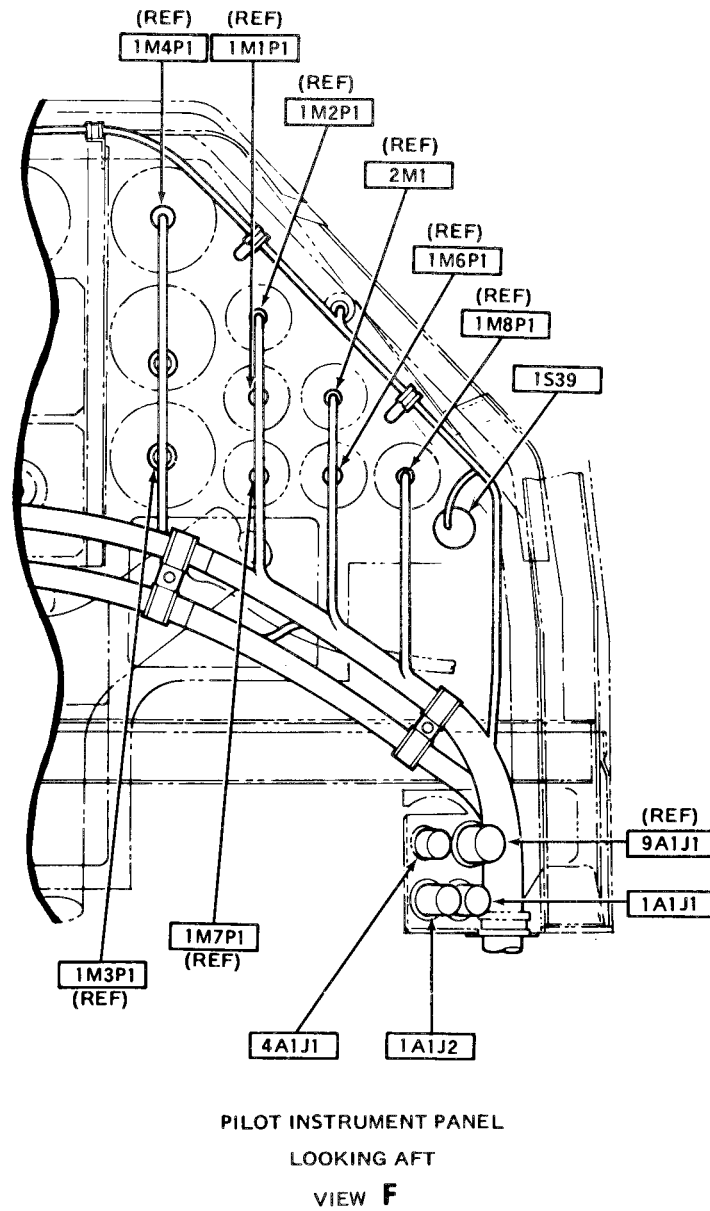
209475-470-5

Figure F-54. **M** Ignition System (Sheet 5 of 7)



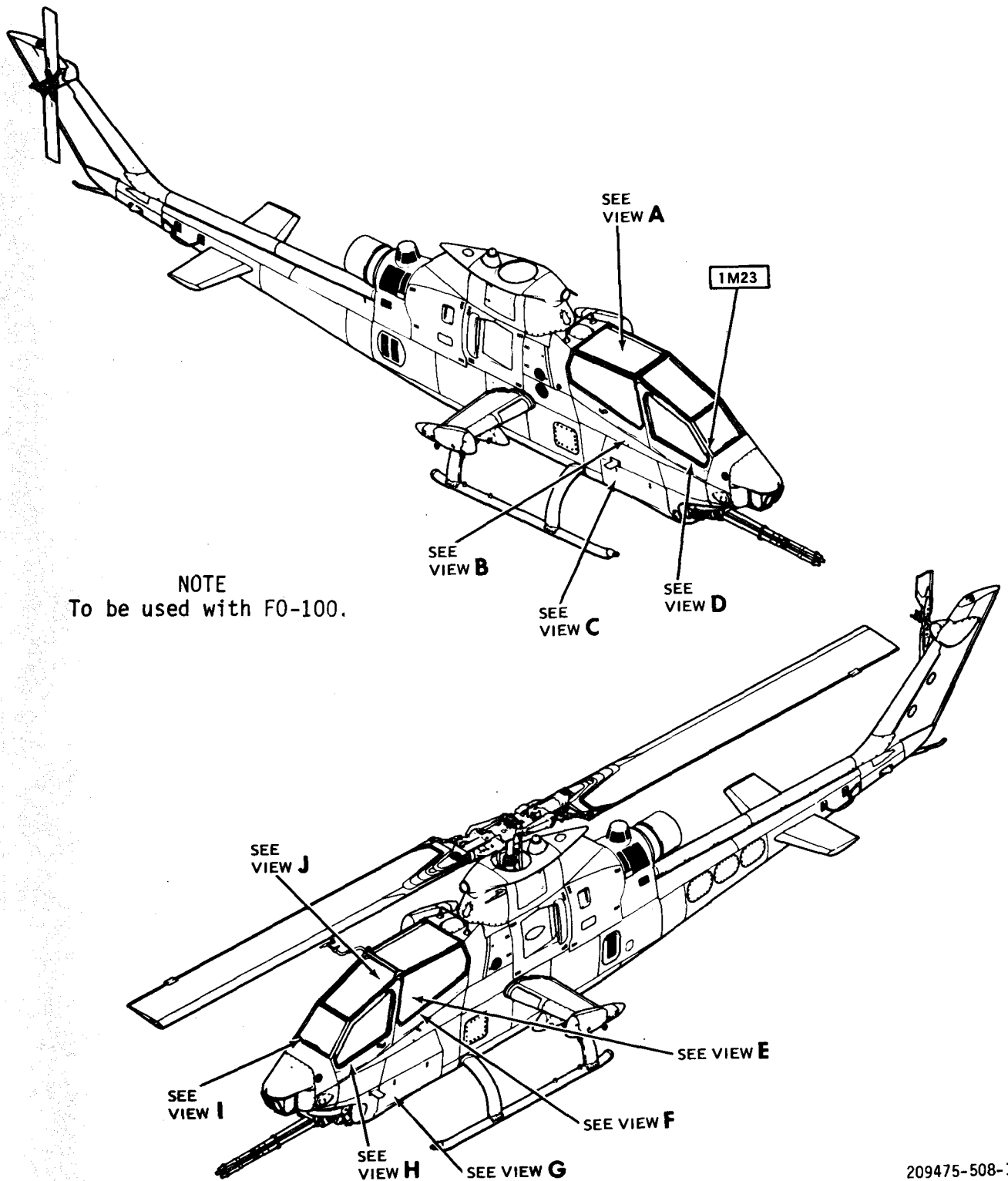
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Figure F-54. **M** Ignition System (Sheet 6 of 7)



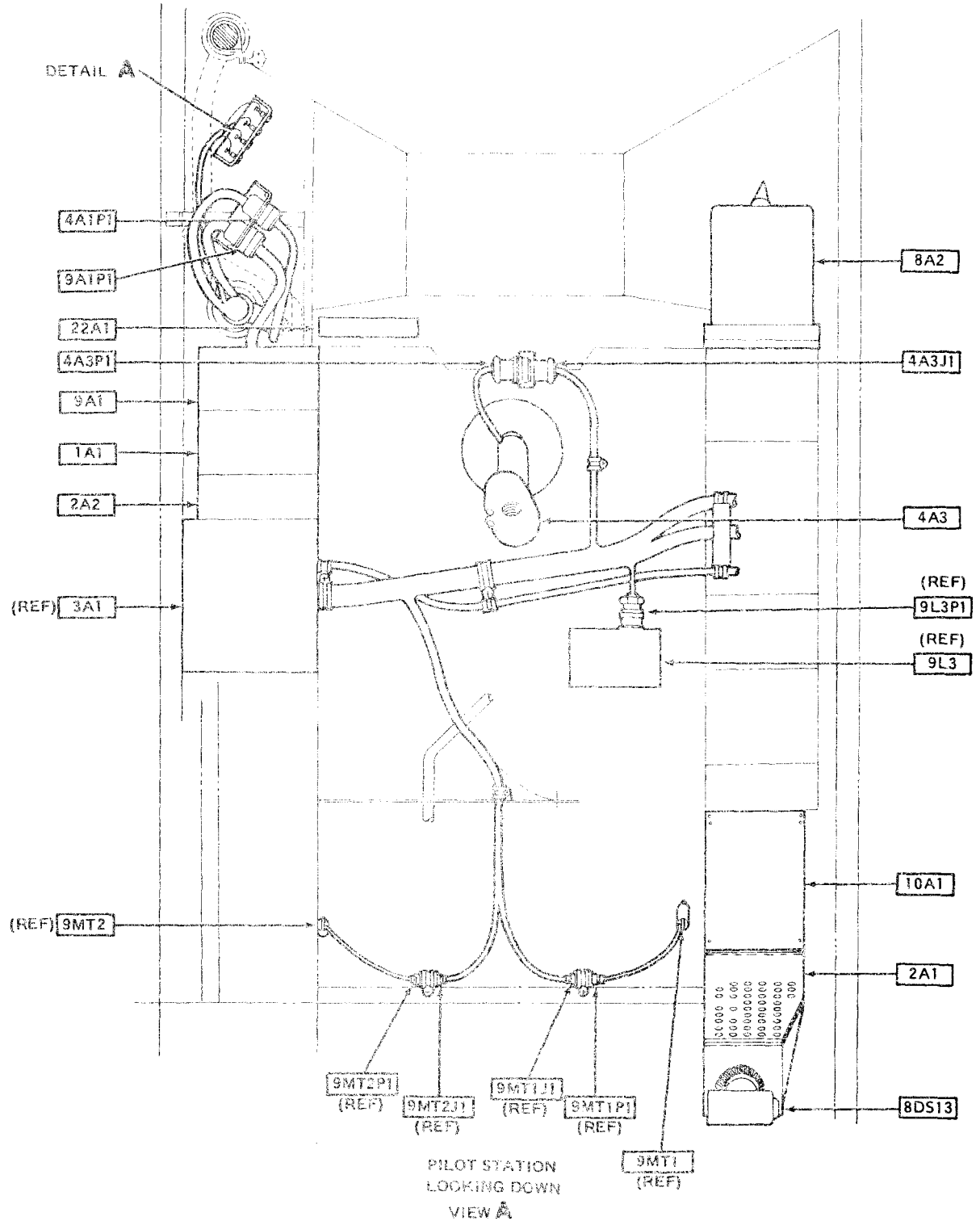
209475-470-7

Figure F-54. **M** Ignition System (Sheet 7 of 7)



209475-508-1

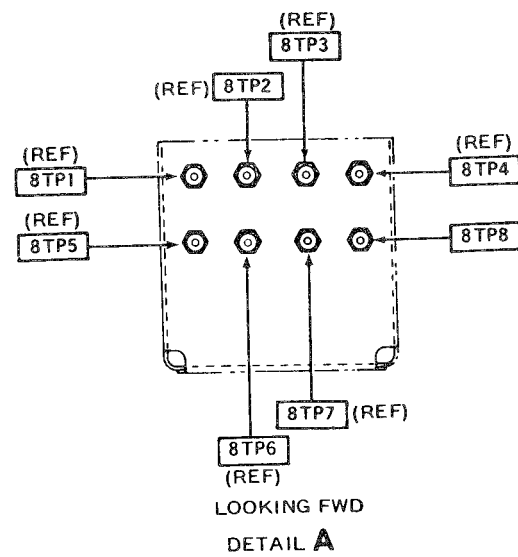
Figure F-55. **M** interior Lights System (Equipment Location) (Sheet 1 of 13)



209475-508-2

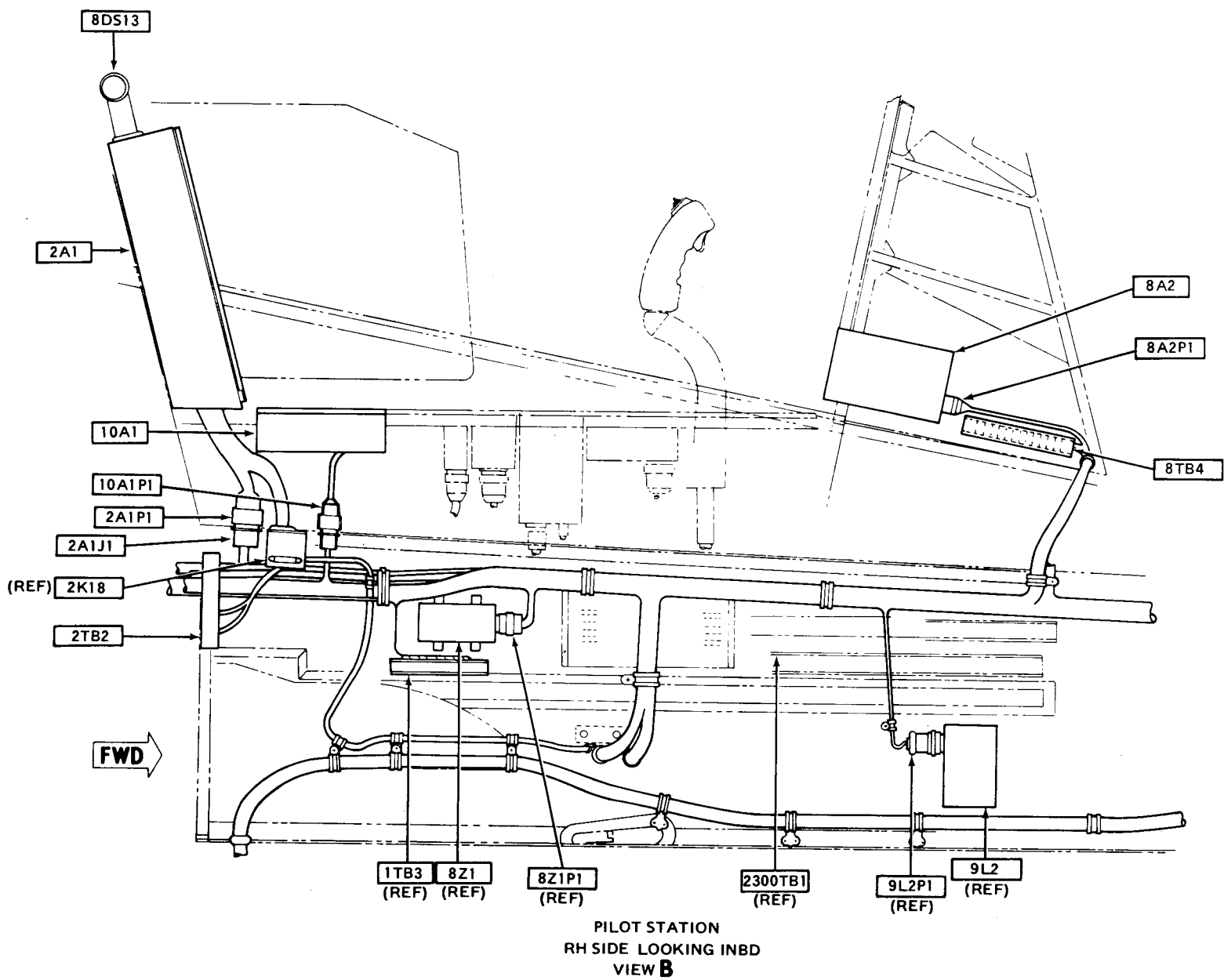
Figure F-55. Interior Lights System (Equipment Location) (Sheet 2 of 13)





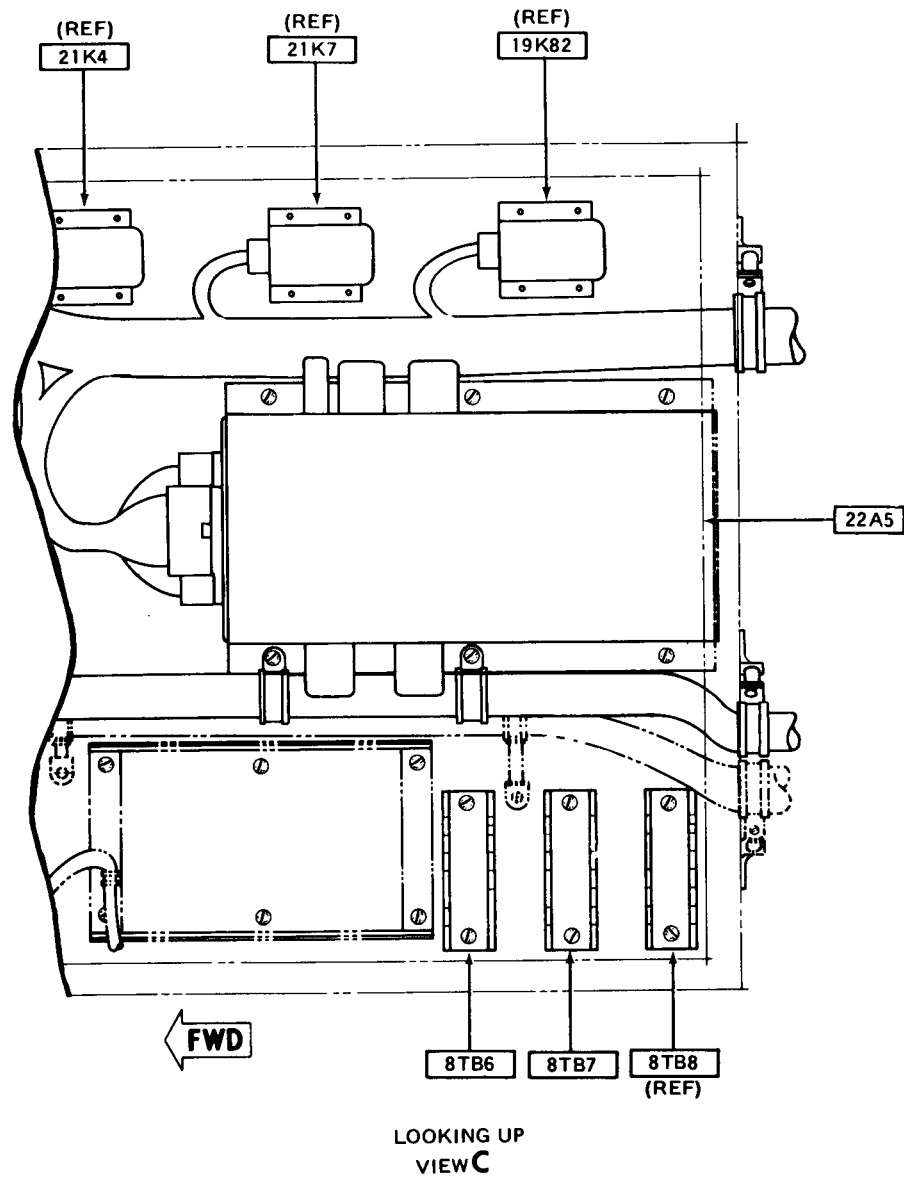
209475-508-3

Figure F-55. **M** Interior Lights System (Equipment Location (sheet 3 of 13))



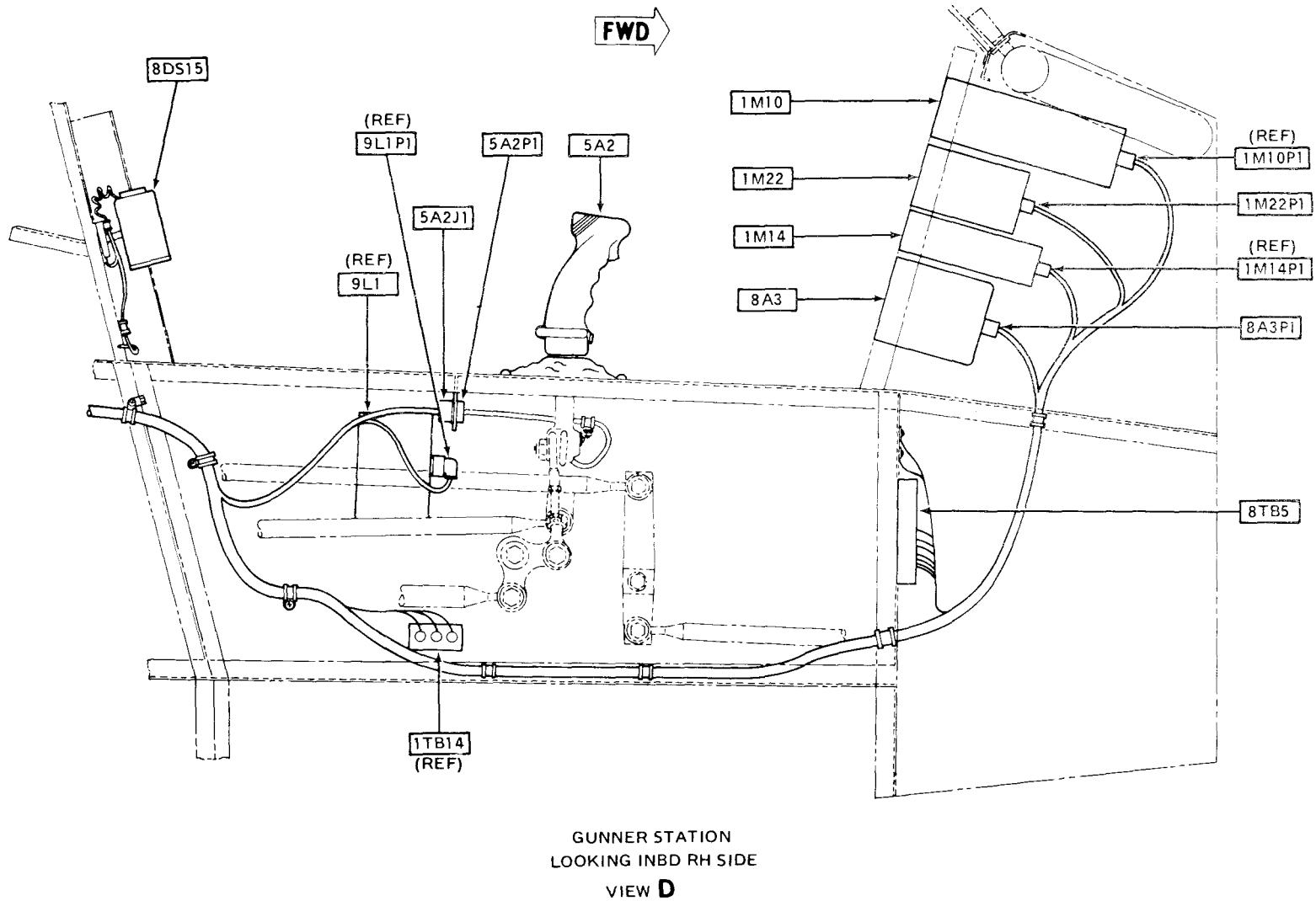
209475-508-4

Figure F-55. **M** Interior Lights System (Equipment Location) (Sheet 4 of 13)



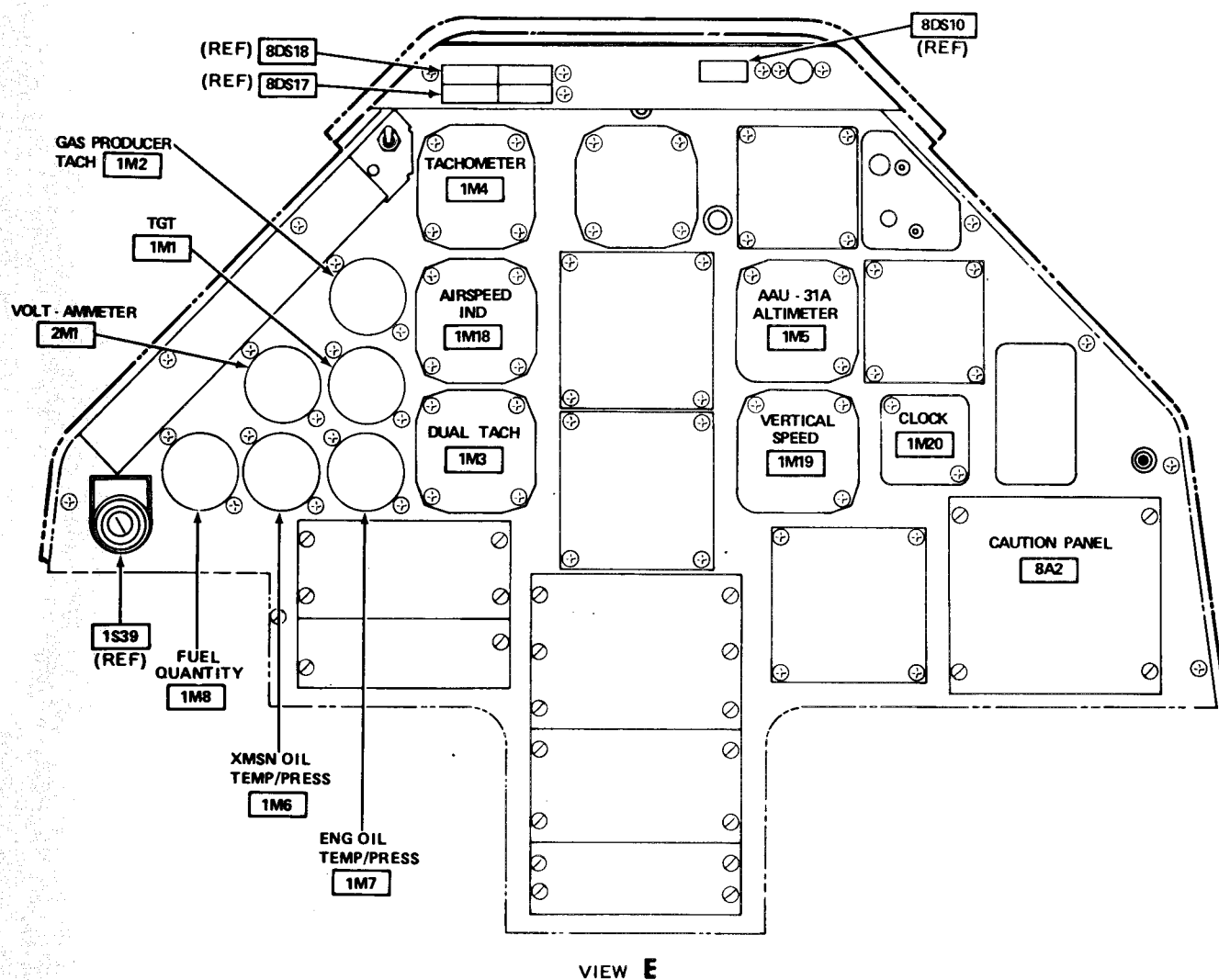
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Figure F-55. **M** Interior Lights System (Equipment Location) (Sheet 5 of 13)



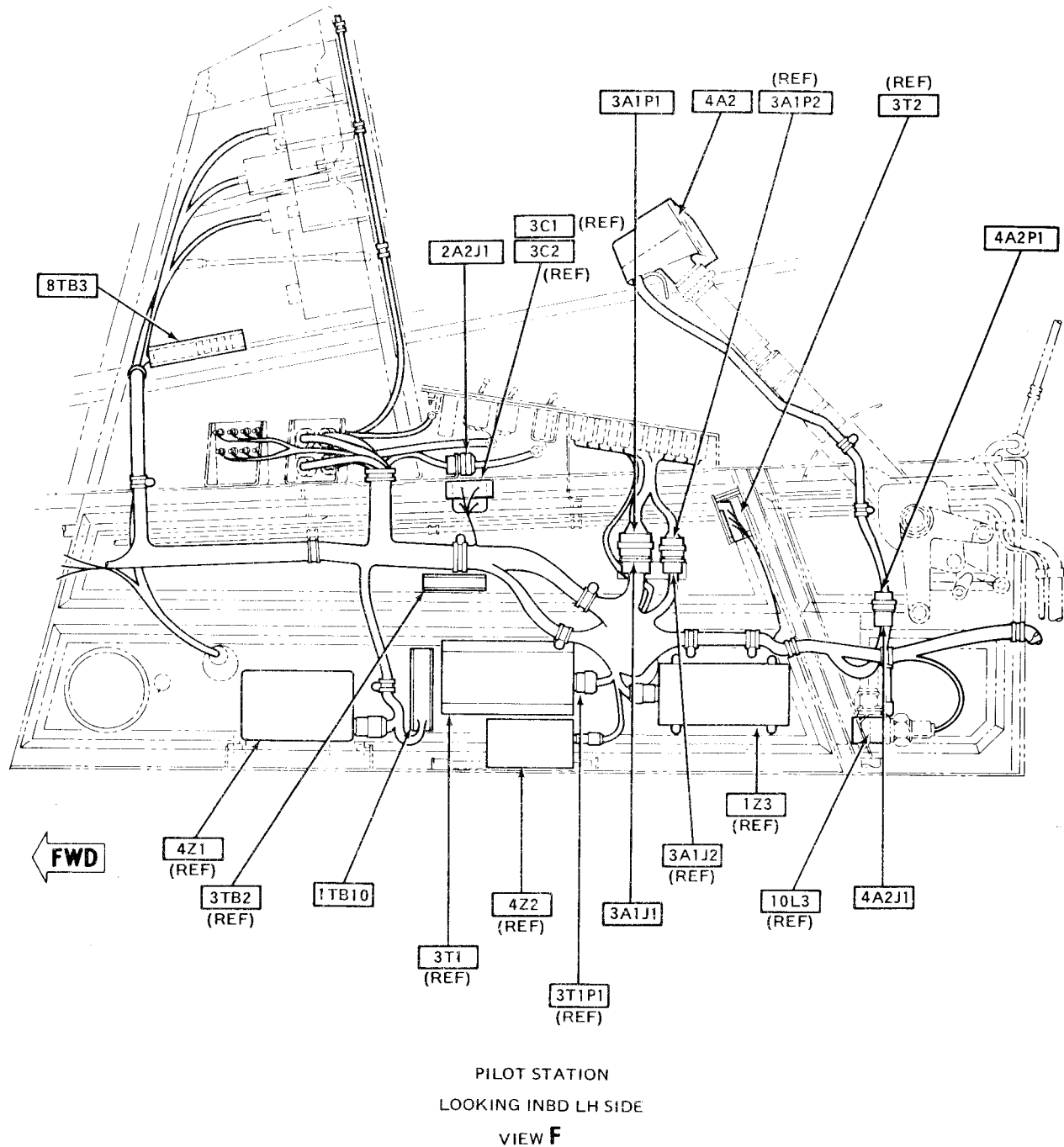
209475-508-6

Figure F-55. **M** Interior Lights System (Equipment Location) (Sheet 6 of 13)



209475-508-7

Figure F-55. **M** Interior Lights System (Equipment Location) (Sheet 7 of 13)



209475-508-8

Figure F-55. **M** Interior Lights System (Equipment Location) (Sheet 8 of 13)

209475-508-9

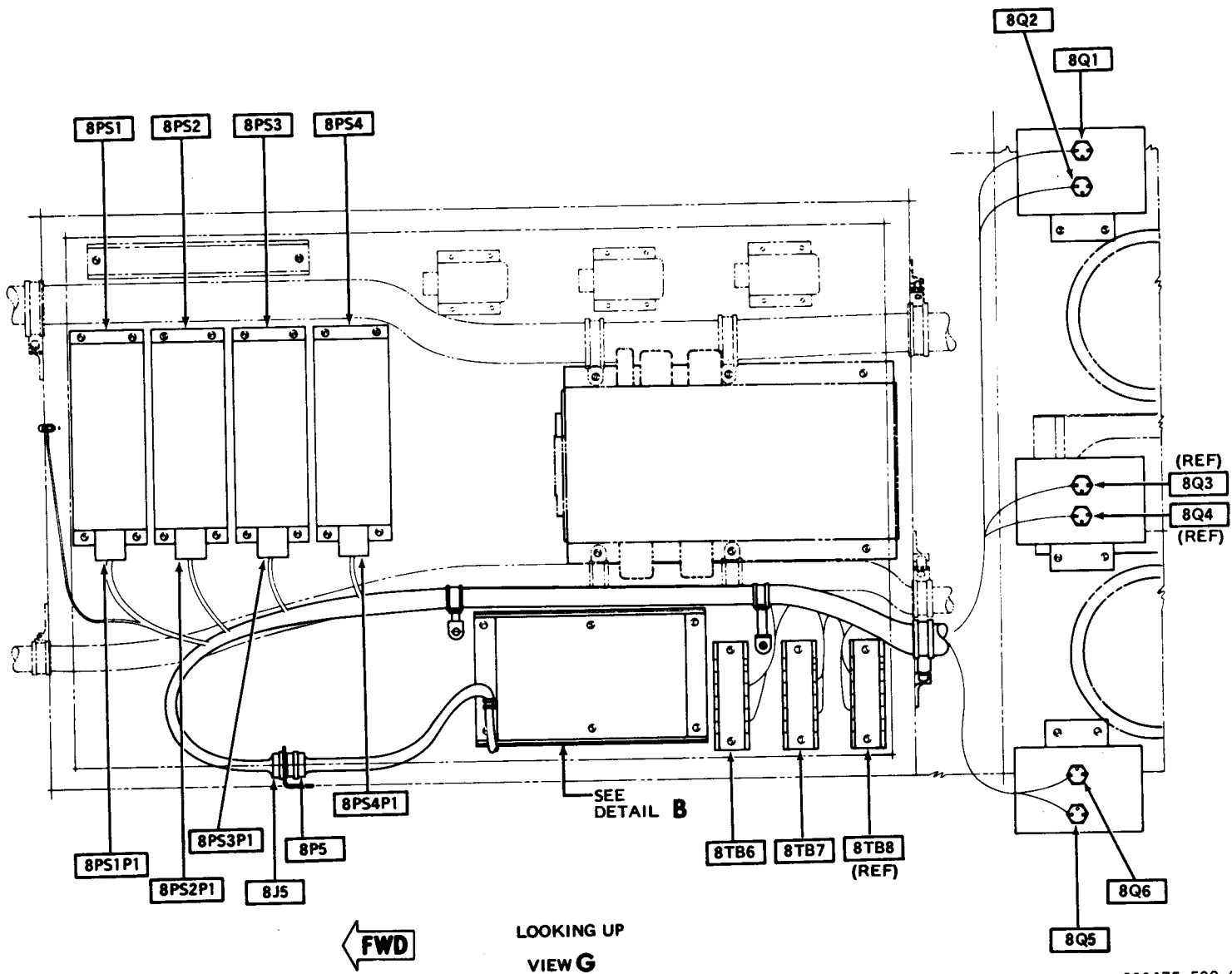
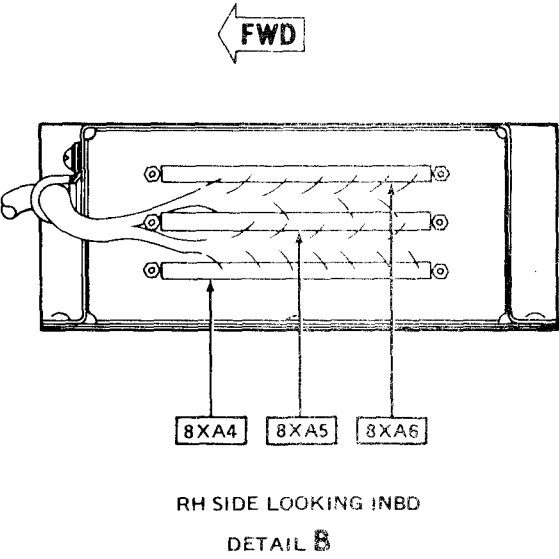
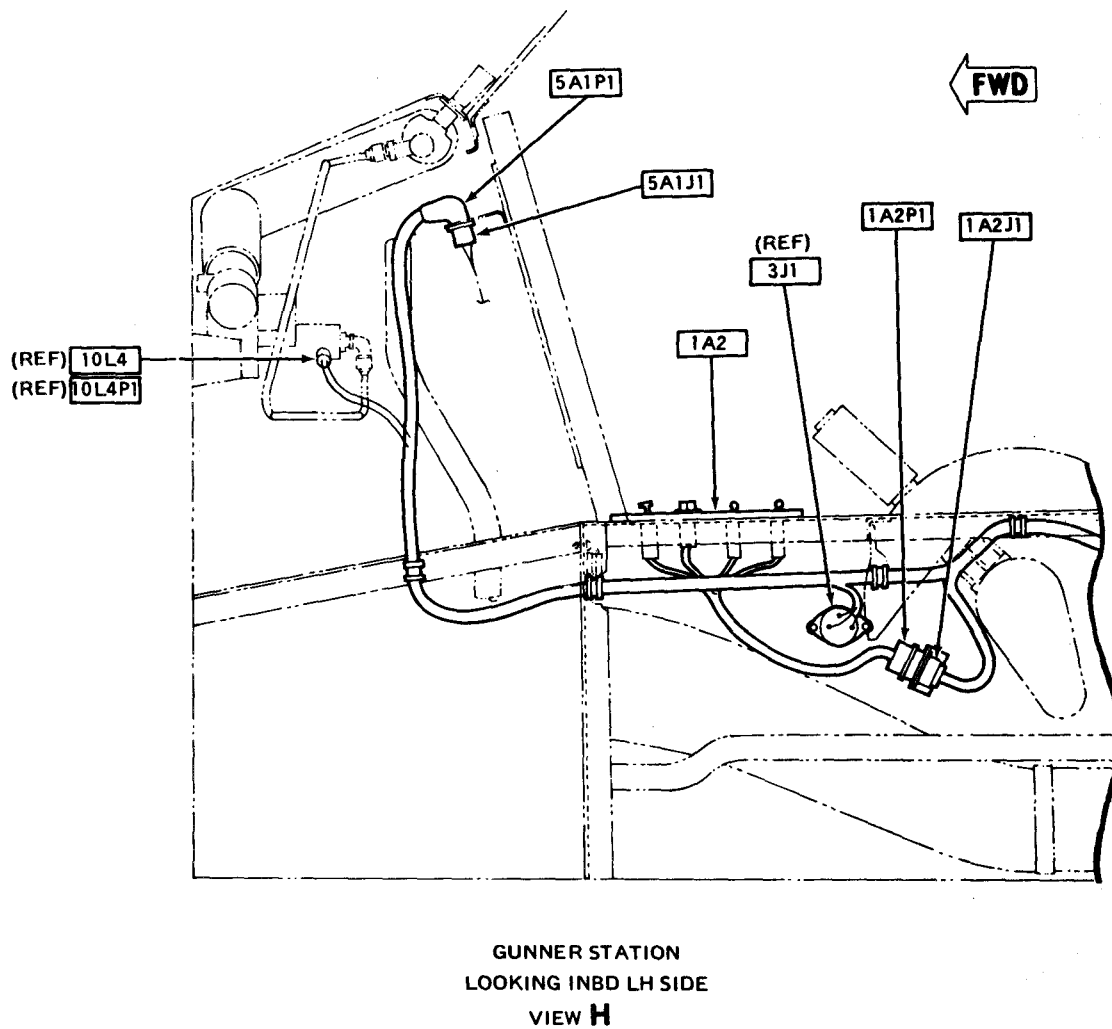


Figure F-55. **M** Interior Lights System (Equipment Location) (Sheet 9 of 13)



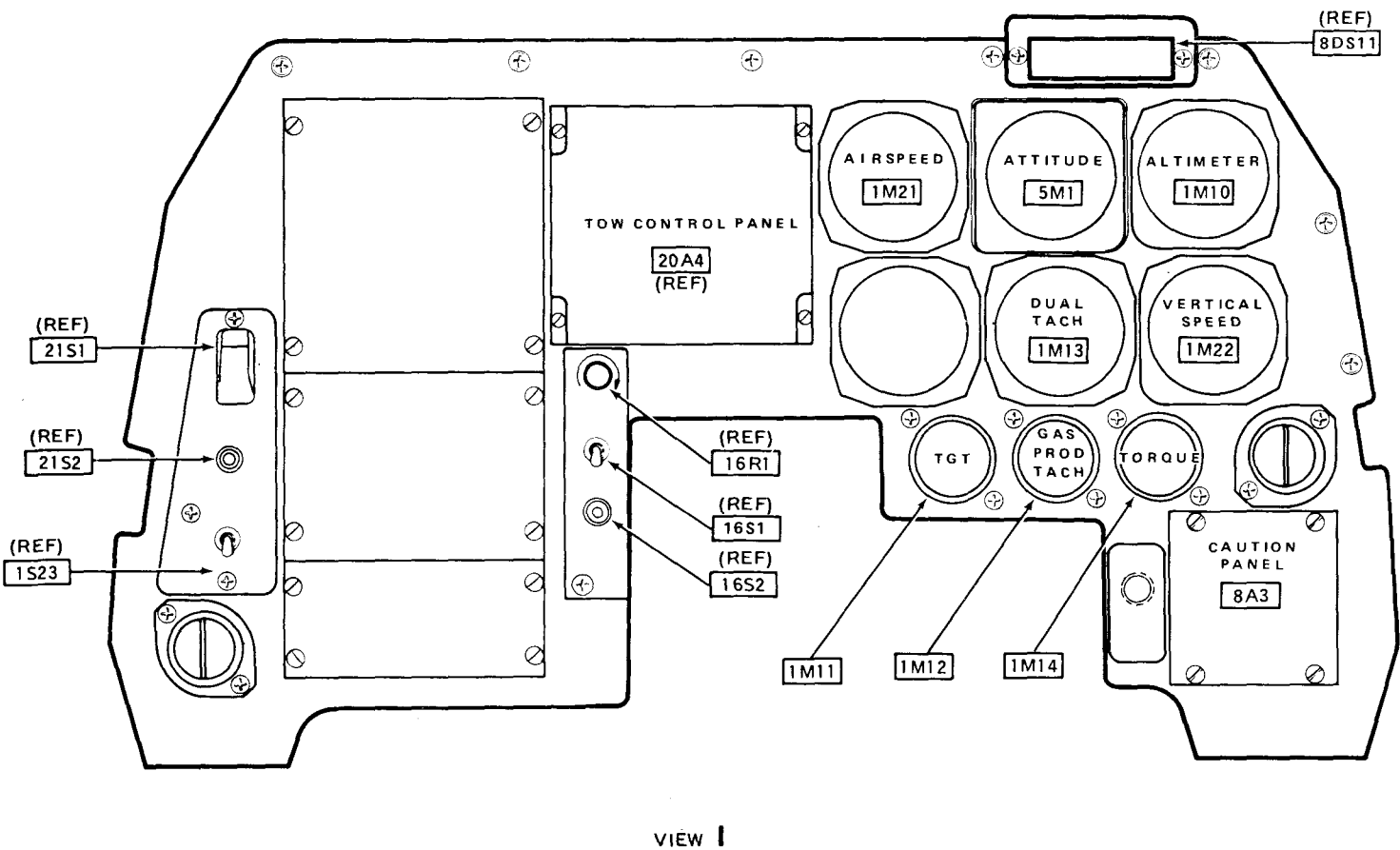
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Figure F-55. **M** Interior Lights System (Equipment Location) (Sheet 10 of 13)



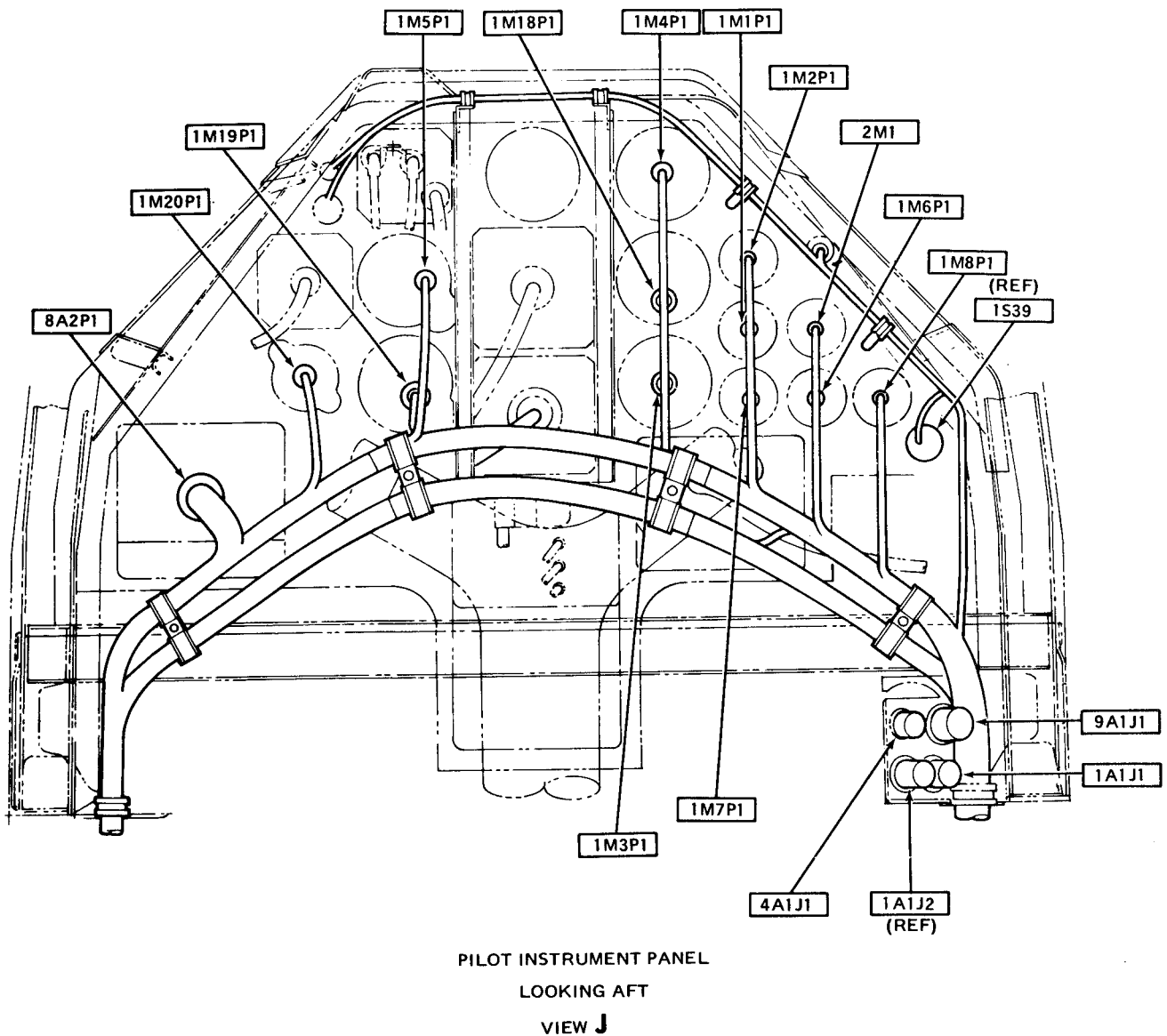
209475-508-11

Figure F-55. **M** Interior Lights System (Equipment Location) (Sheet 11 of 13)



209475-508-12

Figure F-55. **M** Interior Lights System (Equipment Location) (Sheet 12 of 13)



209475-508-13

Figure F-55. **M** Interior Lights System (Equipment Location) (Sheet 13 of 13)

F-233/(F-234 blank)

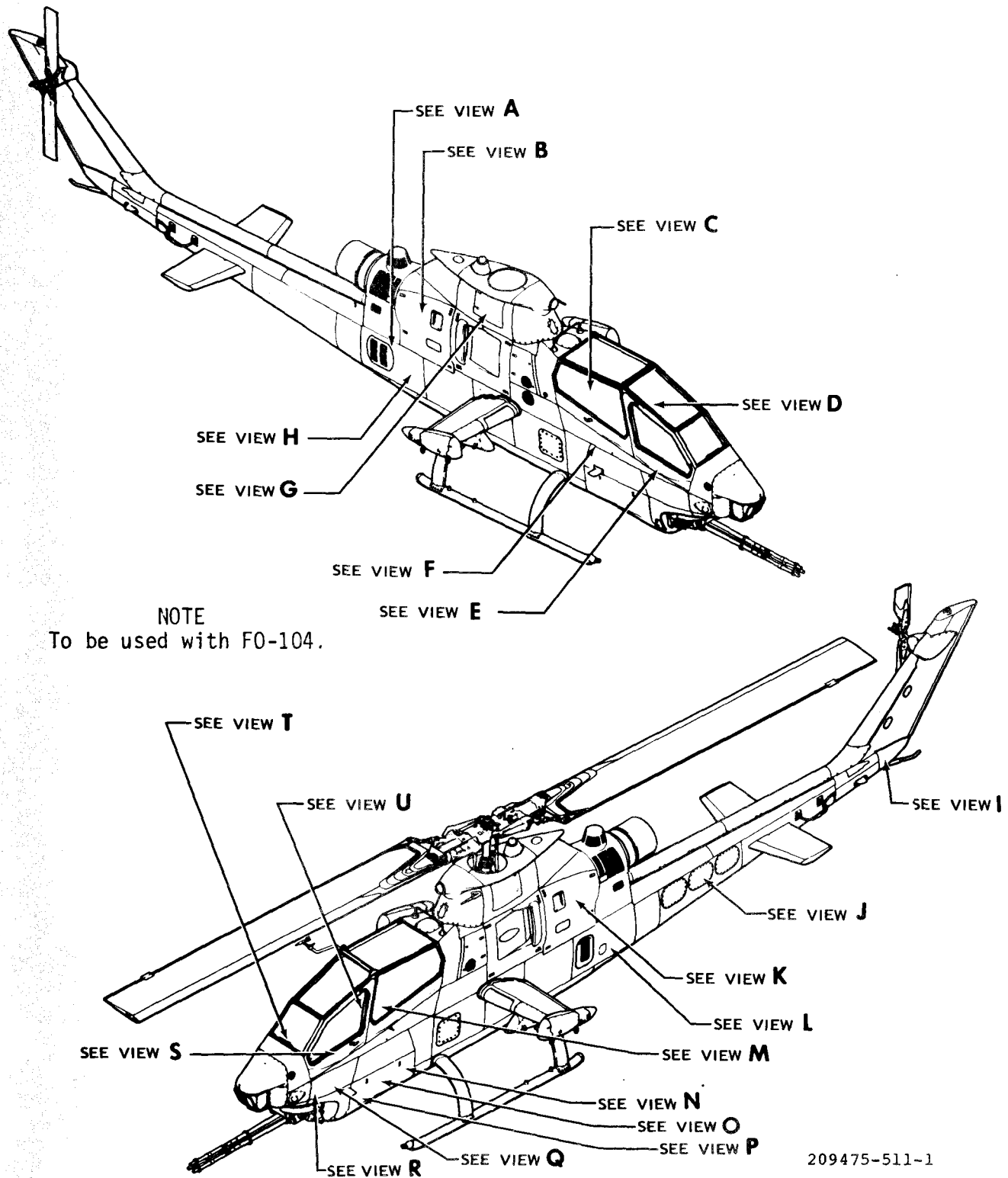
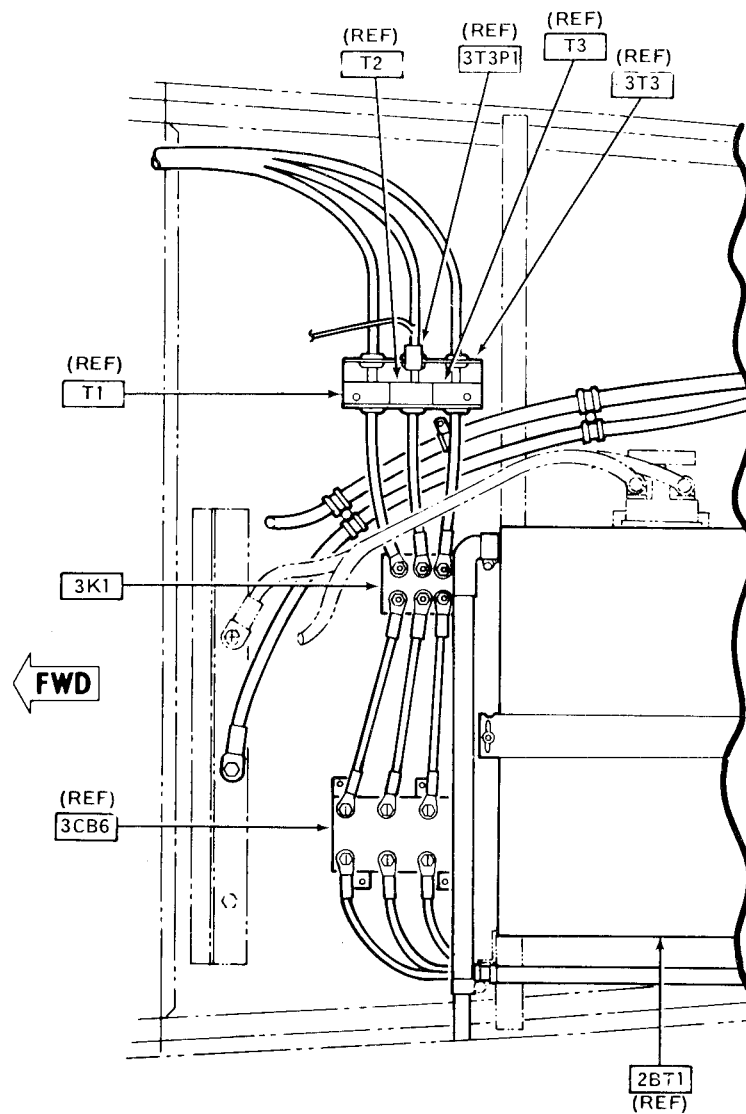


Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 1 of 23)



AFT COMPARTMENT
LOOKING DOWN
VIEW **A**

209475-511-2

Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 2 of 23)

209475 511 3A

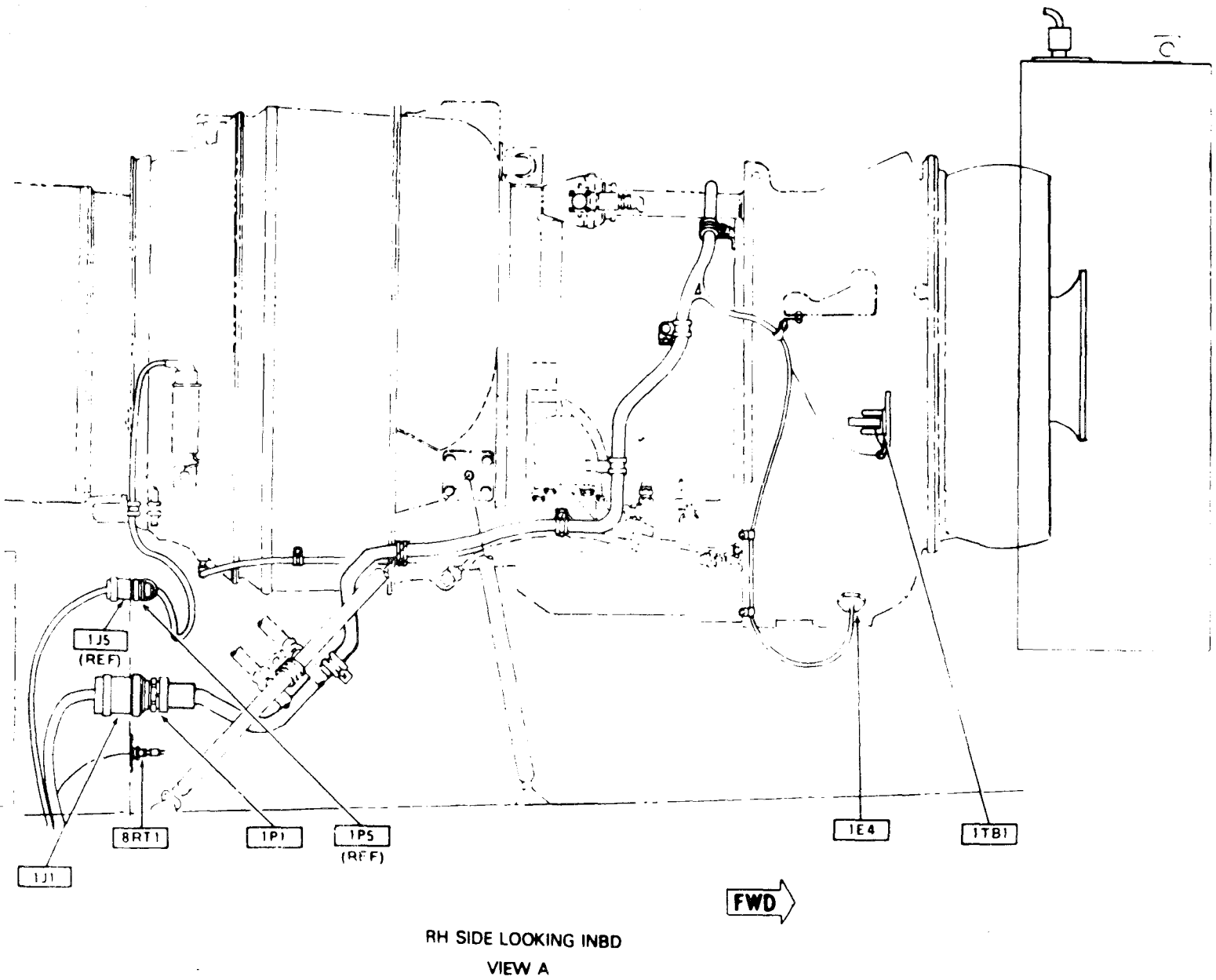
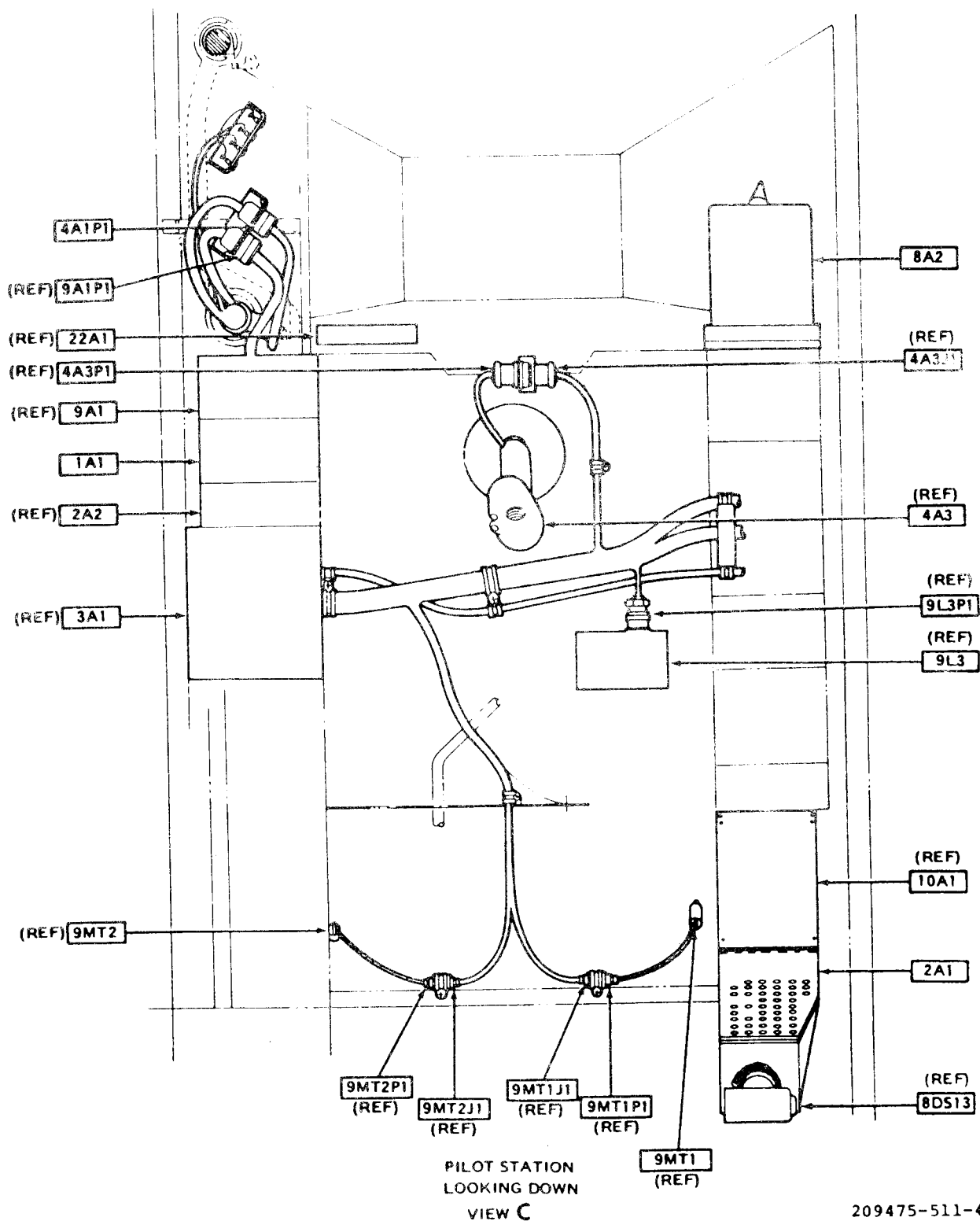


Figure F-56 **M**

Caution Lights System (Equipment Location) (Sheet 3 of 23)

Change 16

F-237



209475-511-4

Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 4 of 23)

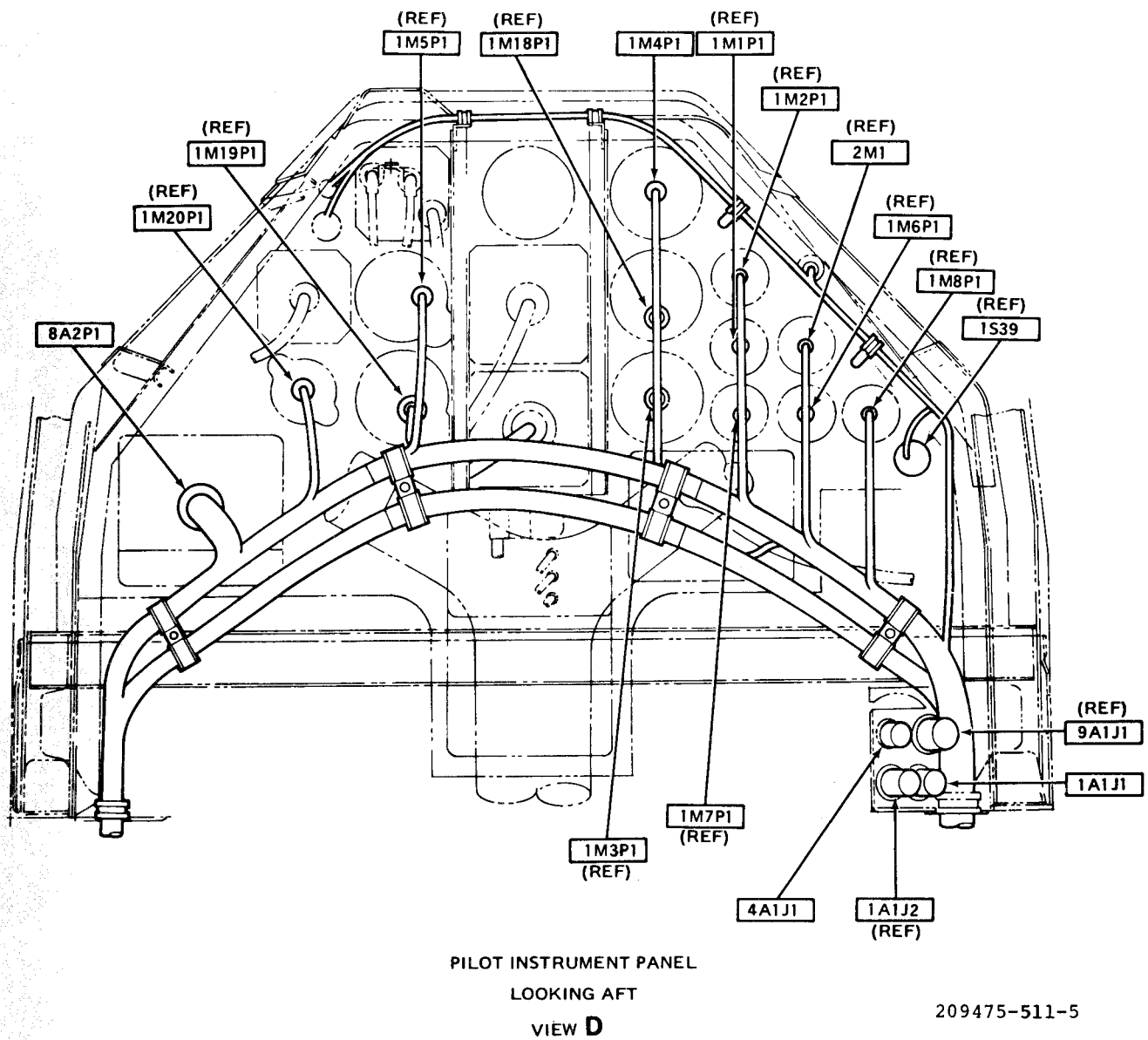


Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 5 of 23)

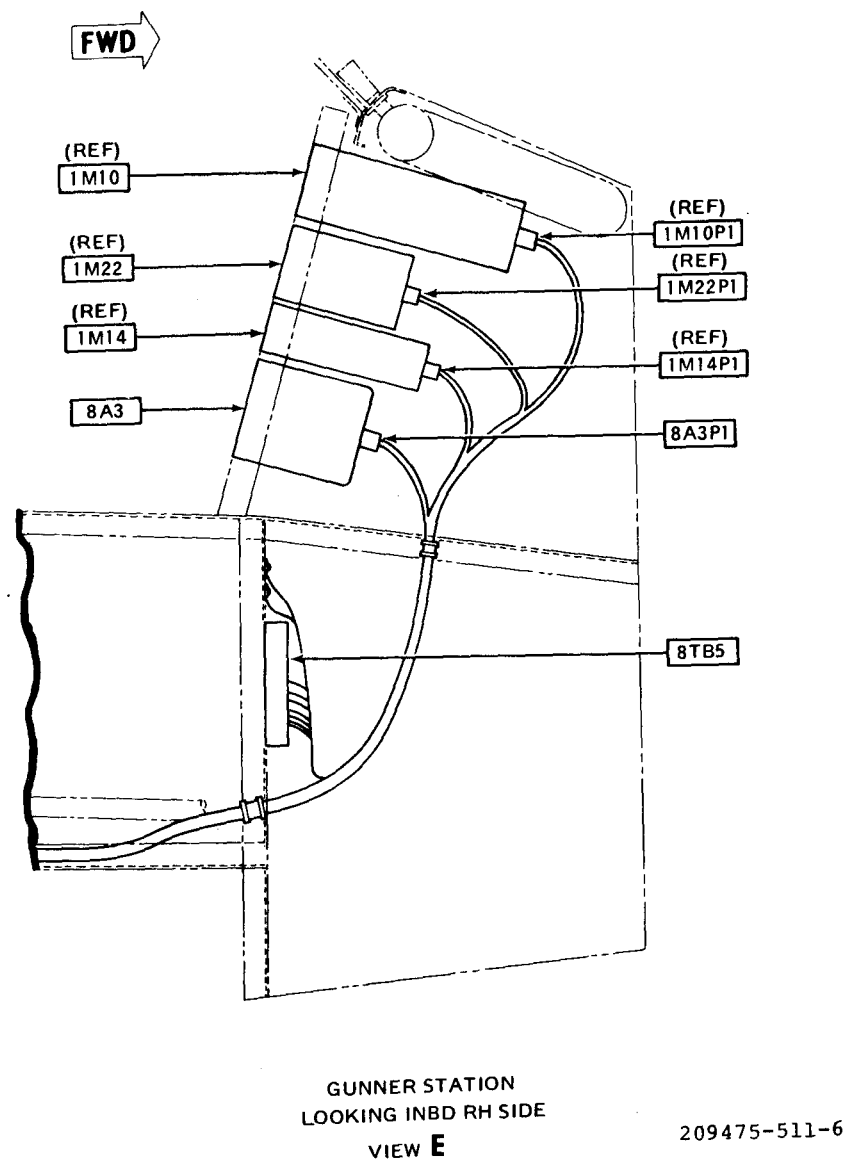
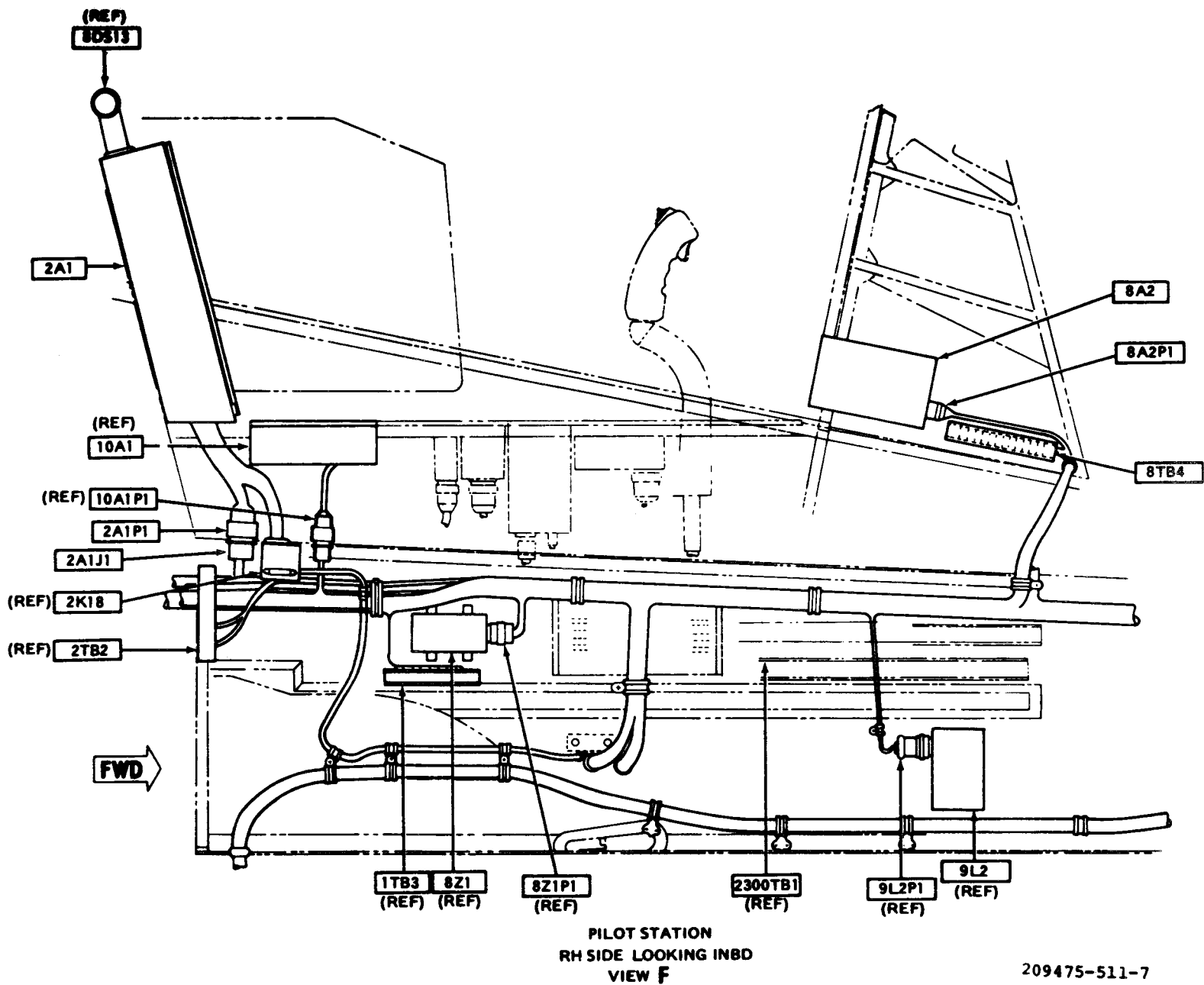
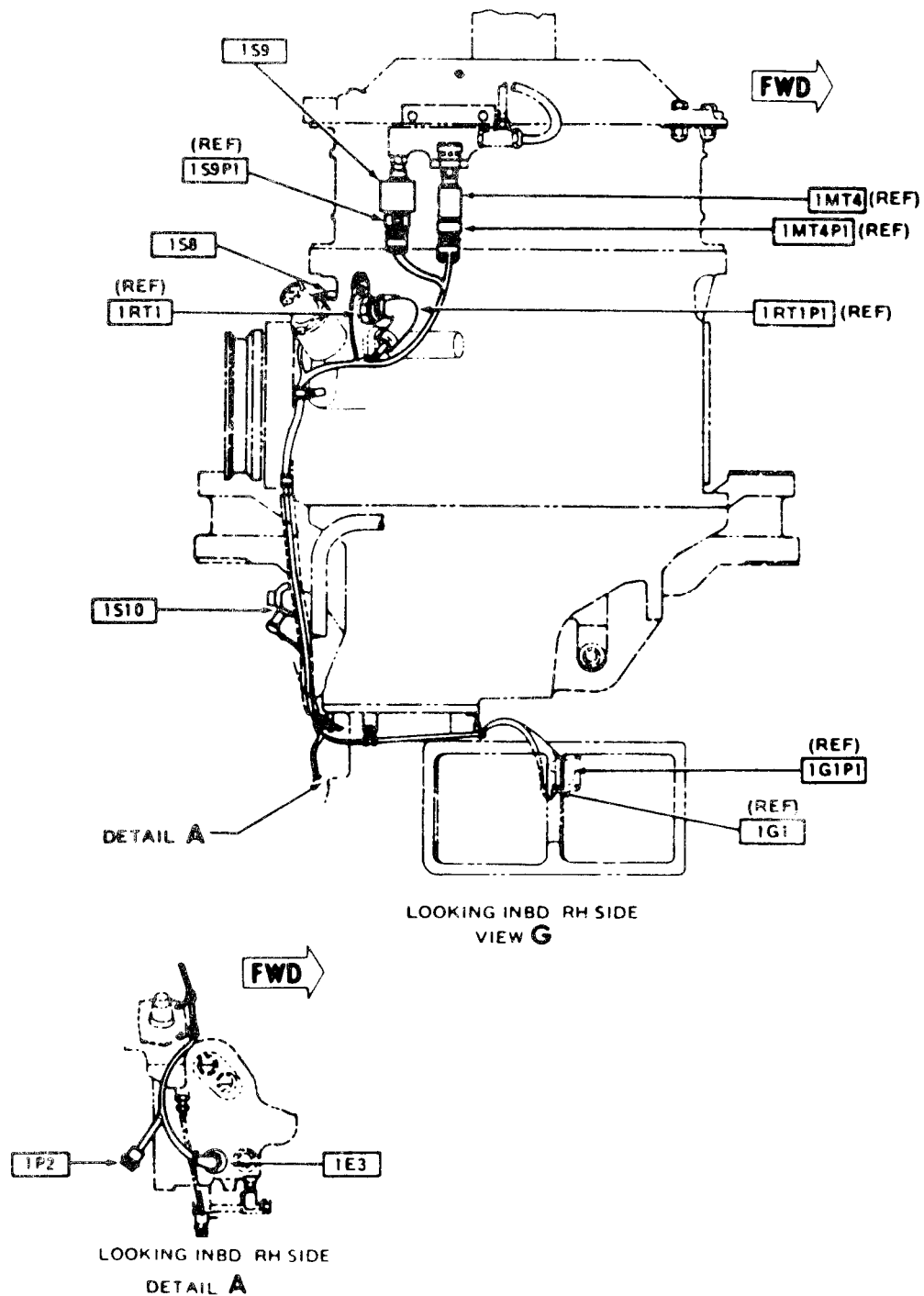


Figure F-56. **M** Caution Lights System(Equipment Location) (Sheet 6 of 23)



209475-511-7

Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 7 of 23)



209475 511-8A

Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 8 of 23)

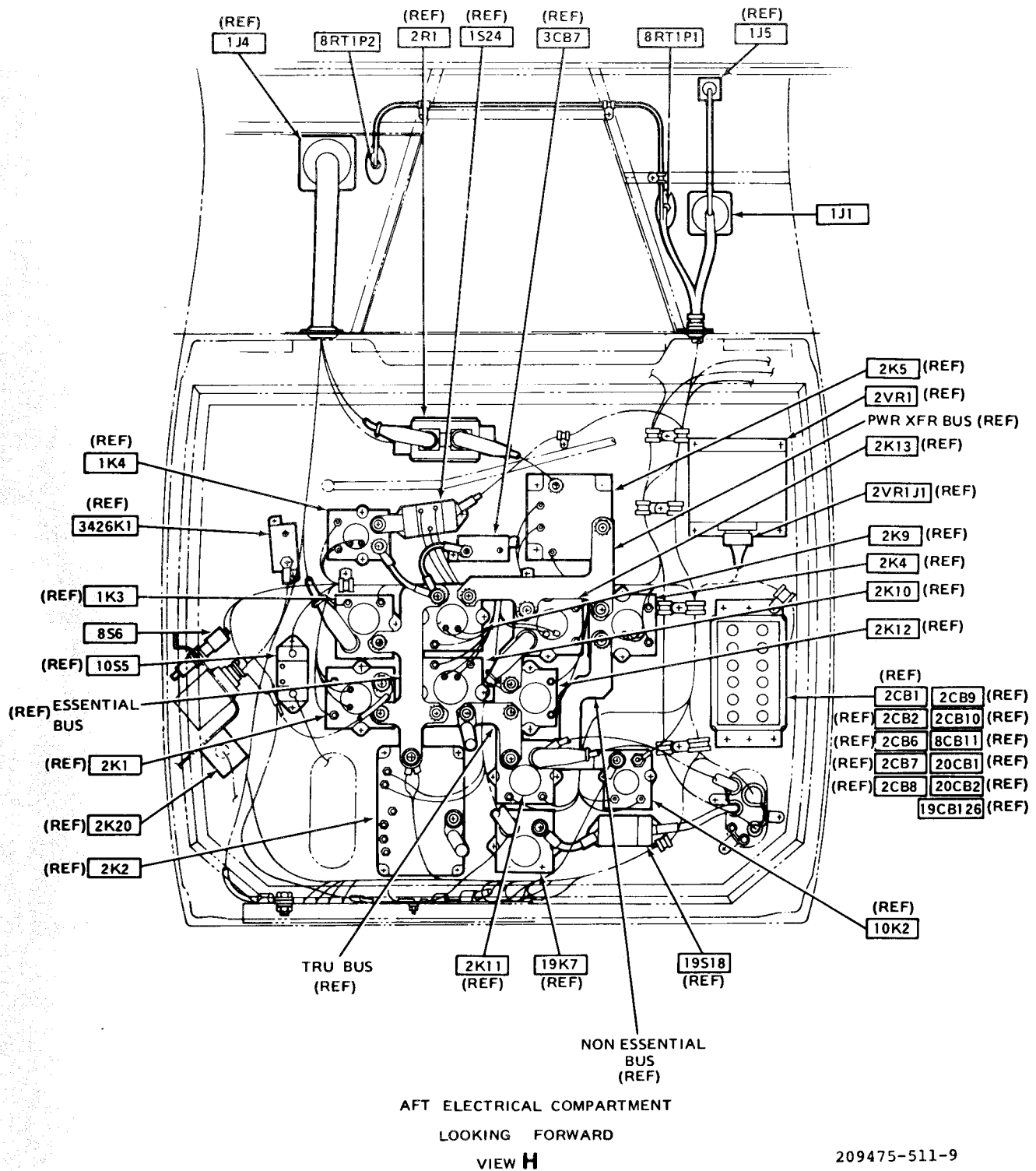


Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 9 of 23)

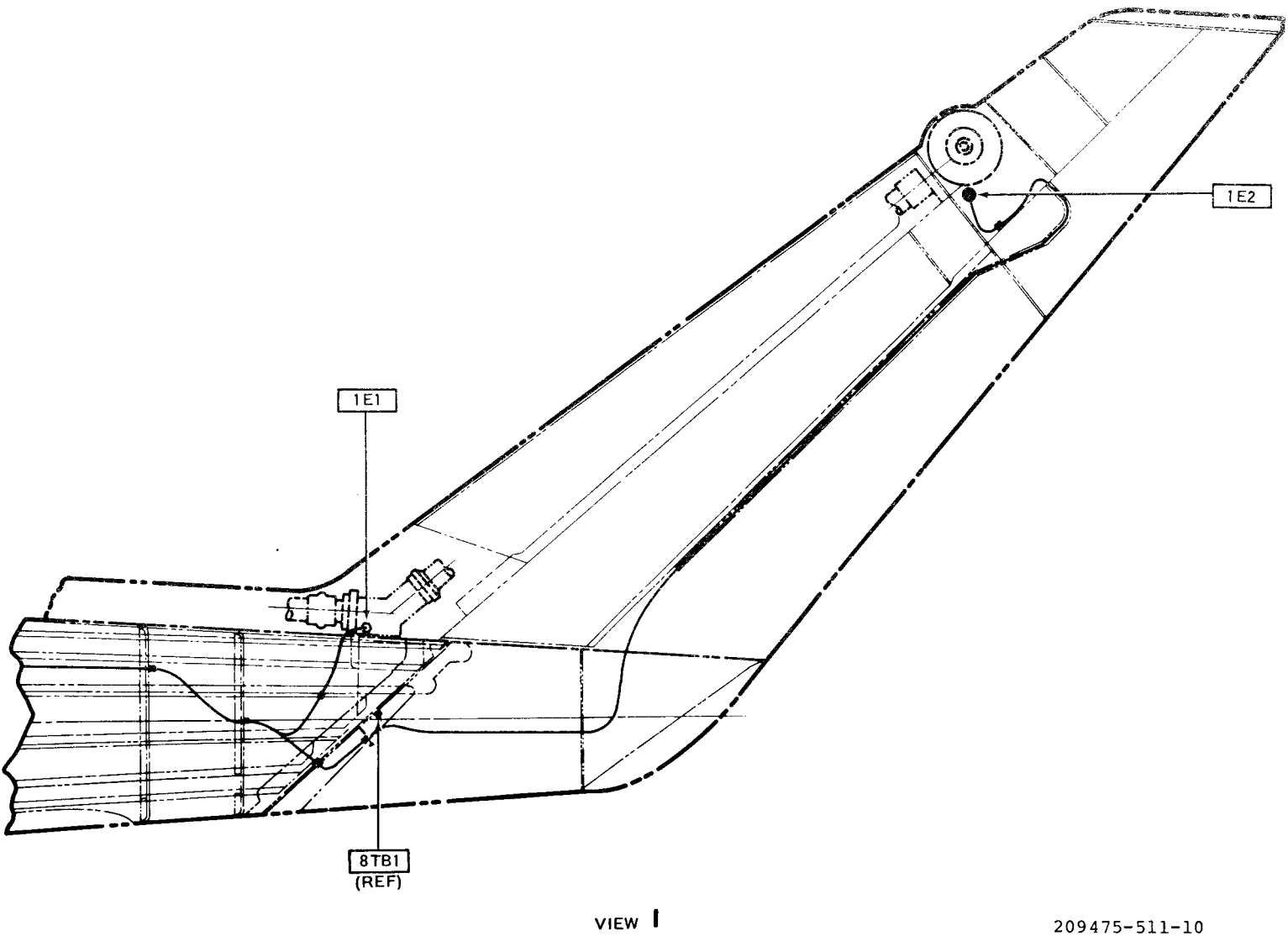
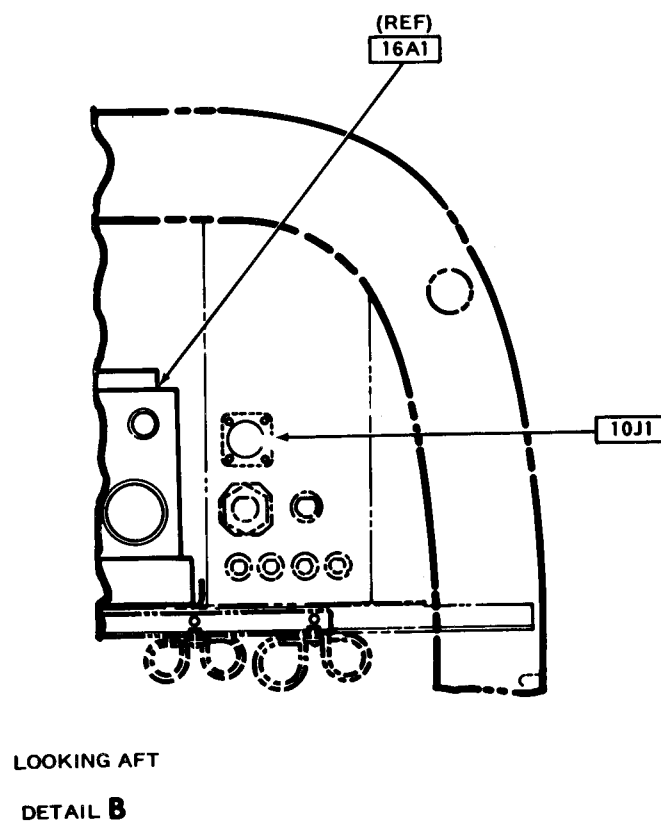
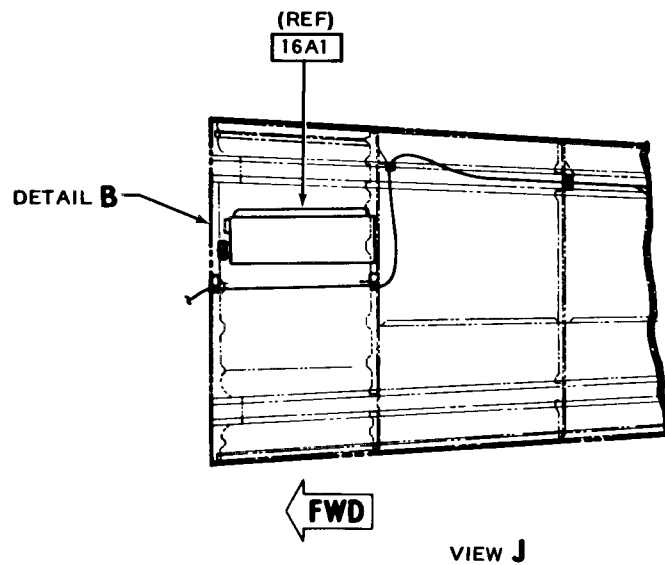


Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 10 of 23)



209475-511-11

Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 11 of 23)

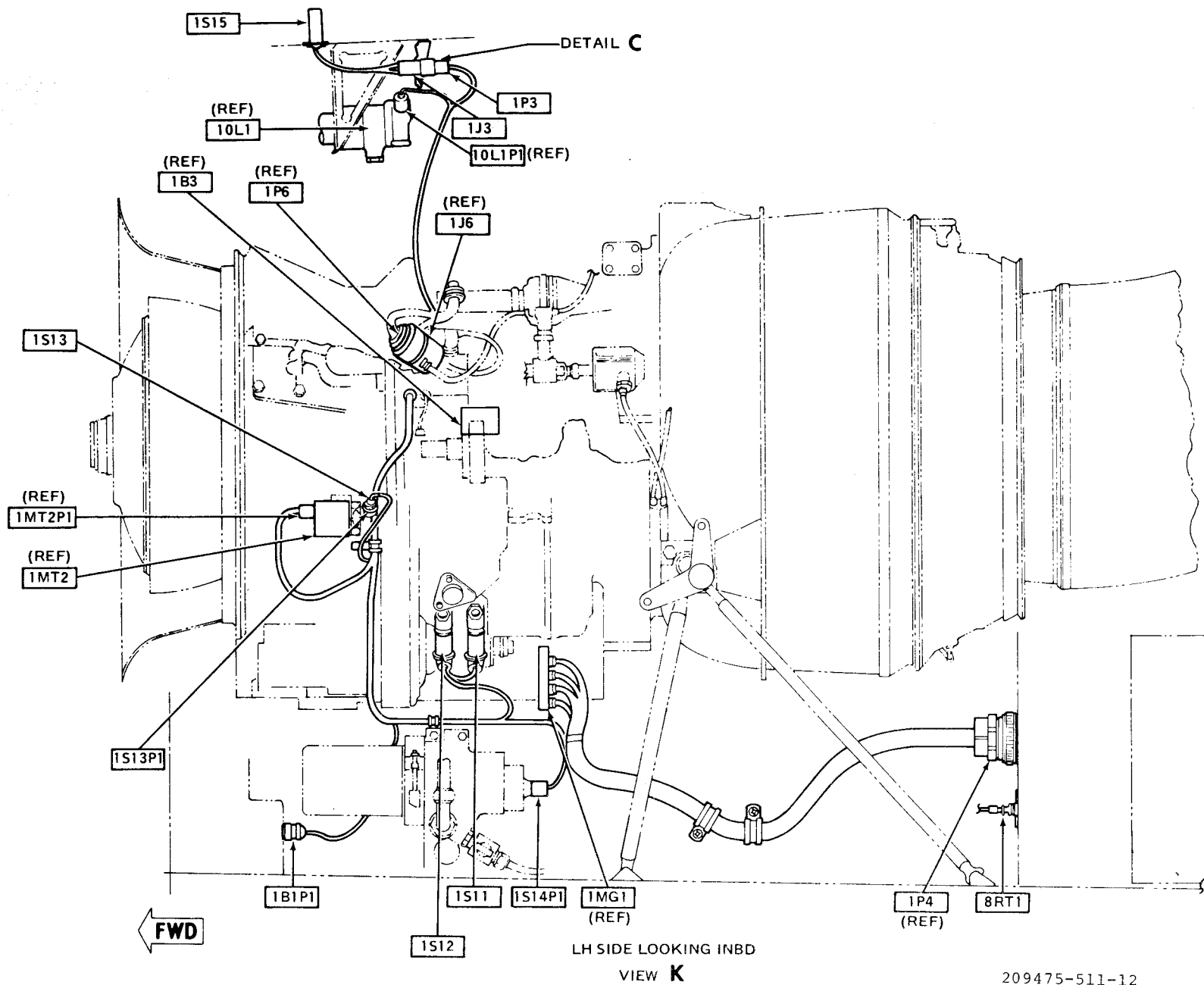
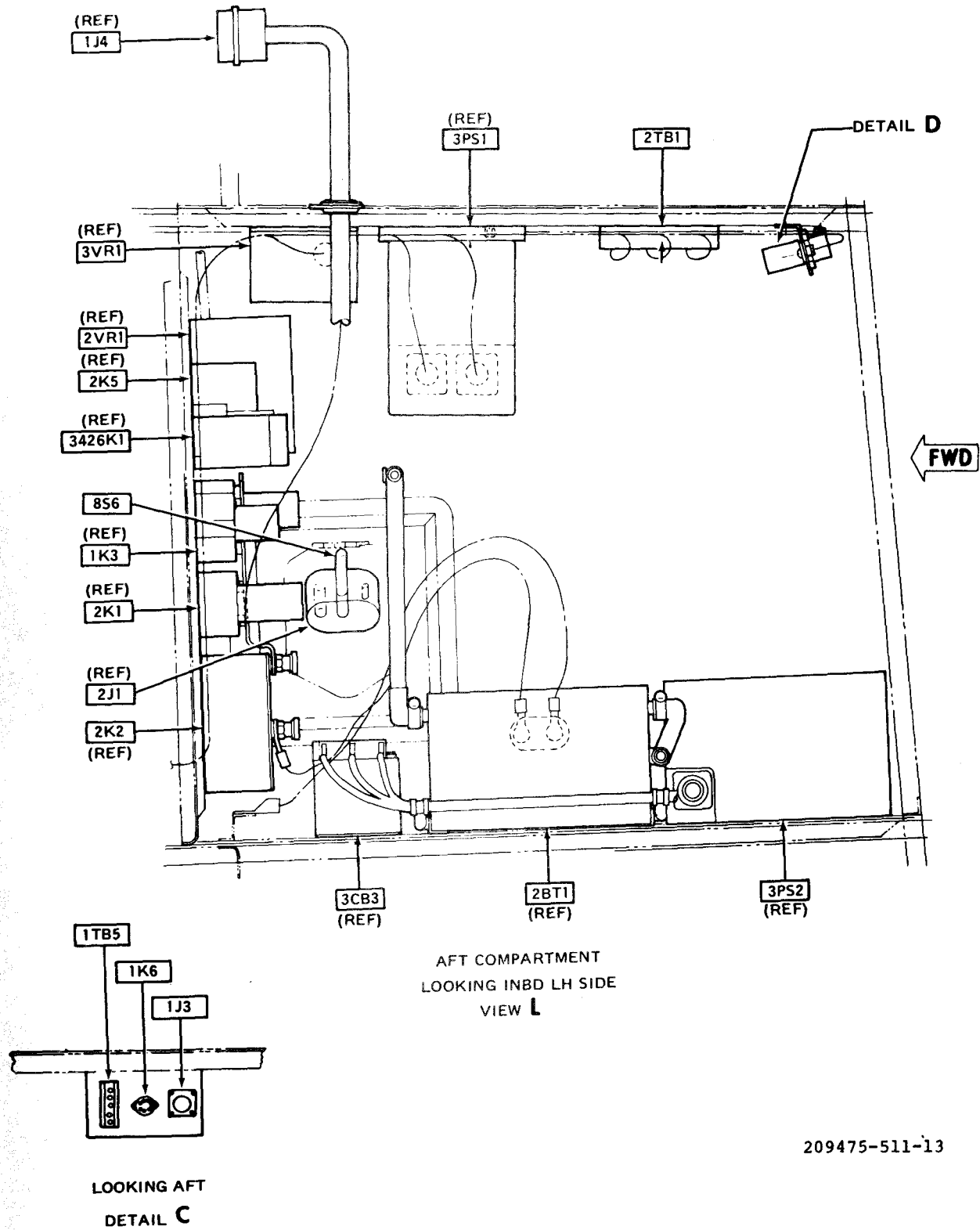
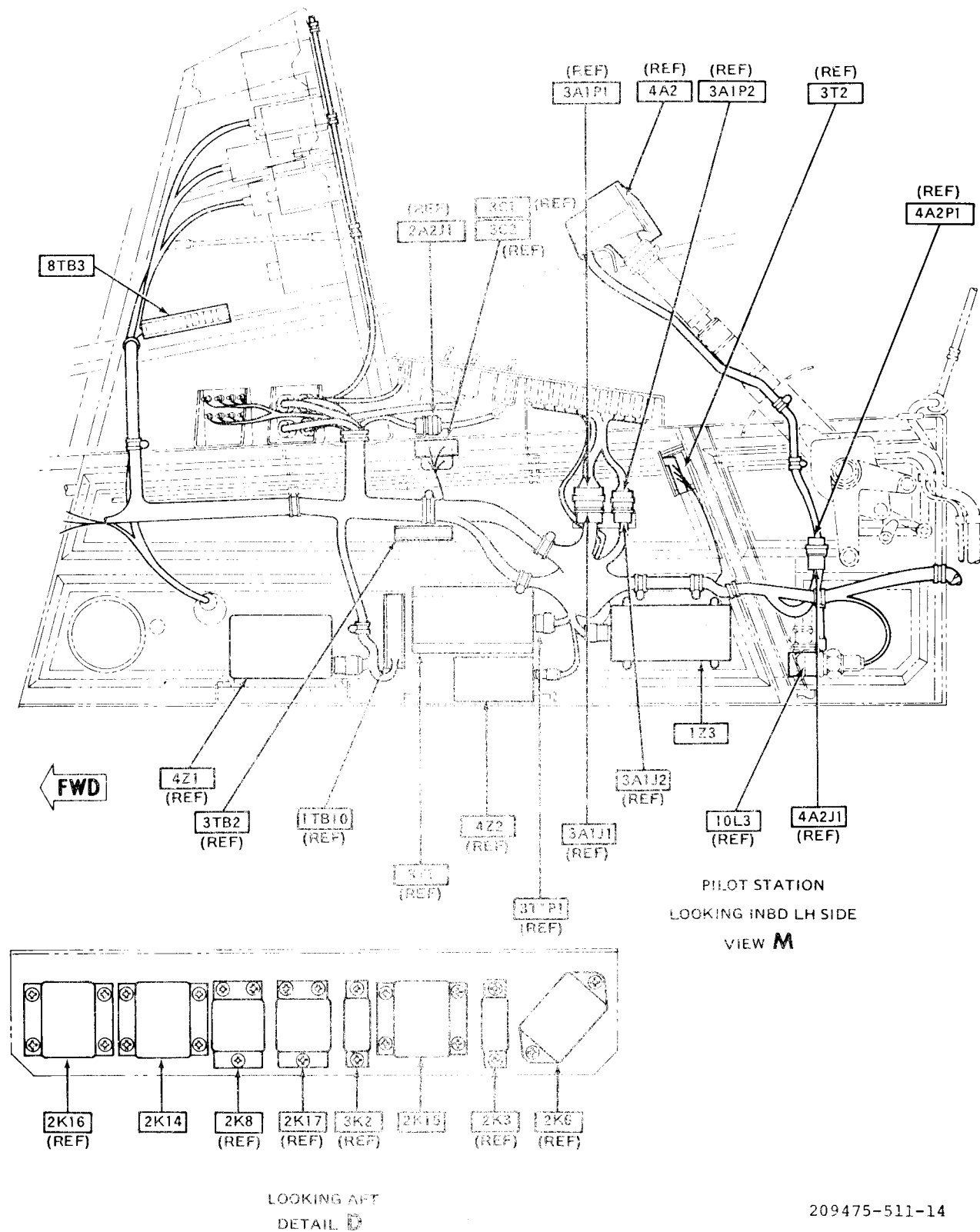


Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 12 of 23)



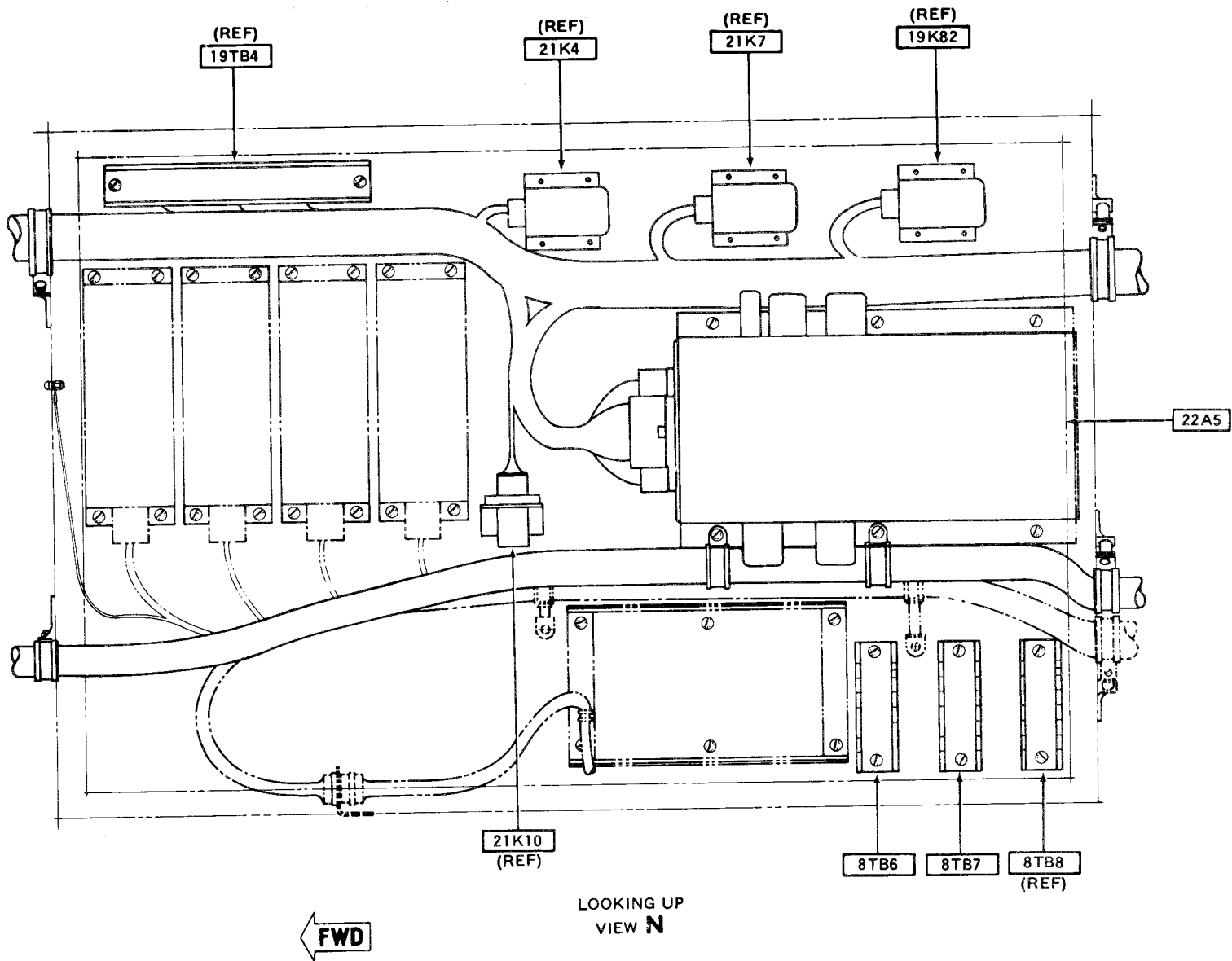
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Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 13 of 23)



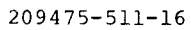
209475-511-14

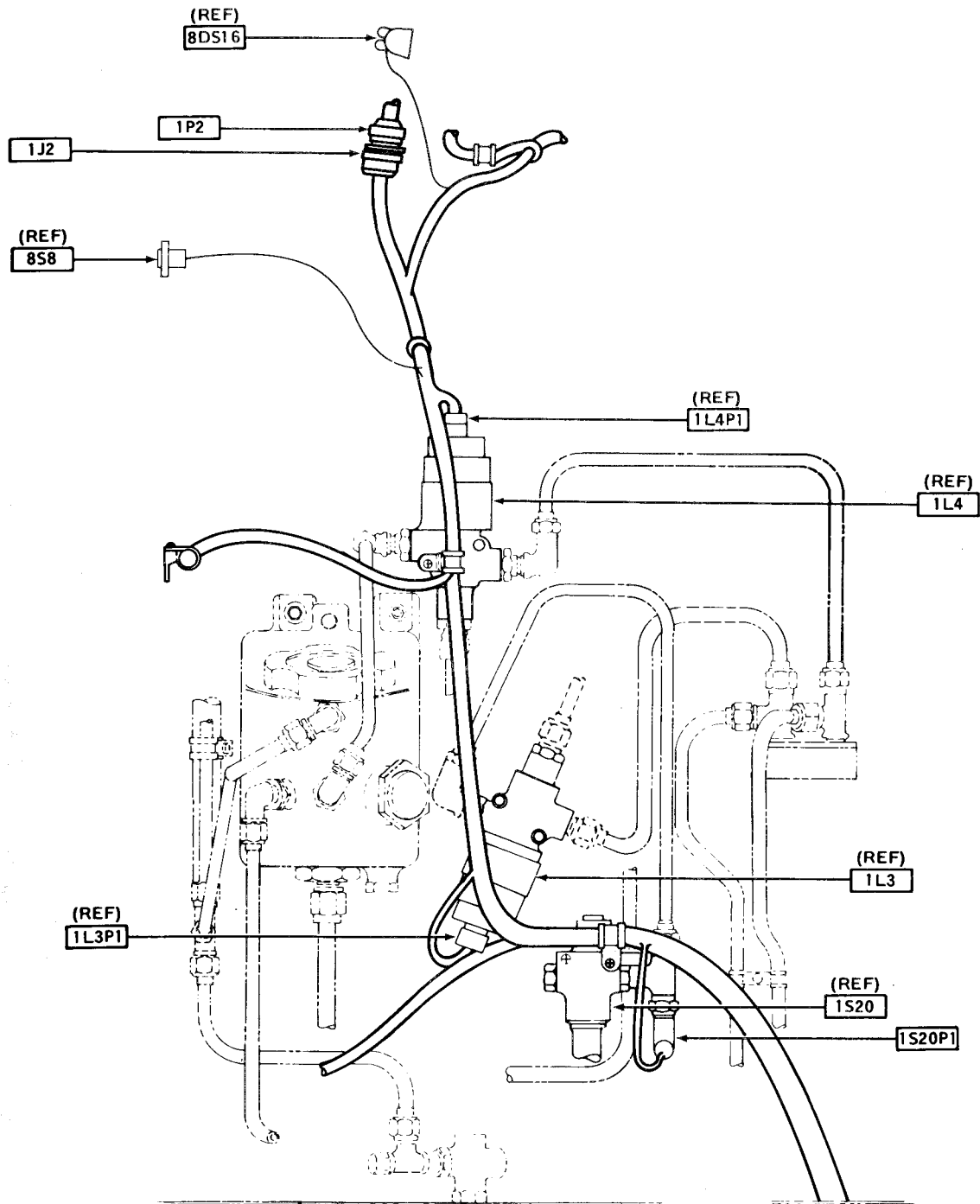
Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 14 of 23)



209475-511-15

Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 15 of 23)

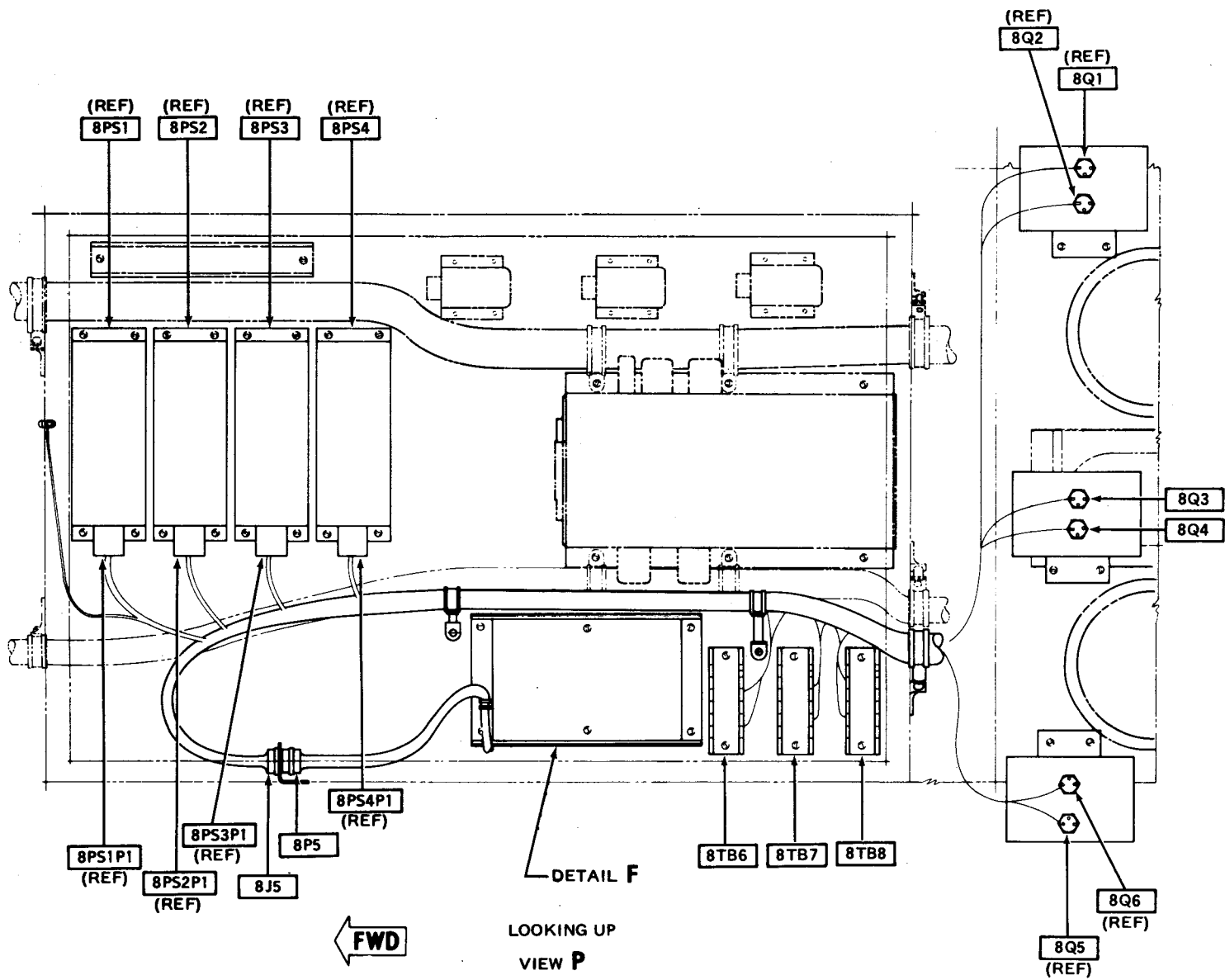




STA 213.94
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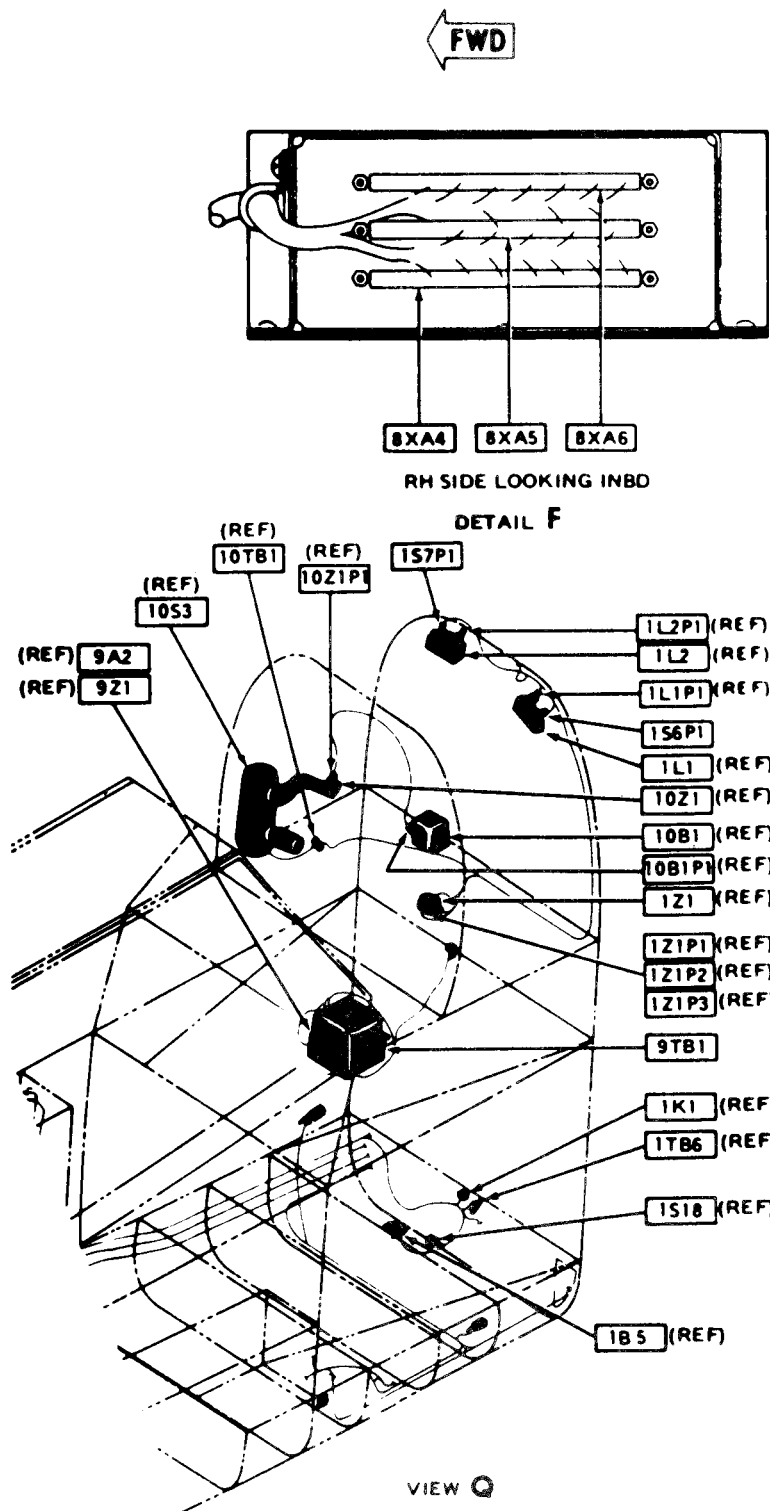
209475-511-17

Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 17 of 23)



209475-511-18

Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 18 of 23)



209475-511-19A

Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 19 of 23)

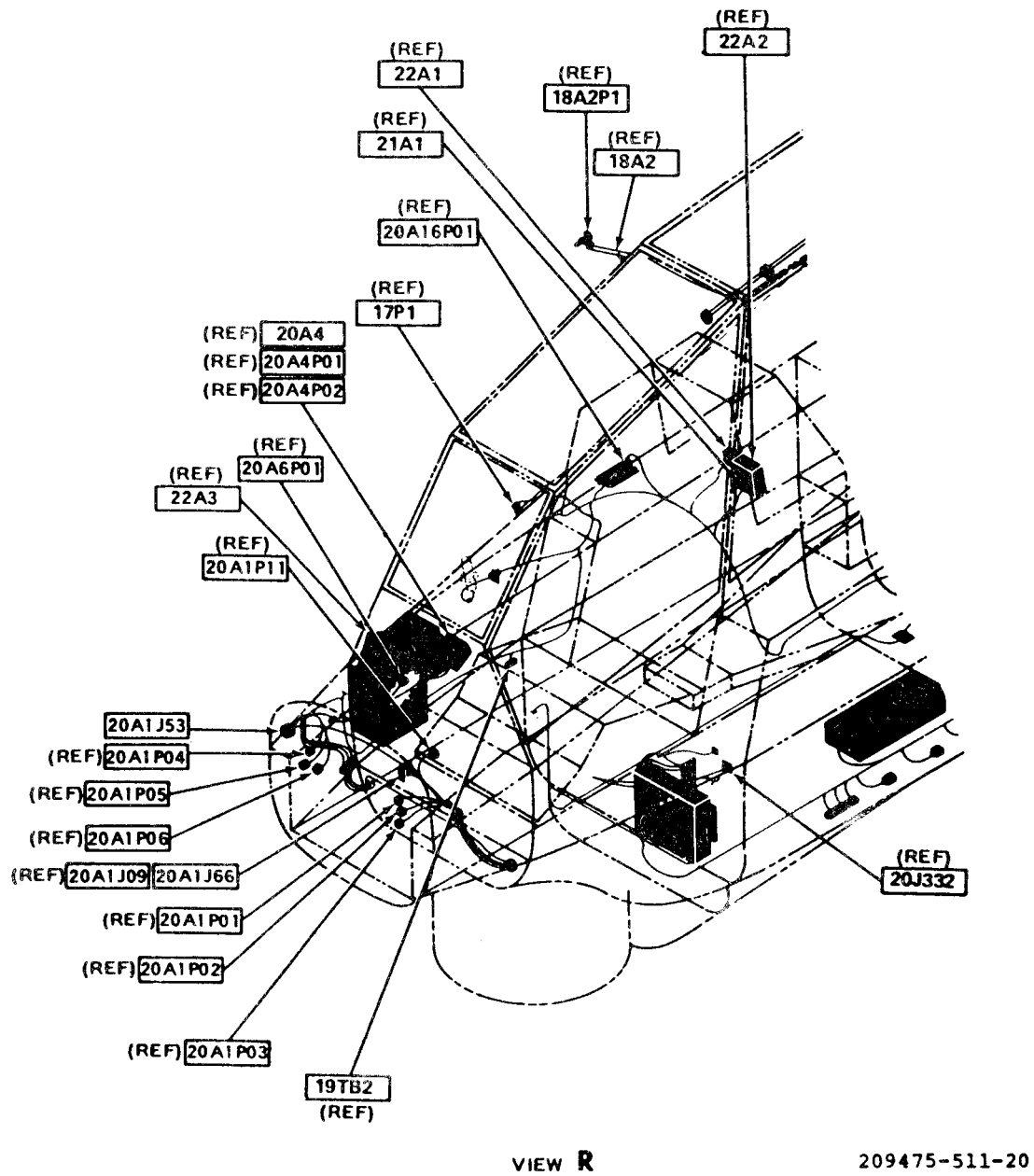
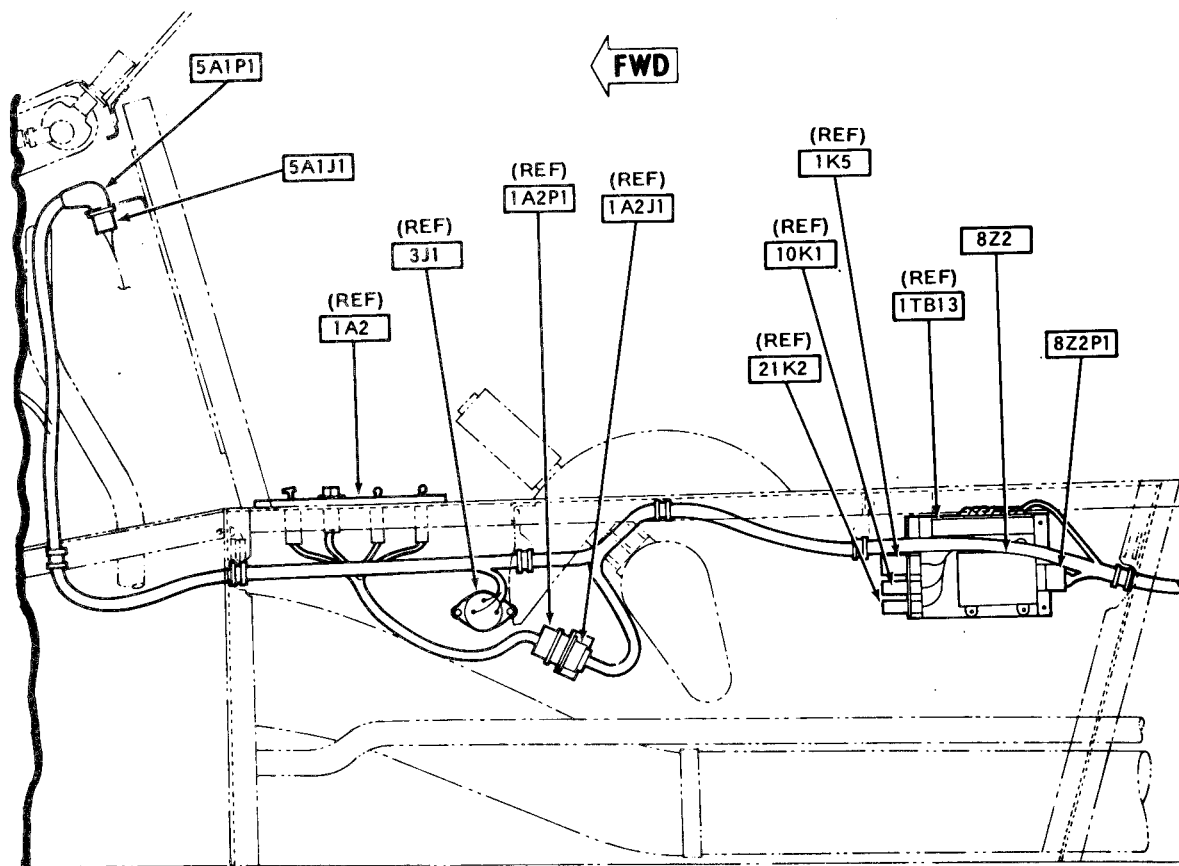


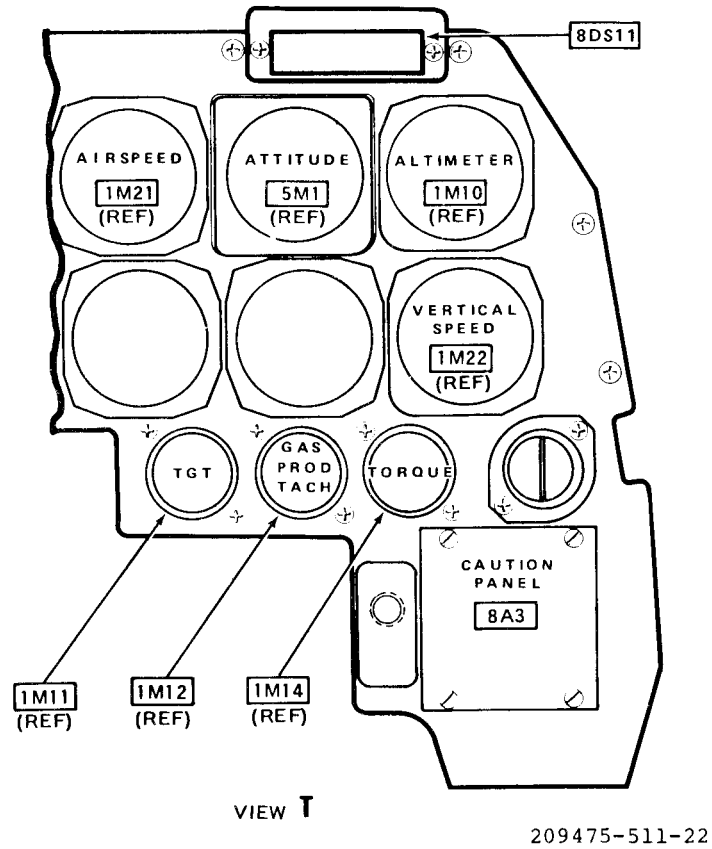
Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 20 of 23)



GUNNER STATION
LOOKING INBD LH SIDE
VIEW S

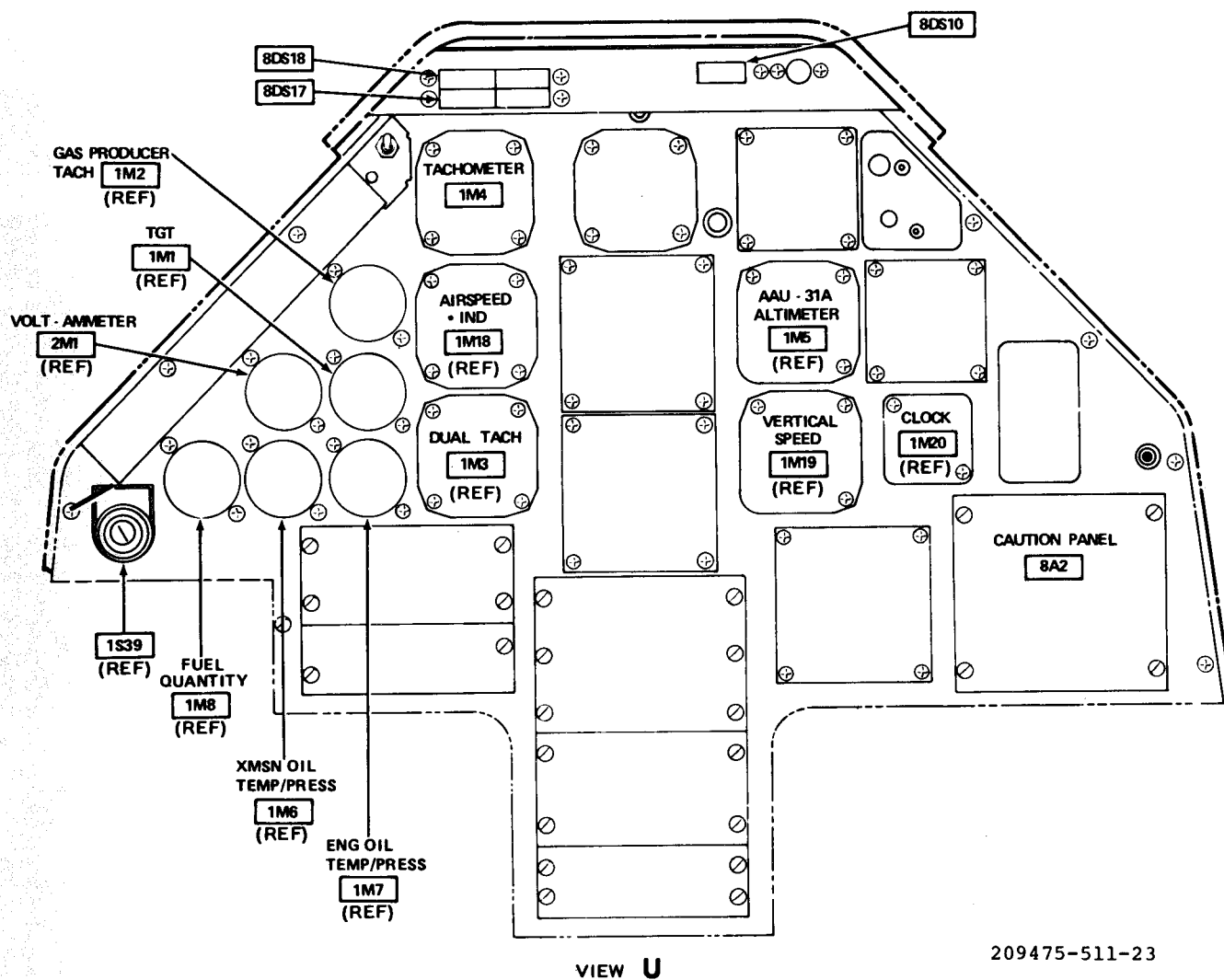
209475-511-21

Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 21 of 23)



209475-511-22

Figure F-56. ^M Caution Lights System (Equipment Location) (Sheet 22 of 23)



209475-511-23

Figure F-56. **M** Caution Lights System (Equipment Location) (Sheet 23 of 23)

F-257/(F-258 blank)

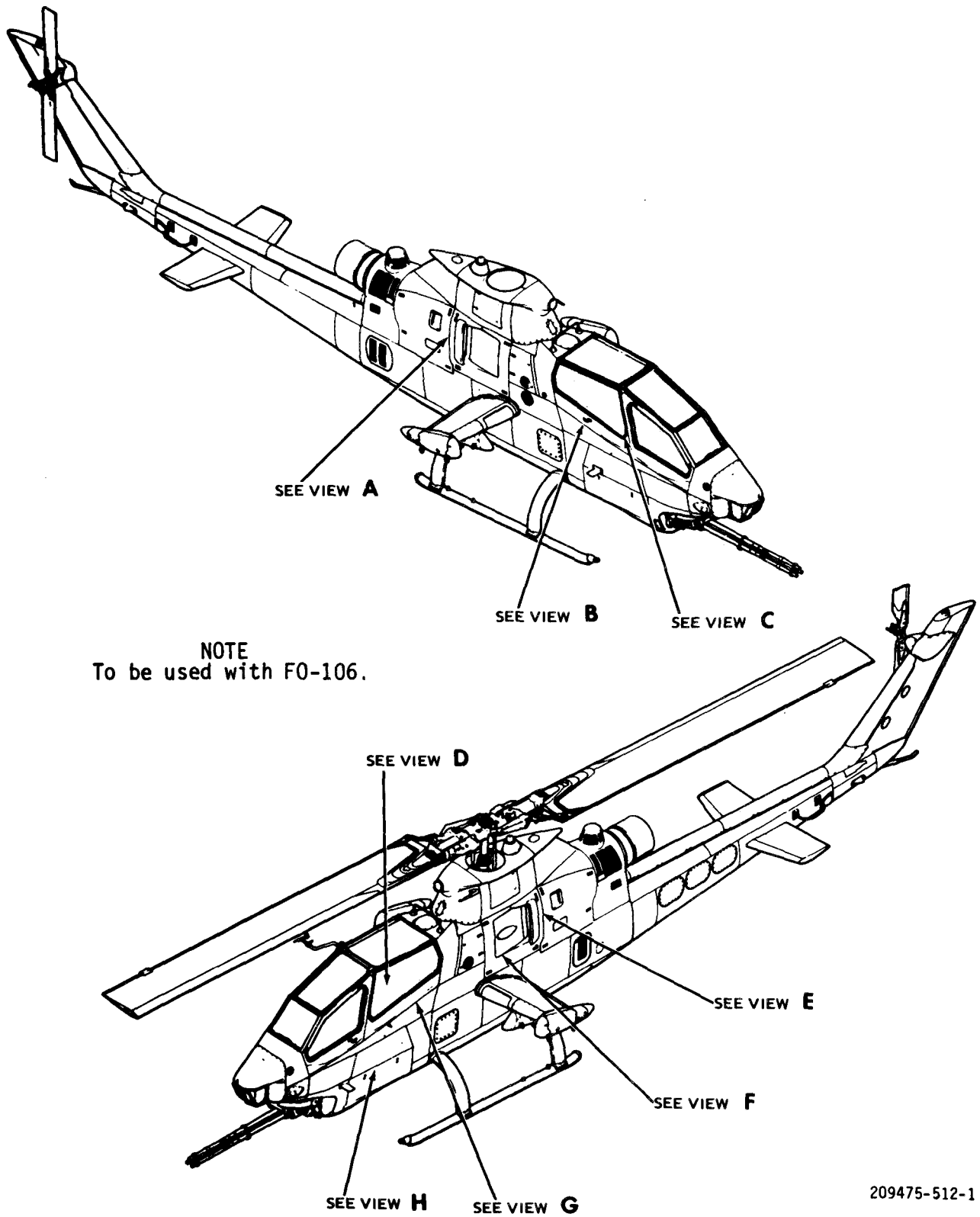
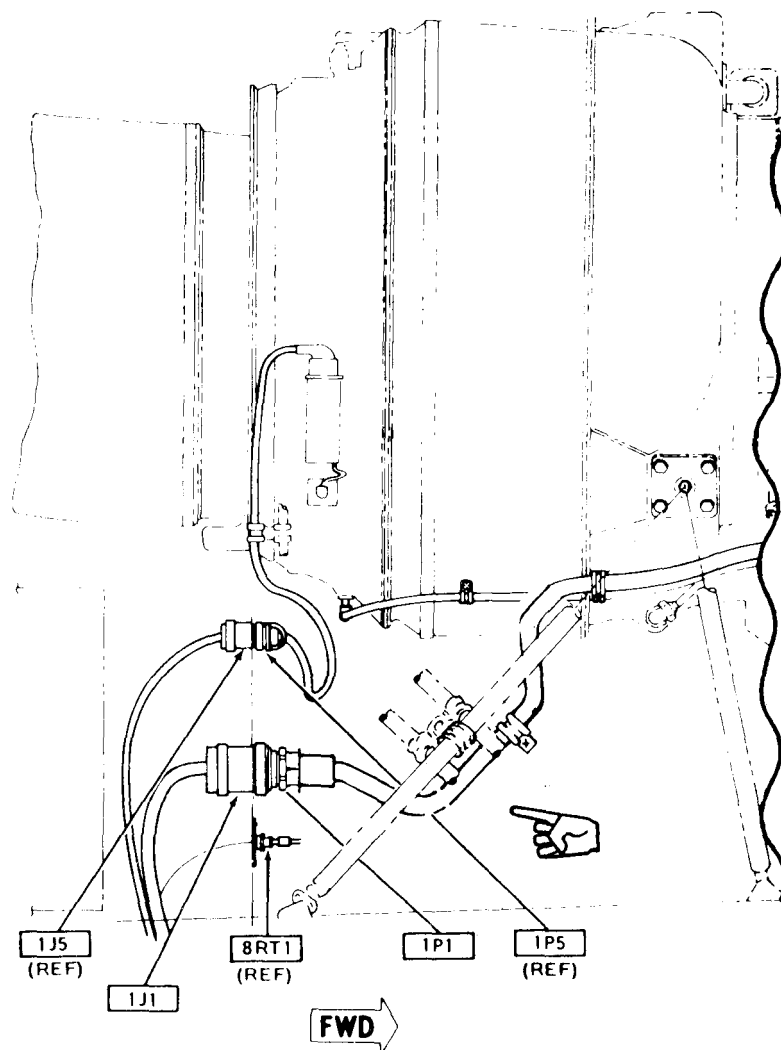
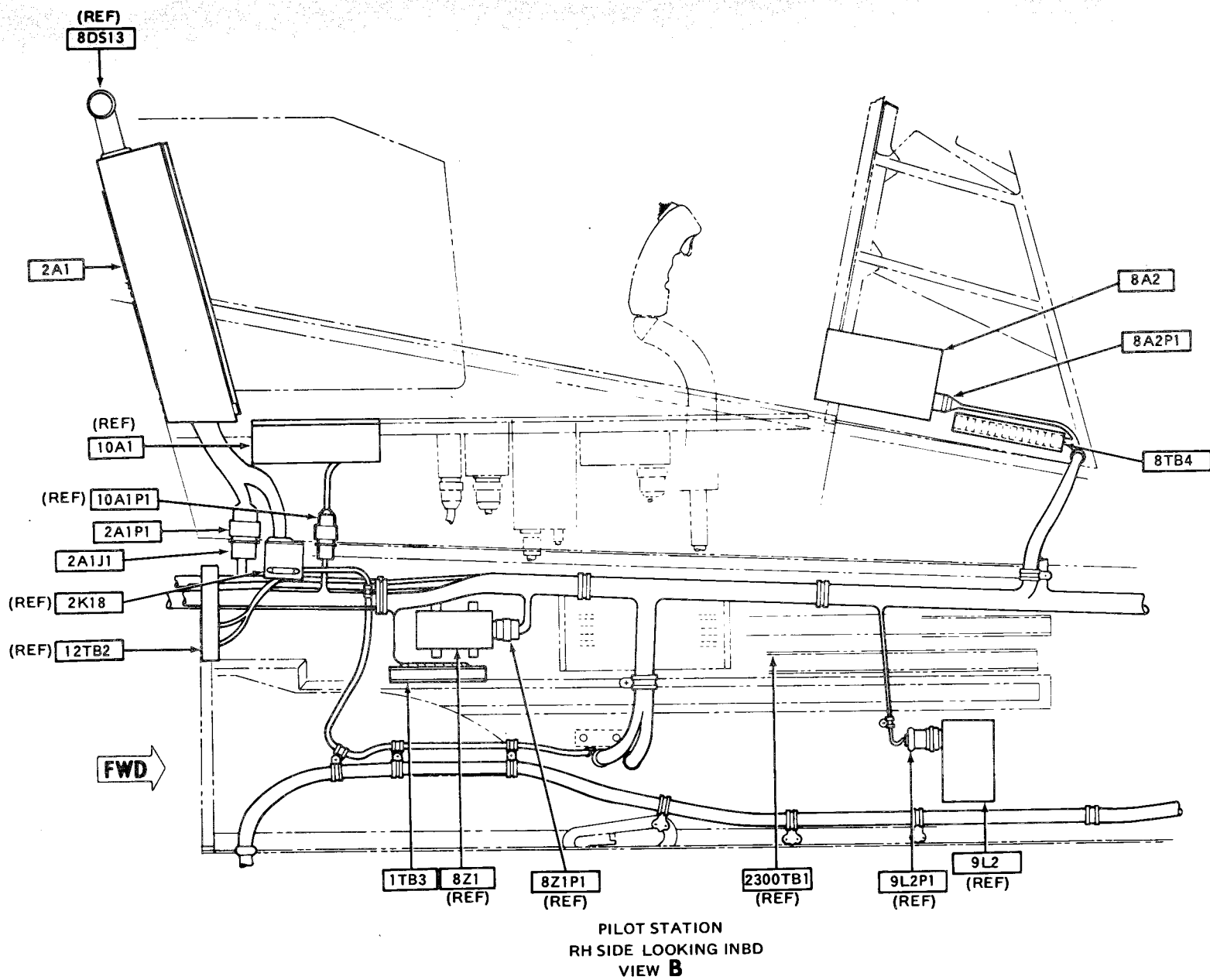


Figure F-57. **M** RPM Limit Warning System (Equipment Location) (Sheet 1 of 9)



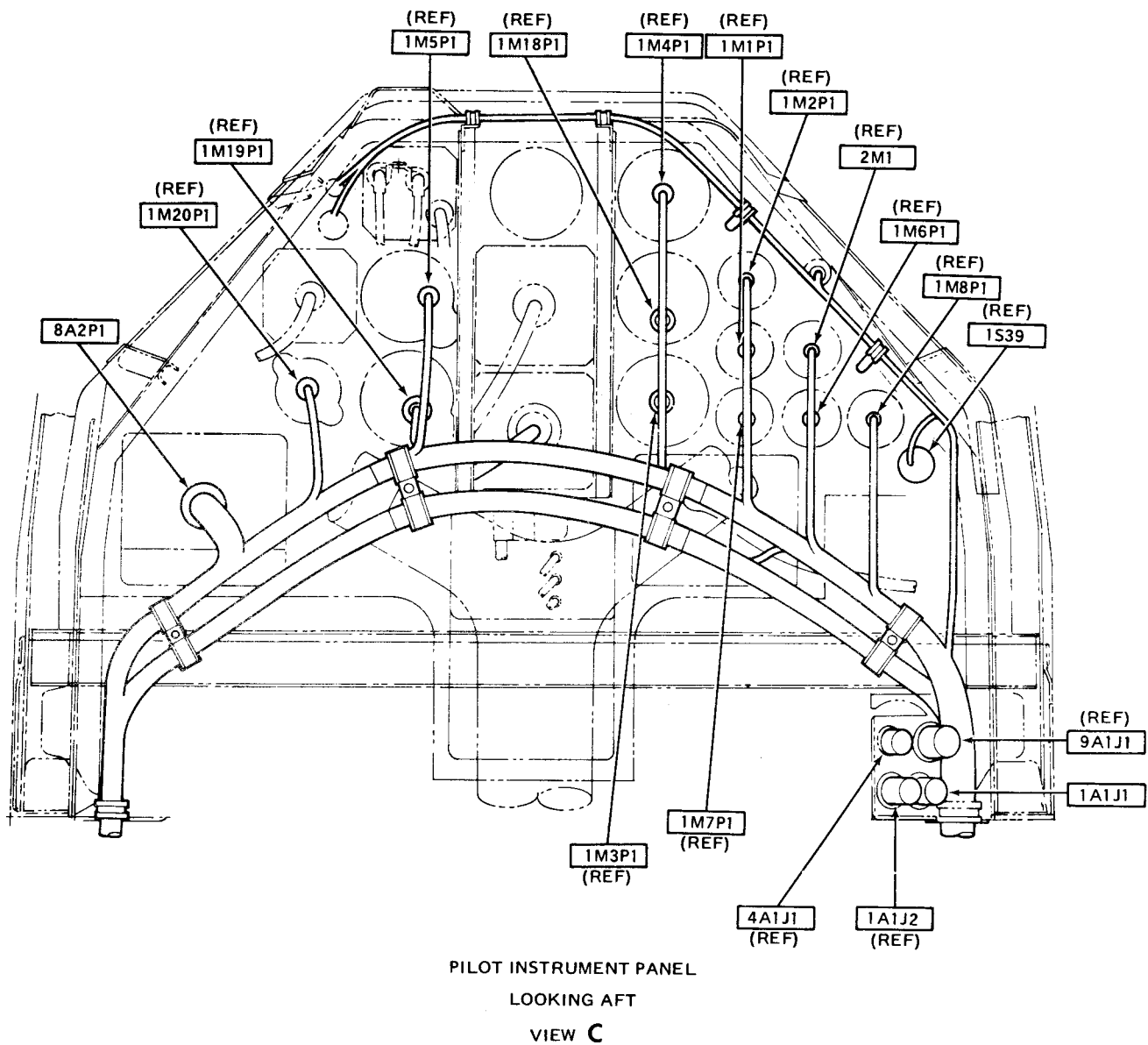
RH SIDE LOOKING INBD
VIEW A

Figure F-57. **M** RPM Limit Warning System (Equipment Location) (Sheet 2 of 9)



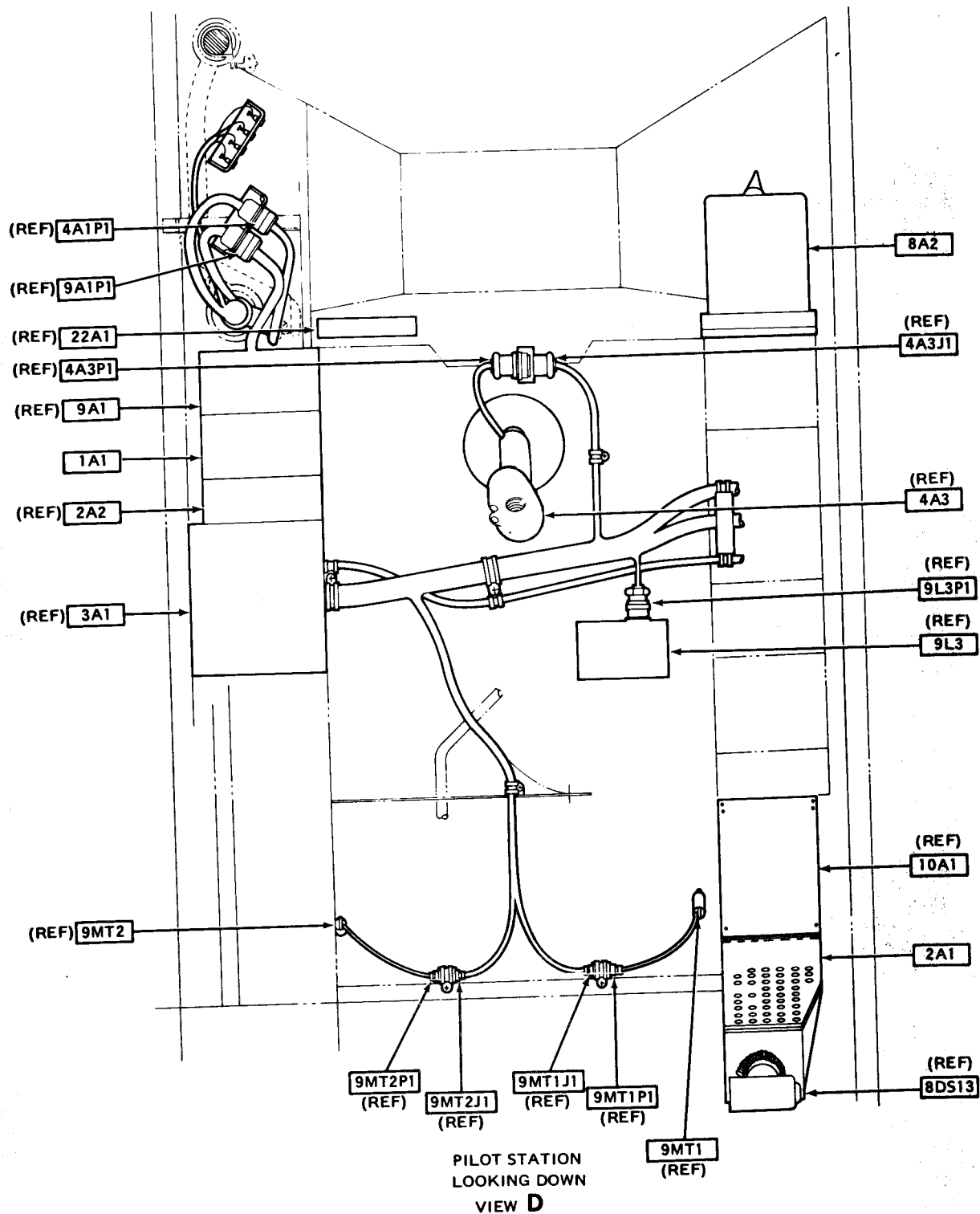
209475-512-3

Figure F-57. **M** RPM Limit Warning System (Equipment Location) (Sheet 3 of 9)



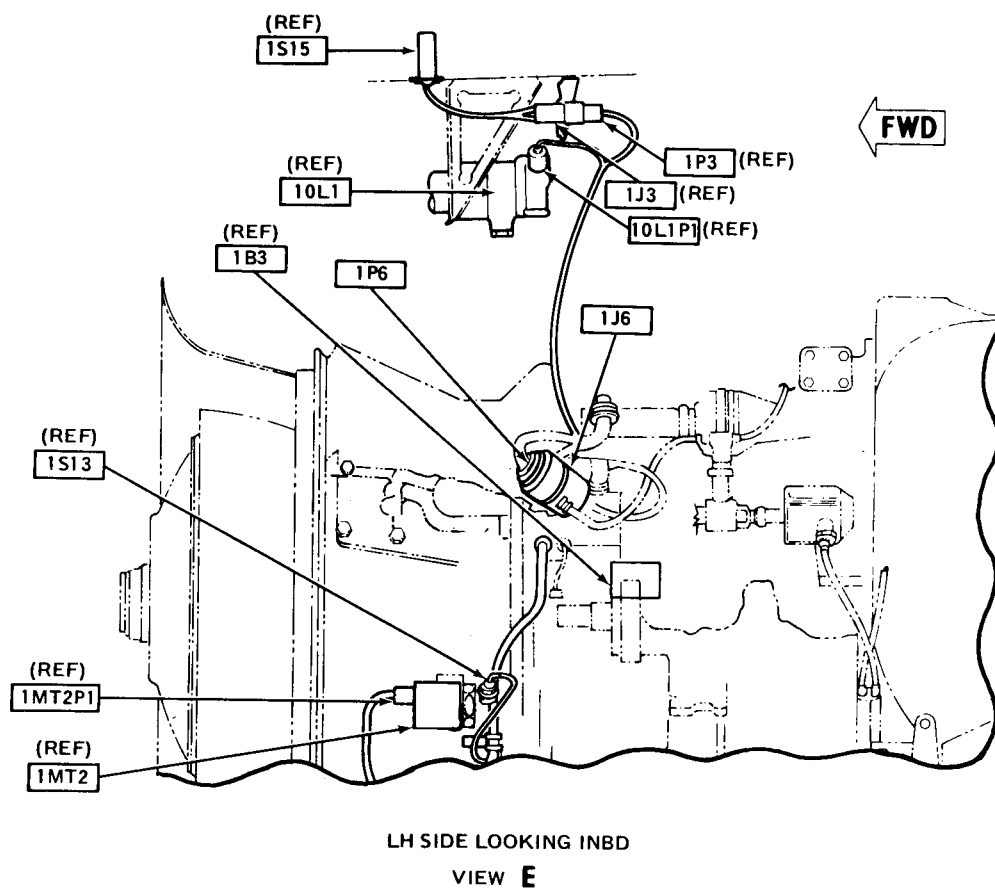
209475-512-4

Figure F-57. **M** RPM Limit Warning System (Equipment Location) (Sheet 4 of 9)



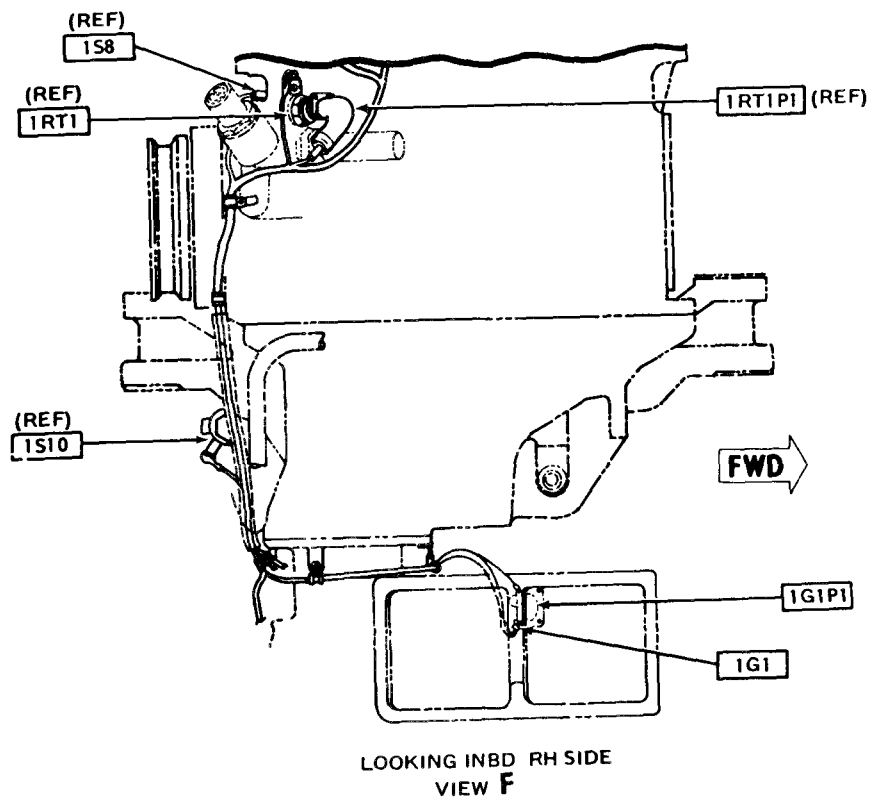
209475-512-5

Figure F-57. **M** RPM Limit Warning System (Equipment Location) (Sheet 5 of 9)



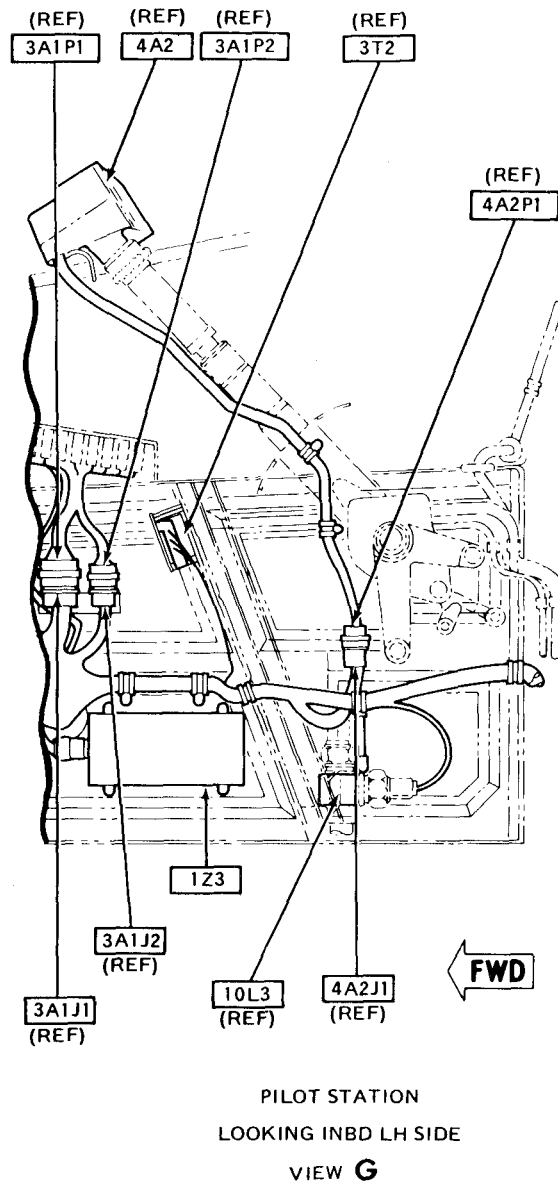
209475-512-6

Figure F-57. **M** RPM Limit Warning System (Equipment Location) (Sheet 6 of 9)



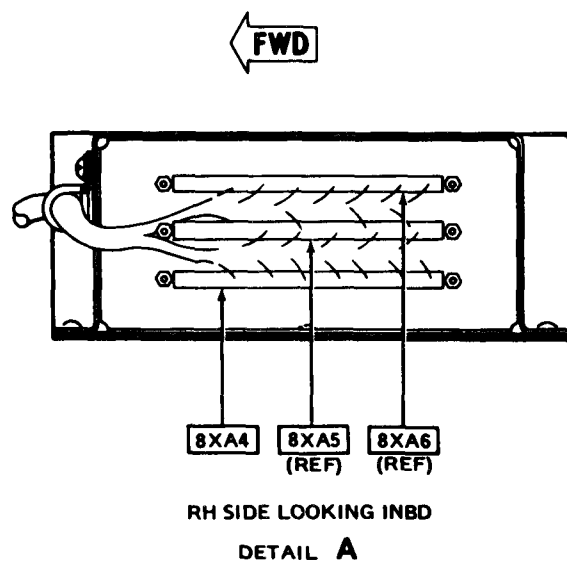
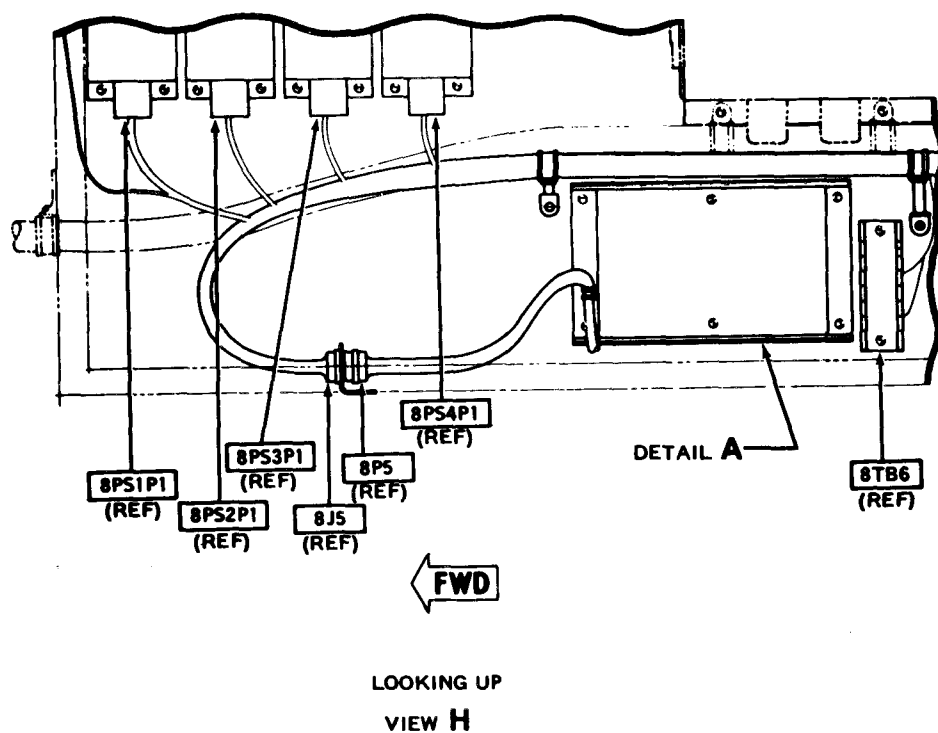
209475-512-7

Figure F-57. **M** RPM Limit Warning System (Equipment Location) (Sheet 7 of 9)



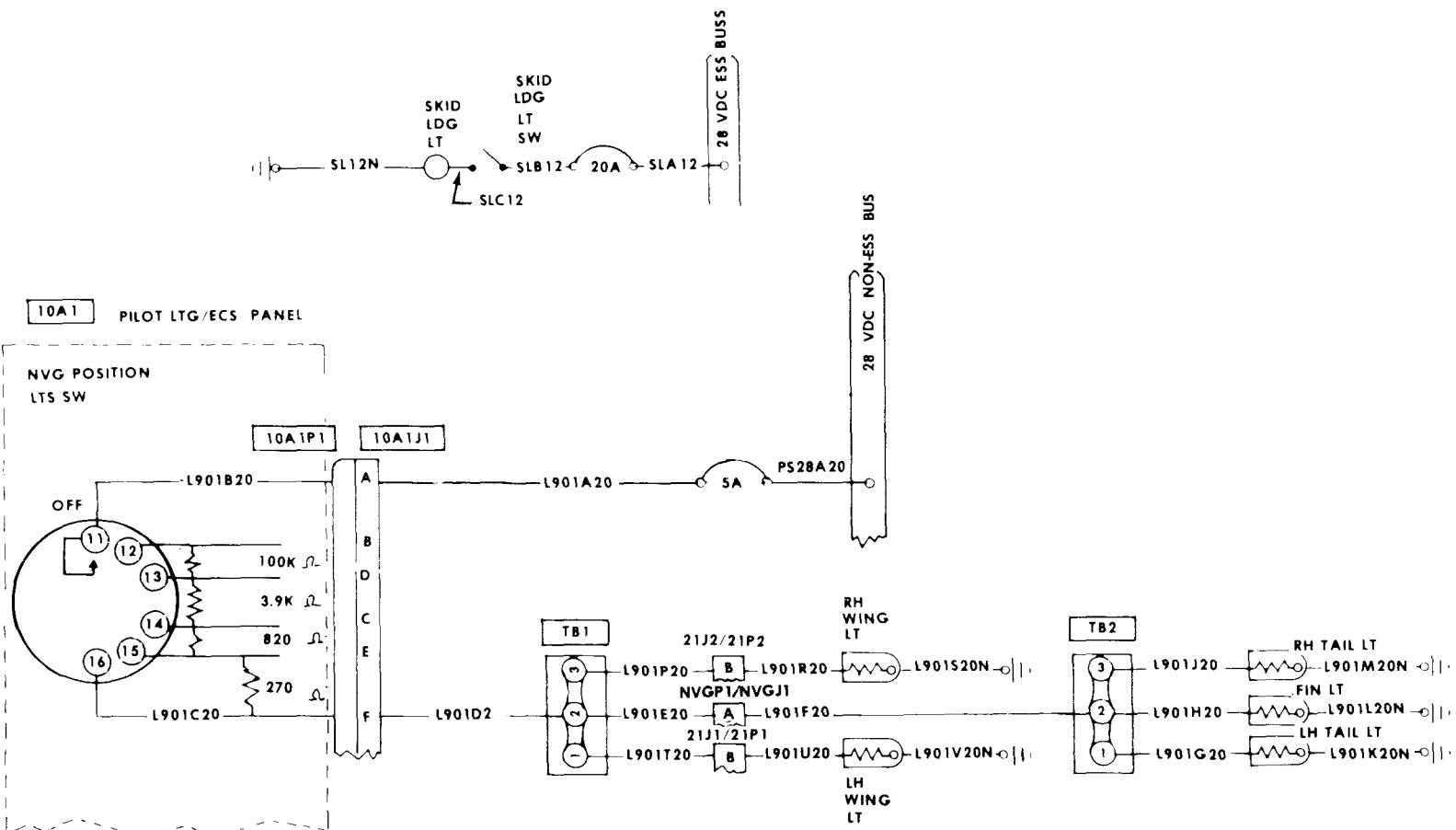
209475-512-8

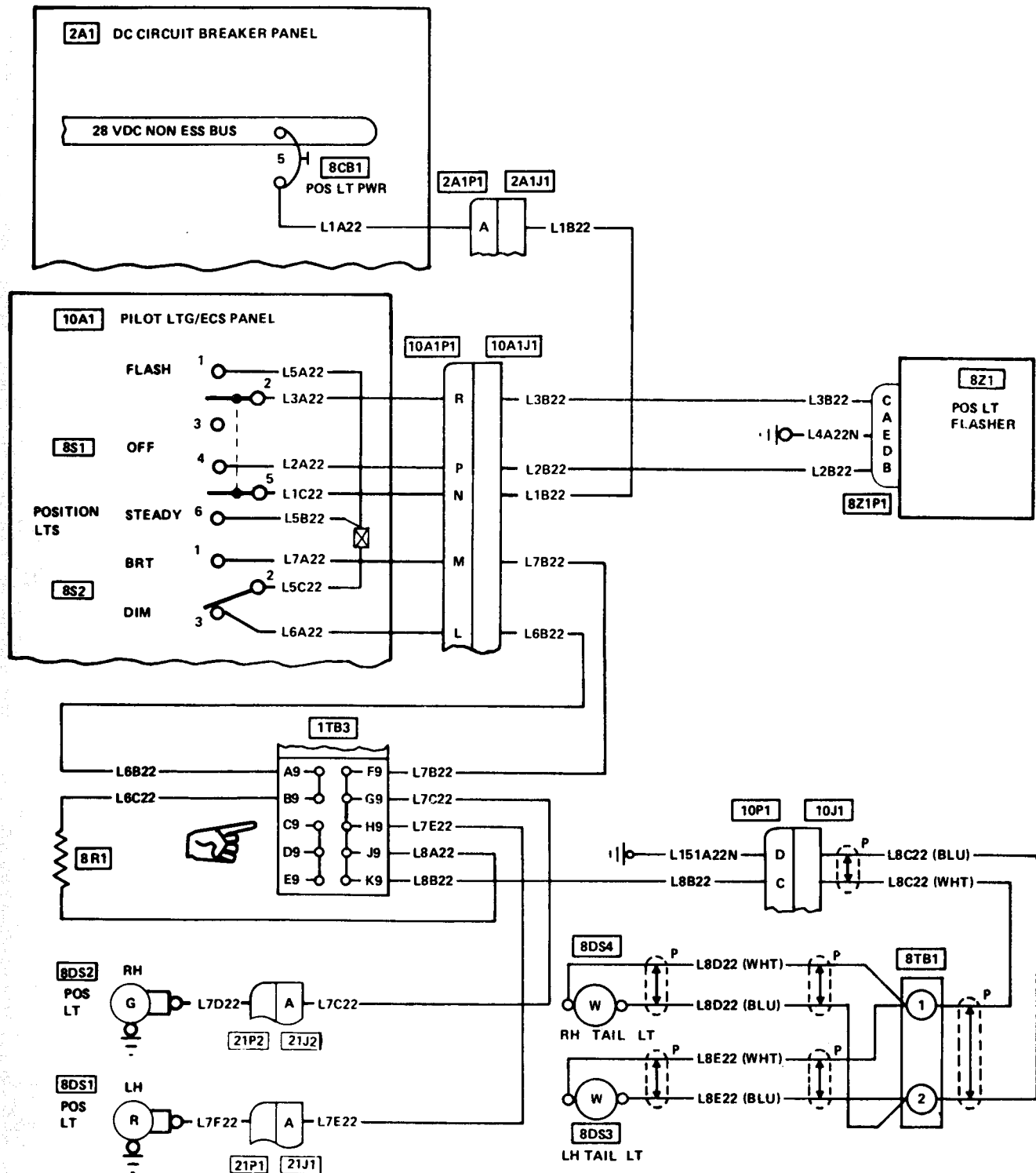
Figure F-57. **M** RPM Limit Warning System (Equipment Location) (Sheet 8 of 9)



209475-512-9

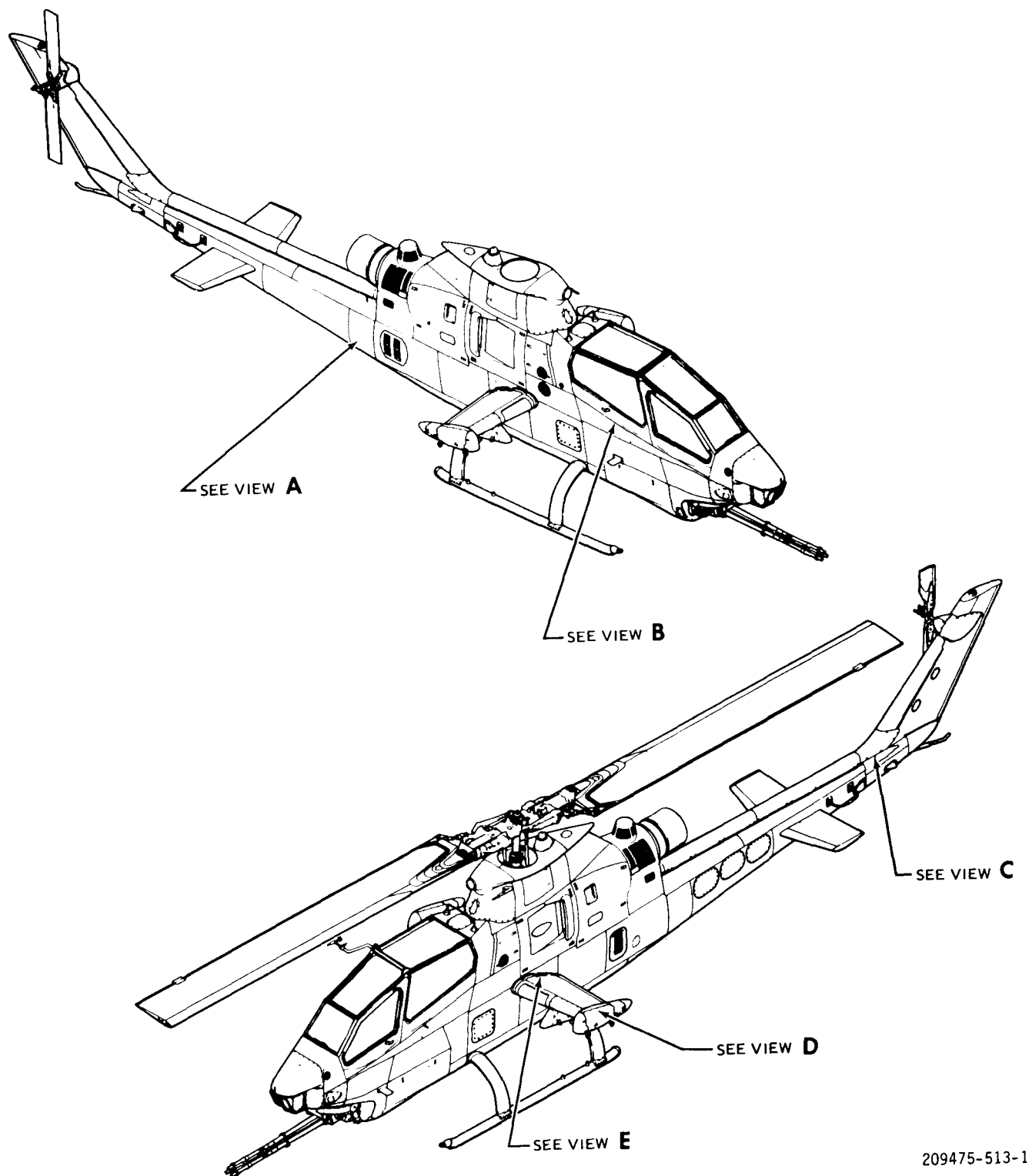
Figure F-57. ^M RPM Limit Warning System (Equipment Location) (Sheet 9 of 9)





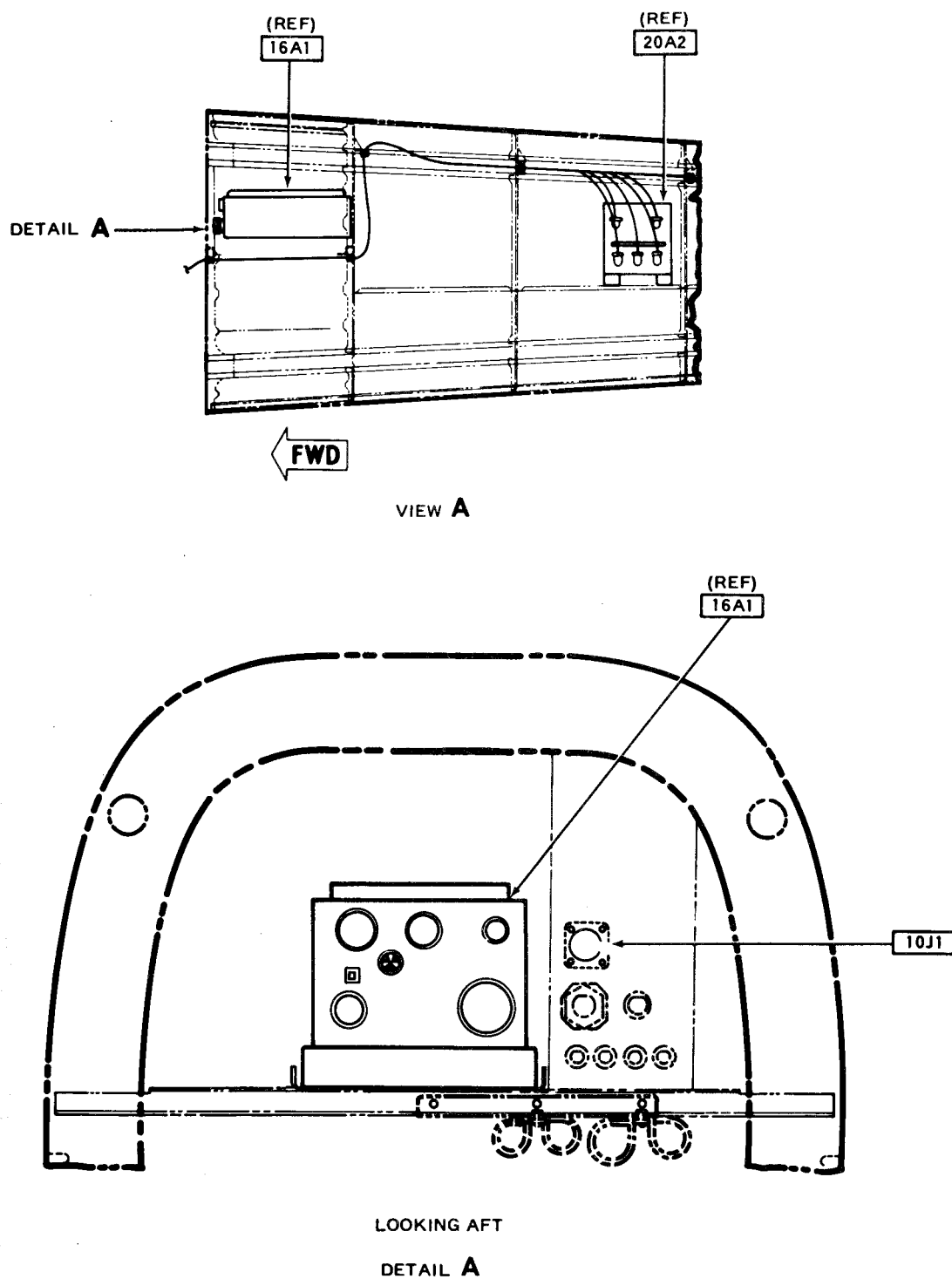
209075-447

Figure F-58. M Position Lights System (Sheet 1 of 7)



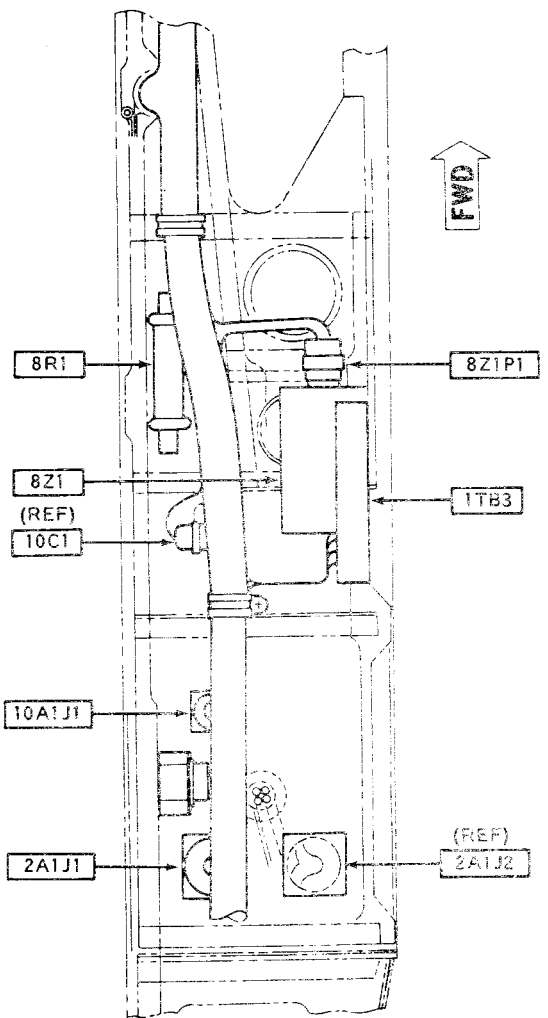
209475-513-1

Figure F-58. **M** Position Lights System (Sheet 2 of 7)

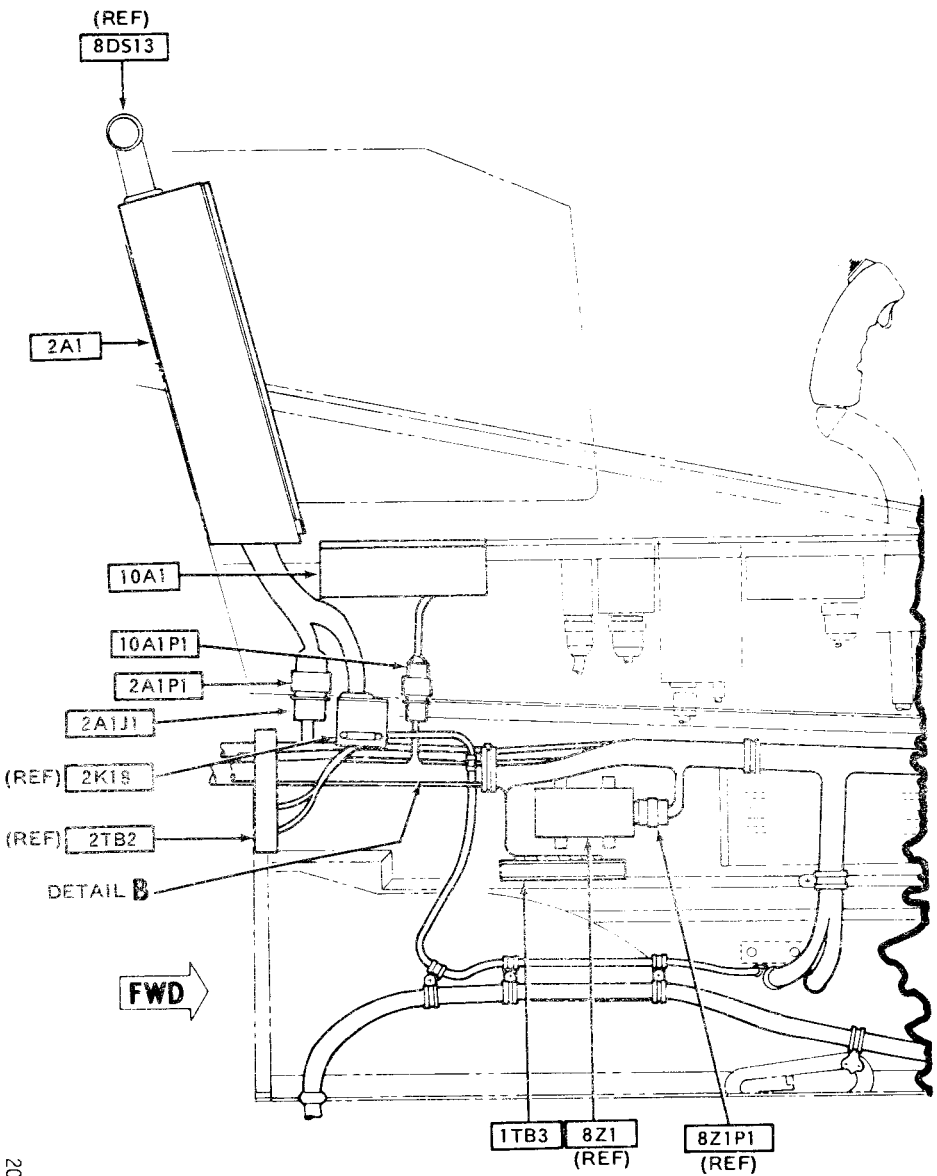


209475-513-2

Figure F-58. **M** Position Lights System (Sheet 3 of 7)



PILOT STATION
RH SIDE
LOOKING UP
DETAIL B



PILOT STATION
RH SIDE LOOKING INBD
VIEW B

209475-513-4

Figure F-58. M Position Lights System (Sheet 4 of 7)

209475-513-5

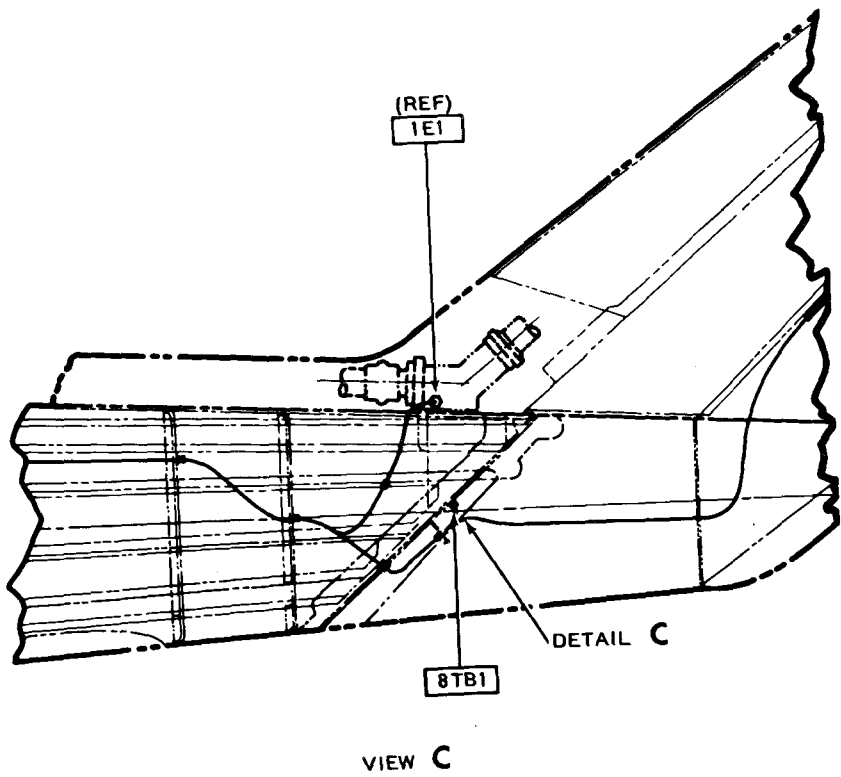
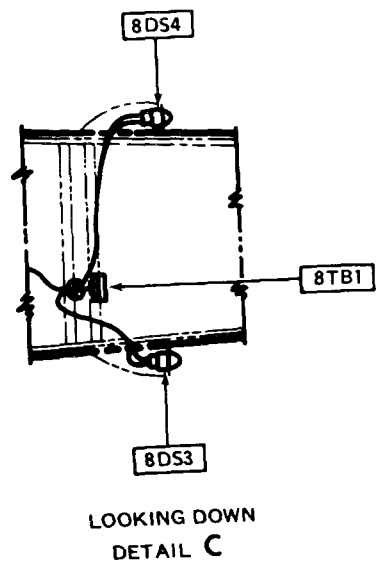
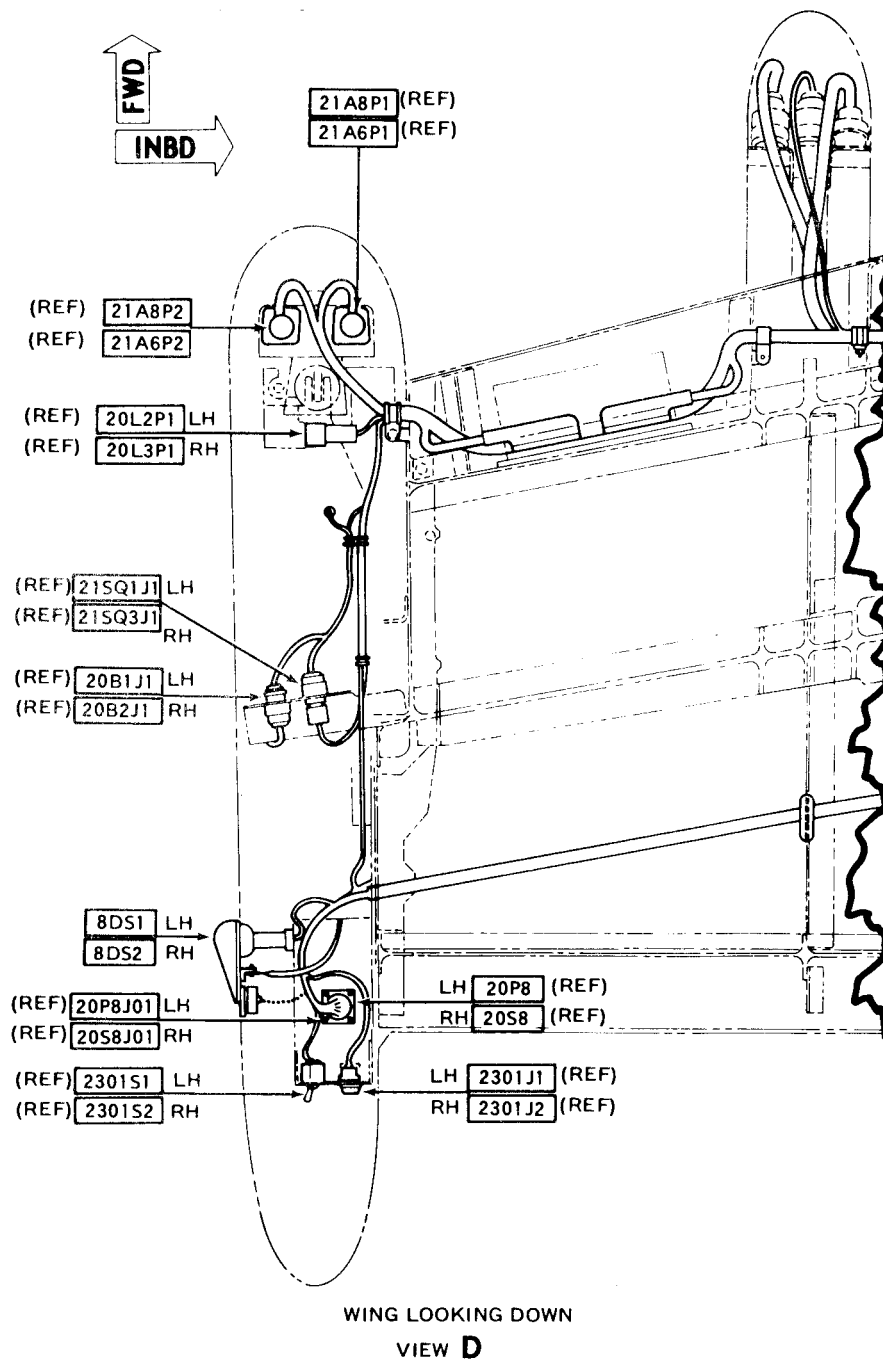


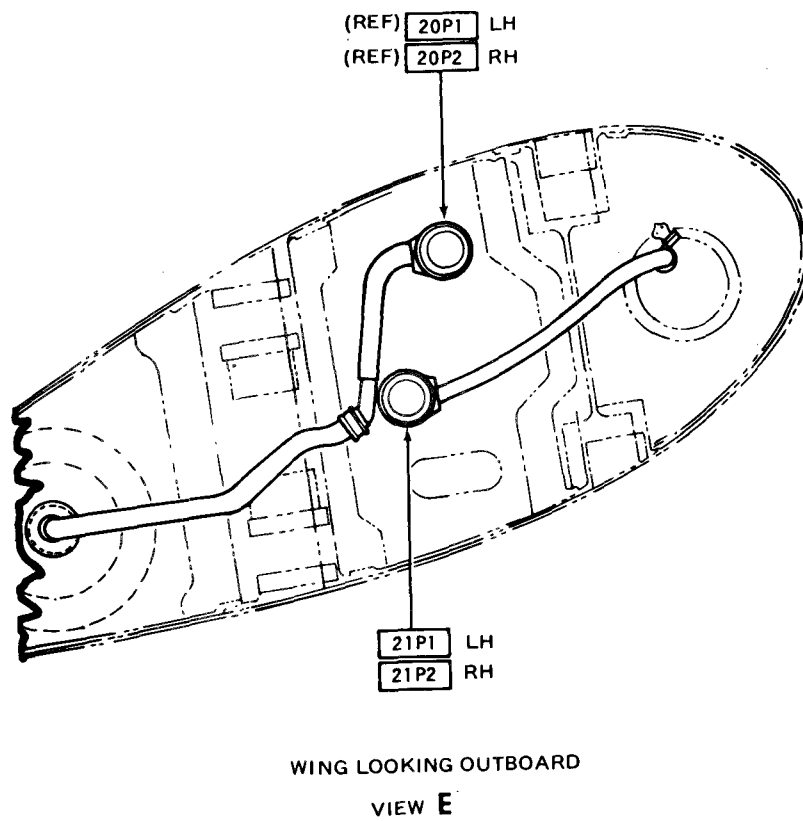
Figure F-58.

Position Lights System (Sheet 5 of 7)



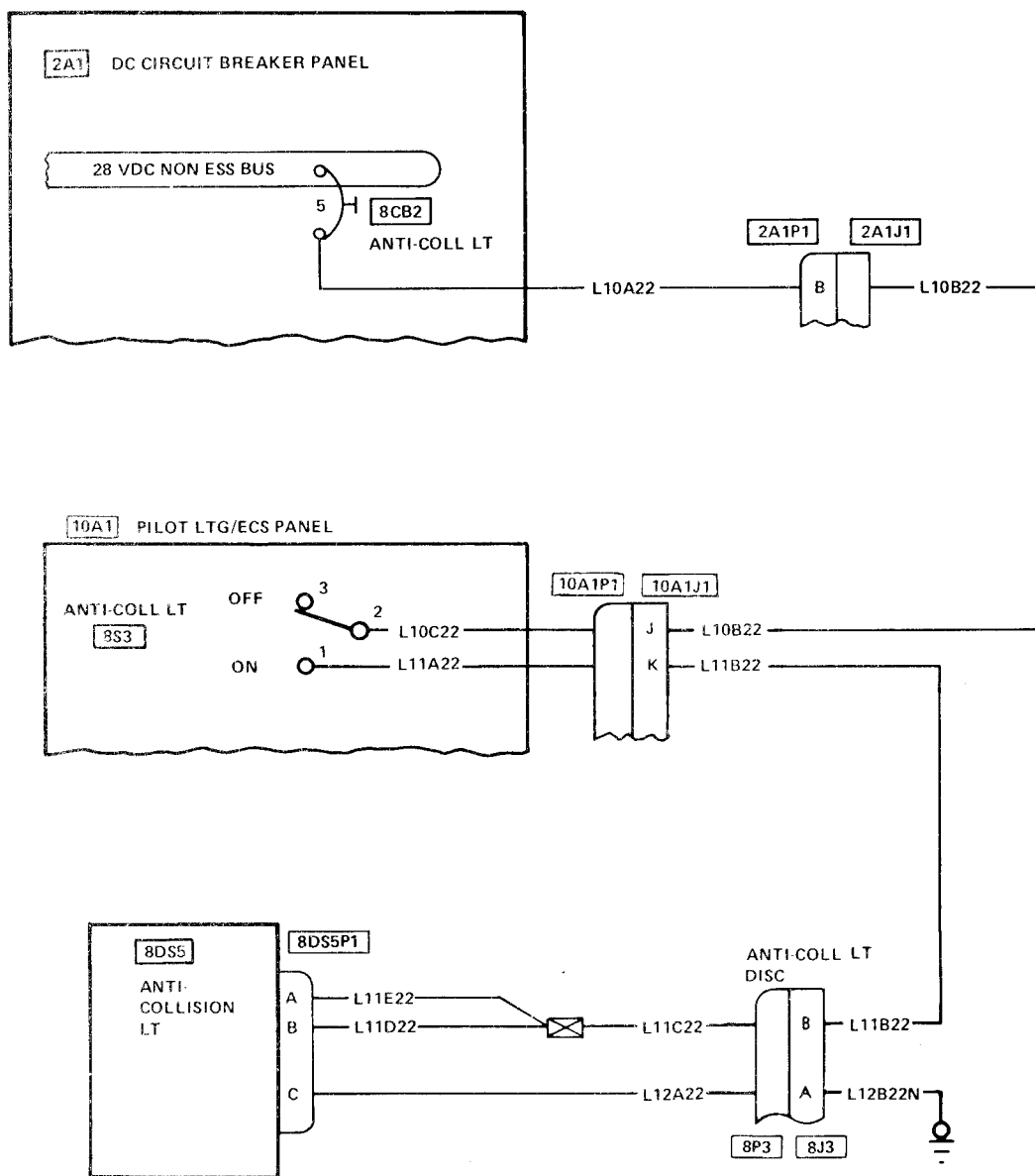
209475-513-6

Figure F-58. **M** Position Lights System (Sheet 6 of 7)



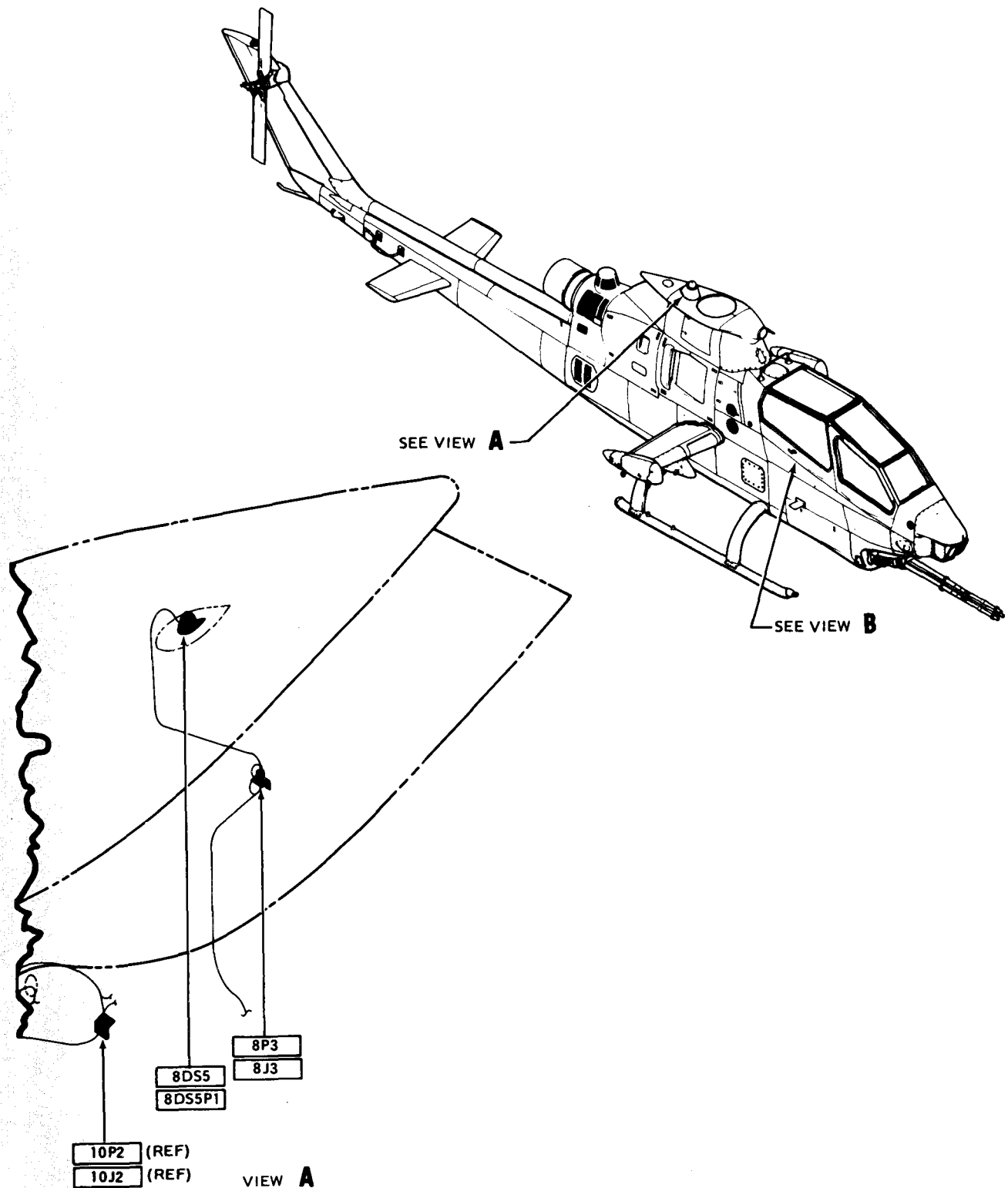
209475-513-3

Figure F-58. **N** Position Lights System (Sheet 7 of 7)



209075-448

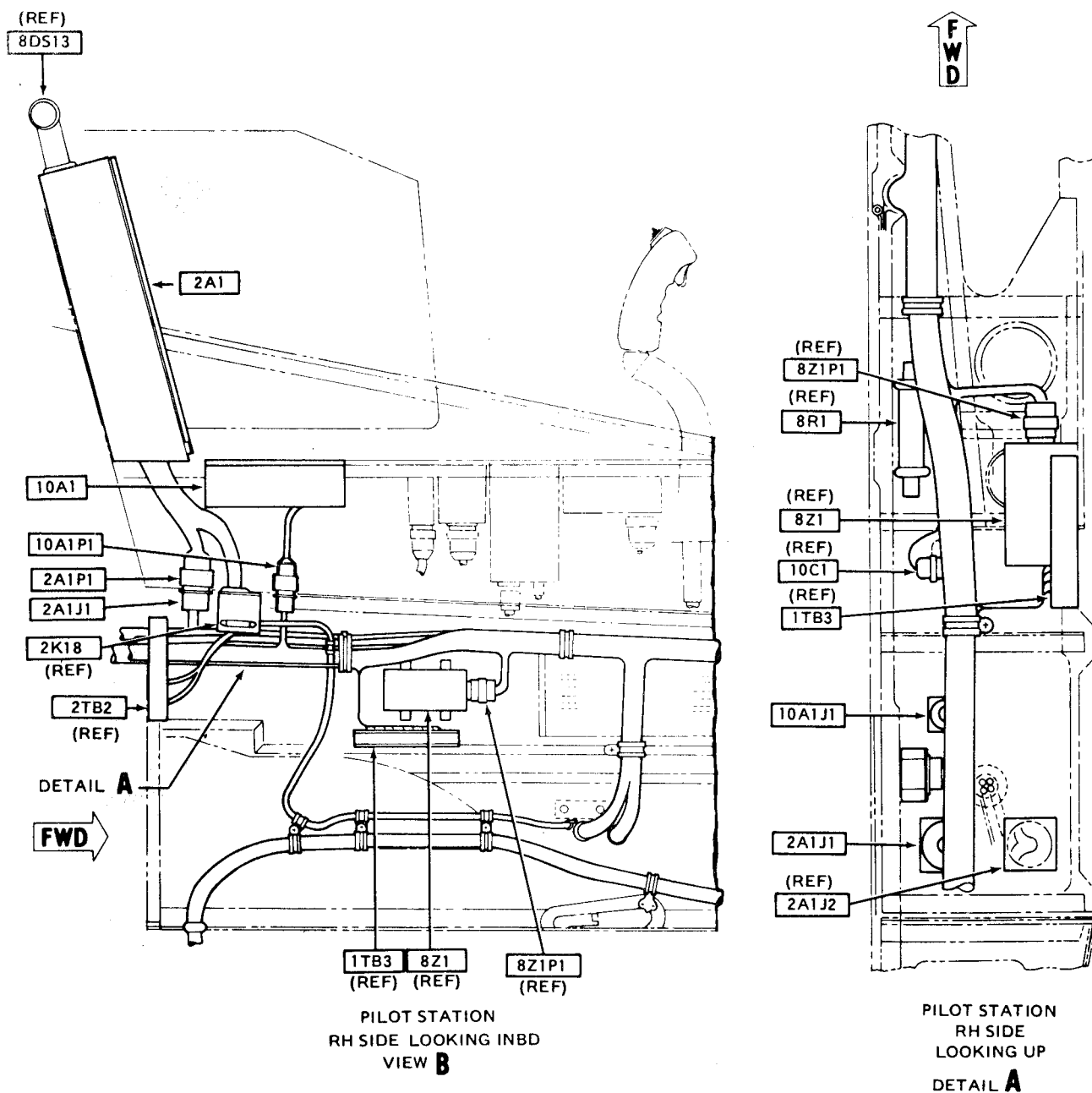
Figure F-59. **M** Anticollision Light System (Sheet 1 of 3)



209475-521-1

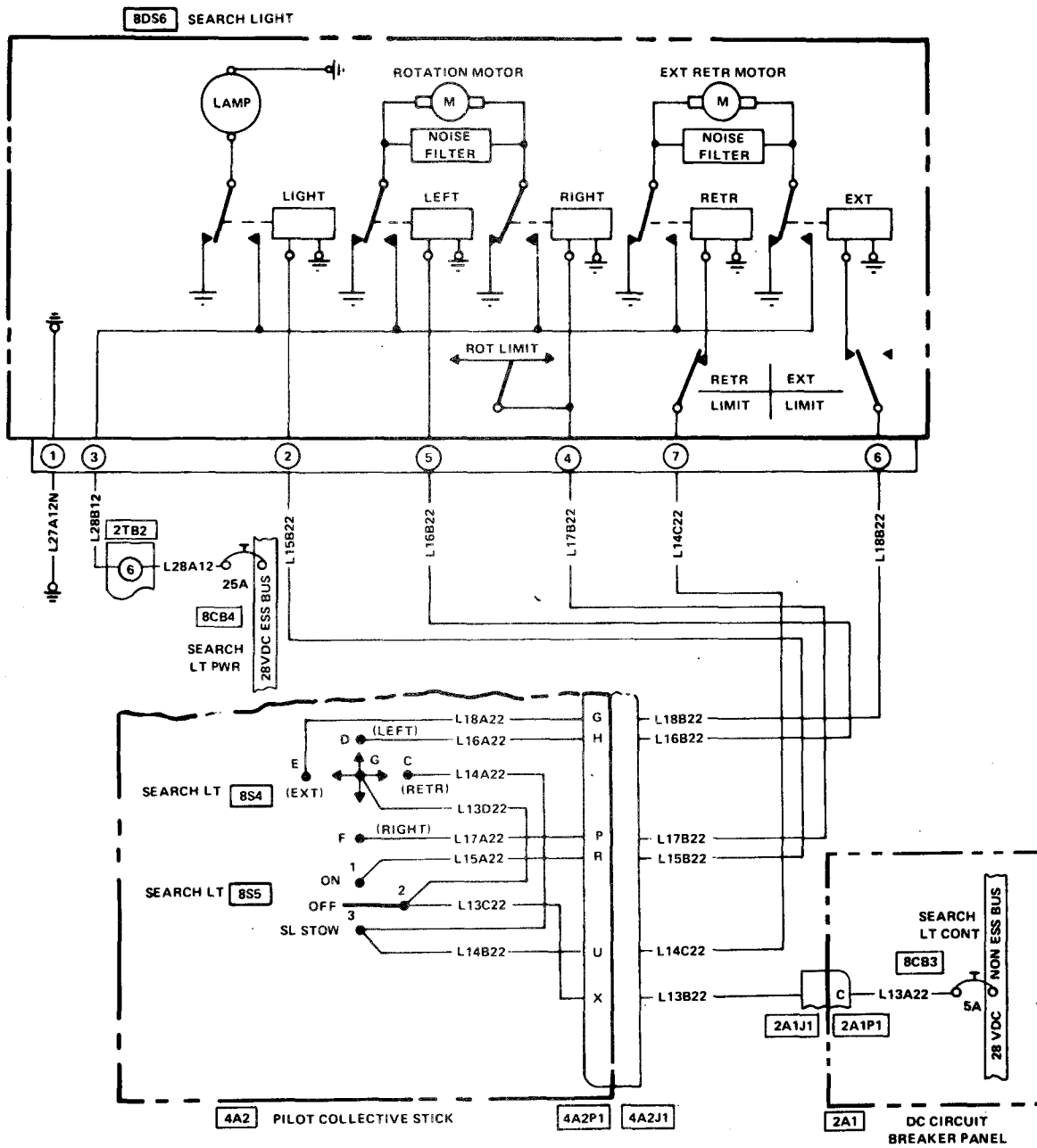
Figure F-59.

M Anticollision Light System (Sheet 2 of 3)



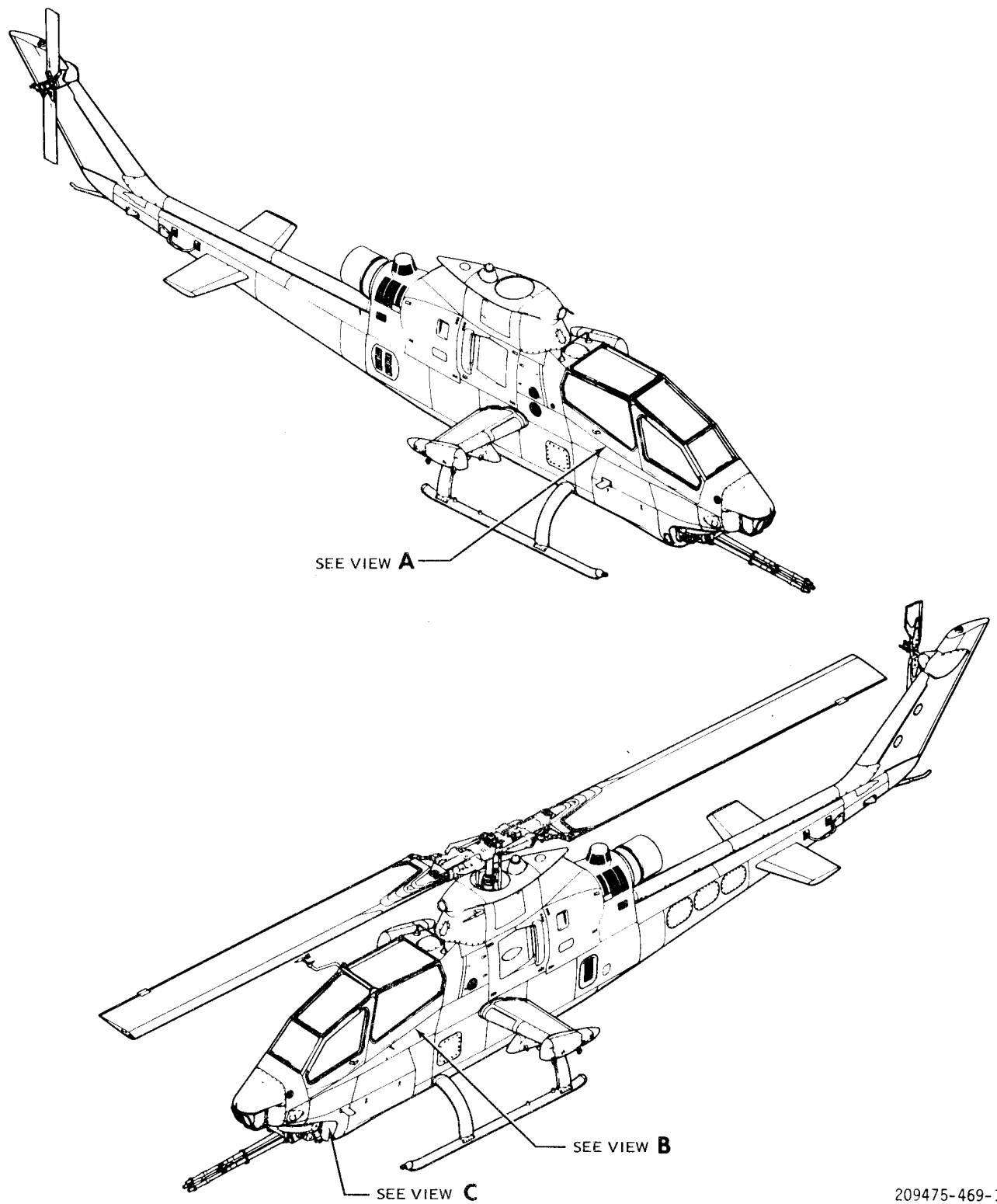
209475-521-2

Figure F-59. **M** Anticollision Light System (Sheet 3 of 3)



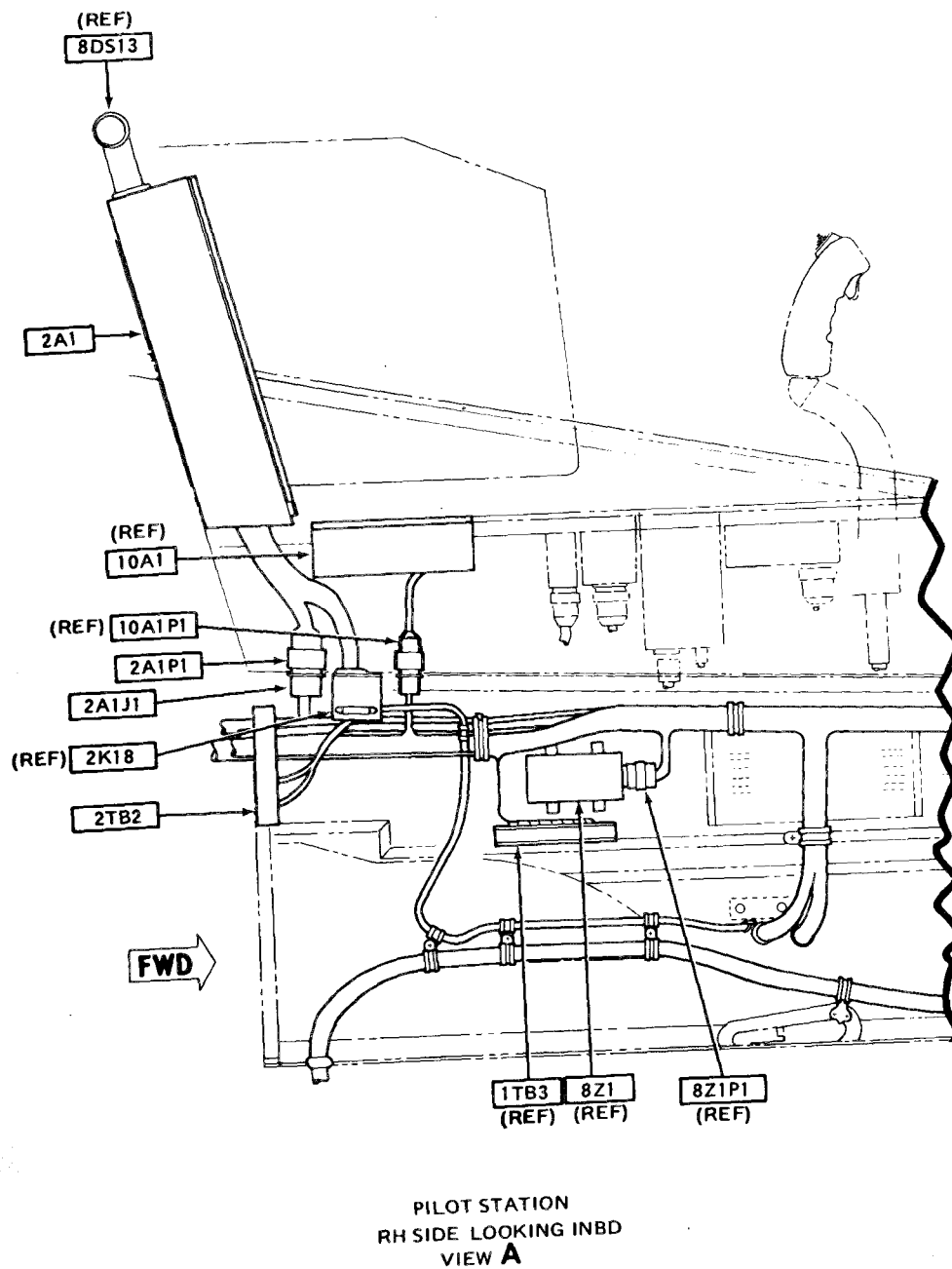
209475-503

Figure F-60. **M** Searchlight System (Sheet 1 of 5)



209475-469-1

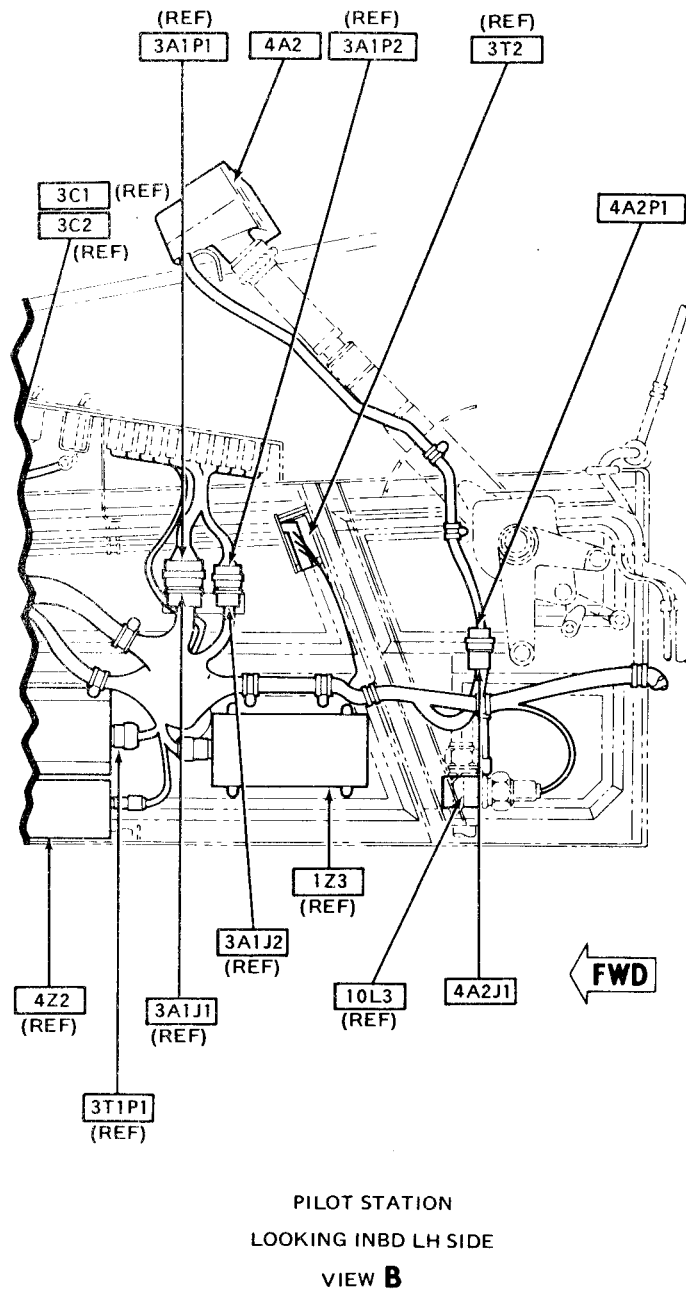
Figure F-60. **M** Searchlight System (Sheet 2 of 5)



209475-469-2

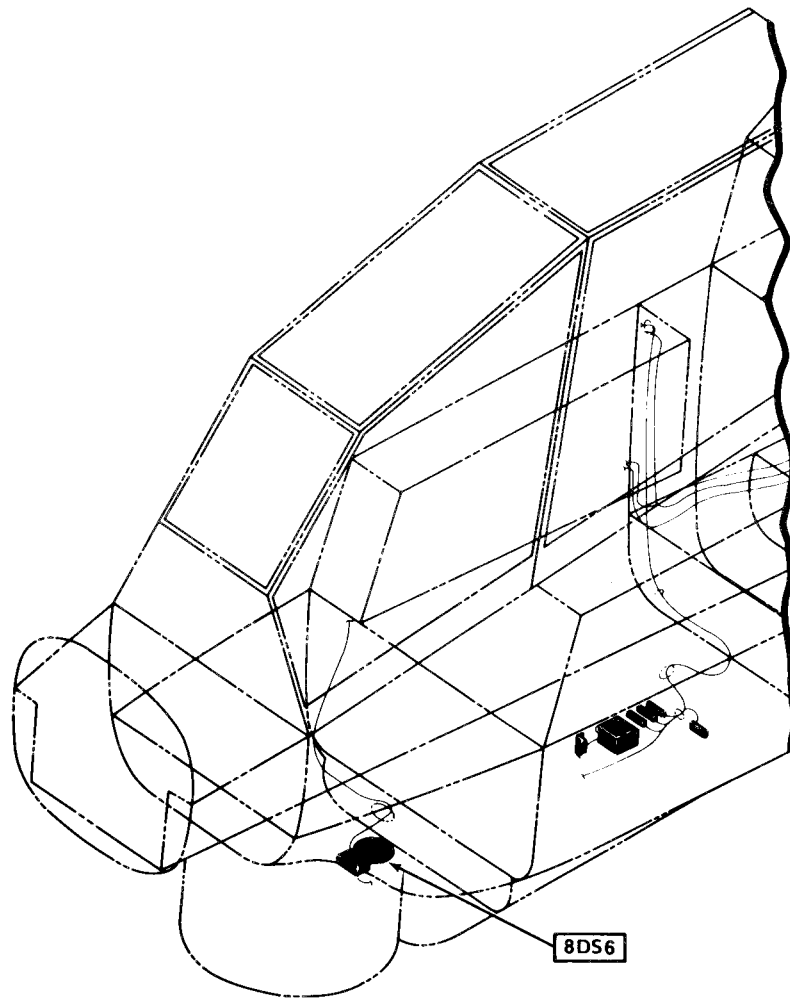
Figure F-60. Searchlight System (Sheet 3 of 5)

M



209475-469-3

Figure F-60. **M** Searchlight System (Sheet 4 of 5)



VIEW C

209475-469-4

Figure F-60. **M** Searchlight System (Sheet 5 of 5)

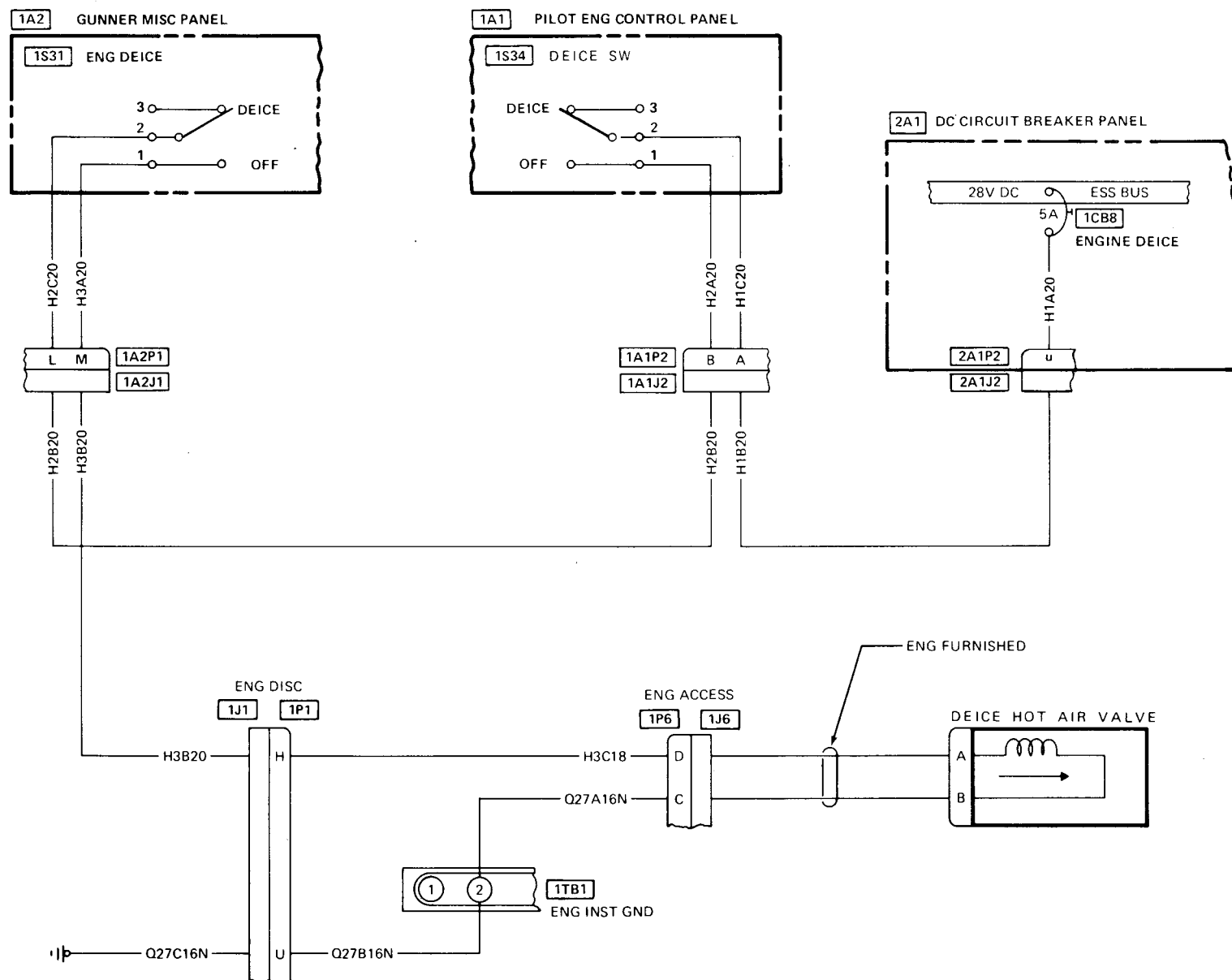


Figure F-61. **M** Engine De-ice System (Sheet 1 of 8)

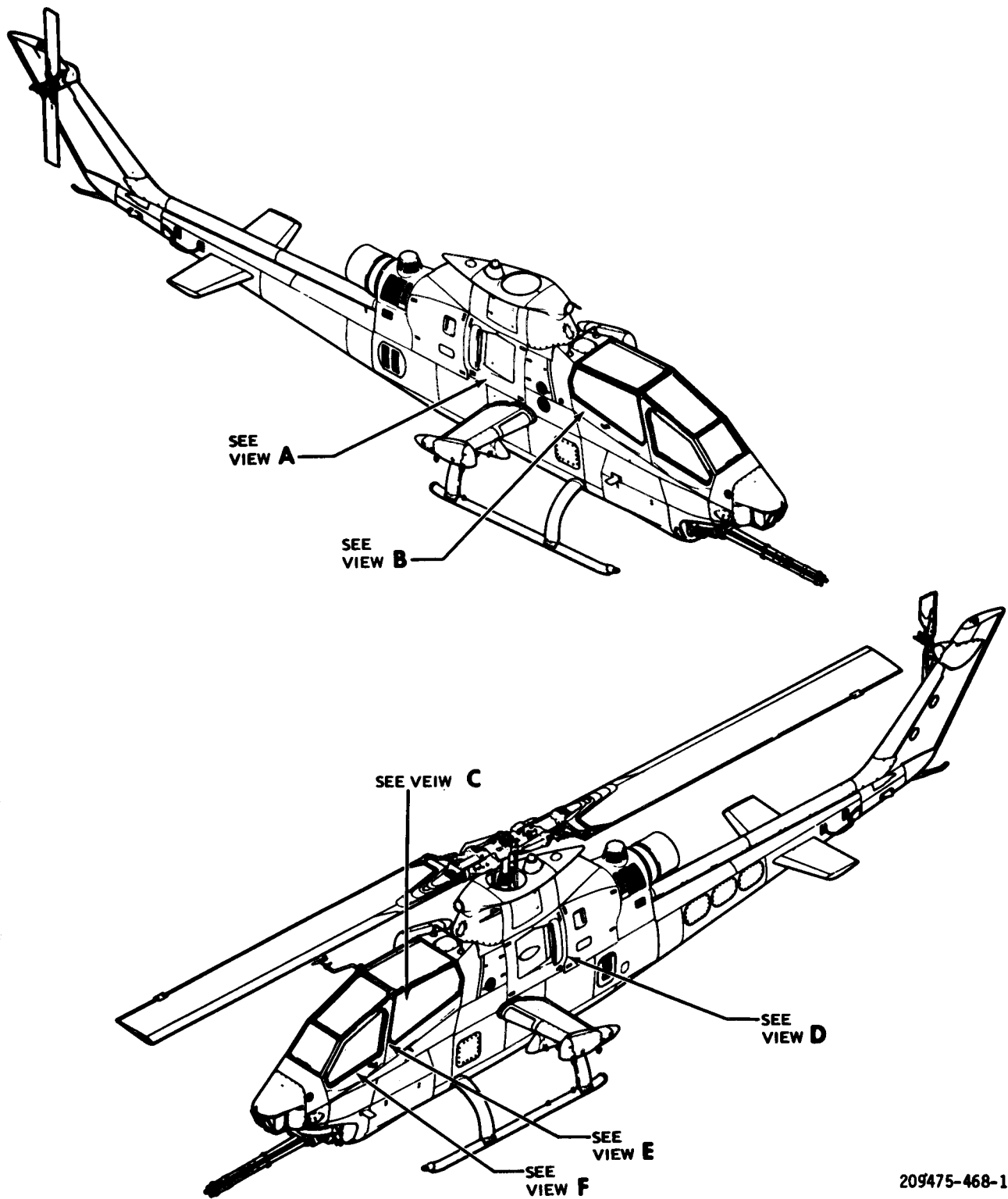


Figure F-61. **M** Engine De-ice System (Sheet 2 of 8)

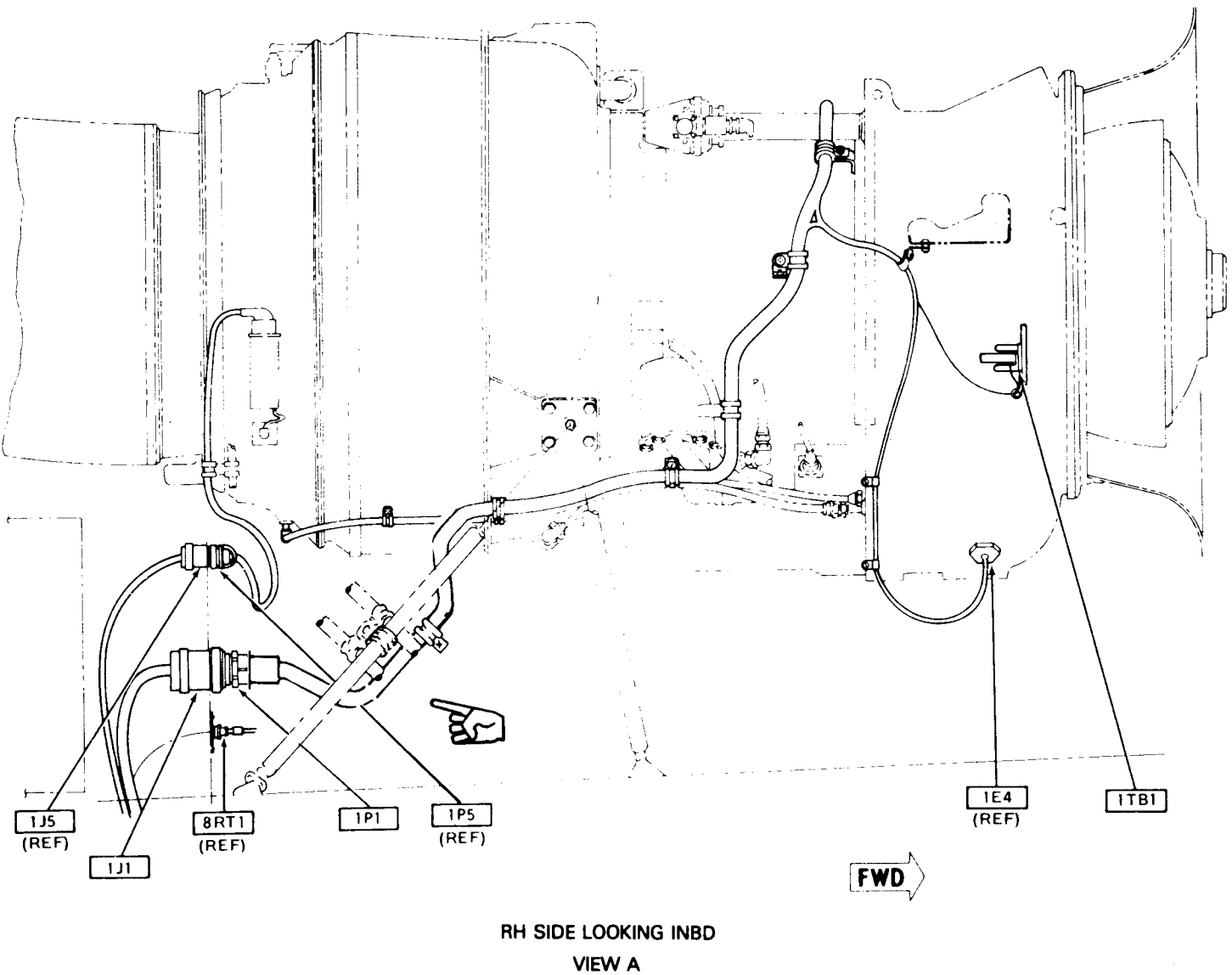
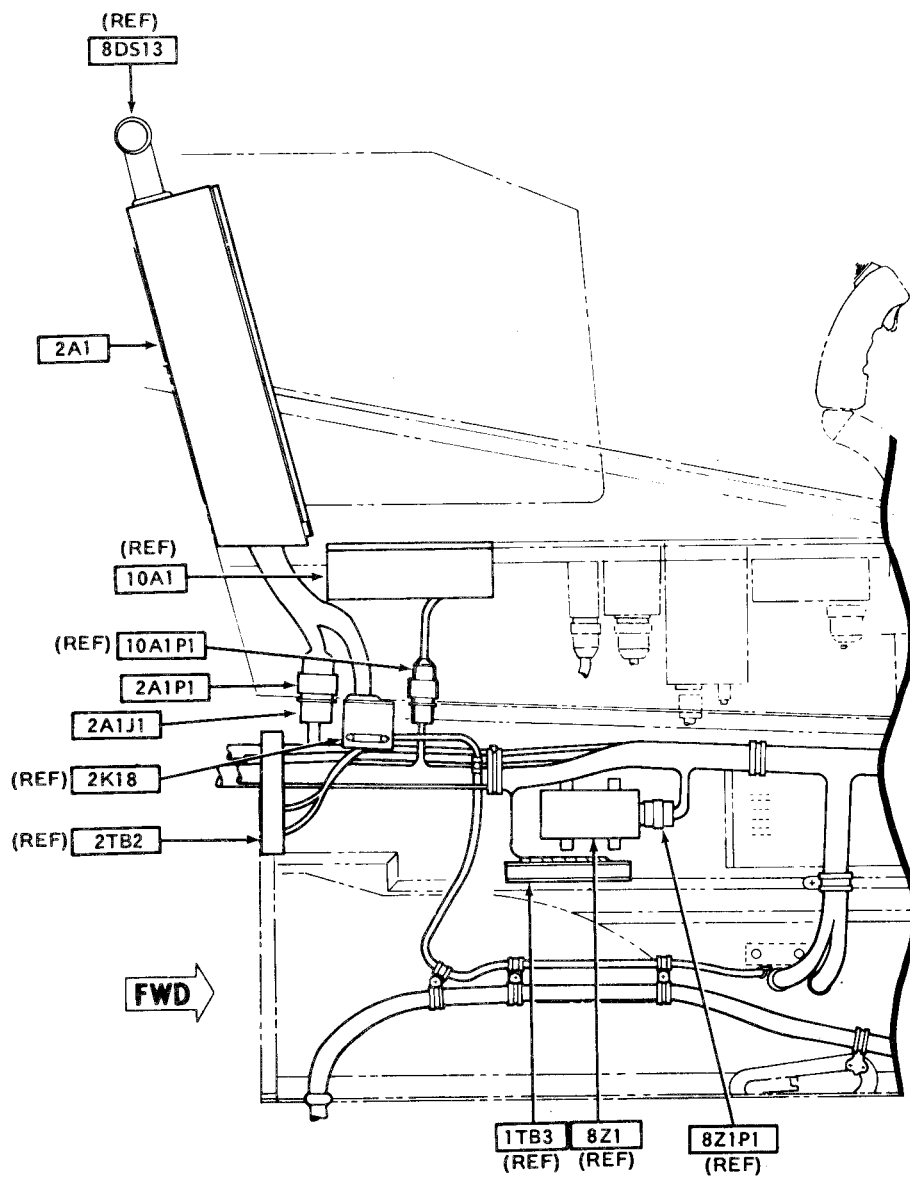


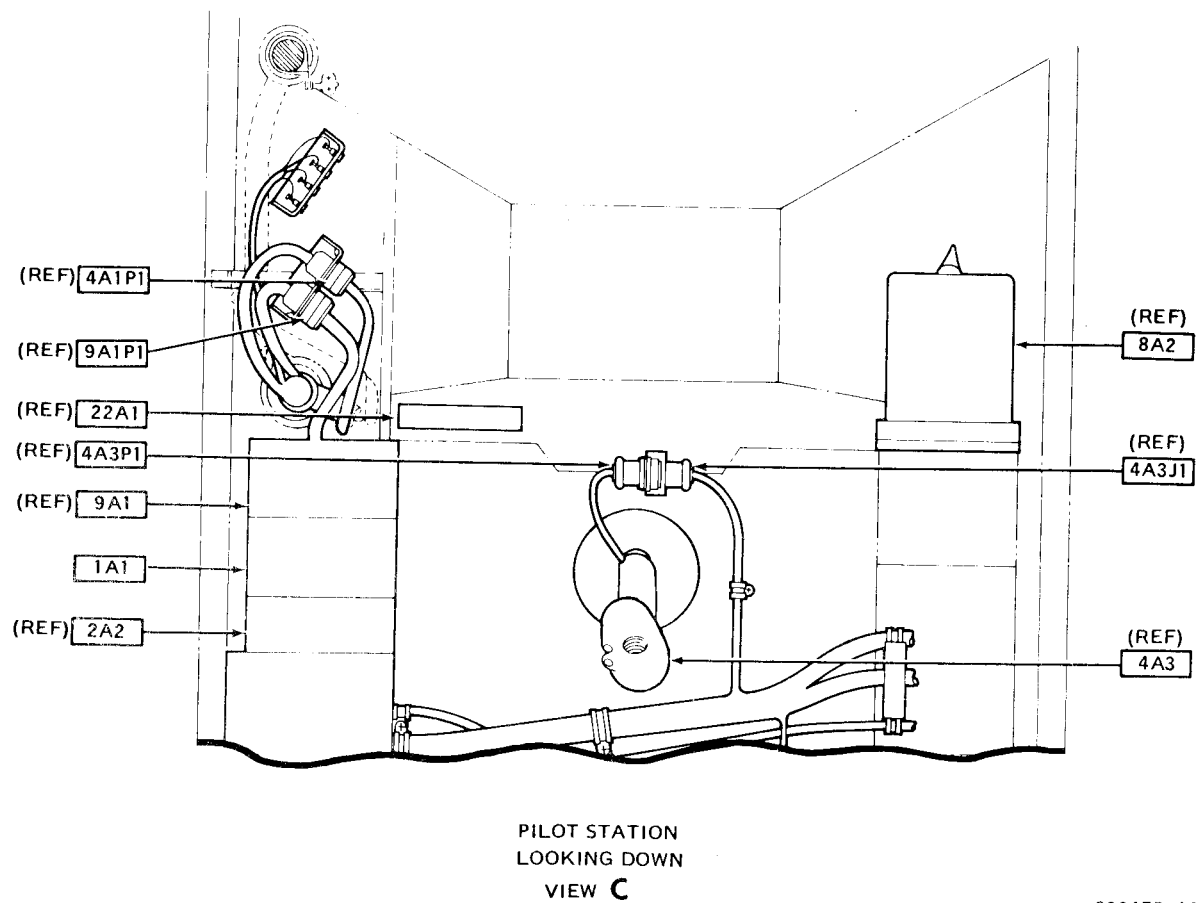
Figure F-61. **M** Engine De-icer System (Sheet 3 of 8)



PILOT STATION
RH SIDE LOOKING INBD
VIEW **B**

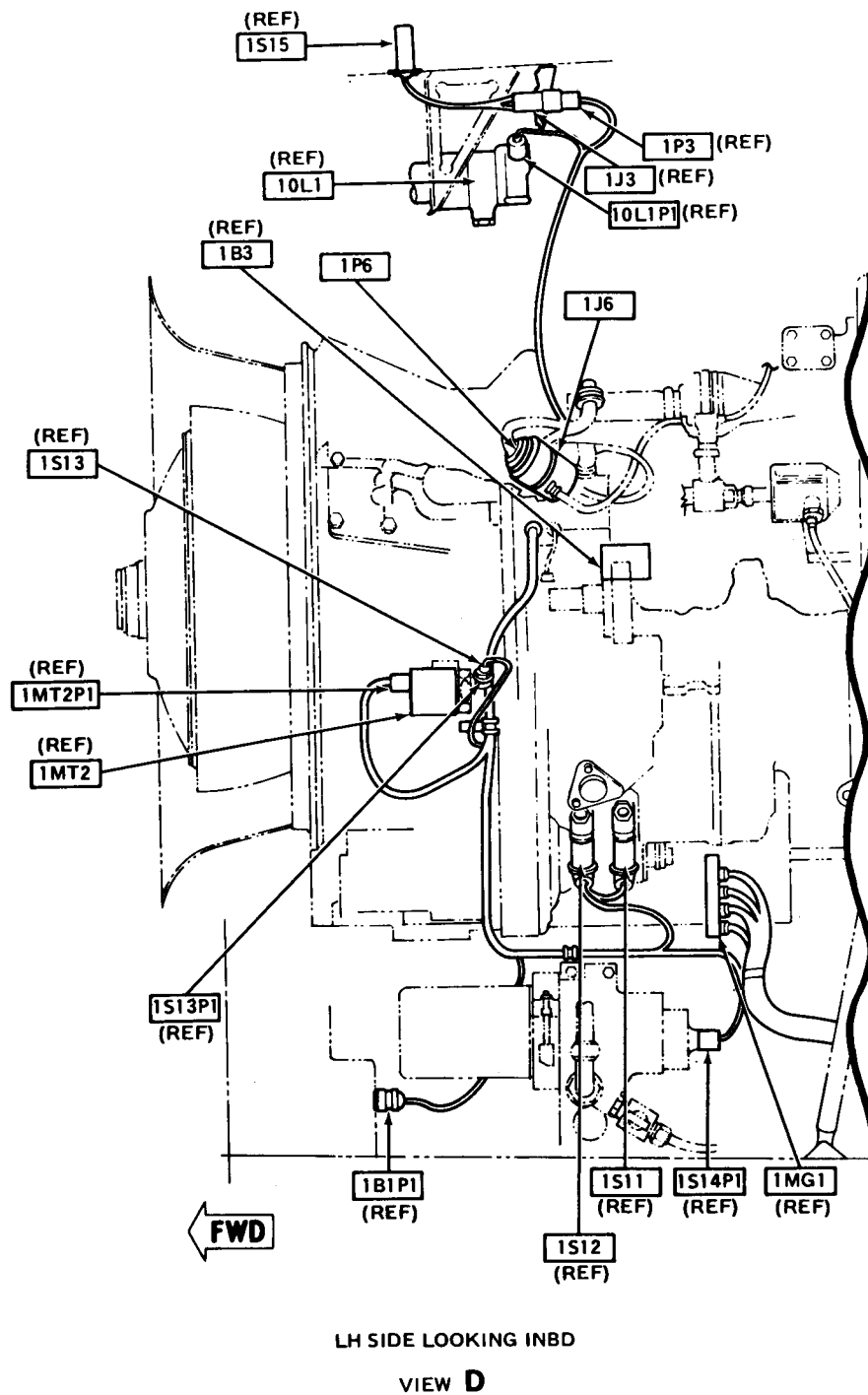
209475-468-3

Figure F-61. **M** Engine De-ice System (Sheet 4 of 8)



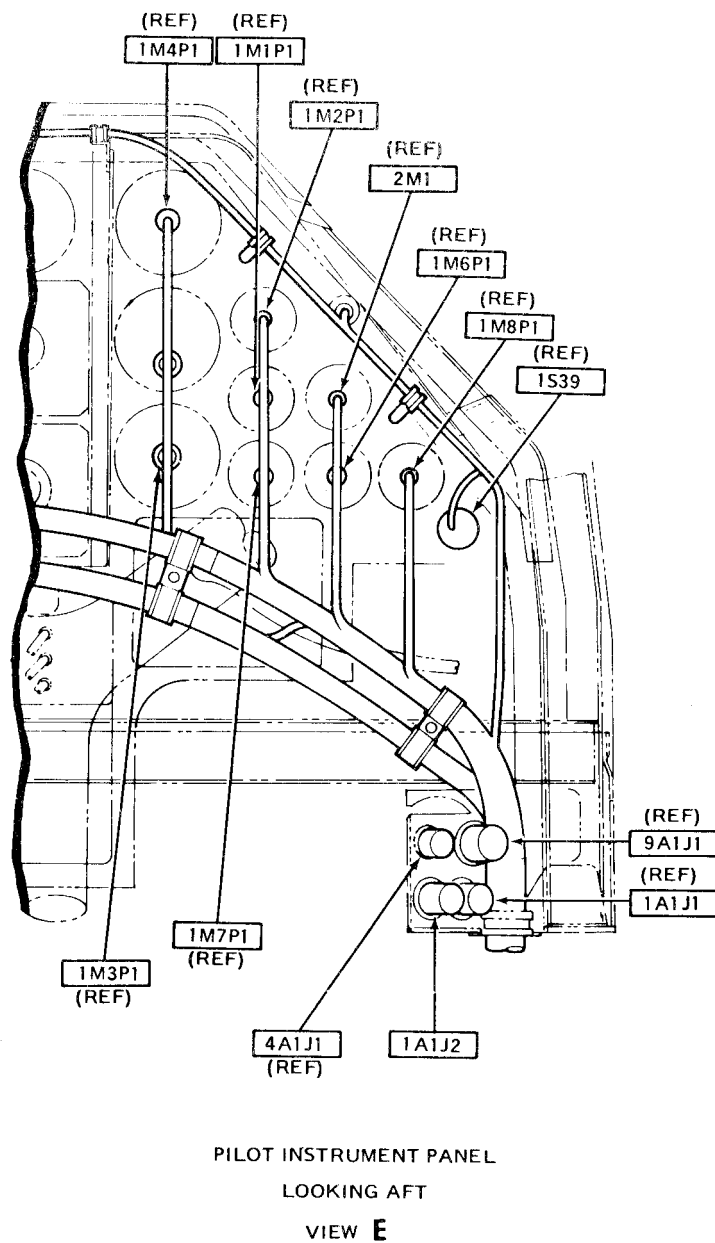
209475-468-4

Figure F-61. **M** Engine De-ice System (Sheet 5 of 8)



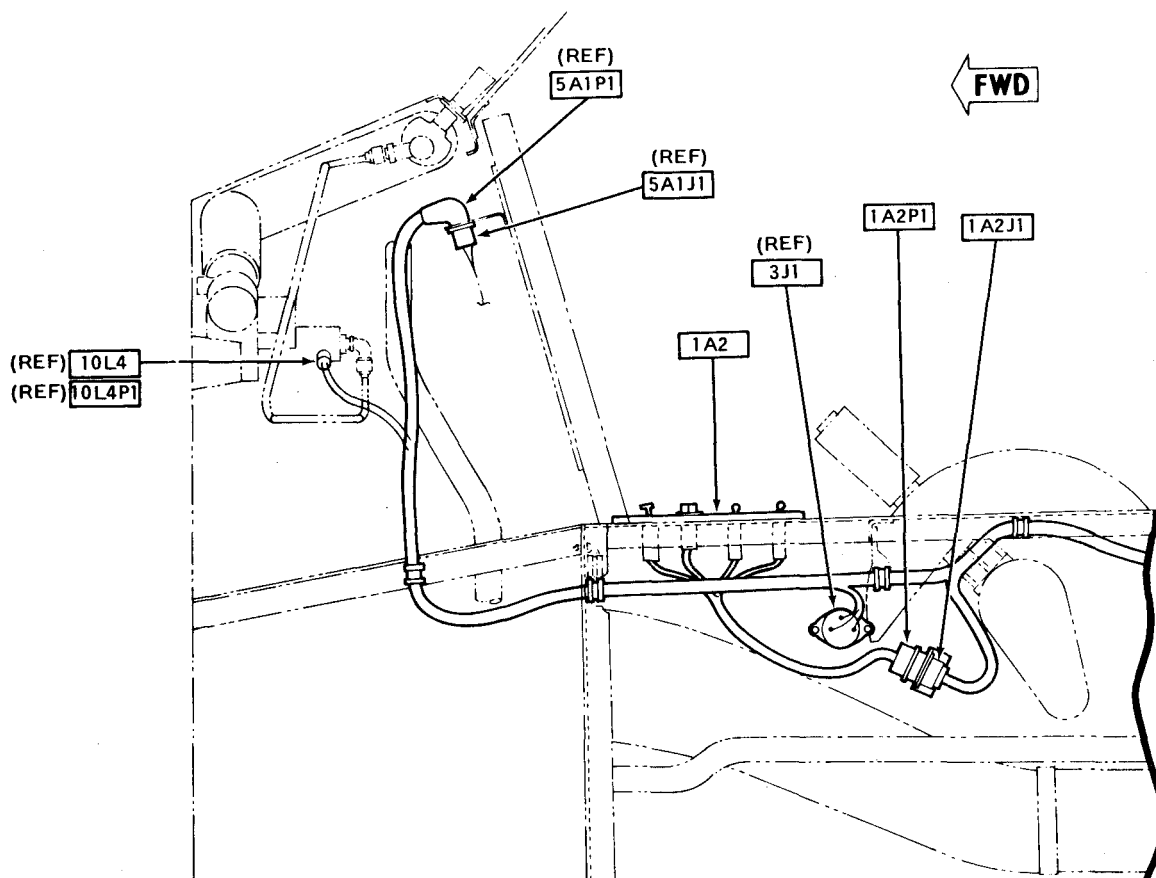
209475-468-5

Figure F-61. **M** Engine De-ice System (sheet 6 of 8)



209475-468-6

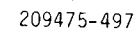
Figure F-61. **M** Engine De-ice System (Sheet 7 of 8)



GUNNER STATION
LOOKING INBD LH SIDE
VIEW F

209475-468-7

Figure F-61. **M** Engine De-ice System (Sheet 8 of 8)



Fuel Valve and Engine Oil Bypass Valve Systems (Sheet 1 of 8)

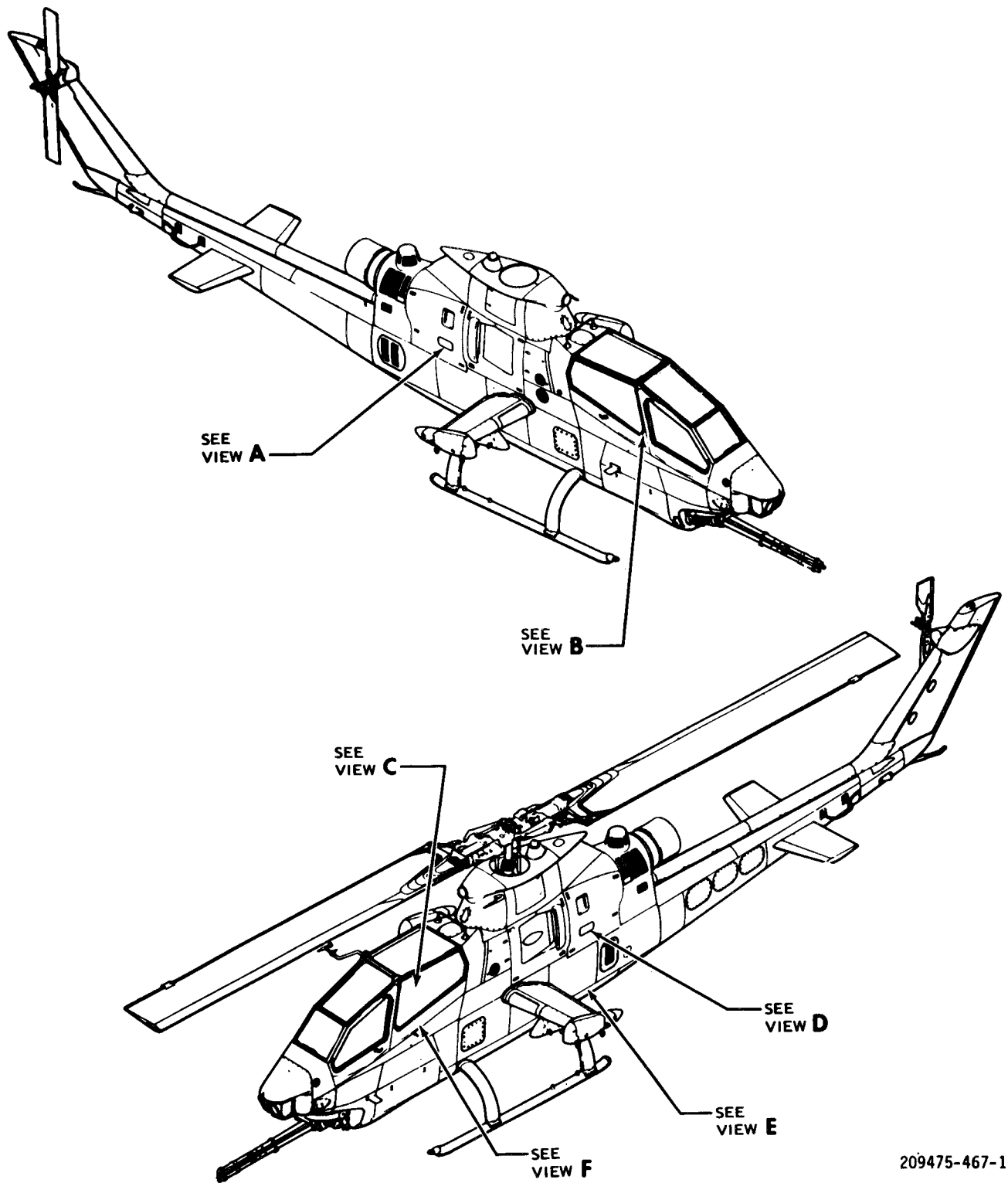


Figure F-62. **M** Fuel Valve and Engine Oil Bypass Valve Systems (Sheet 2 of 8)

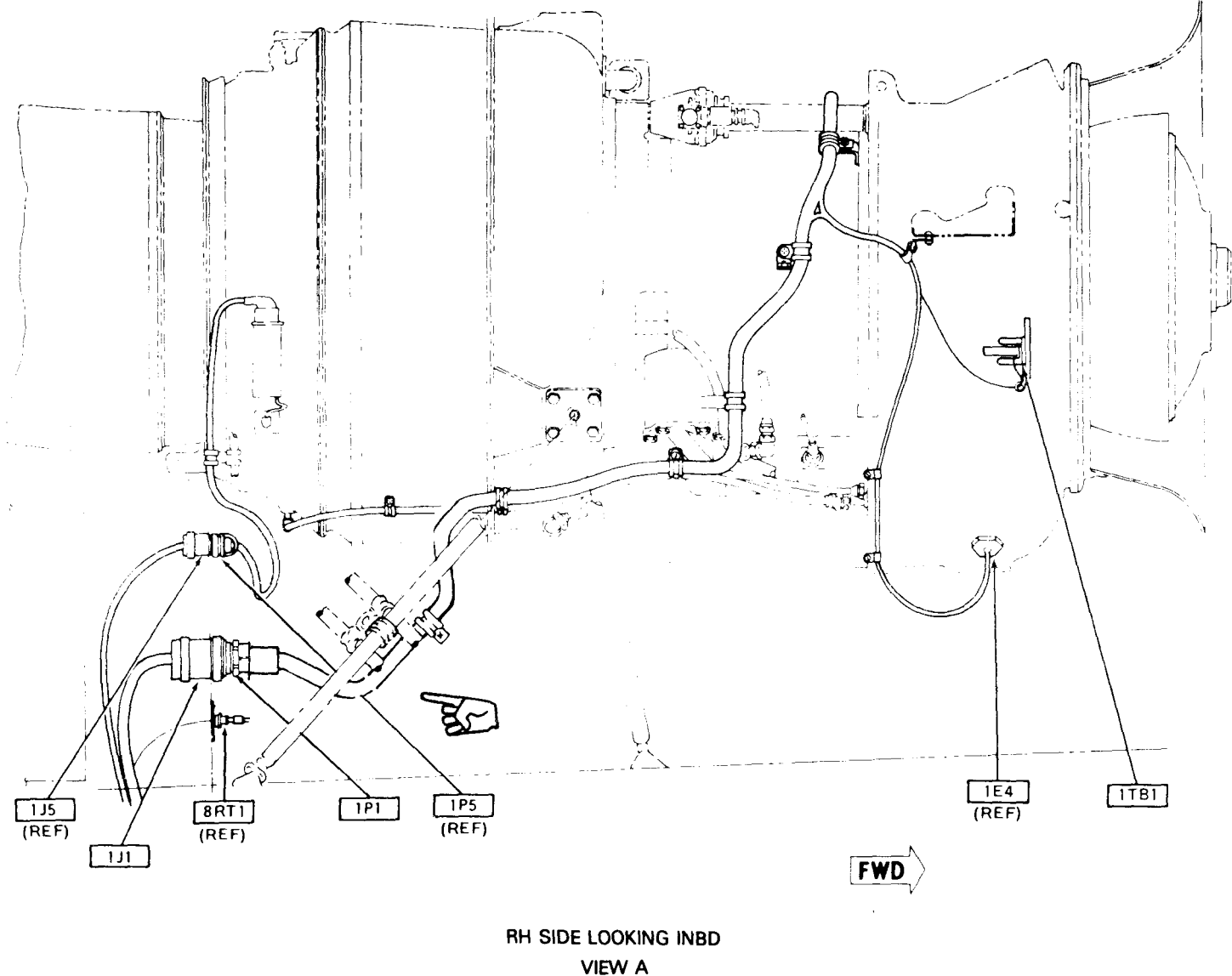
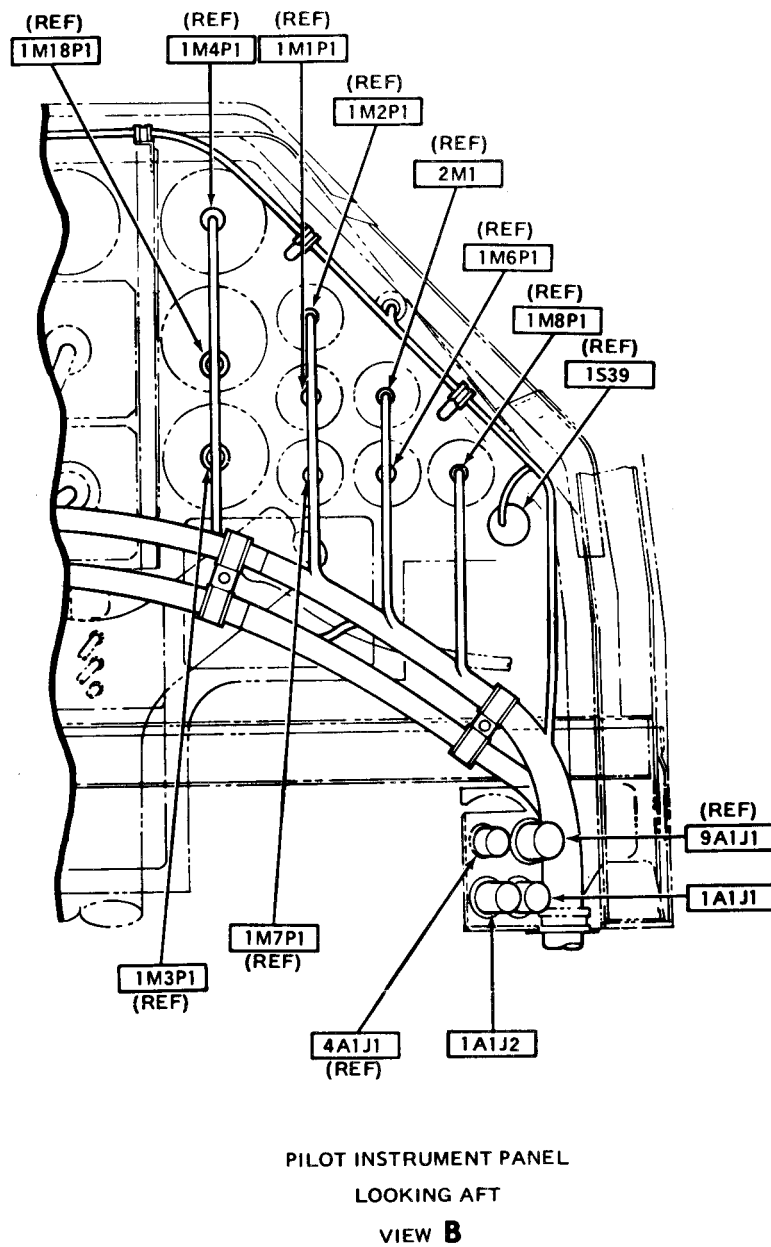
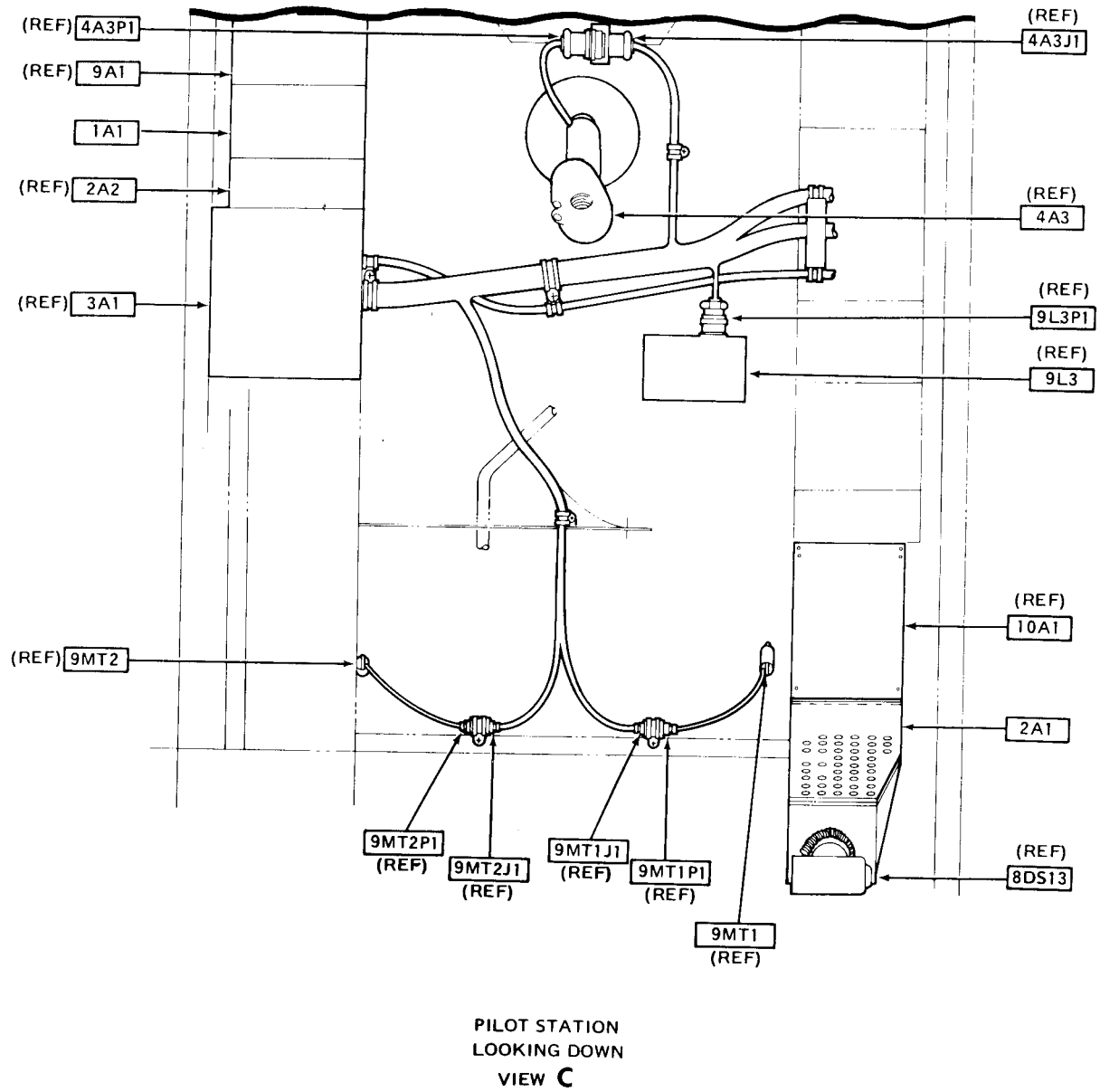


Figure F-62. **M** | Fuel Valve and Engine Oil Bypass Valve Systems (Sheet 3 of 8)



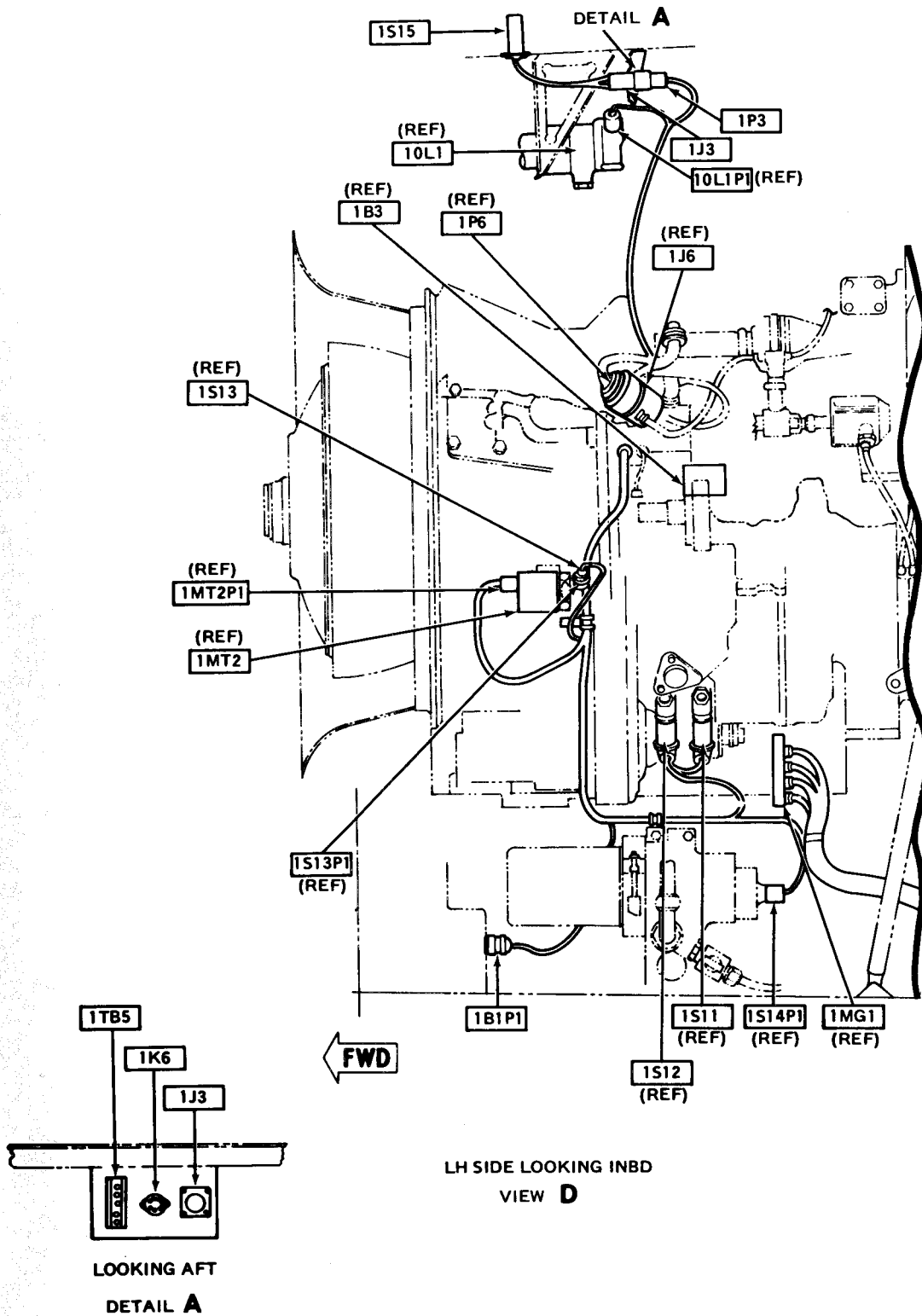
209475-467-3

Figure F-62. **M** Fuel Valve and Engine Oil Bypass Valve Systems (Sheet 4 of 8)



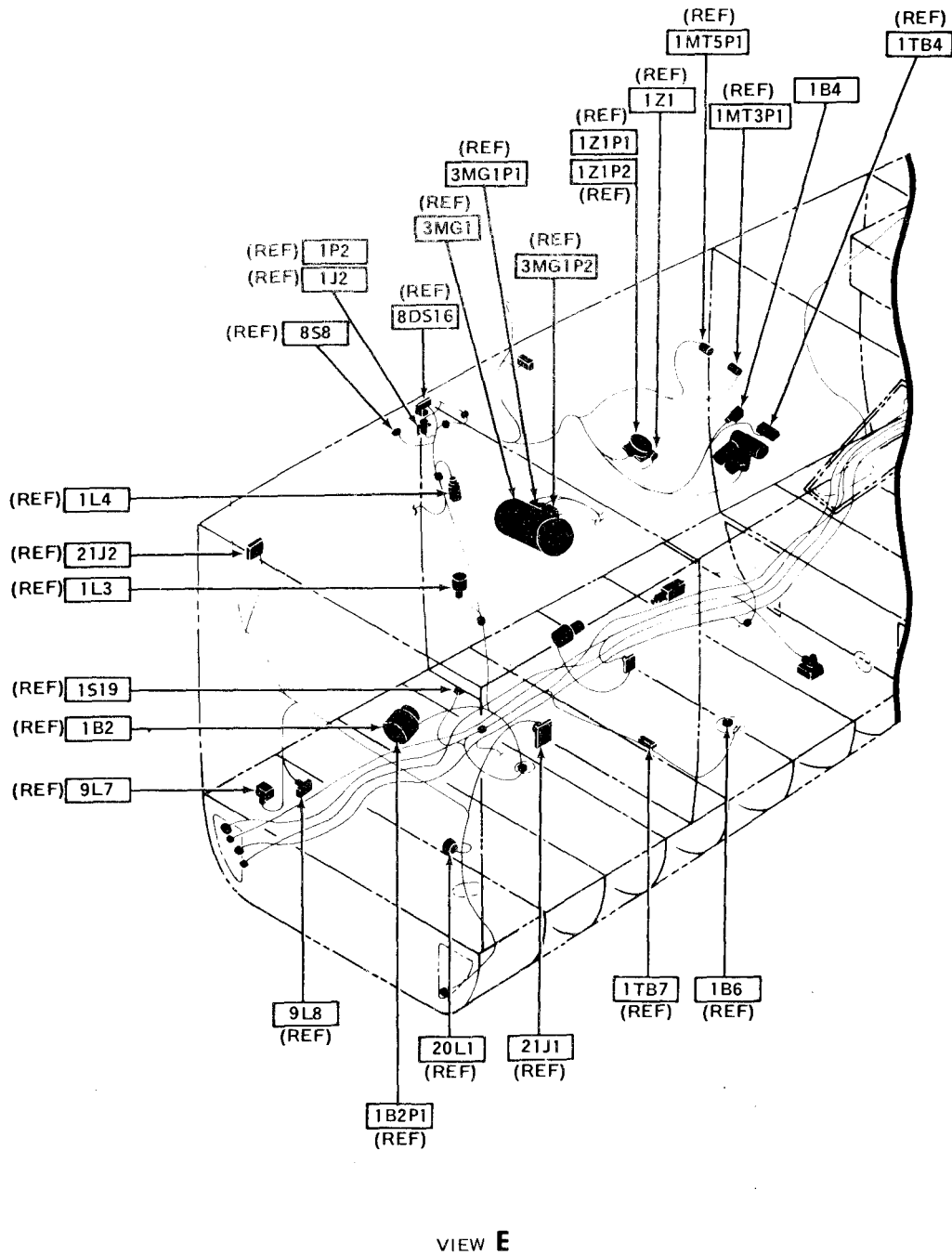
209475-467-4

Figure F-62. **M** Fuel Valve and Engine Oil Bypass Valve Systems (Sheet 5 of 8)



209475-467-5

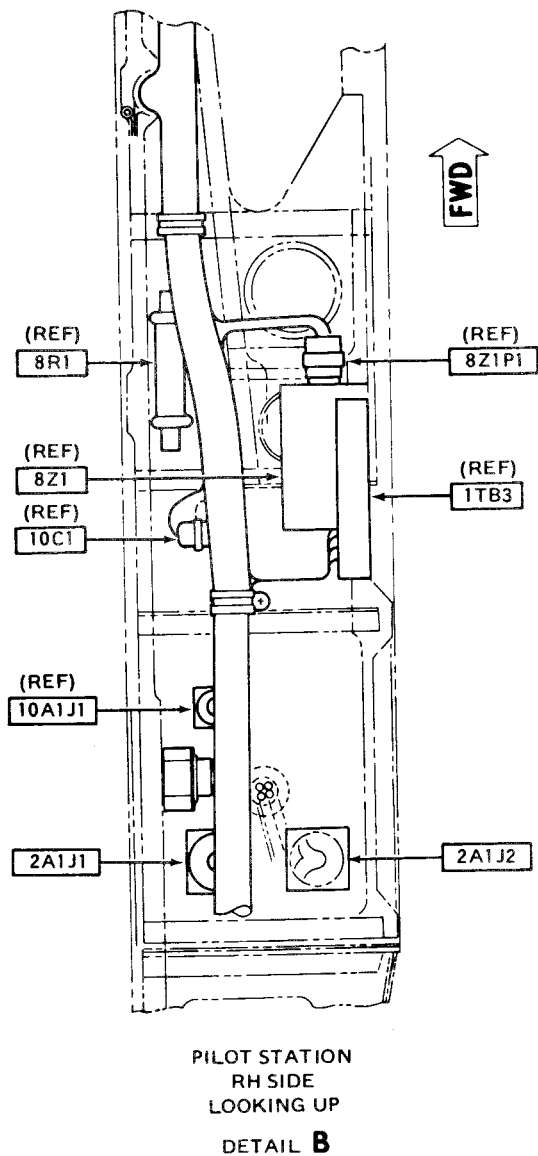
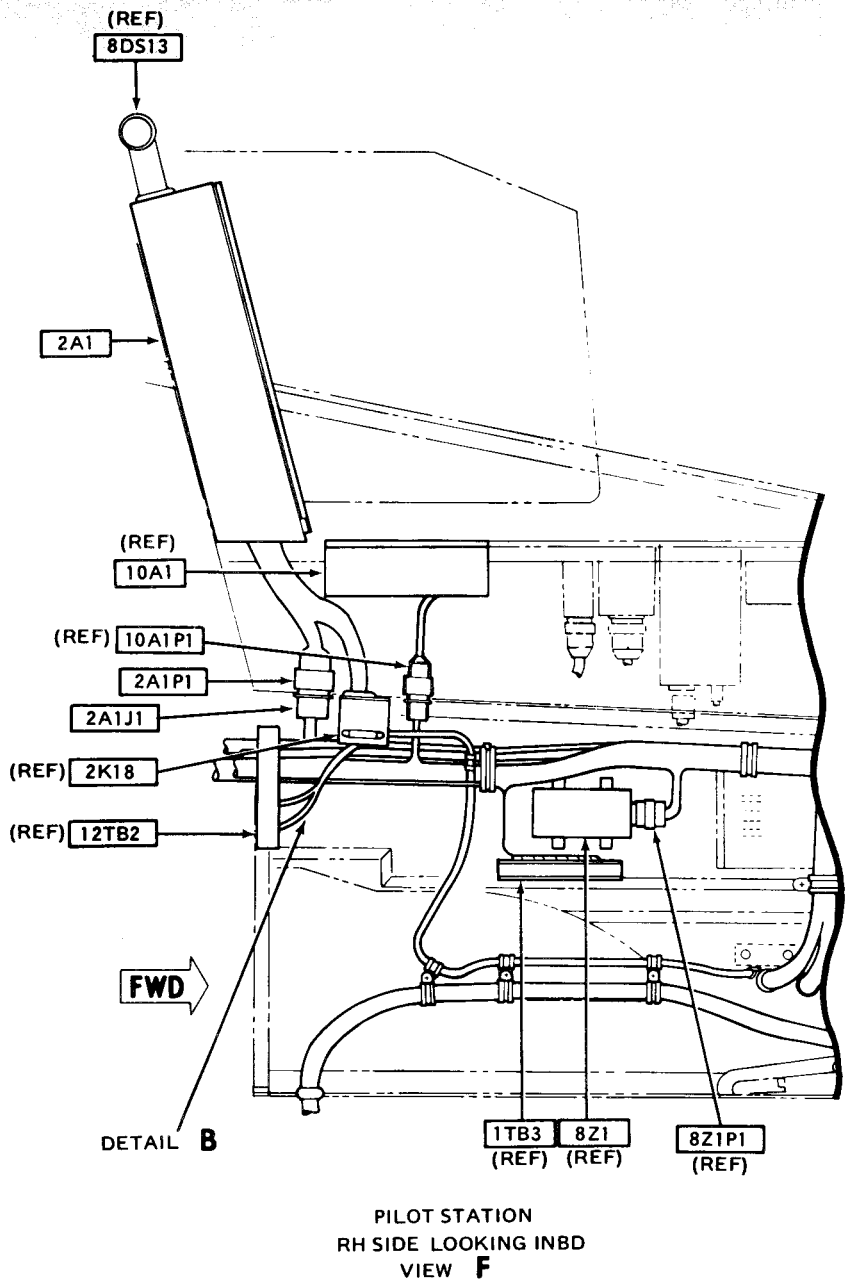
Figure F-62. **M** Fuel Valve and Engine Oil Bypass Valve Systems (Sheet 6 of 8)



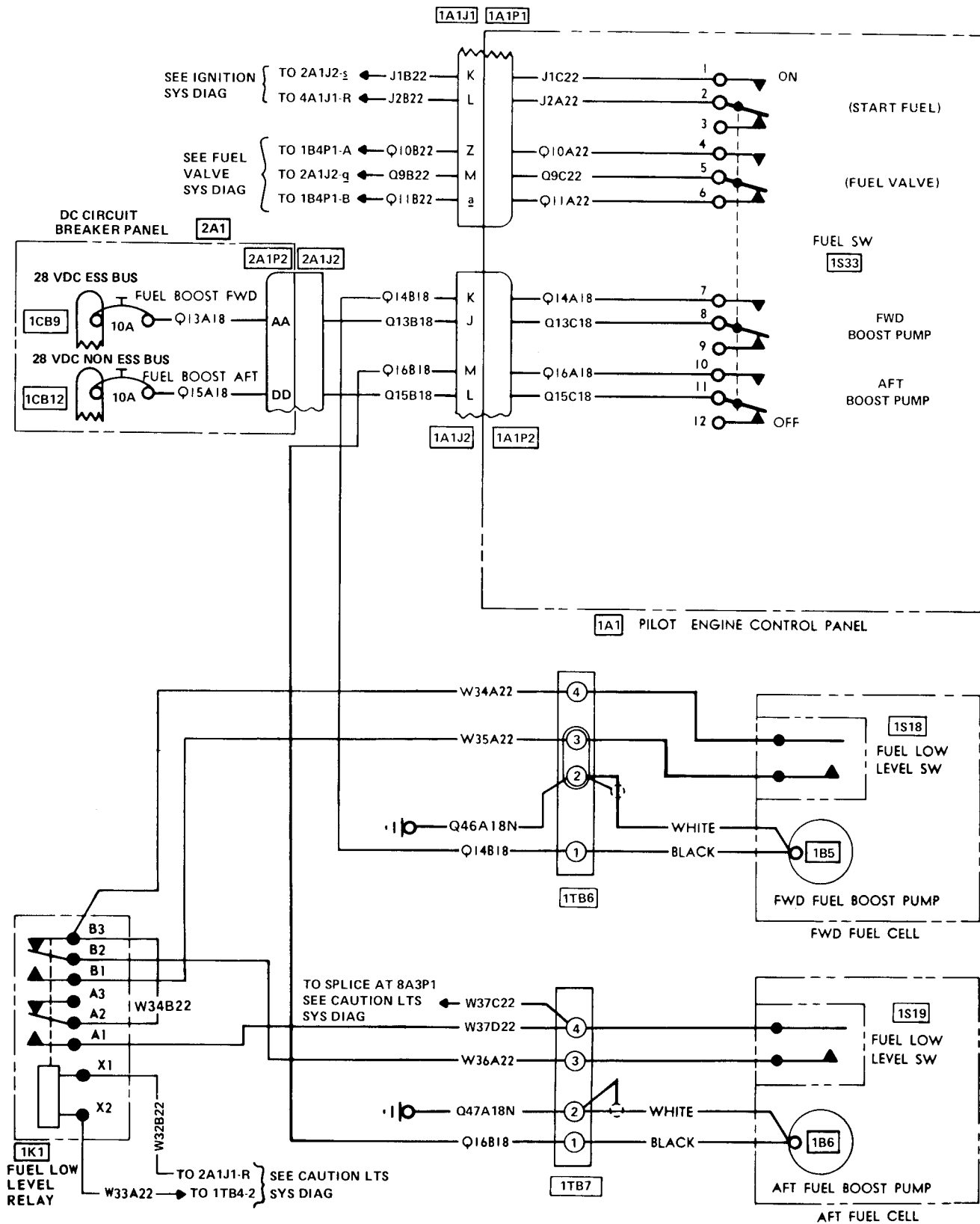
209475-467-6

Figure F-62. **M** Fuel Valve and Engine Oil Bypass Valve Systems (Sheet 7 of 8)

Figure F-62. Fuel Valve and Engine Oil Bypass Valve Systems (Sheet 8 of 8)

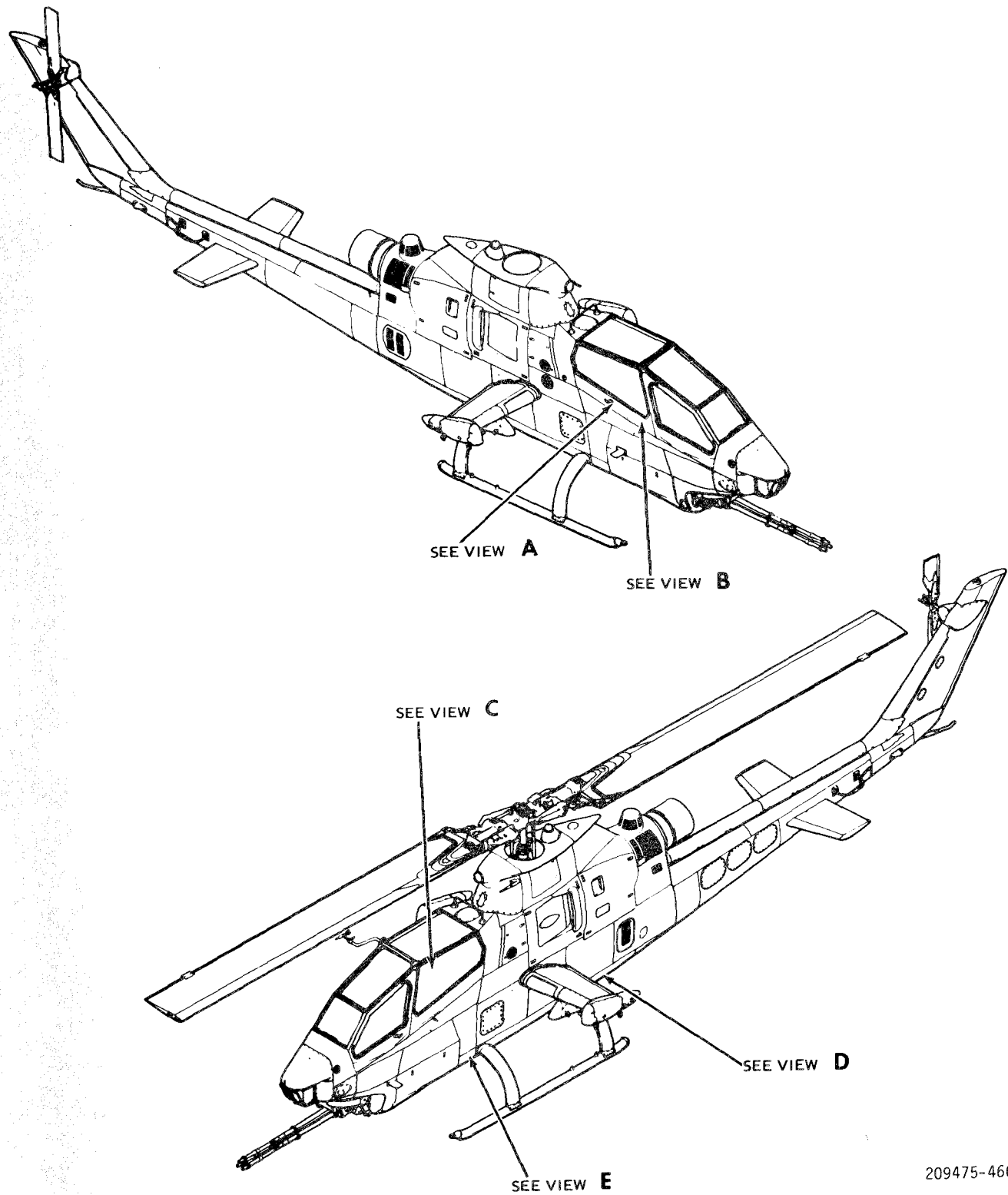


209475-467-7



209475-418

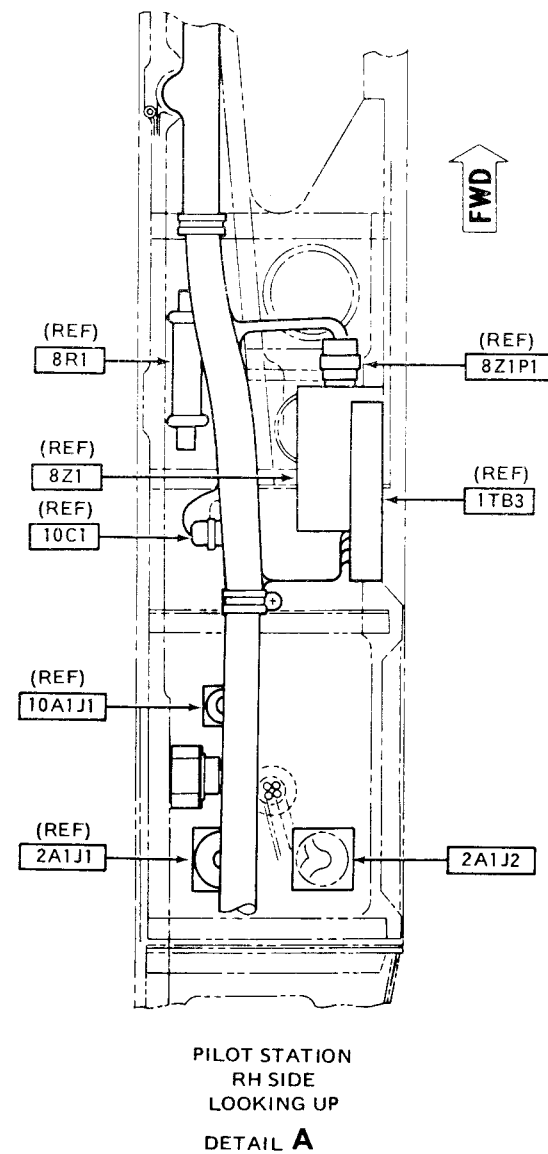
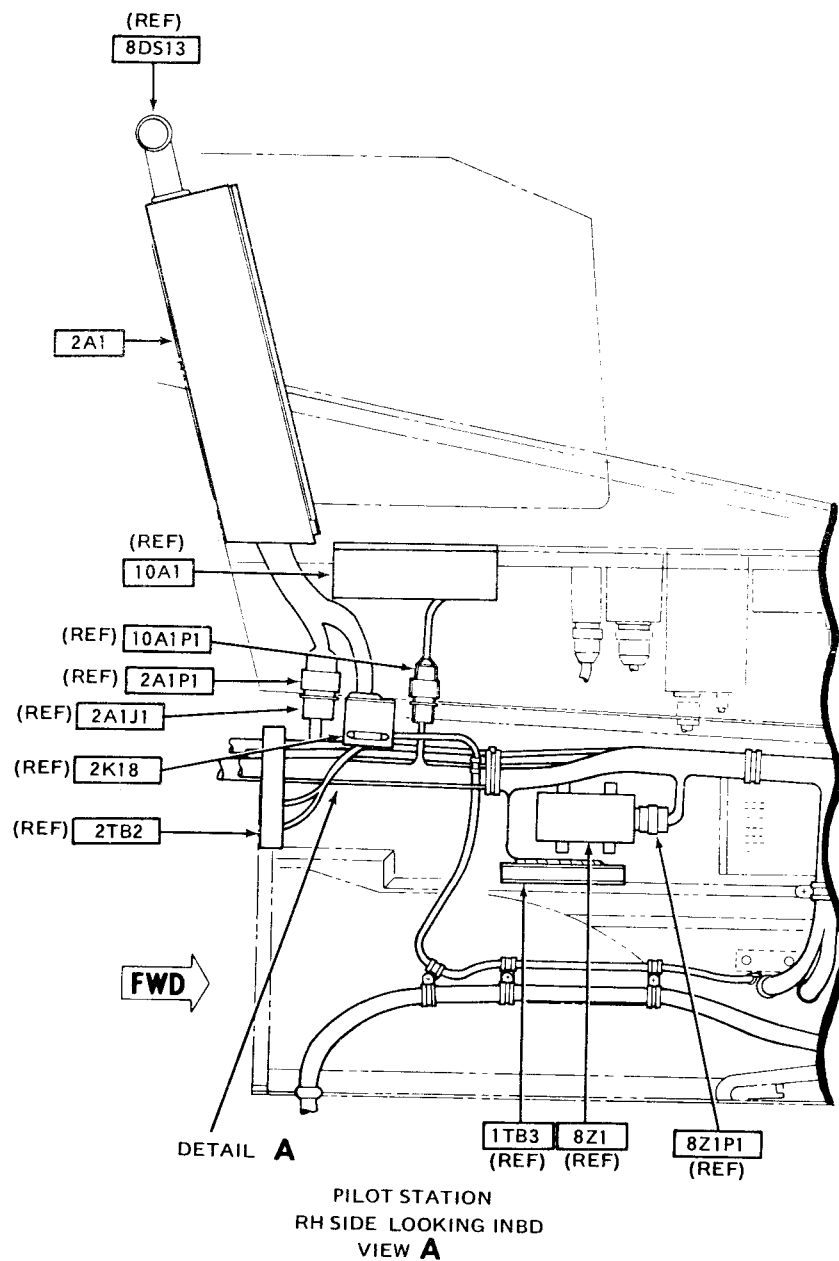
Figure F-63. ^M Fuel Boost System (Sheet 1 of 7)



209475-466-1

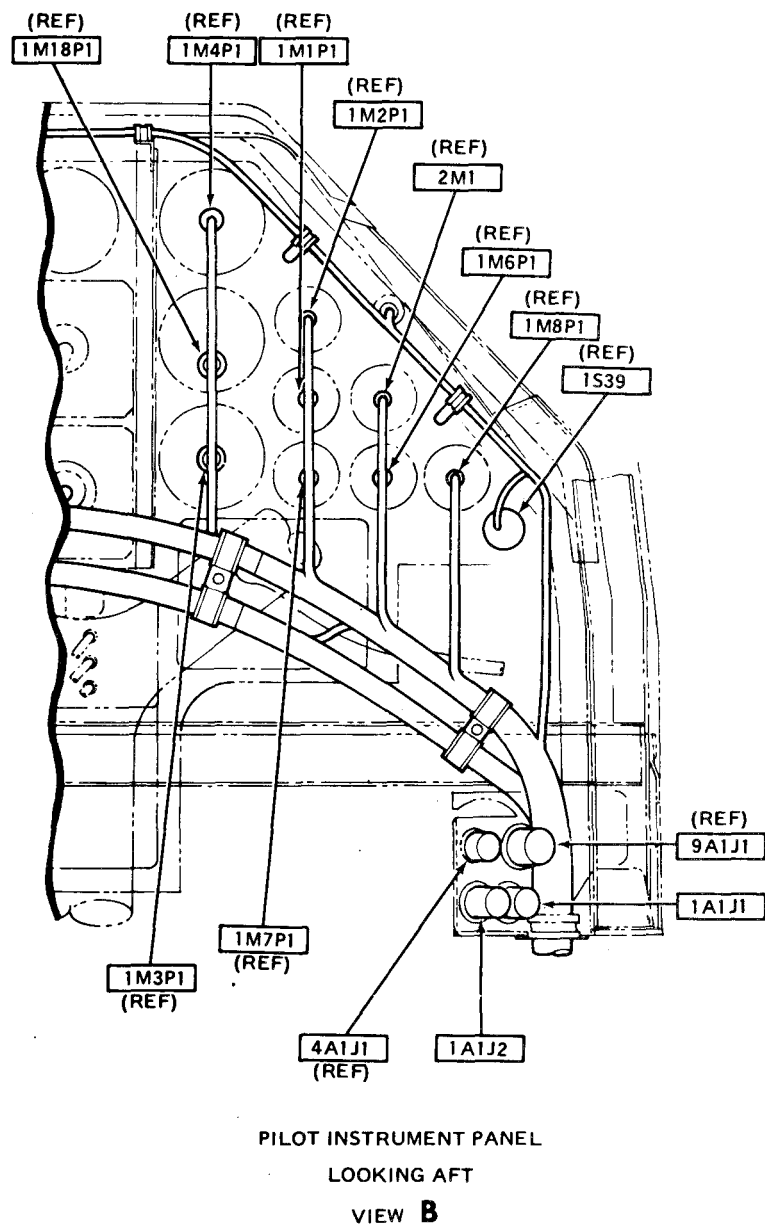
Figure F-63. Fuel Boost System (Sheet 2 of 7)

M



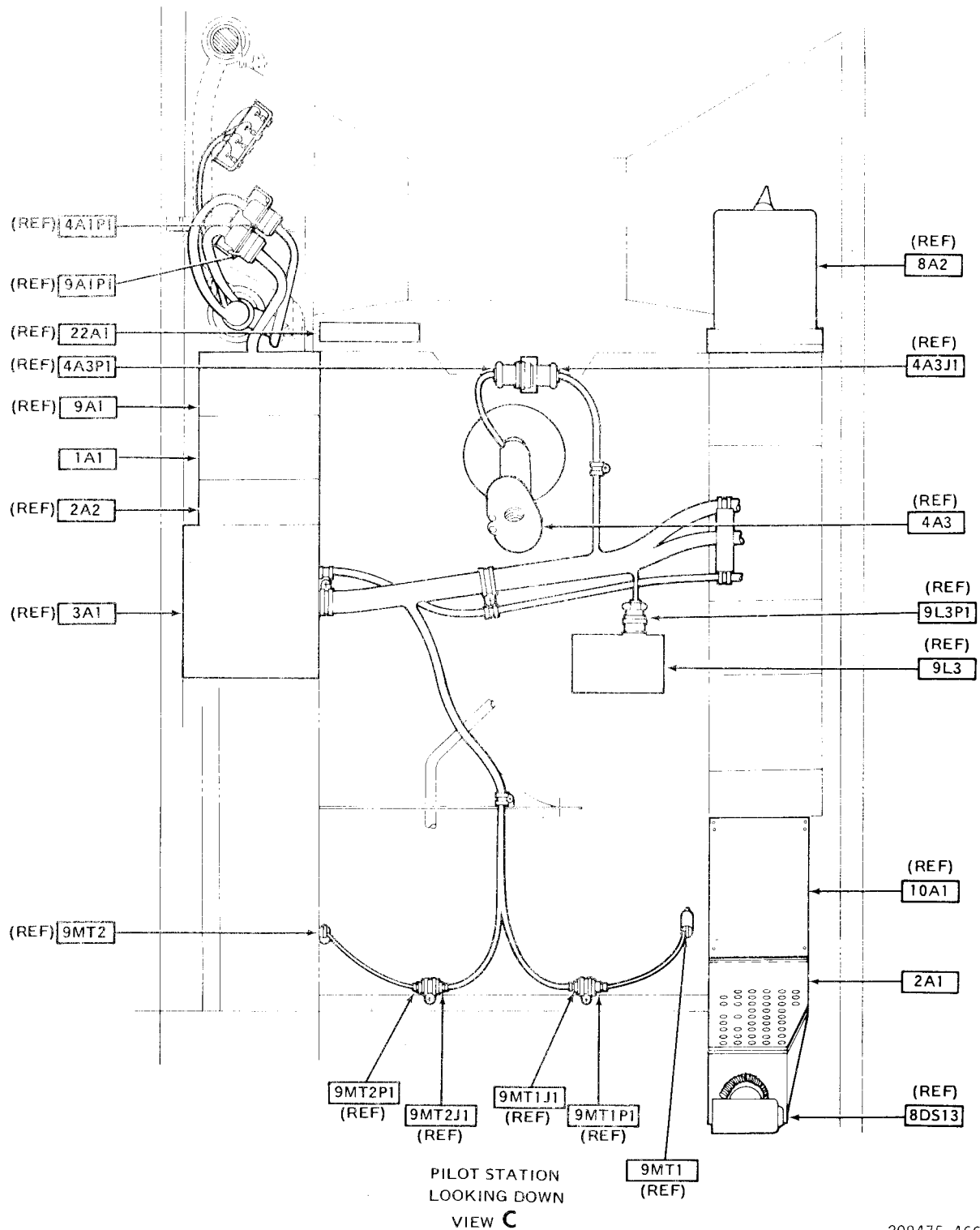
209475-466-2

Figure F-63. M Fuel Boost System (Sheet 3 of 7)



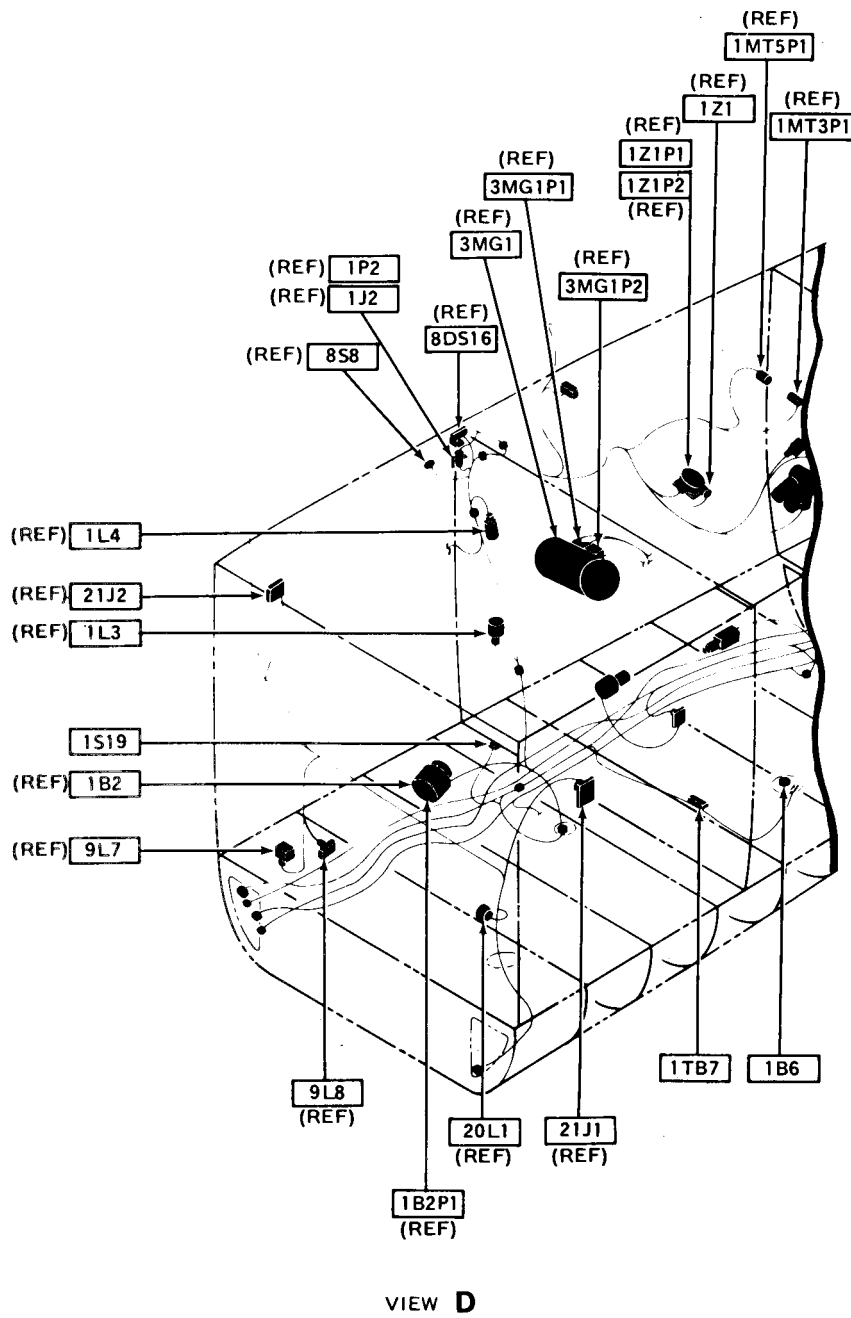
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Figure F-63. **M** Fuel Boost System (Sheet 4 of 7)



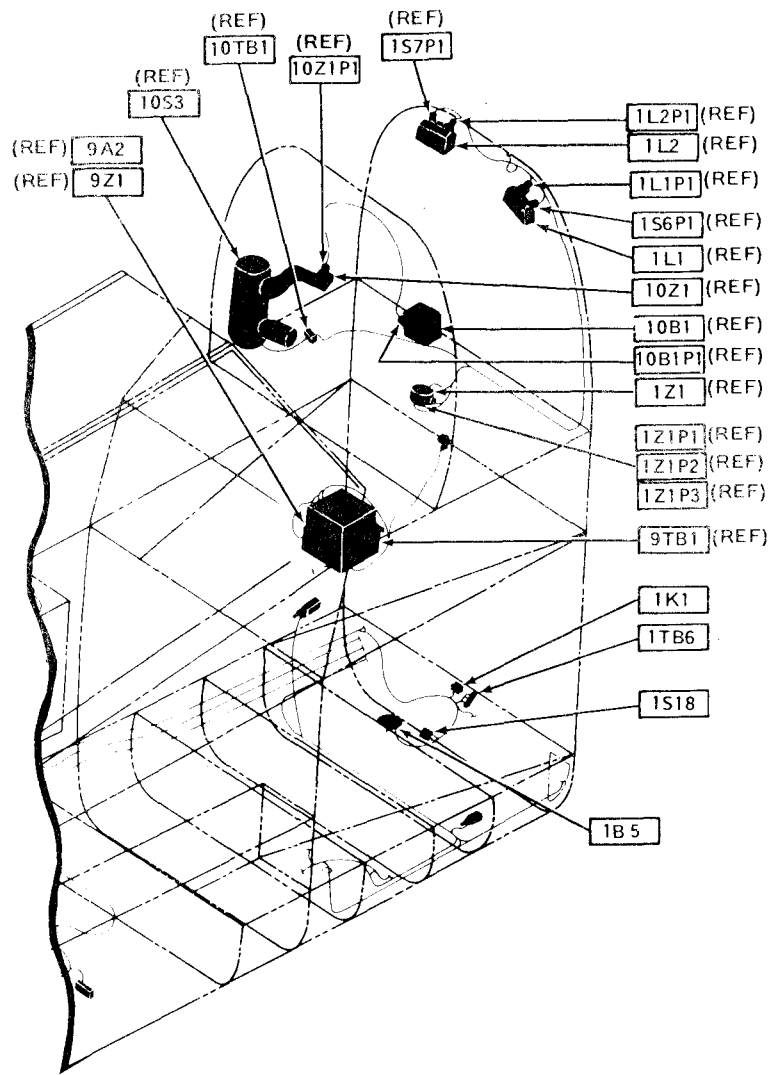
209475-466-4

Figure F-63. **M** Fuel Boost System (Sheet 5 of 7)



209475-466-5

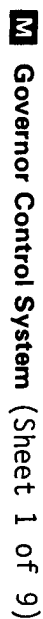
Figure F-63. **M** Fuel Boost System (Sheet 6 of 7)

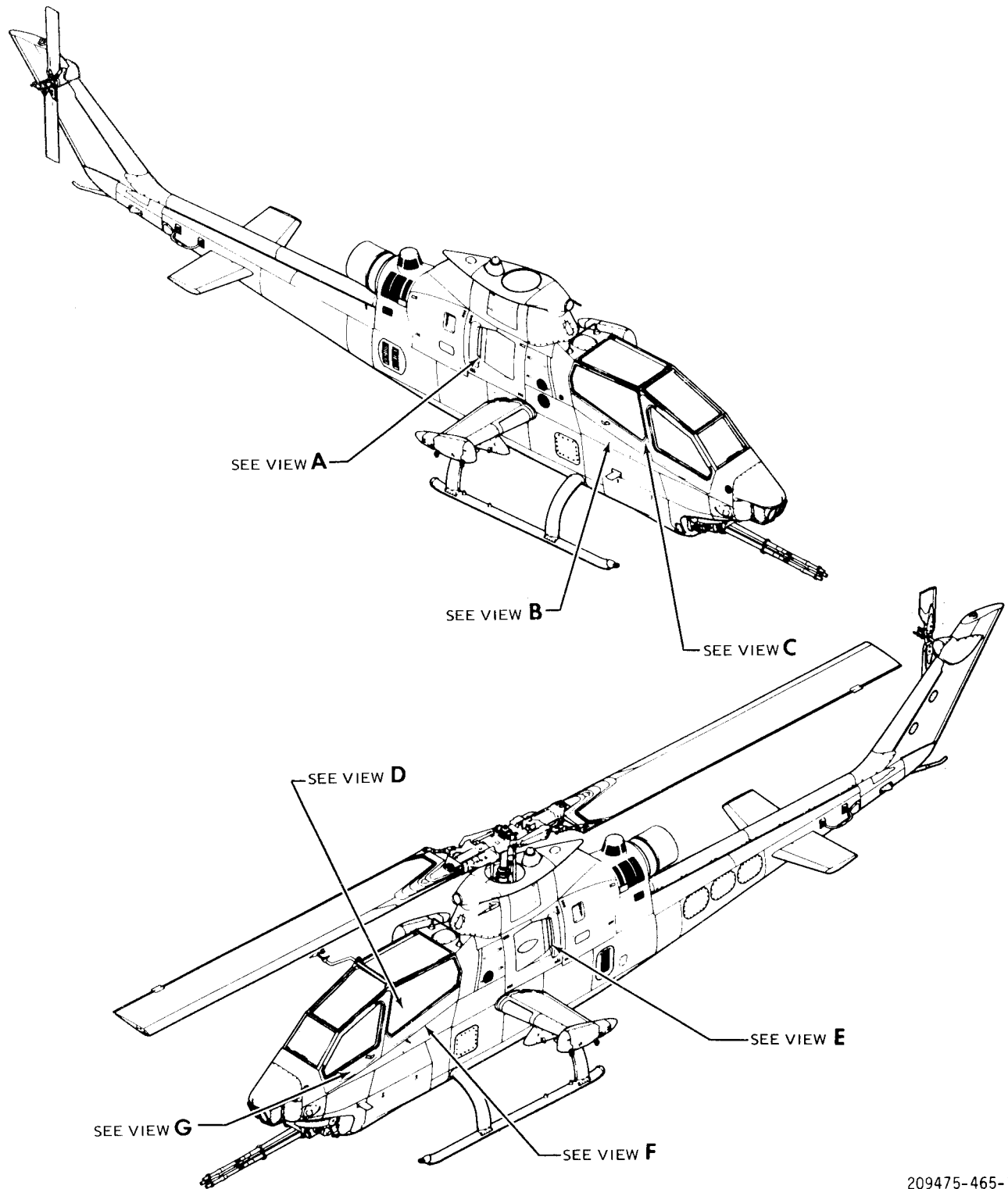


VIEW E

209475-466-6

Figure F-63. **M** Fuel Boost System (Sheet 7 of 7)





209475-465-1

Figure F-64. **M** Governor Control System (Sheet 2 of 9)

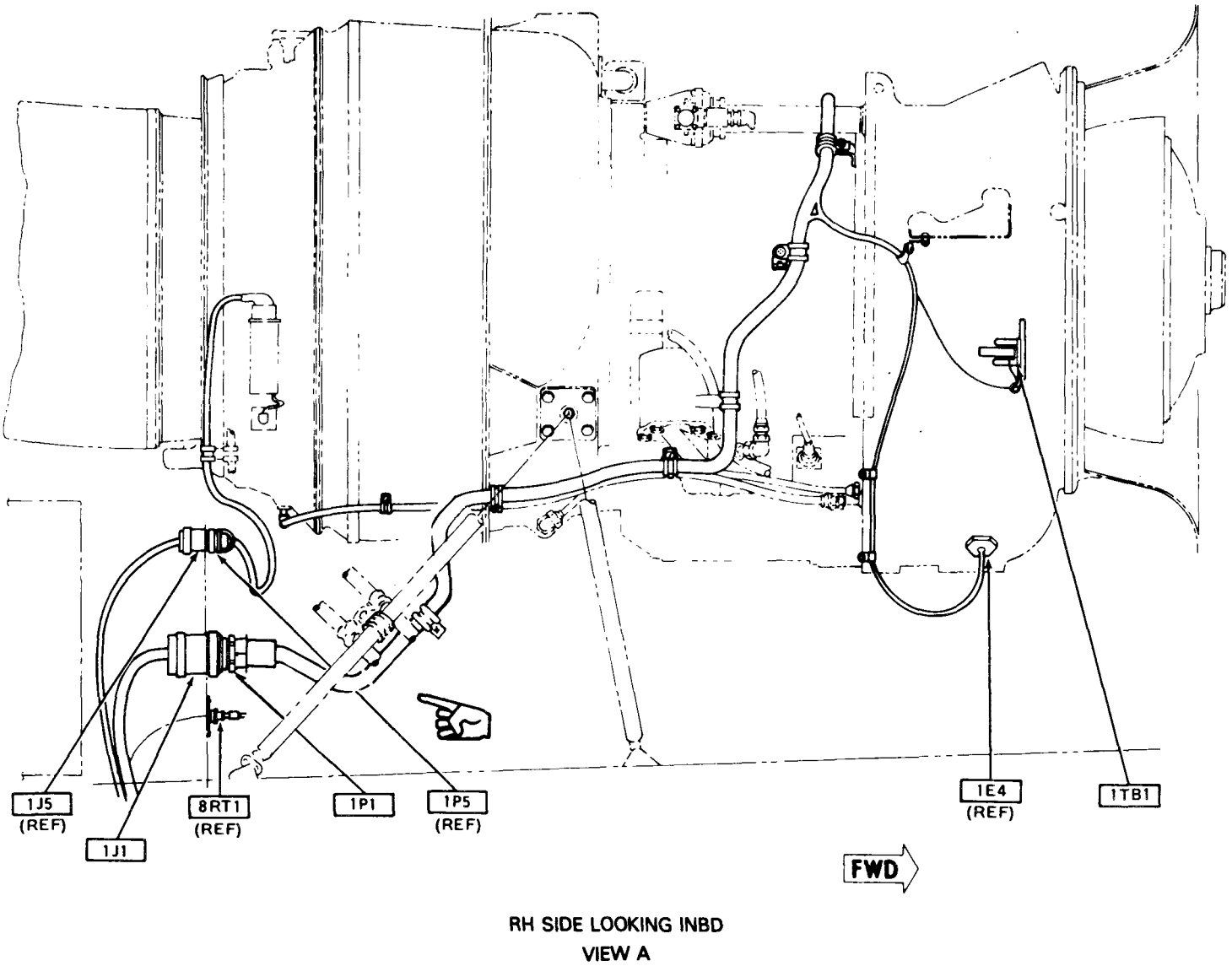
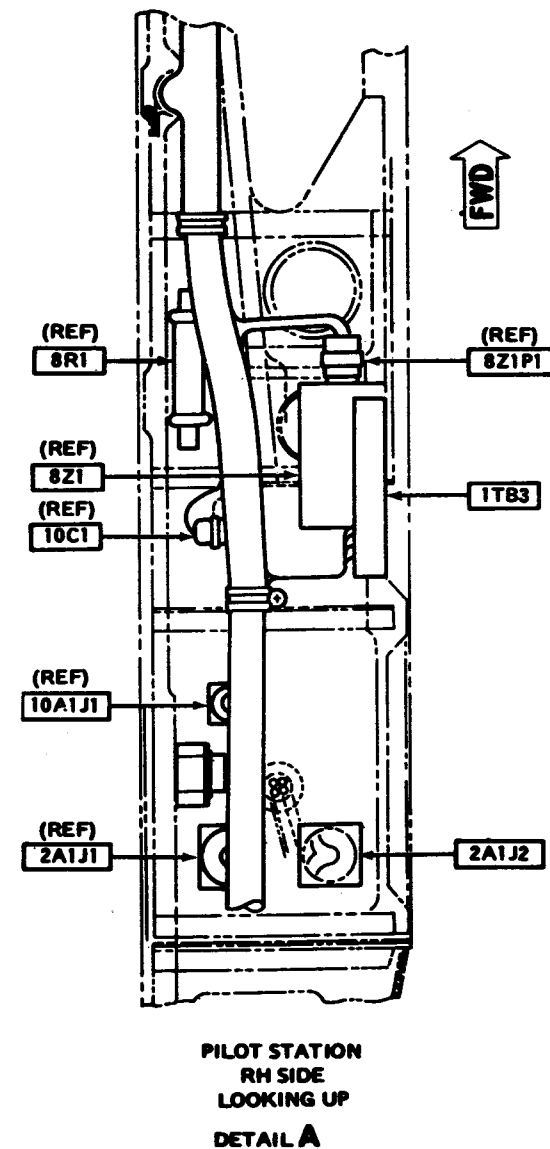
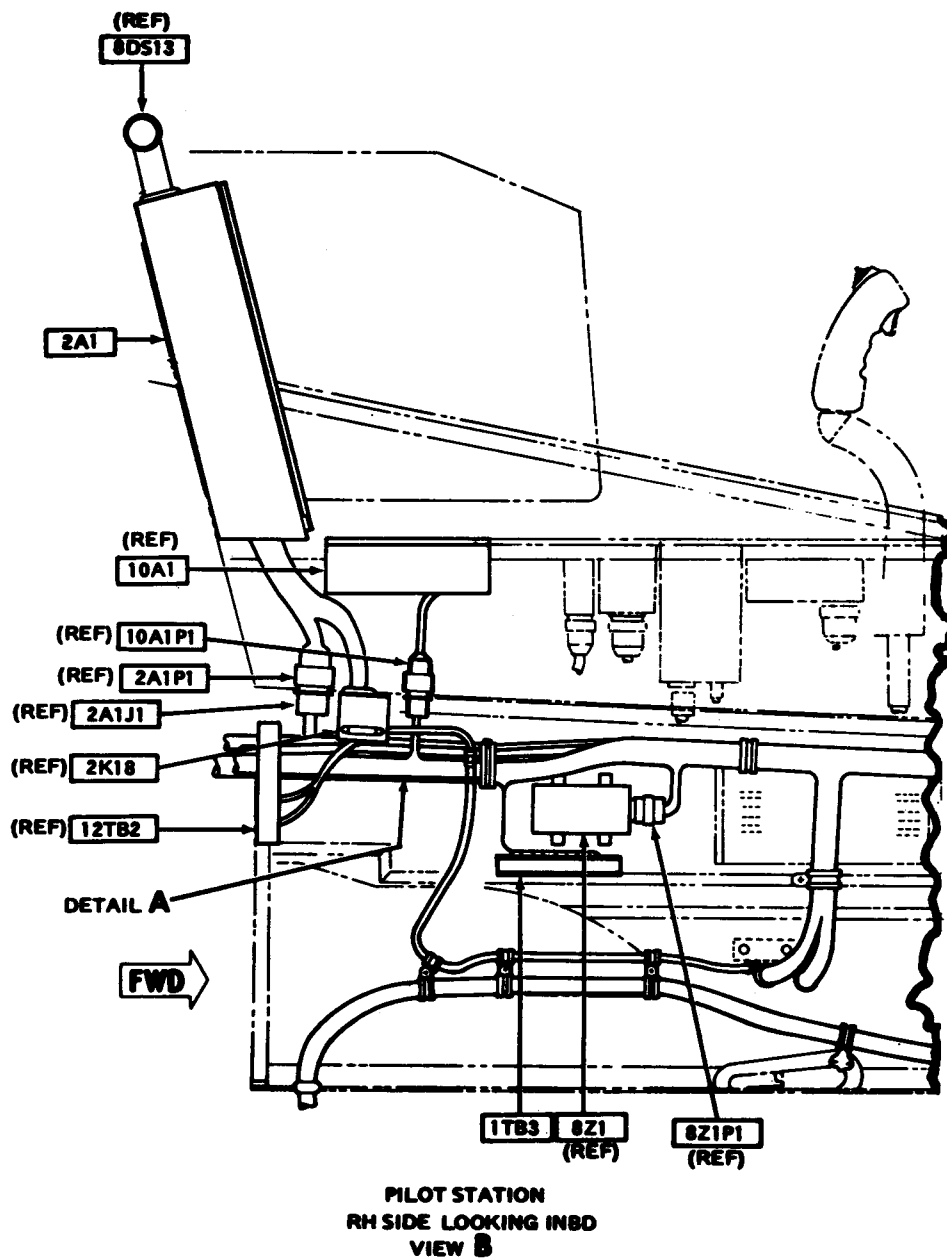
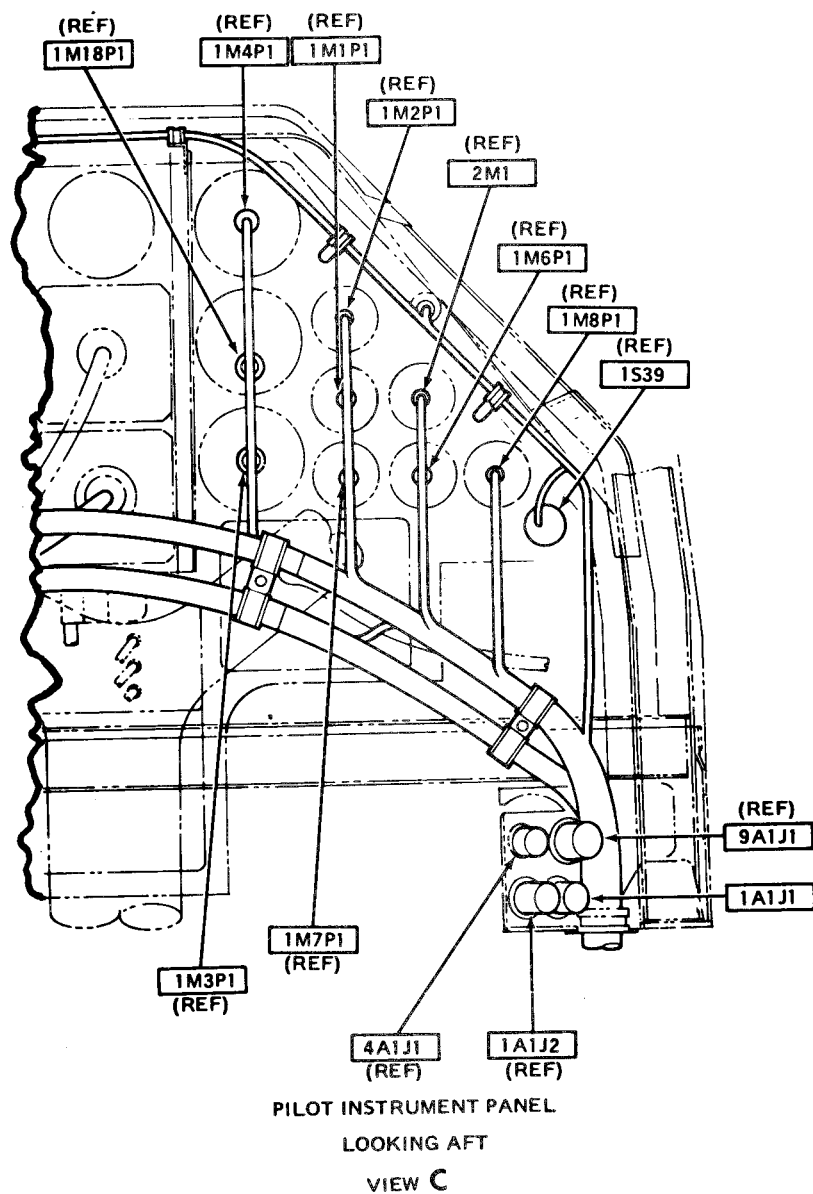


Figure F-64. **M** Governor Control System (Sheet 3 of 9)

F-310

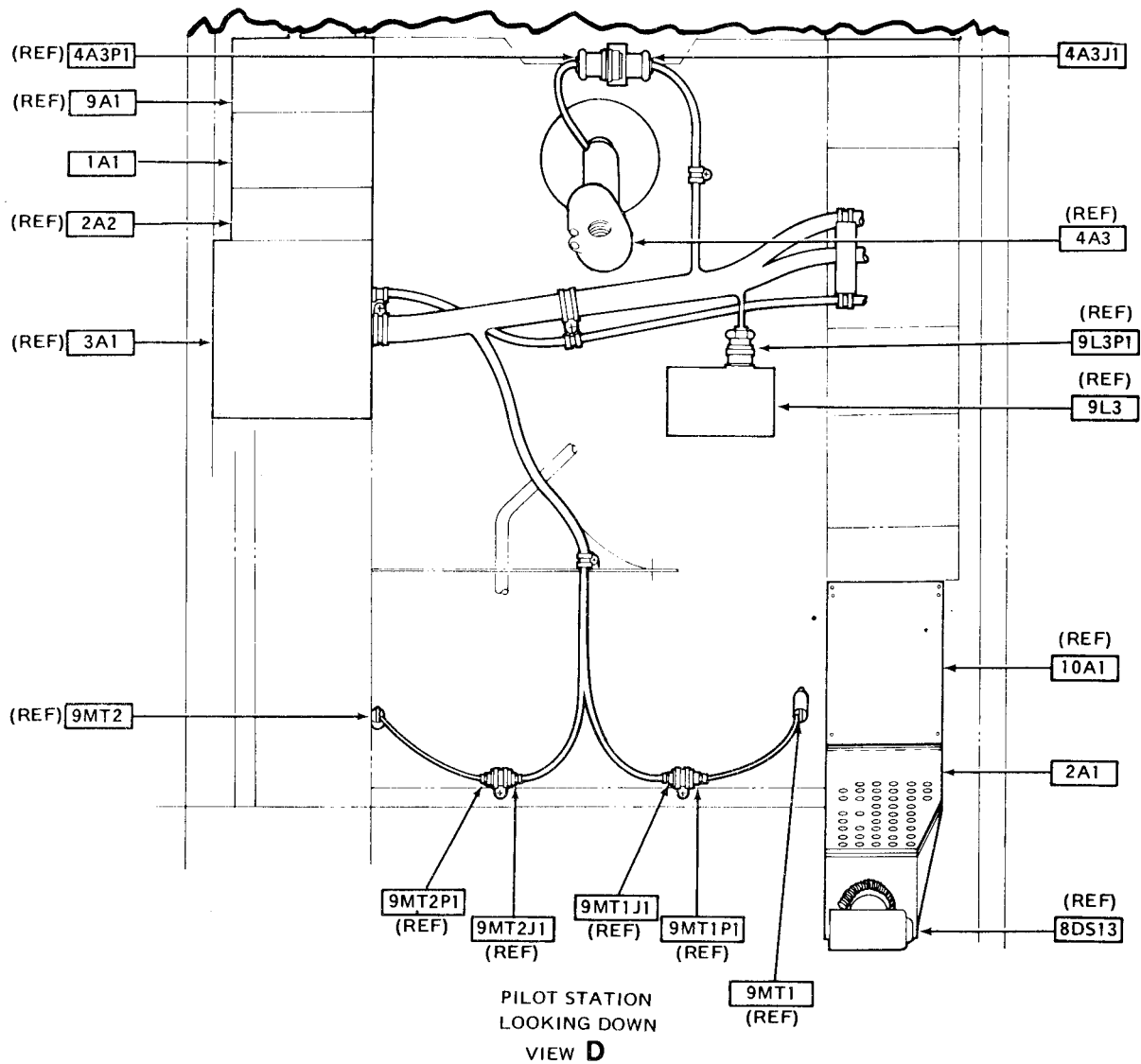
Figure F-64. **M** Governor Control System (Sheet 4 of 9)





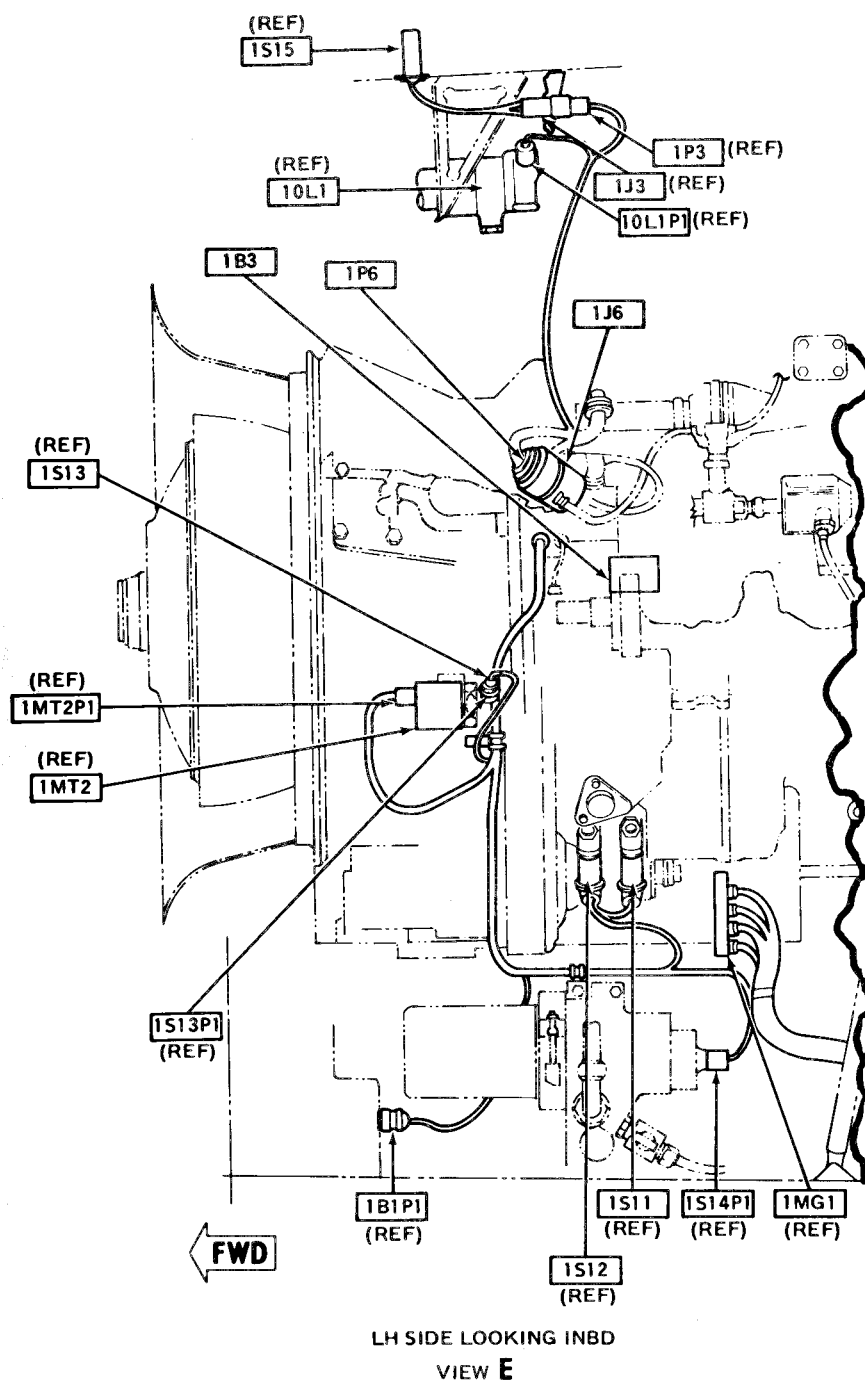
209475-465-4

Figure F-64. **M** Governor Control System (Sheet 5 of 9)



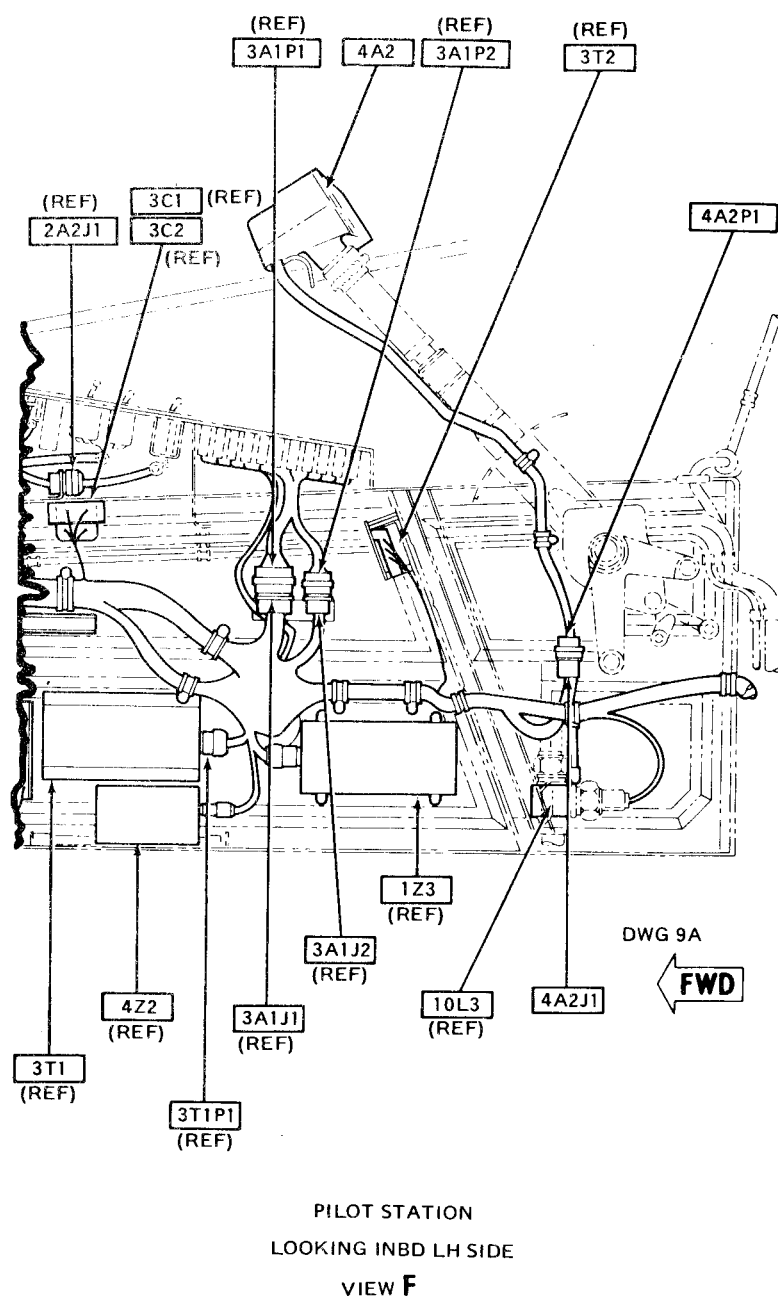
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Figure F-64. **M** Governor Control System (Sheet 6 of 9)



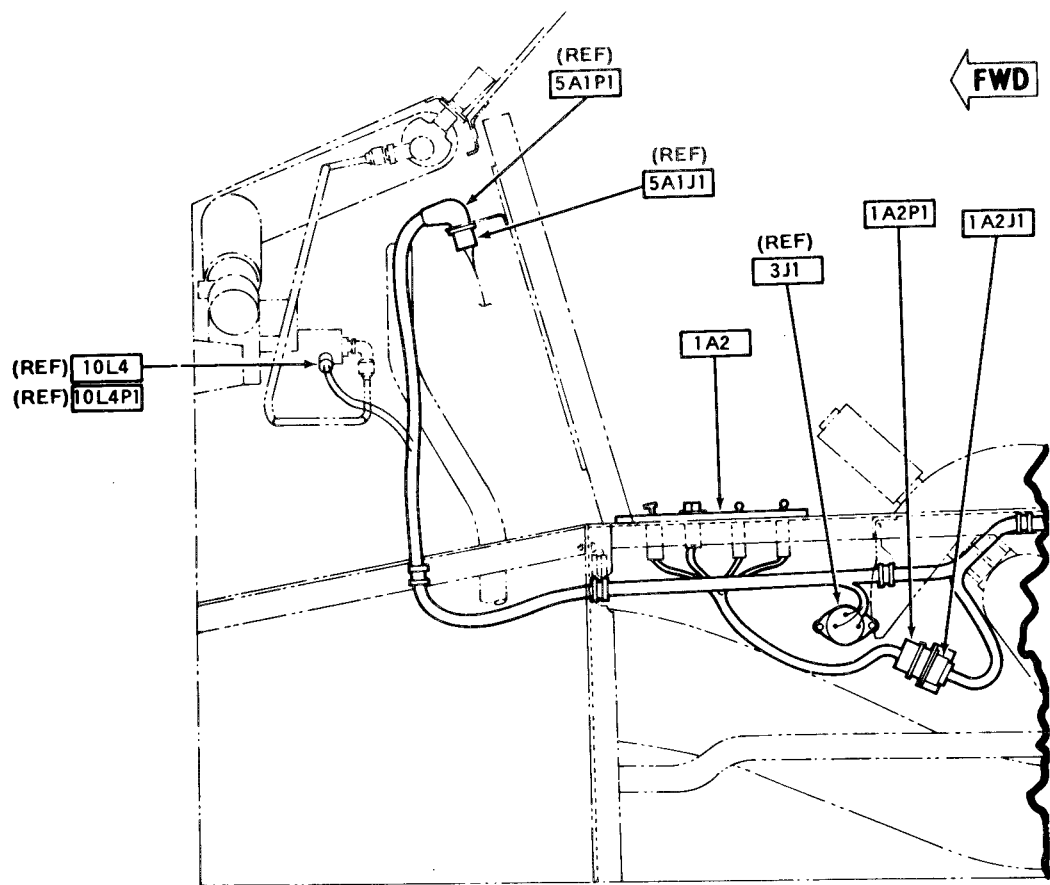
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Figure F-64. **M** Governor Control System (Sheet 7 of 9)



209475-465-7

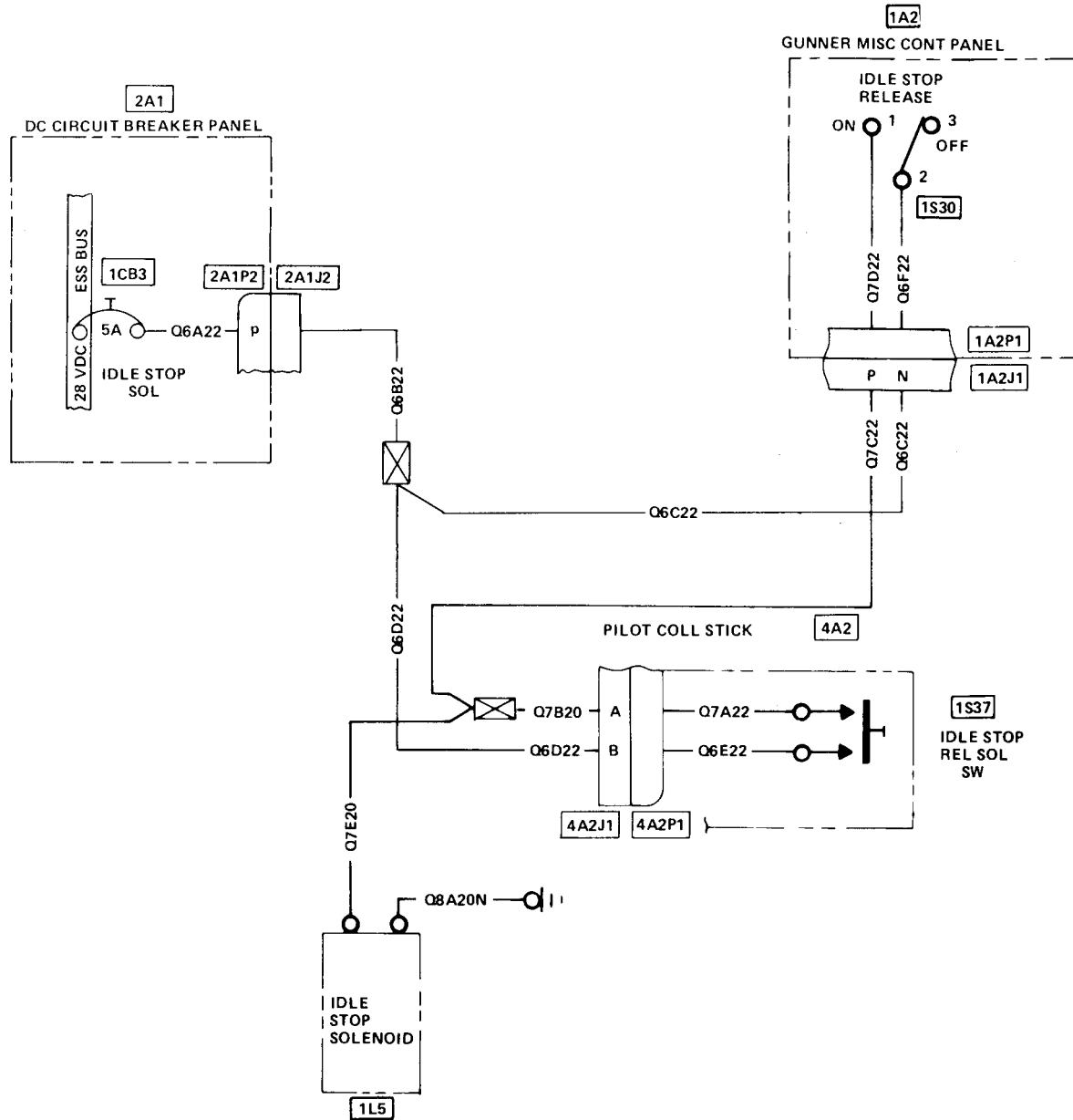
Figure F-64. **M** Governor Control System (Sheet 8 of 9)



GUNNER STATION
LOOKING INBD LH SIDE
VIEW G

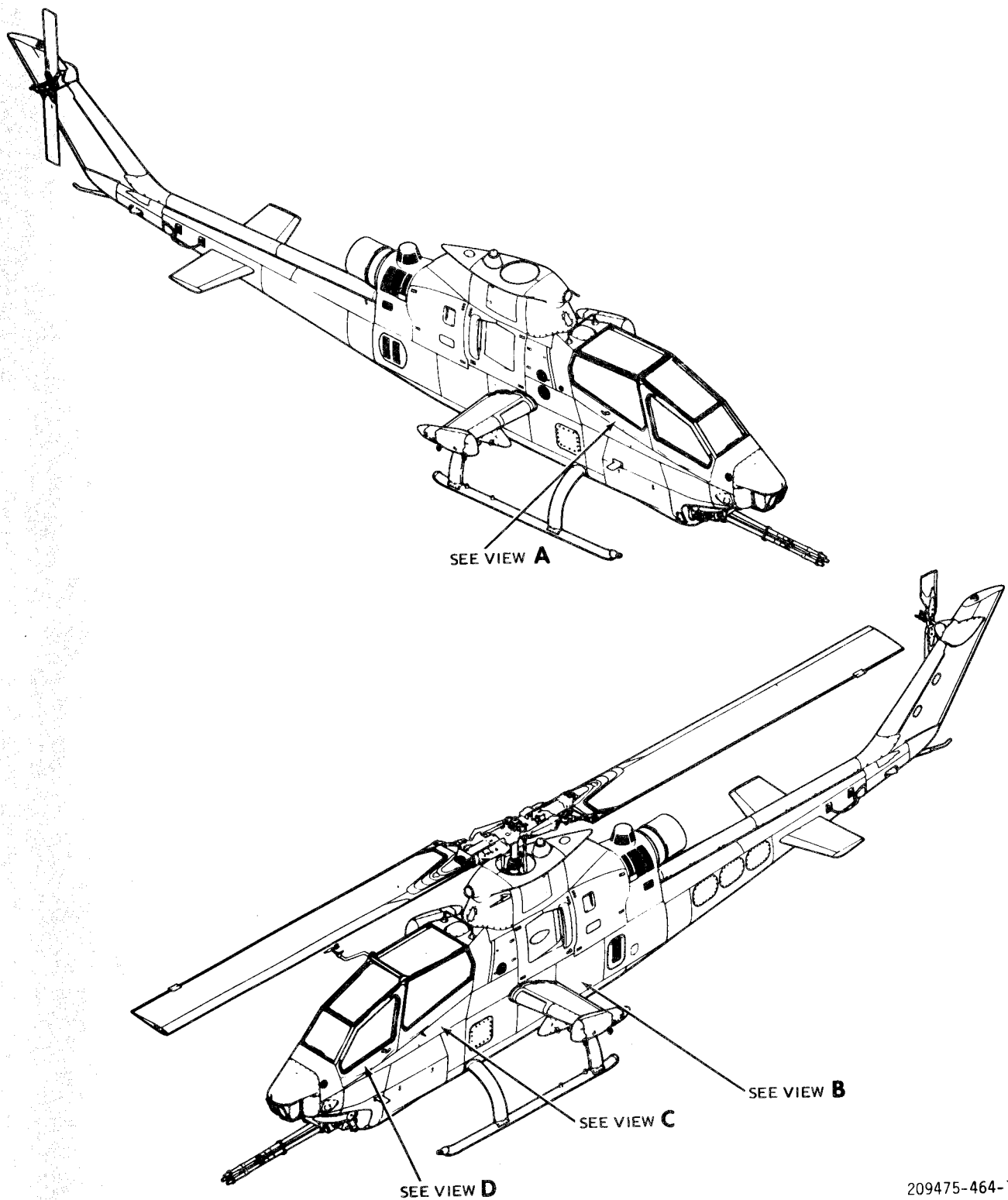
209475-465-8

Figure F-64. **M** Governor Control System (Sheet 9 of 9)



209475-432

Figure F-65. **M** Idle Stop System (Sheet 1 of 6)

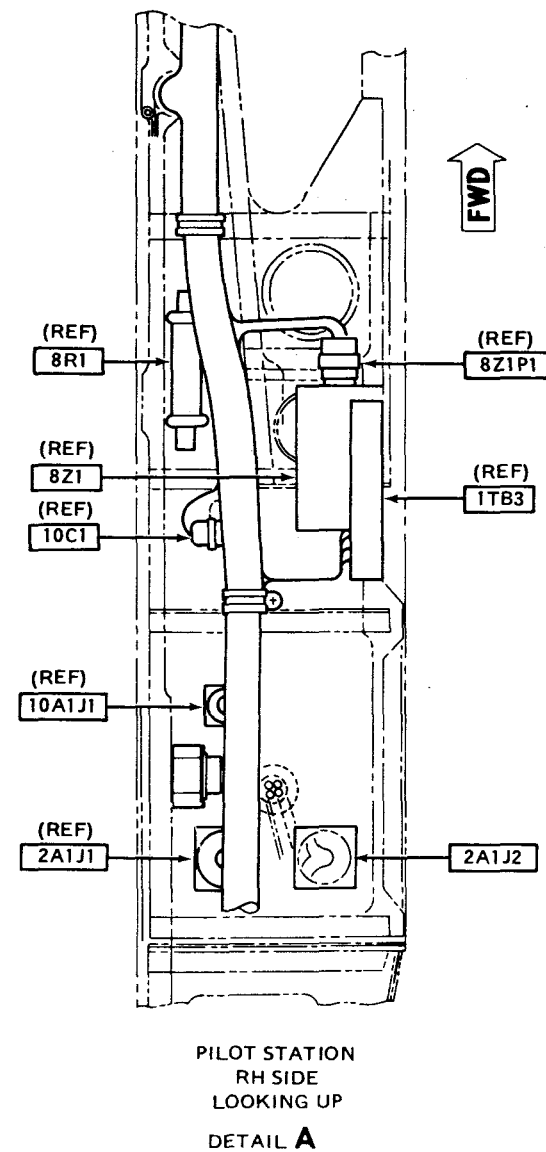
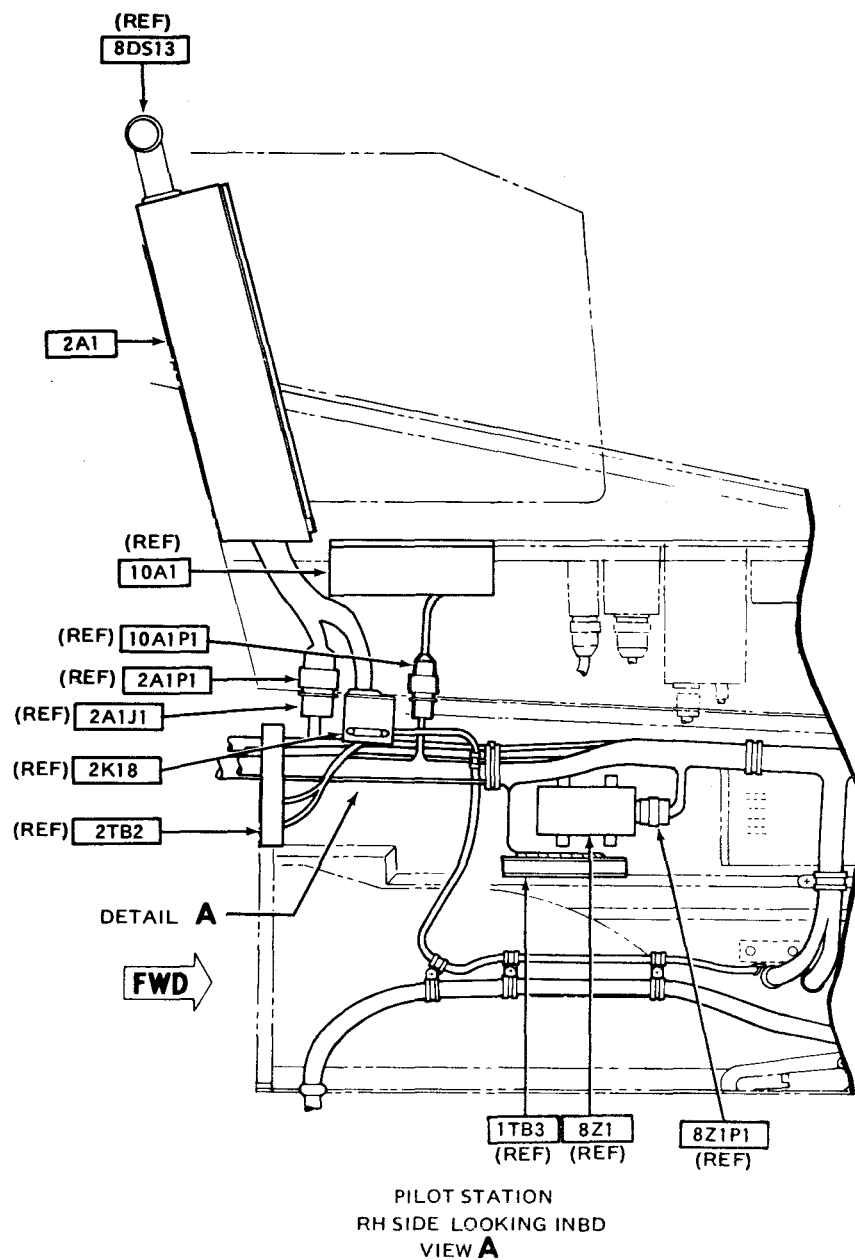


209475-464-1

Figure F-65. **M** Idle Stop System (Sheet 2 of 6)

F-318

Figure F-65. **M** Idle Stop System (Sheet 3 of 6)



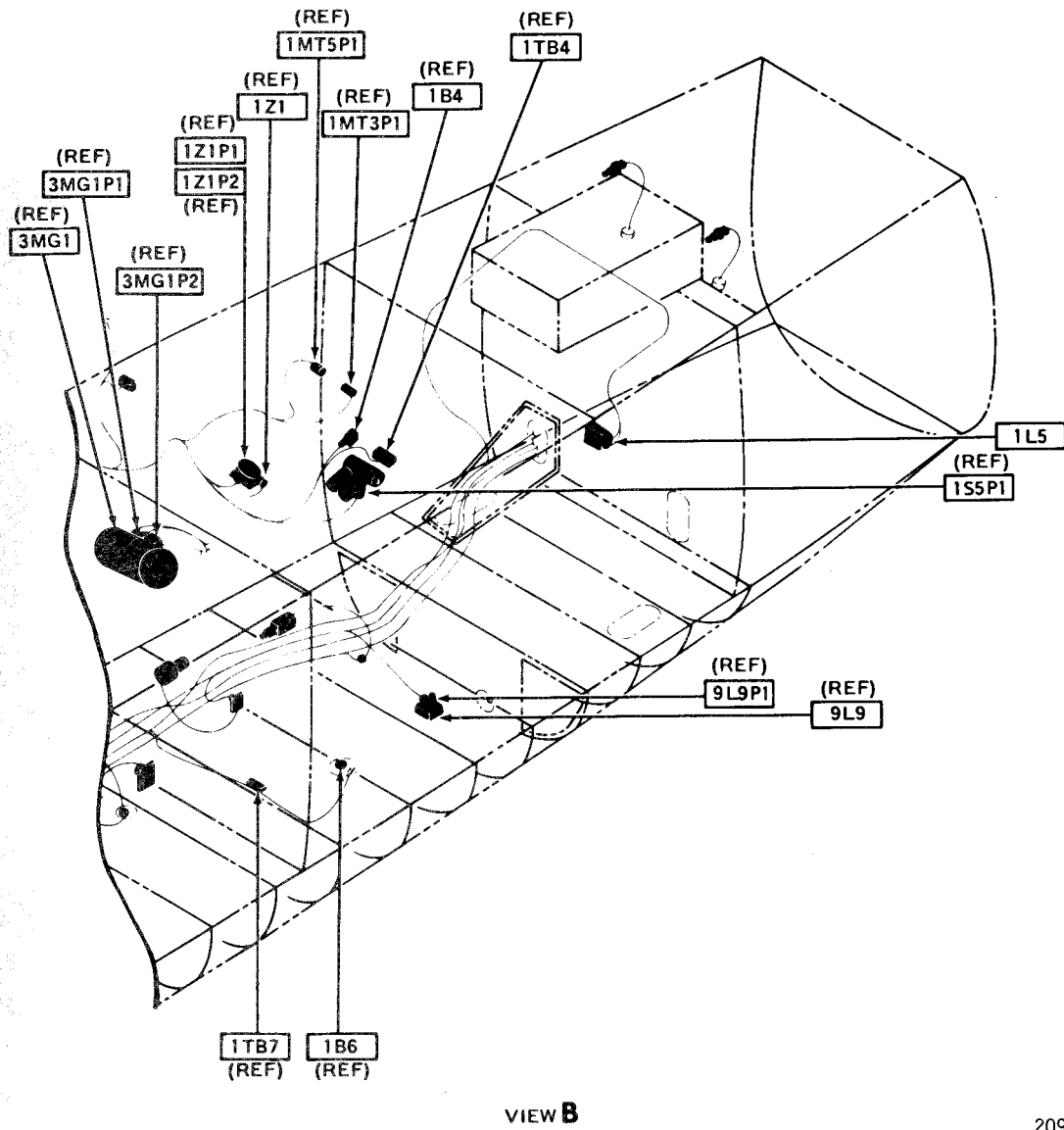
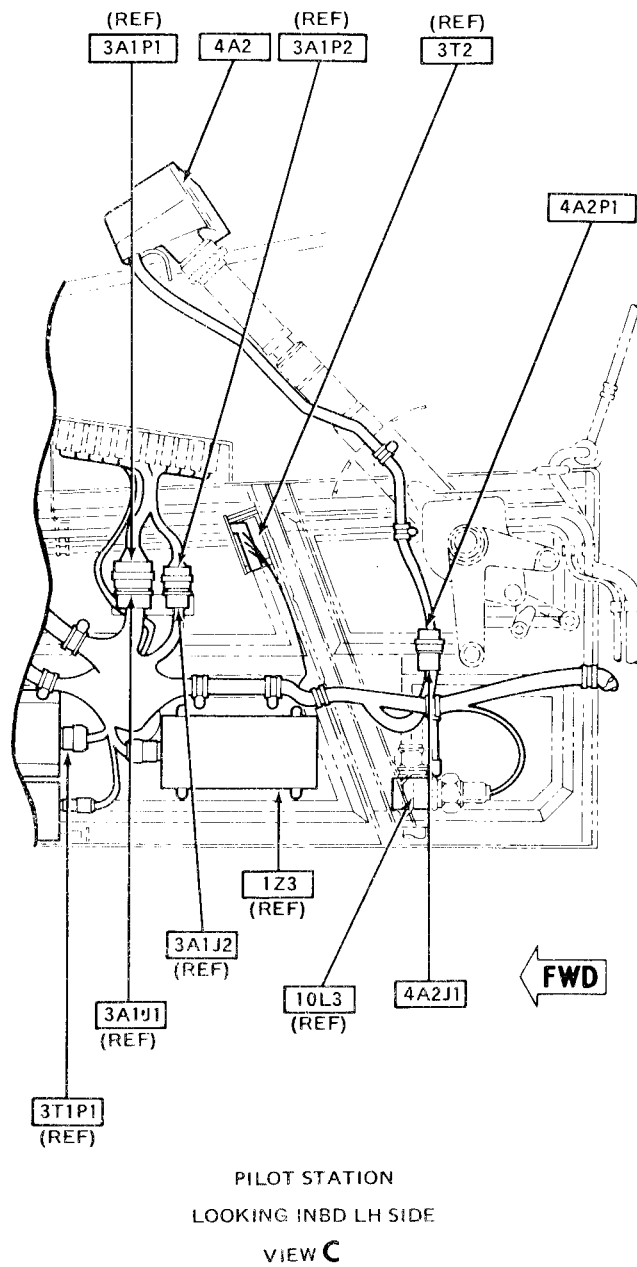


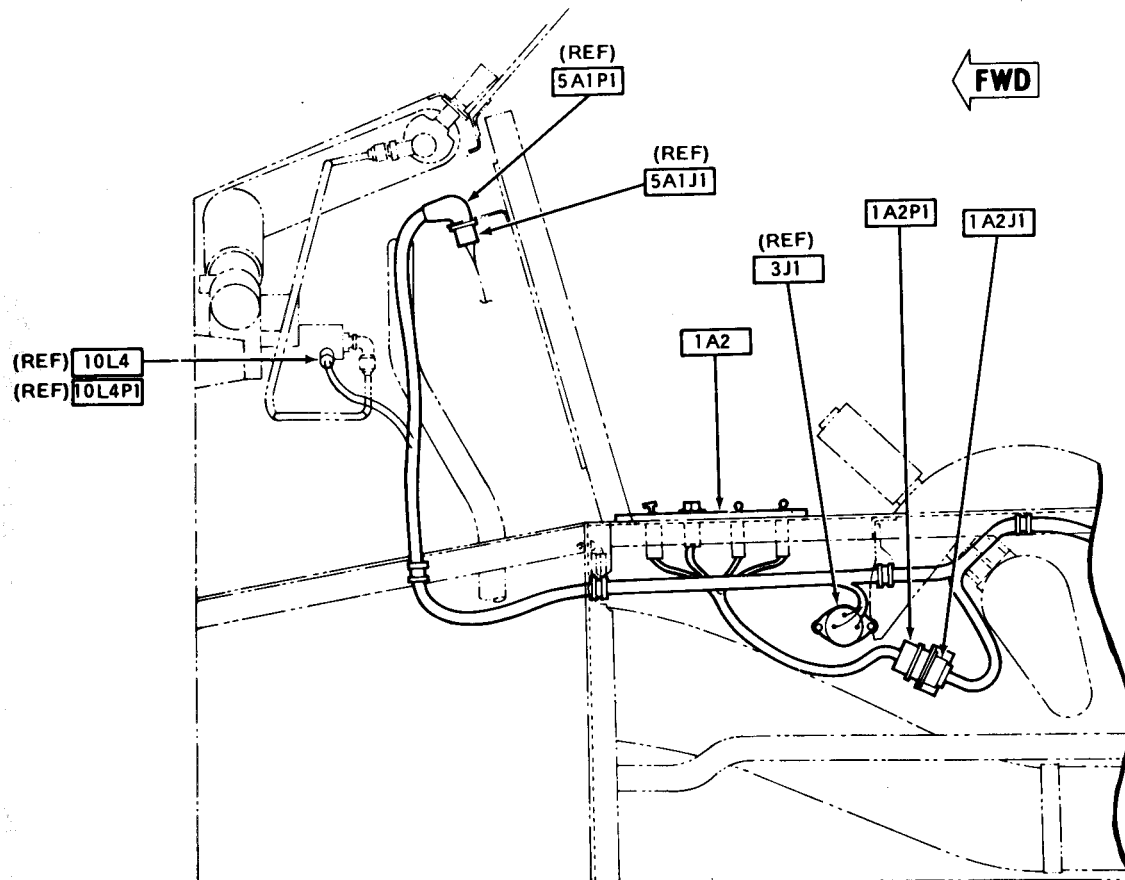
Figure F-65. **M** Idle Stop System (Sheet 4 of 6)

209475-464-3



209475-464-4

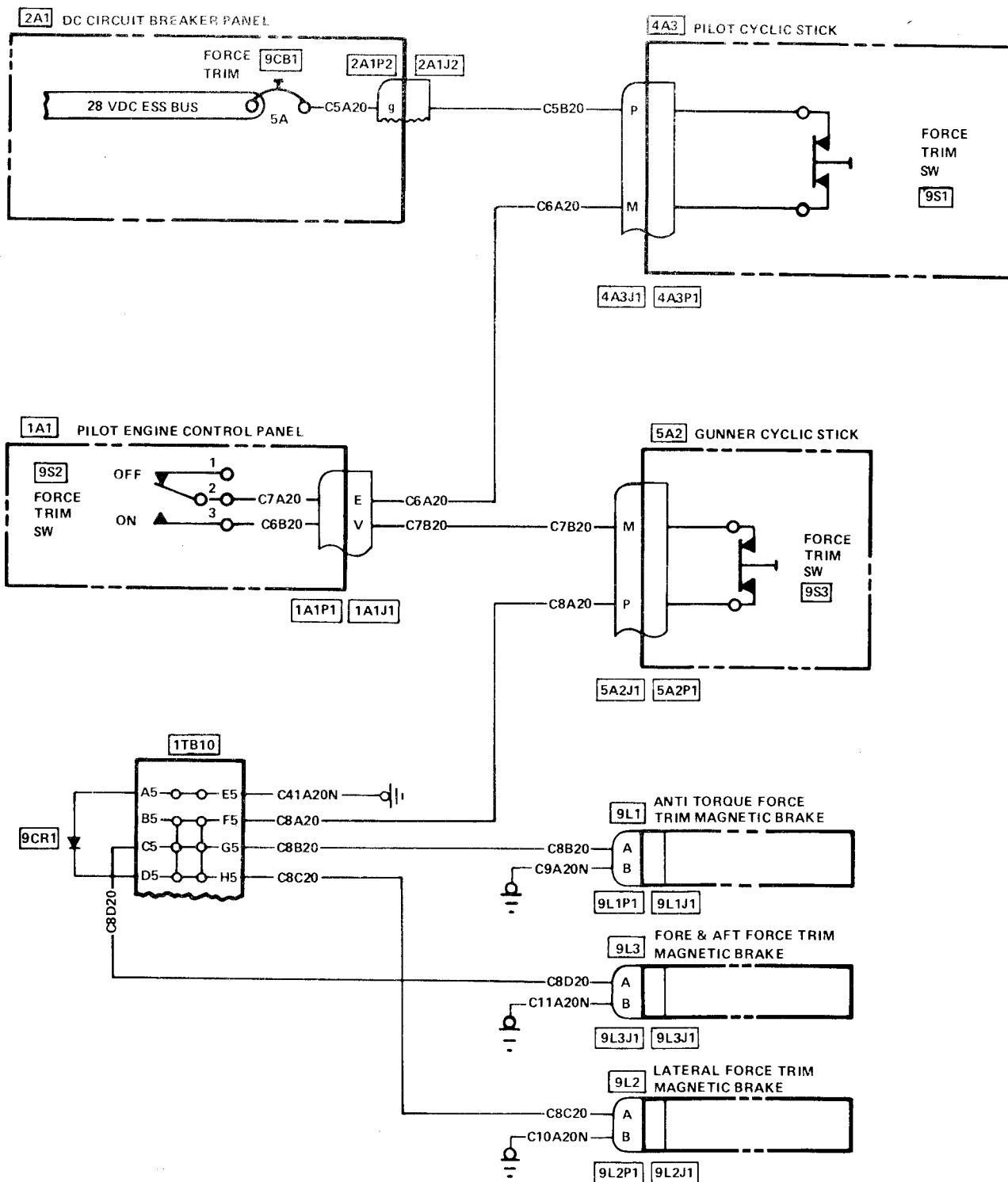
Figure F-65. **M** Idle Stop System (Sheet 5 of 6)



GUNNER STATION
LOOKING INBD LH SIDE
VIEW **D**

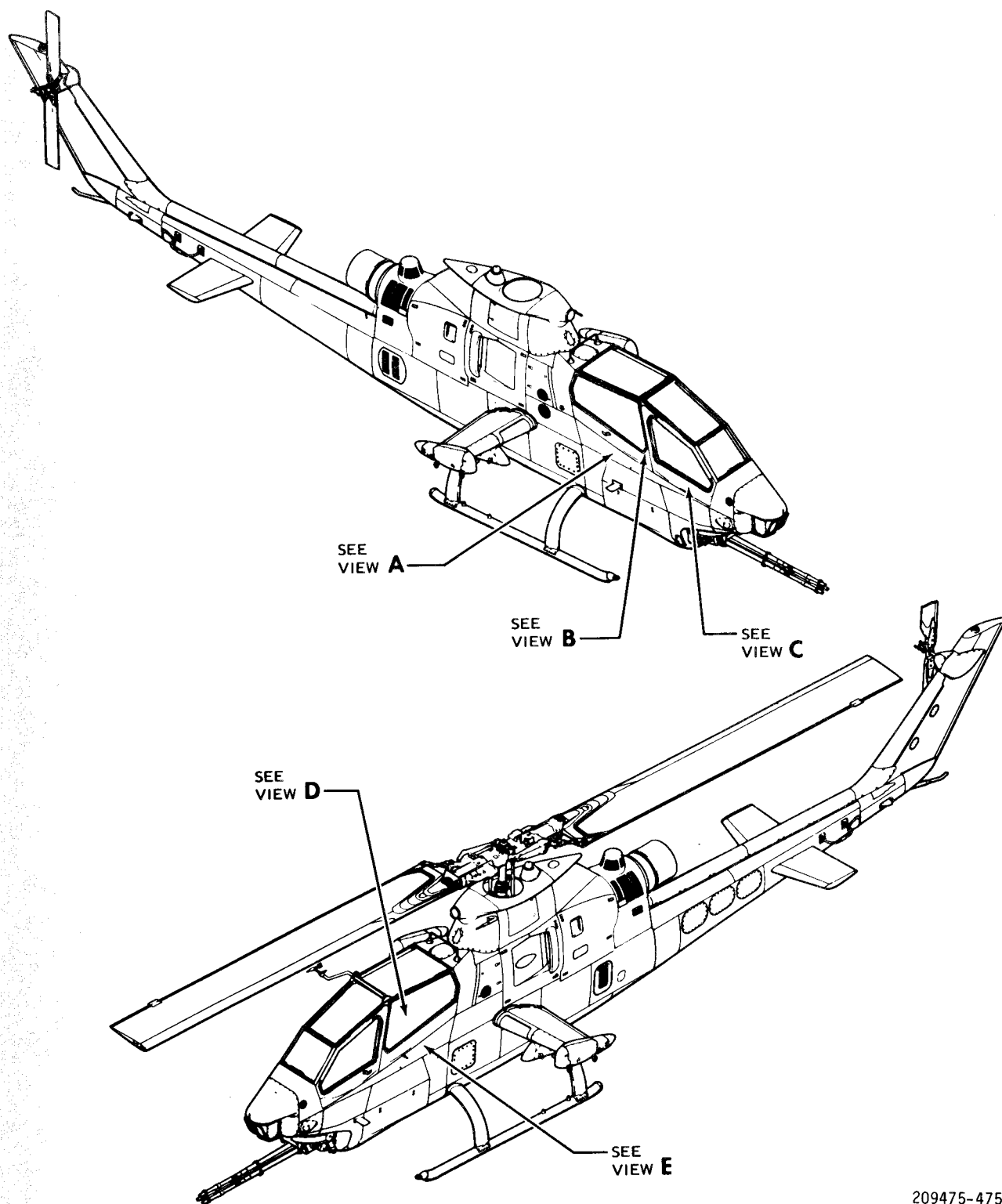
209475-464-5

Figure F-65. **M** Idle Stop System (Sheet 6 of 6)



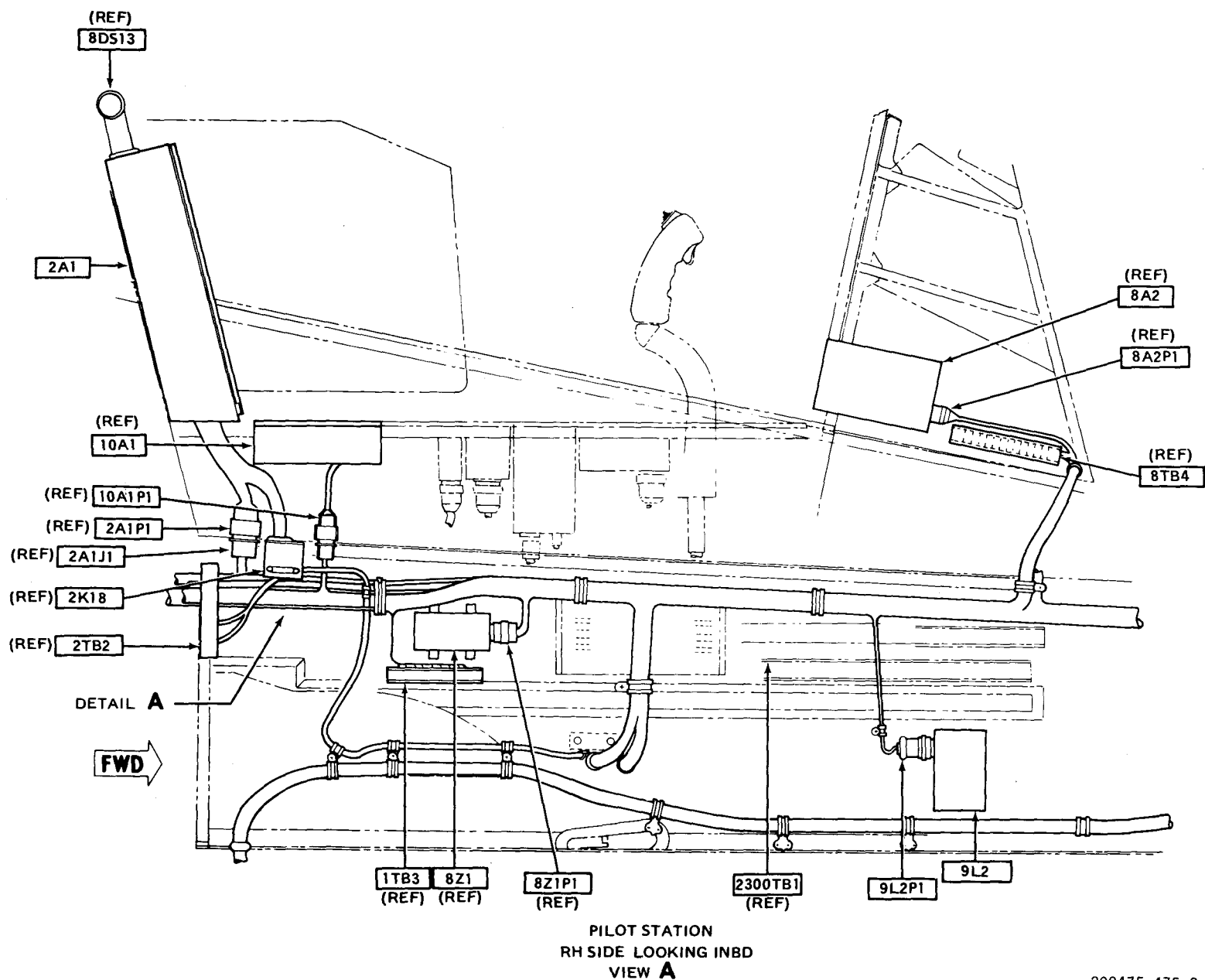
209475-496

Figure F-66. **M** Force Trim System (Sheet 1 of 8)



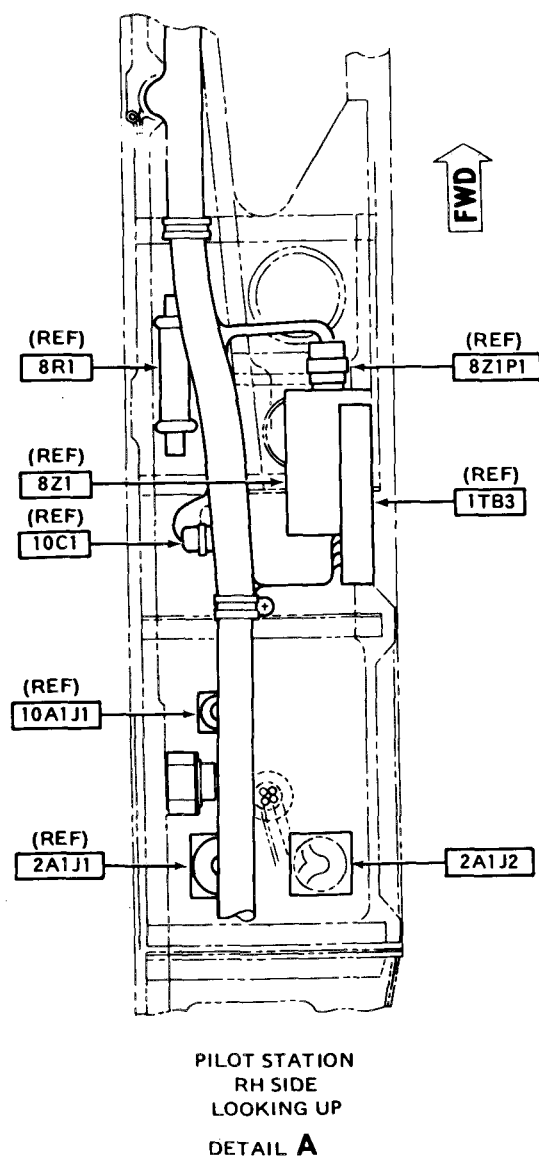
209475-475-1

Figure F-66. **M** Force Trim System (Sheet 2 of 8)



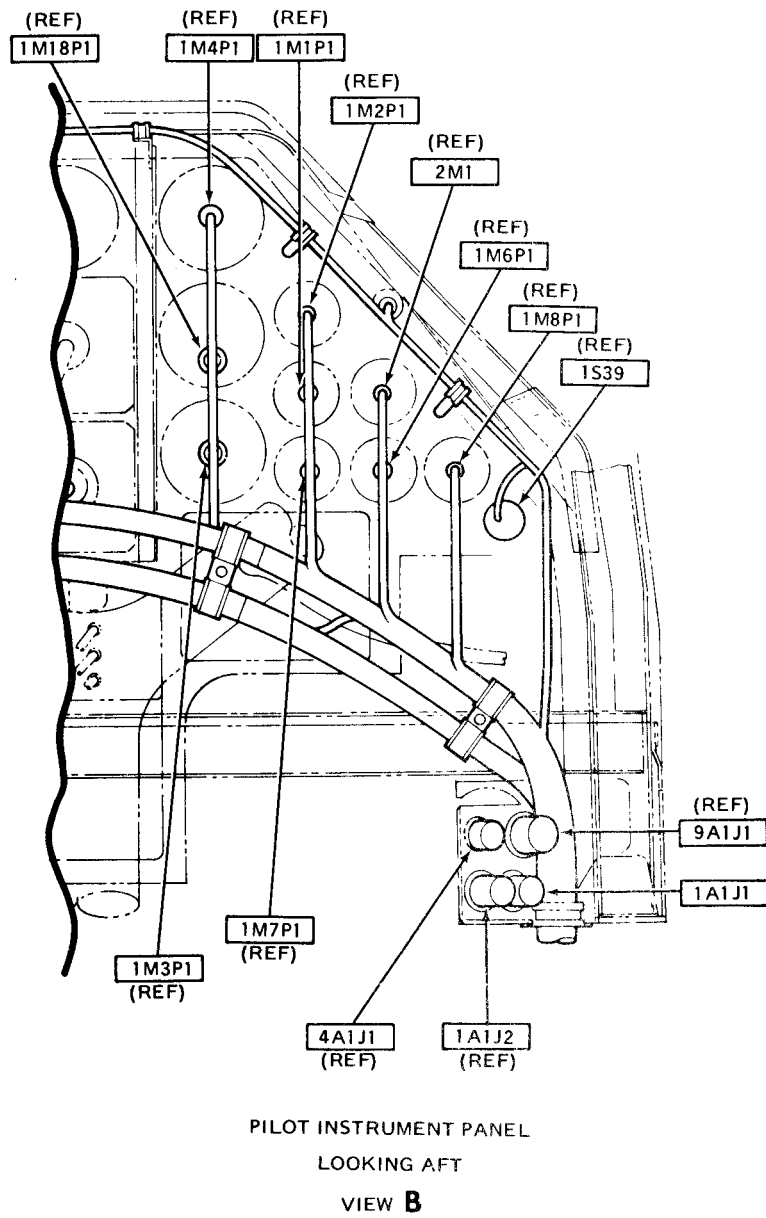
209475-475-2

Figure F-66. **M** Force Trim System (Sheet 3 of 8)



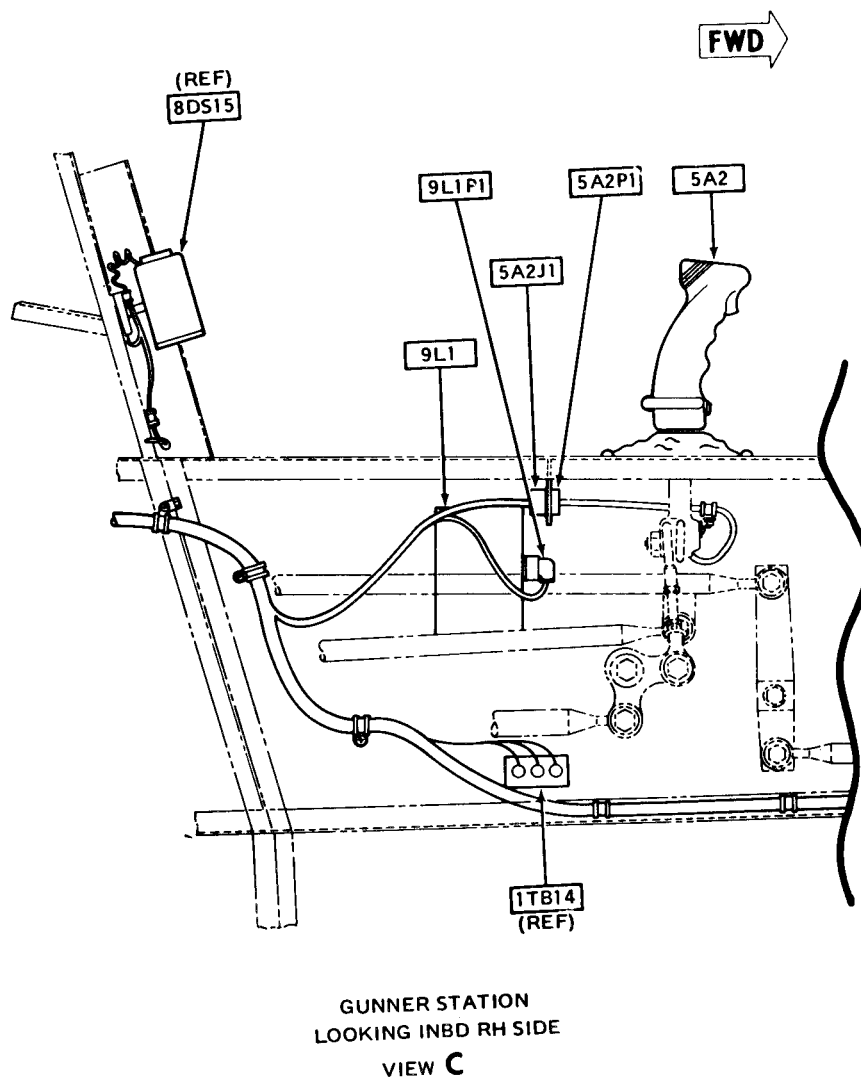
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Figure F-66. **M** Force Trim System (Sheet 4 of 8)



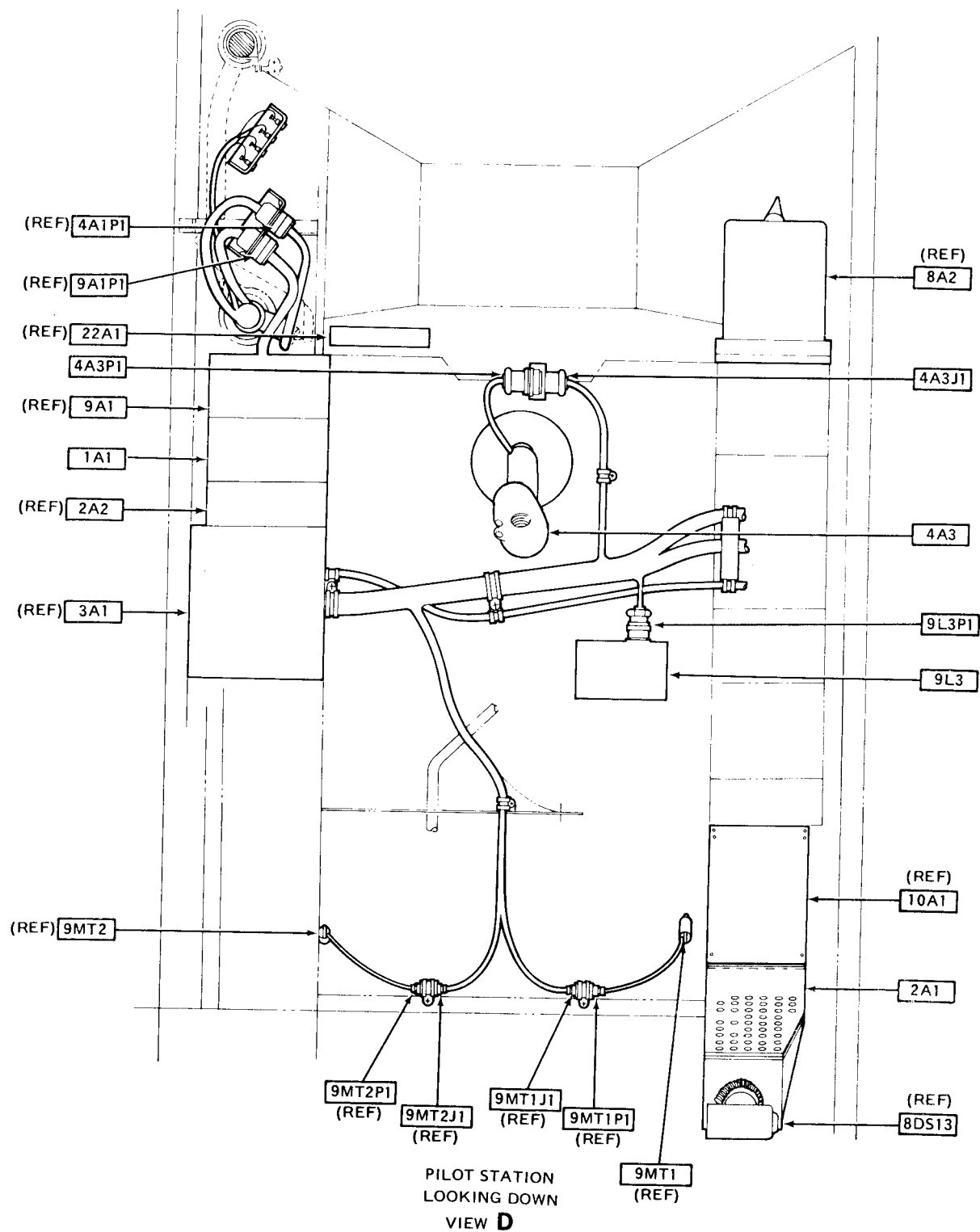
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Figure F-66. **M** Force Trim System (Sheet 5 of 8)



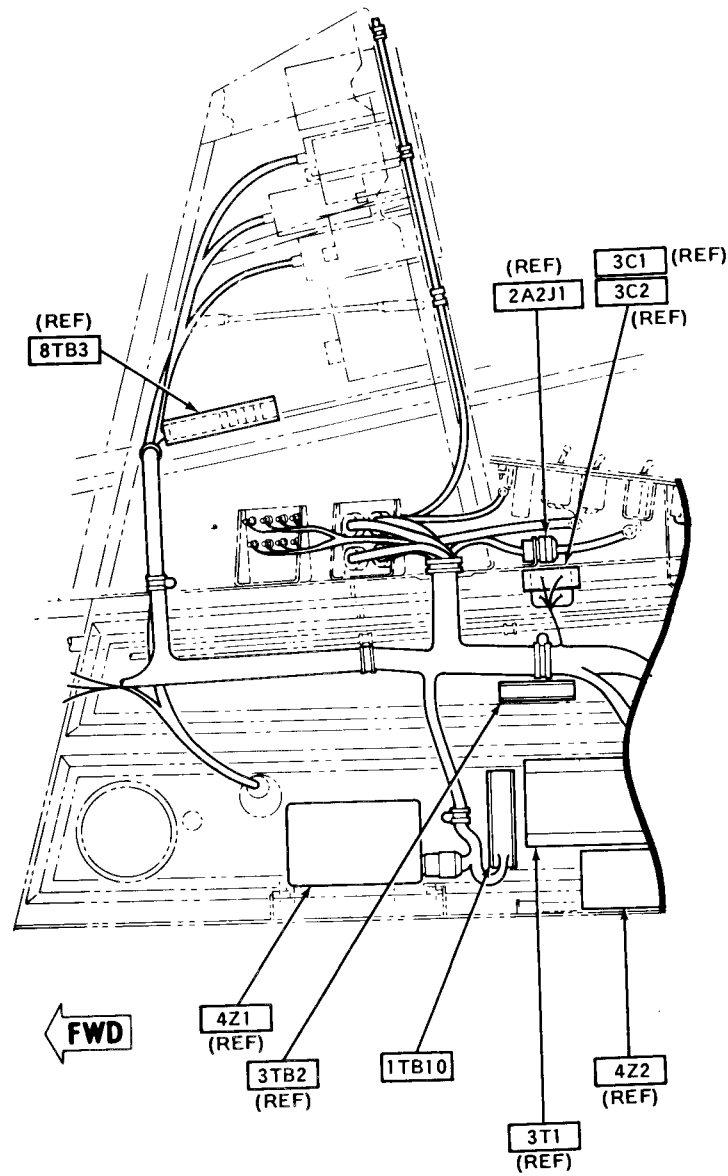
209475-475-5

Figure F-66. **M** Force Trim System (Sheet 6 of 8)



209475-475-6

Figure F-66. ^M Force Trim System (Sheet 7 of 8)



PILOT STATION
LOOKING INBD LH SIDE
VIEW E

209475-475-7

Figure F-66 **M** | Force Trim System (Sheet 8 of 8)

F-329/(F-330 blank)

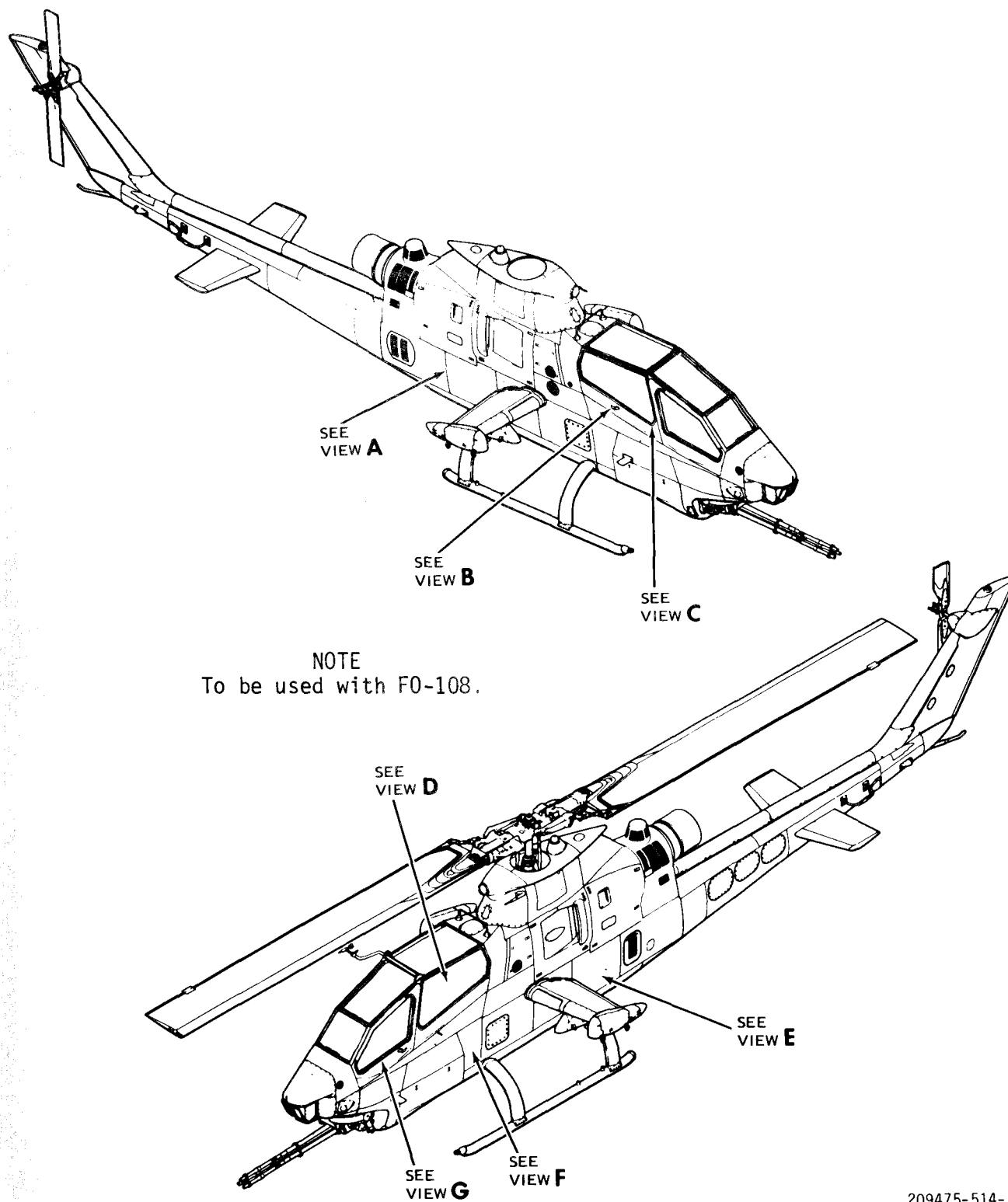
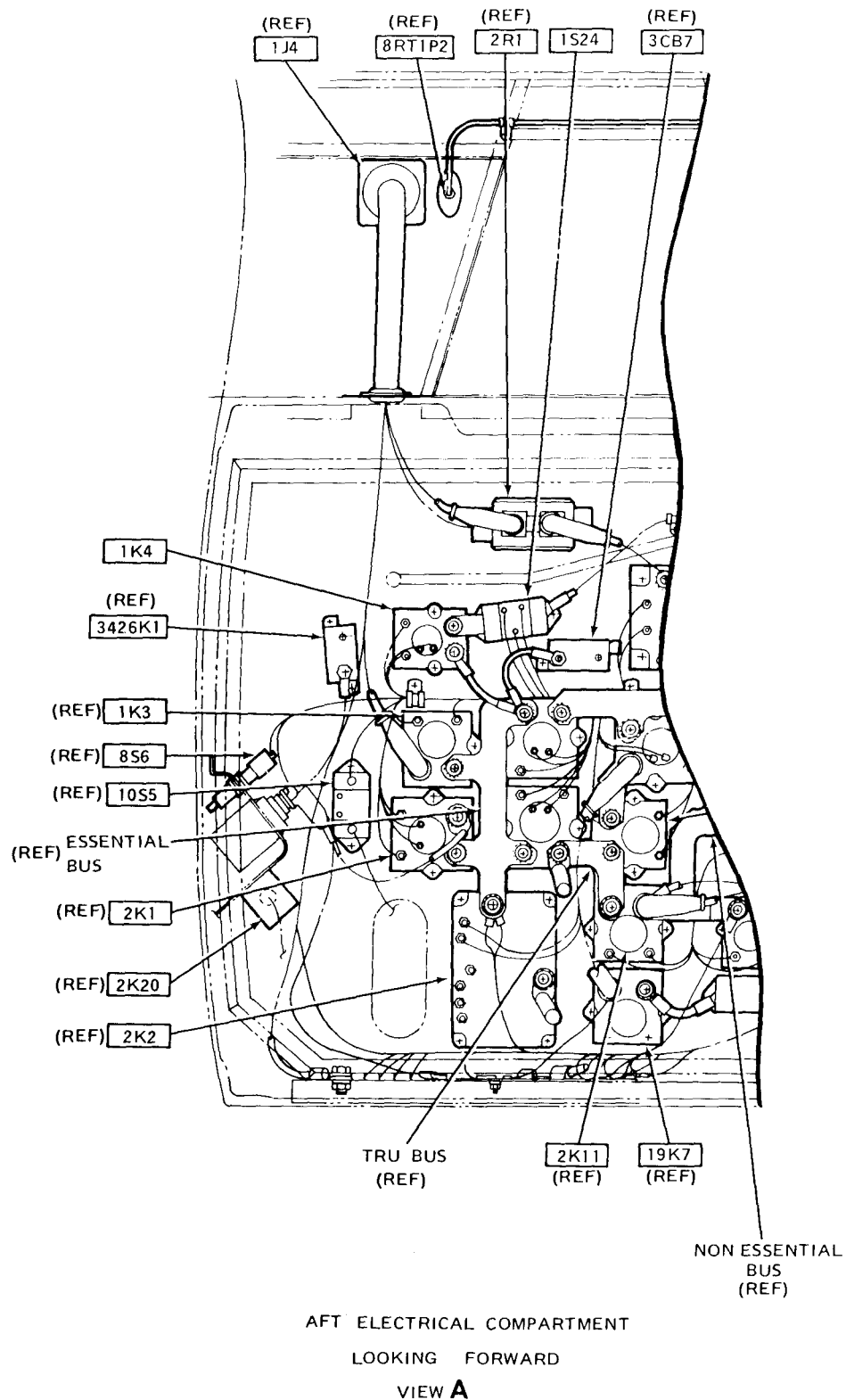
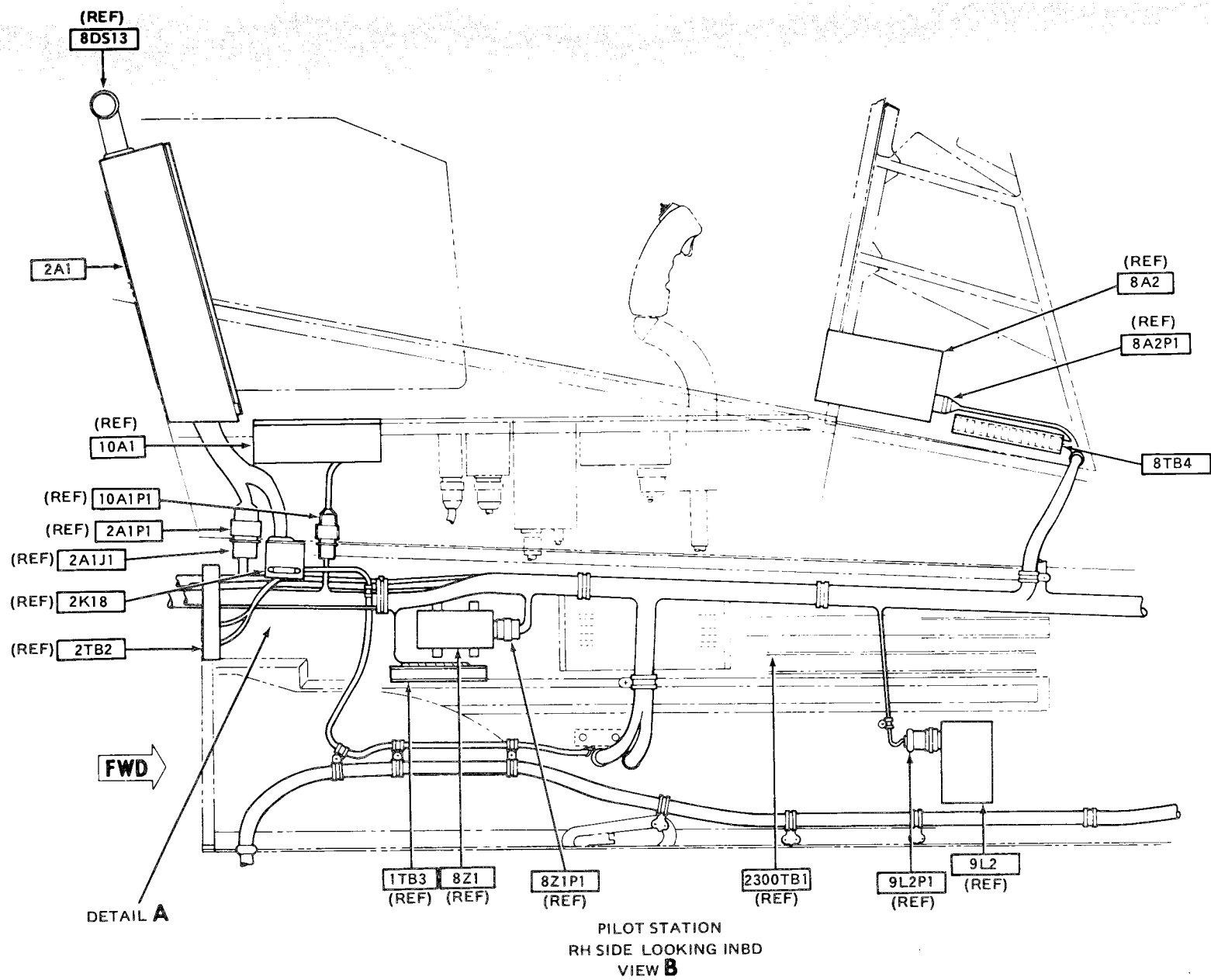


Figure F-67. **M** Hydraulic Control System (Equipment Location) (Sheet 1 of 10)



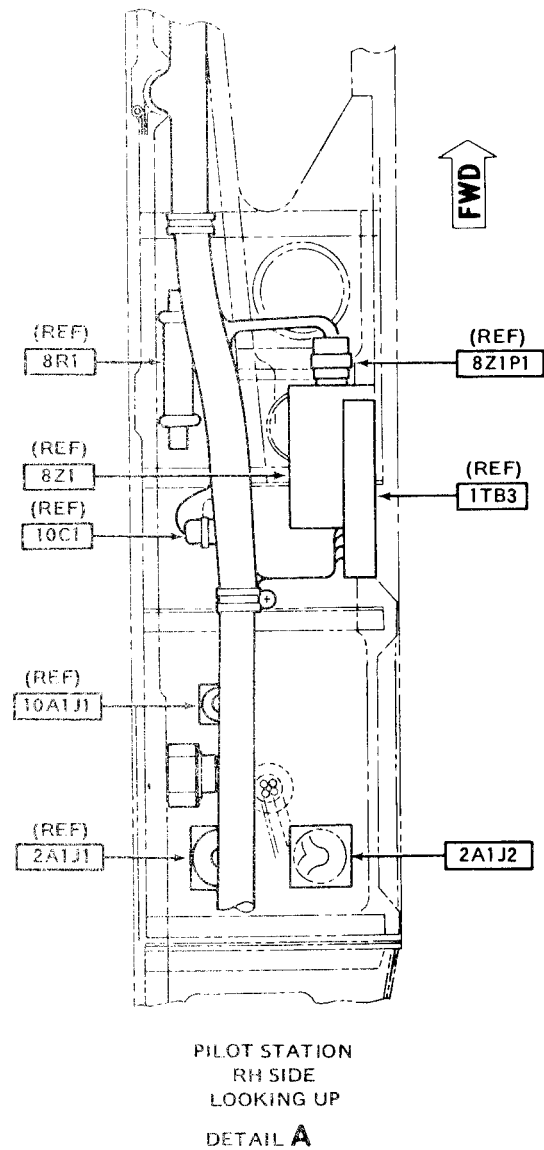
209475-514-2

Figure F-67. **M** Hydraulic Control System (Equipment Location) (Sheet 2 of 10)



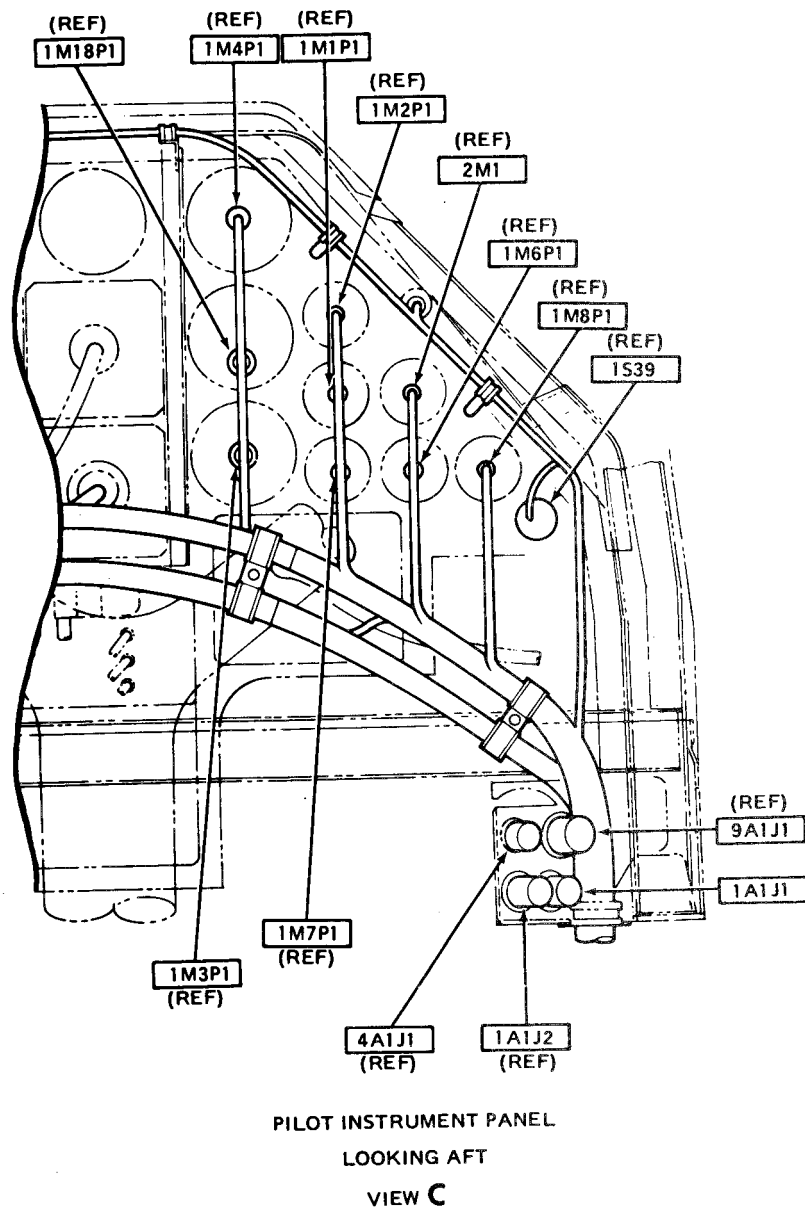
209475-514-3

Figure F-67. **M** Hydraulic Control System (Equipment Location) (Sheet 3 of 10)



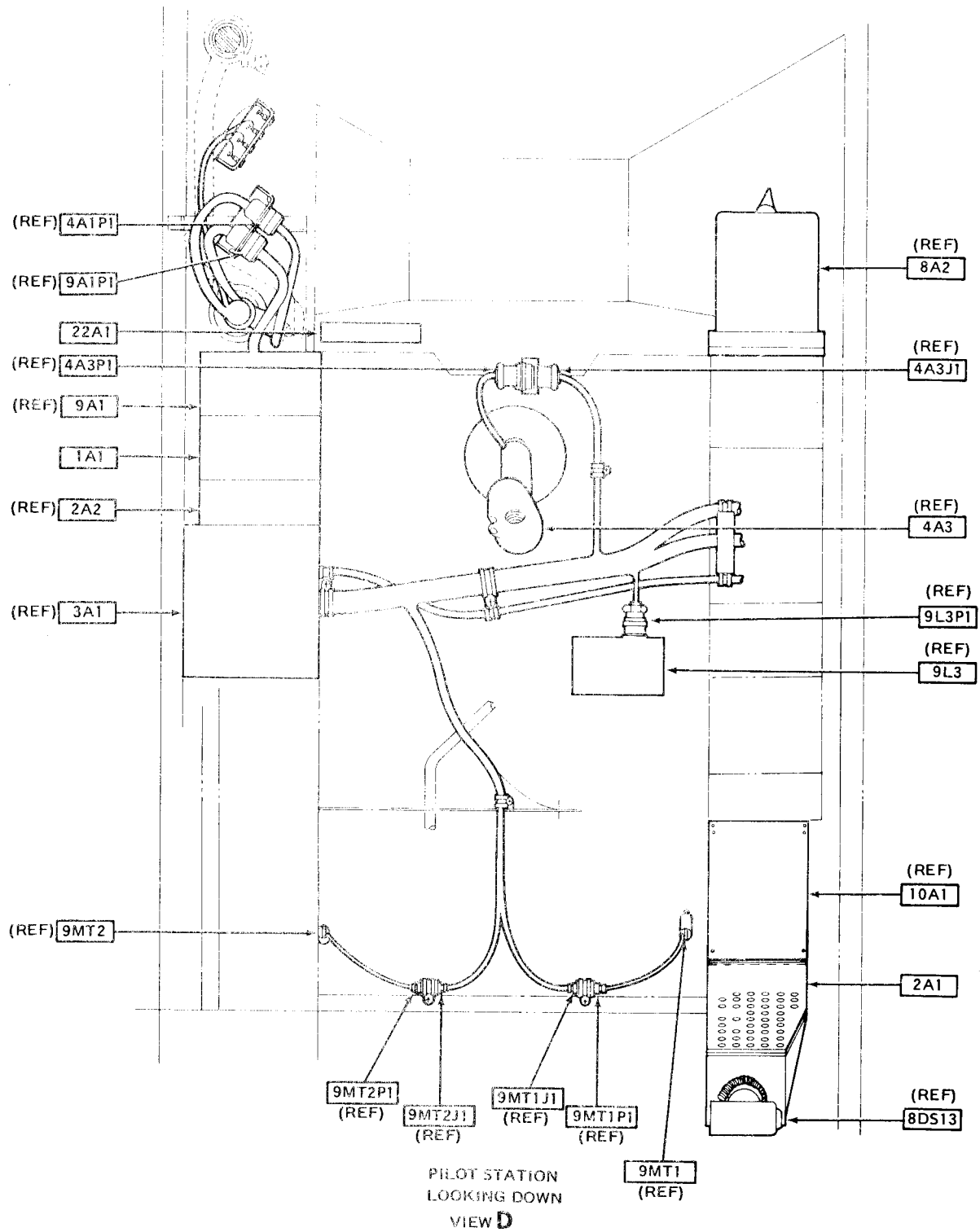
209475-514-4

Figure F-67.  Hydraulic Control System (Equipment Location) (Sheet 4 of 10)



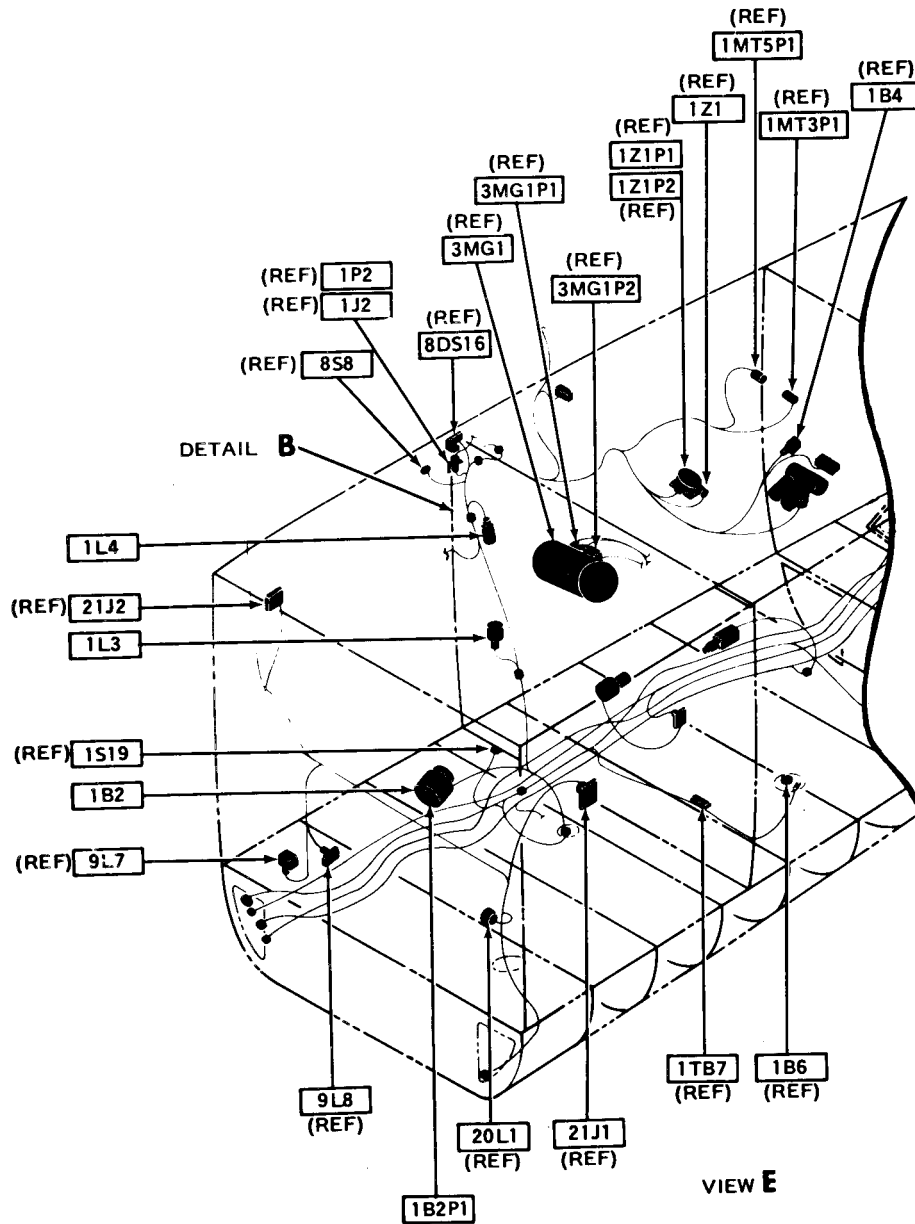
209475-514-5

Figure F-67. **M** Hydraulic Control System (Equipment Location) (Sheet 5 of 10)



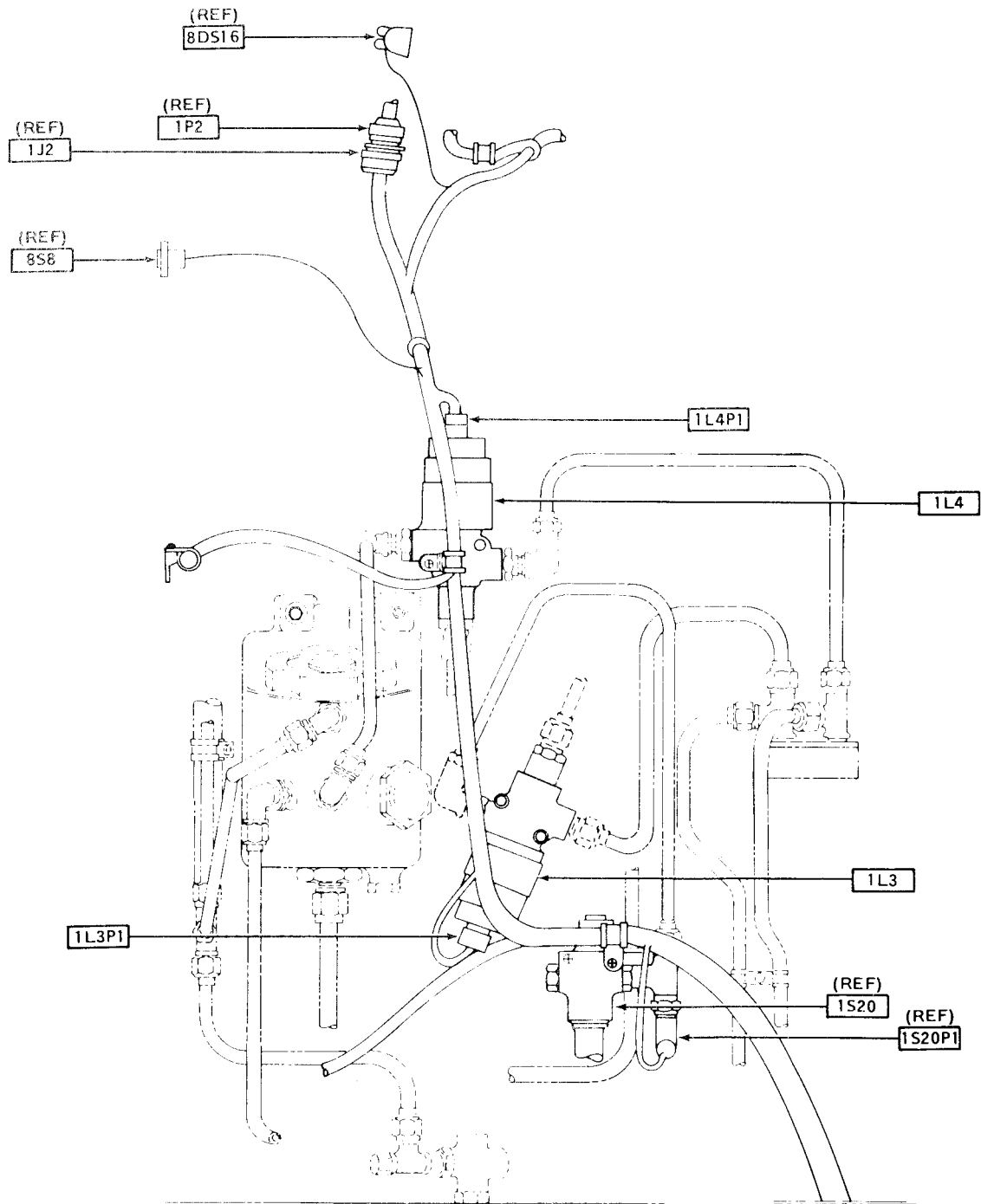
209475-514-6

Figure F-67. **M** Hydraulic Control System (Equipment Location) (Sheet 6 of 10)



209475-514-7

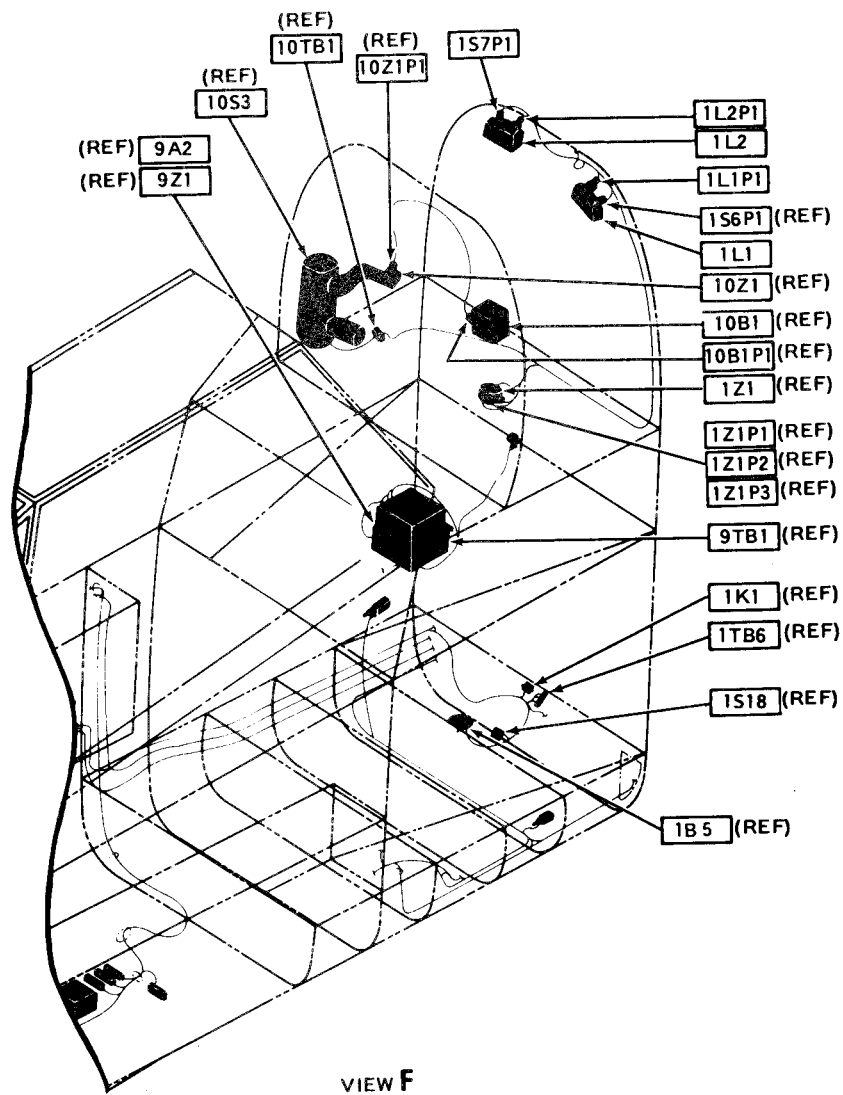
Figure F-67. **M** | Hydraulic Control System (Equipment Location) (Sheet 7 of 10)



STA 213.94
LOOKING AFT
DETAIL B

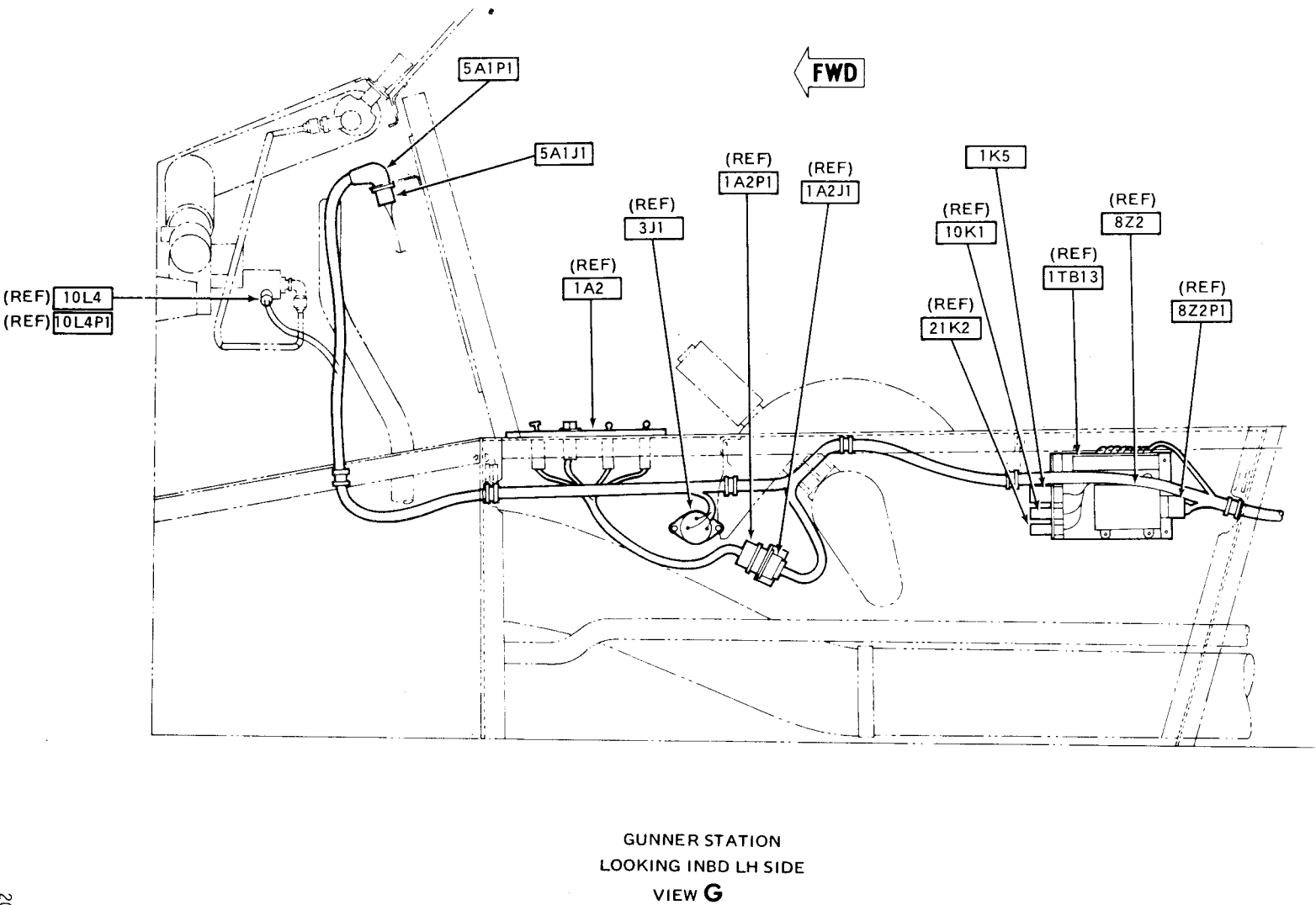
209475-514-8

Figure F-67. **M** Hydraulic Control System (Equipment Location) (Sheet 8 of 10)



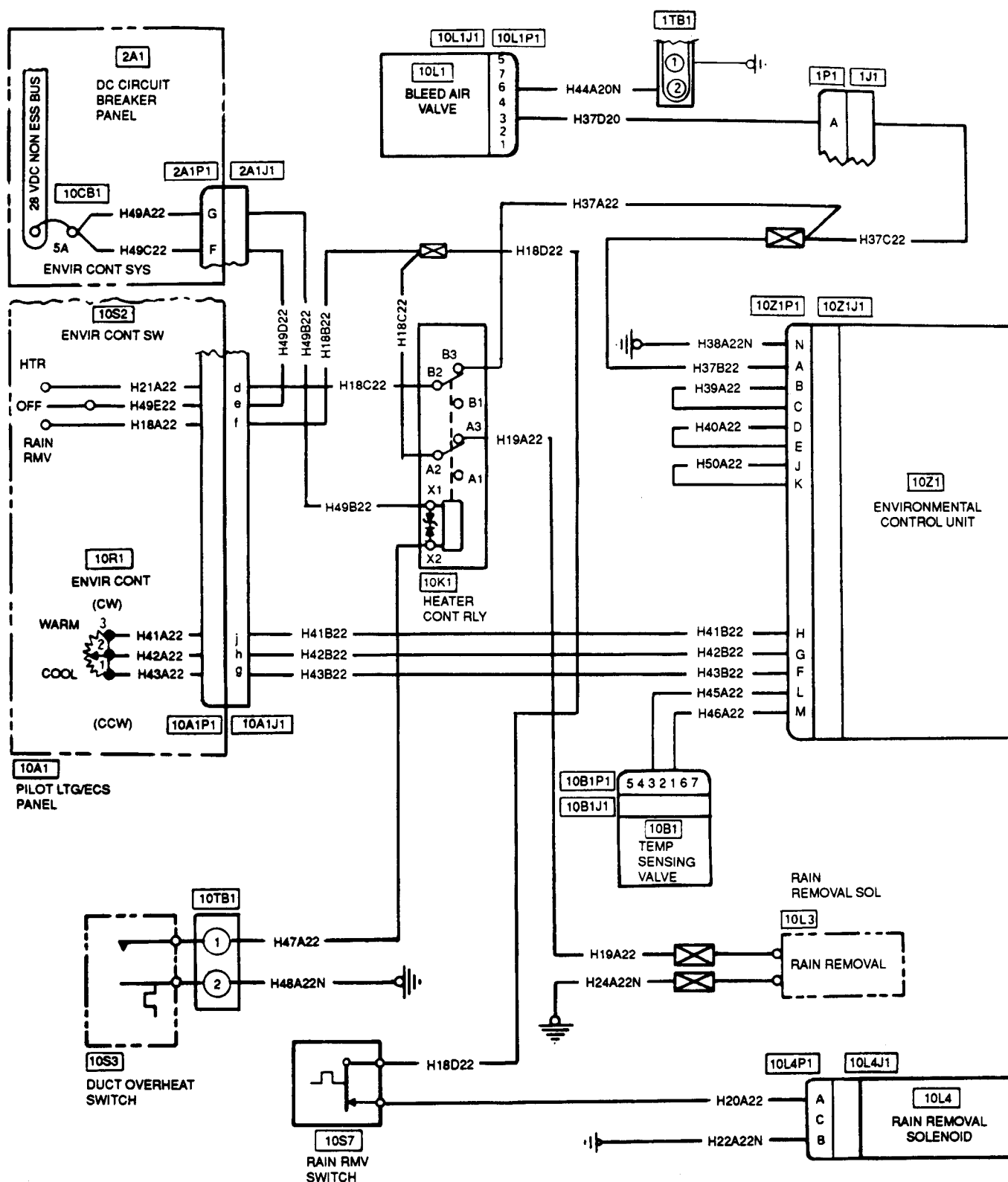
209475-514-9

Figure F-67. **M** Hydraulic Control System (Equipment Location) (Sheet 9 of 10)



209475-514-10

Figure F-67. **M** Hydraulic Control System (Equipment Location) (Sheet 10 of 10)



209475-492

Figure F-68. **M** Environmental Control System (Sheet 1 of 9)

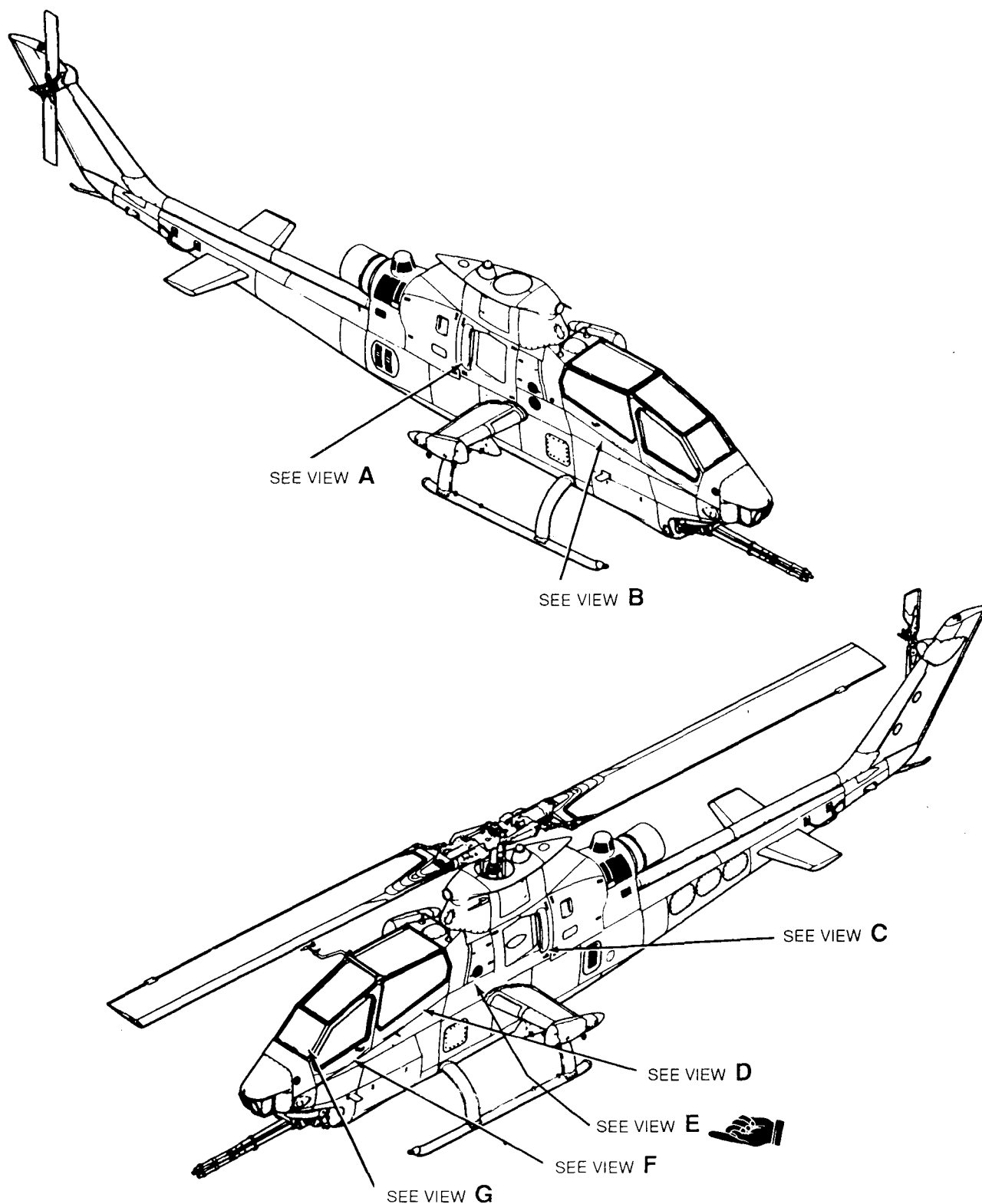


Figure F-68.



Environmental Control System (Sheet 2 of 9)

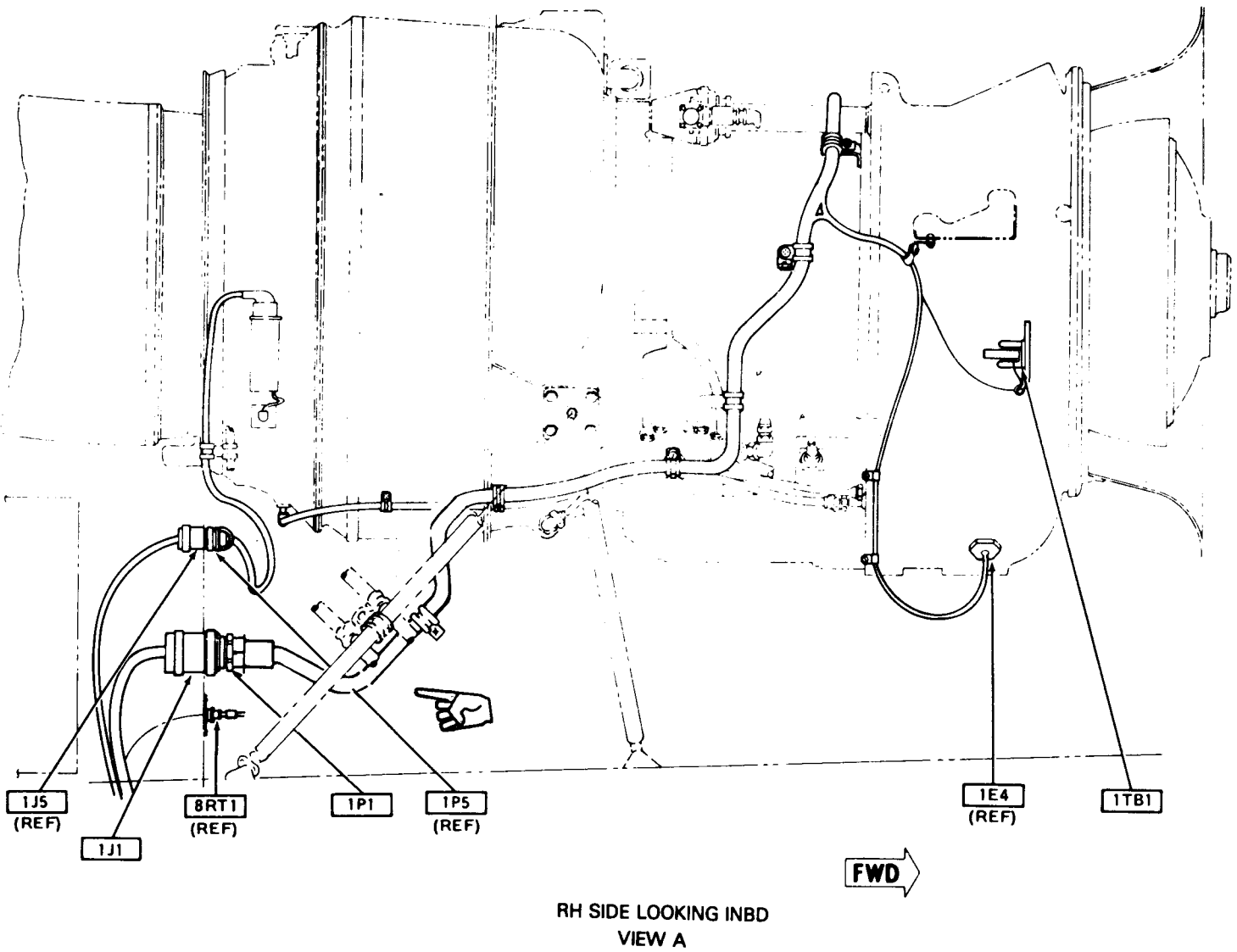


Figure F-68. **M**

Environmental Control System (Sheet 3 of 9)

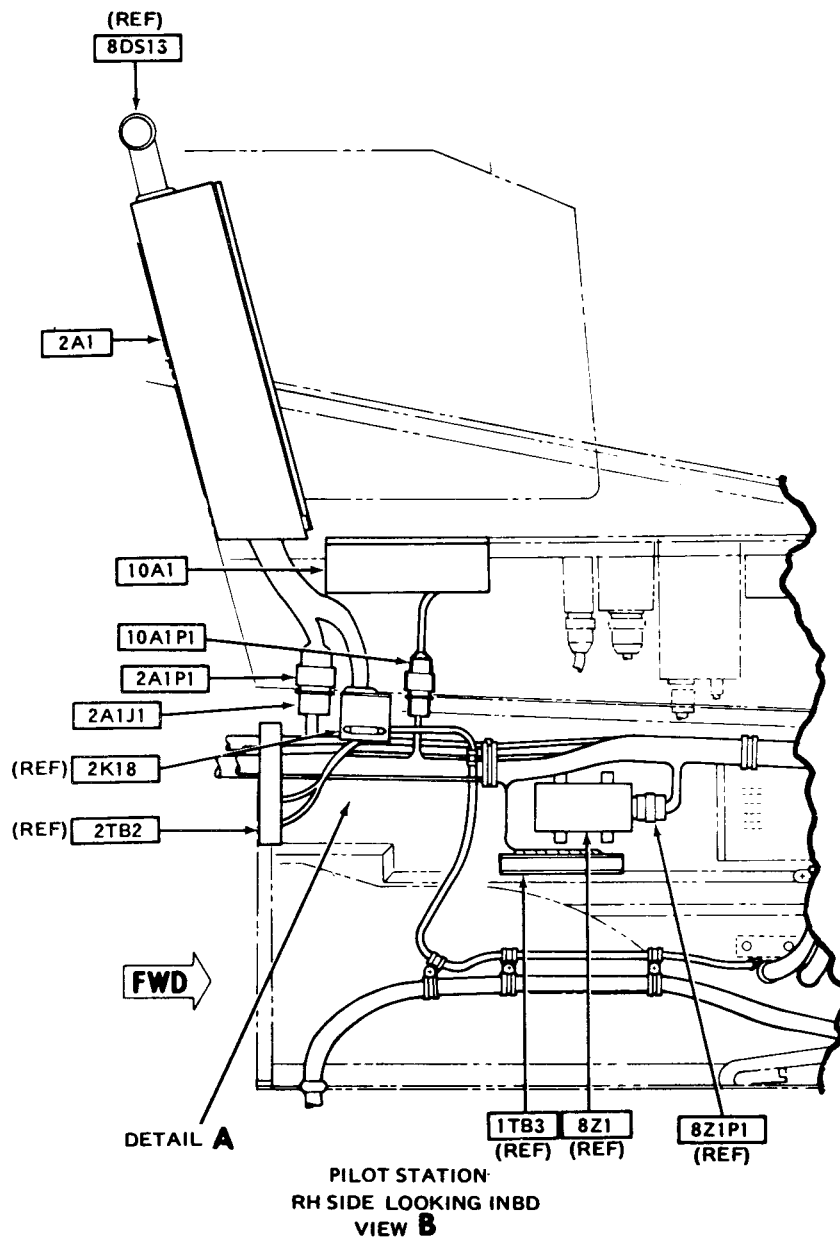
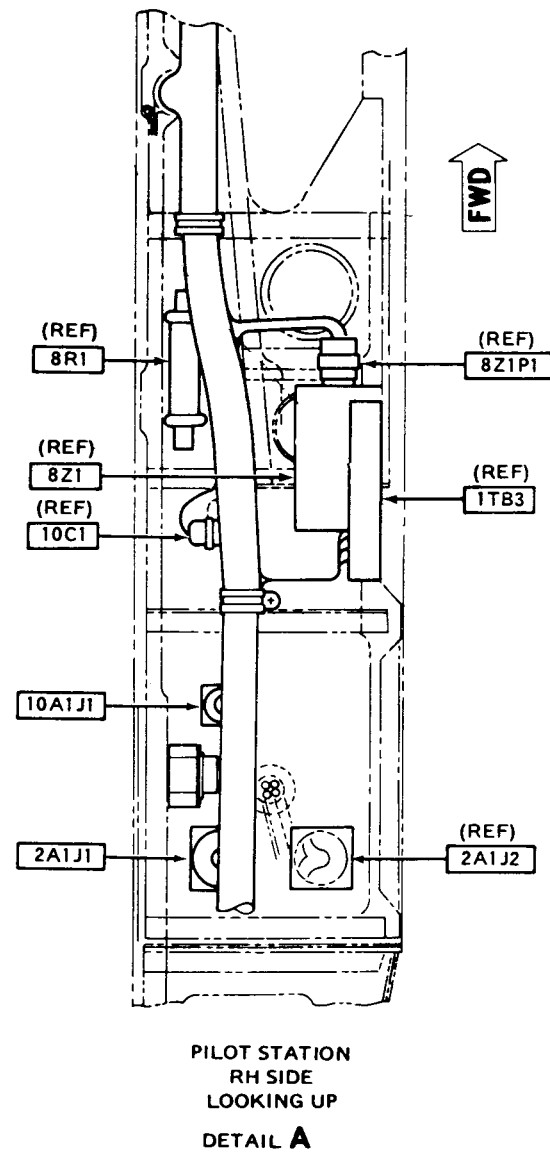
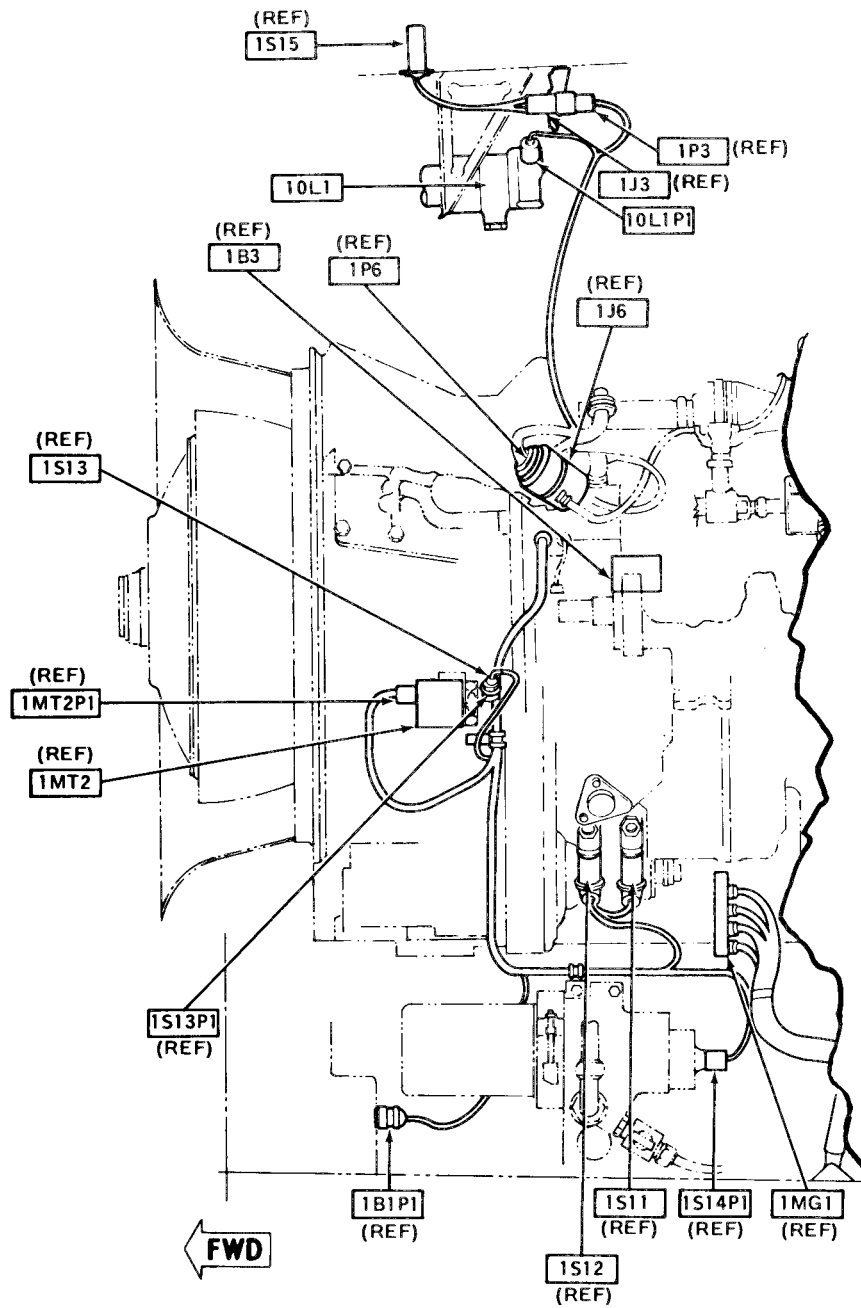


Figure F-68. **M** Environmental Control System (Sheet 4 of 9)

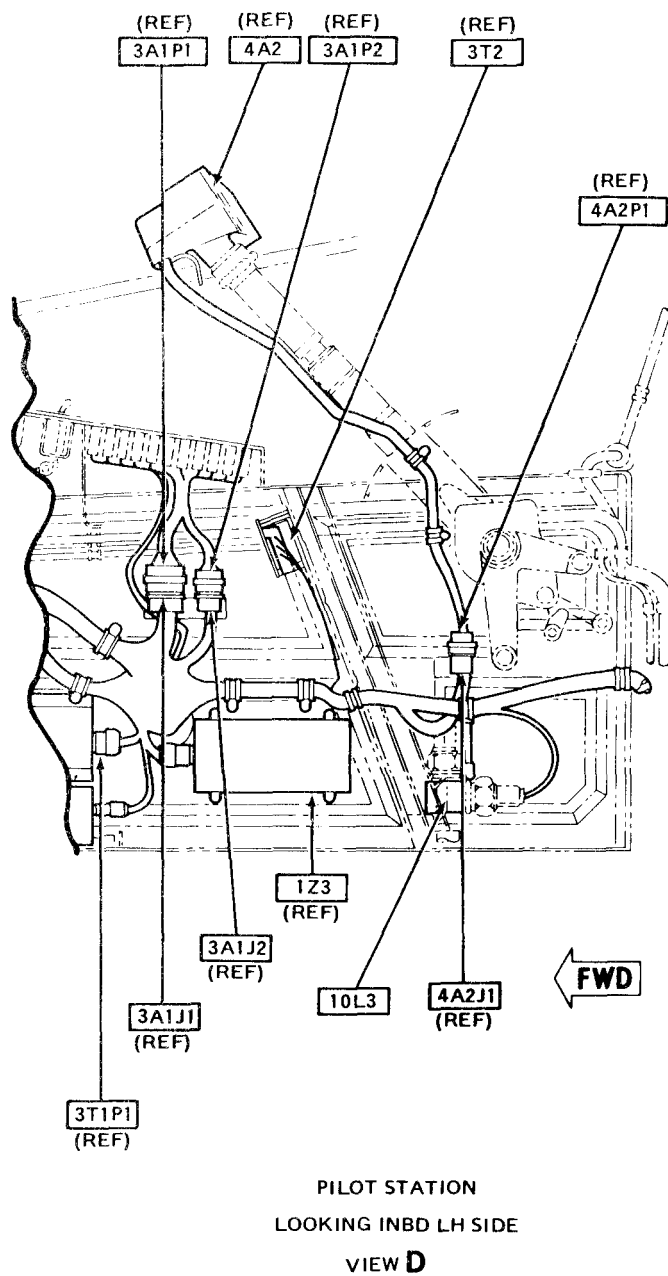
209475-479-3



LH SIDE LOOKING INBD
VIEW C

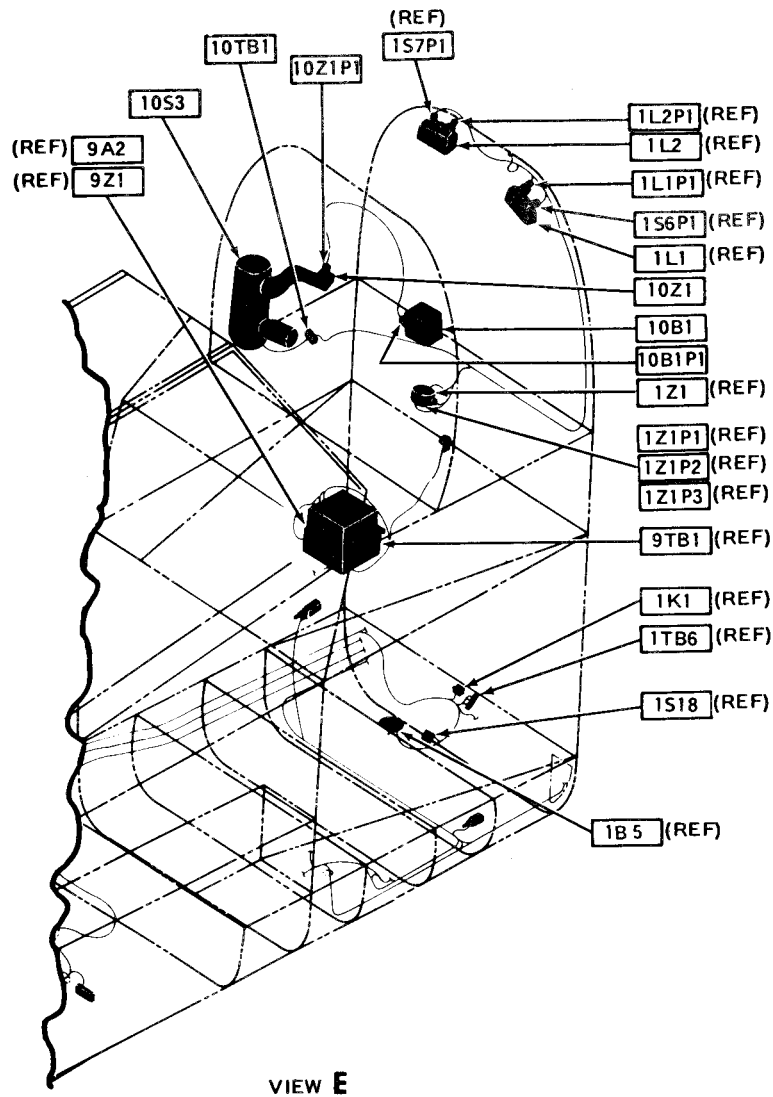
209475-479-4

Figure F-68. **M** Environmental Control System (Sheet 5 of 9)



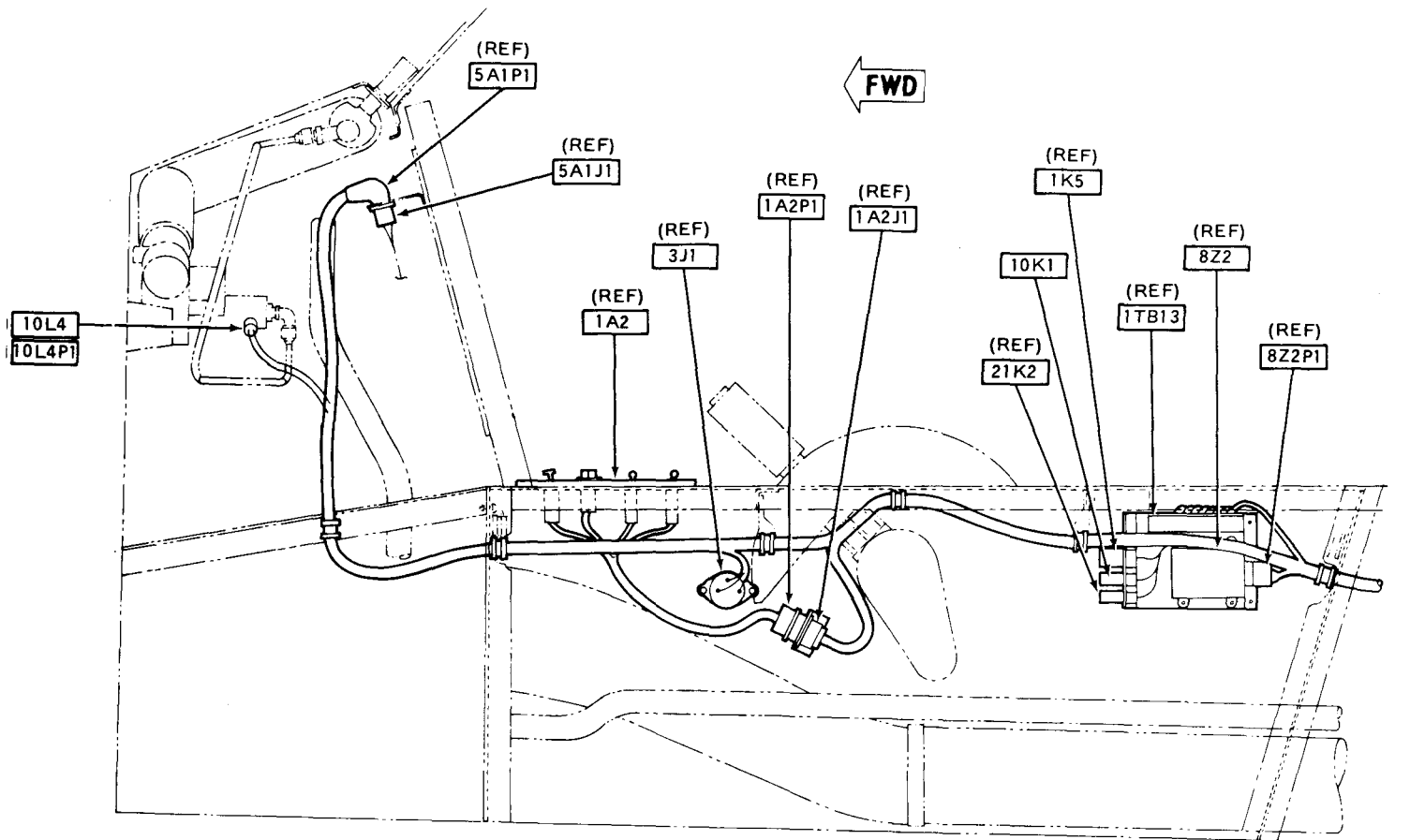
209475-479-5

Figure F-68. **M** Environmental Control System (Sheet 6 of 9)



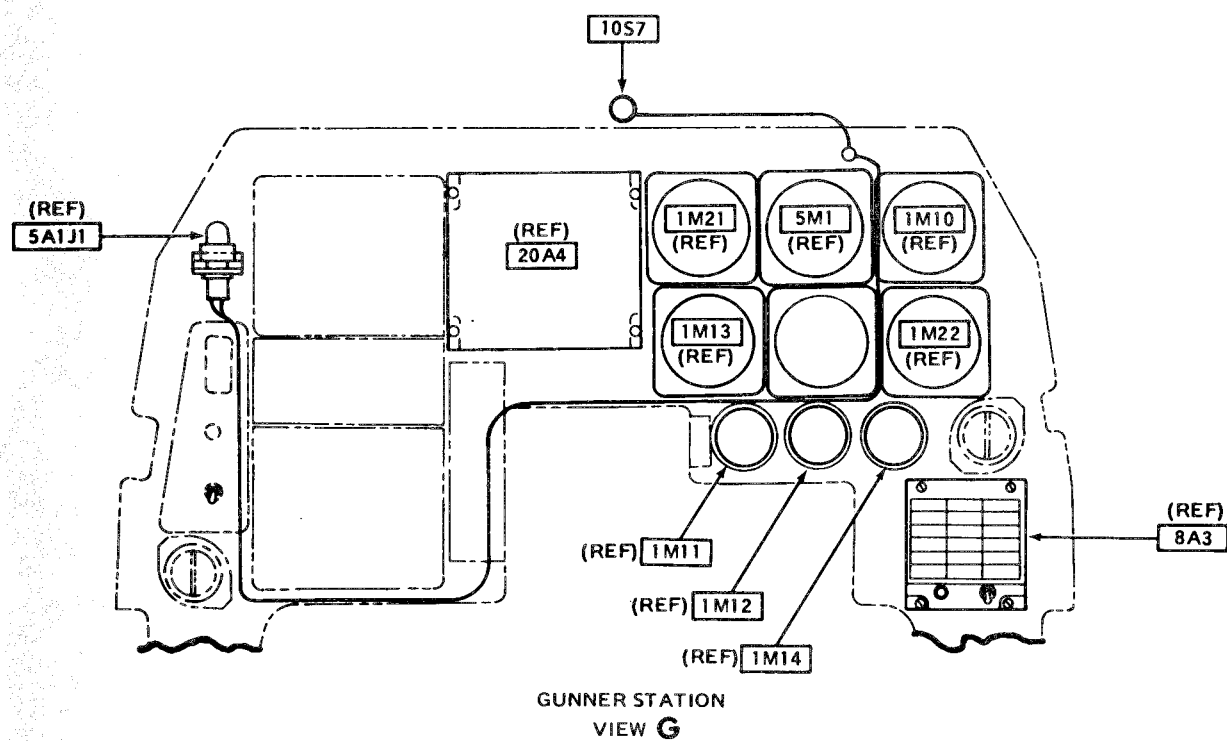
209475-479-6

Figure F-68. **M** Environmental Control System (Sheet 7 of 9)



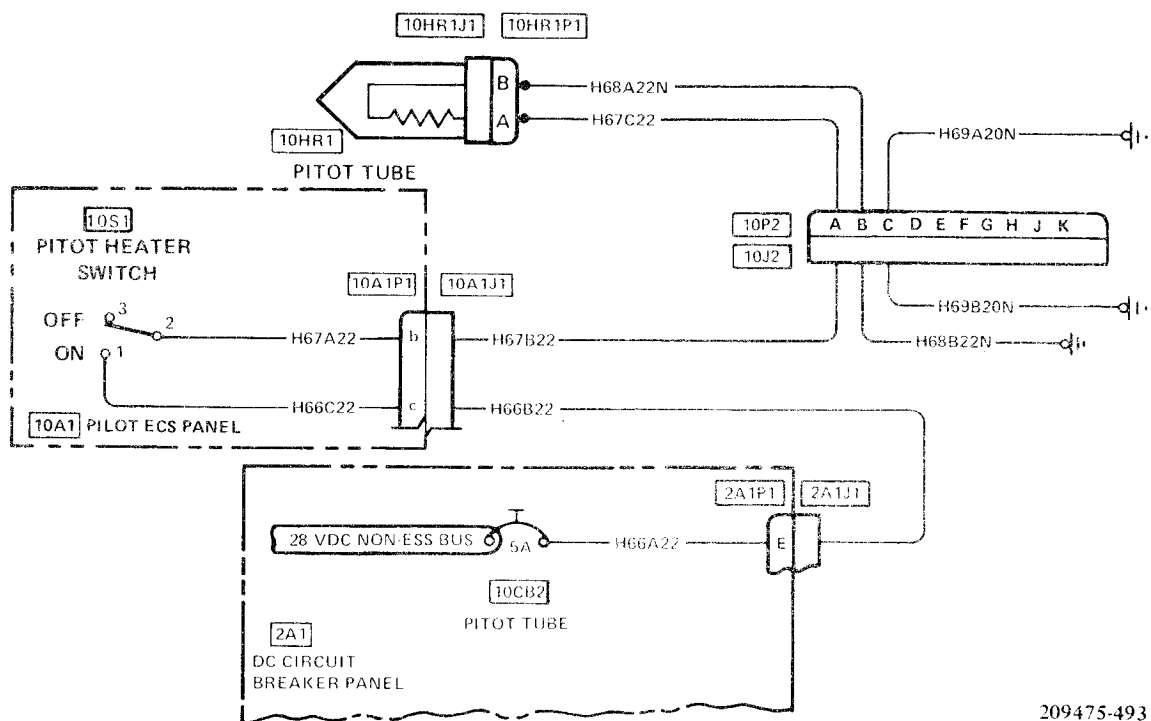
GUNNER STATION
LOOKING INBD LH SIDE
VIEW **F**

Figure F-68. **M** Environmental Control System (Sheet 8 of 9)



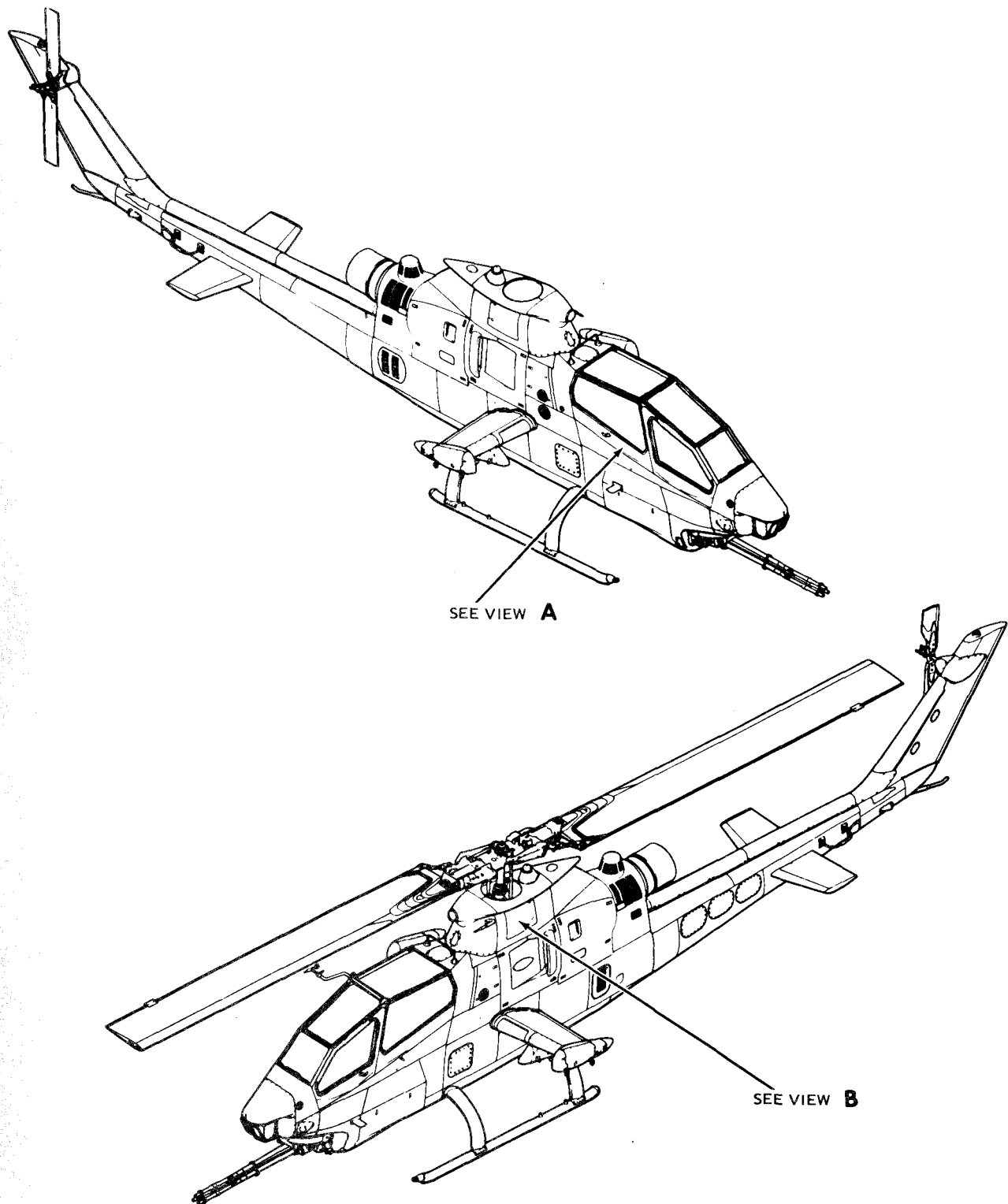
209475-479-8

Figure F-68. **M** Environmental Control System (Sheet 9 of 9)



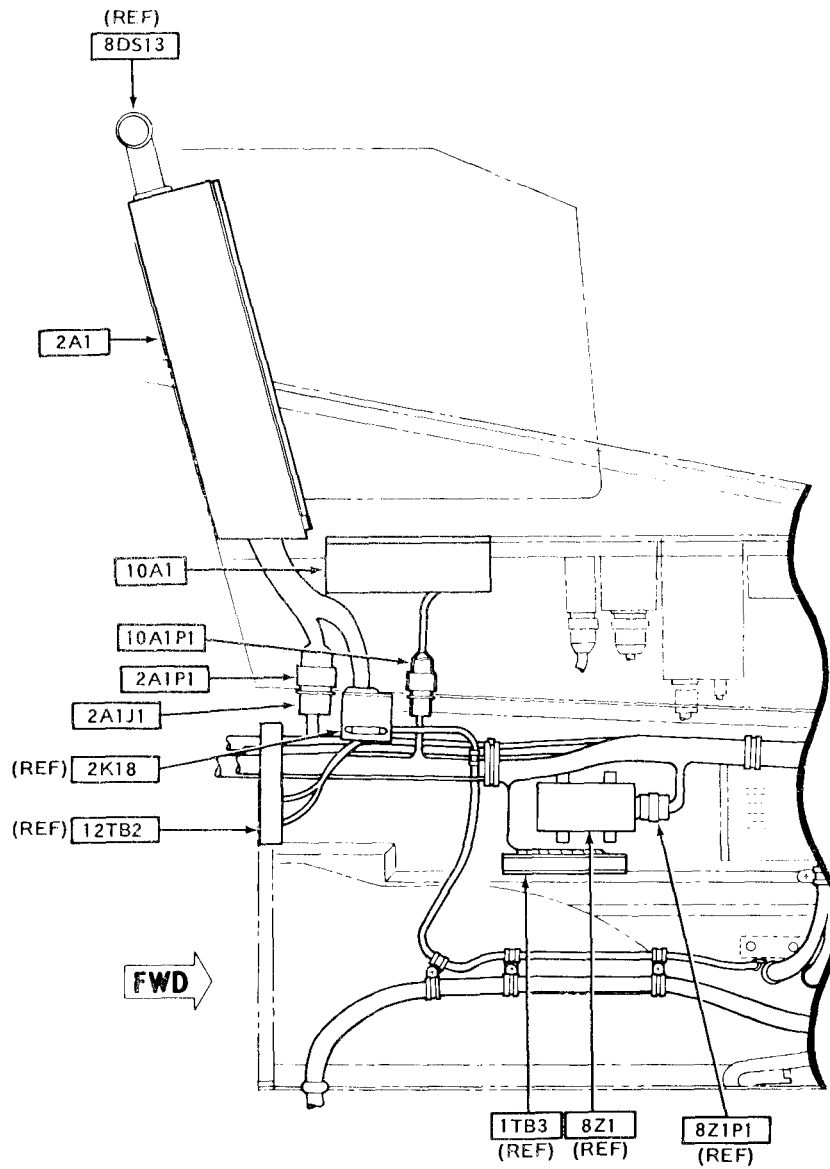
209475-493

Figure F-69. **M** Pitot Heater System (Sheet 1 of 4)



209475-476-1

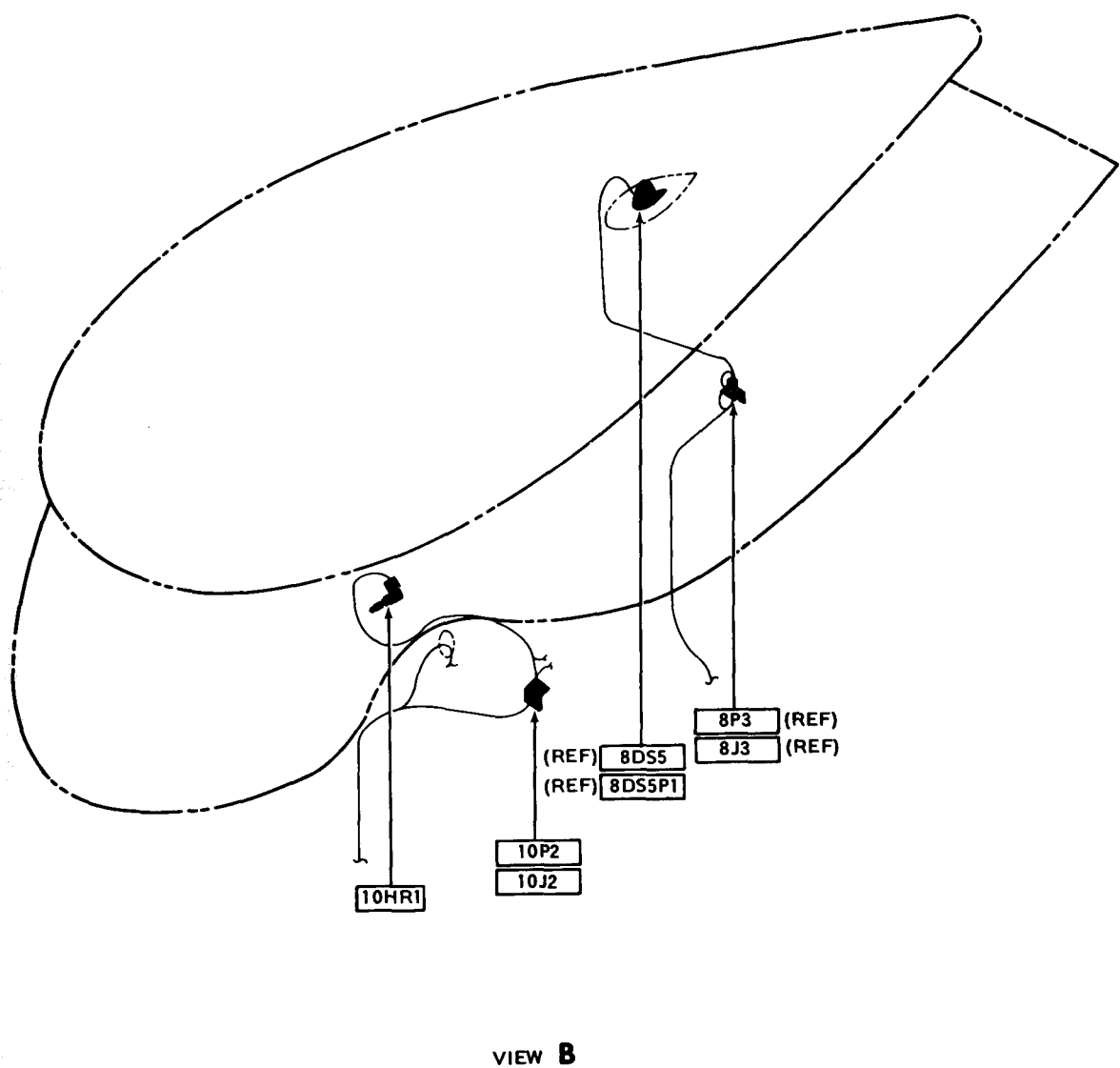
Figure F-69. **M** Pitot Heater System (Sheet 2 of 4)



PILOT STATION
RH SIDE LOOKING INBD
VIEW A

209475-476-2

Figure F-69. **M** Pitot Heater System (Sheet 3 of 4)



209475-476-3

Figure F-69. **M** Pitot Heater System (Sheet 4 of 4)

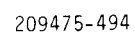
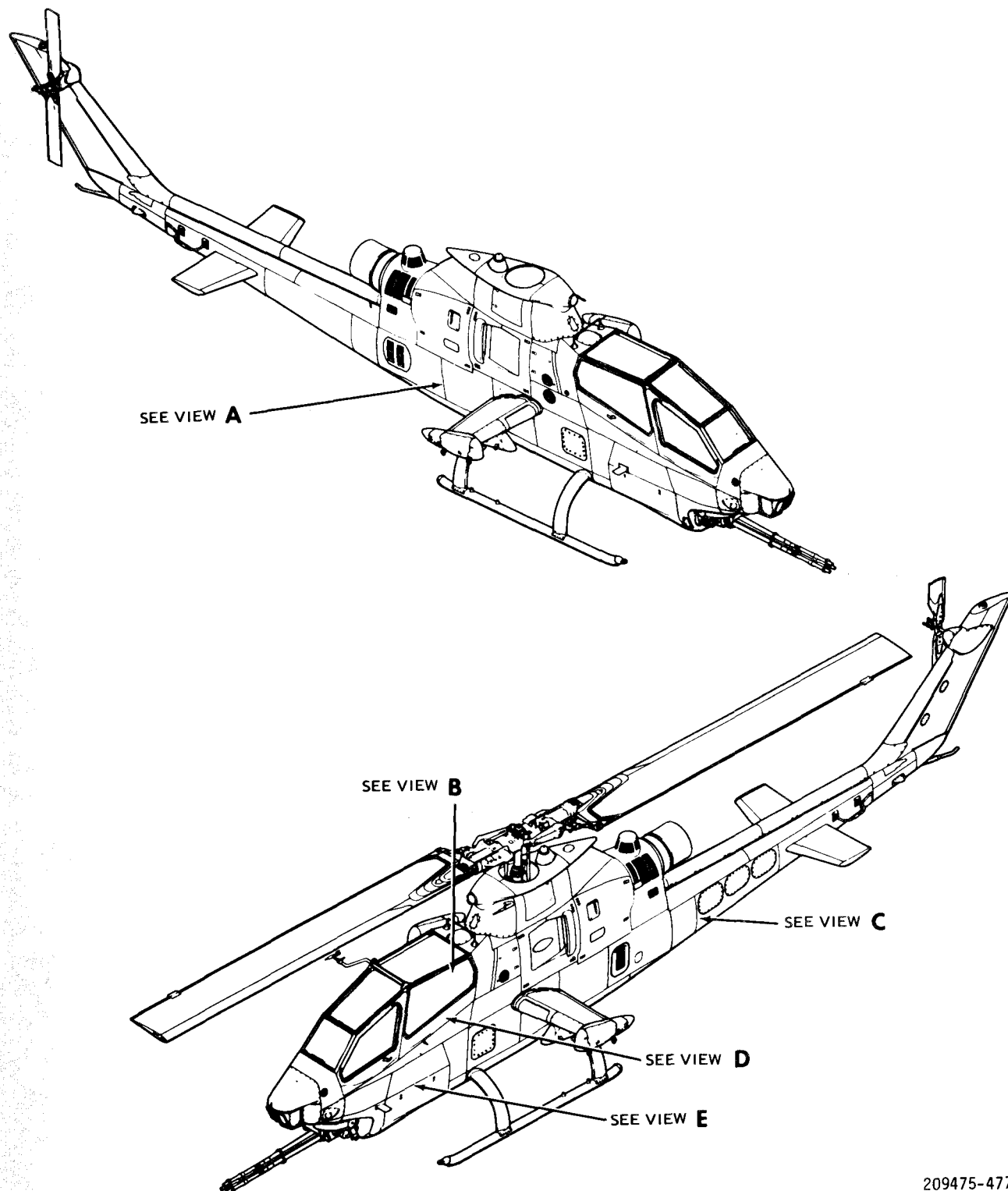


Figure F-70. M TOW Blower Cooling System (Sheet 1 of 7)



209475-477-1

Figure F-70. **M** TOW Blower Cooling System (Sheet 2 of 7)

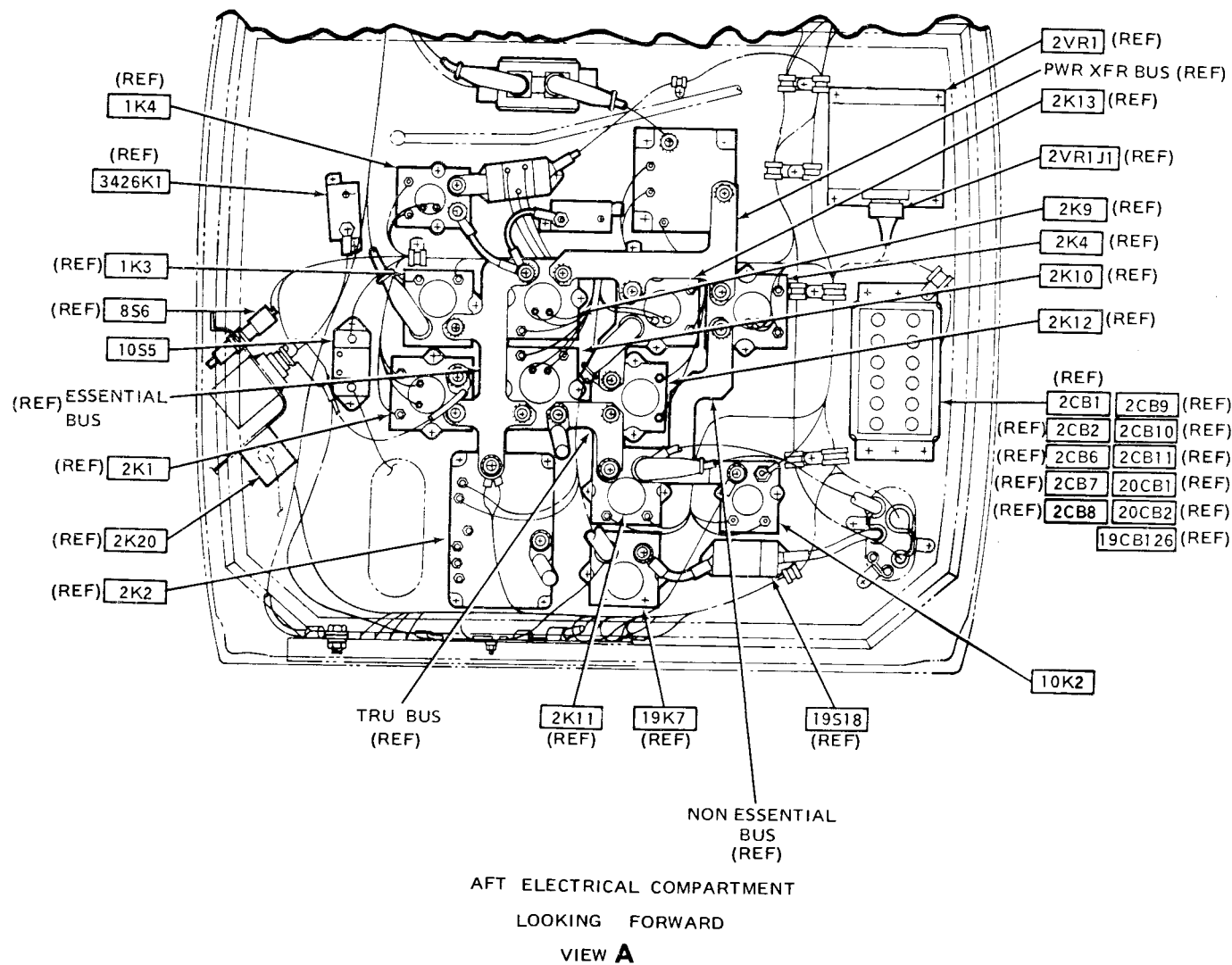
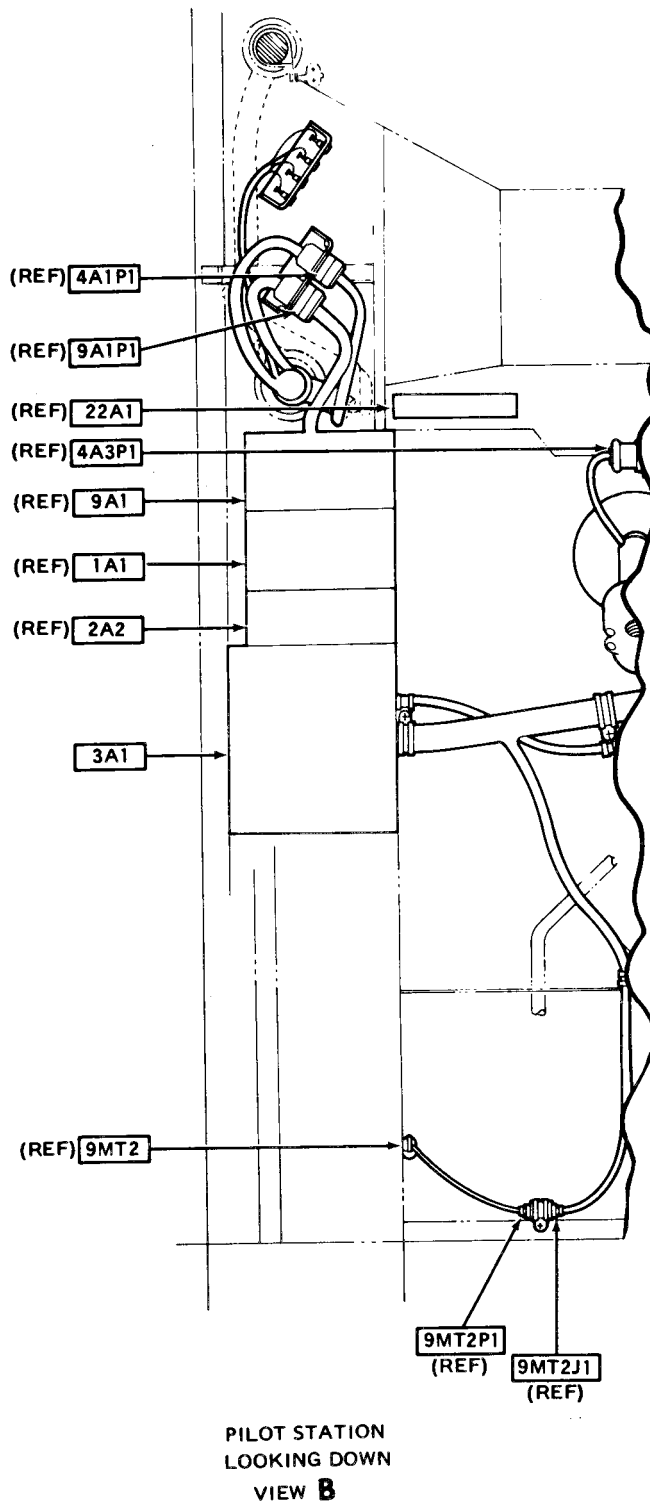


Figure F-70. TOW Blower Cooling System (Sheet 3 of 7)



209475-477-3

Figure F-70. **M** TOW Blower Cooling System (Sheet 4 of 7)

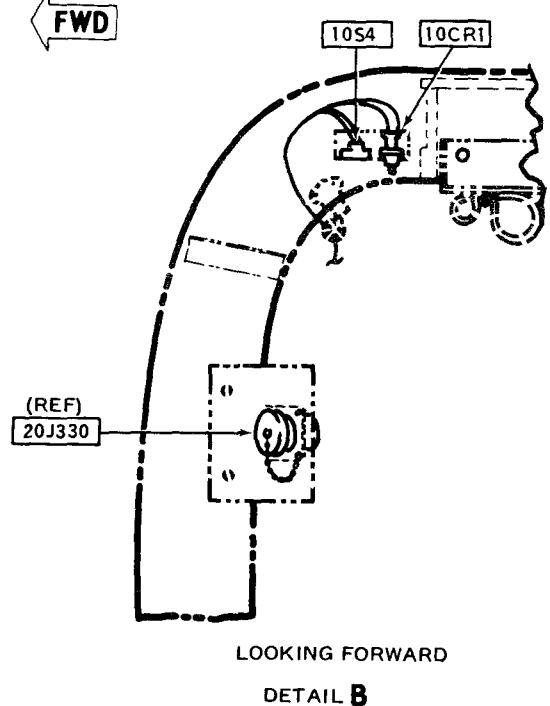
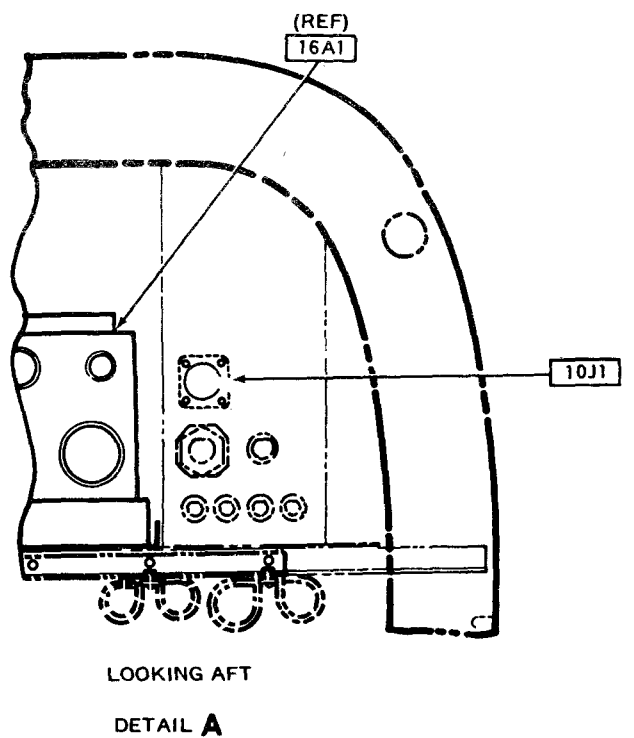
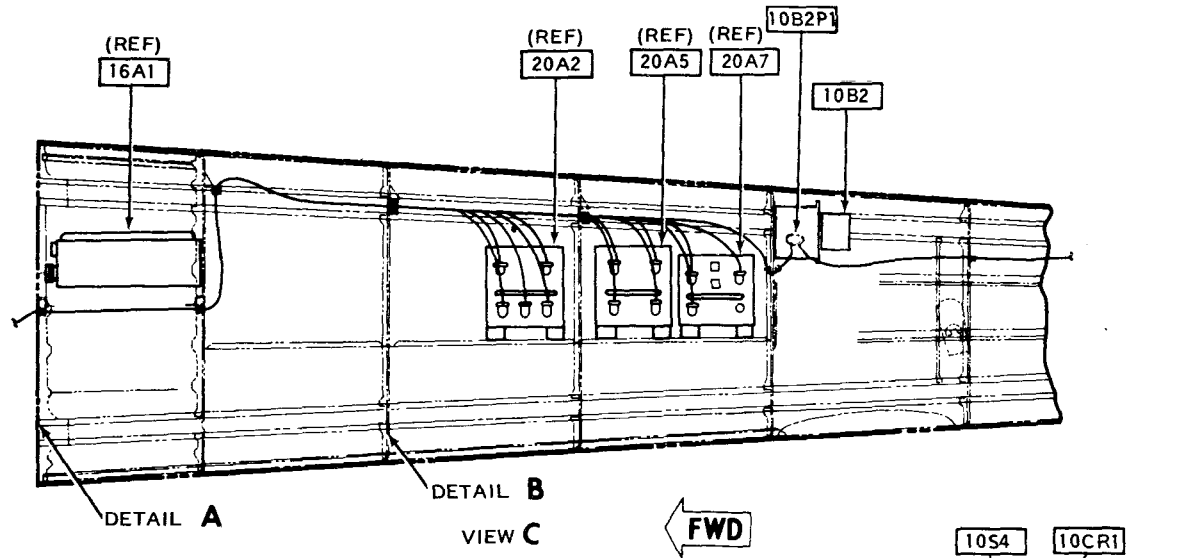
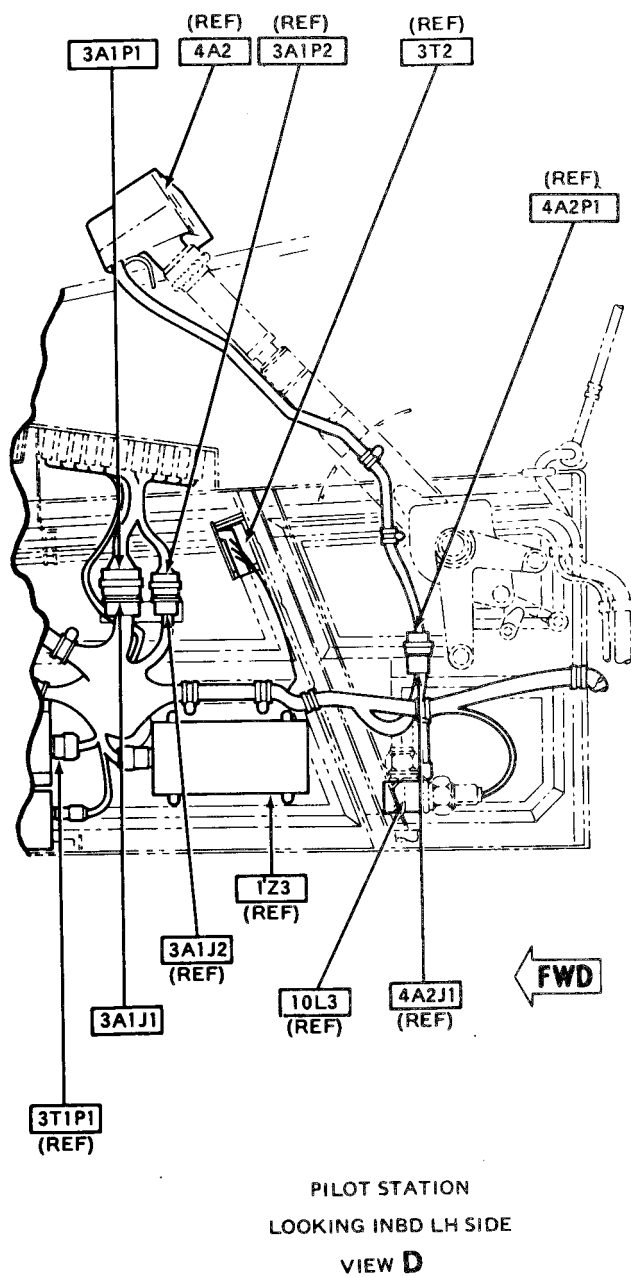
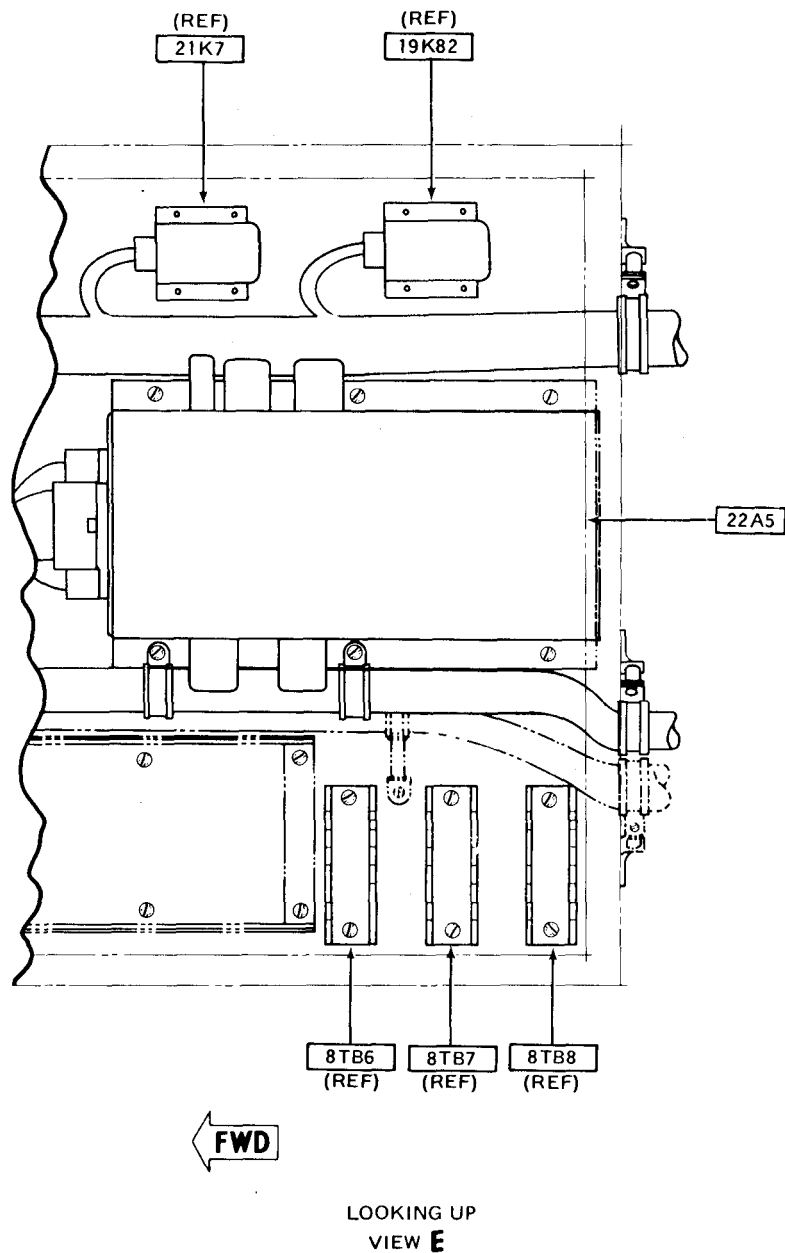


Figure F-70. TOW Blower Cooling System (Sheet 5 of 7)



209475-477-5

Figure F-70. **M** TOW Blower Cooling System (Sheet 6 of 7)



209475-477-6

Figure F-70. **M** TOW Blower Cooling System (Sheet 7 of 7)

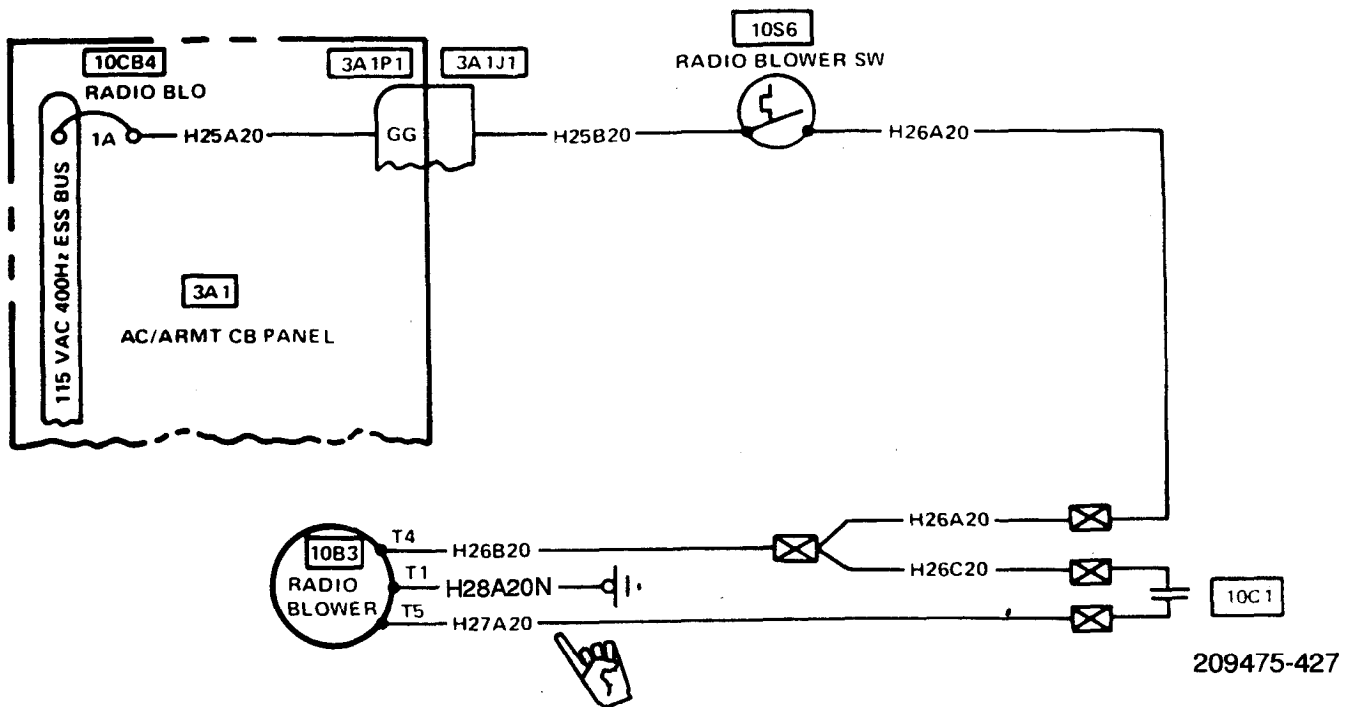
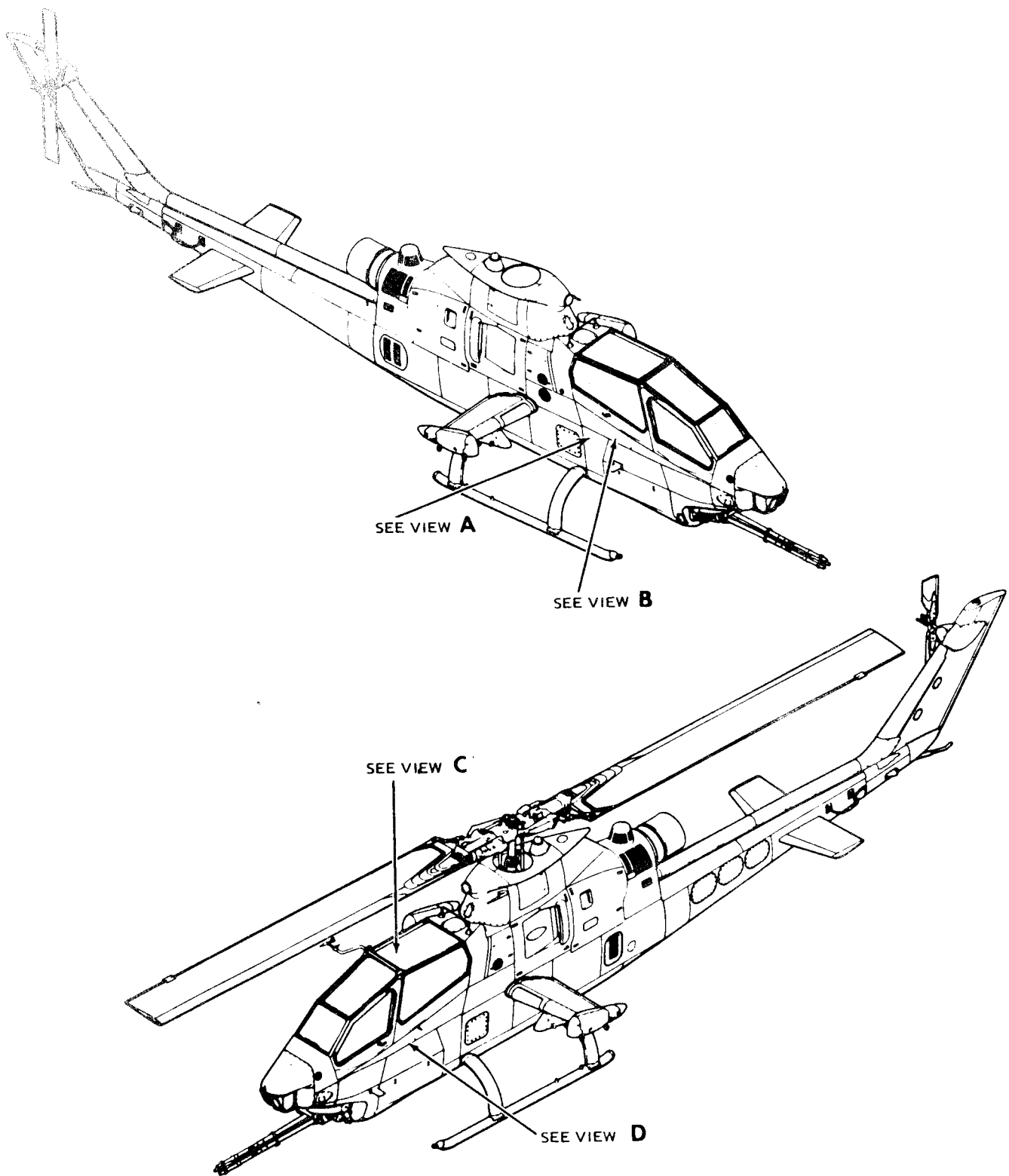
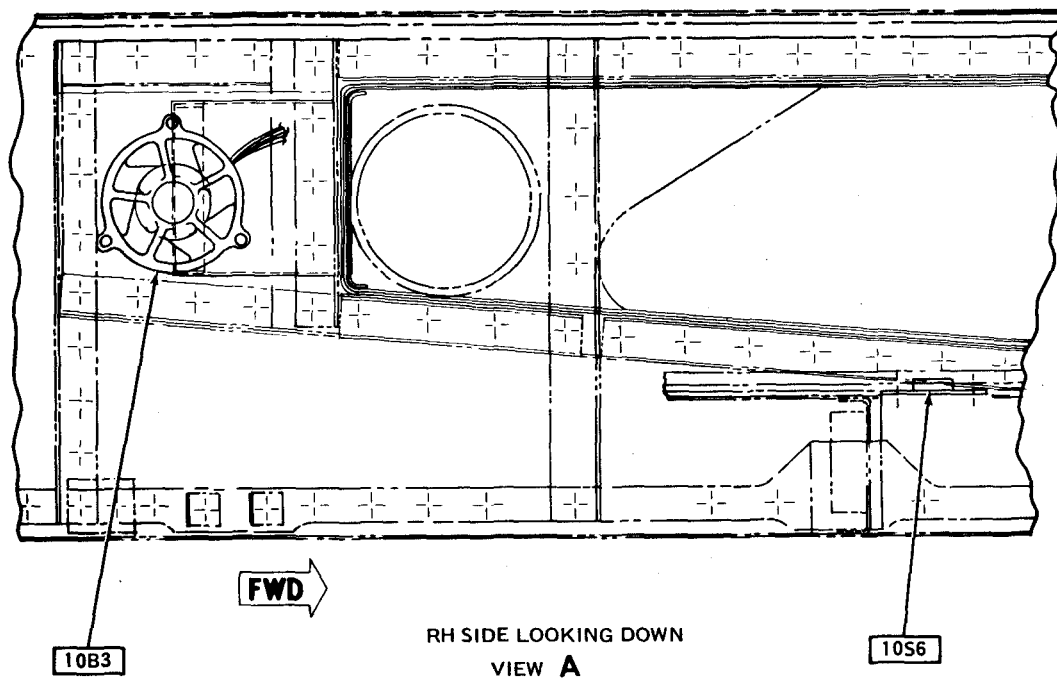


Figure F-71. M Radio Blower Cooling System (Sheet 1 of 6)



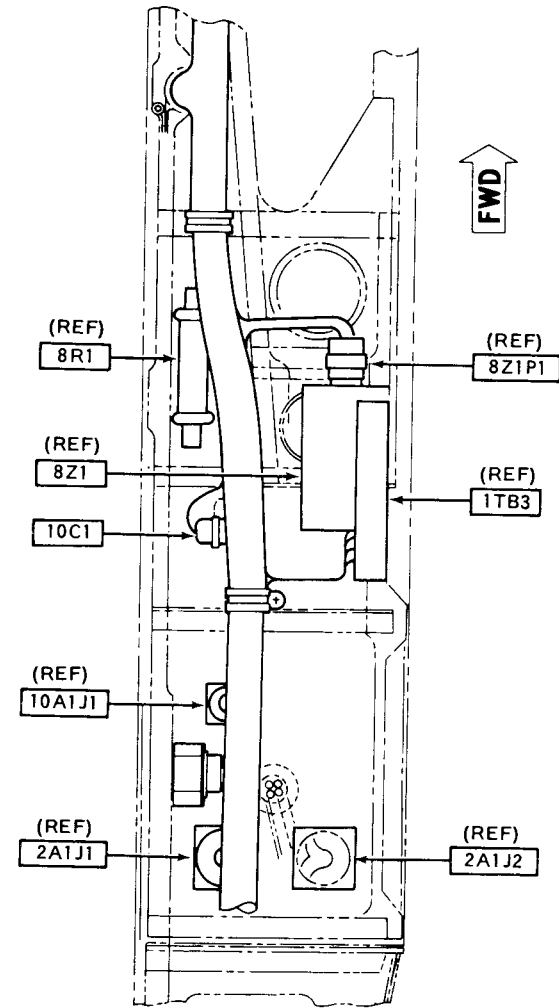
209475-482-1

Figure F-71. **M** Radio Blower Cooling System (Sheet 2 of 6)



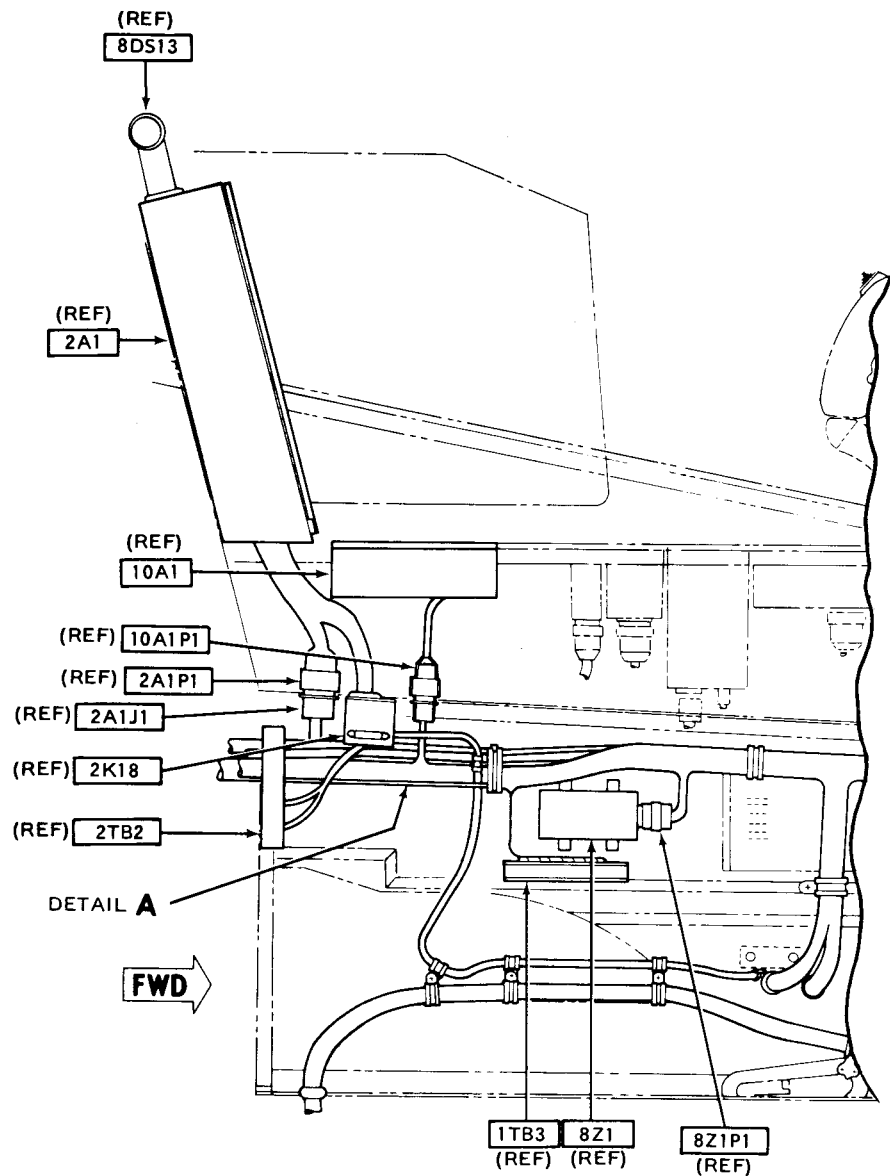
209475-482-2

Figure F-71. **M** Radio Blower Cooling System (Sheet 3 of 6)



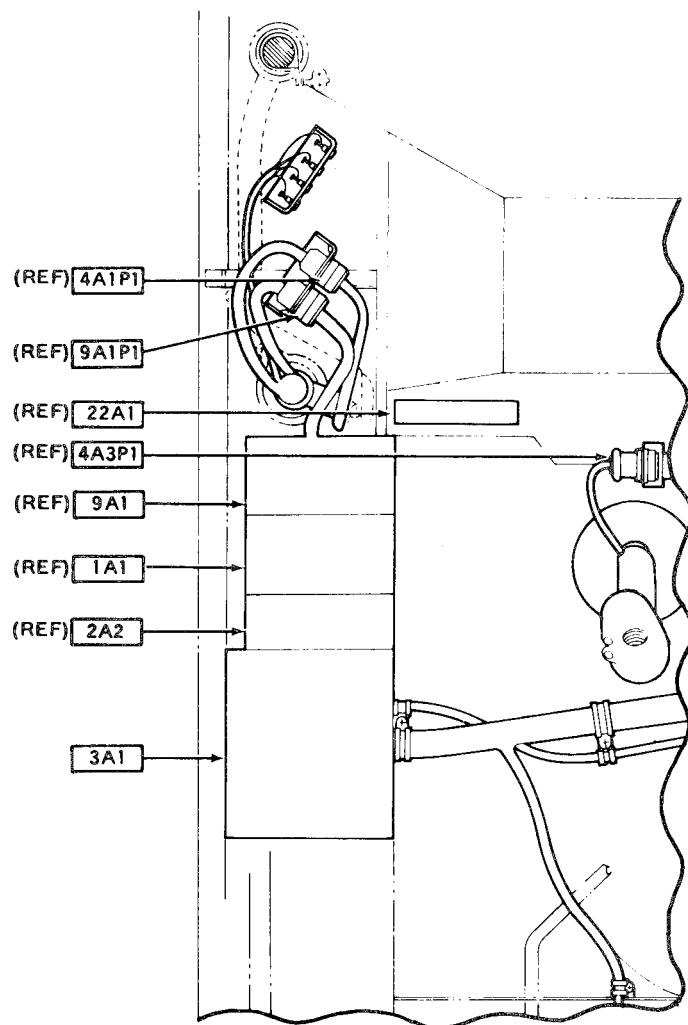
PILOT STATION
RH SIDE
LOOKING UP
DETAIL A

209475-482-3



PILOT STATION
RH SIDE LOOKING INBD
VIEW B

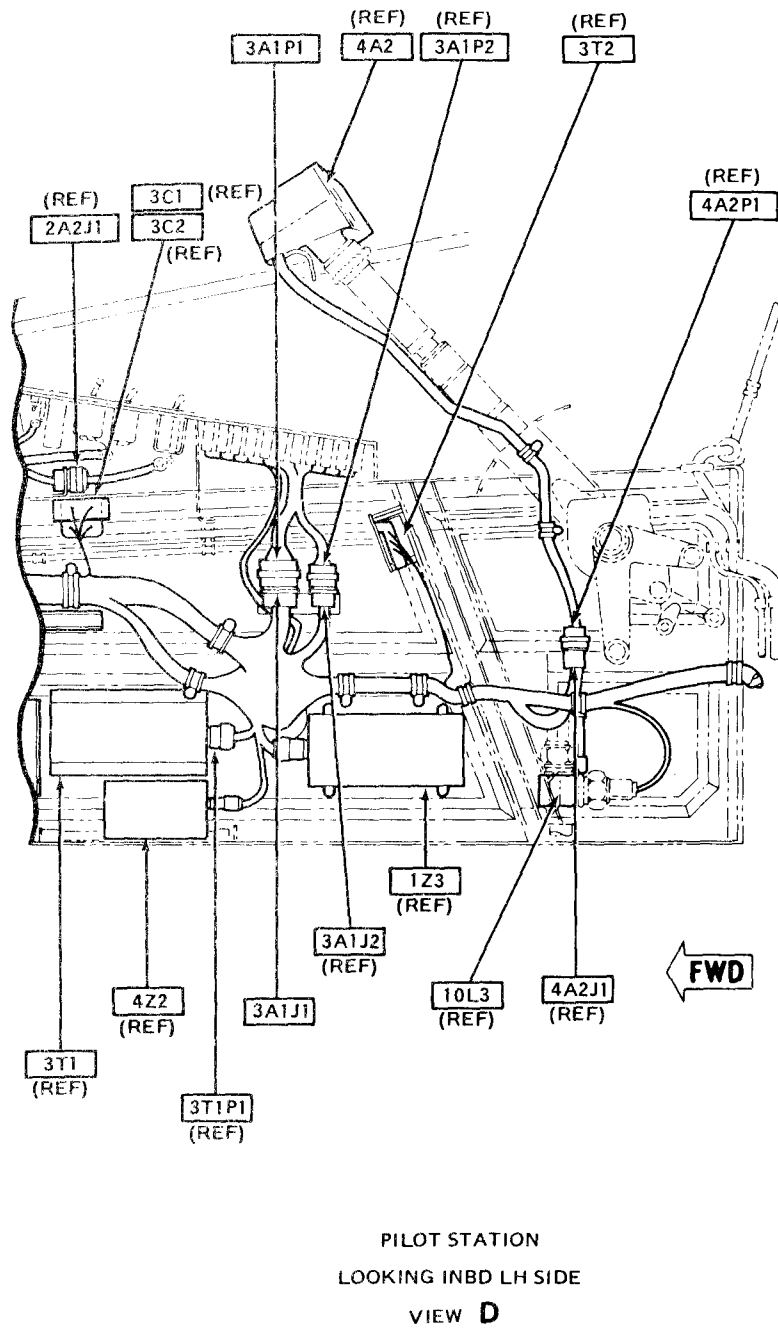
Figure F-71. **M** Radio Blower Cooling System (Sheet 4 of 6)



PILOT STATION
LOOKING DOWN
VIEW C

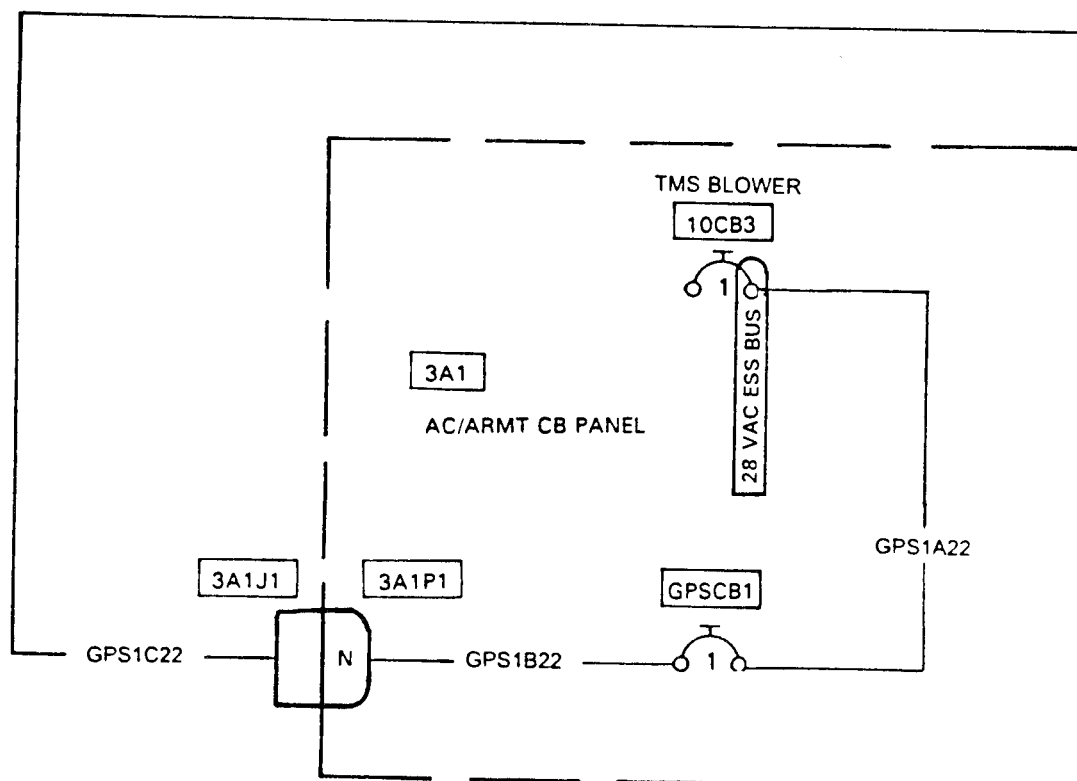
209475-482-4

Figure F-71. **M** Radio Blower Cooling System (Sheet 5 of 6)

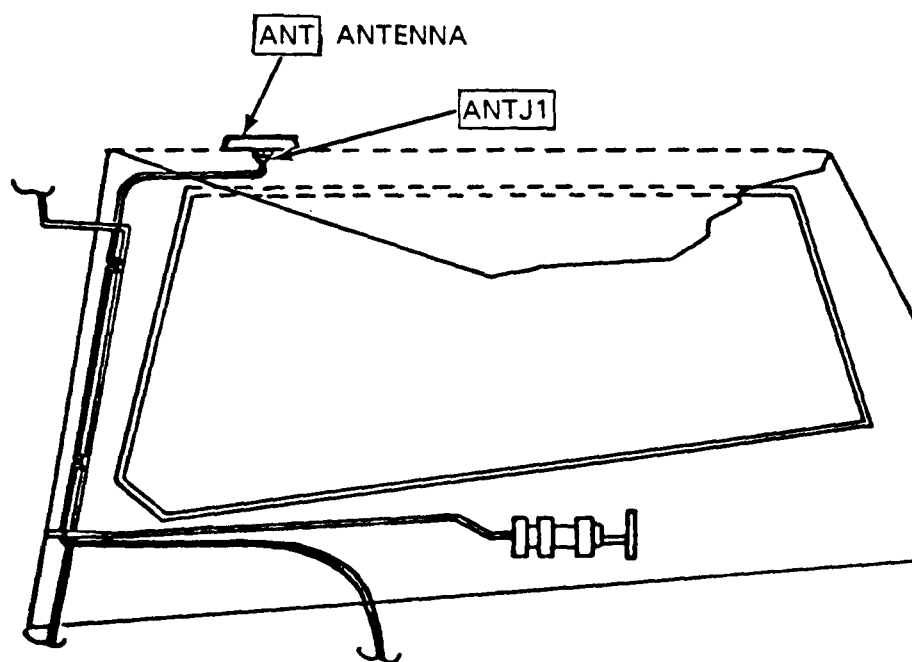
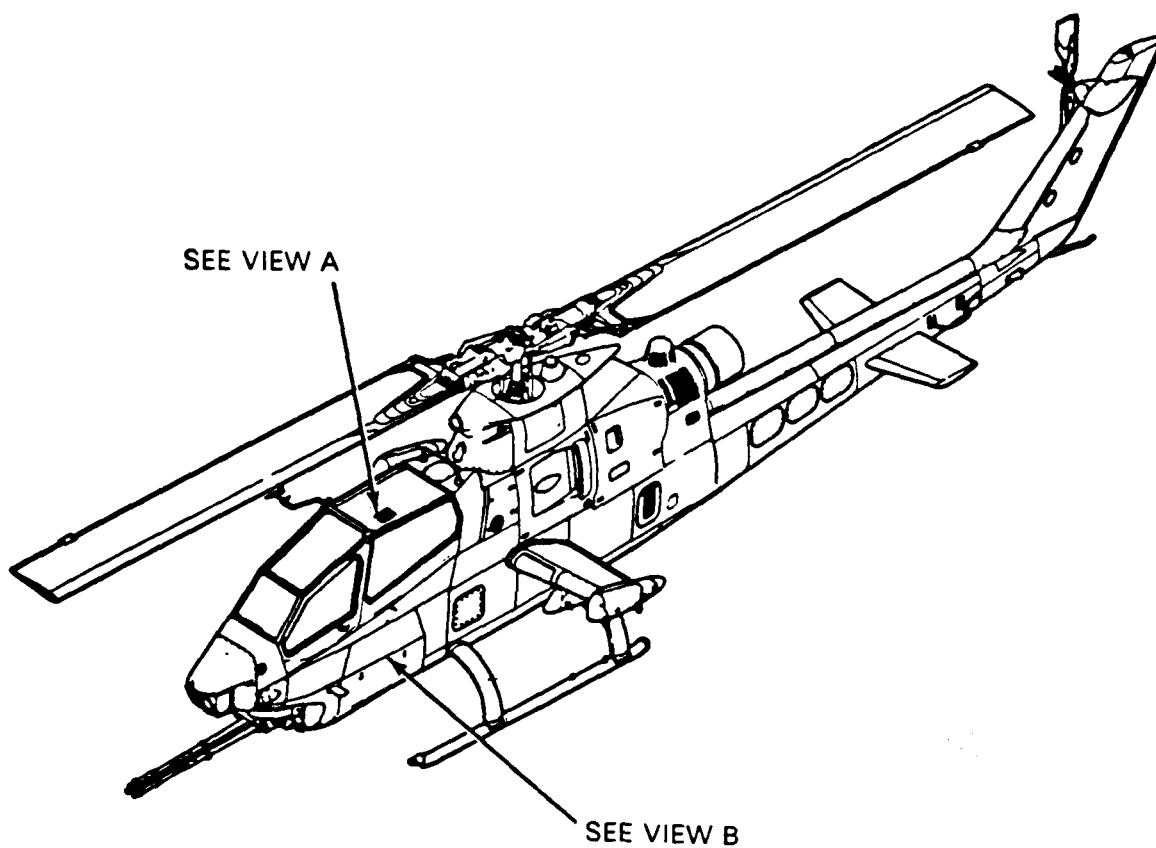


209475-482-5

Figure F-71. **M** Radio Blower Cooling System (Sheet 6 of 6)



(F-366.1 blank)/F-366.2 **Change 16**



PILOT STATION
LH SIDE LOOKING OUTBOARD
VIEW A

Figure F-71.2. GPS Trimpack System (Sheet 2 of 3)

M

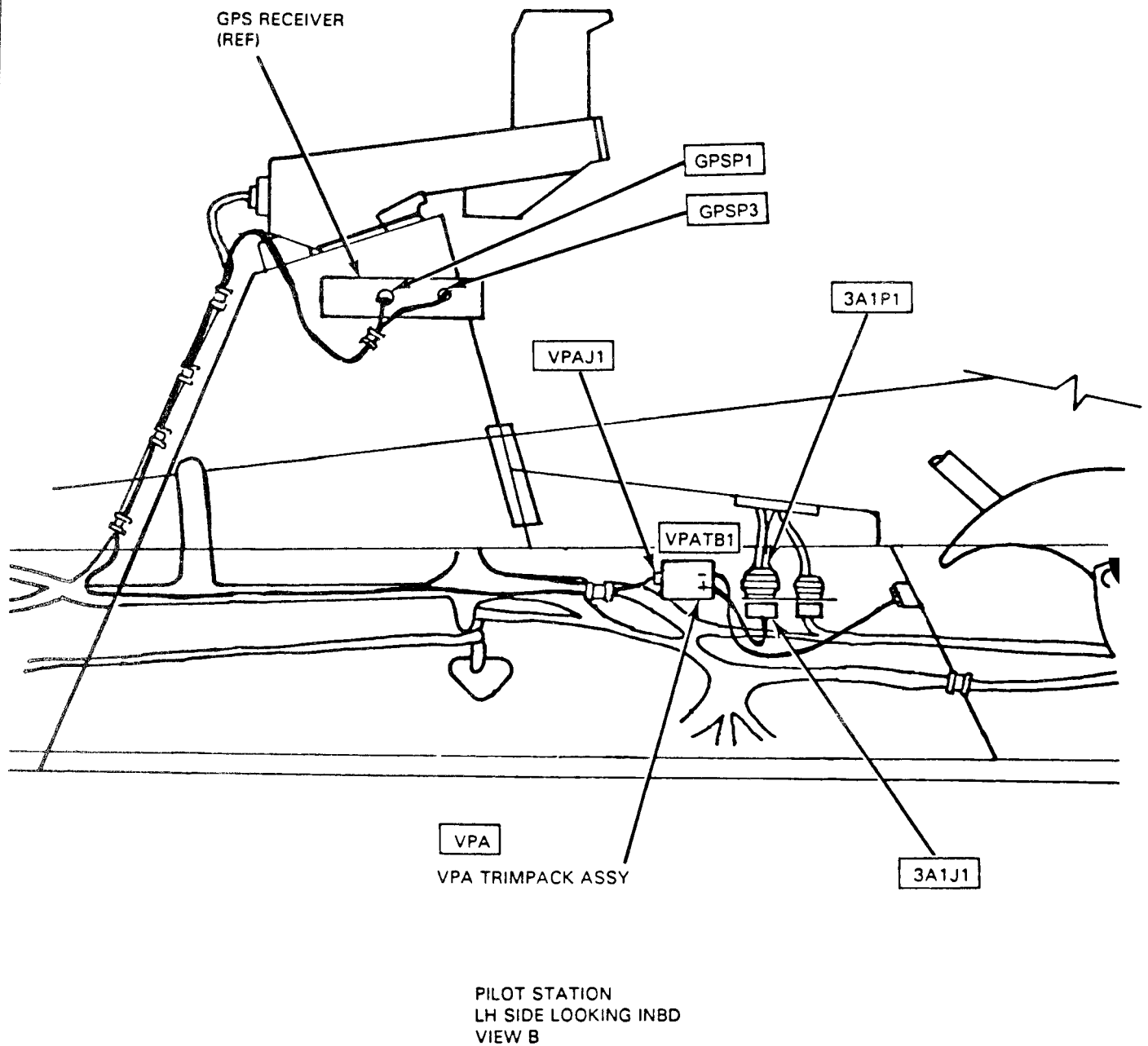


Figure F-71.2. **M** GPS Trimpack System (Sheet 3 of 3)

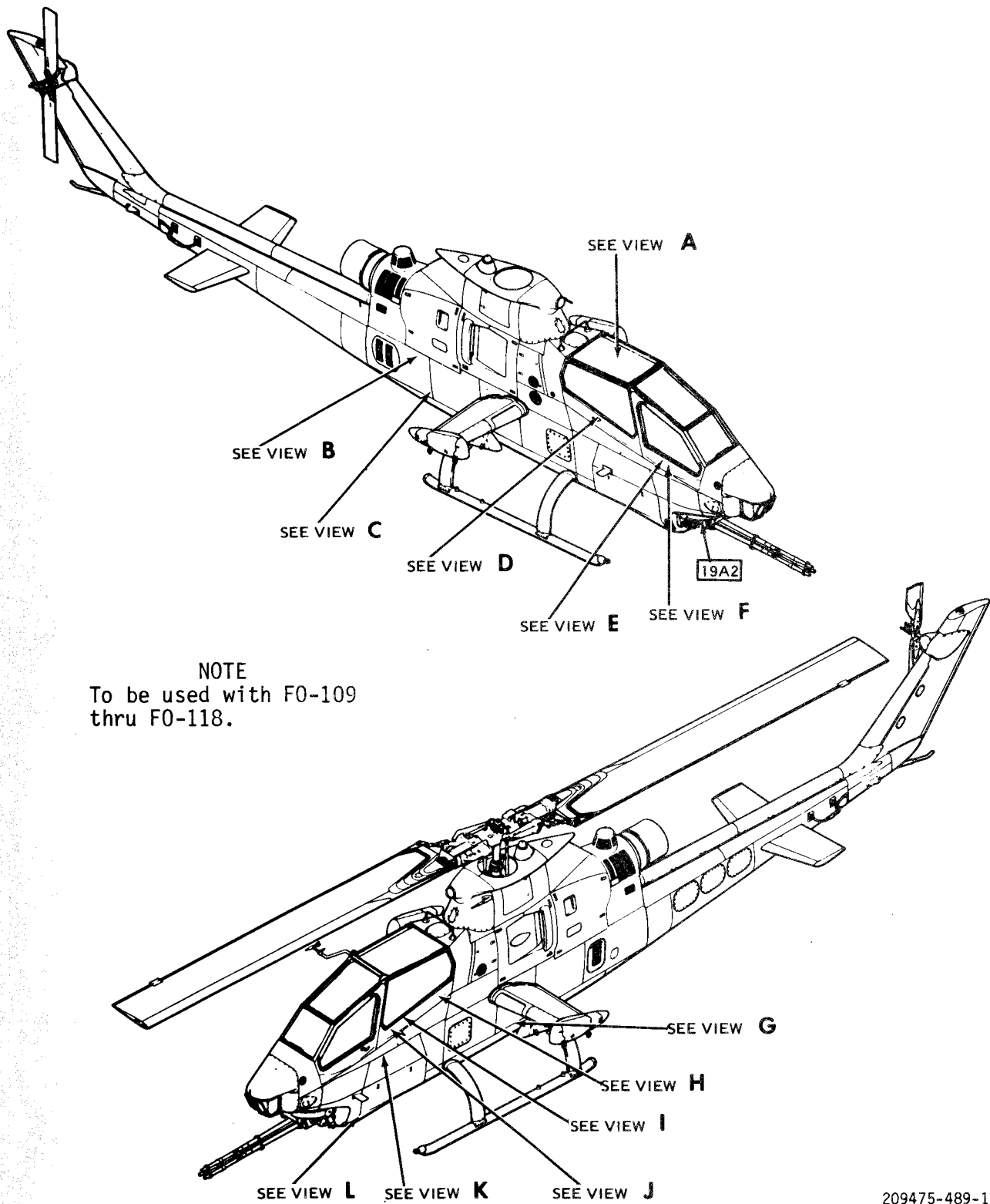
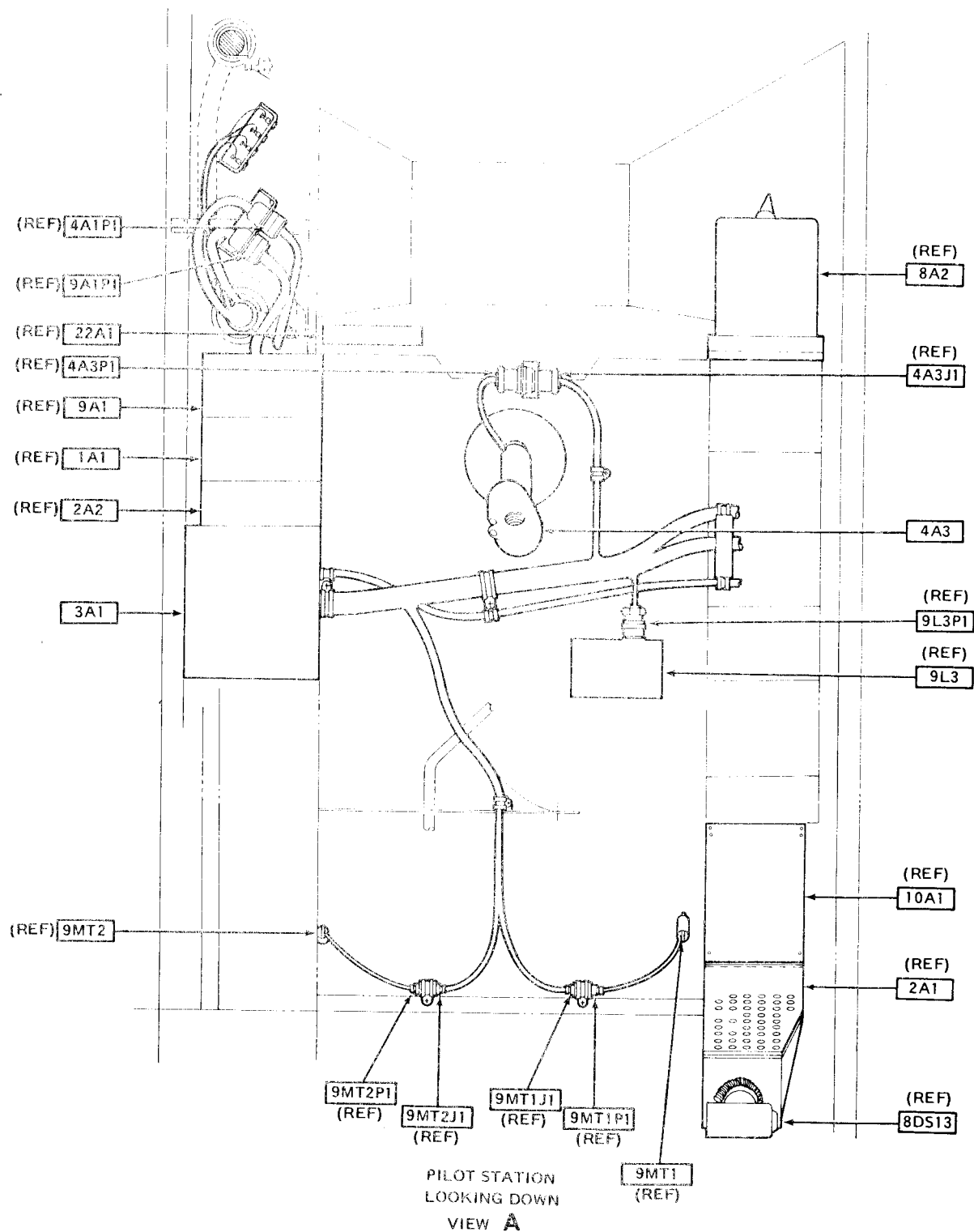


Figure F-72. **M** Universal Turret Subsystem (Equipment Location) (Sheet 1 of 15)



209475-489-2

M
Figure F-72.

Universal Turret Subsystem (Equipment Location) (Sheet 2 of 15)

209475-489-3

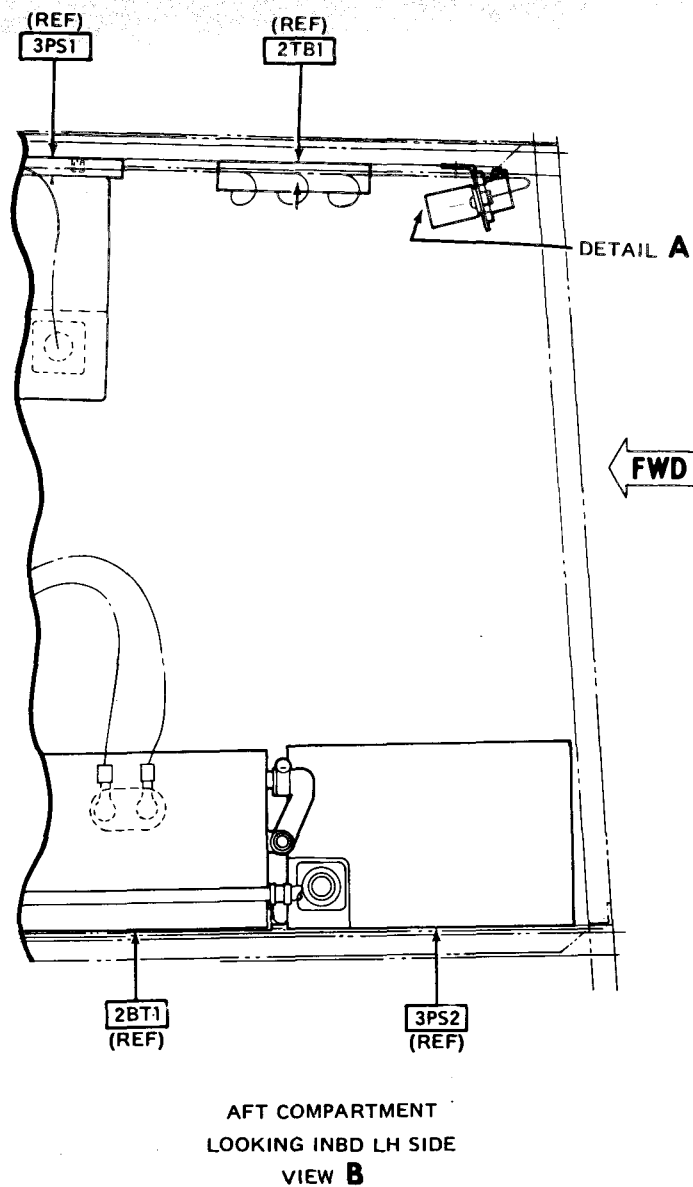
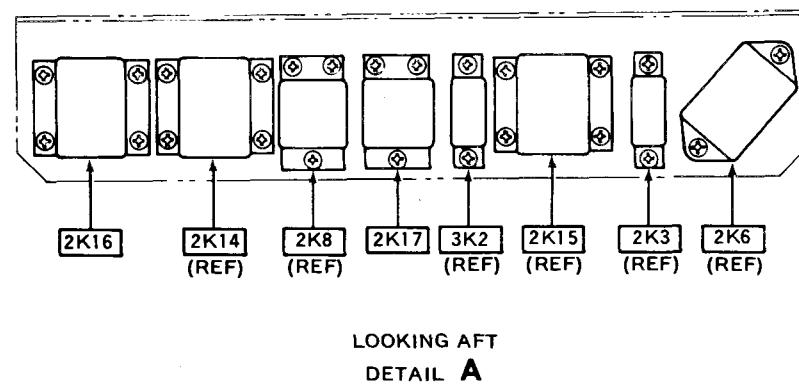
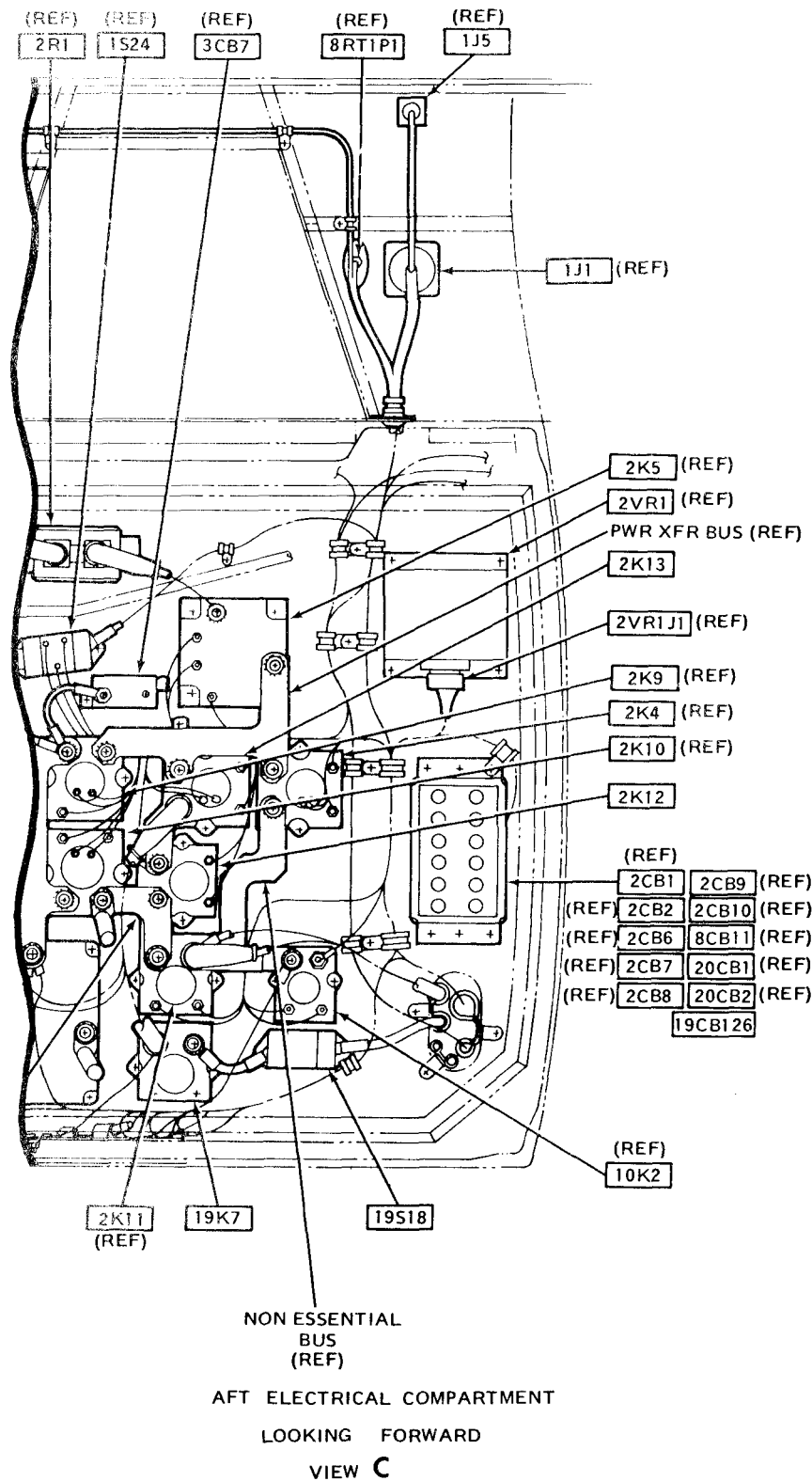


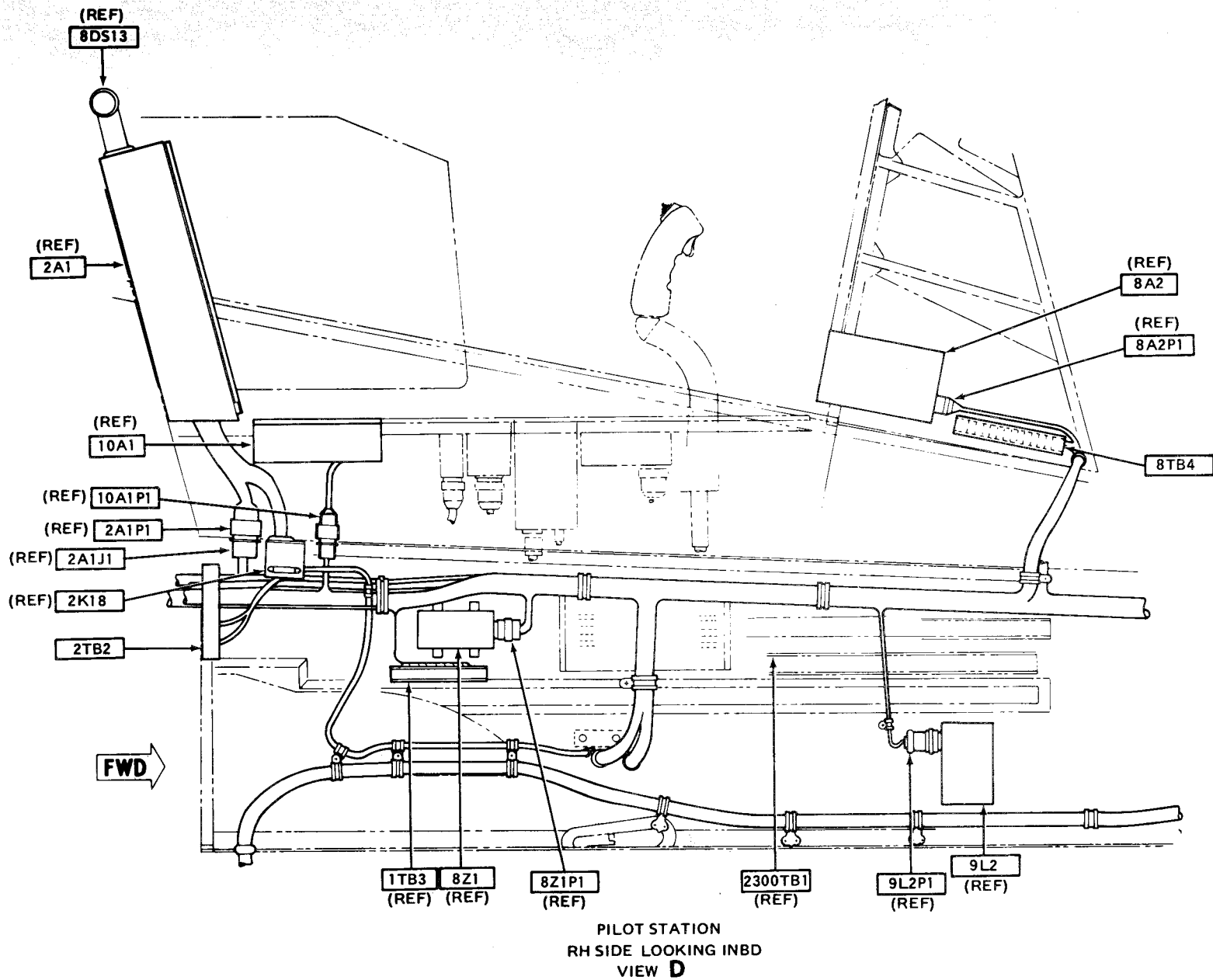
Figure F-72.

Universal Turret Subsystem (Equipment Location) (Sheet 3 of 15)



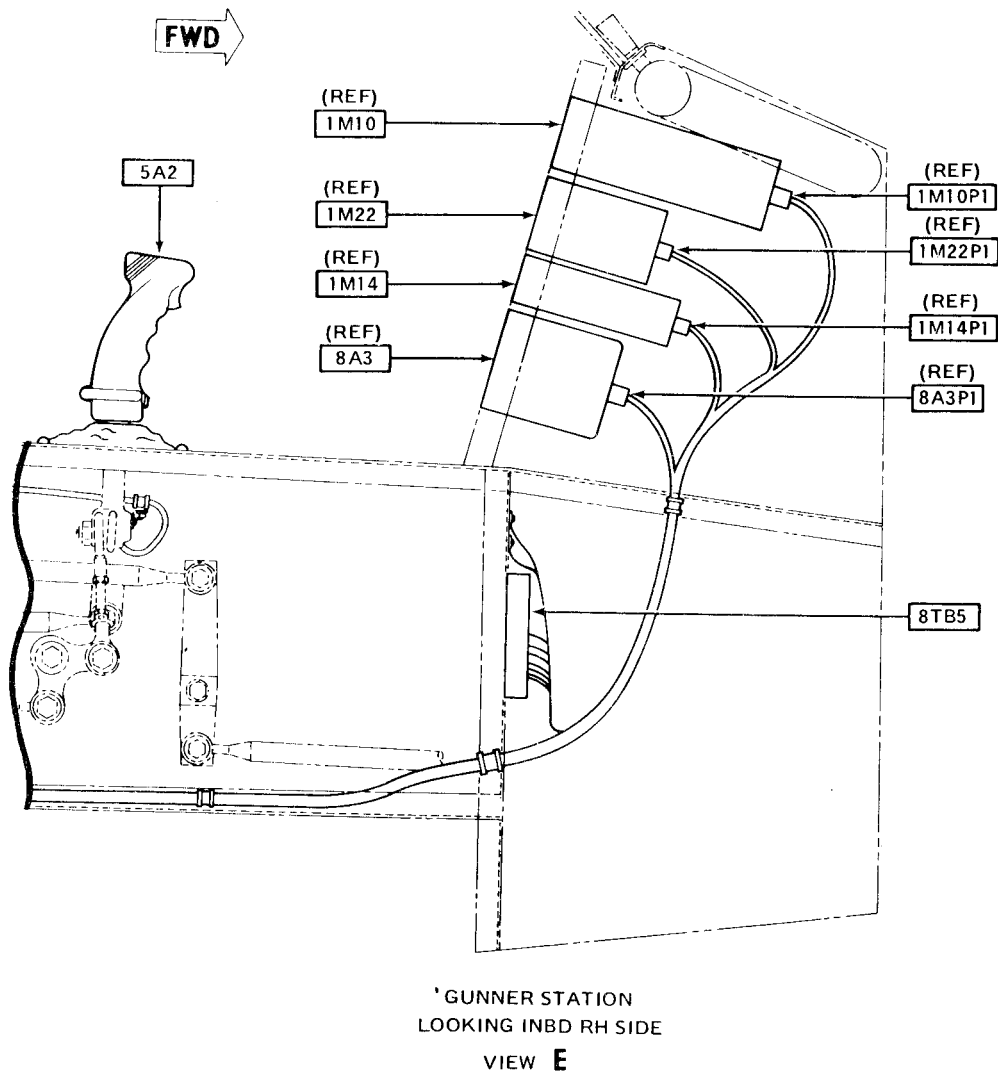
209475-489-4

Figure F-72. **M** Universal Turret Subsystem (Equipment Location) (Sheet 4 of 15)



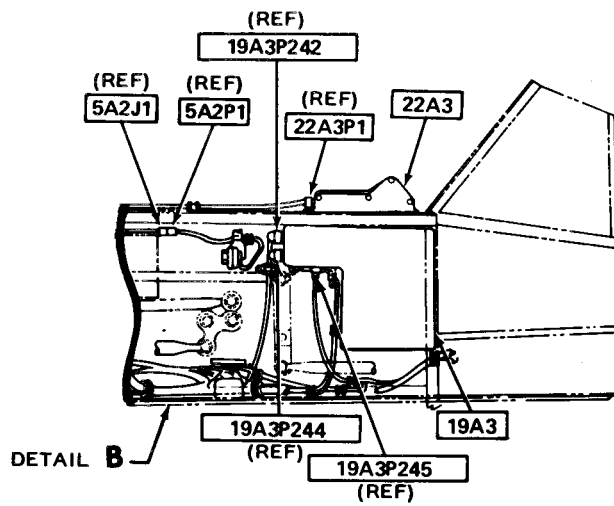
209475-489-5

Figure F-72. **M** Universal Turret Subsystem (Equipment Location) (Sheet 5 of 15)



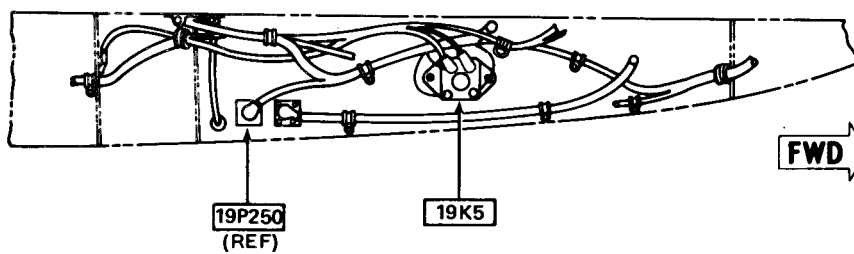
209475-489-6

M
Figure F-72. Universal Turret Subsystem (Equipment Location) (Sheet 6 of 15)



RH SIDE LOOKING INBD

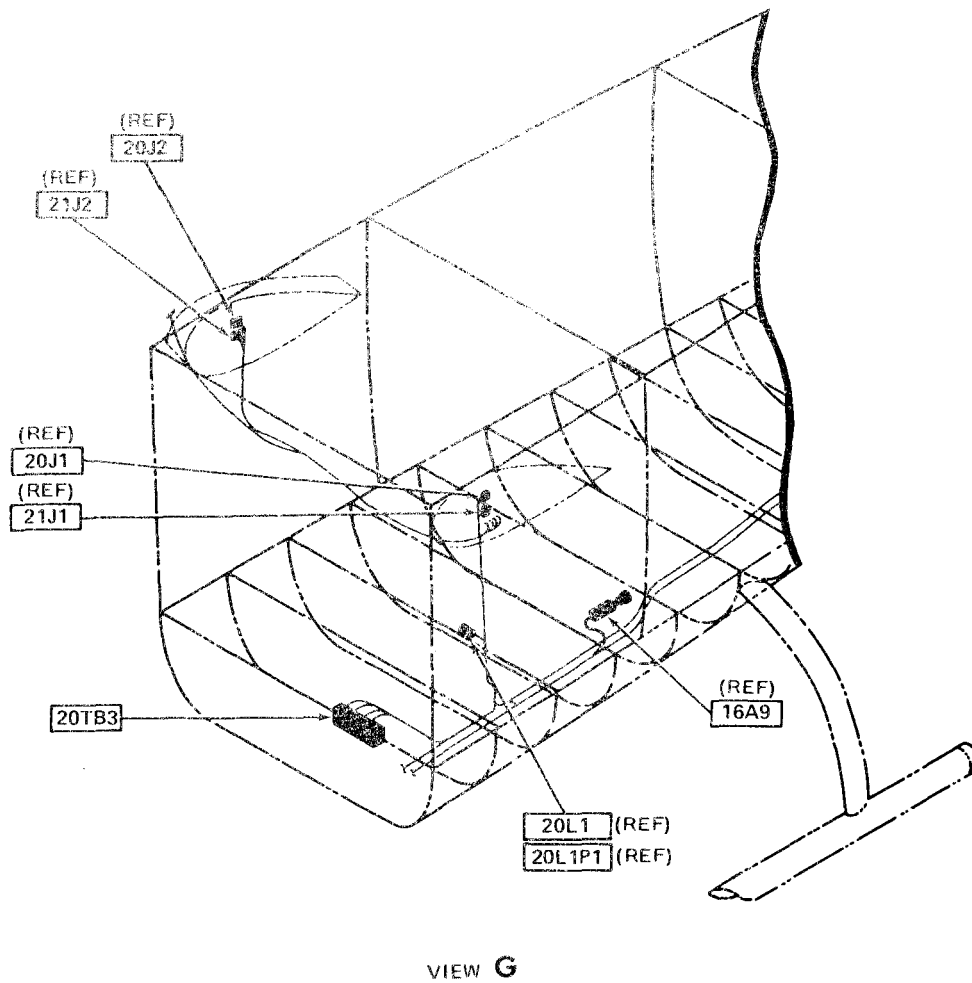
VIEW F



LOOKING DOWN
DETAIL B

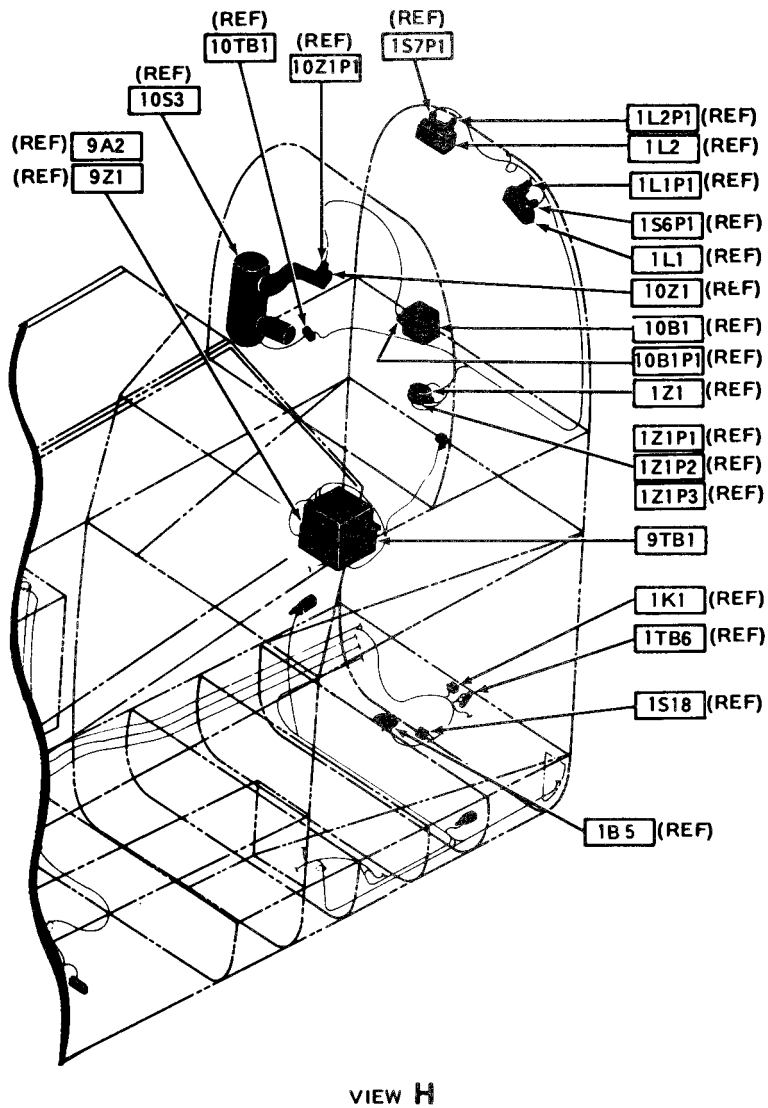
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Figure F-72. **M** Universal Turret Subsystem (Equipment Location) (Sheet 7 of 15)



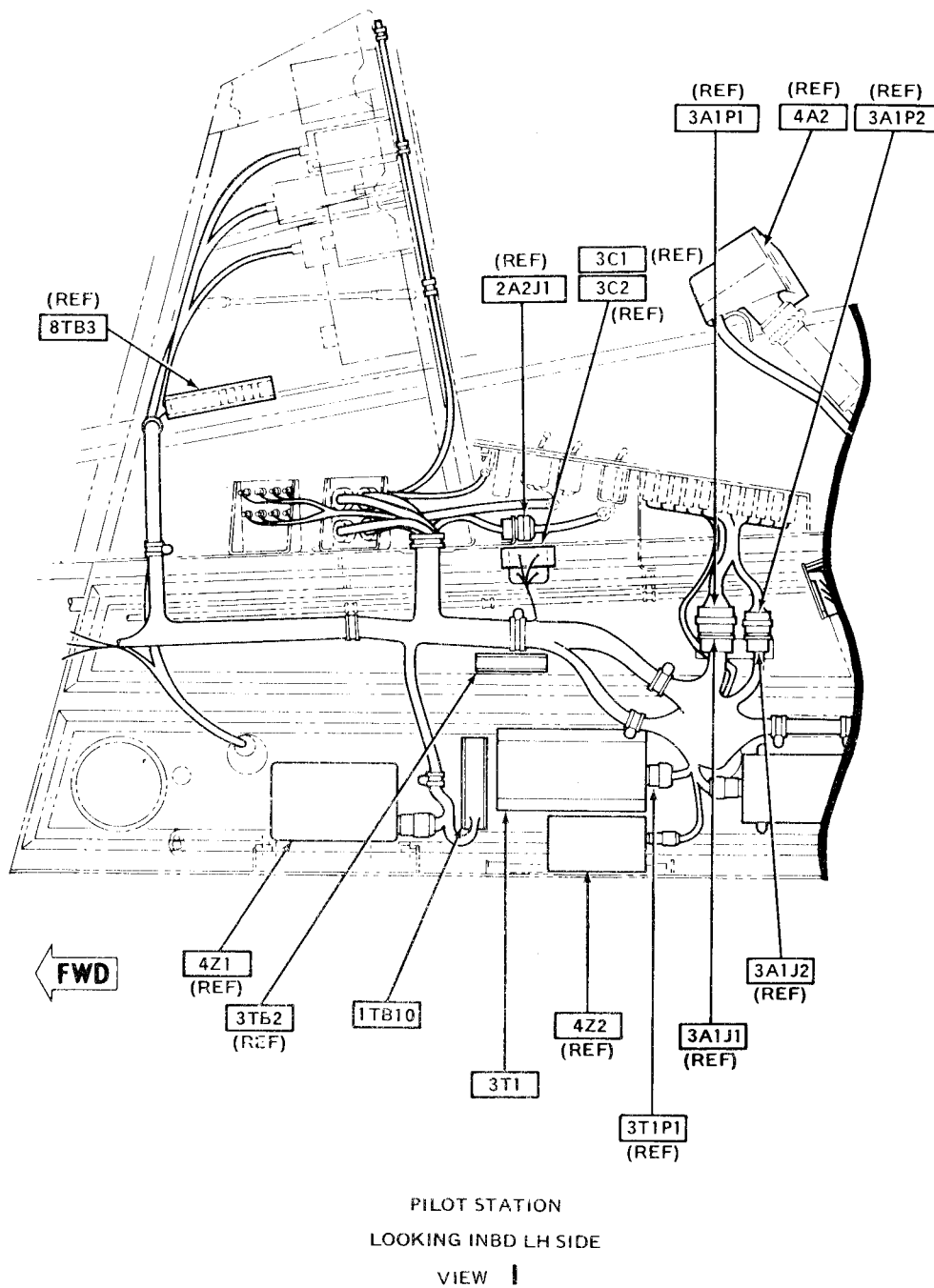
209475-489-8

Figure F-72. **M** Universal Turret Subsystem (Equipment Location) (Sheet 8 of 15)



209475-489-9

Figure F-72. **M** Universal Turret Subsystem (Equipment Location) (Sheet 9 of 15)



209475-489-10

Figure F-72. **M** Universal Turret Subsystem (Equipment Location) (Sheet 10 of 15)

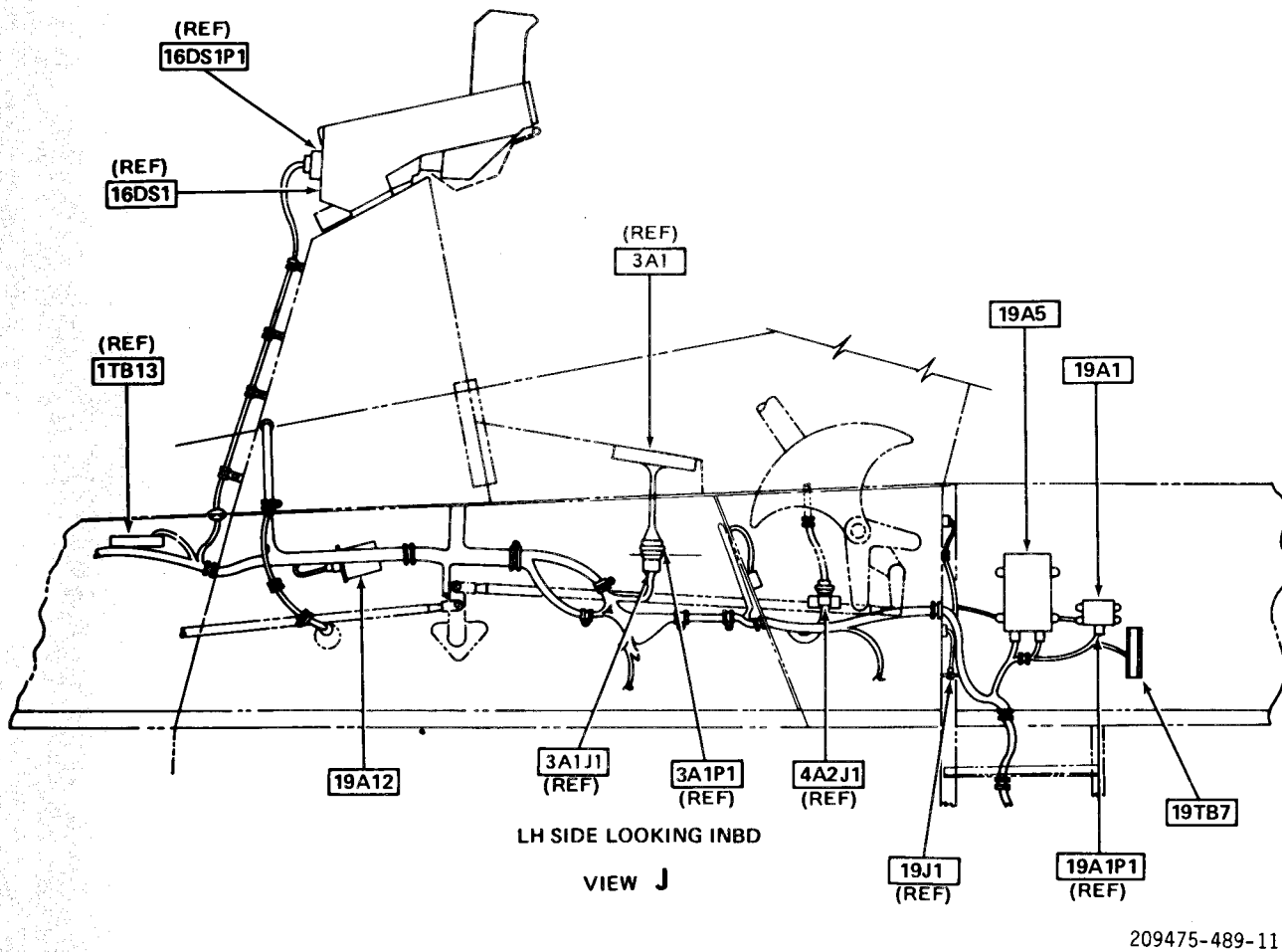
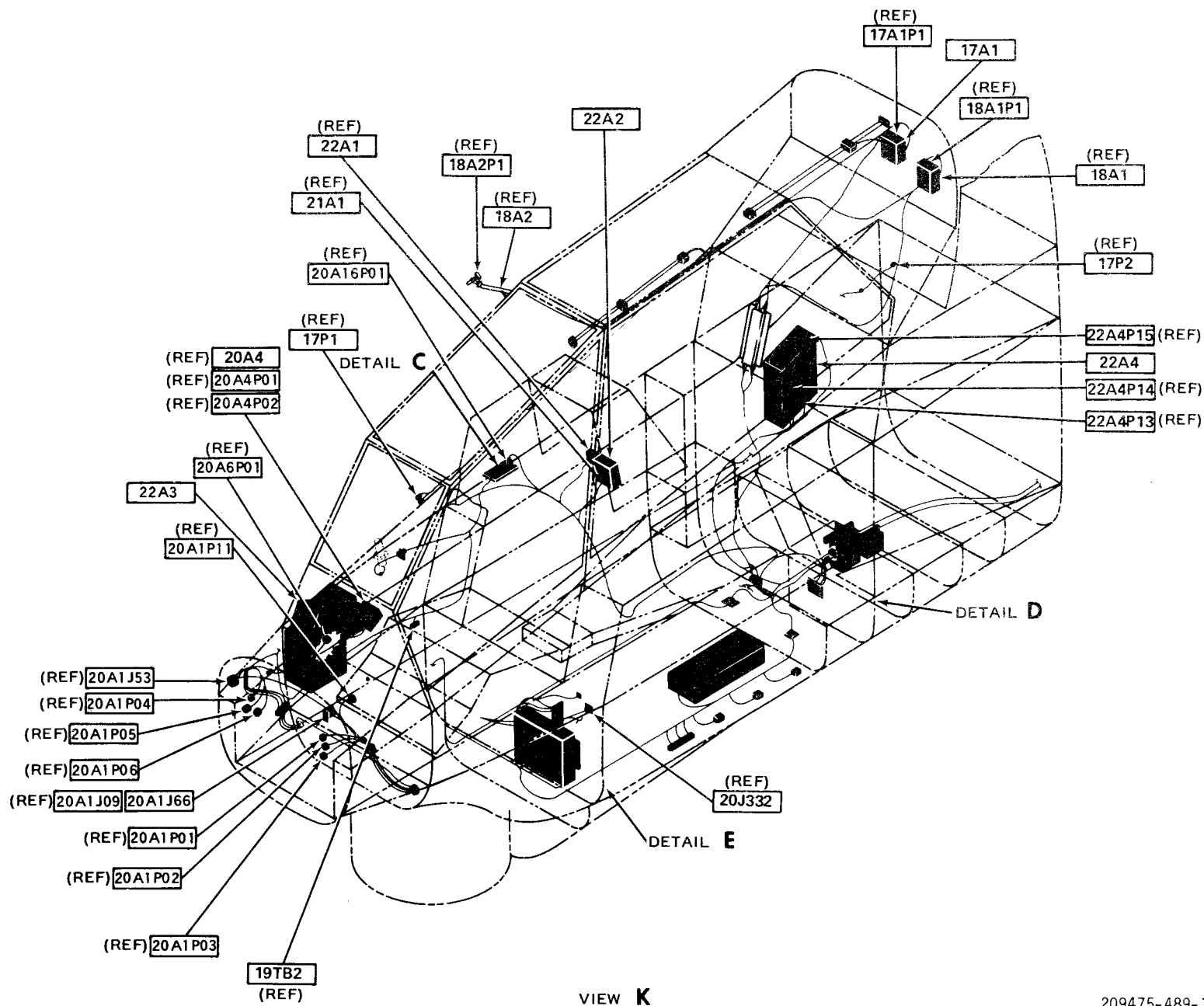


Figure F-72. **M** Universal Turret Subsystem (Equipment Location) (Sheet 11 of 15)



209475-489-12

Figure F-72. Universal Turret Subsystem (Equipment Location) (Sheet 12 of 15)

209475-489-13

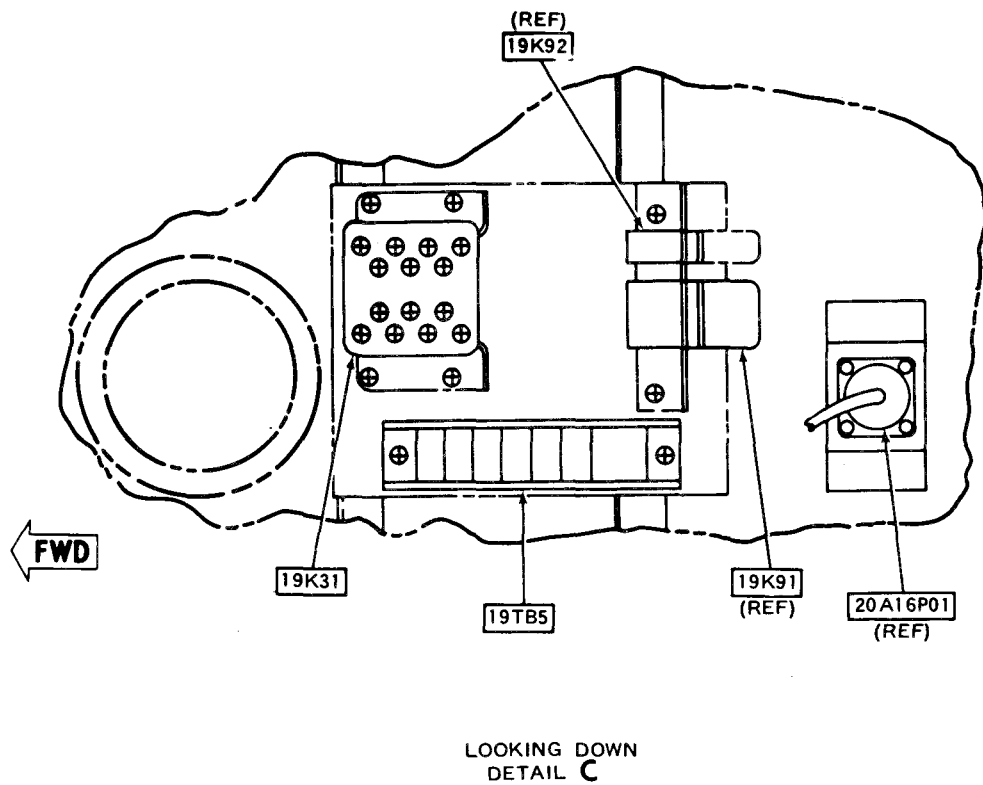
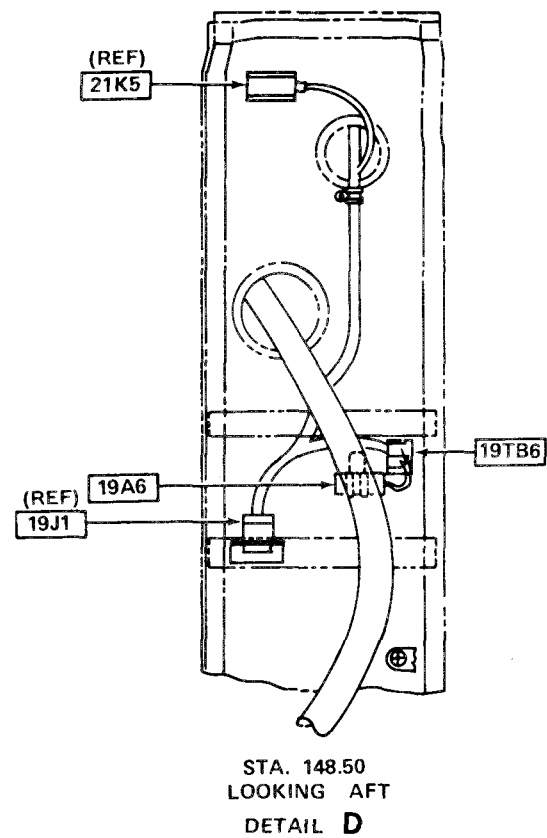
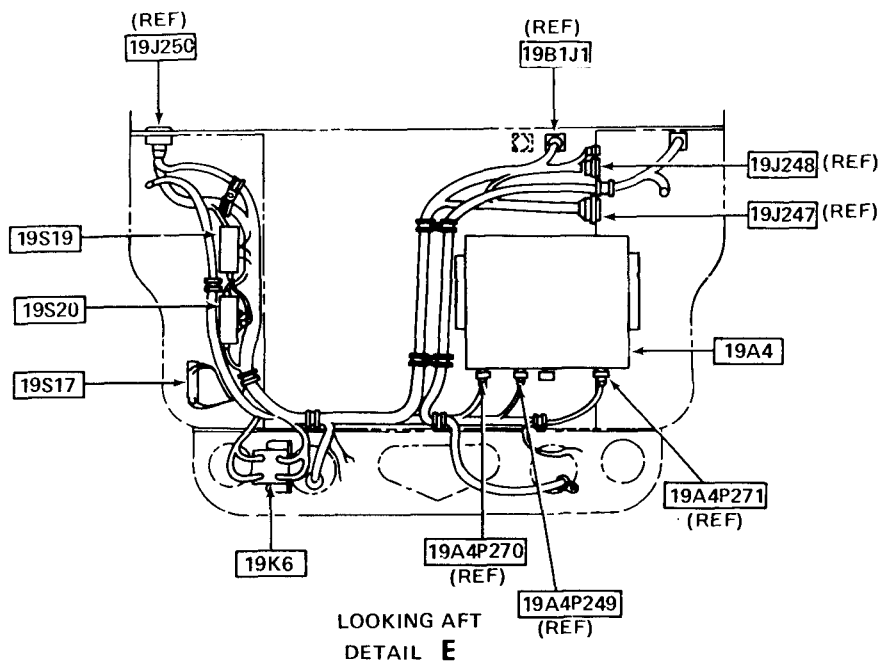


Figure F-72. **M** Universal Turret Subsystem (Equipment Location) (Sheet 13 of 15)



209475-489-14

Figure F-72. **M** Universal Turret Subsystem (Equipment Location) (Sheet 14 of 15)

209475-489-15

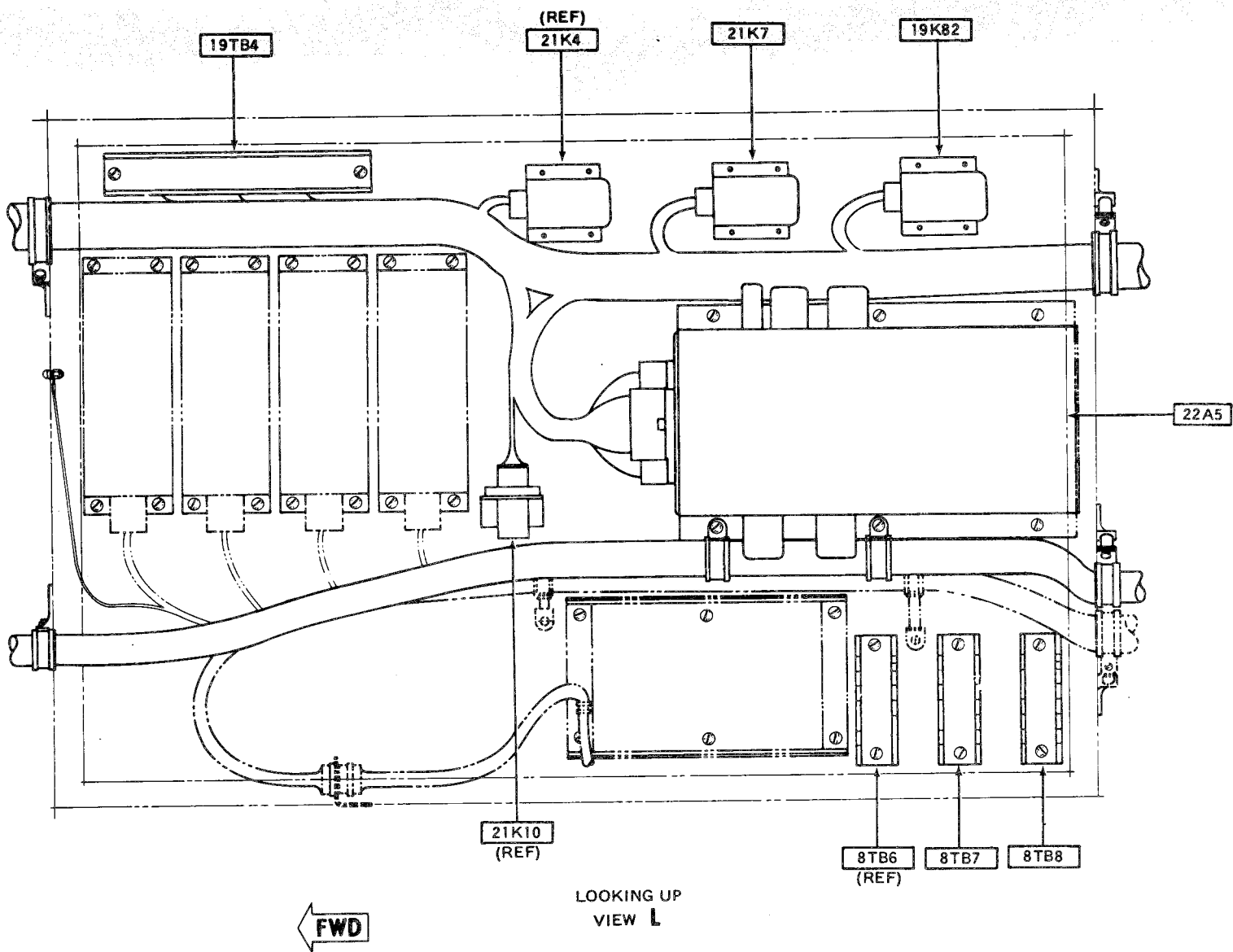
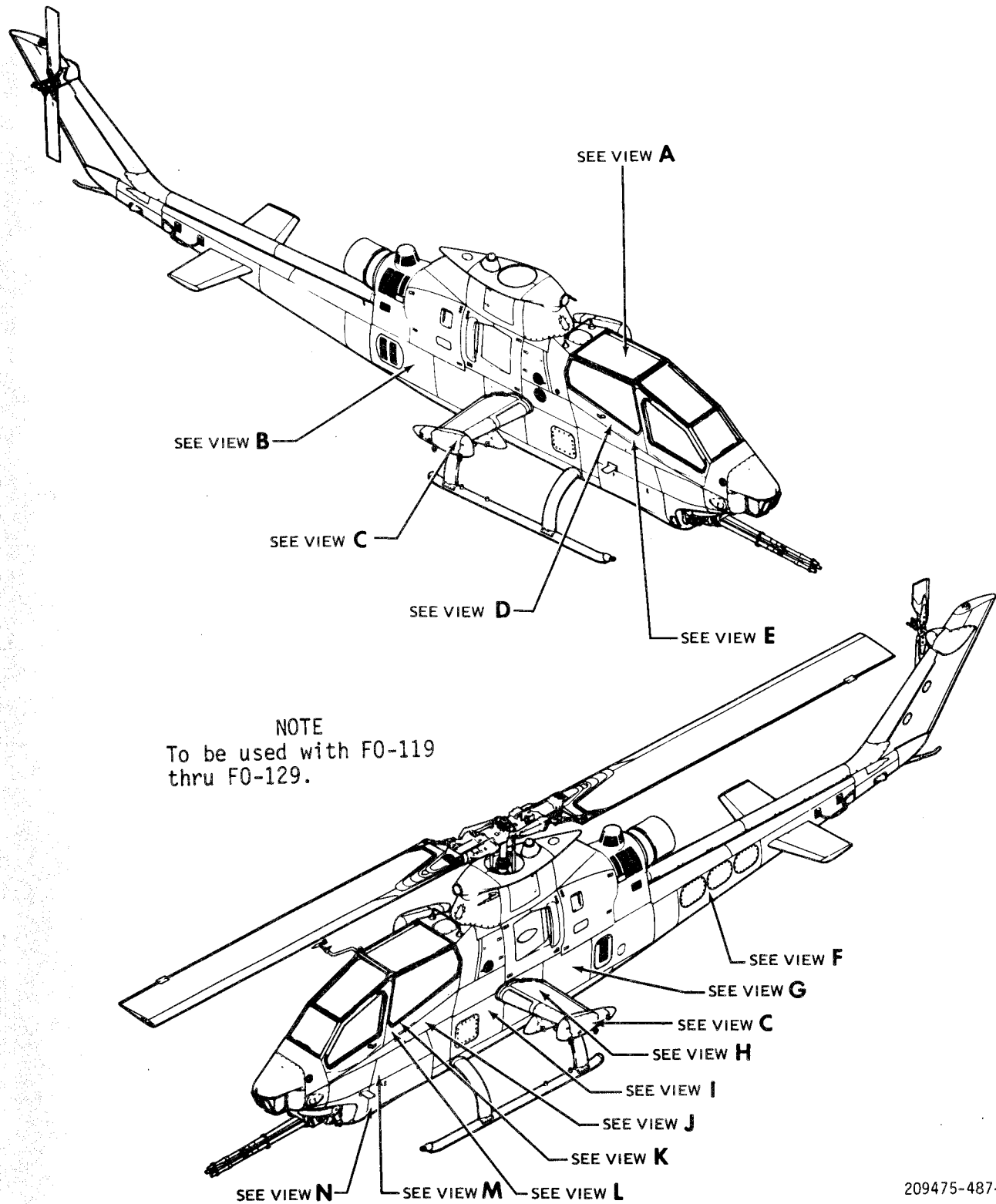


Figure F-72.



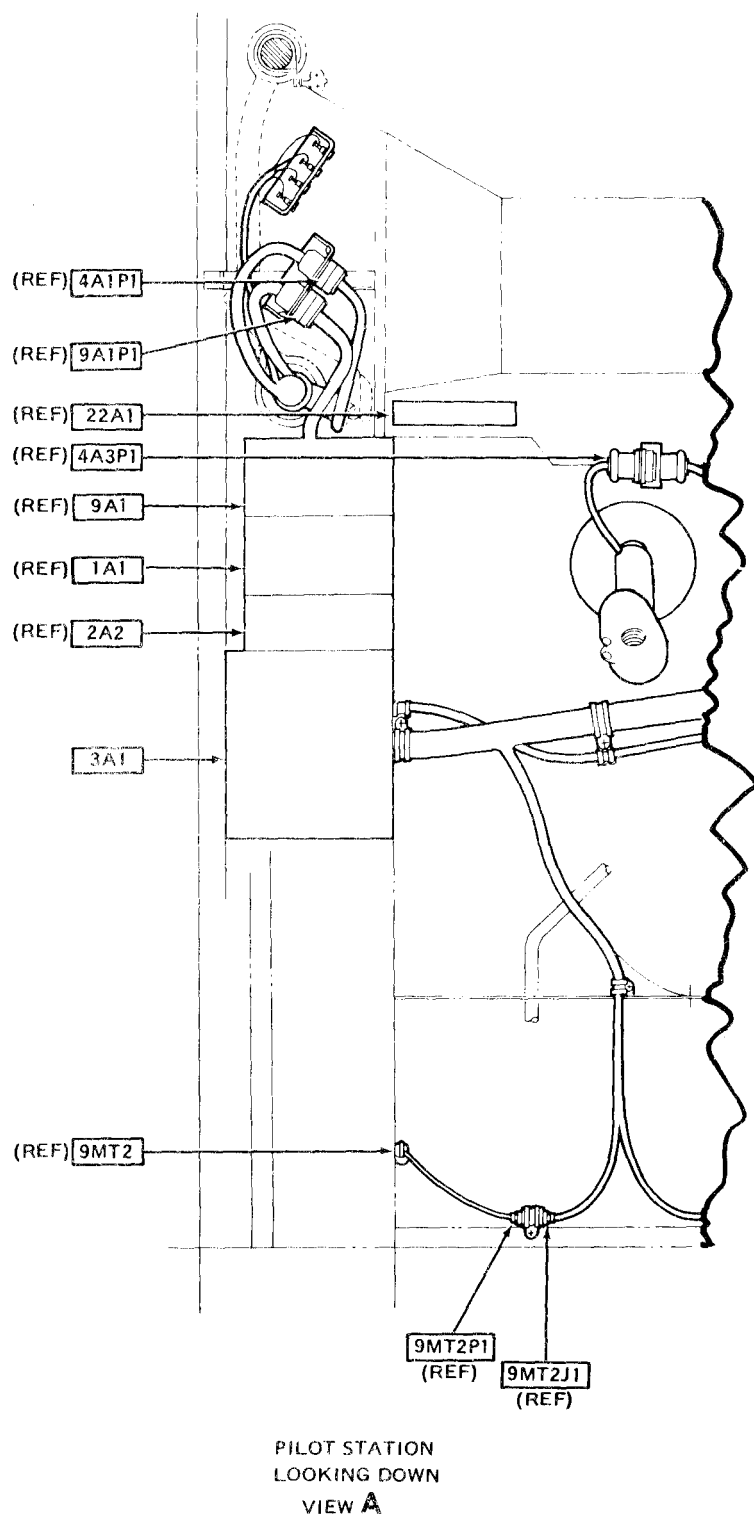
Universal Turret Subsystem (Equipment Location) (Sheet 15 of 15)

F-381/(F-382 blank)



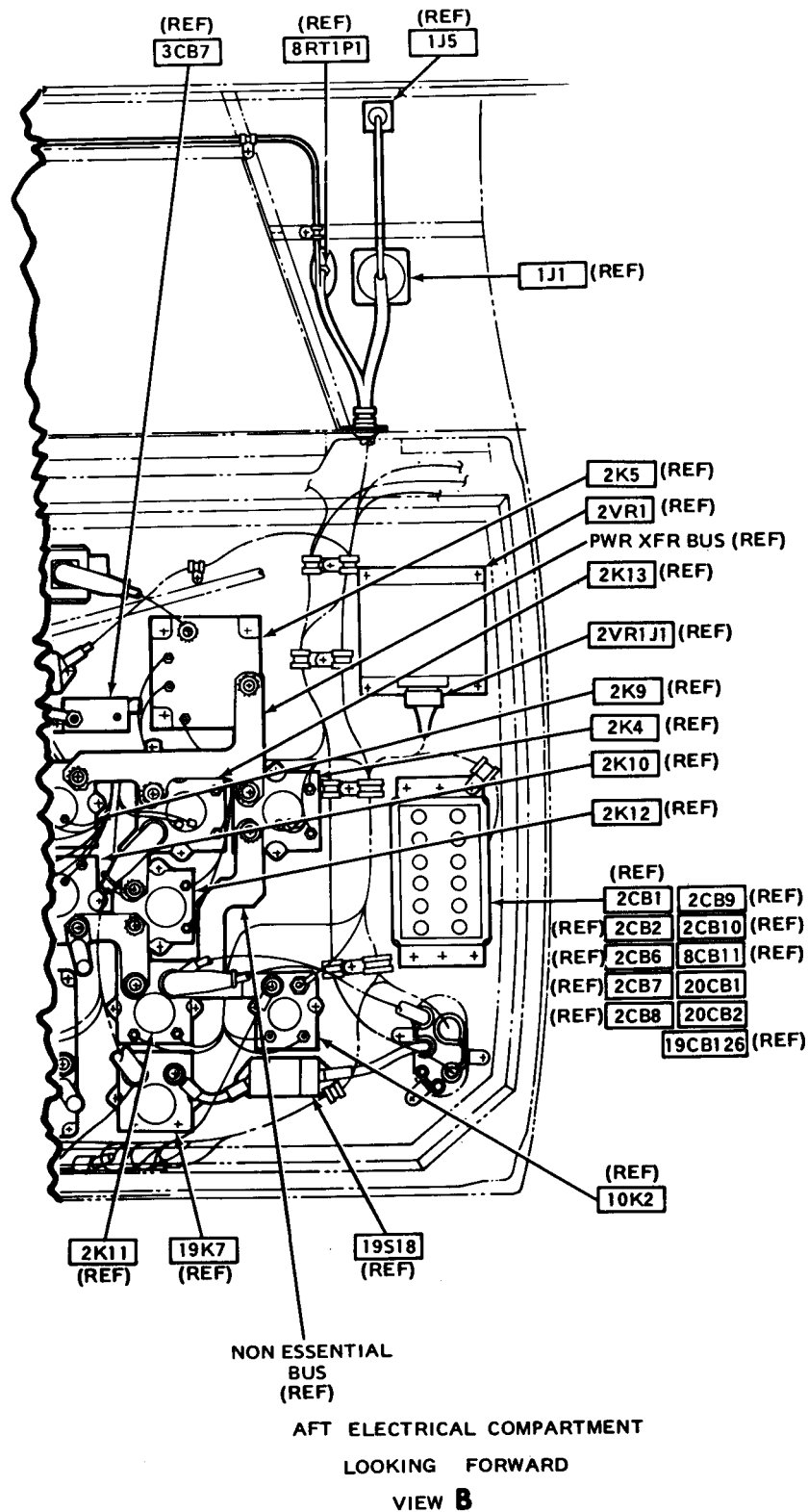
209475-487-1

Figure F-73. **M** TOW Missile Armament Subsystem (Equipment Location) (Sheet 1 of 16)



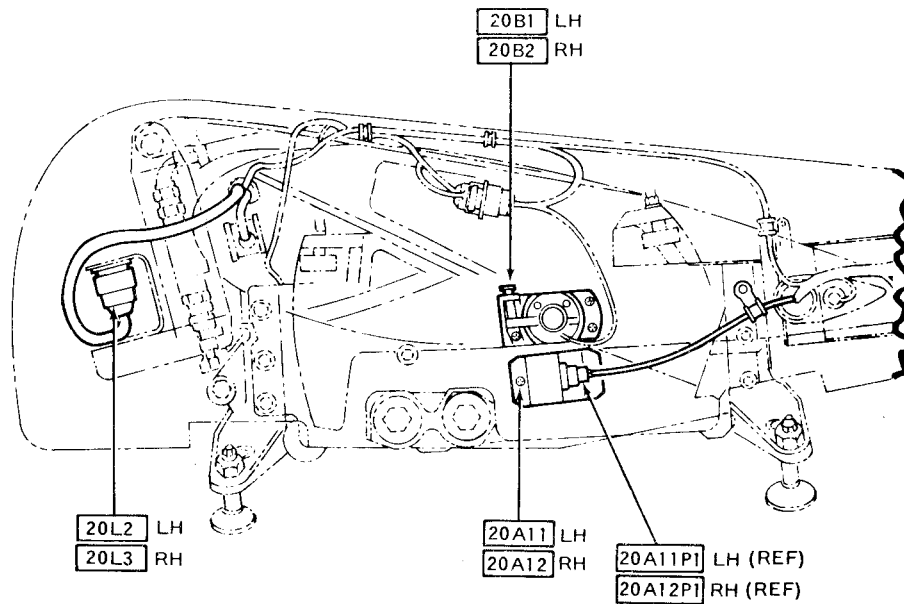
209475-487-2

Figure F-73.  TOW Missile Armament Subsystem (Equipment Location) (Sheet 2 of 16)



209475-487-3

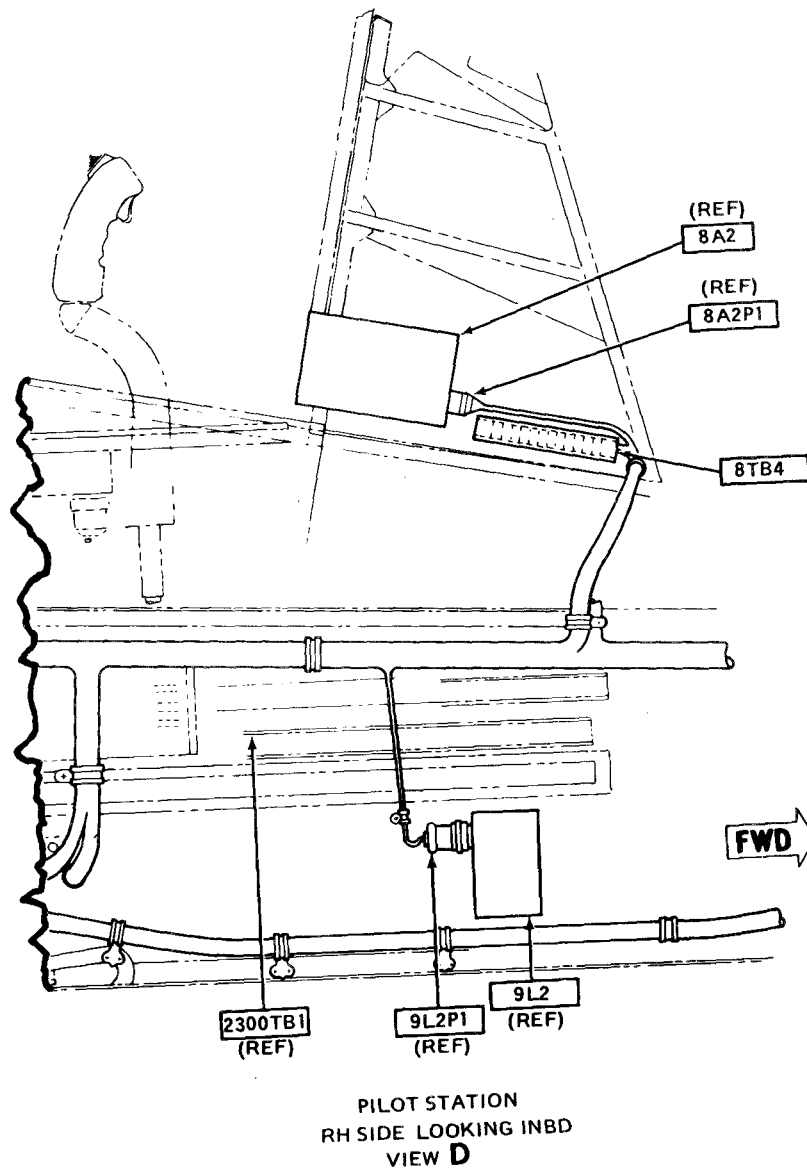
Figure F-73. **M** TOW Missile Armament Subsystem (Equipment Location) (Sheet 3 of 16)



WING TIP LOOKING INBD
VIEW C

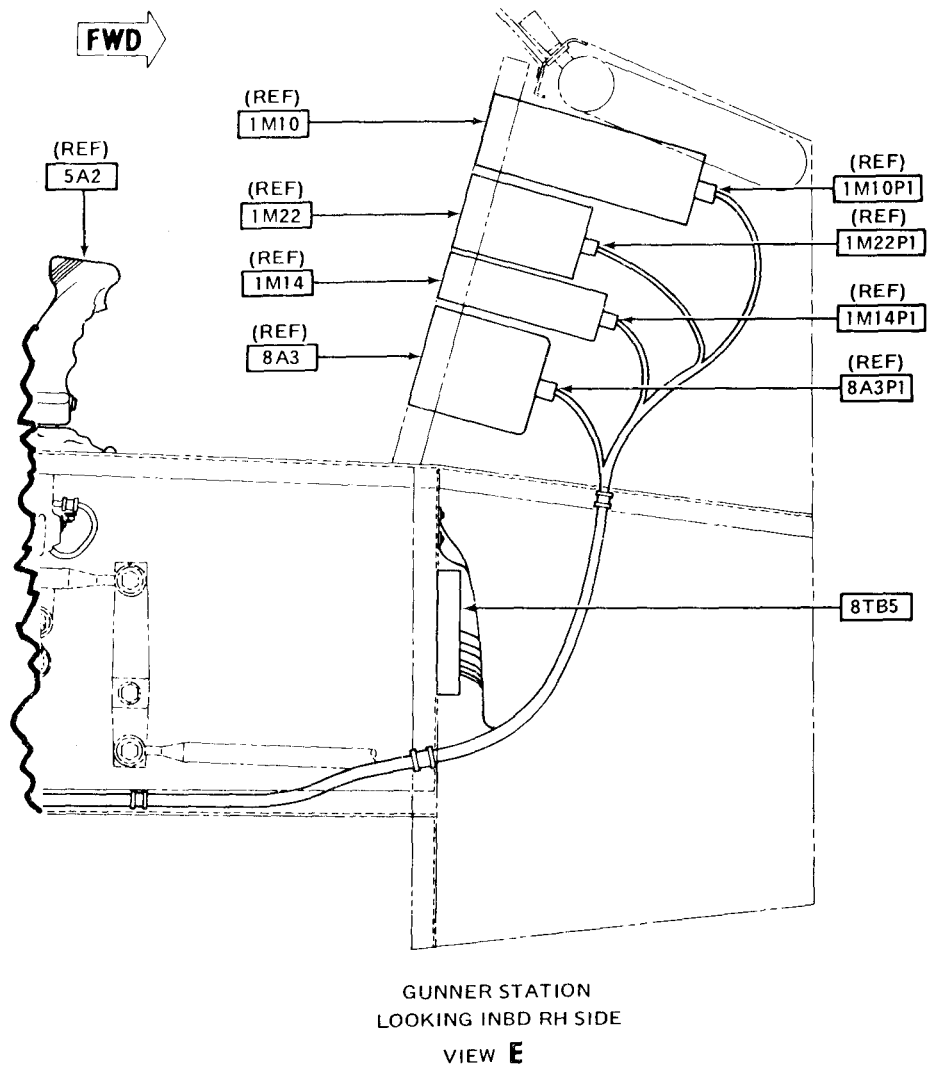
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Figure F-73. **M** TOW Missile Armament Subsystem (Equipment Location) (Sheet 4 of 16)



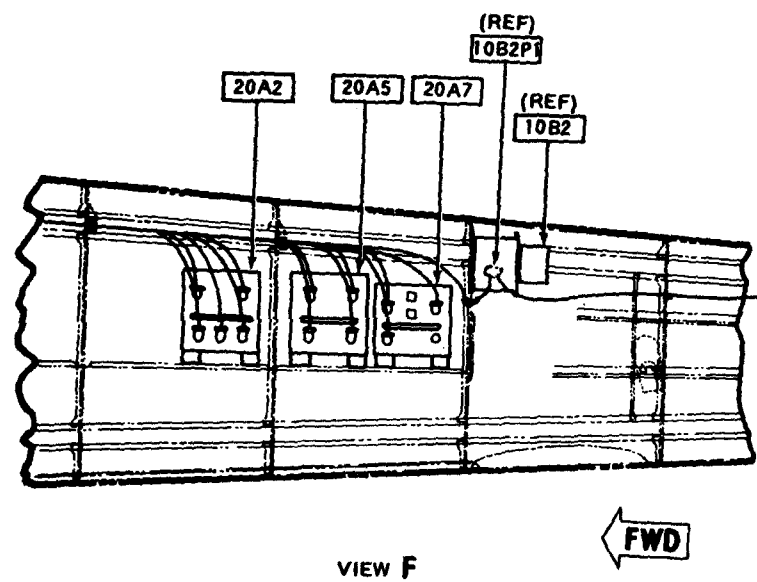
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Figure F-73. **M** TOW Missile Armament Subsystem (Equipment Location) (Sheet 5 of 16)



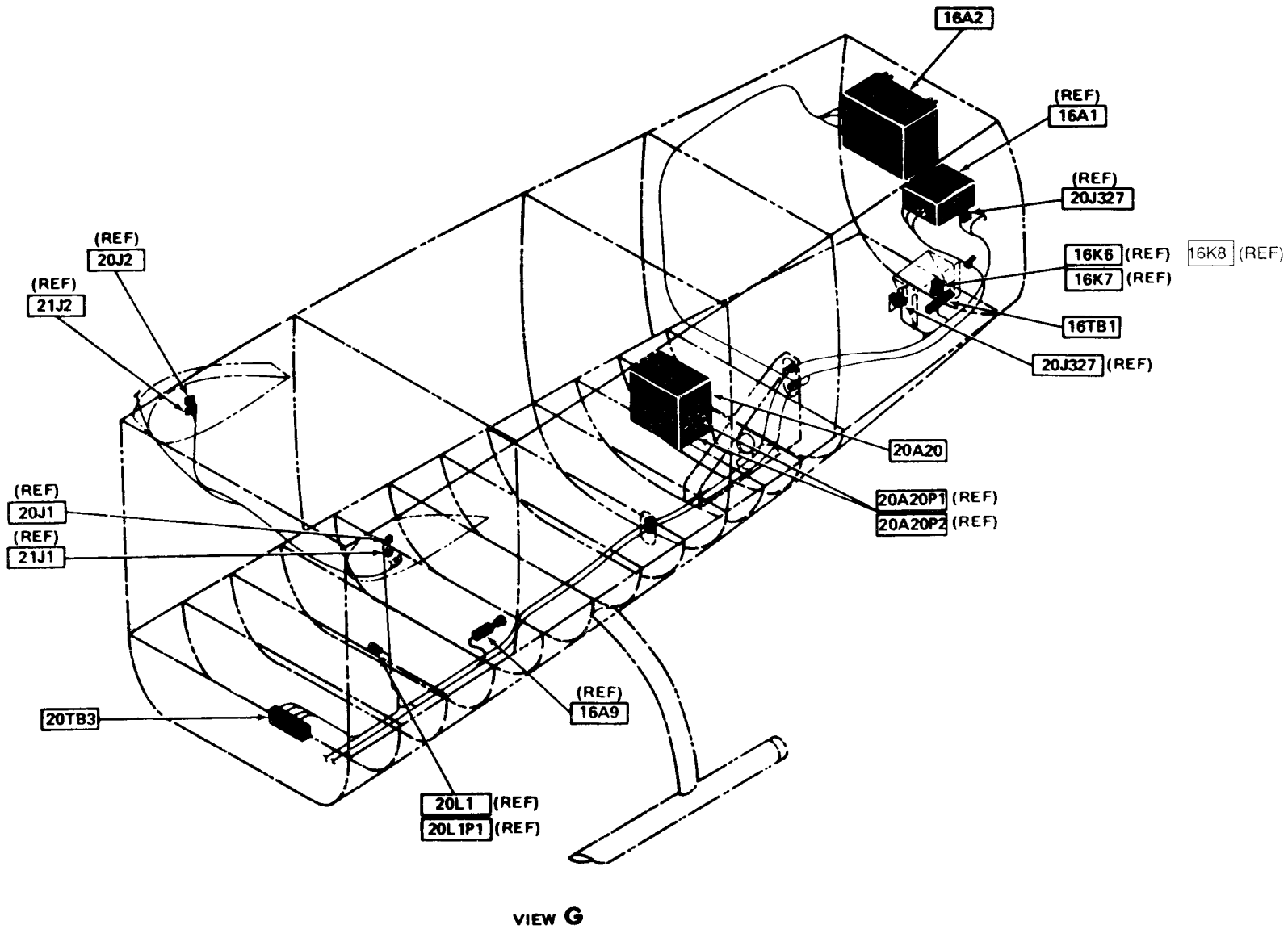
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Figure F-73. **M** TOW Missile Armament Subsystem (Equipment Location) (Sheet 6 of 16)



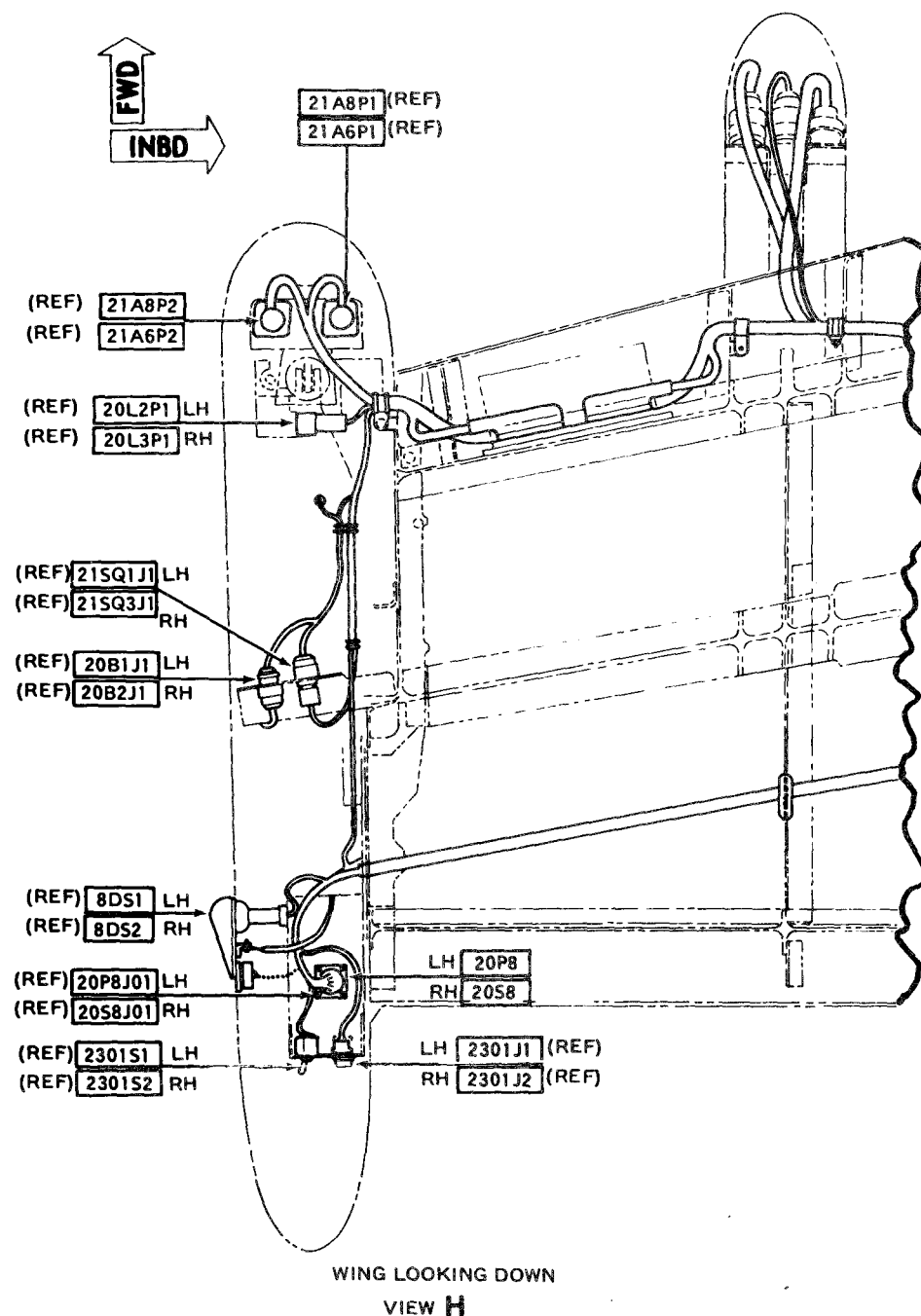
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Figure F-73. **M** TOW Missile Armament Subsystem (Equipment Location) (Sheet 7 of 16)



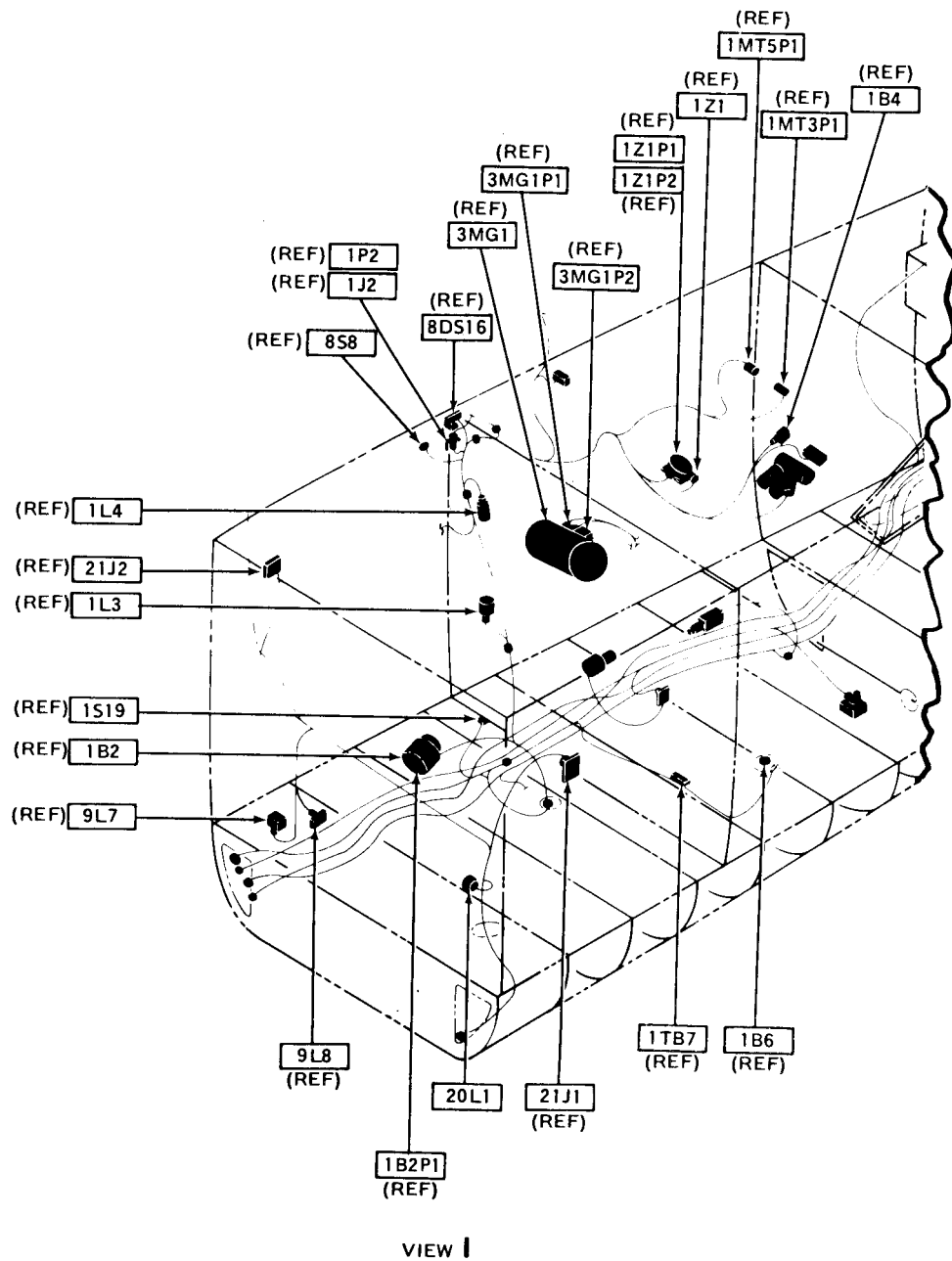
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Figure F-73. **M** TOW Missile Armament Subsystem (Equipment Location) (Sheet 8 of 16)



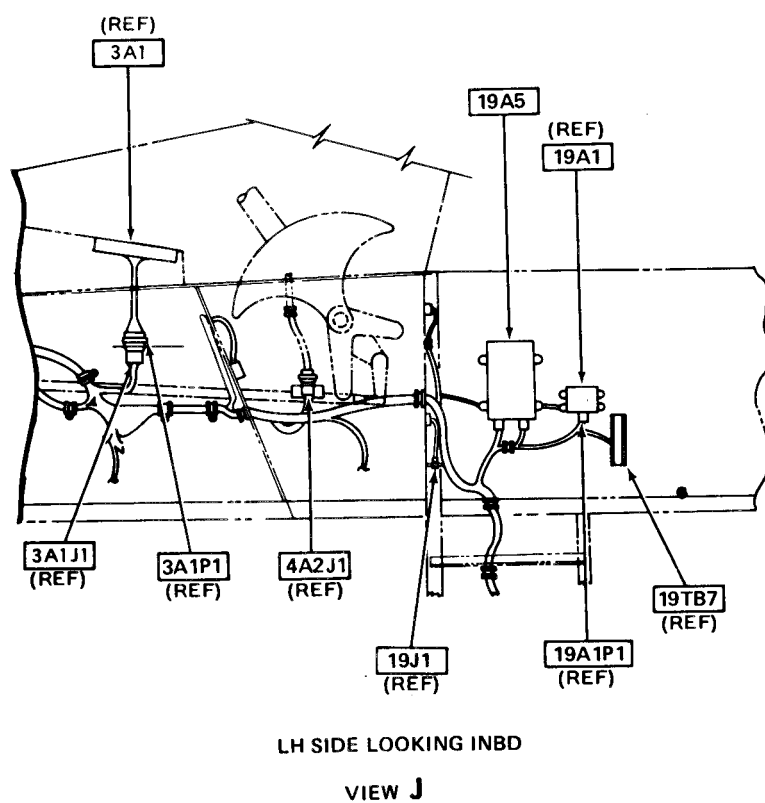
209475-487-9

Figure F-73. **M** TOW Missile Armament Subsystem (Equipment Location) (Sheet 9 of 16)



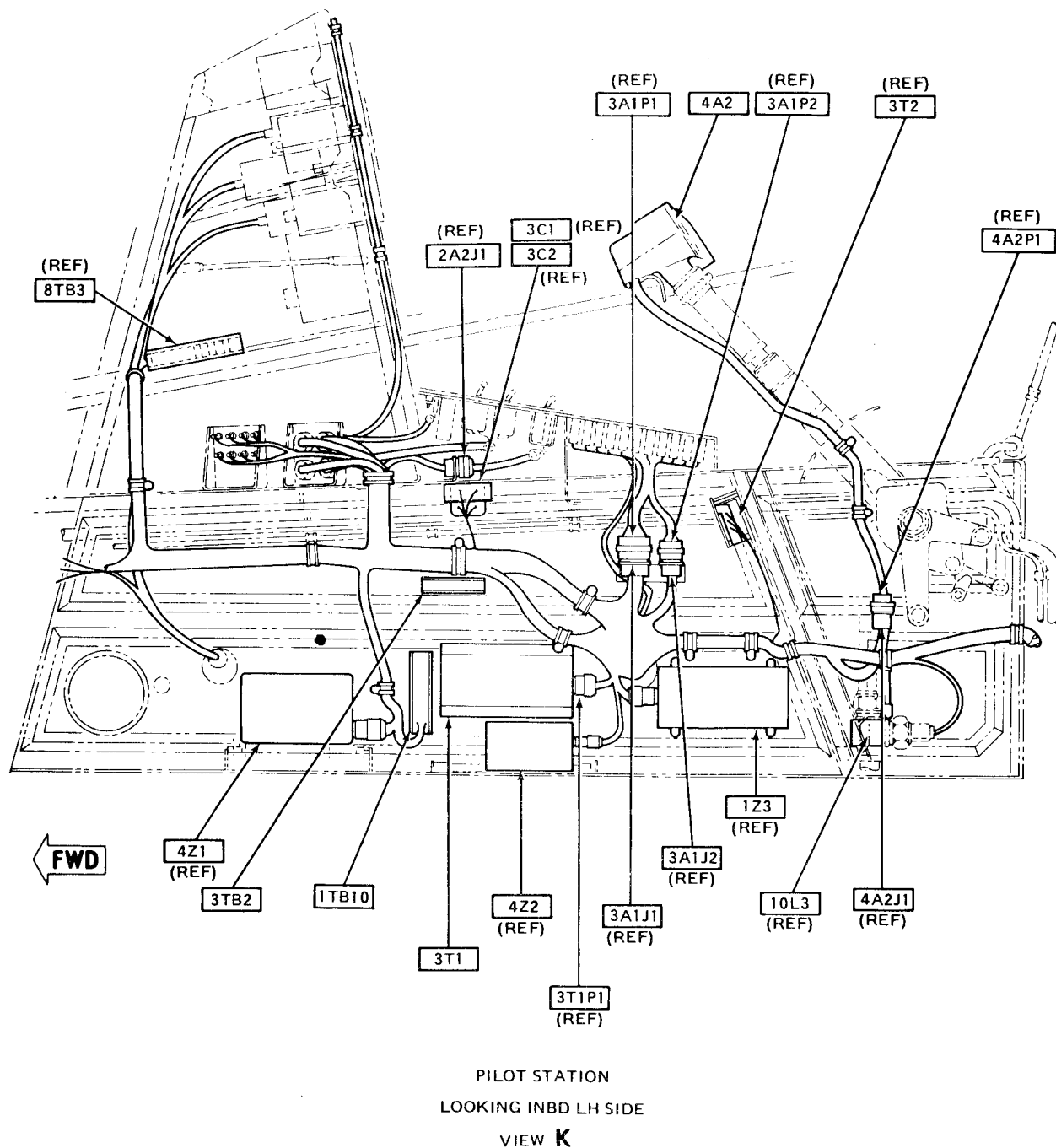
209475-487-10

Figure F-73. **M** TOW Missile Armament Subsystem (Equipment Location) (Sheet 10 of 16)



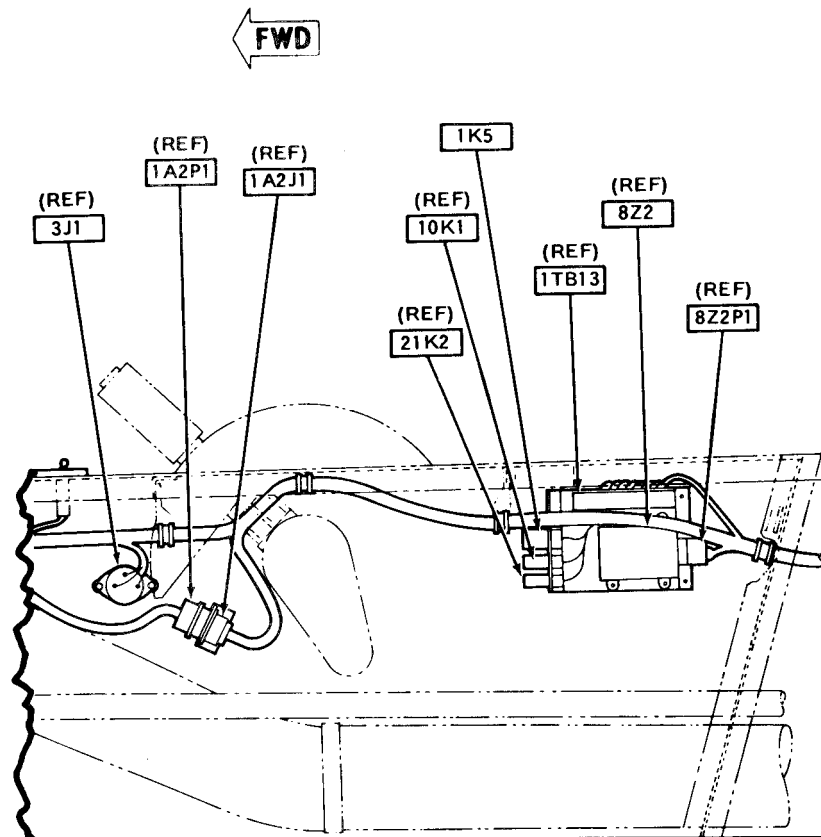
209475-487-11

Figure F-73. **M** TOW Missile Armament Subsystem (Equipment Location) (Sheet 11 of 16)



209475-487-12

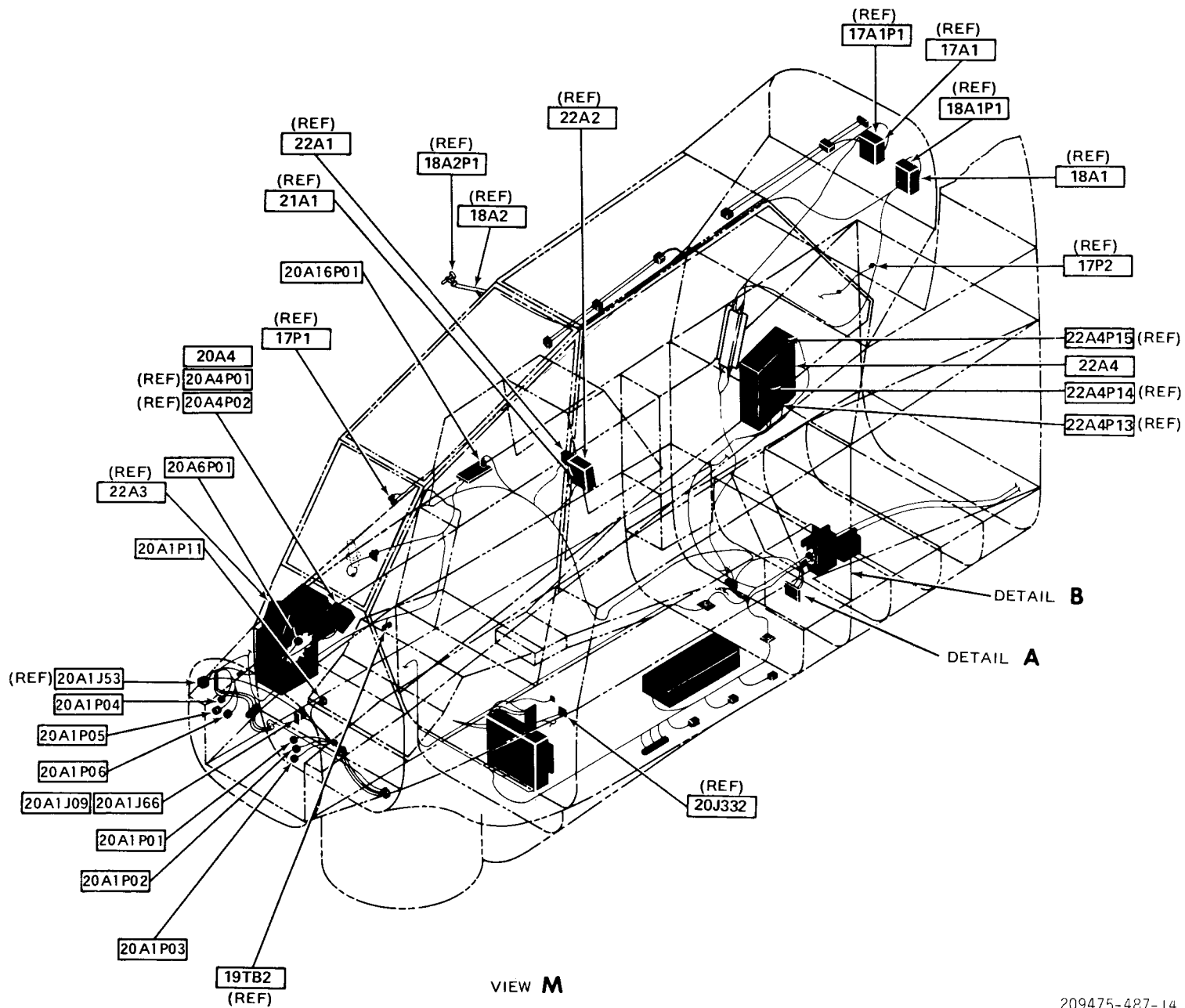
Figure F-73. **M** TOW Missile Armament Subsystem (Equipment Location) (Sheet 12 of 16)



GUNNER STATION
LOOKING INBD LH SIDE
VIEW L

209475-487-13

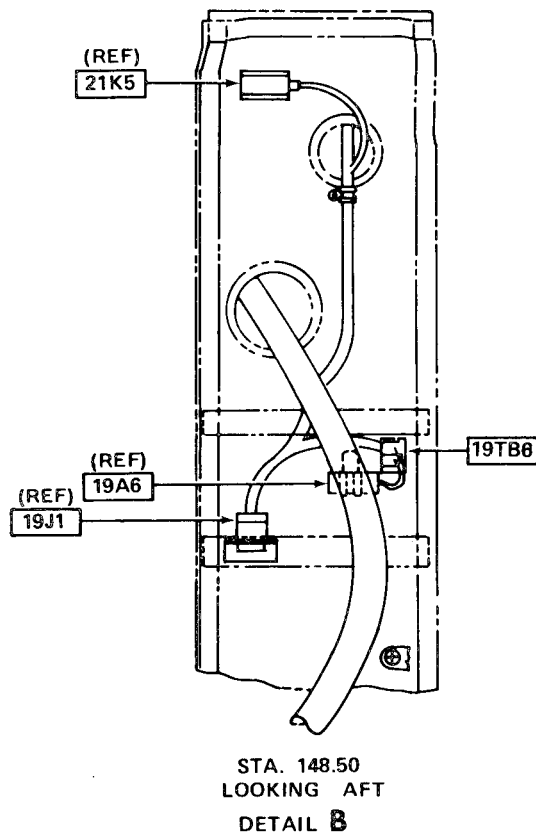
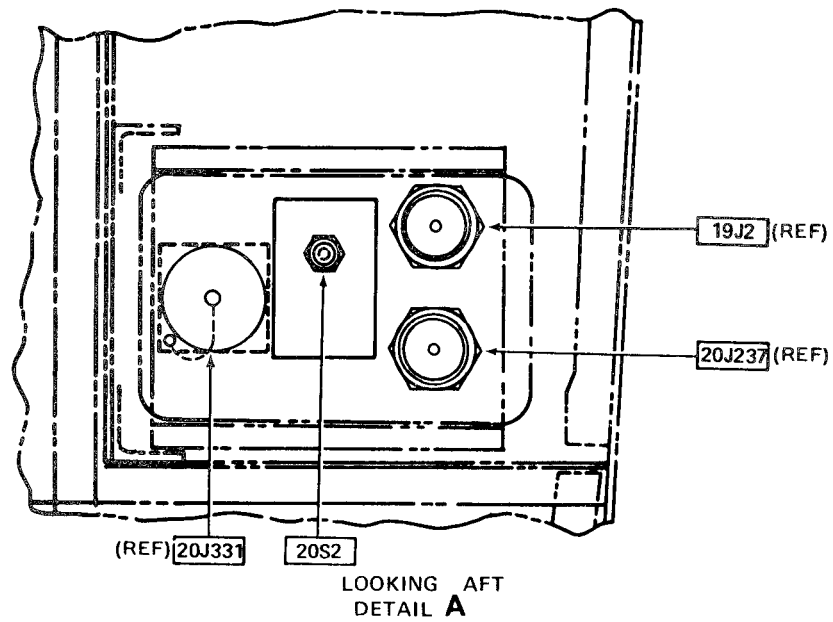
Figure F-73. **M** TOW Missile Armament Subsystem (Equipment Location) (Sheet 33 of 16)



209475-487-14

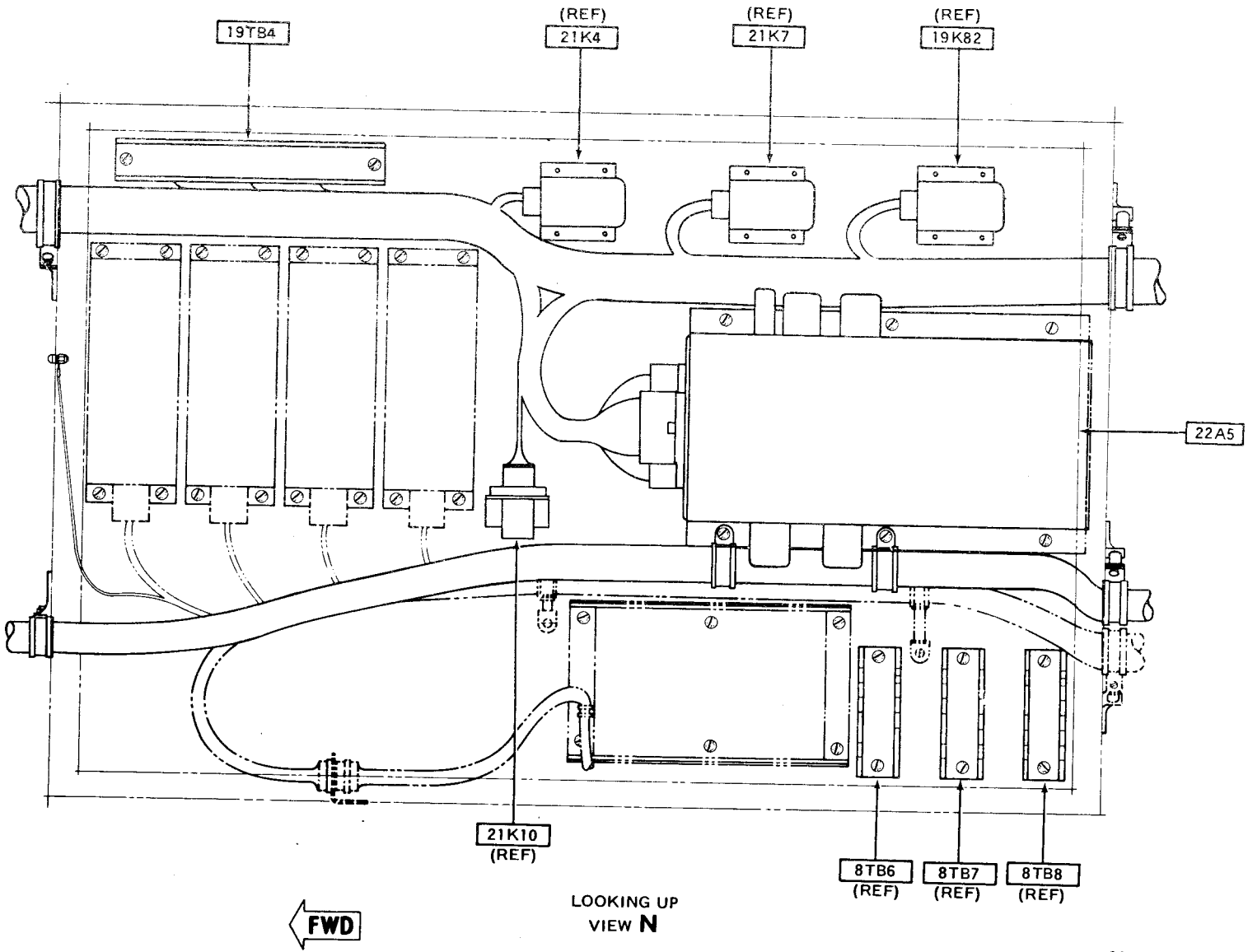
Figure F-73. **M**

TOW Missile Armament Subsystem (Equipment Location) (Sheet 14 of 16)



209475-487-15

Figure F-73. **M** TOW Missile Armament Subsystem (Equipment Location) (Sheet 15 of 16)



209475-487-16

Figure F-73. **M** TOW Missile Armament Subsystem (Equipment Location) (Sheet 16 of 16)

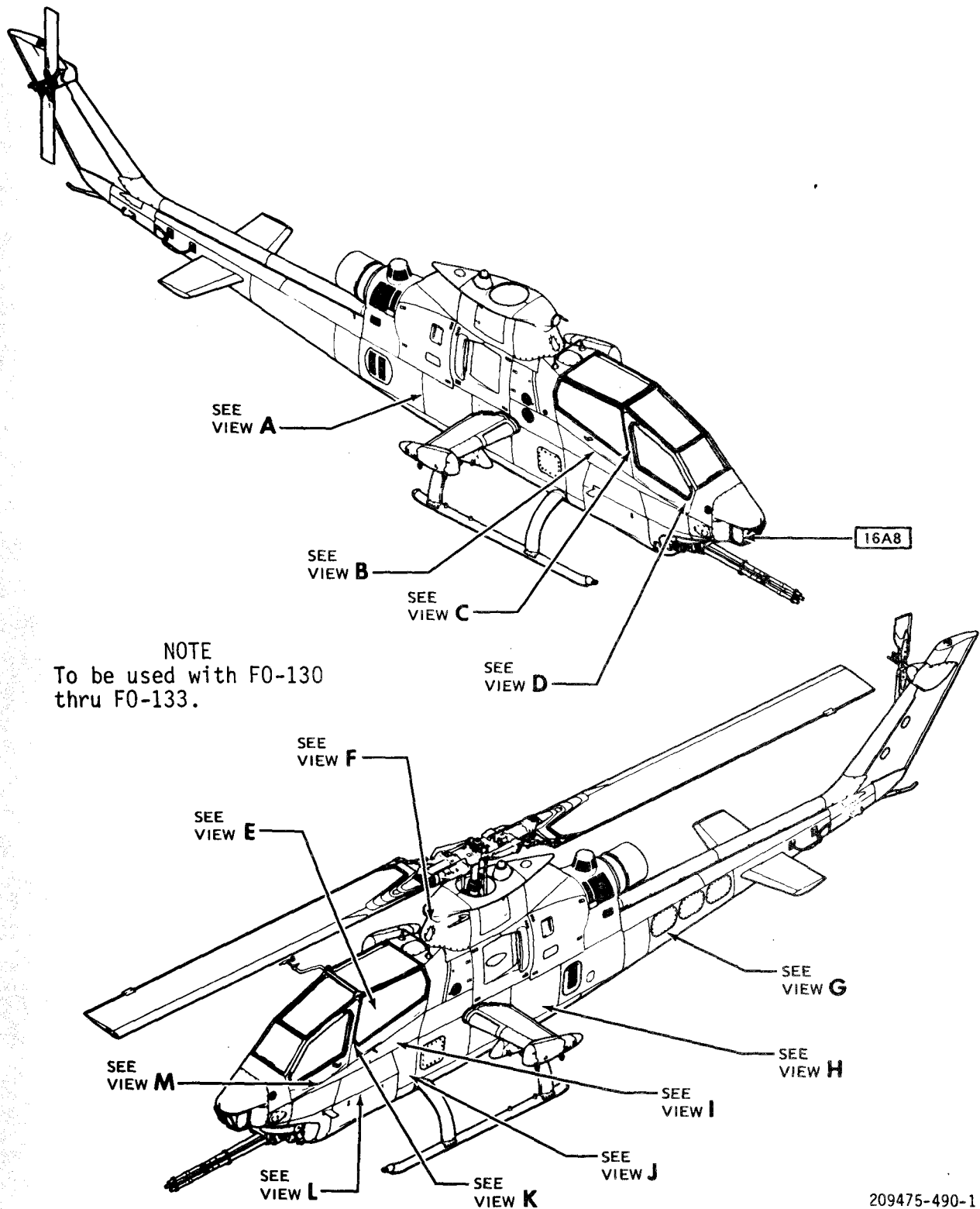


Figure F-74. Fire Control System (Equipment Location) (Sheet 1 of 14)

M

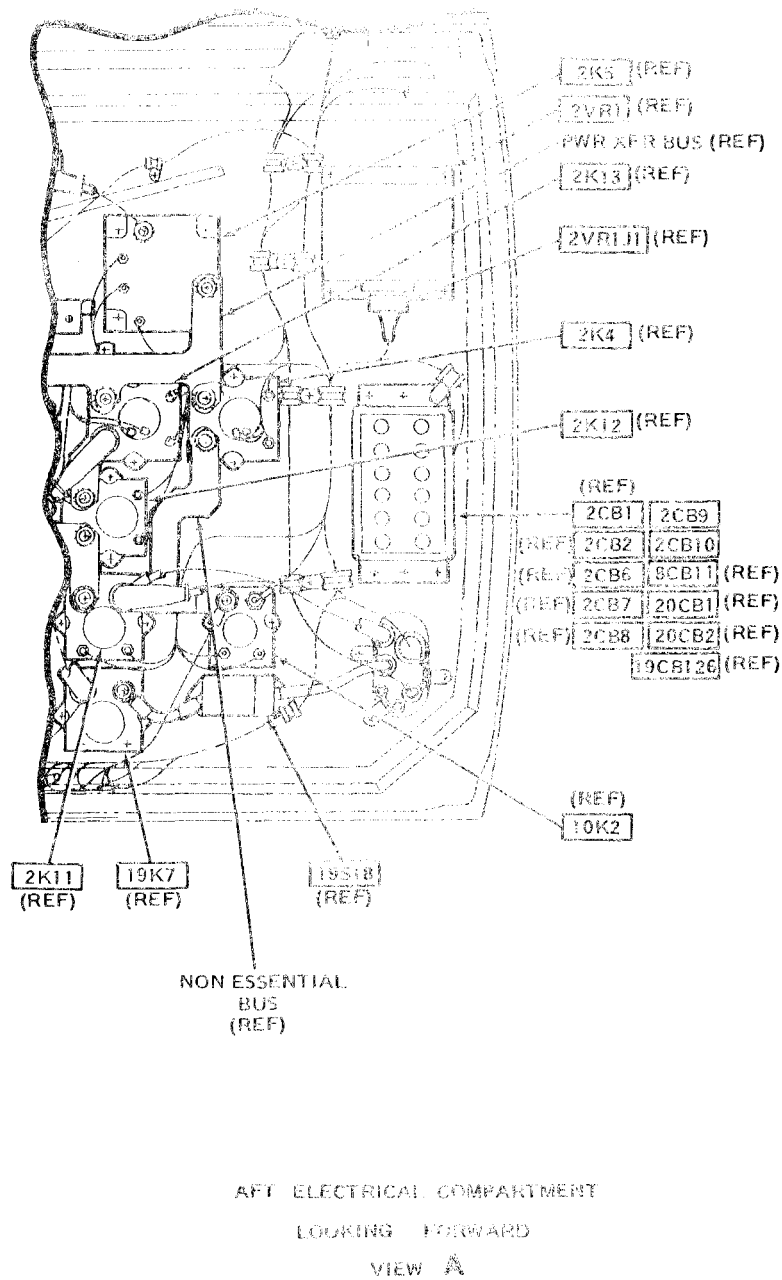
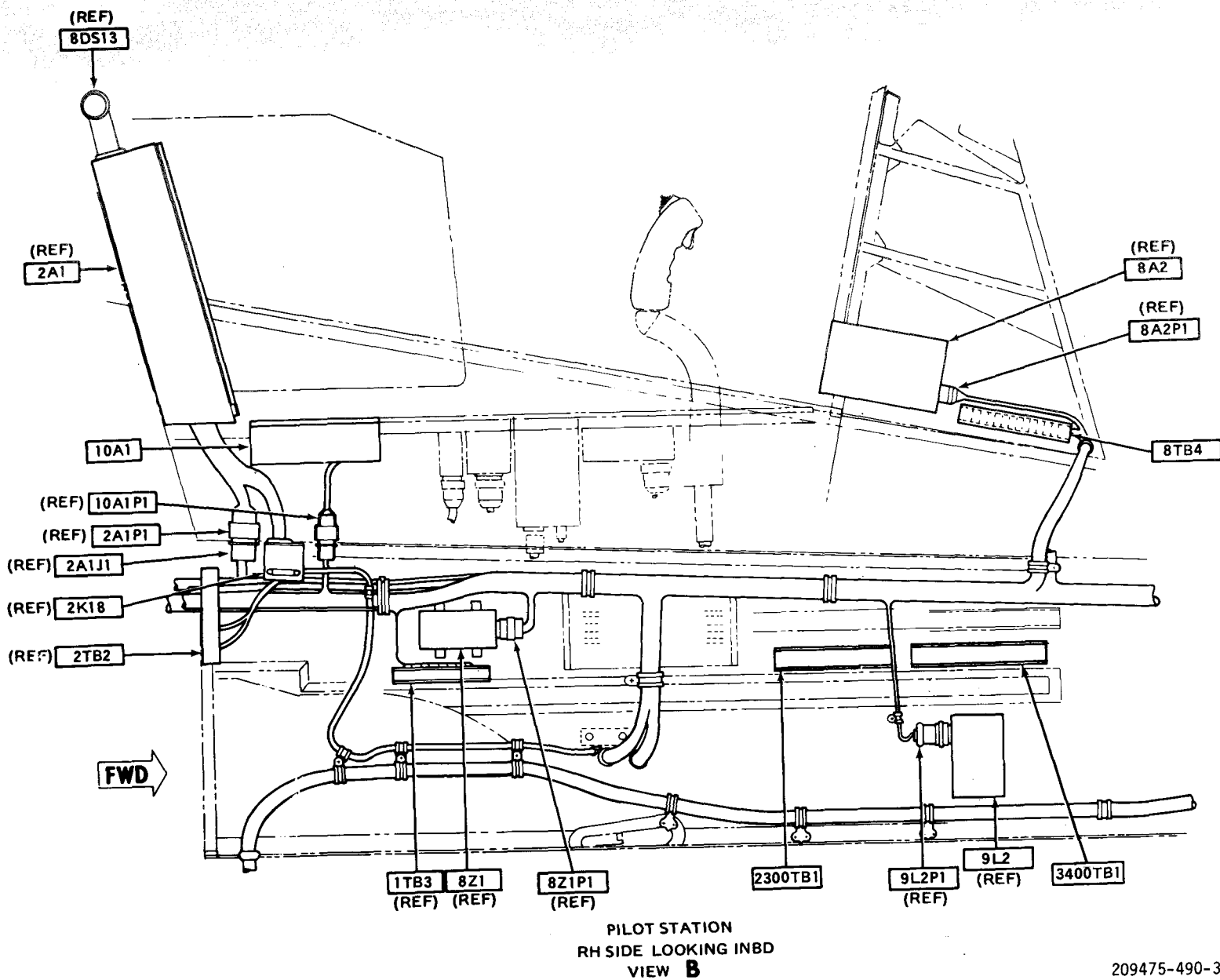


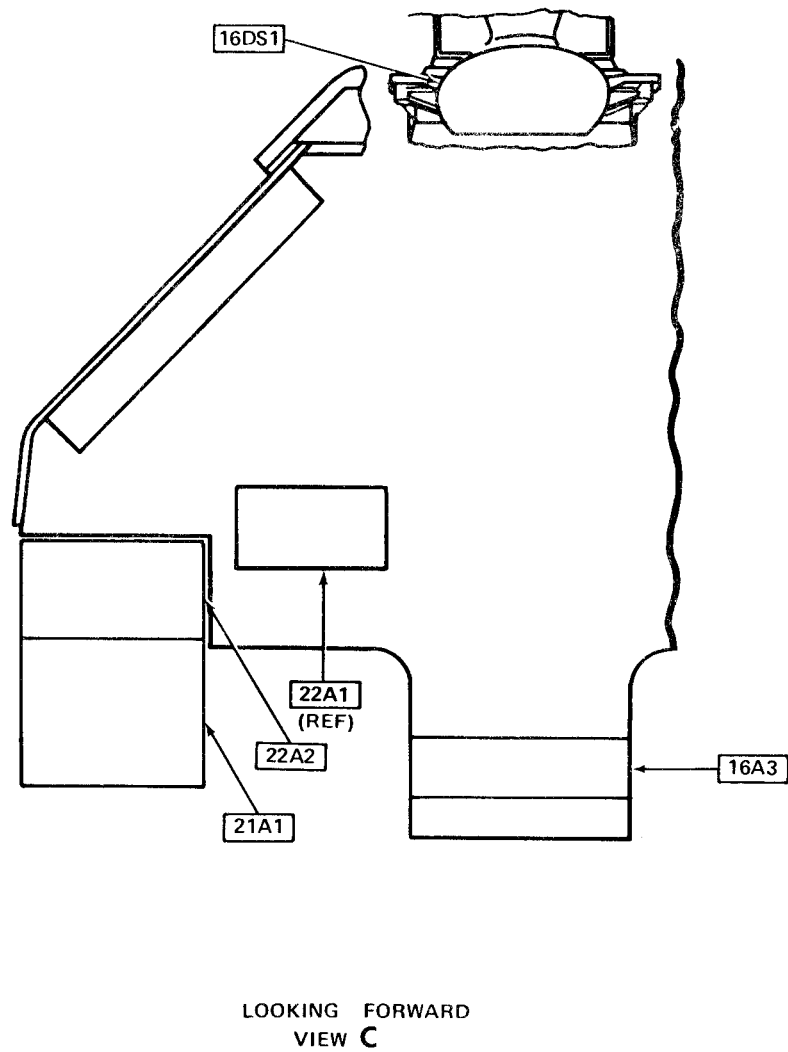
Figure F-74.  Fire Control System (Equipment Location) (Sheet 2 of 14)



209475-490-3

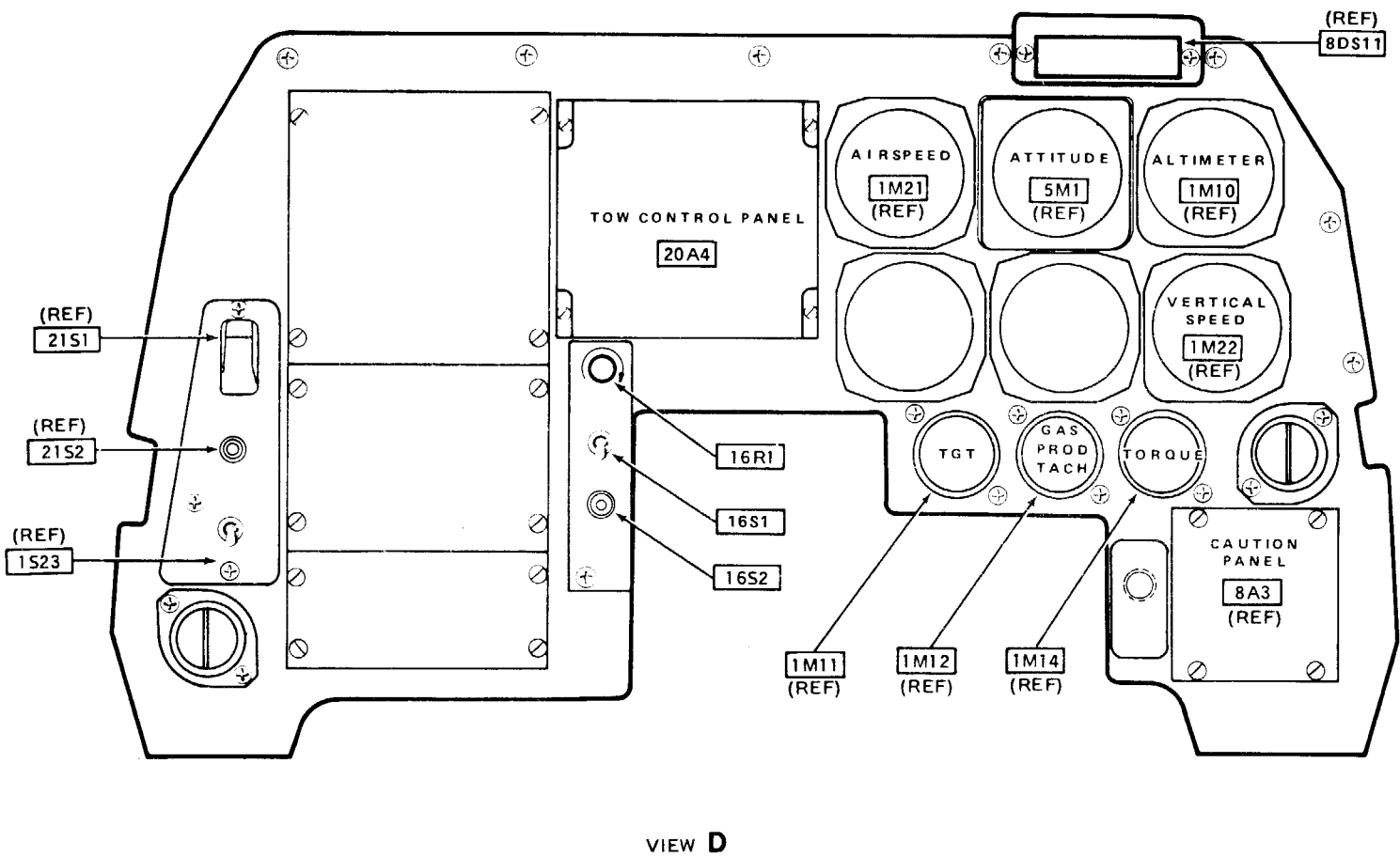
Figure F-74.

M Fire Control System (Equipment Location) (Sheet 3 of 14)



209475-490-4

Figure F-74. **M** Fire Control System (Equipment Location) (Sheet 4 of 14)



209475-490-5

Figure F-74. **M** Fire Control System (Equipment Location) (Sheet 5 of 14)

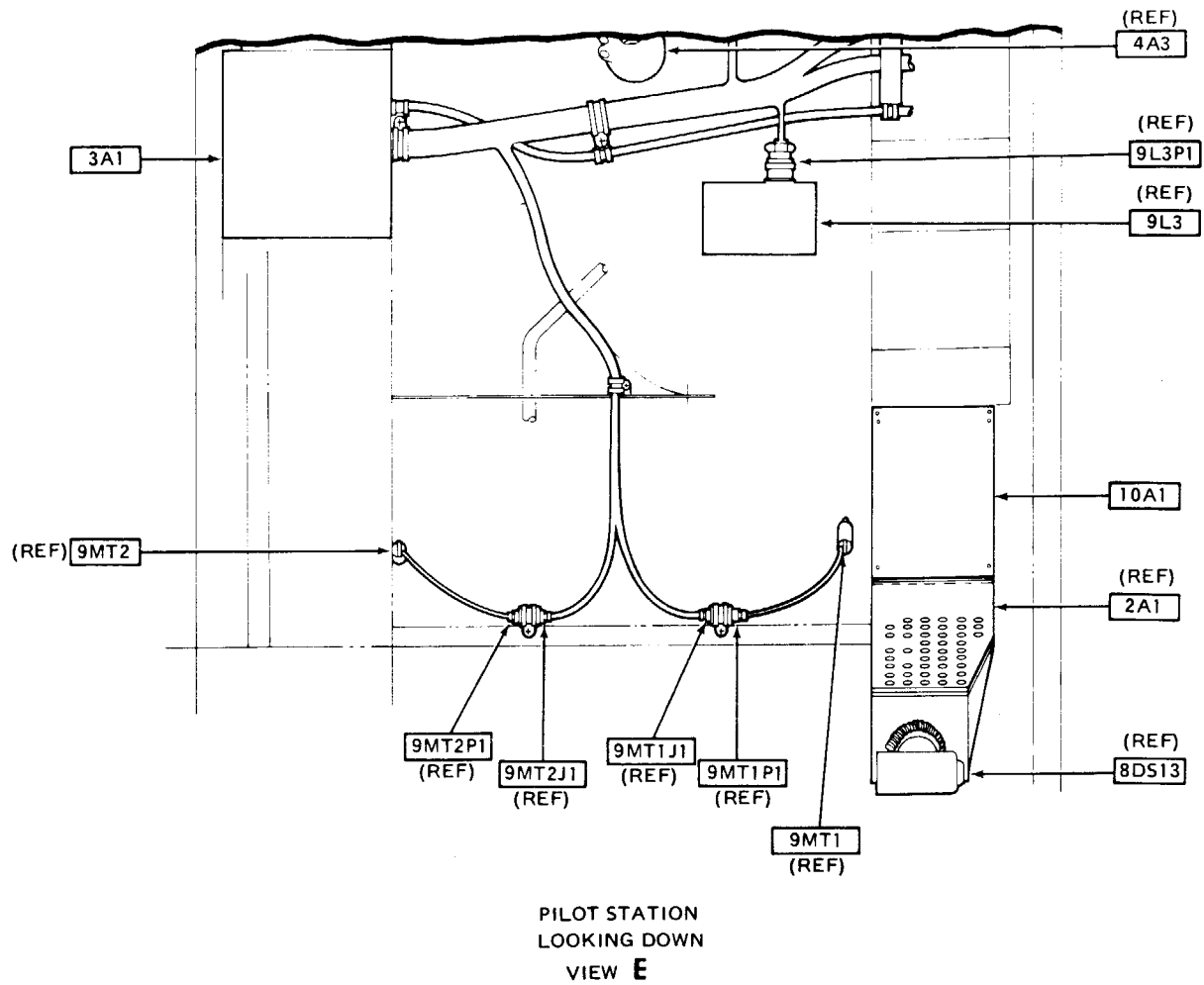
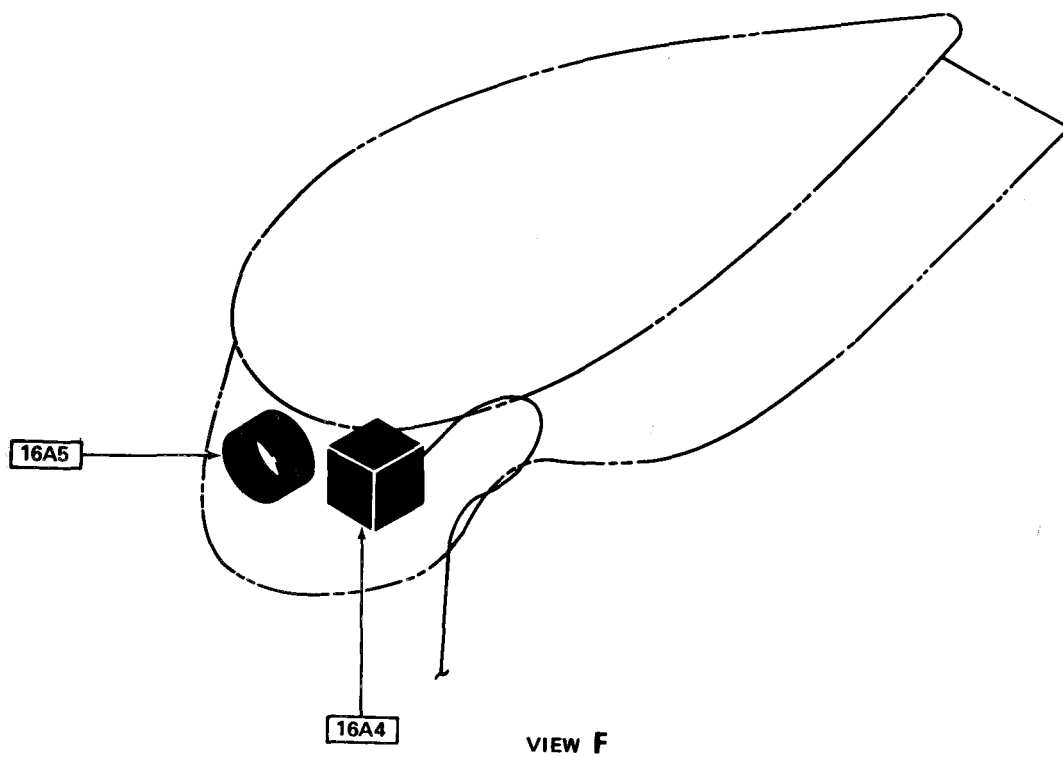


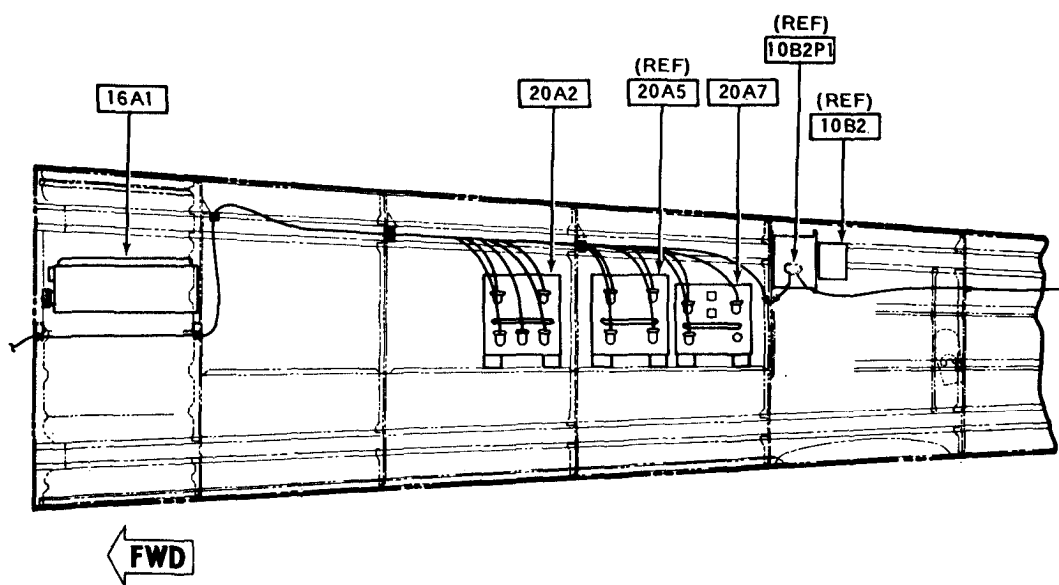
Figure F-74. **M** Fire Control System (Equipment Location) (Sheet 6 of 14)



209475-490-7

Figure F-74. Fire Control System (Equipment Location) (Sheet 7 of 14)

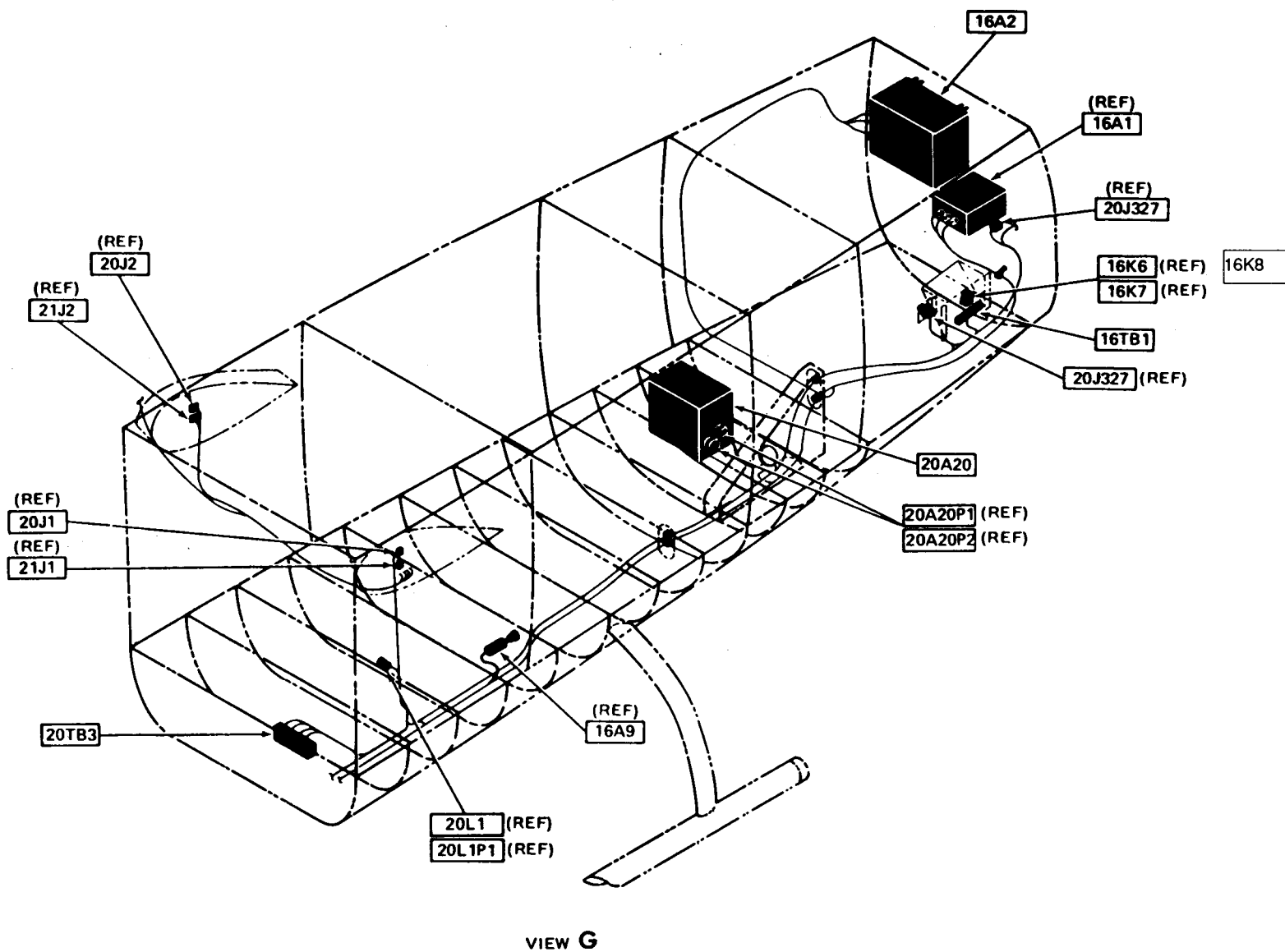
M



VIEW G

209475-490-8

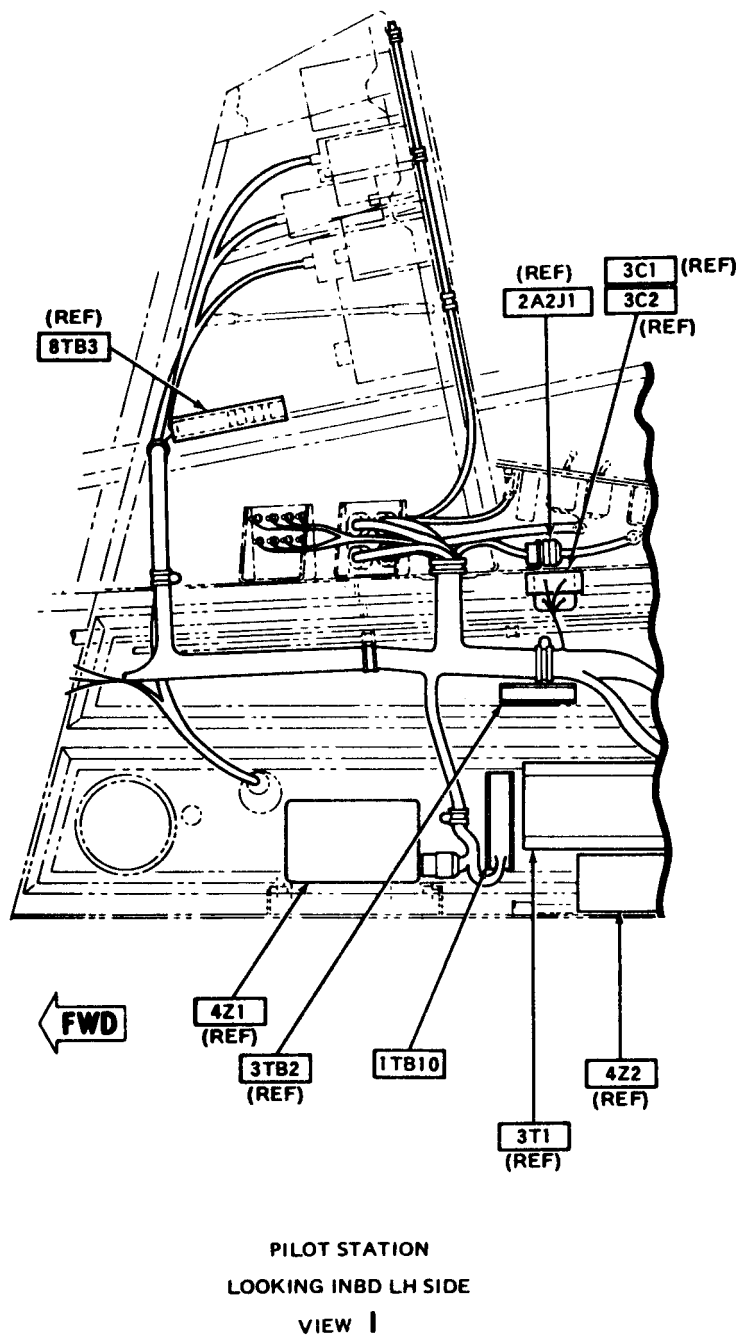
Figure F-74. **M** Fire Control System (Equipment Location) (Sheet 8 of 14)



209475-487-8

Figure F-73.

M TOW Missile Armament Subsystem (Equipment Location) (Sheet 8 of 16)
Change 13 F-407



209475-490-10

Figure F-74. **M** Fire Control System (Equipment Location) (Sheet 10 of 14)

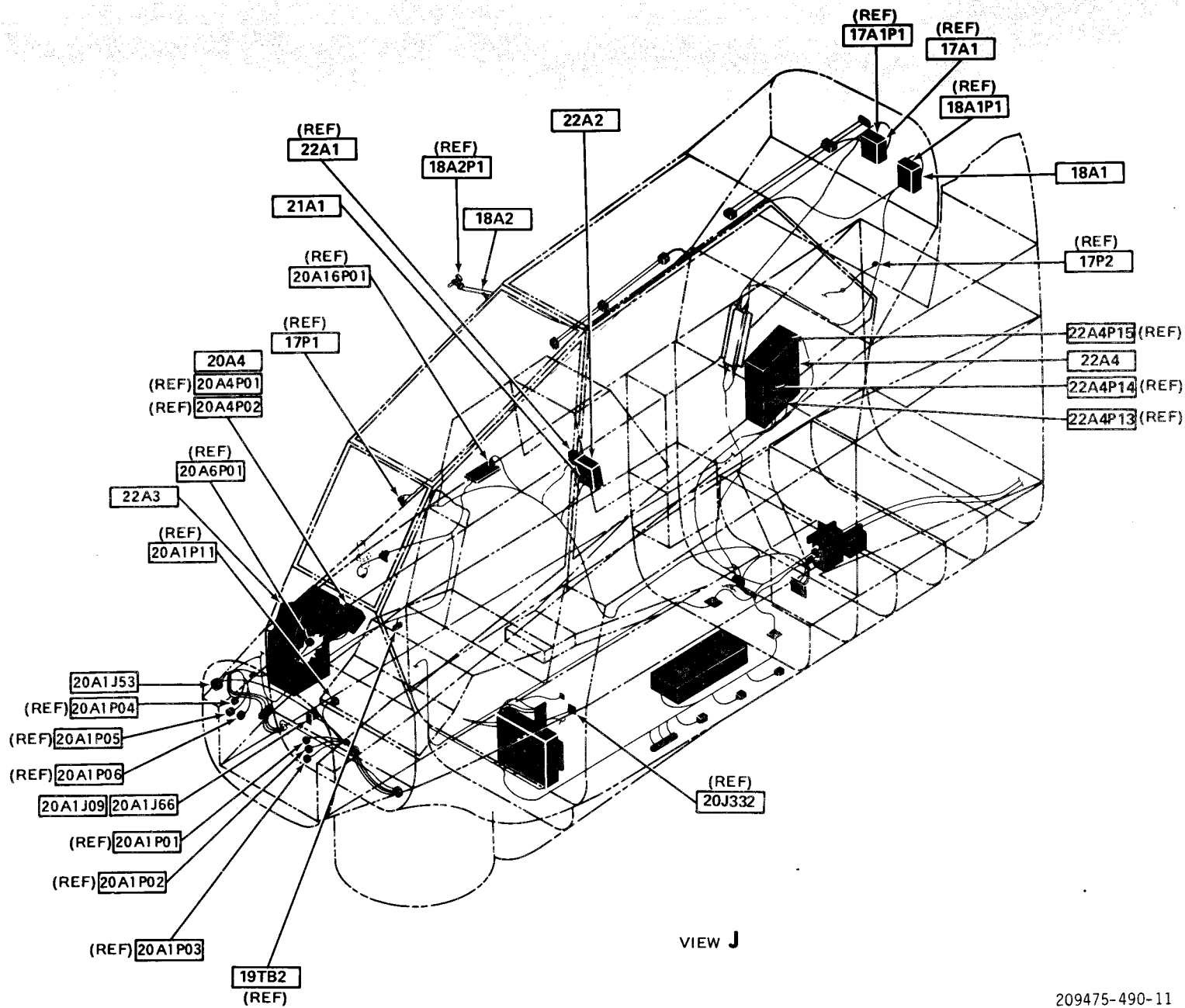
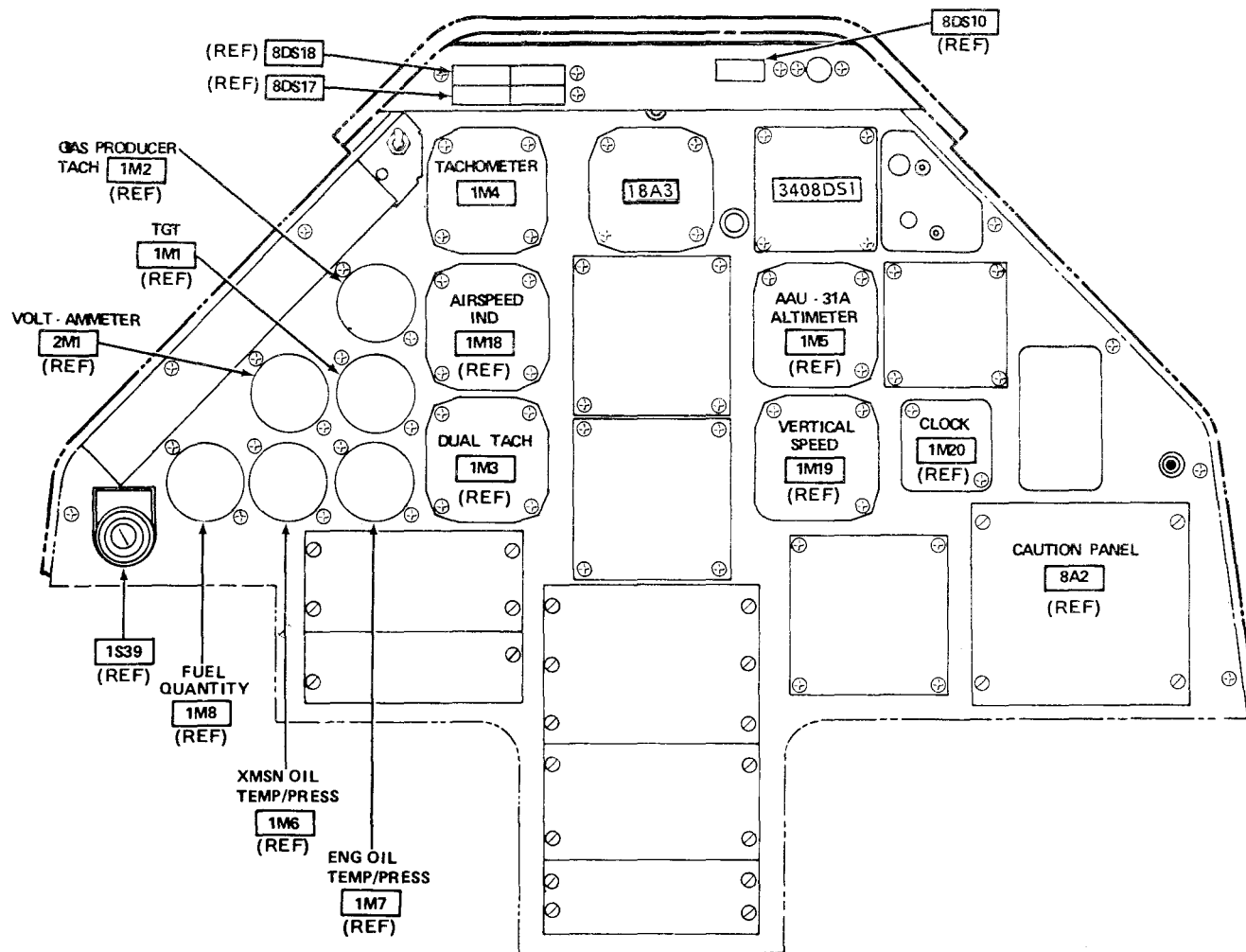
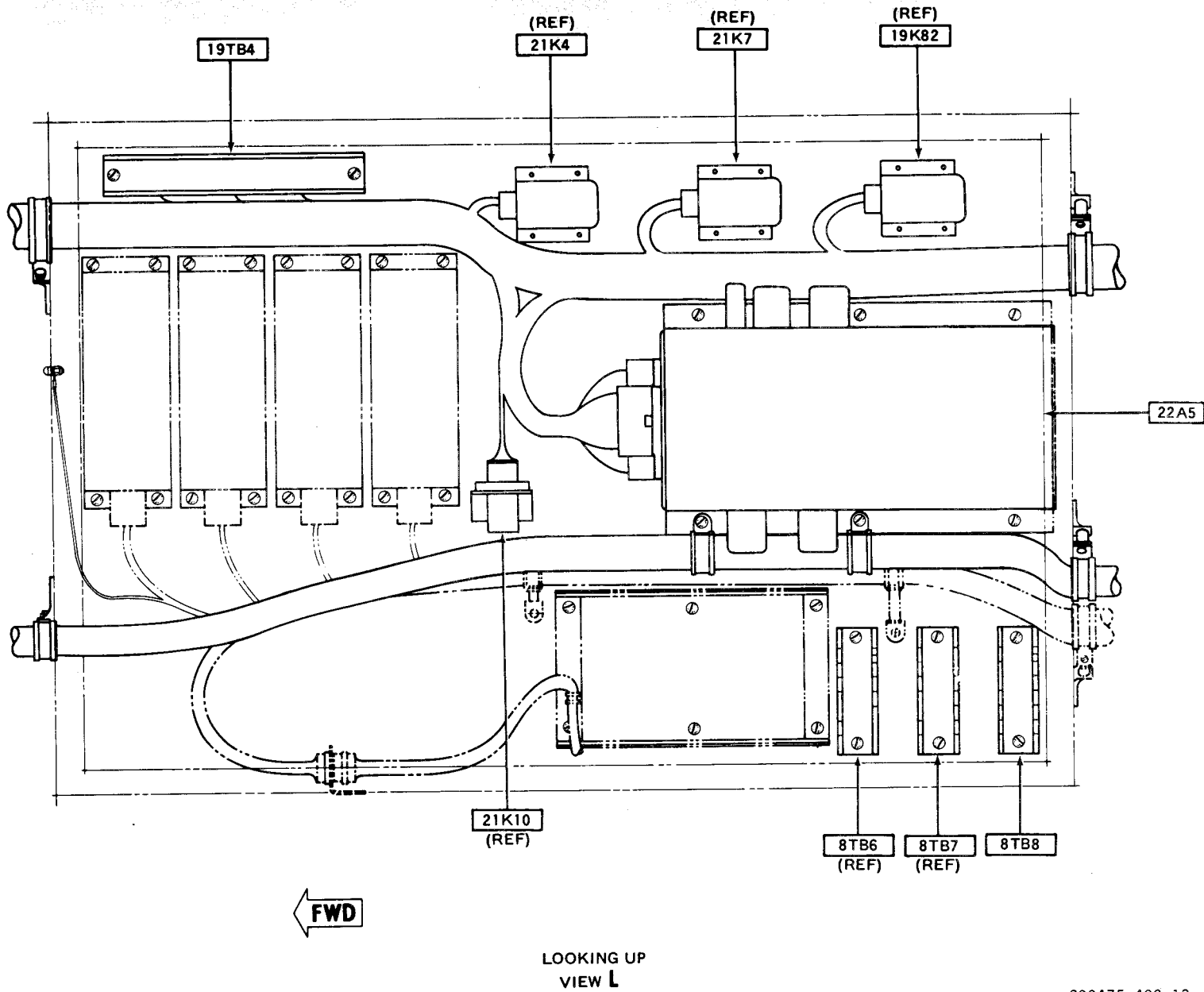


Figure F-74. **M** Fire Control System (Equipment Location) (Sheet 11 of 14)



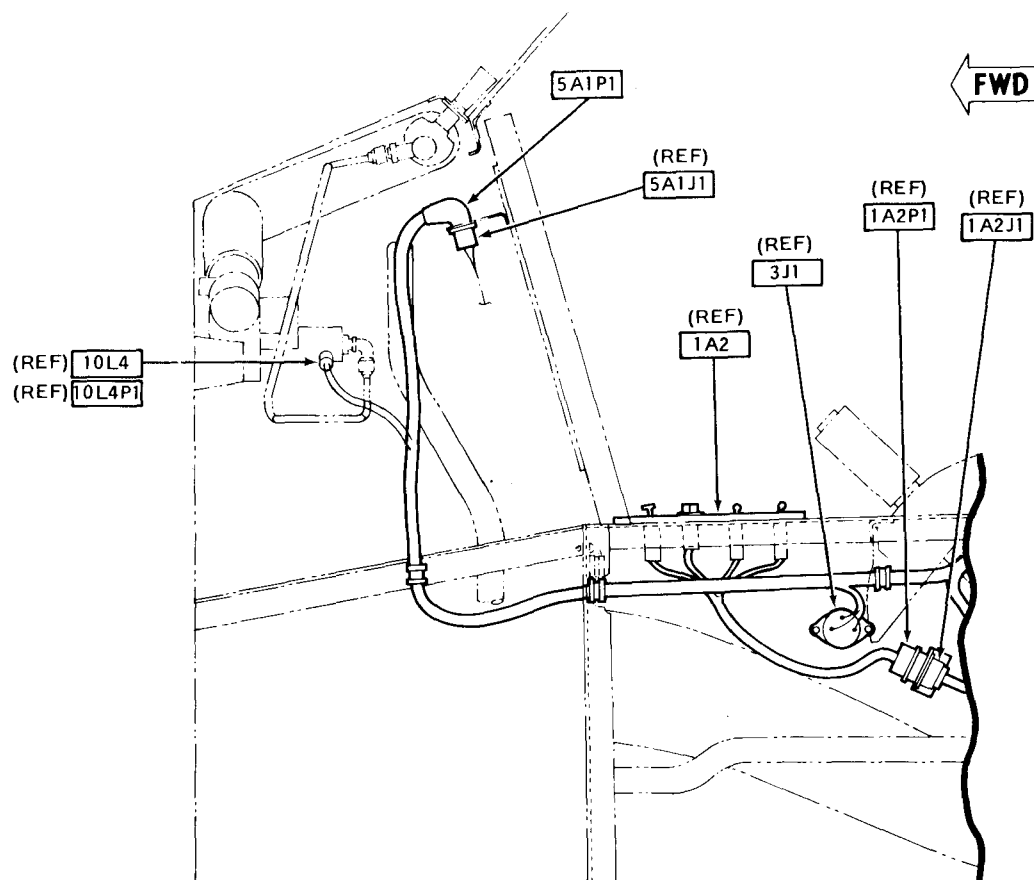
VIEW K

Figure F-74. Fire Control System (Equipment Location) (Sheet 12 of 14)



209475-490-13

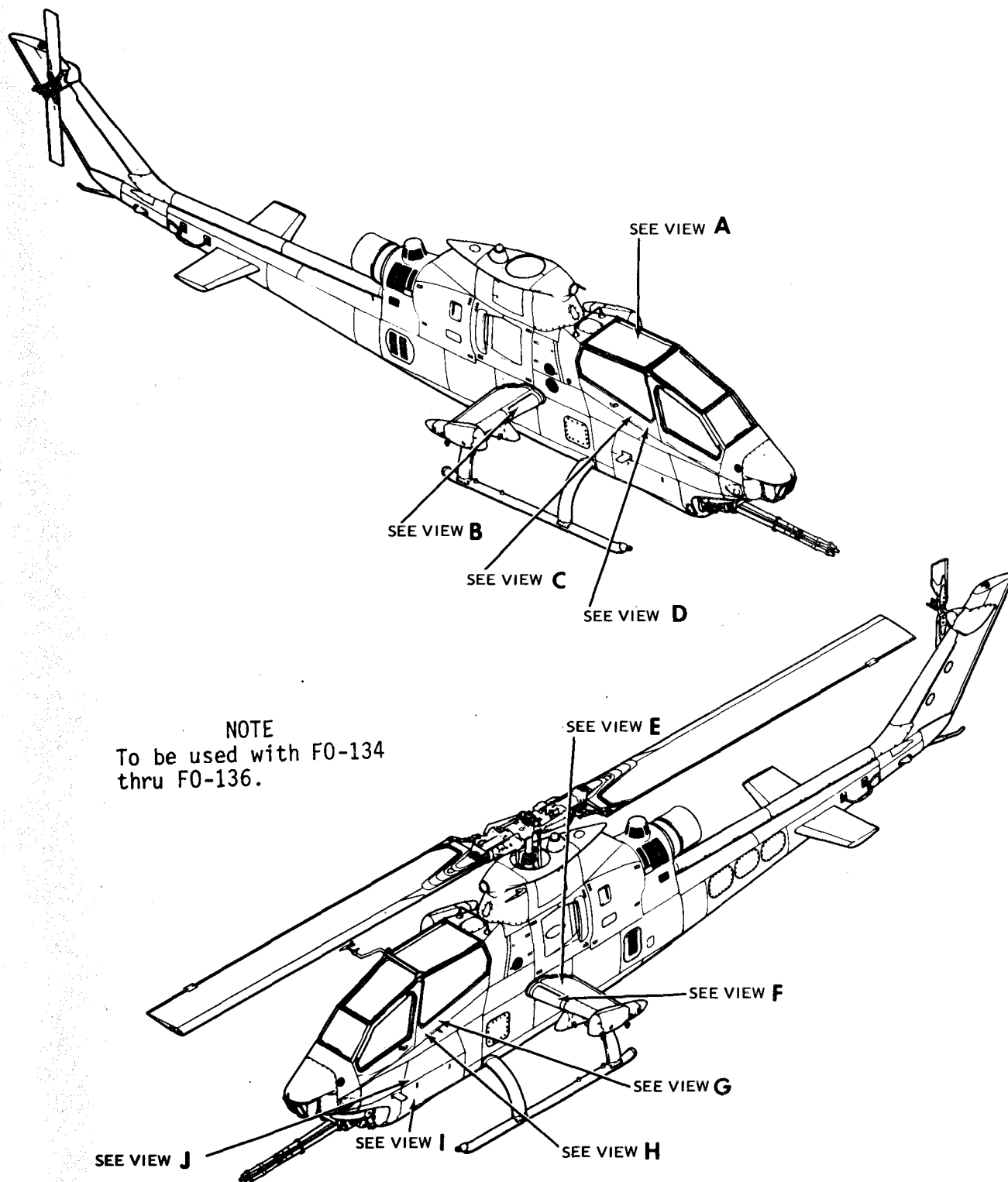
Figure F-74. **M** Fire Control System (Equipment Location) (Sheet 13 of 14)



GUNNER STATION
LOOKING INBD LH SIDE
VIEW **M**

209475-490-14

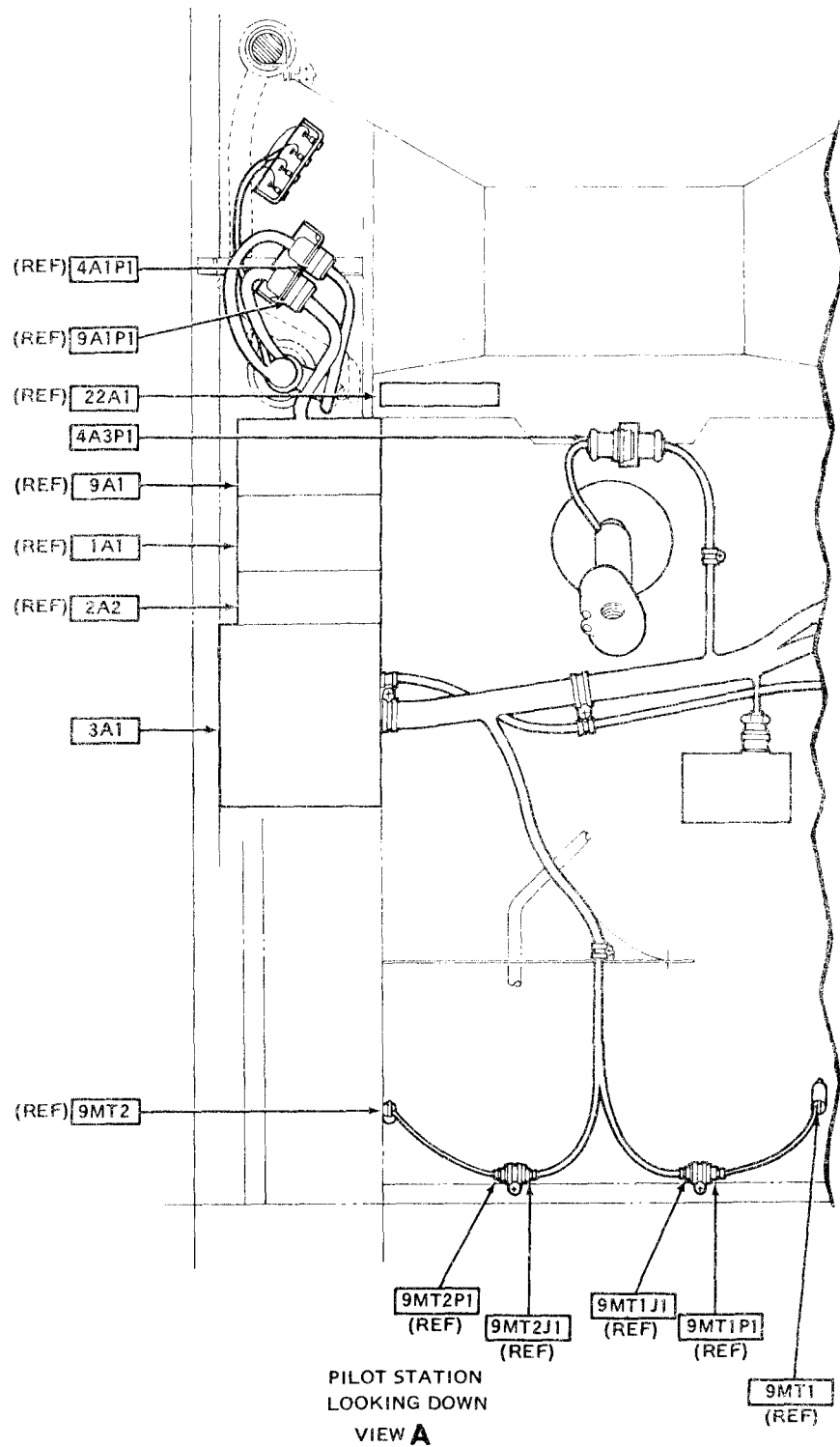
Figure F-74. **M** Fire Control System (Equipment Location) (Sheet 14 of 14)



209475-486-1

Figure F-75. Wing Stores Armament Subsystem (Equipment Location) (Sheet 1 of 12)

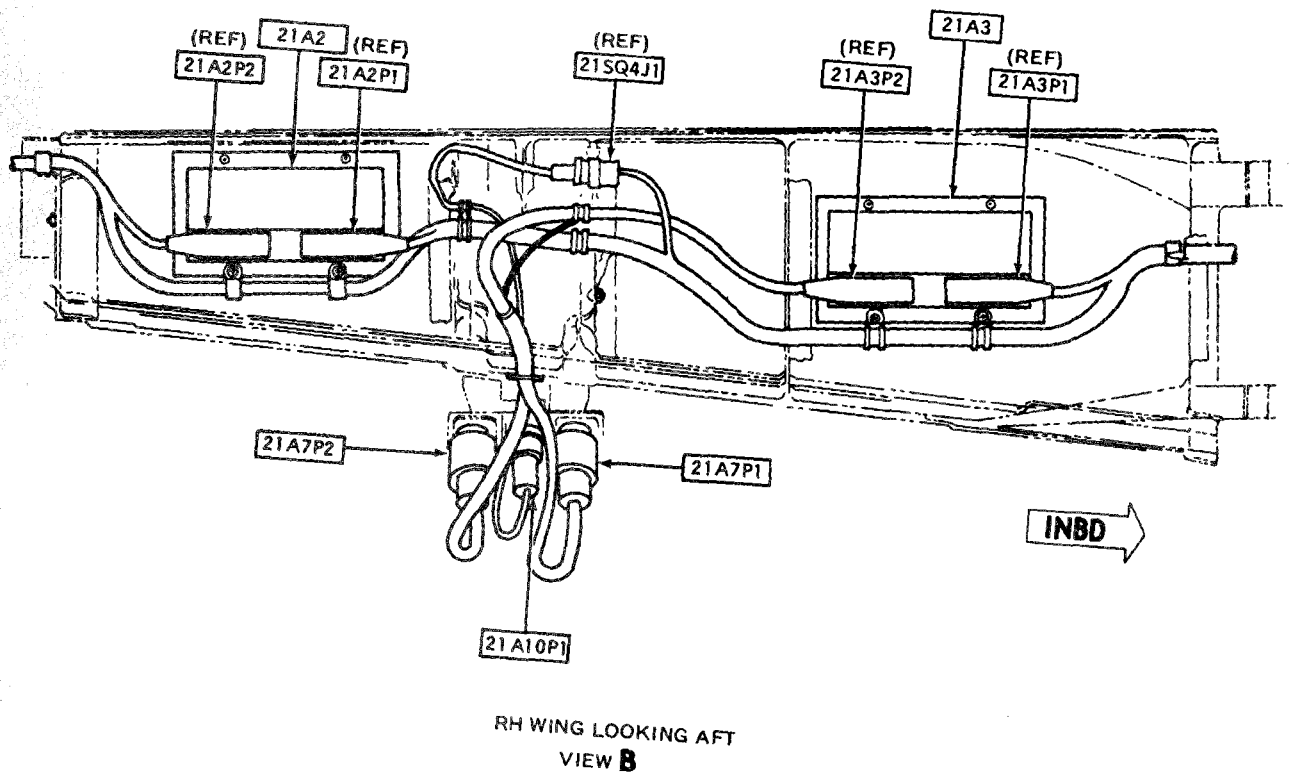
M



209475-486-2

Figure F-75. Wing Stores Armament Subsystem (Equipment Location) (Sheet 2 of 12)

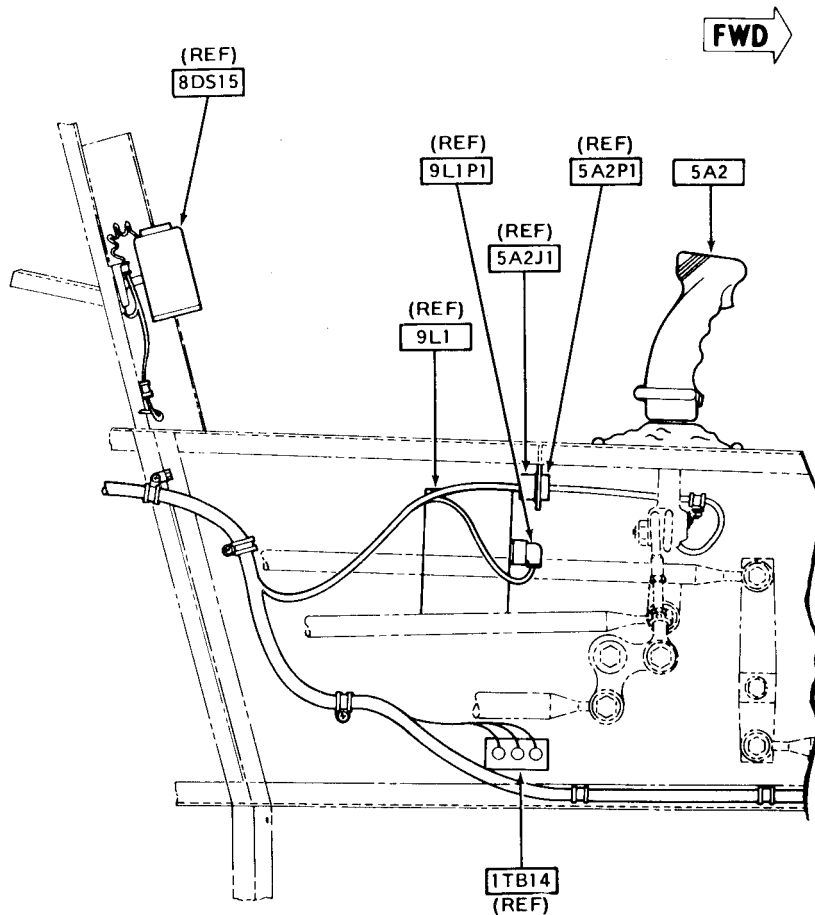
M



209475-486-3

Figure F-75. Wing Stores Armament Subsystem (Equipment Location) (Sheet 3 of 12)

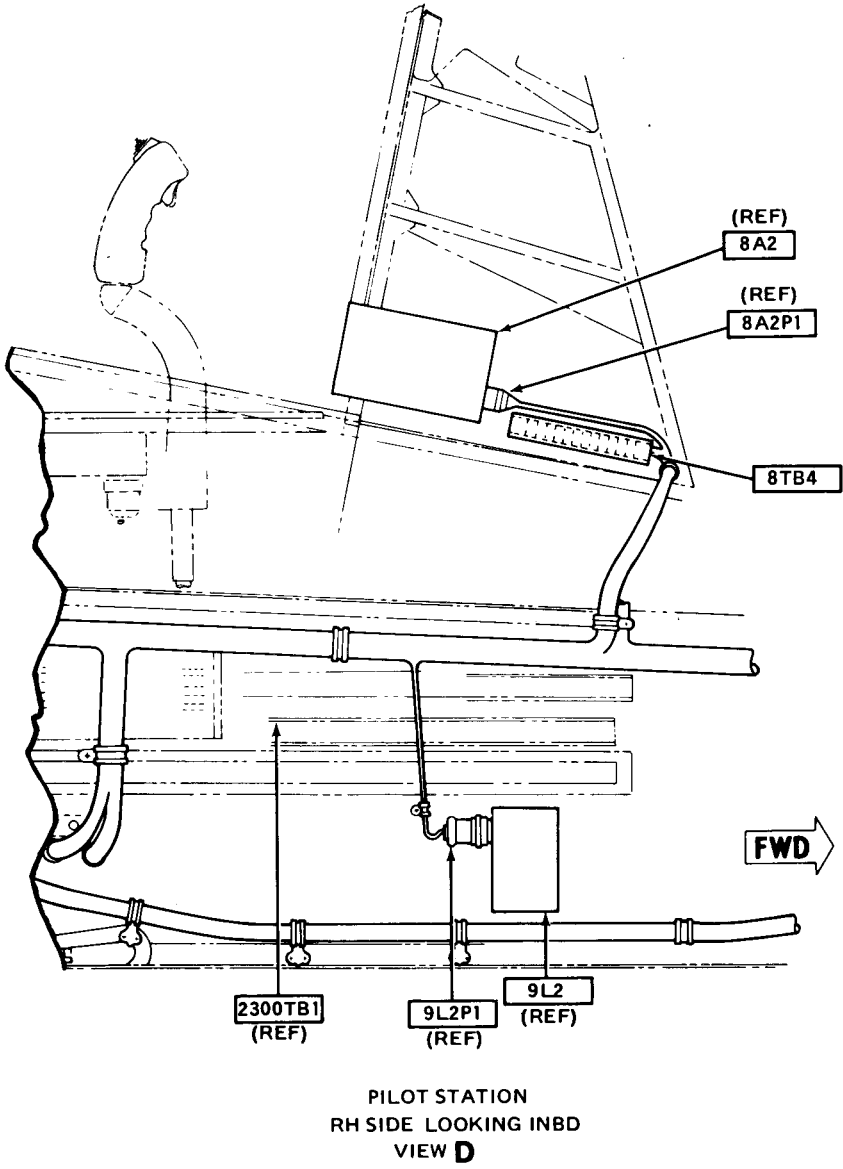
M



GUNNER STATION
LOOKING INBD RH SIDE
VIEW C

209475-486-4

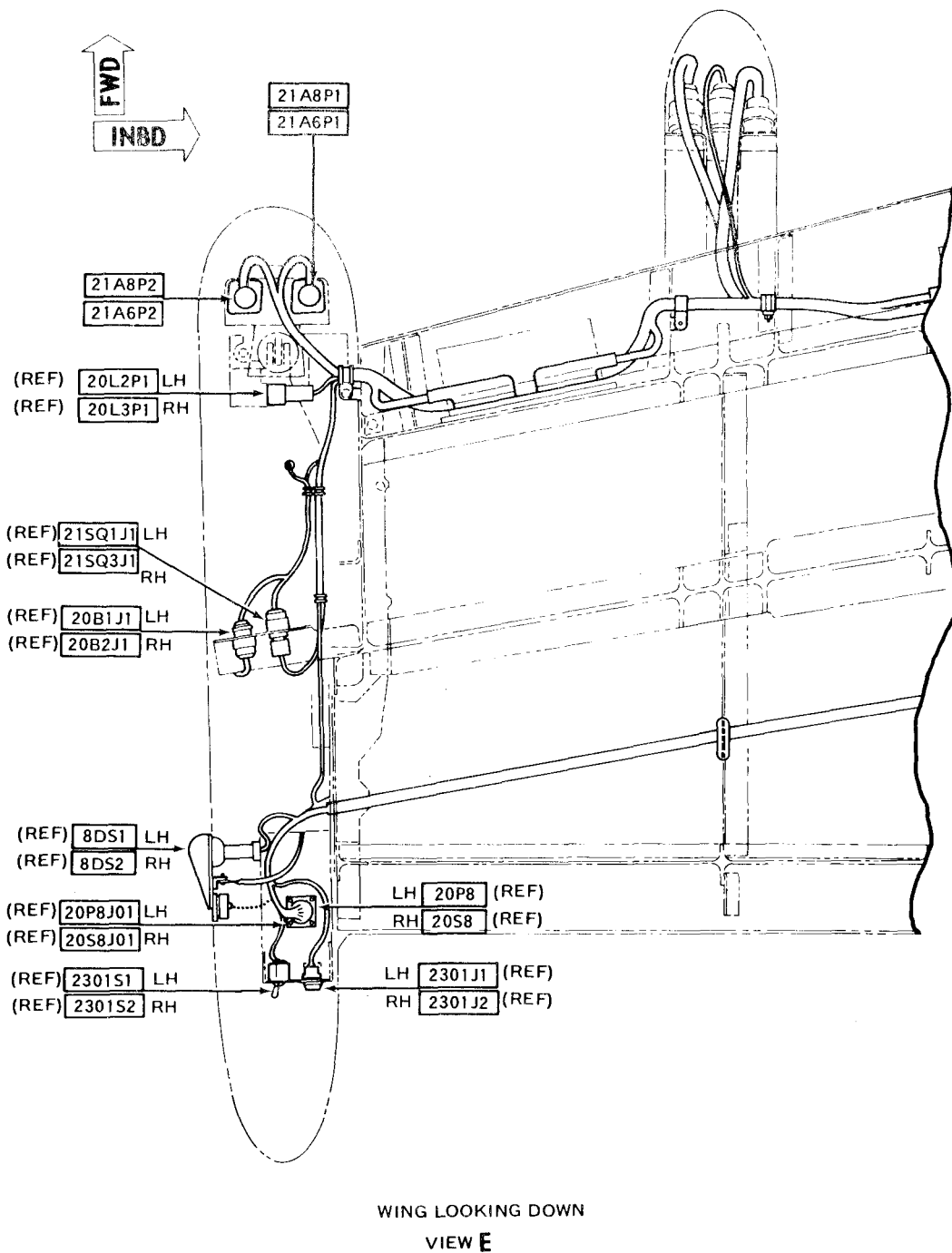
Figure F-75. **M** Wing Stores Armament Subsystem (Equipment Location) (Sheet 4 of 12)



209475-486-5

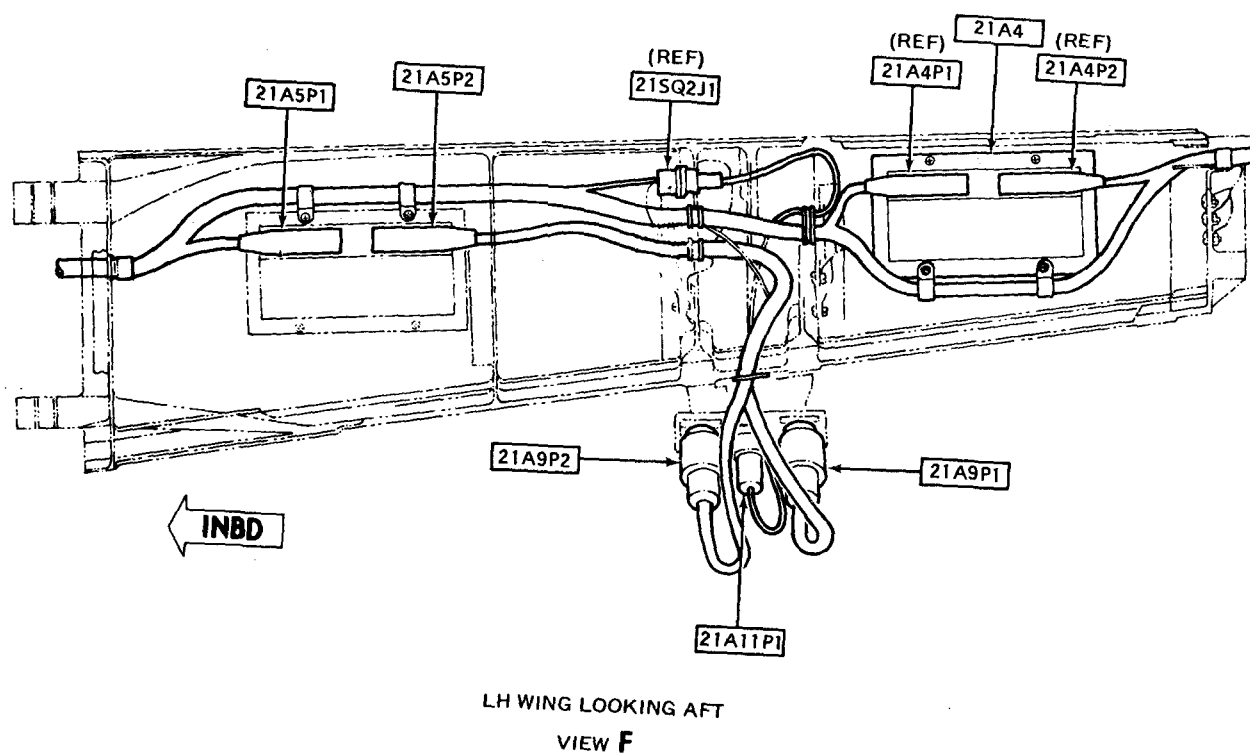
M

Figure F-75. Wing Stores Armament Subsystem (Equipment Location) (Sheet 5 of 12)



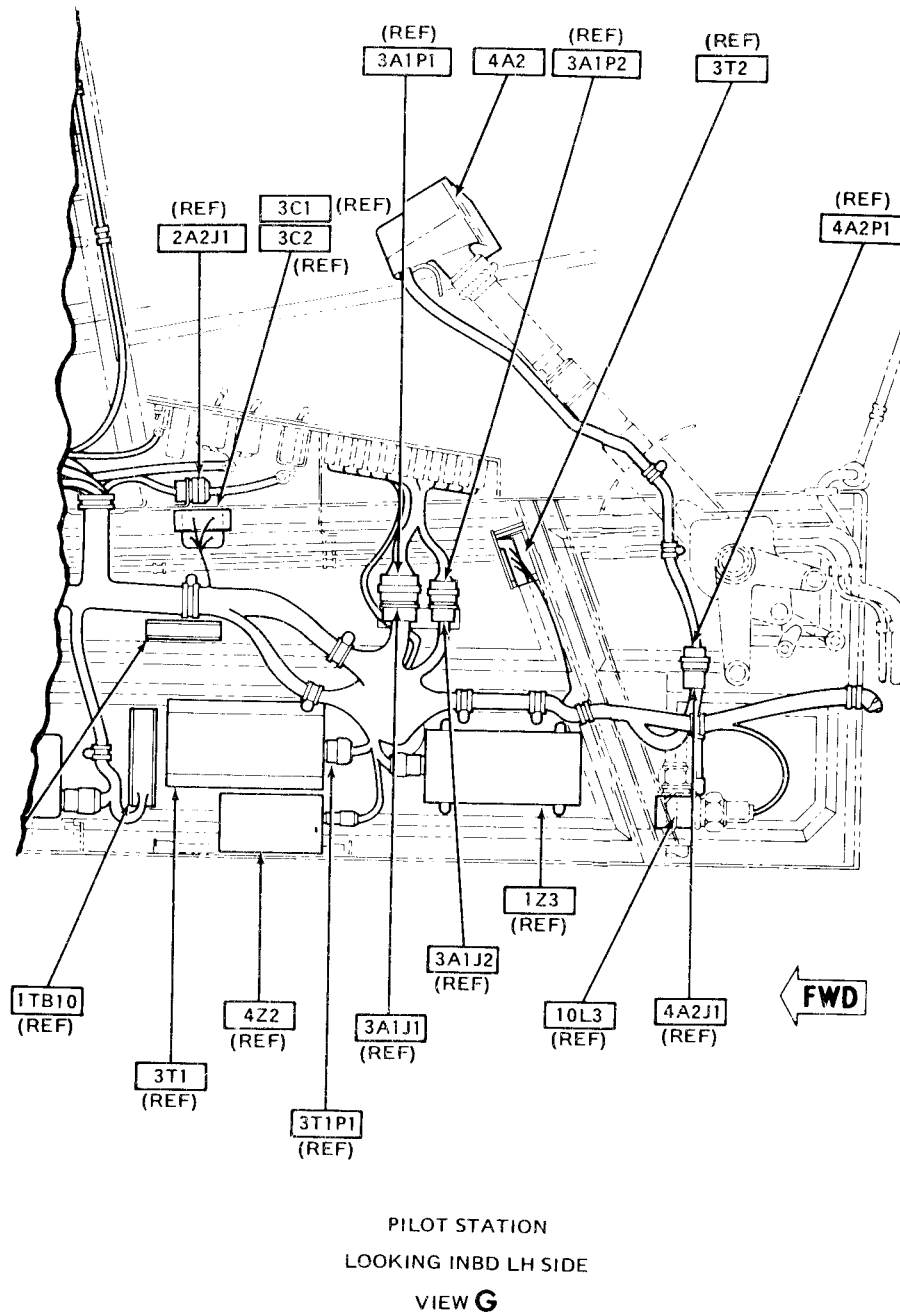
209475-486-6

Figure F-75. **M** Wing Stores Armament Subsystem (Equipment Location) (Sheet 6 of 12)



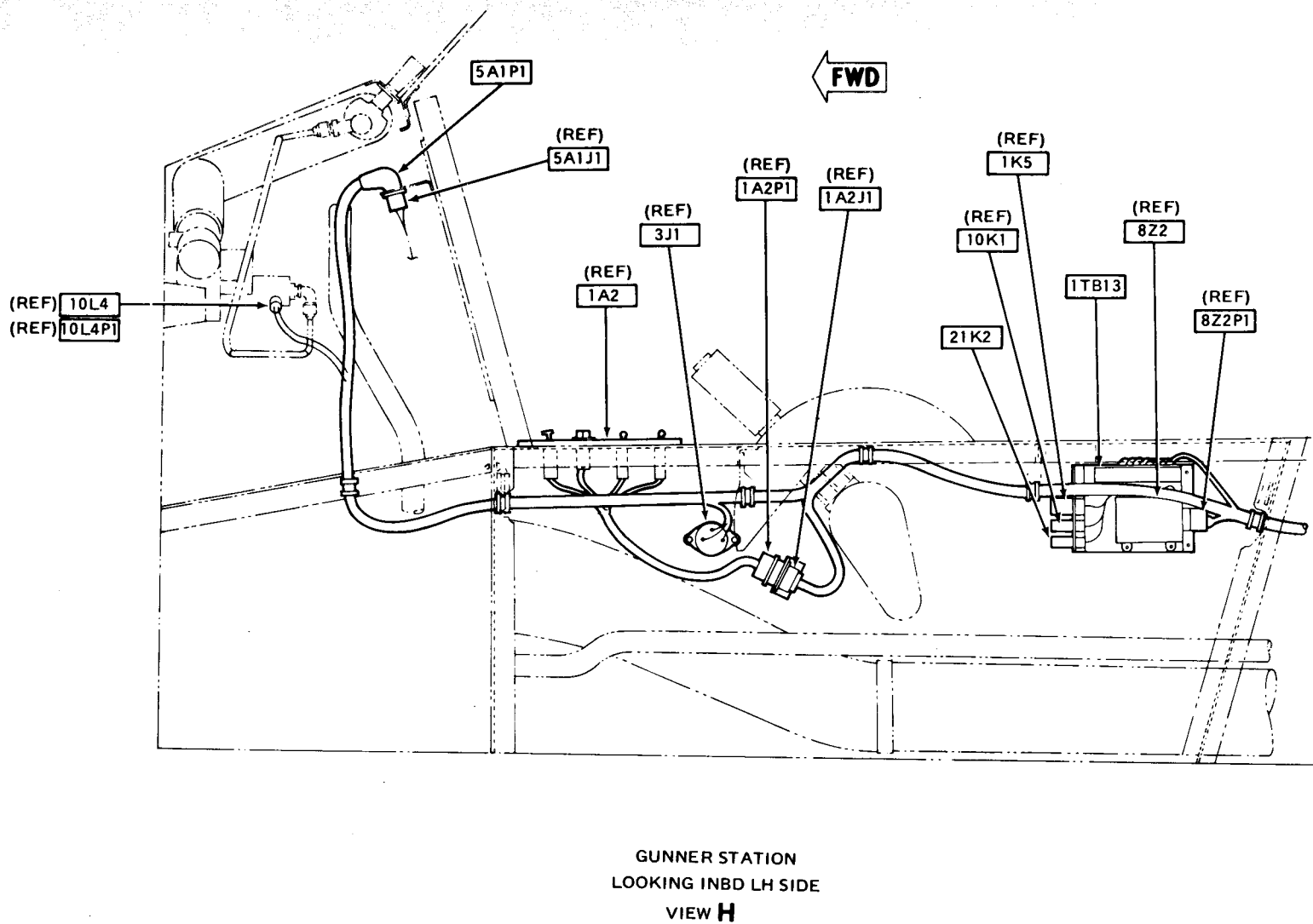
209475-486-7

Figure F-75. **M** Wing Stores Armament Subsystem (Equipment Location) (Sheet 7 of 12)



209475-486-8

M
Figure F-75. Wing Stores Armament Subsystem (Equipment Location) (Sheet 8 of 12)



209475-486-9

Figure F-75. **M** Wing Stores Armament Subsystem (Equipment Location) (Sheet 9 of 12)

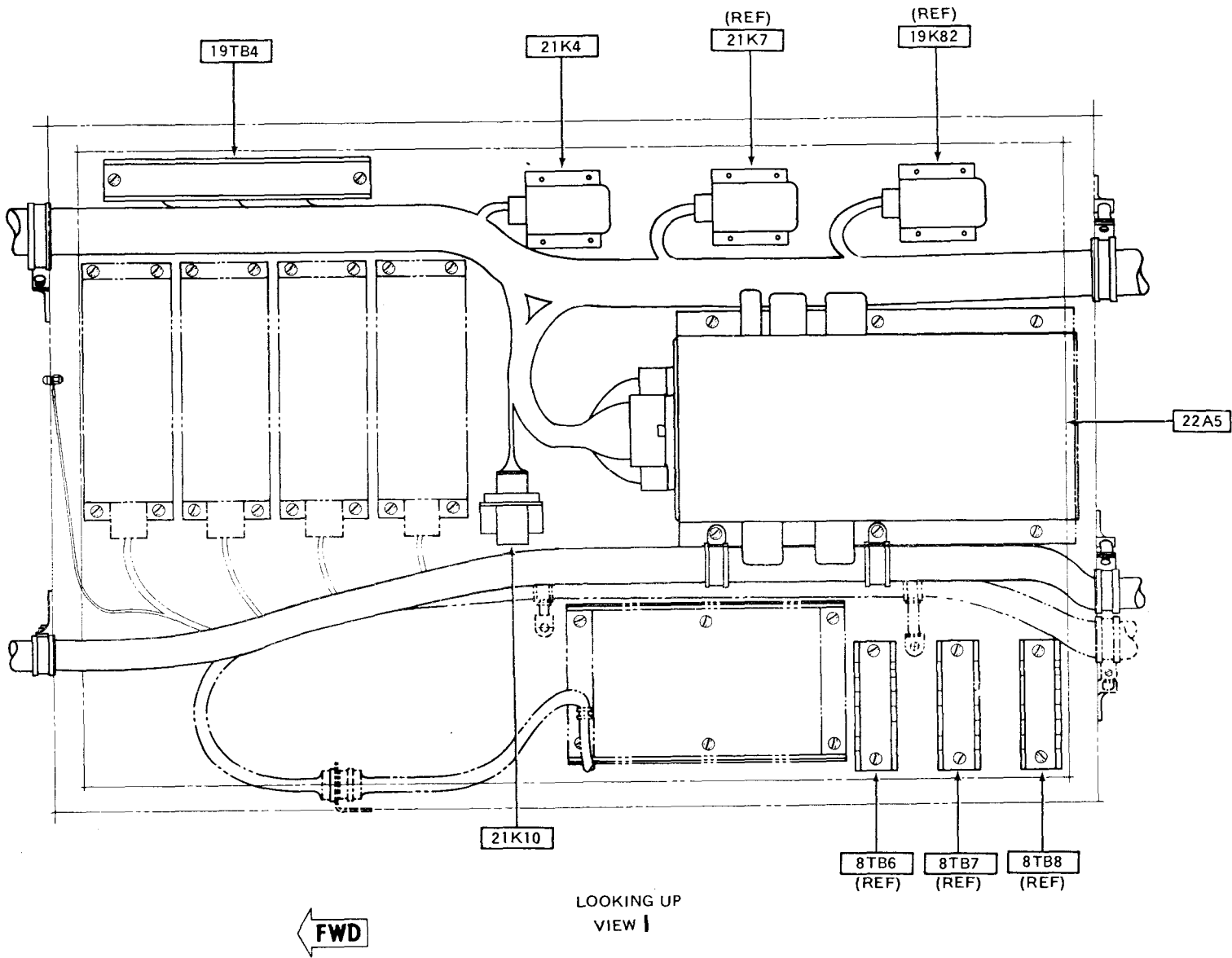


Figure F-75. **M** Wing Stores Armament Subsystem (Equipment Location) (Sheet 10 of 12)

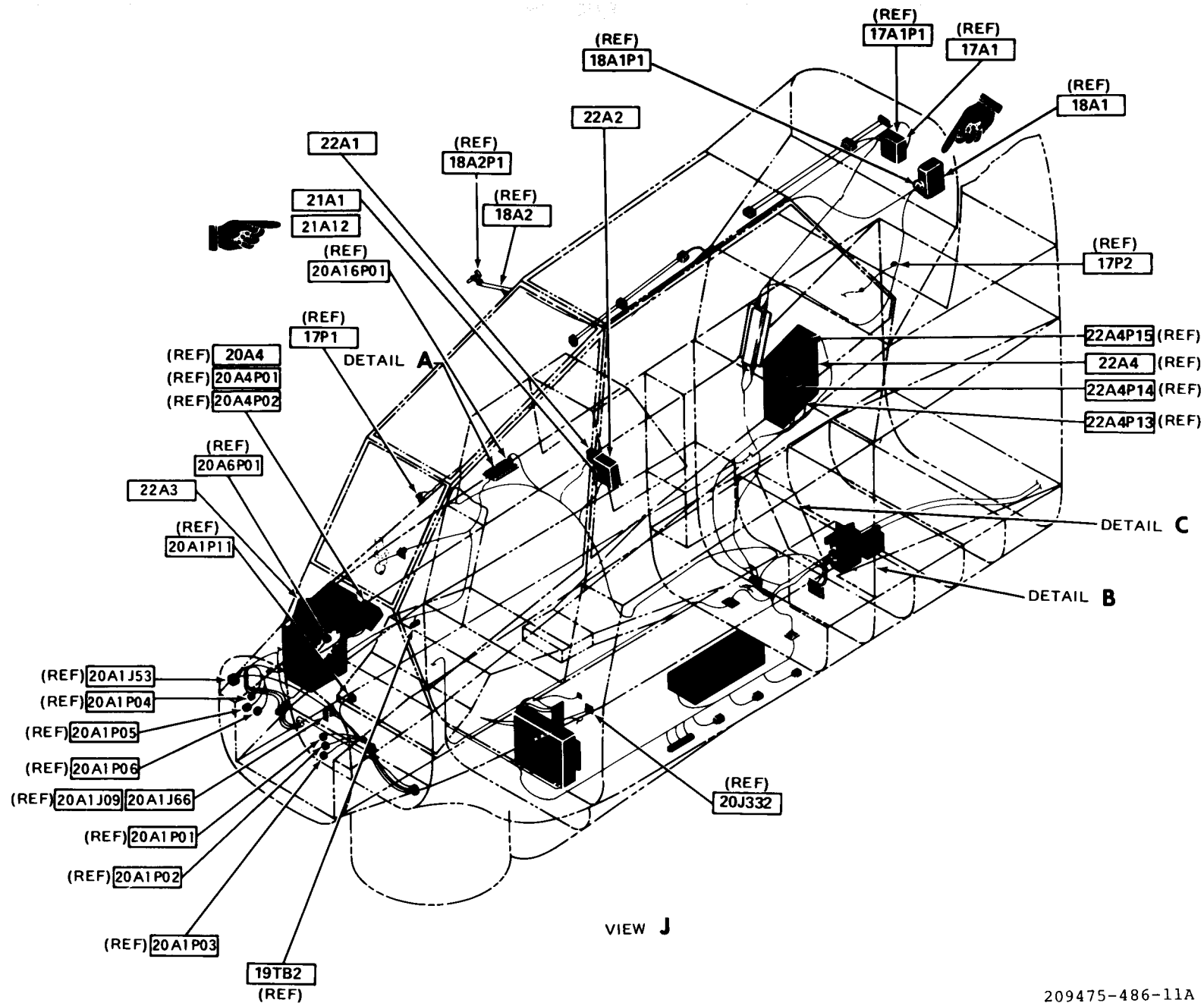


Figure F-75. **M**

Wing Stores Armament Subsystem (Equipment Location) (Sheet 11 of 12)

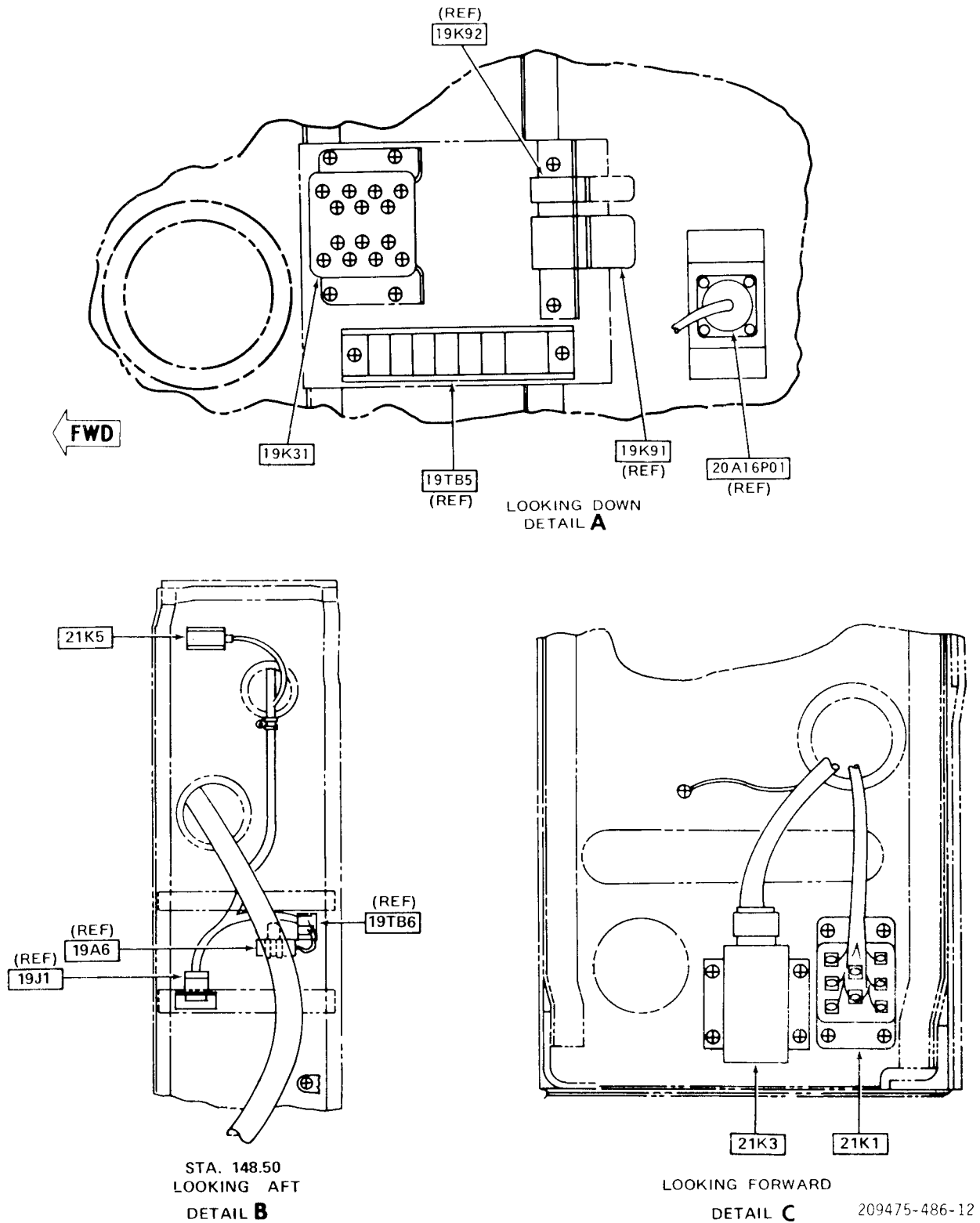


Figure F-75. **M** Wing Stores Armament Subsystem (Equipment Location) (Sheet 12 of 12)

F-424

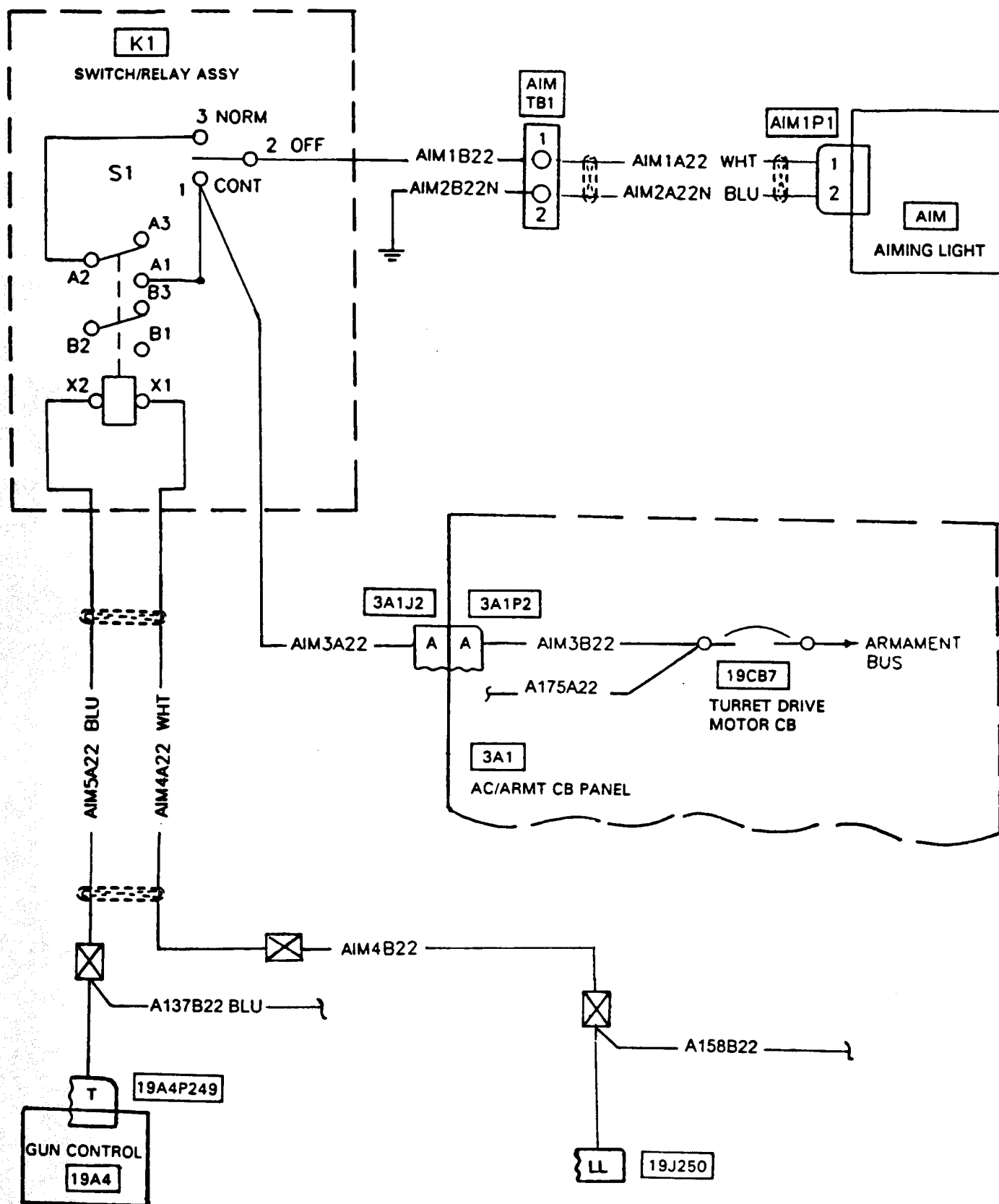


Figure F-75.1. **M** AIM-1/EXL Laser Gunsight System (Equipment Location)
(Sheet 1 of 5)

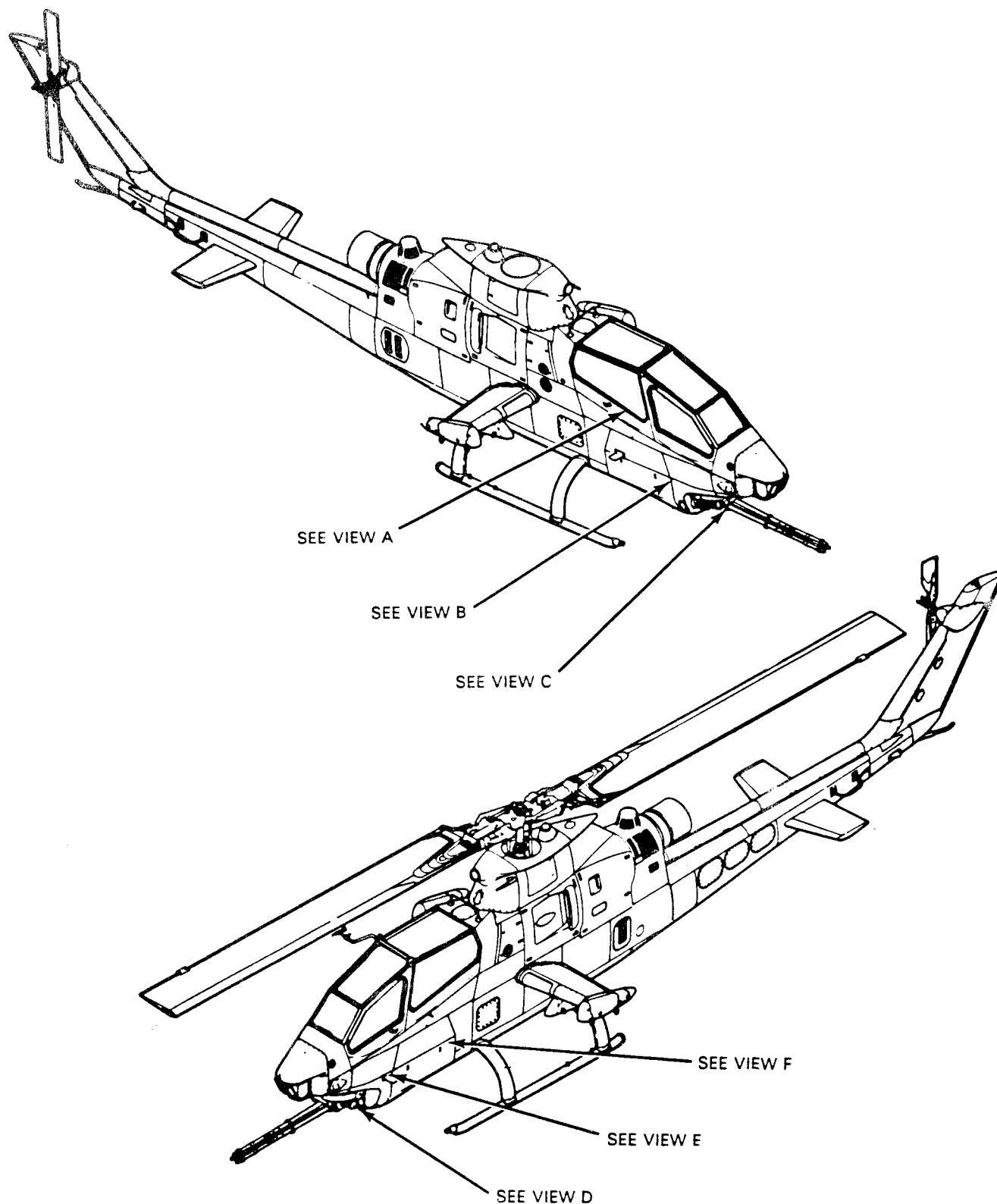


Figure F-75.1. **M** AIM-1/EXL Laser Gunsight System (Equipment Location)
(Sheet 2 of 5)

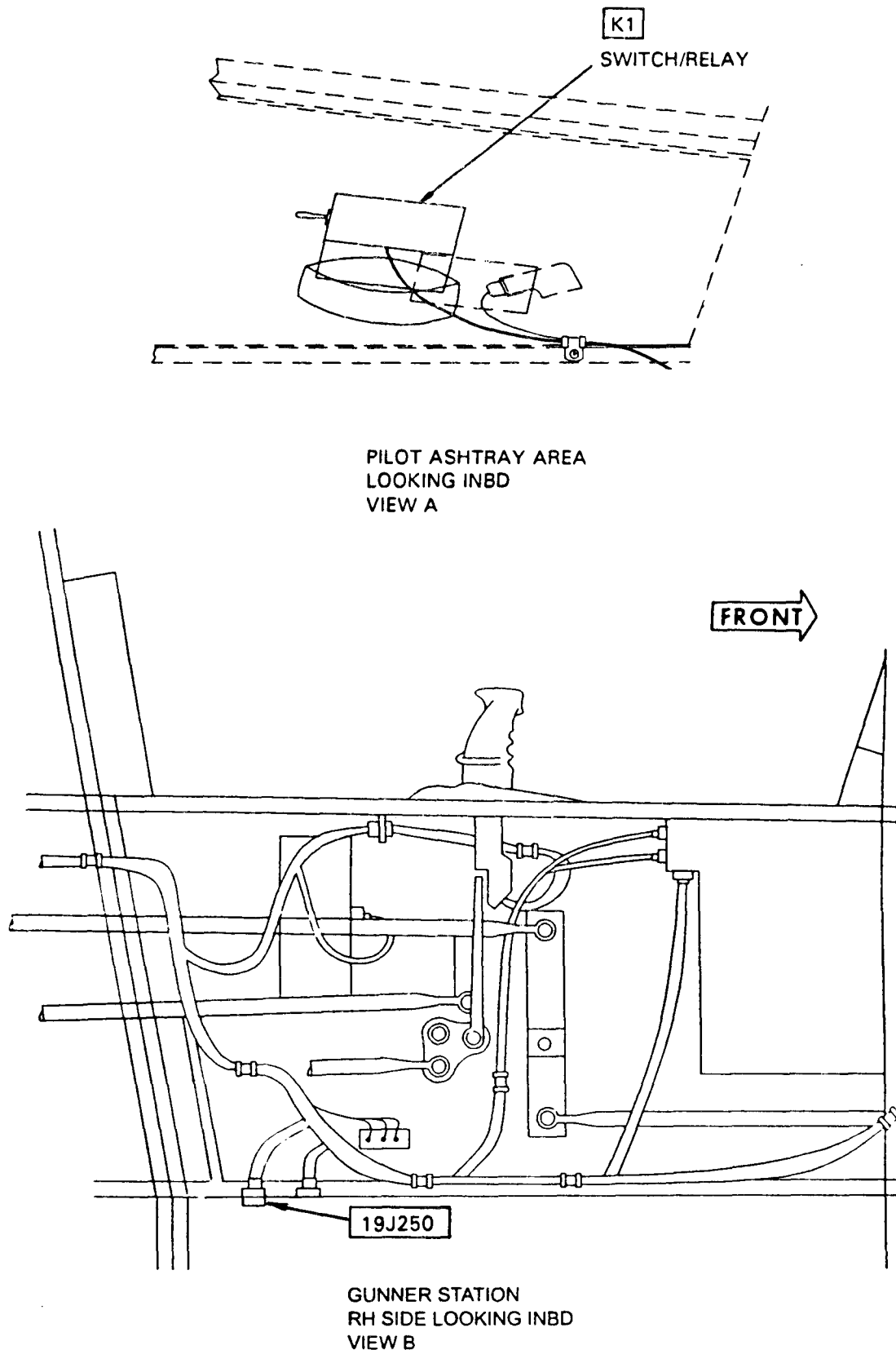
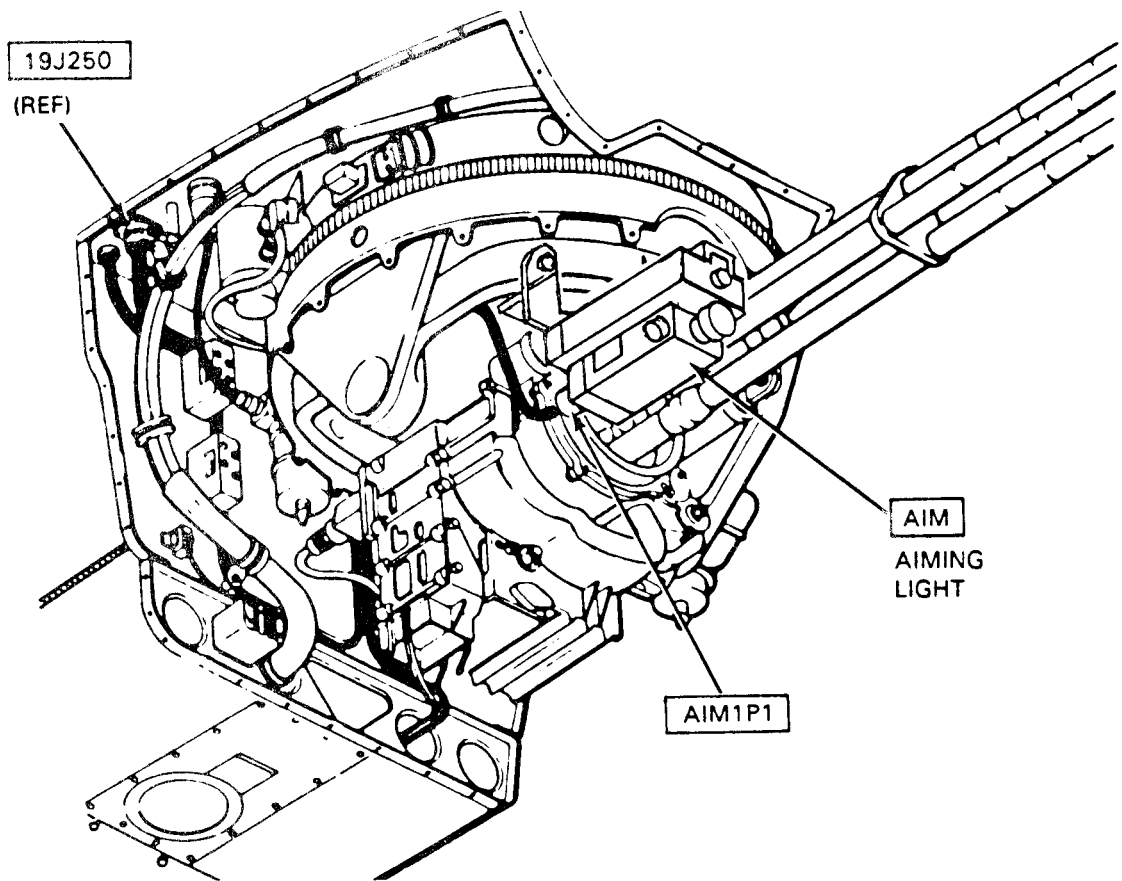
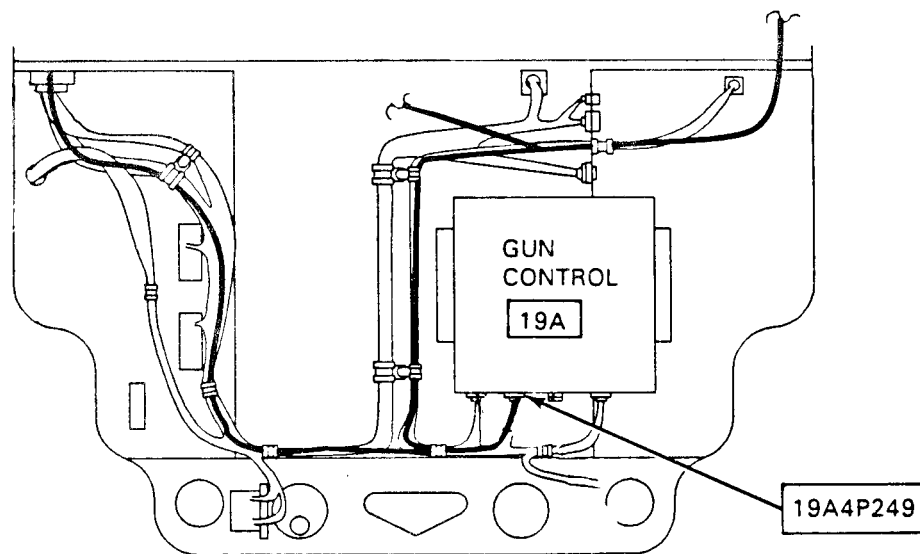


Figure F-75.1. **M** AIM-1/EXL Laser Gunsight System Equipment Location
(Sheet 3 of 5)



VIEW C



LOOKING AFT
VIEW D

Figure F-75.1. **M** AIM-1/EXL Laser Gunsight System (Equipment Location)
(Sheet 4 of 5)

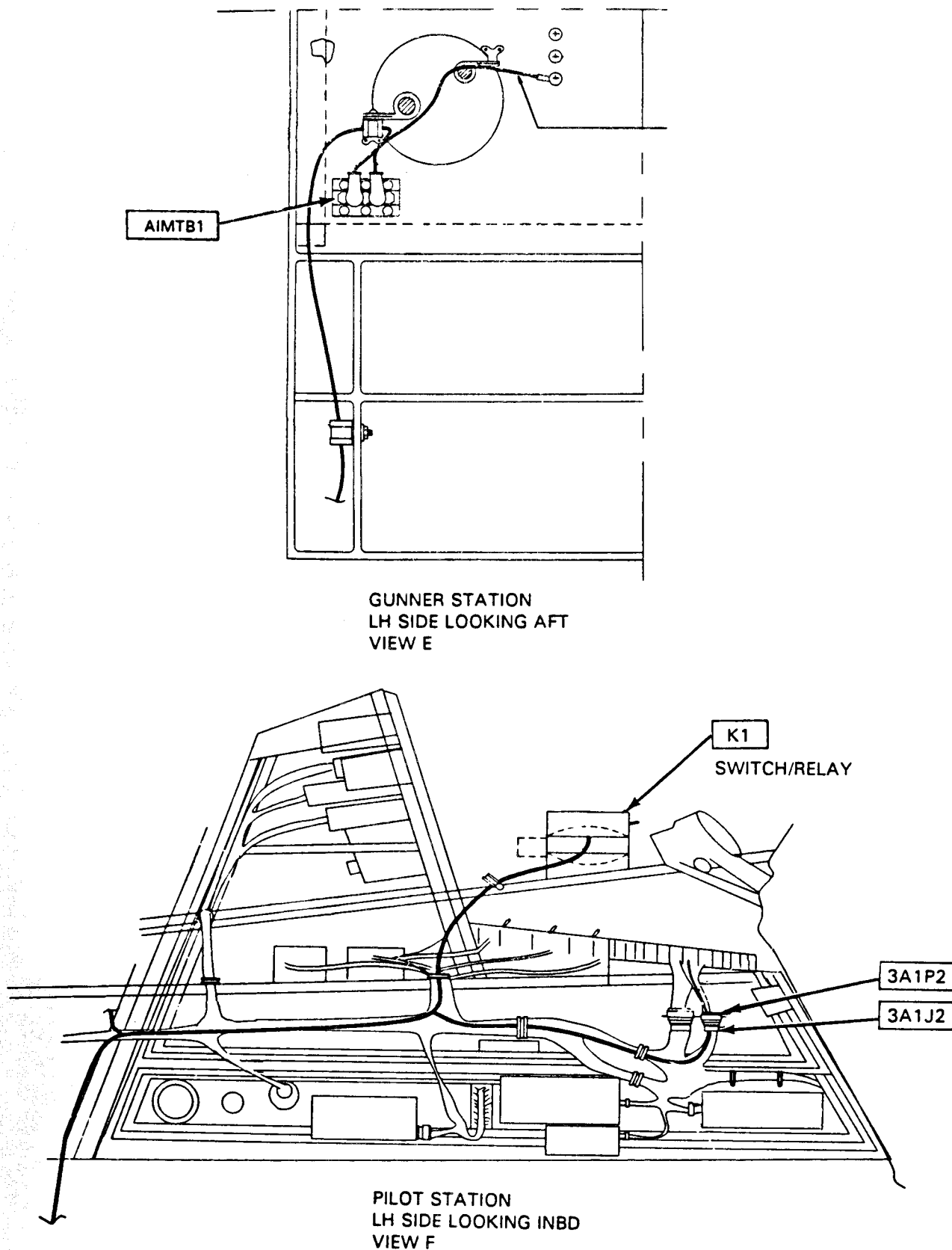


Figure F-75.1. **M** AIM-1/EXL Laser Gunsight System (Equipment Location)
(Sheet 5 of 5)

NOTE
To be used with FO-137 thru FO-142

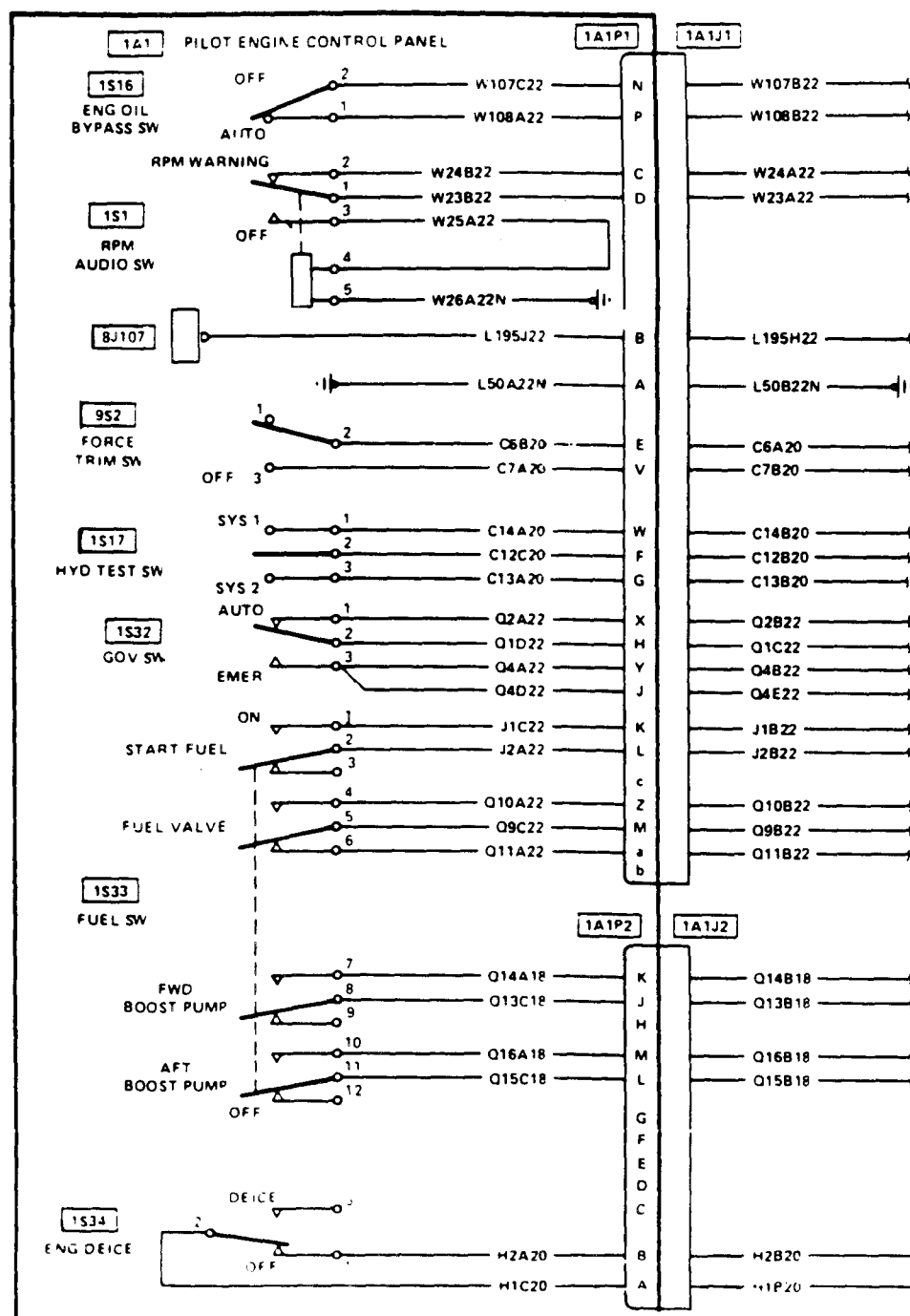
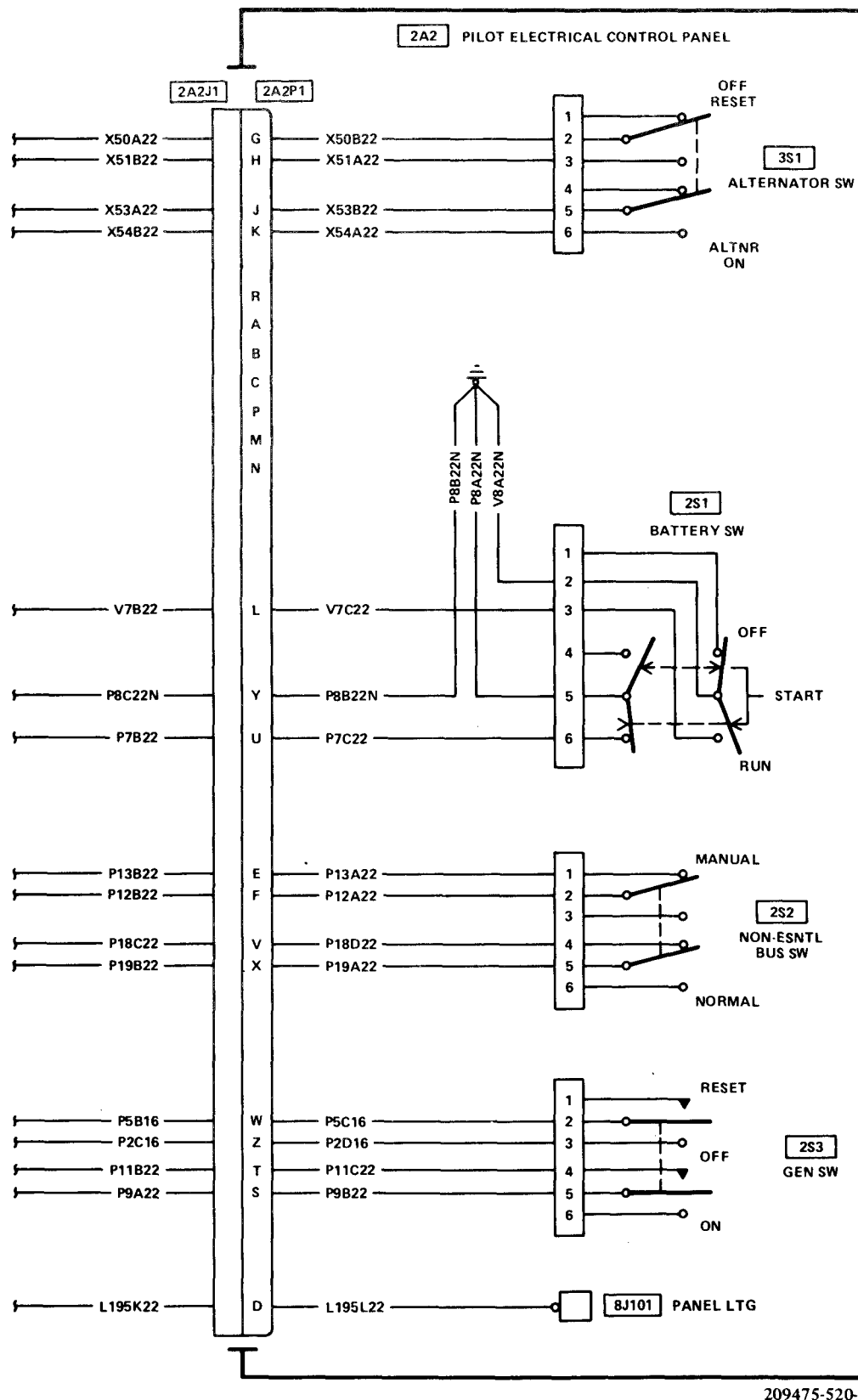
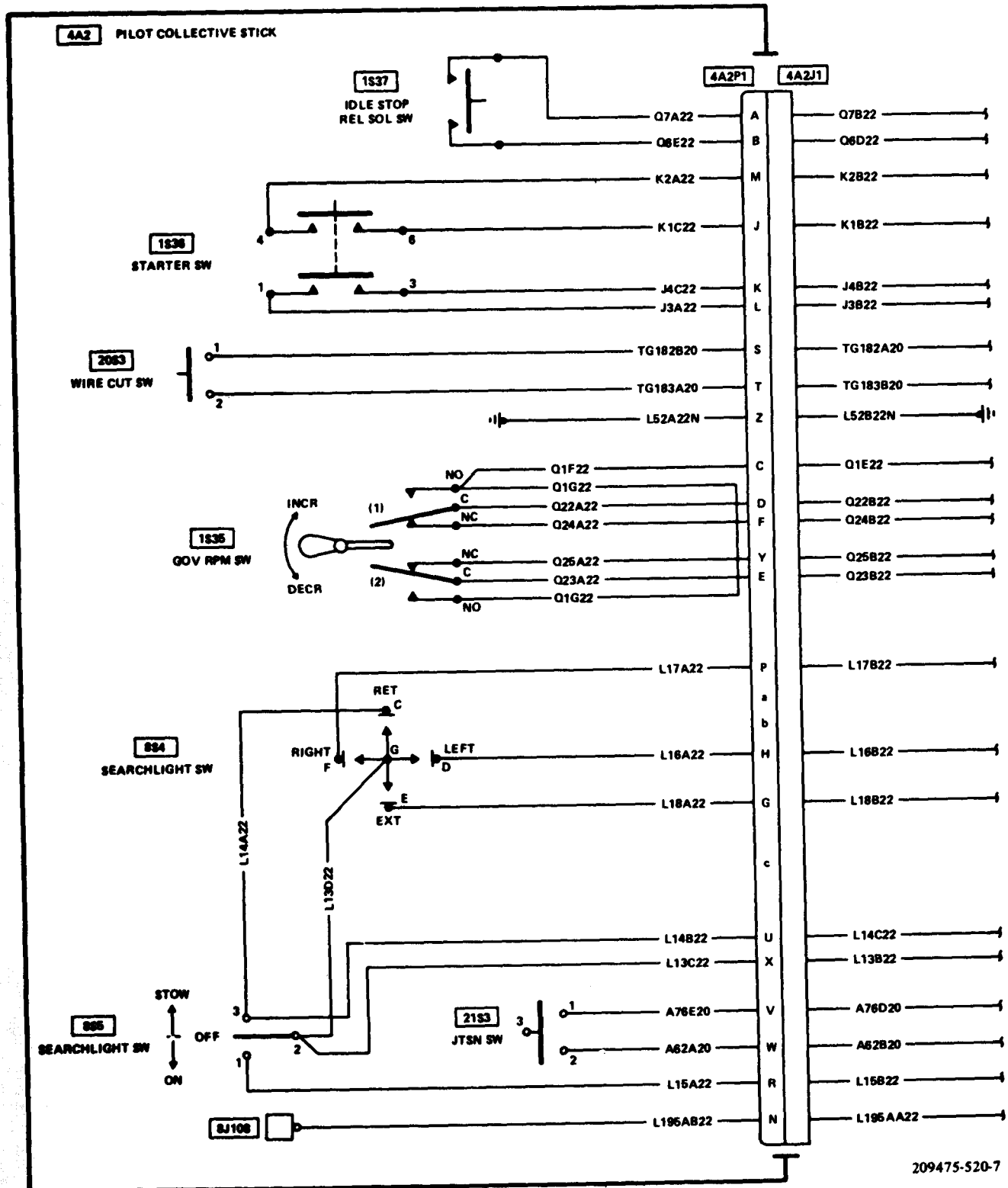


Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 1 of 38)



209475-520-4

Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 2 of 38)



209475-520-7

Figure F-76.



Electrical Equipment Component Replacement (Sheet 3 of 38)

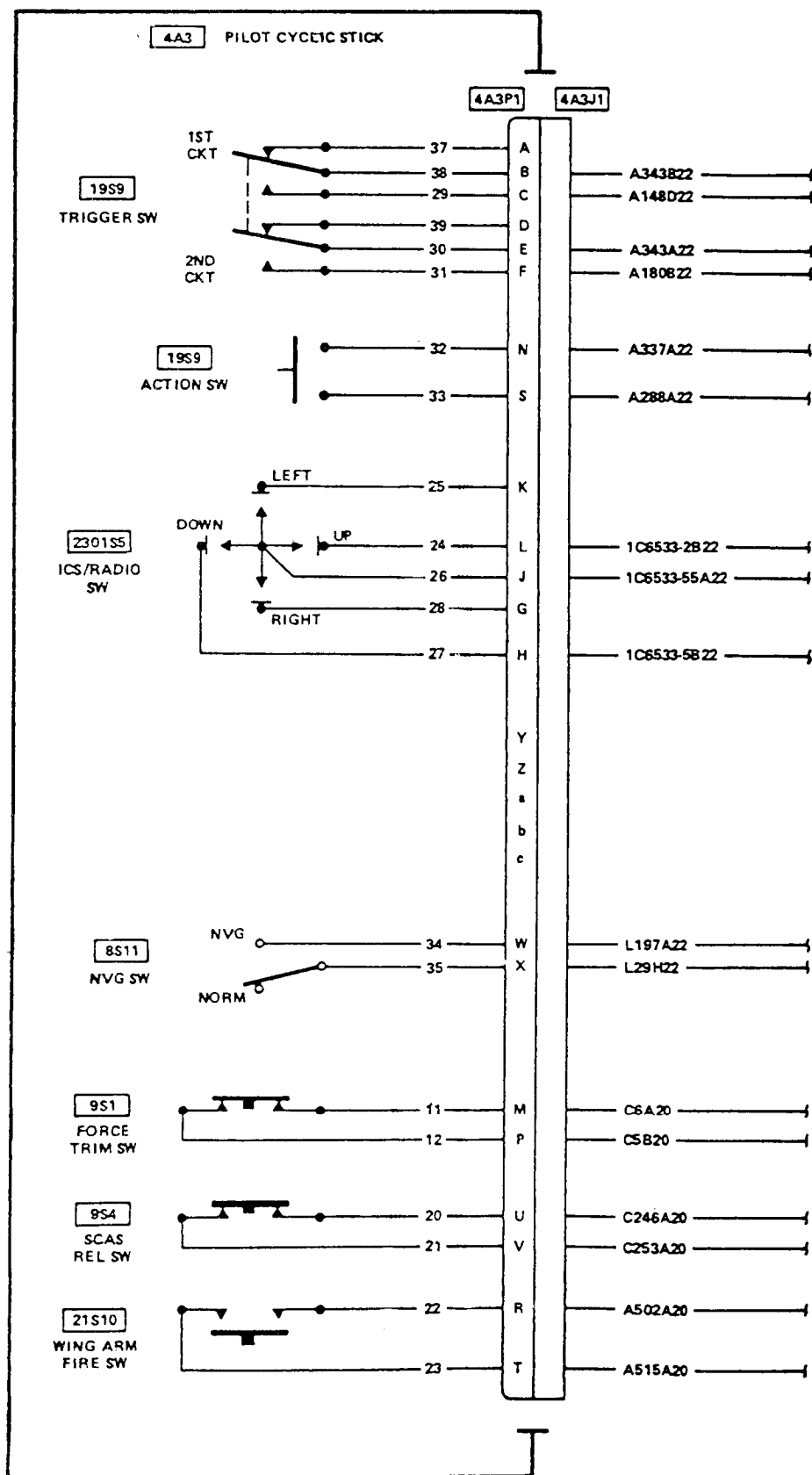


Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 4 of 36)

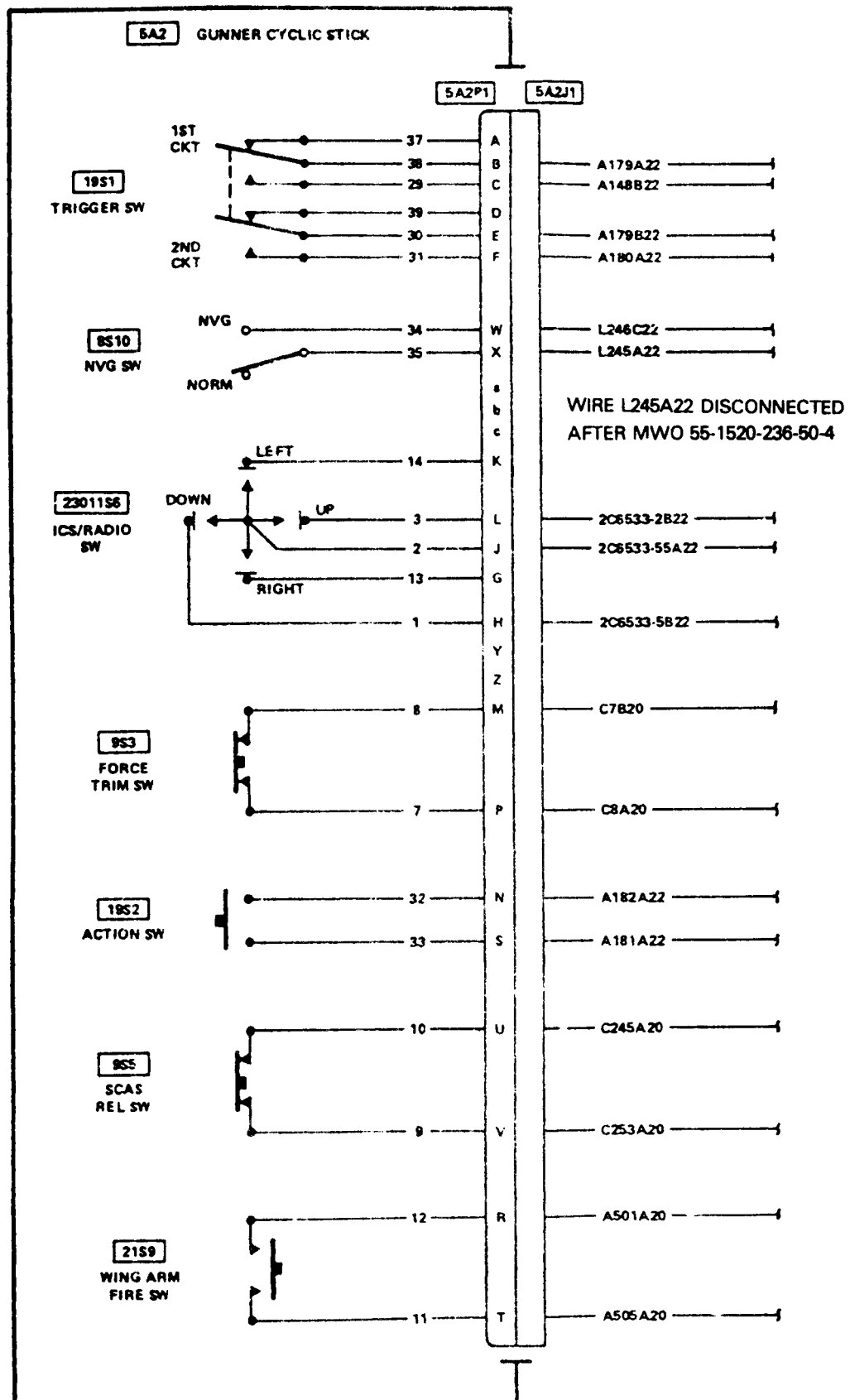


Figure F-76. **M** Electrical Component Replacement (Sheet 5 of 38)

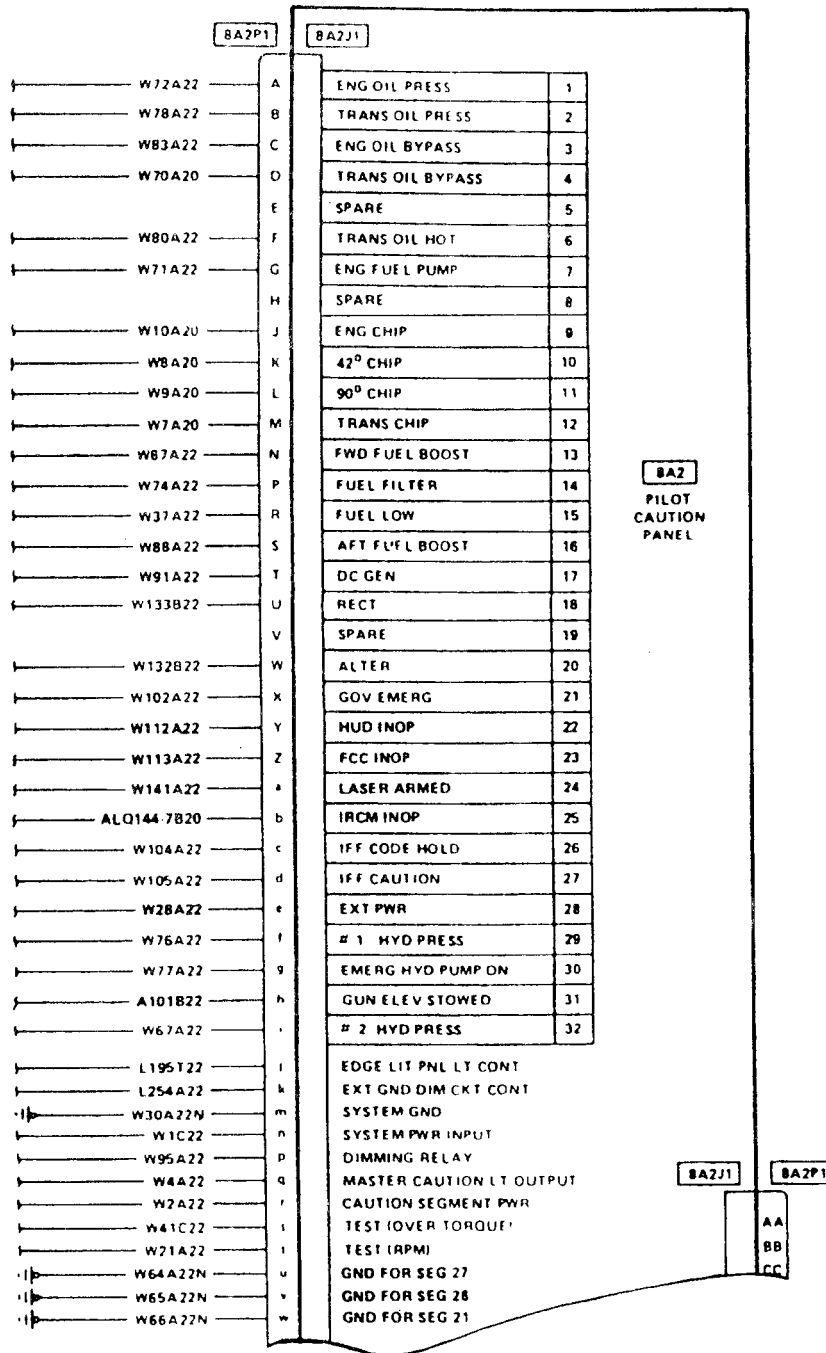


Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 6 of 38)

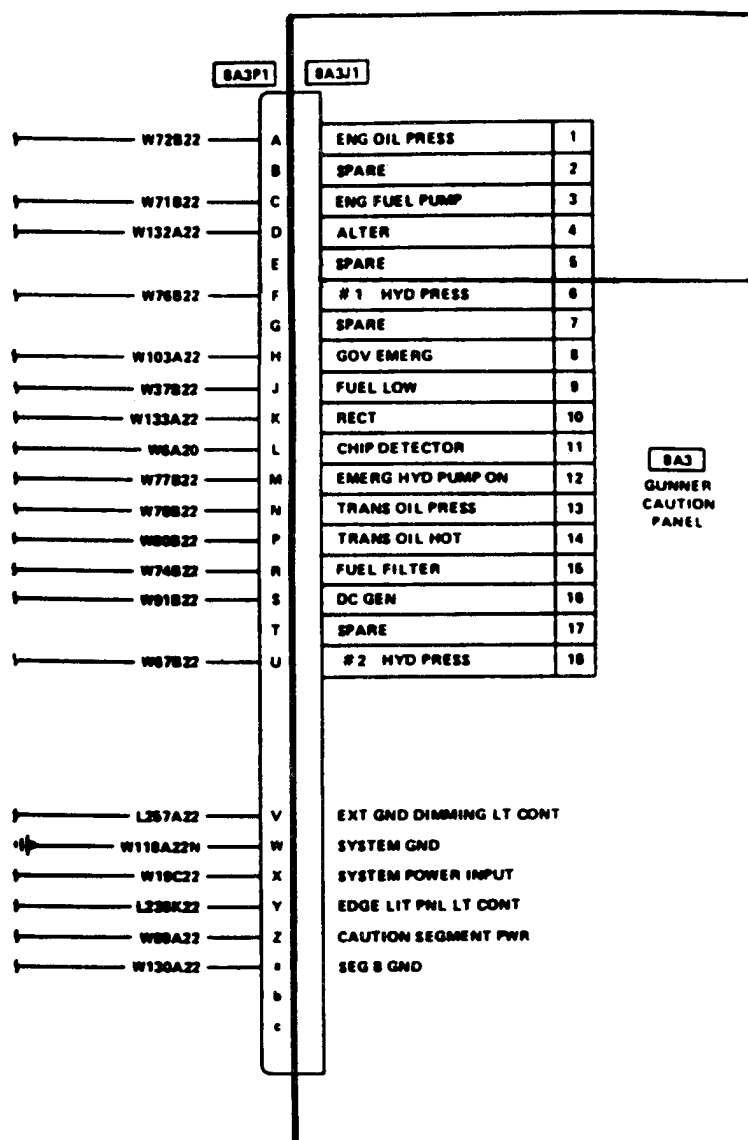


Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 7 of 38)

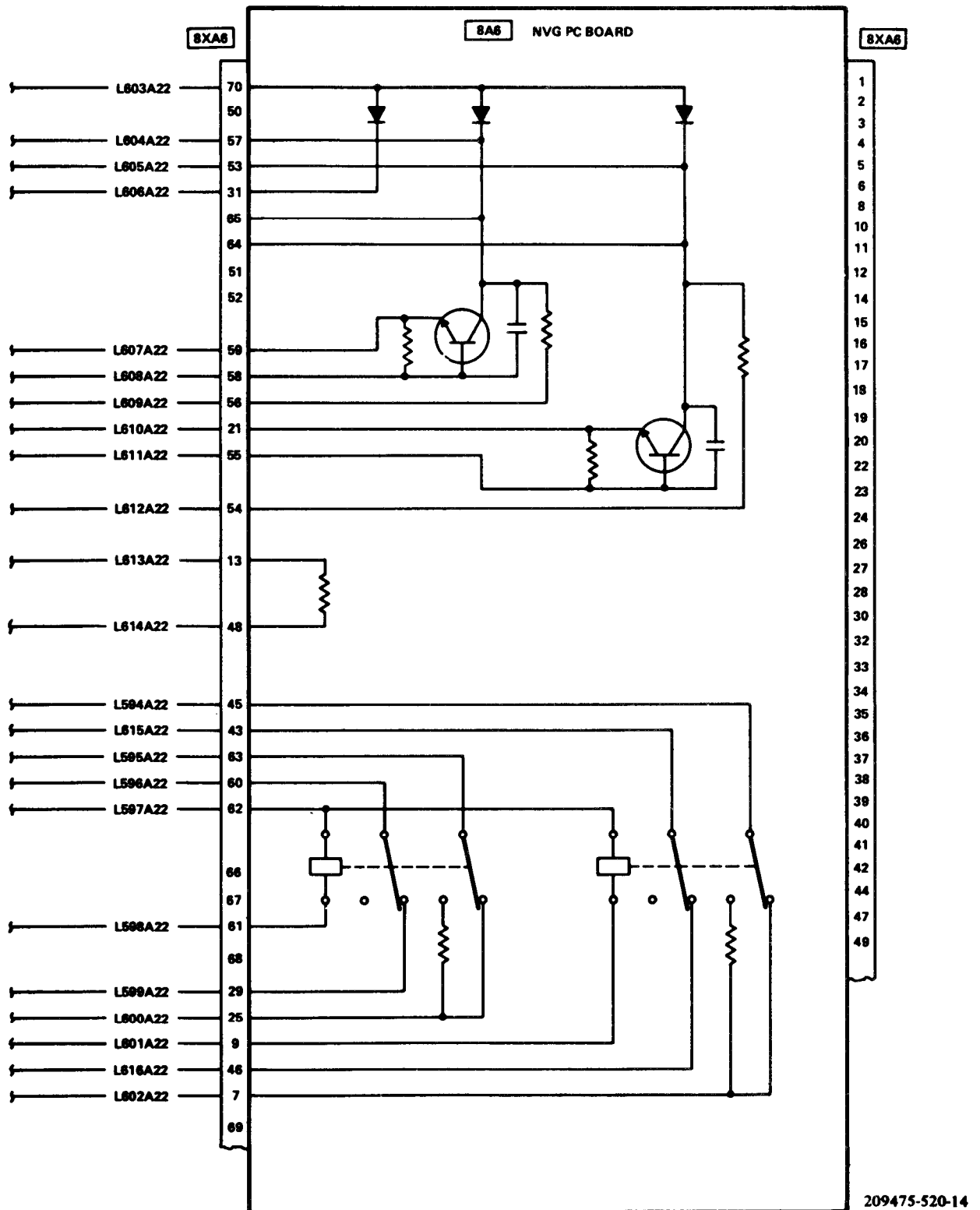


Figure F-76. Electrical Equipment Component Replacement (Sheet 8 of 38)

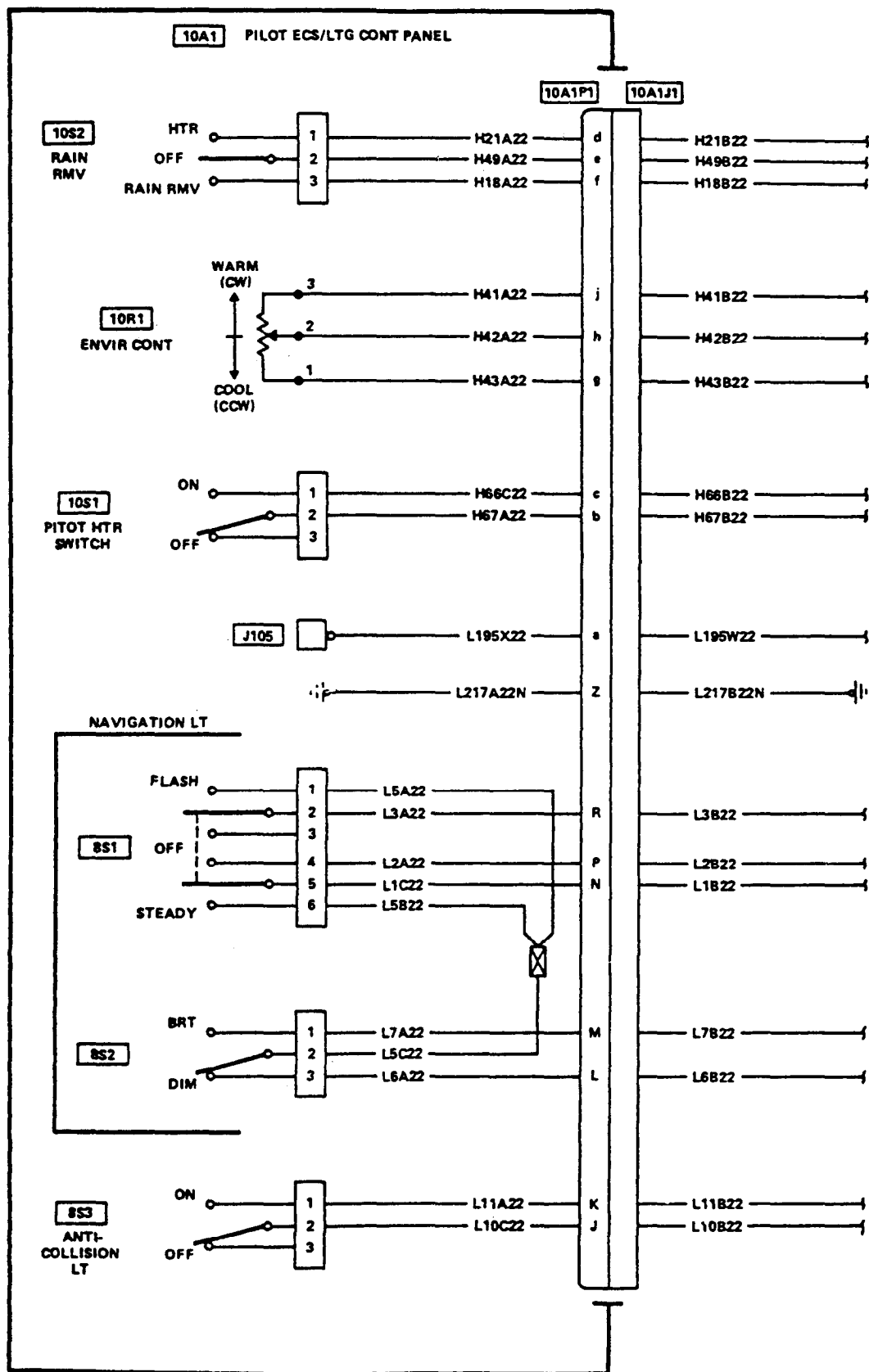
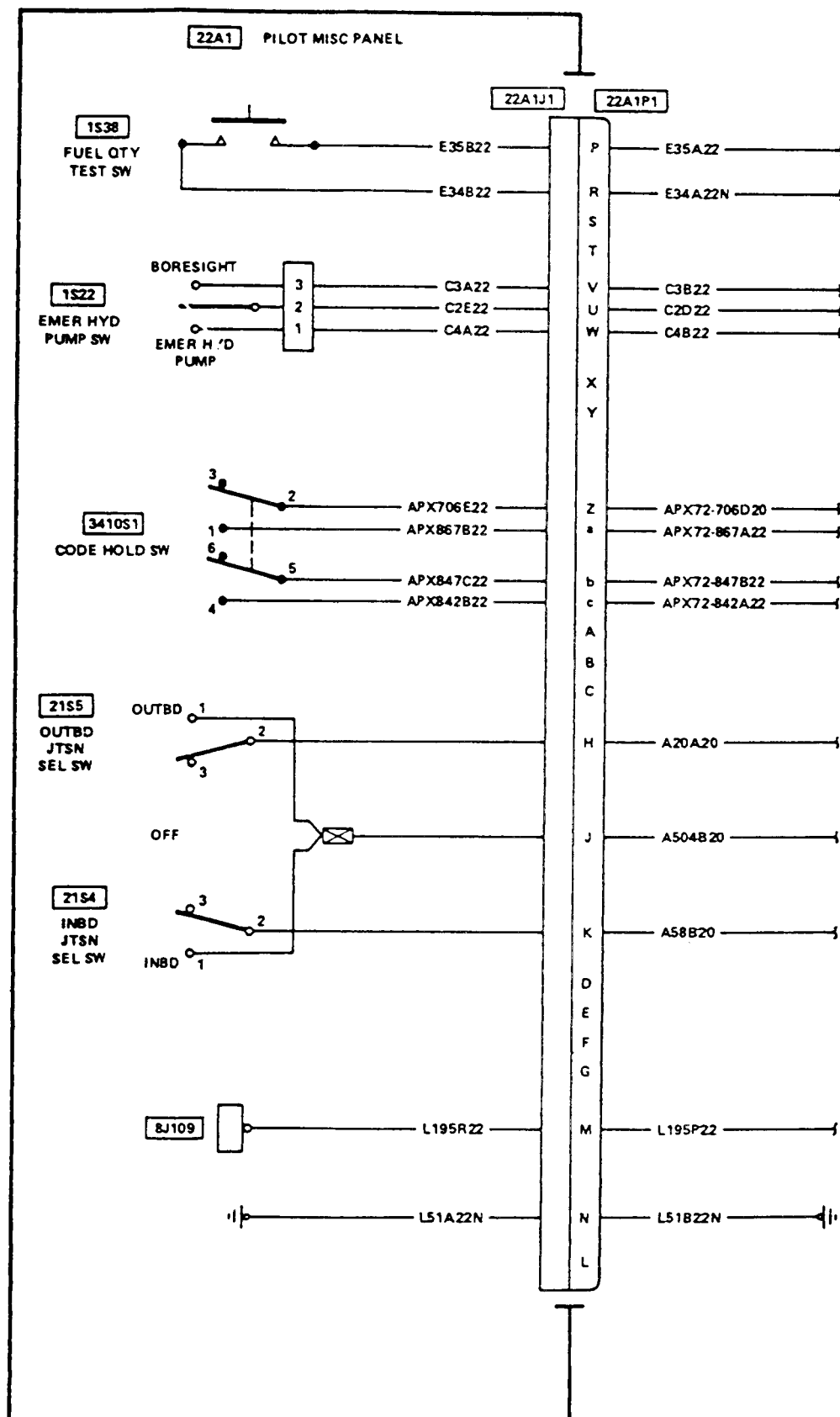
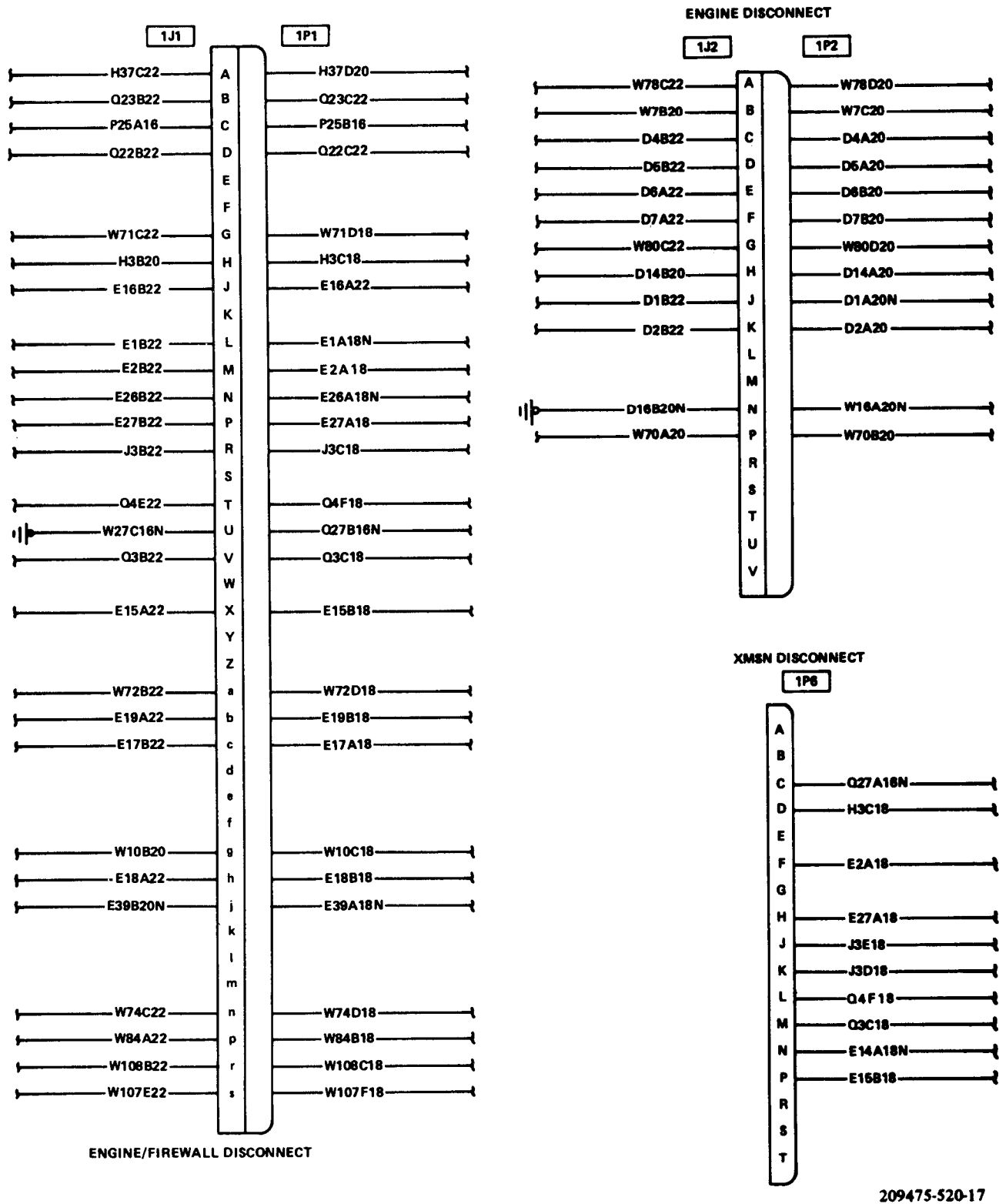


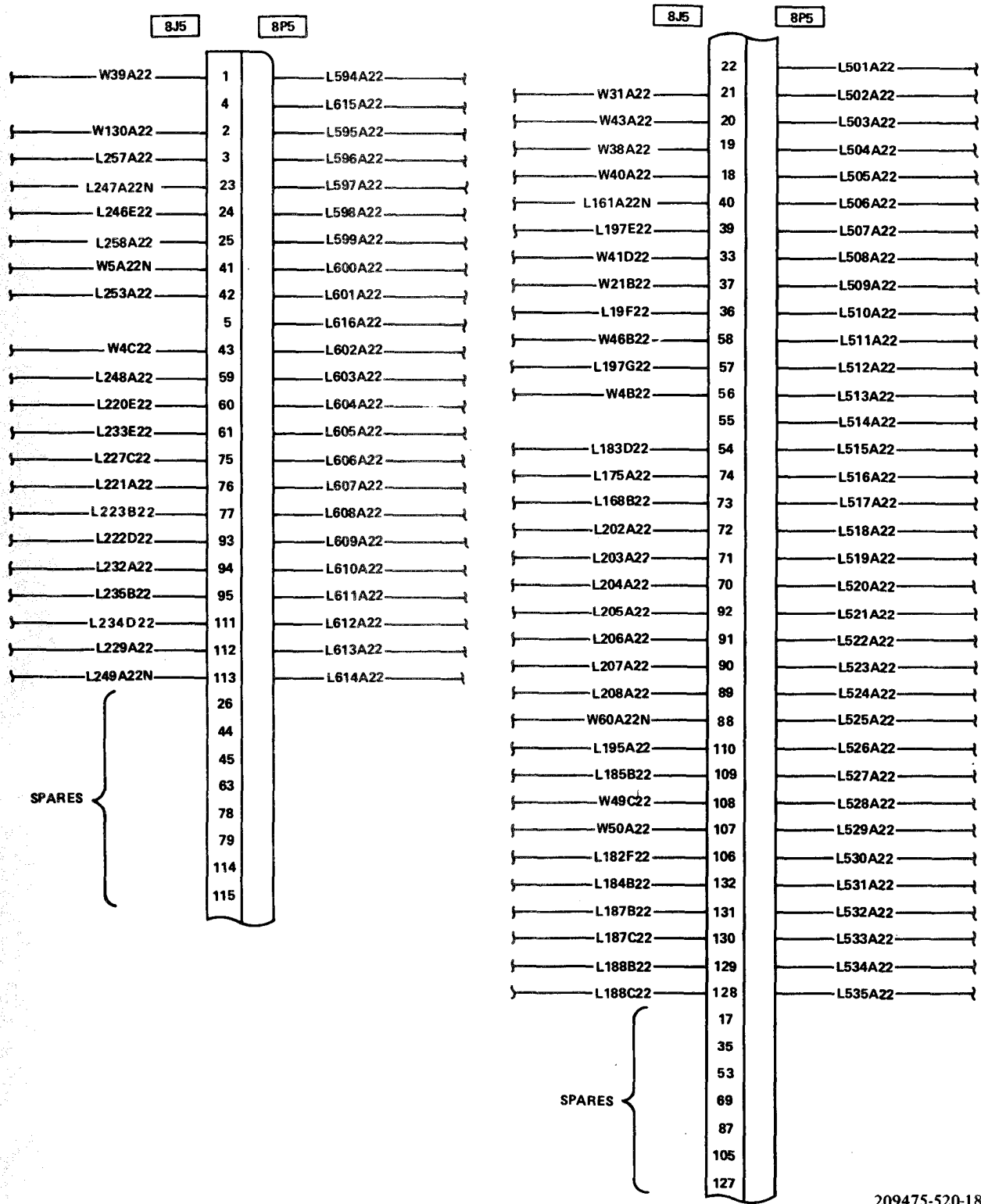
Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 9 of 38)

Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 10 of 38)



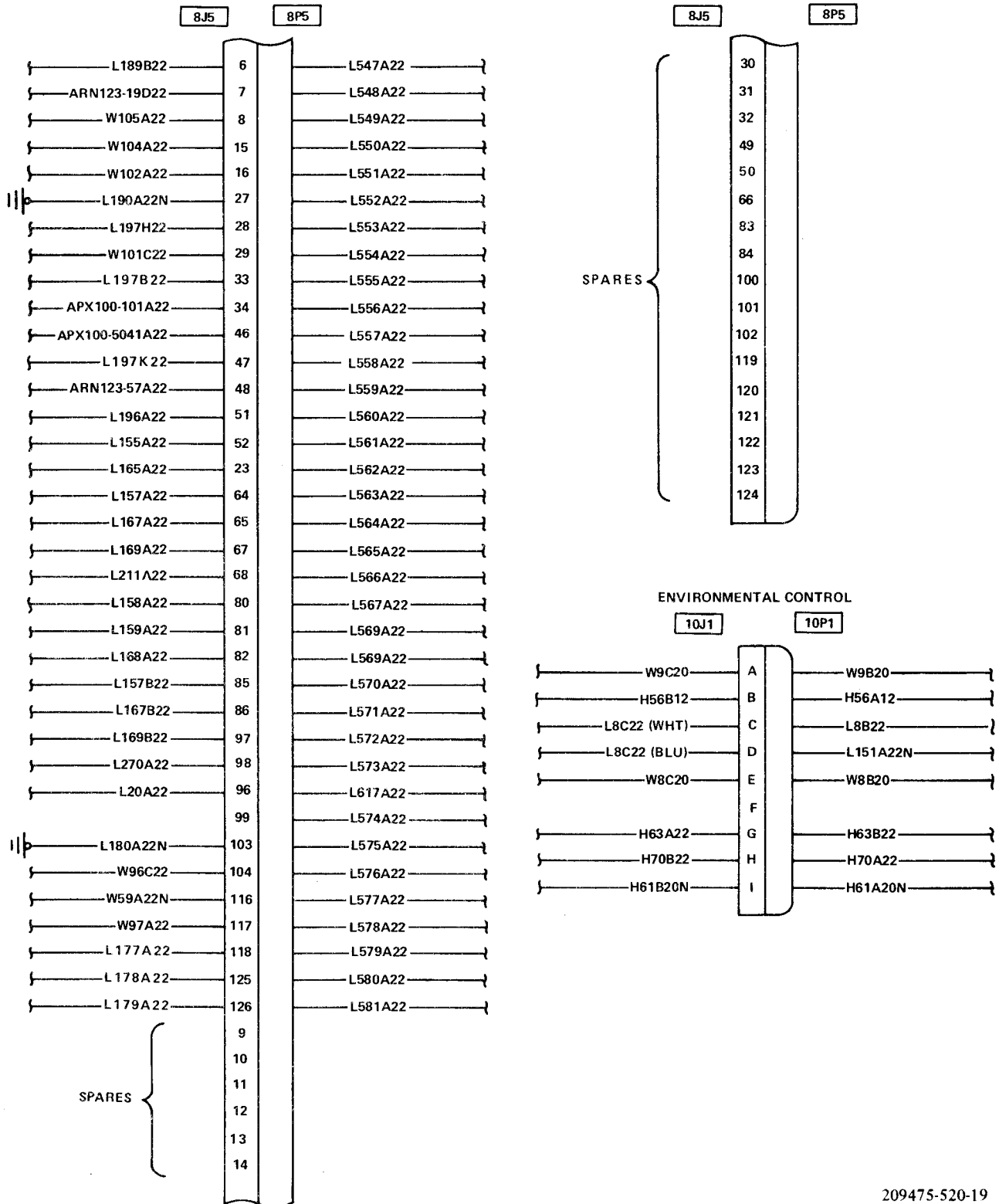
209475-520-17

Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 11 of 38)



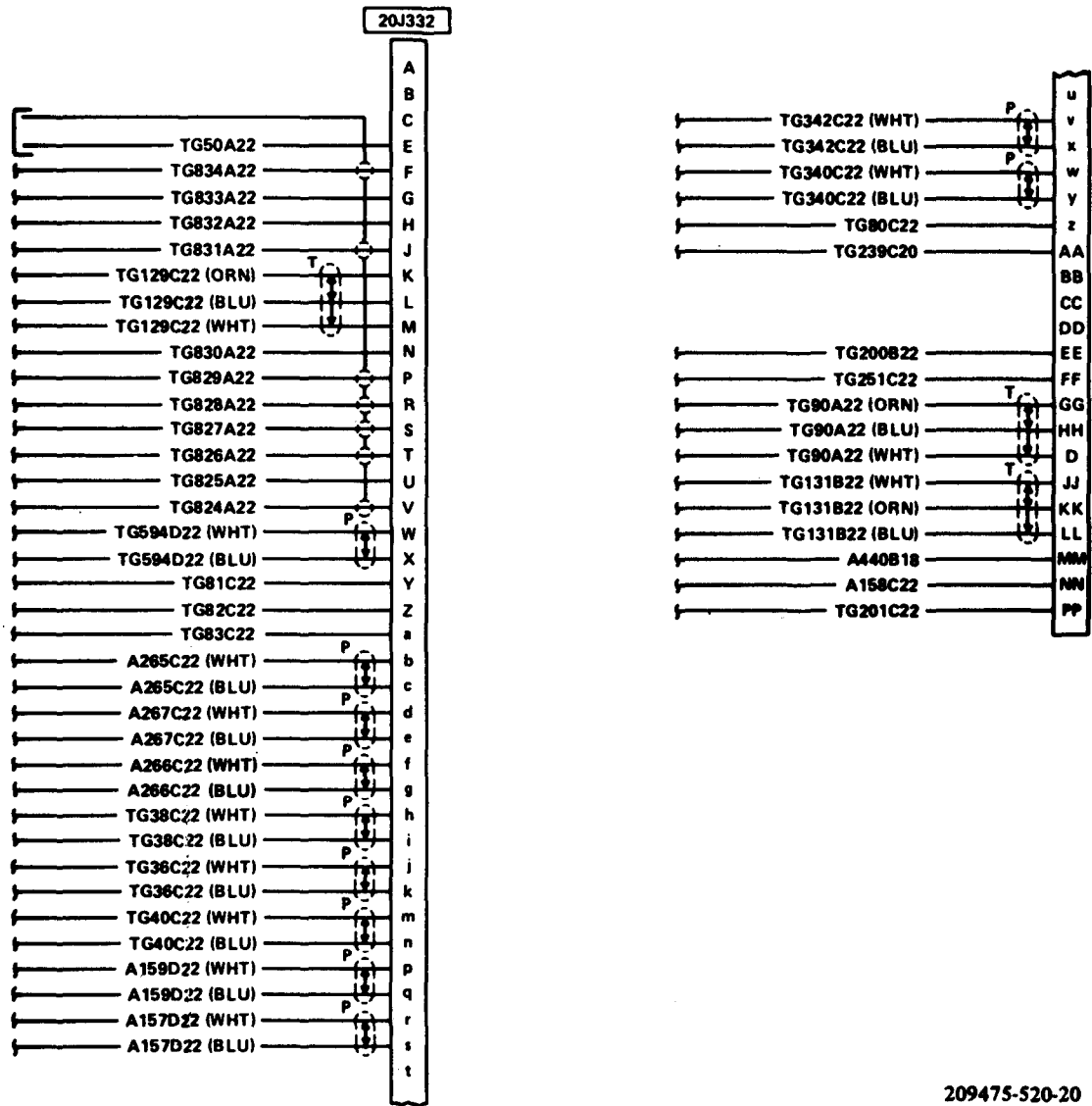
209475-520-18

Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 12 of 38)



209475-520-19

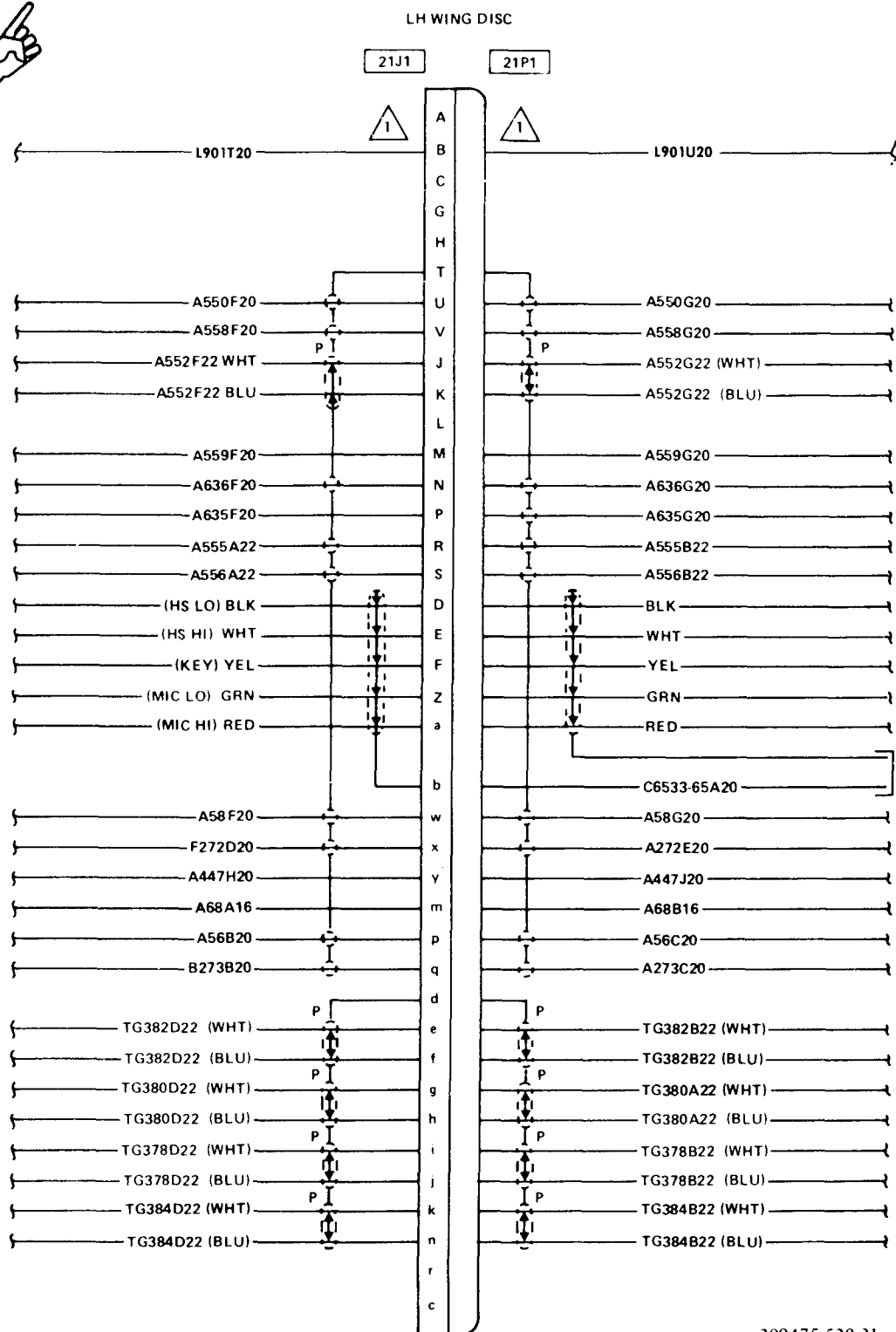
Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 13 of 38)



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Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 14 of 38)

 After MWO 55-1520-236-50-5



209475-520-21

Figure F-76.  Electrical Equipment Replacement (Sheet 15 of 38)

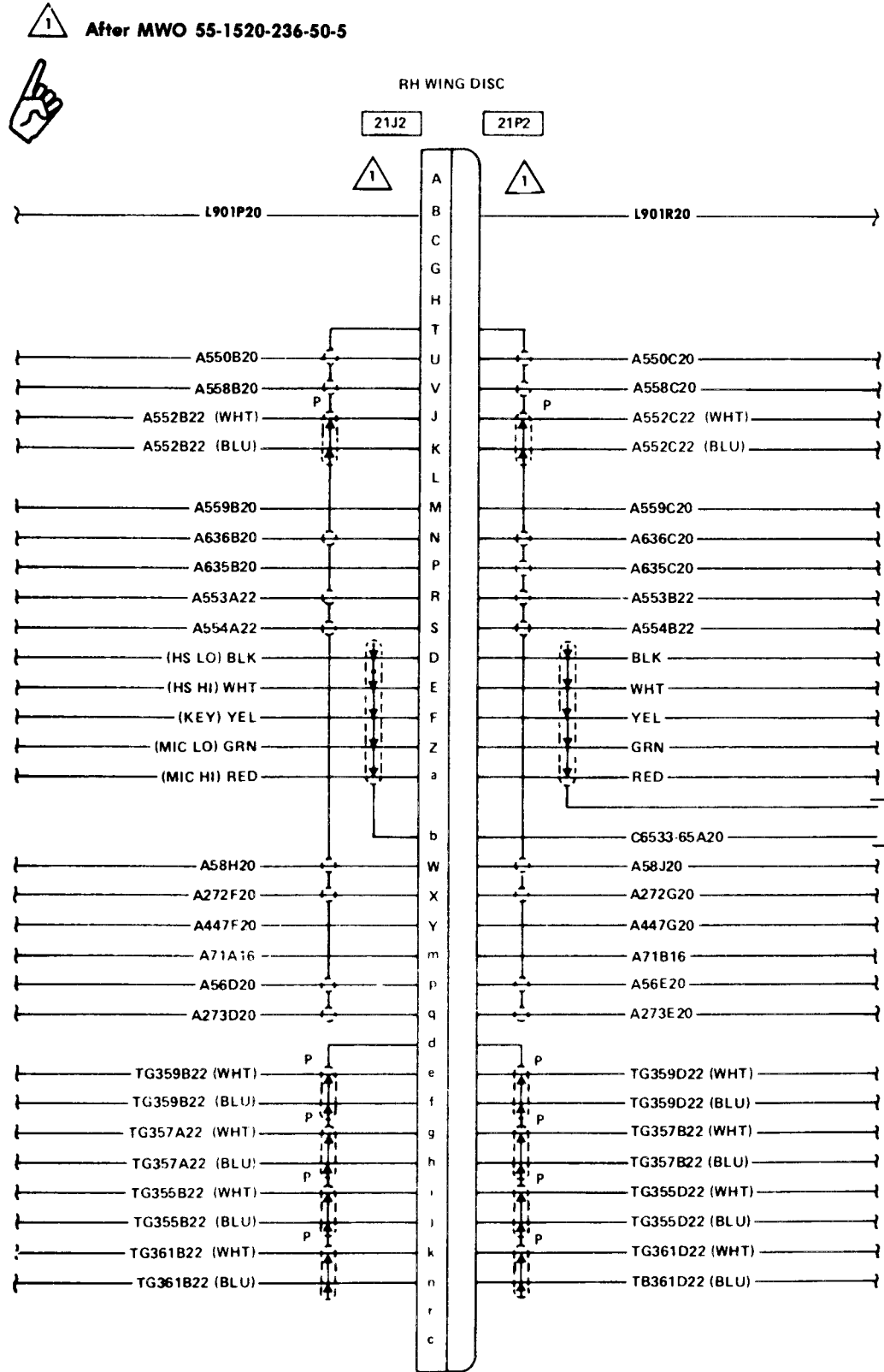
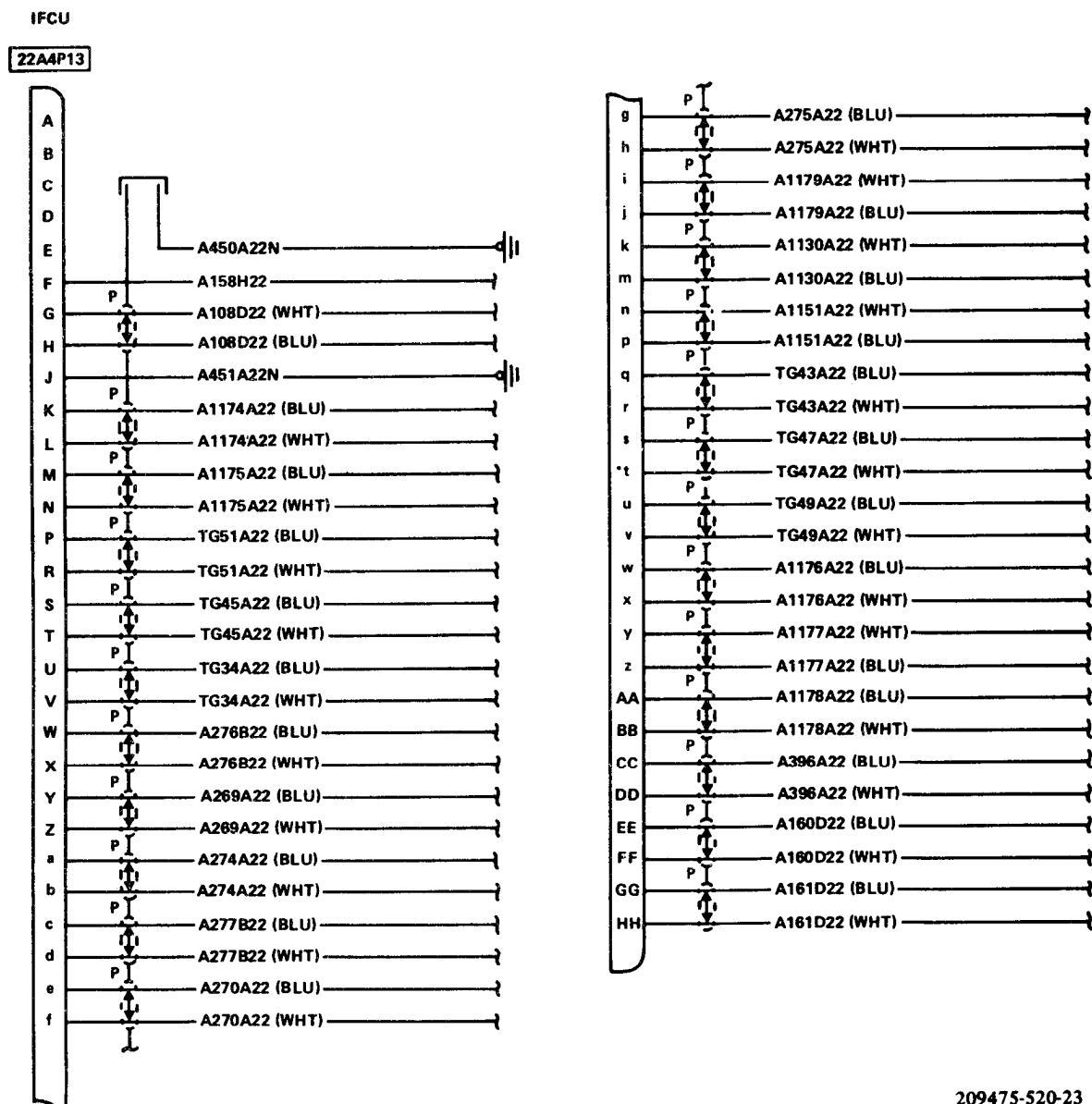
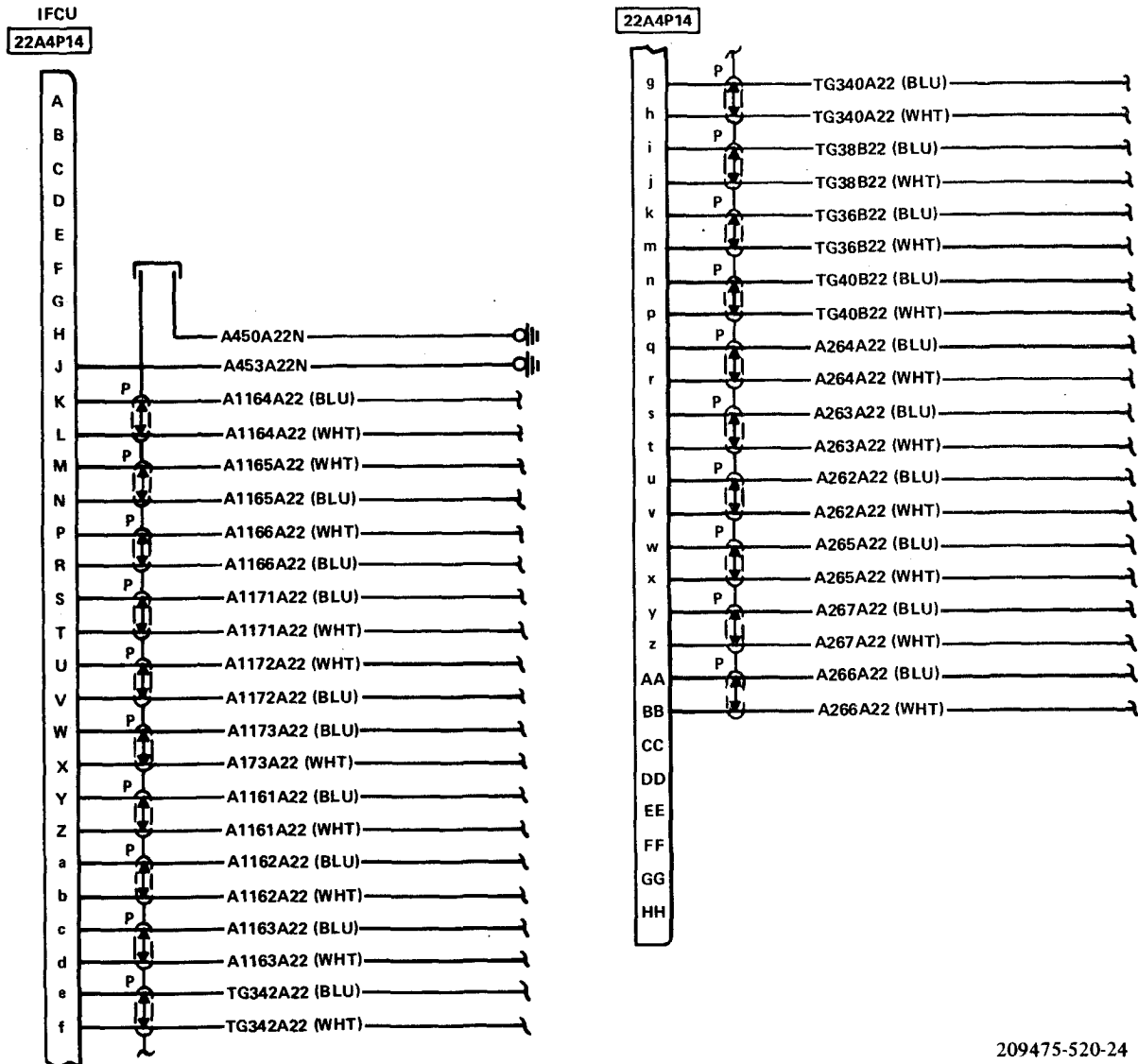


Figure F-76. **M** Electrical Equipment Replacement (Sheet 16 of 38)



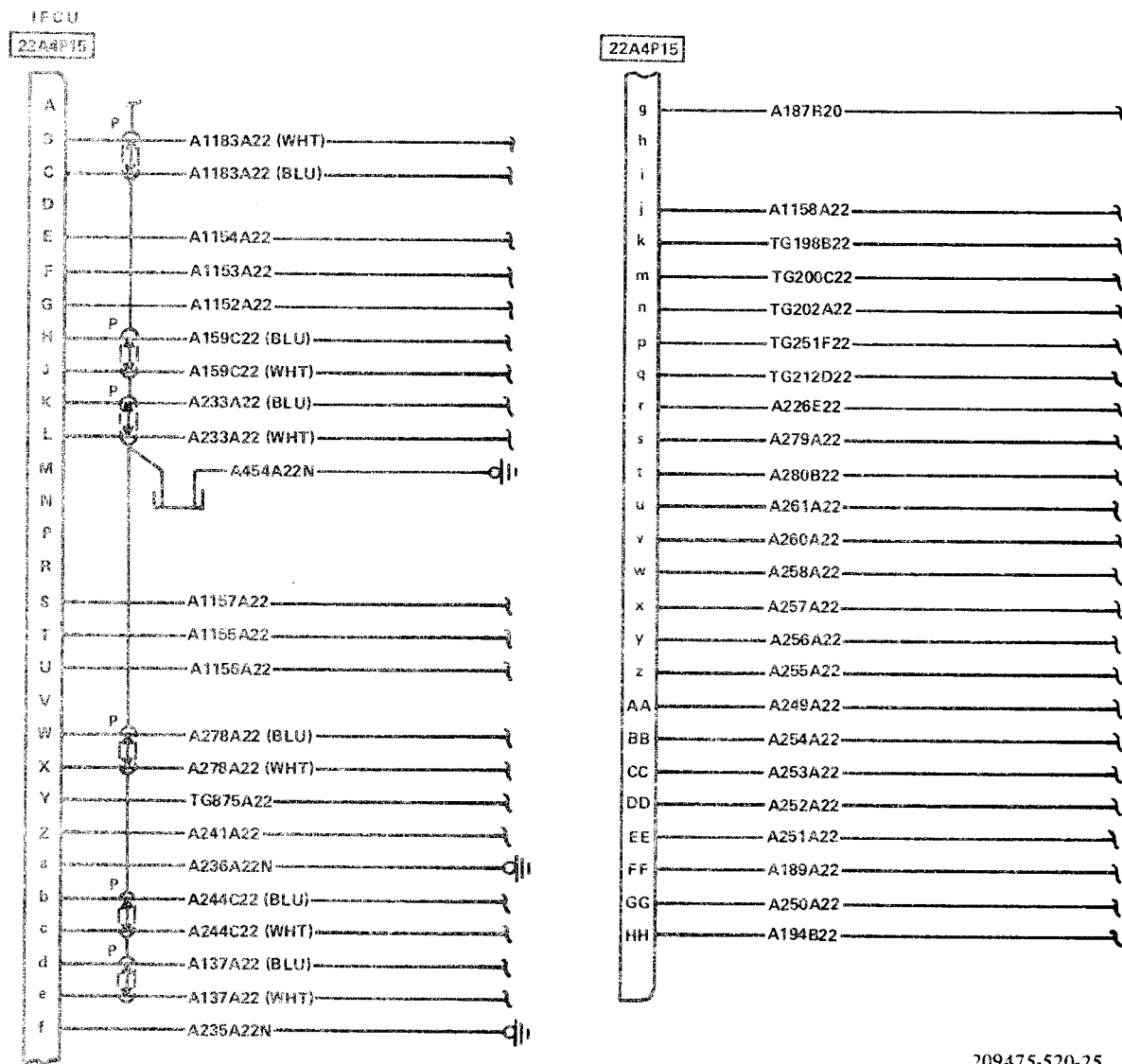
209475-520-23

Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 17 of 38)



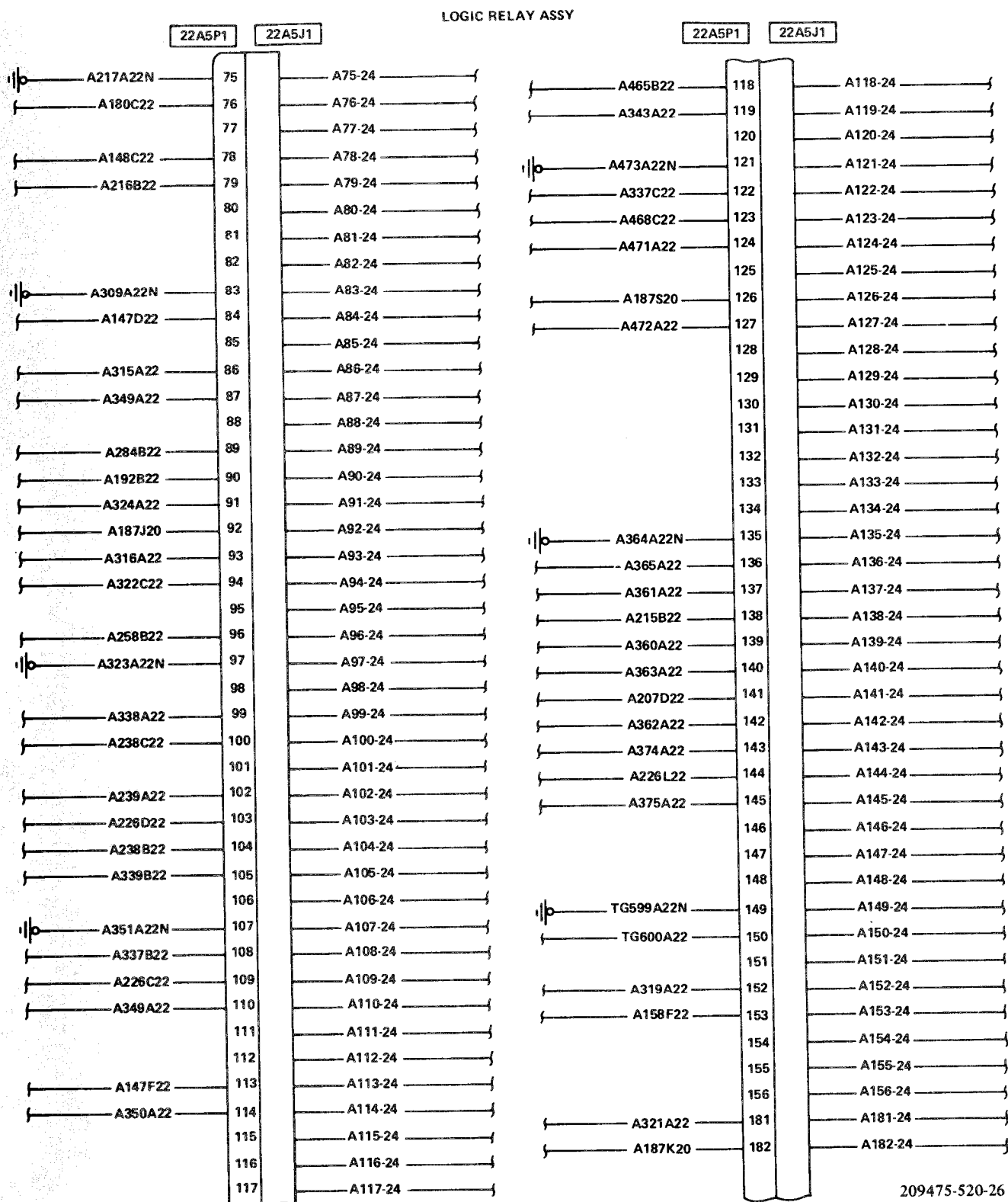
209475-520-24

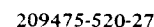
Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 18 of 38)



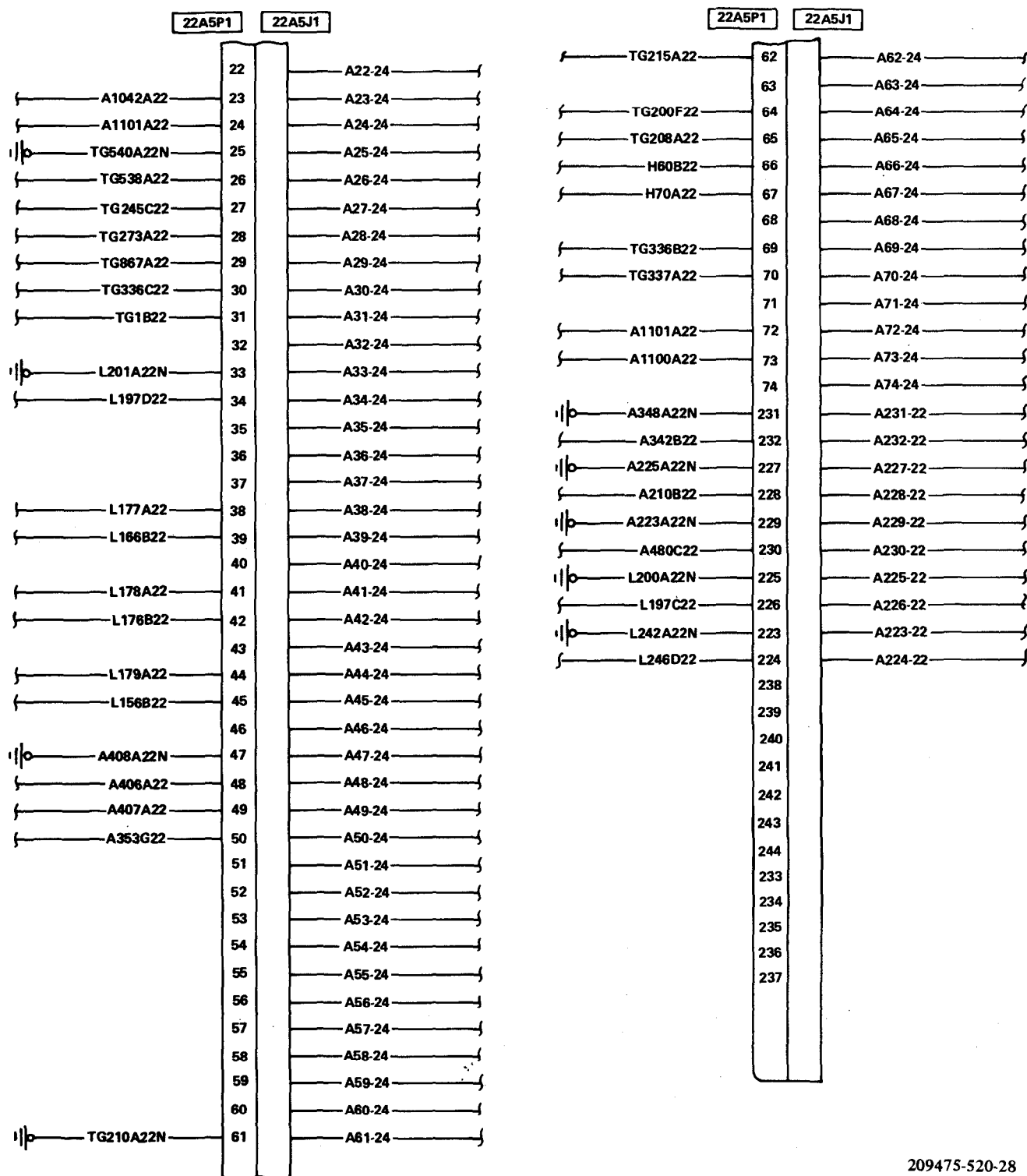
209475-520-25

Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 19 of 38)

Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 20 of 38)

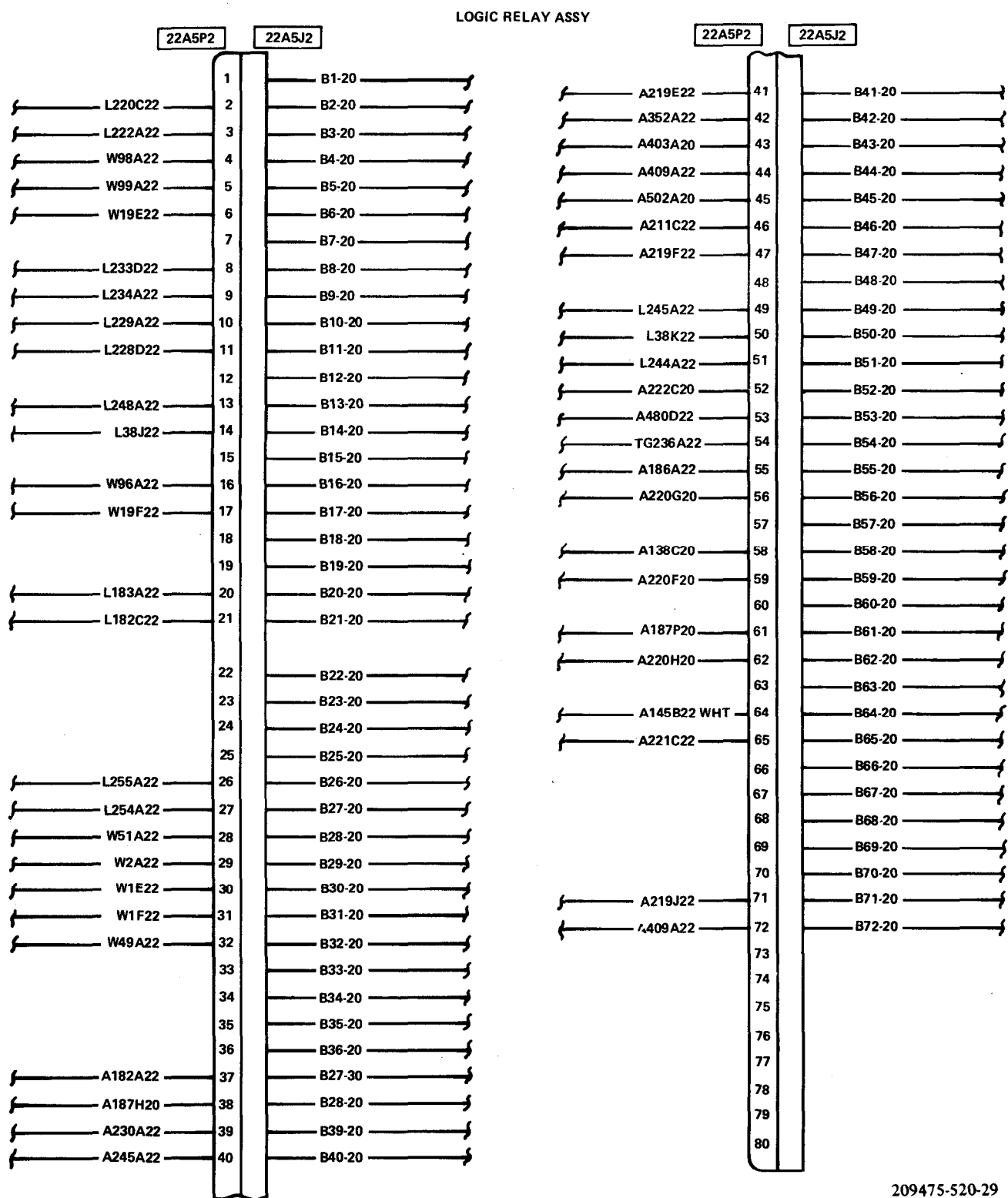


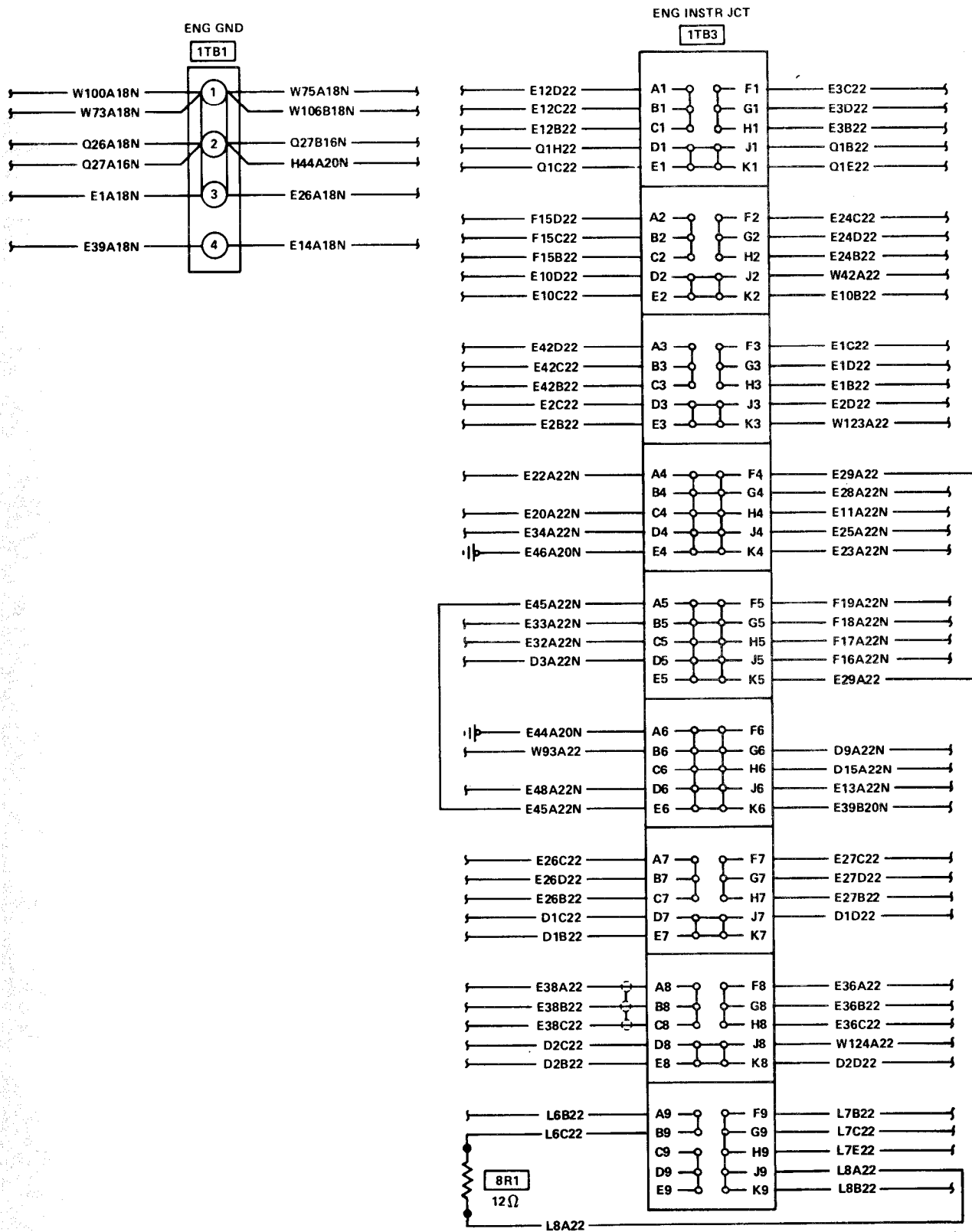
M



209475-520-28

Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 22 of 38)

Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 23 of 38)

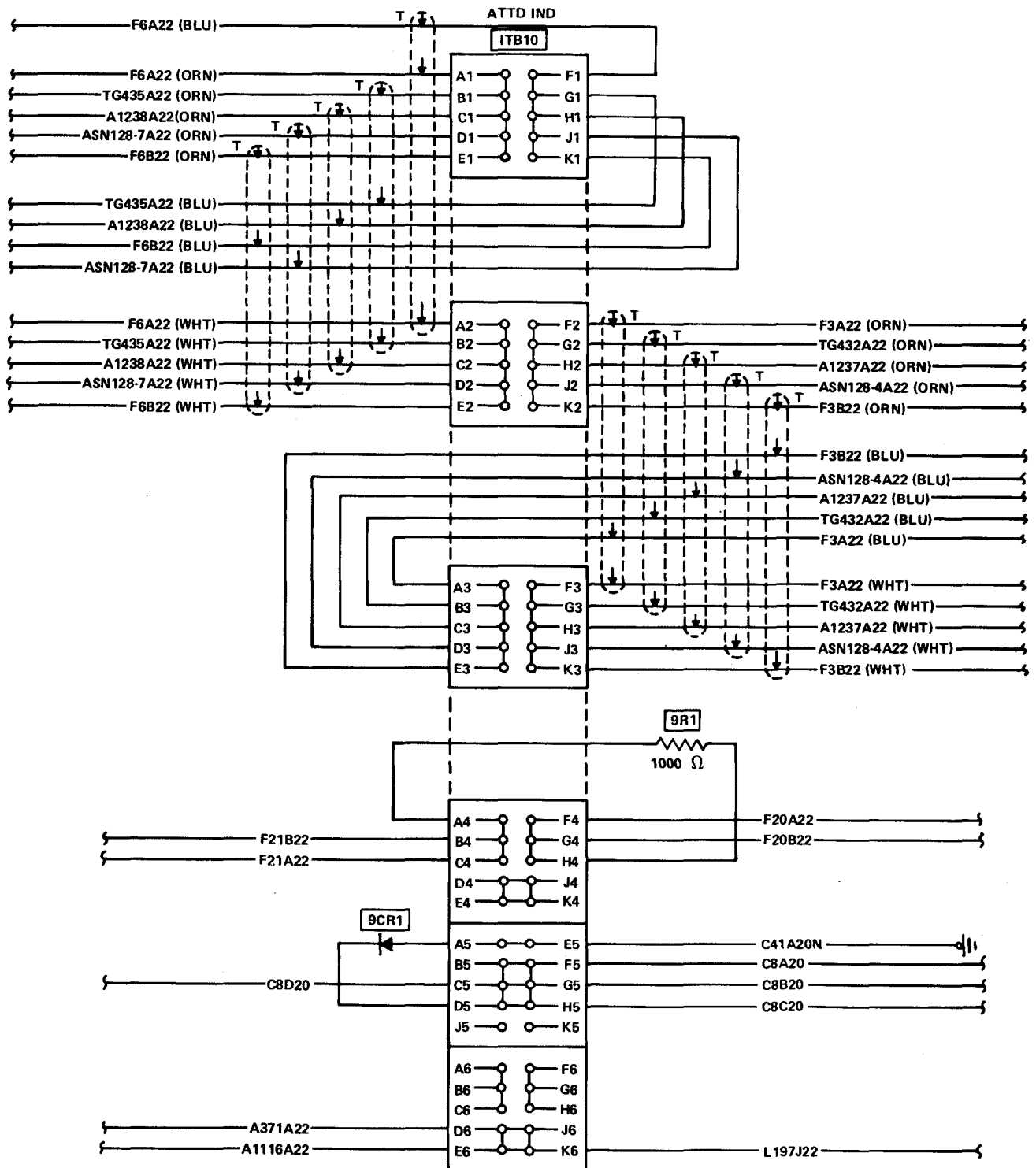


209475-520-30

Figure F-76.



Electrical Equipment Component Replacement (Sheet 24 of 38)



209475-520-31

Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 25 of 38)

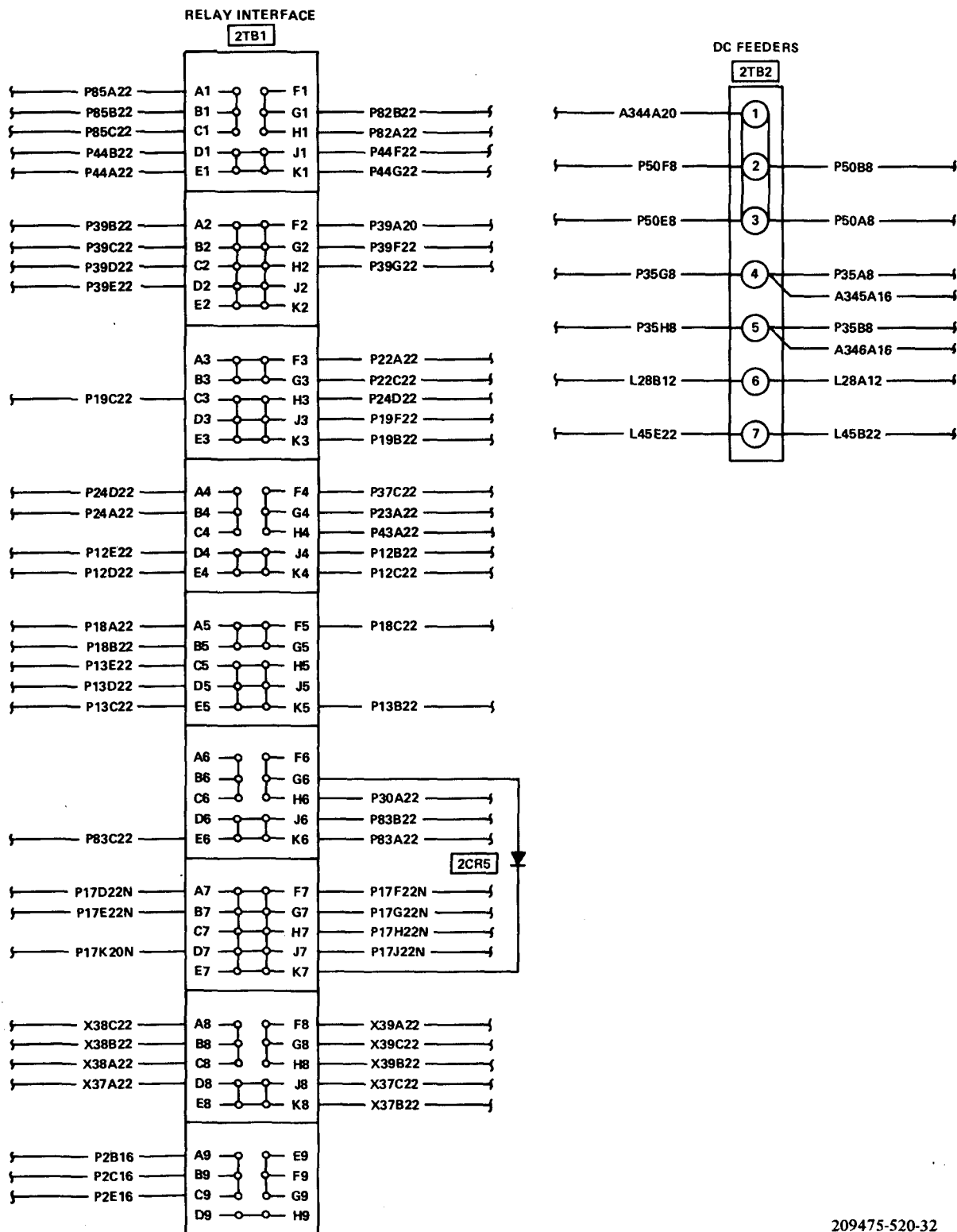
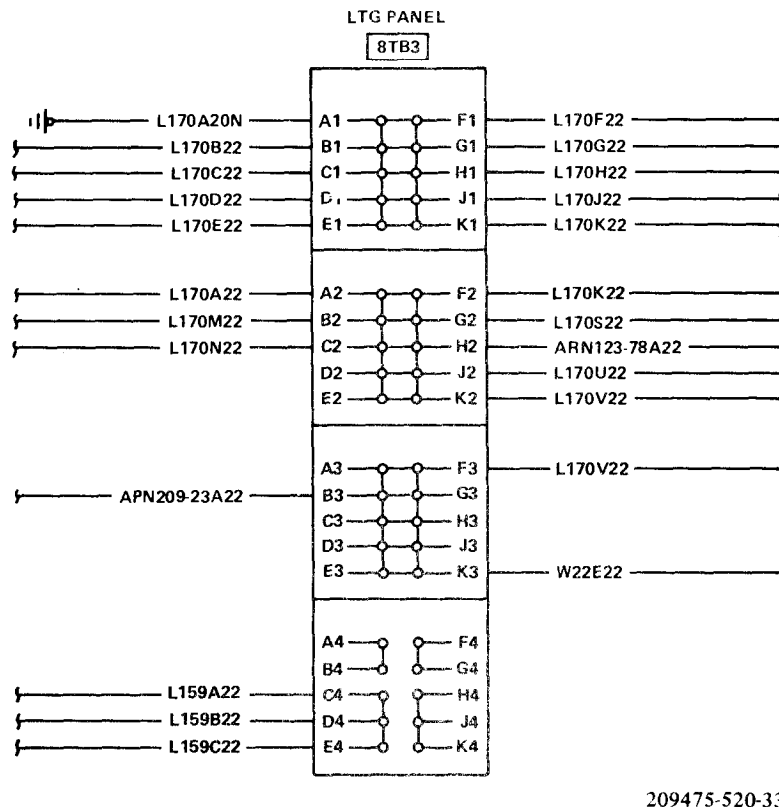


Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 26 of 38)



209475-520-33

Figure F-76. **M** | Electrical Equipment Component Replacement (Sheet 27 of 38)

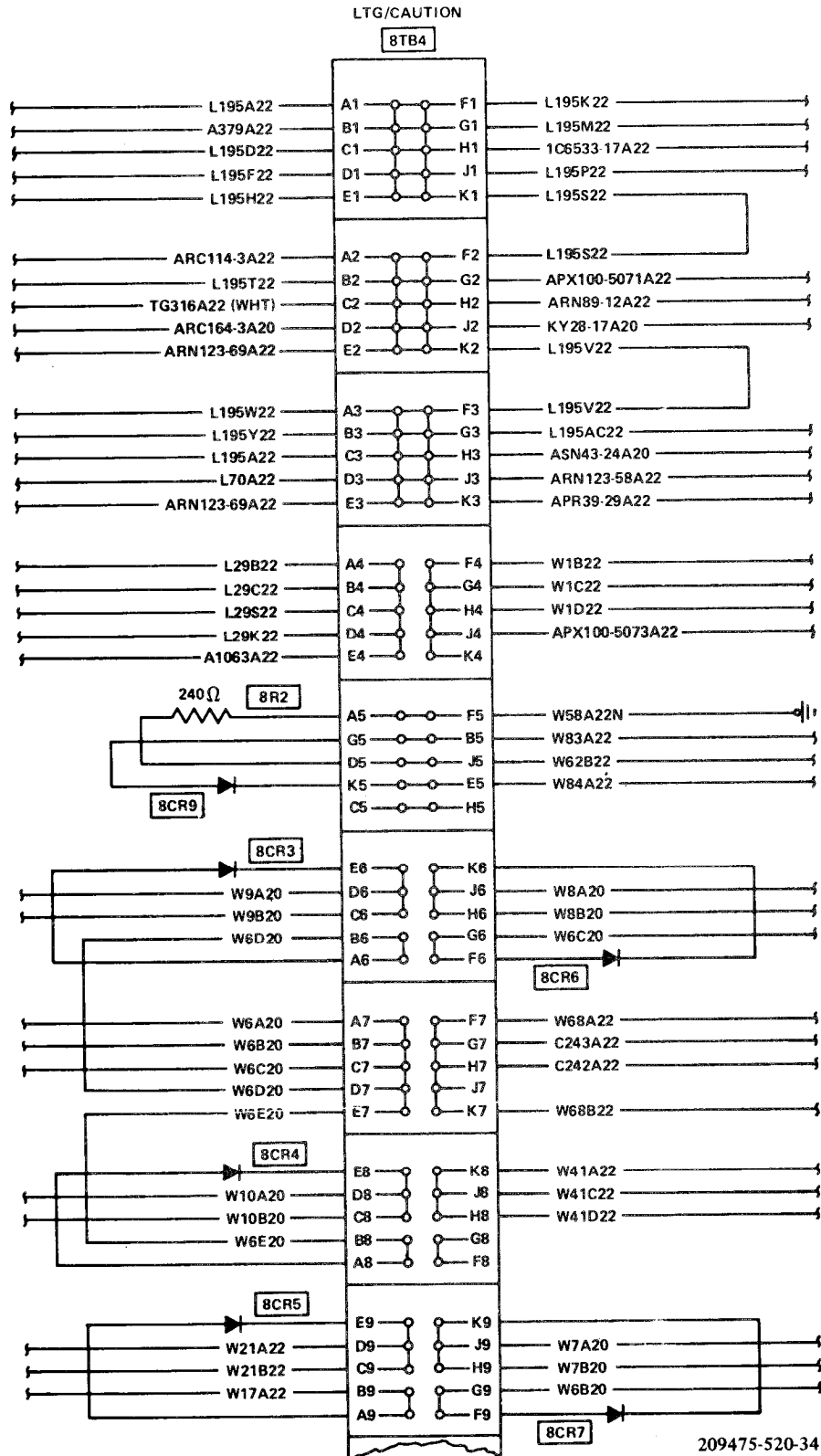


Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 28 of 38)

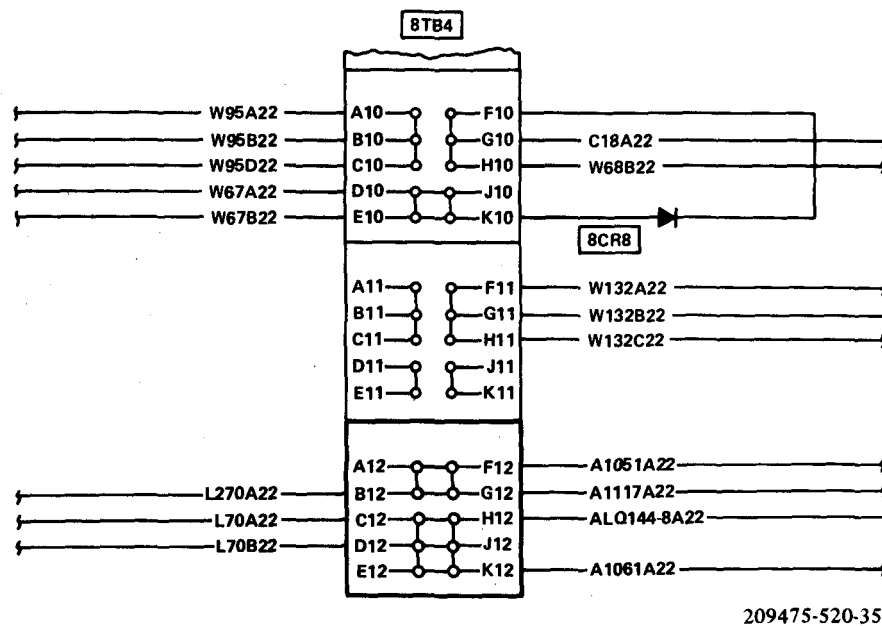


Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 29 of 38)

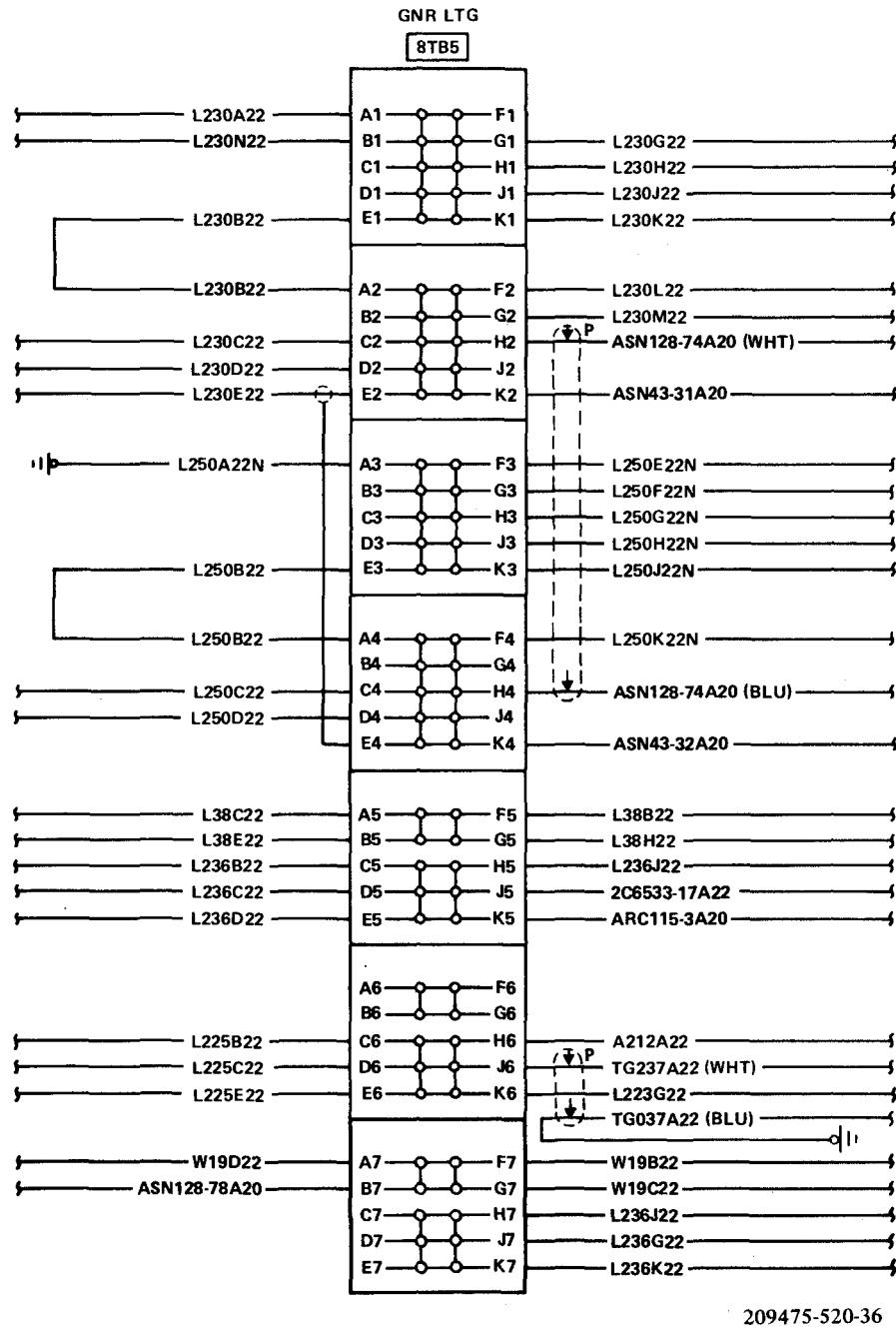


Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 30 of 38)

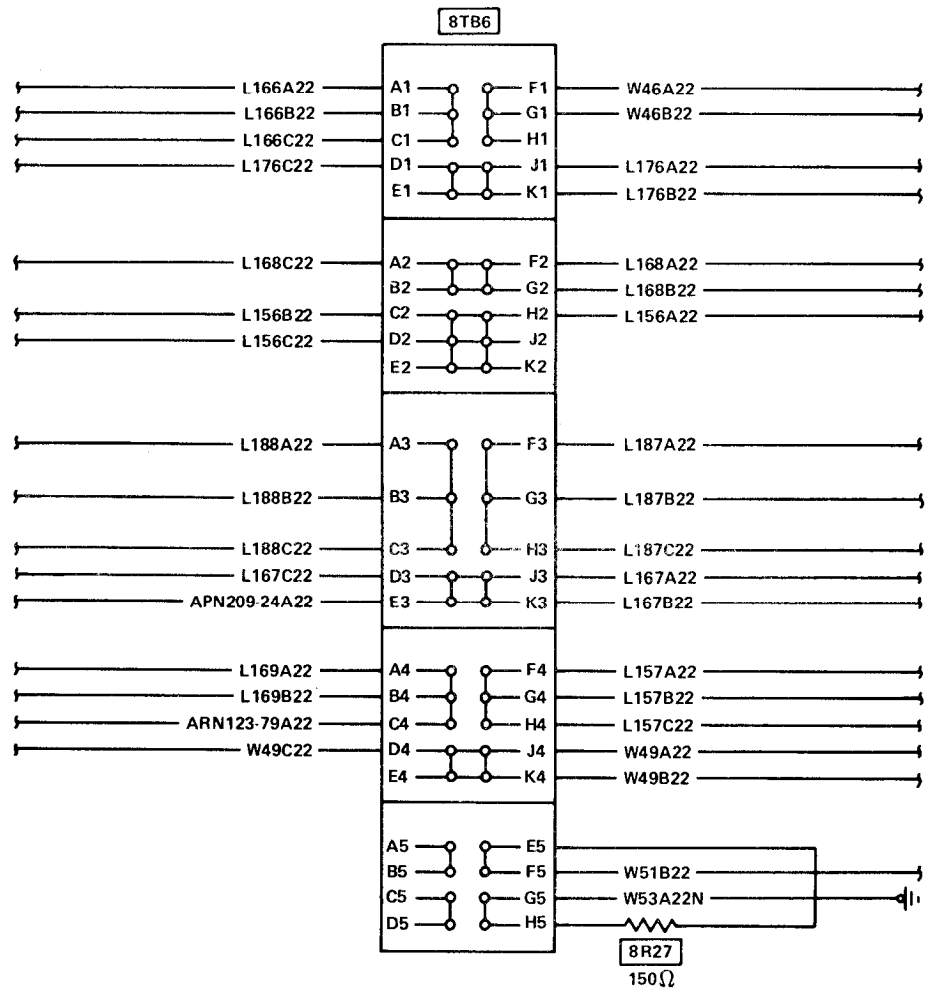


Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 31 of 38)

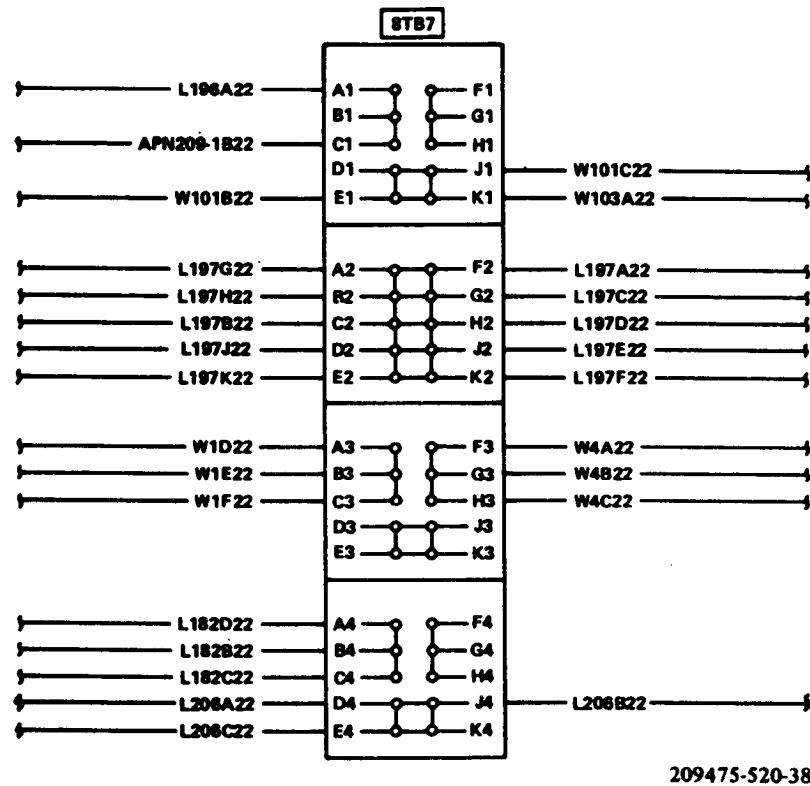
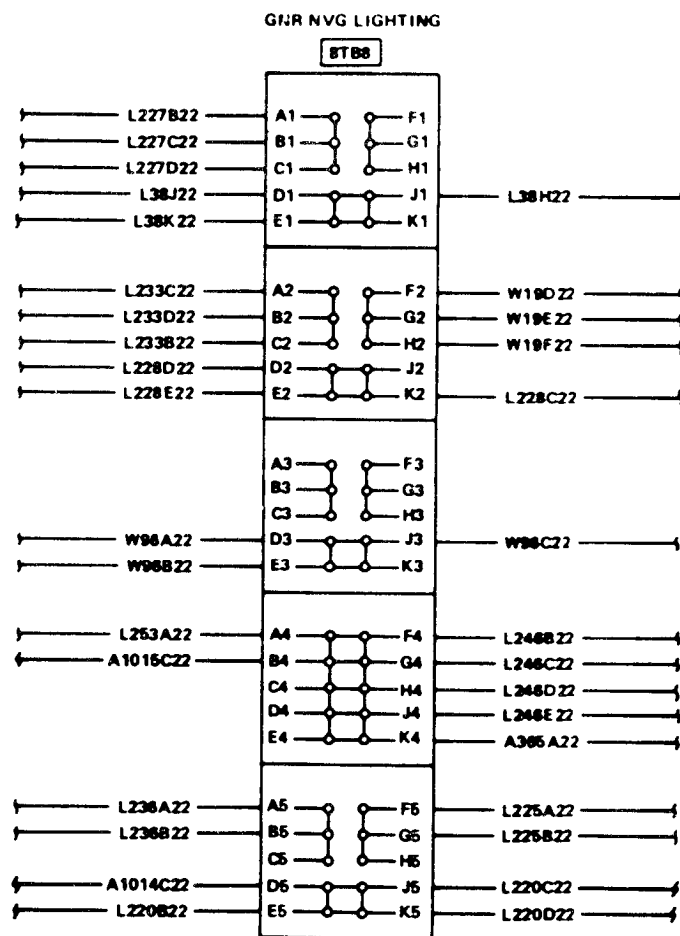


Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 32 of 38)

Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 33 of 38)

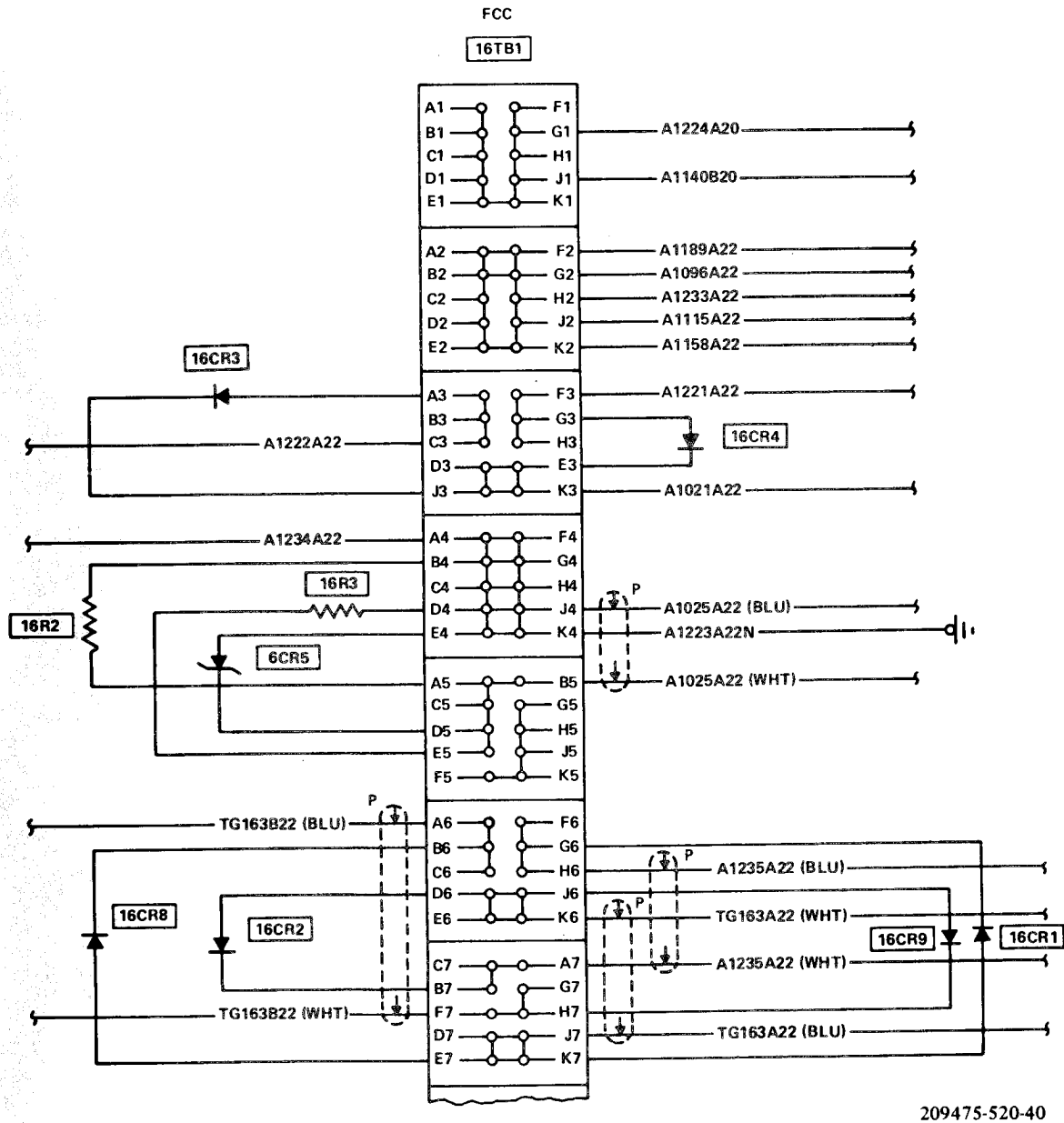
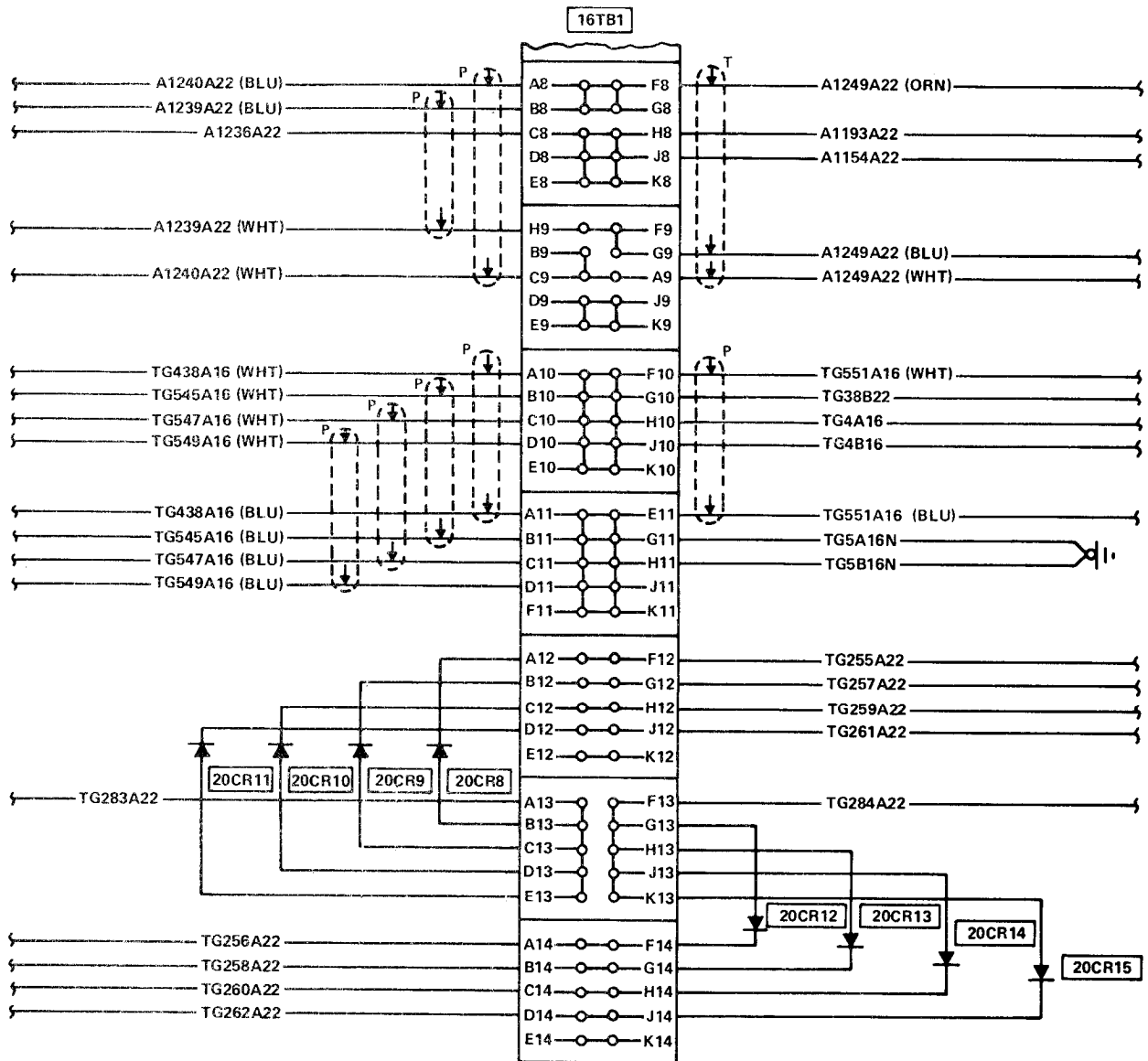
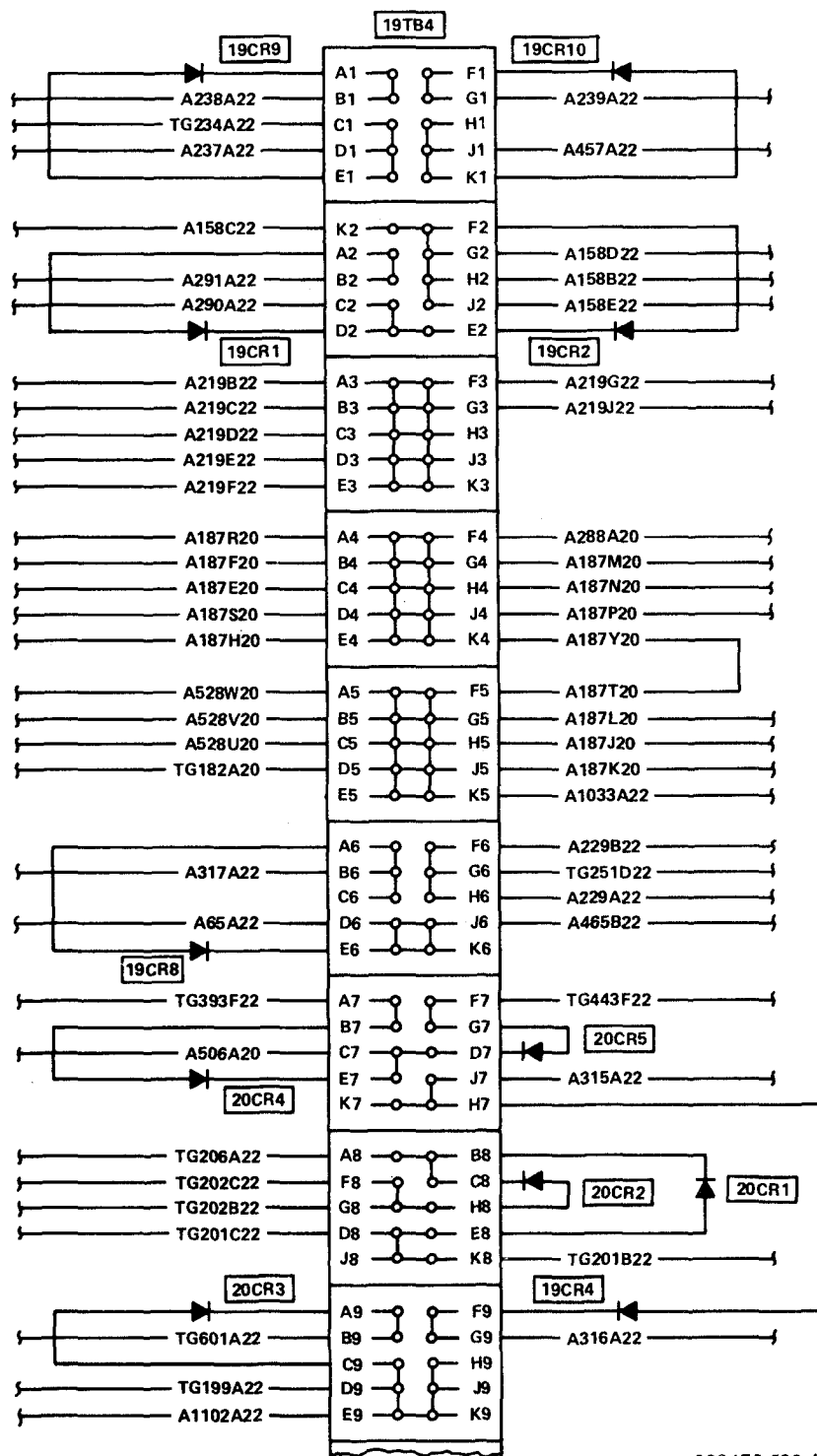


Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 34 of 38)



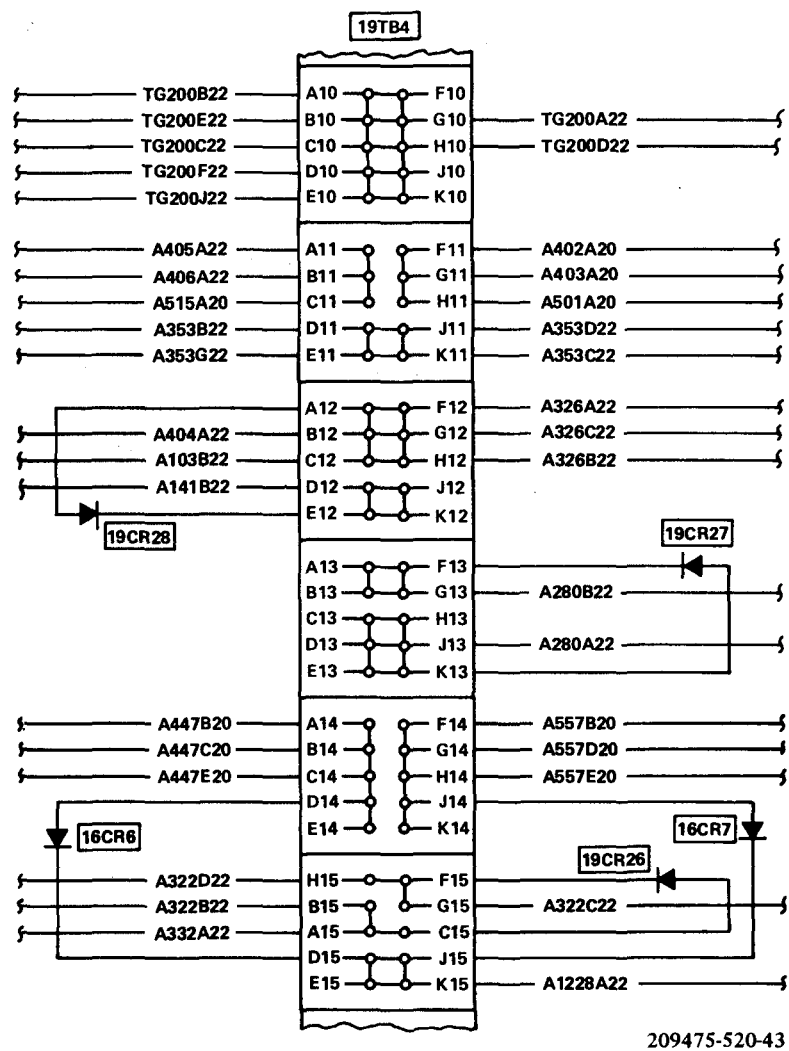
209475-520-41

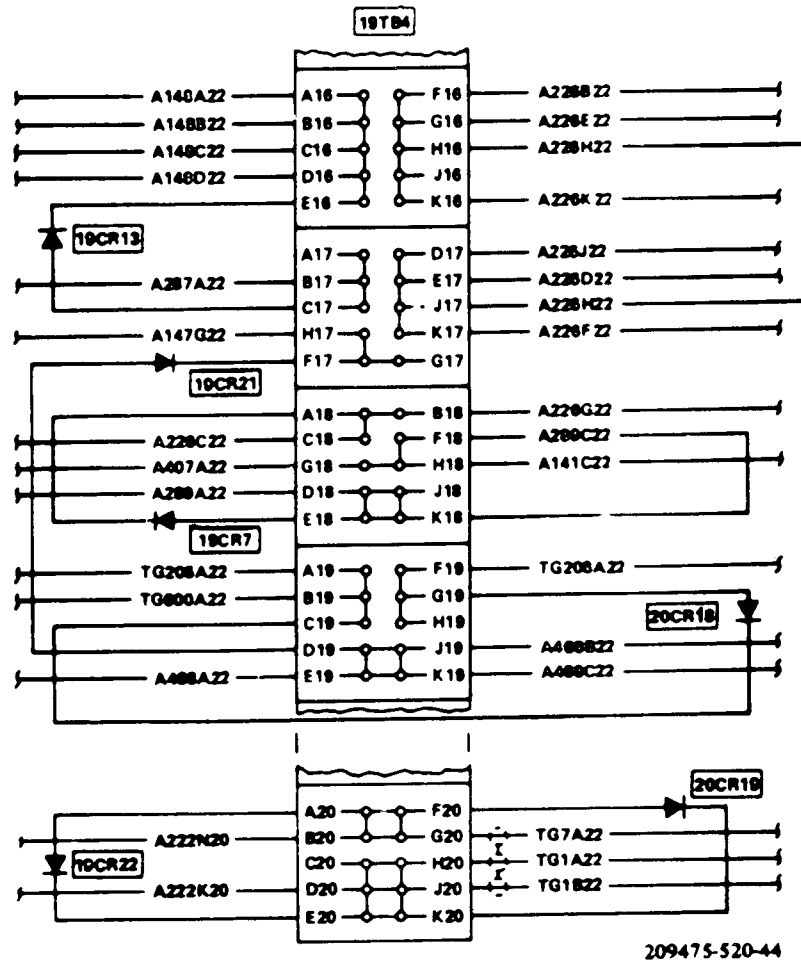
Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 35 of 38)



209475-520-42

Figure F-76. **M** | Electrical Equipment Component Replacement (Sheet 36 of 38)

Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 37 of 38)



⚠ After MWO 55-1520-236-50-18

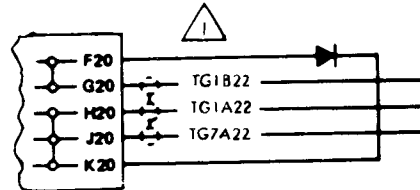


Figure F-76. **M** Electrical Equipment Component Replacement (Sheet 38 of 38)

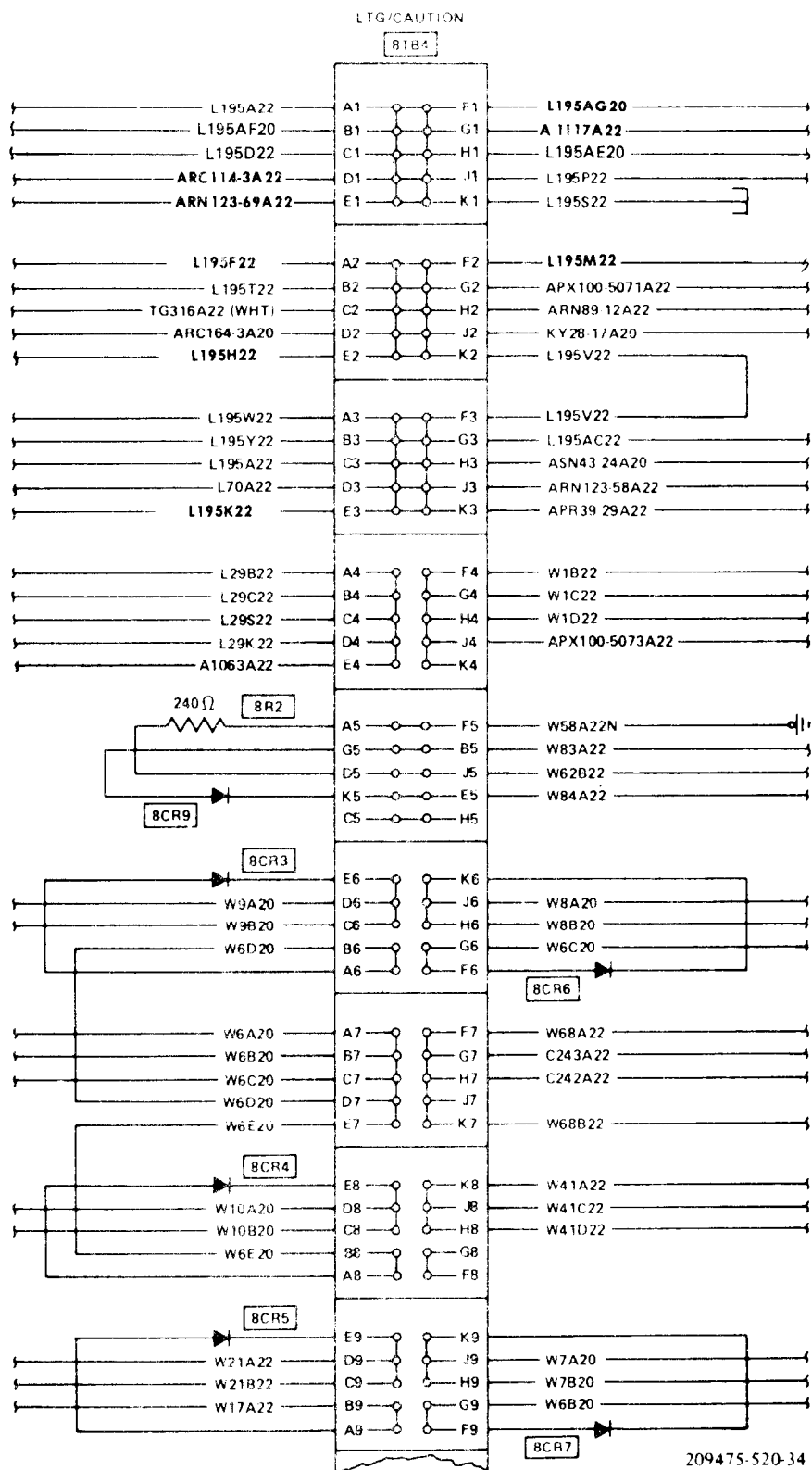


Figure F-77. **M** Electrical Equipment Component Replacement
(After MWO 55-1520-236-50-4) (Sheet 1 of 3)

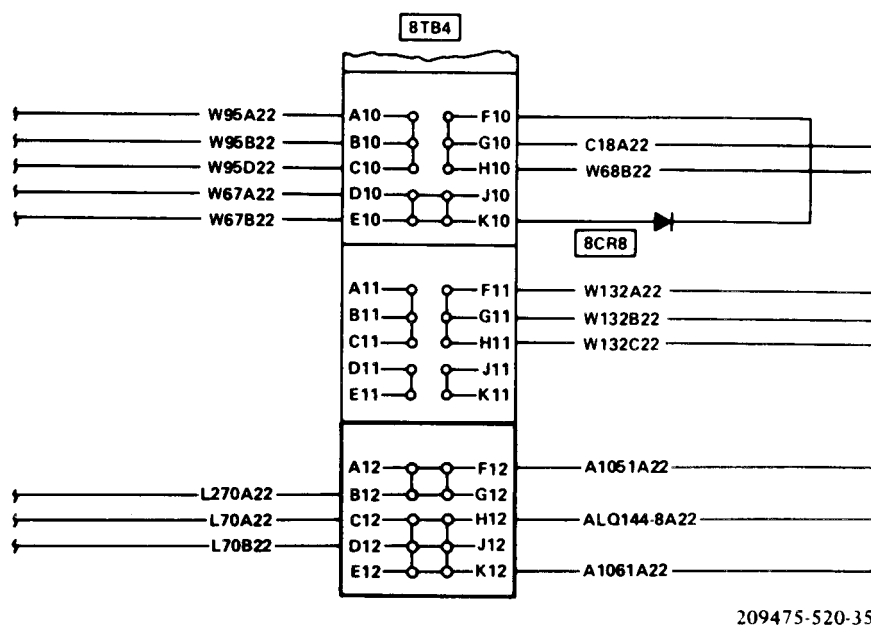


Figure F-77. **M**Electrical Equipment Component Replacement
(After MWO 55-1520-236-50-4) (Sheet 2 of 3)

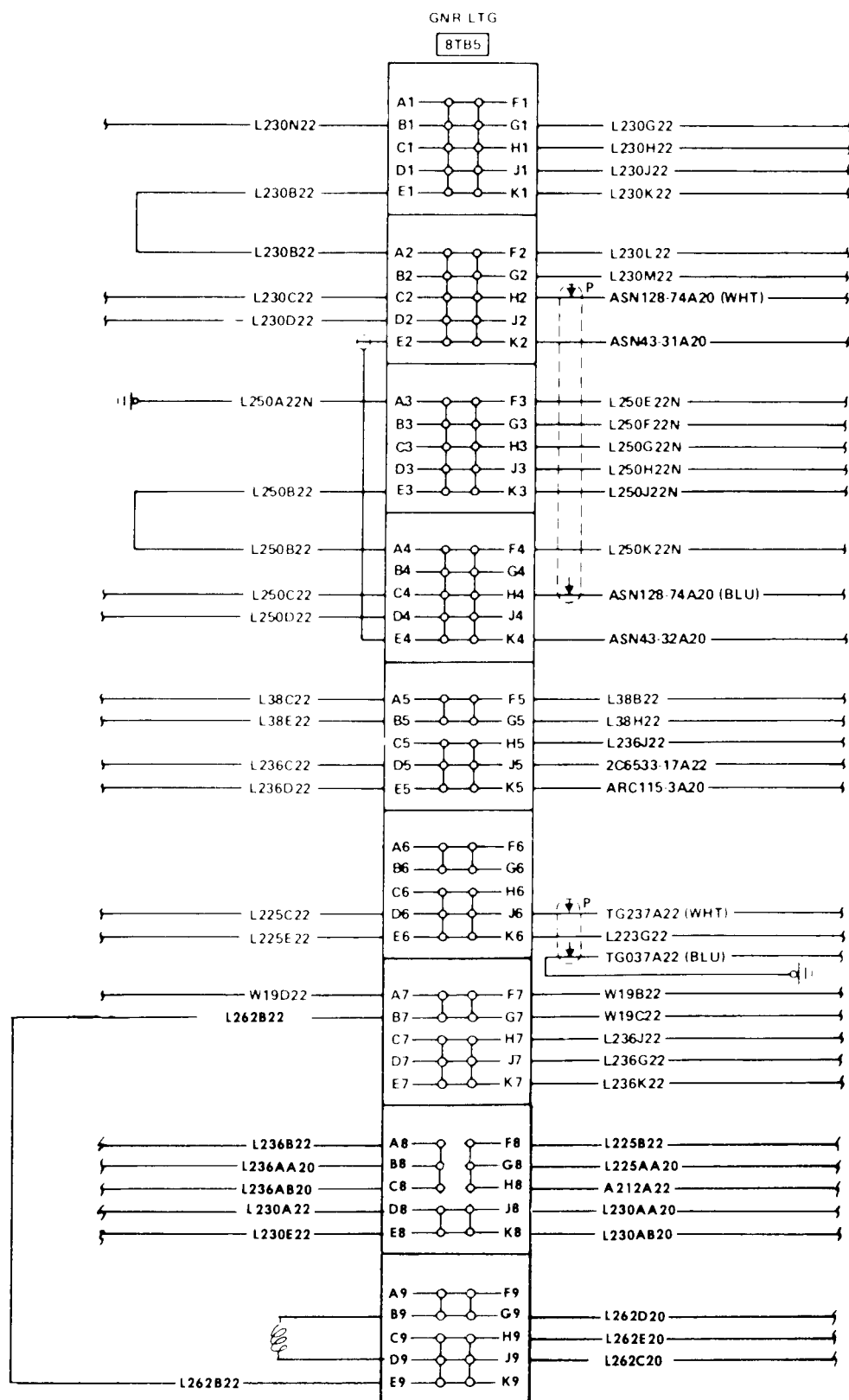
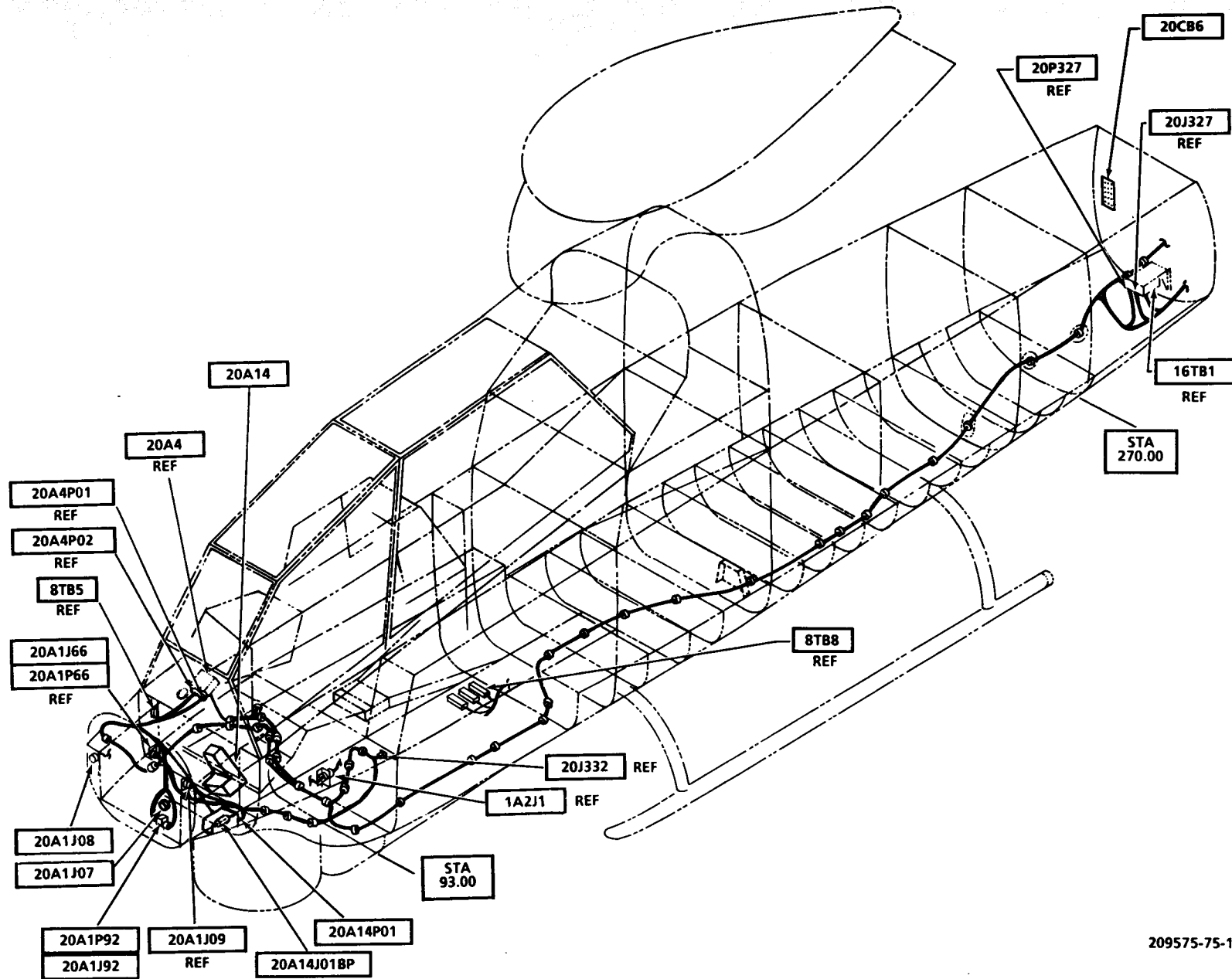
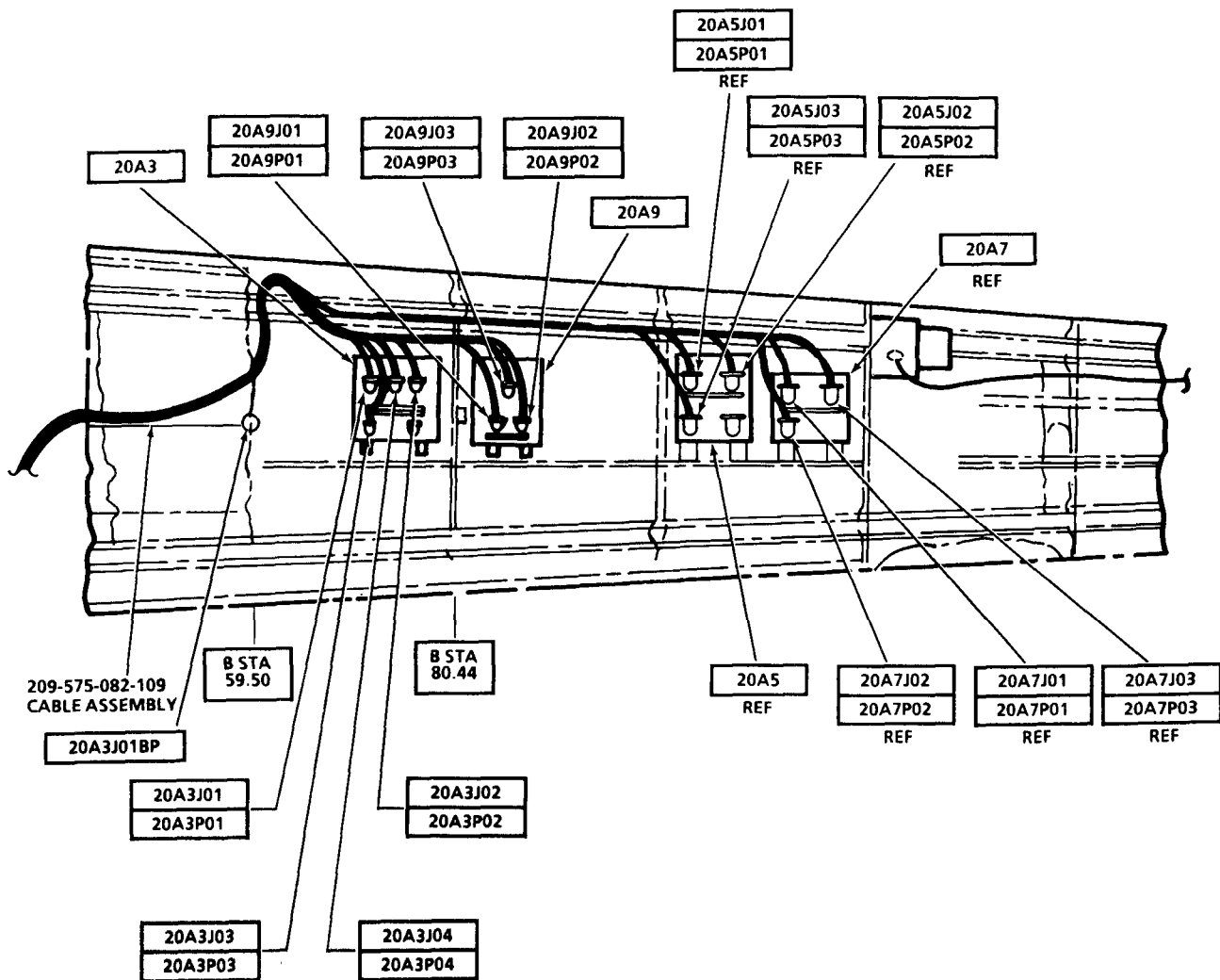


Figure F-77. Electrical Equipment Component Replacement (Sheet 3 of 3)
(After MWO 55-1520-236-50-4)



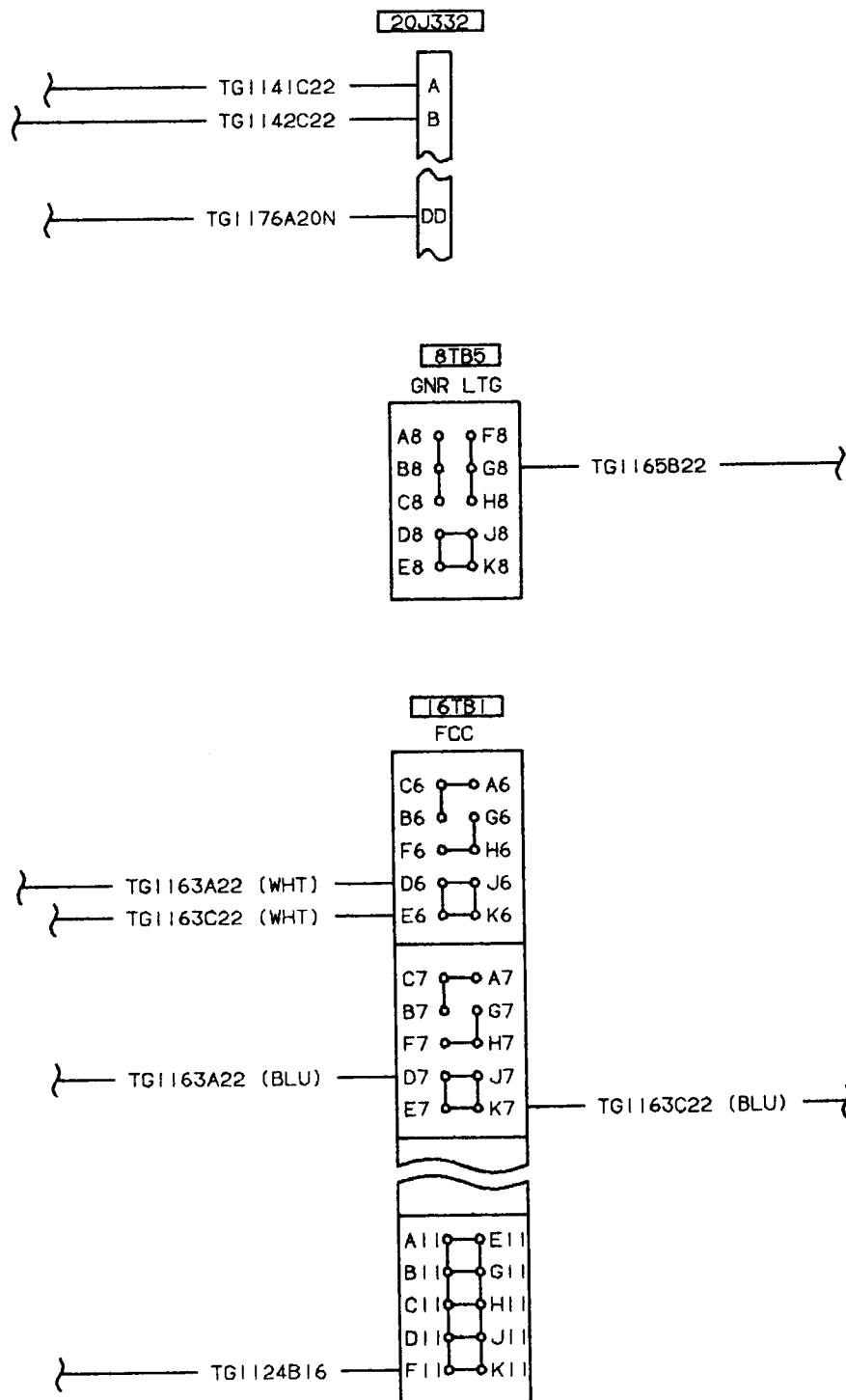
209575-75-1A

Figure F-78. MCN C-NITE Subsystem (Equipment Location) (Sheet 1 of 2)



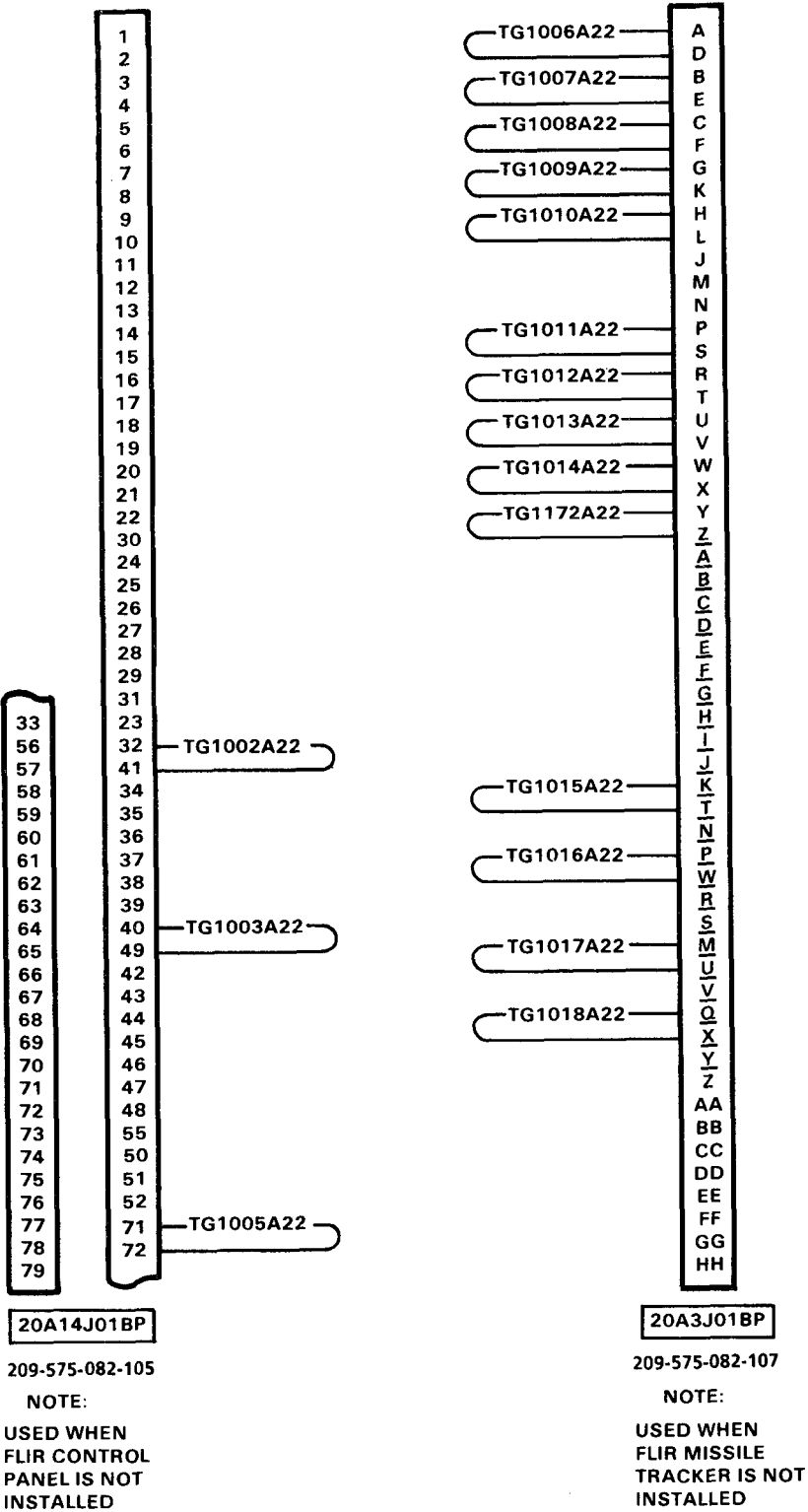
209575-75-2A

Figure F-78. **MCN** C-NITE Subsystem (Equipment Location) (Sheet 2 of 2)



209475-908

Figure F-79. **MCN** C-NITE Electrical Equipment Component Replacement



209575-76

Figure F-80. **MCN** FLIR Subsystem Jumper Cable Assemblies

APPENDIX G

WIRE LISTS

G-1 . GENERAL.

The following wire list is provided to present interconnecting wiring information in tabular form. The list is presented by two methods:

1. Wire number to beginning and termination points (reference designations).
2. Beginning point, wire number, termination point.

The point at which a wire begins is designated END 1. The point at which it terminates is designated END 2. The relationship of these points is subsequently reversed to provide alpha-numeric access to both.

Identification of connector pin number/letters varies by manufacturer and by drafting practice. Lowercase letters maybe designated by one of these conventions:

1. Lower case letter (a).
2. Lower case letter underlined(a).
3. Upper case letter underlined(A).

For the sake of consistency and readability, this list uses the third option, upper case letter underlined | (A), to indicate lowercase letters found on connectors and wiring diagrams.

CAUTION

Before removing tailboom from fuselage:
disconnect coax ARC-201/W1A from
bracket at BS211, open clamps securing
coax to tailboom, direct coax forward to
fuselage area, and secure coax in
fuselage.

NOTES:

- Information is applicable after MWO 55-1520-236-50-4 is incorporated.
- ~~Z~~ Wires are reterminated after MWO 55-1520-236-50-4 is incorporated. See Wire Number list for information.
- • • Information is Applicable after MWO 55-1520-236-50-5 is incorporated.
- • • • Information is applicable after MWO 55-1520-236-50-23 is incorporated.
- # Wires reterminated on C-NITE equipped helicopters.
- ## Wires deleted on C-NITE equipped helicopters.

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
AIM1A22 (WHT)	AIMP1	1	AIMTB1	1		x		
AIM1B22	K1		AIMTB1	1		x		
AIM2A22N (BLU)	AIM1P1	2	AIMTB1	2		x		
AIM2B22N	AIMTB1	2	GND			x		
AIM3A22	K1		3A1J2	A		x		
AIM3B22	3A1P2	A	19CB7			x		
AIM4A22 (WHT)	K1		SPLICE			x		
AIM4B22	19J250	LL	SPLICE			x		
AIM5A22 (BLU)	K1		19A4P249	T		x		
APN209-1B22	8TB7	C1	3408DS1P1	7	x	x		
APN209-23A22	8TB3	B3	3408DS1P1	5	x			
APN209-24A22	3408DS1P1	10	SPLICE		x	x	x	
APR39-29A22	8TB4	K3	3422CP1P1	13	x			
APRX72-768A22	8TB4	G2	3410CP1P1	12	x			
ARC114-3A20	8TB4	A2	2304TR1P1	C	x			
ARC114-3A20*	8TB4	D1	SPLICE		x			
ARC115-3A20	8TB5	K5	2303TR1P1	C	x			
ARC115-3A20*	8TB5	K5	SPLICE		x			
ARC116-3A20	8TB4	C2	2302TR1P1	C	x			
ARC201-6A20	2304TR1(A)	X	DSK-9-05061-1	1	x	x	x	
ARC201-7A20	2304P2	F	234B1P1	5	x	x	x	
ARC201-8A20N	2304B1P1	4	GRD		x	x	x	
ARC201-9A20	DSK-9-05061-1	C	2319CP1P1	J	x	x	x	
ARC201/W1A	2304AR1	P5	2304J1	0511	x	x	x	
ARC201/W1B	M39012/20	0101	2304P1	0503	x	x	x	
ARC-201/W2	2304TR1(A)	P3	2304AP1	P4	x	x	x	
ARN89-12A22	8TBA	H2	3406R1P1	M				
ARN123-58A22	8TB4	J3	3405CP1P1	21				
ARN123-69A22	8TB4	E3	3400CP1P1	L				
ARN123-69A22*	8TB4	E1	SPLICE					
ARN123-78A22	8TB3	H2	3400DS1P1	62				
ARN123-79A22	8TB6	C4	3400DS1P1	63				
ARN123-79A22*	8TB6	C4	SPLICE					
ASN43-24A20	8TB4	H3	3407CP1P1	U				
ASN43-31A20	8TB5	K2	3400DS2P1	H				
ASN43-32A20	8TB5	K4	3400DS2P1	K				
ASN128-1A22(WHT) #	3400TB1	A10	3400TB1	12D	x	x		
ASN128-1A22(BLU) #	3400TB1	F10	3400TB1	12A	x	x		
ASN128-1A22(ORN) #	3400TB1	F11	3400TB1	12F	x	x		
ASN128-76B20BLU	16A1P2	44	SPLICE		x	x		
ASN128-14A22WHT	3400DS1P1	68	3TB2	K2	x	x		
ASN128-14B22(BLU)	3400DS2P1	D	3TB2	J3	x	x		
ASN128-14B22(WHT)	3400DS2P1	V	3TB2	J2	x	x		
ASN128-14C22(BLU)	3425A1P1	U	3TB2	G3	x	x		
ASN128-14C22(WHT)	3425A1P1	T	3TB2	G2	x	x		
ASN128-76B20(WHT)	16A1P2	20	SPLICE		x	x		
A1A20	21A3P2	A	21J1	H			x	
A1B20	21A7P1	A	21P1	H			x	
A2A20	21A3P2	B	21J1	G			x	
A2B20	21A7P1	B	21P1	G			x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
A3A20	21A3P2	C	21J1	F			X	
A3B20	21A7P1	C	21P1	F			X	
A4A20	21A3P2	D	21J1	F				
A4B20	21A7P1	D	21P1	F			X	
ASA20	21A3P2	E	21J1	F				
A5B20	21A7P1	E	21P1	F			X	
A6A20	21A3P2	E	21J1	F			X	
A6A20	21A7P1	F	21P1	F			X	
A7A20	21A3P2	G	21J1	G			X	
A7B20	21A7P1	G	21P1	G			X	
A8B20	21A3P2	H	21J1	H			X	
A8B20	21A7P1	H	21P1	H				
A9A20	21A3P2	J	21J1	J			X	
A9B20	21A7P1	J	21P1	J			X	
A10A20	21A3P2	K	21J1	K			X	
A10B20	21A7P1	K	21P1	K			X	
A11A20	21A3P2	L	21J1	L			X	
A11B20	21A7P1	L	21P1	L			X	
GPS1A22	GPSCB1		10CB2			X		
GPS1B22	GPSCB1		3A1P1	N		X		
GPS1C22	VPATB1		3A1J1	N		X		
GPS2A22N	VPATB1		GND			X		
GPS3A22 (BLK)	GPSP3	B	VPAP1	B		X		
GPS4A22 (RED)	GPSP1	C	VPAP1	C		X		
GPS5A22	GPSP1	ANT	ANTJ1			X		
GPS6A22 (WHT)	GPSP1	A	VPAP1	A		X		
GPS7A22 (BLU)	GPSP1	D	VPAP1	D		X		
GPS8A22 (ORN)	GPSP1	E	VPAP1	E		X		
GPS9AAA (GRN)	GPSP1	END CAP	VPAP1	END CAP			X	
IFM-1A20	SPLICE		8VDC		x	X	X	
IFM-2A20N	SPLICE		GRD		x	X	X	
IFM-3A20	2304TR1(A)P2	A	2304AR1P1	S	x	X	X	
IFM-4A20	2304TR1(A)P2	R	2304AR1P1	T	x	X	X	
IFM-5A20	2304TR1(A)P2	L	2304AR1P1	Y	x	X	X	
IFM-6A20	2304TR1(A)P2	D	2304AR1P1	B	x	X	X	
IFM-7A20	2304TR1(A)P2	U	2304AR1PA	A	x	X	X	
IFM-8A20	2304TR1(A)P2	P	2304AR1P1	D	x	X	X	
IFM-10A20N	SPLICE		GRD		x	X	X	
KY28-6A20N	DSK-9-05061-1	2	2319Z1P2	Z	x	X	X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
A13B20	21A7P1	N	21P1	N			X	
A14A20	21A3P2	P	21J1	P			X	
A14B20	21A7P1	P	21P1	P			X	
A15A20	21A3P2	R	21J1	R			X	
A15B20	21A7P1	R	21P1	R			X	
A16A20	21A3P2	S	21J1	S			X	
A16B20	21A7P1	S	21P1	S			X	
A17A20	21A3P2	T	21J1	T			X	
A17B20	21A7P1	T	21P1	T			X	
A18A20	21A3P2	U	21J1	U			X	
A18B20	21A7P1	U	21P1	U			X	
A19A20	21A3P2	V	21J1	V			X	
A19B20	21A7P1	V	21P1	V			X	
A20A20	22A1P1	H	21K3P1	G	X	X	X	
A20B20	22A1J1	H	SPLICE		X	X	X	
A20C20	21S4	I	SPLICE		X	X	X	
A20D20	21S5	I	SPLICE			X	X	
A20E20	1TB13	5	SPLICE		X	X		
A21A20	21A3P3	A	21J2	H			X	
A21B20	21A6P1	A	21P2	H			X	
A22A20	21A3P3	B	21J2	G			X	
A22B20	21A6P1	B	21P2	G			X	
A23A20	21A3P3	C	21J2	F			X	
A23B20	21A6P1	C	21P2	F			X	
A24A20	21A3P3	D	21J2	E			X	
A24B20	21A6P1	D	21P2	E			X	
A25A20	21A3P3	E	21J2	D			X	
A25B20	21A6P1	E	21P2	D			X	
A26A20	21A3P3	F	21J2	C			X	
A26B20	21A6P1	F	21P2	C			X	
A27A20	21A3P3	G	21J2	G			X	
A27B20	21A6P1	G	21P2	G			X	
A28A20	21A3P3	H	21J2	H			X	
A28B20	21A6P1	H	21P2	H			X	
A29A20	21A3P3	J	21J2	J			X	
A29B20	21A6P1	J	21P2	J			X	
A30A20	21A3P3	K	21J2	K			X	
A30B20	21A6P1	K	21P2	K			X	
A31A20	21A3P3	L	21J2	L			X	
A31A22N	21A5P1	19	GND	L		X		
A31B20	21A6P1	L	21P2	M			X	
A32A20	21A3P3	M	21J2	M			X	
A32A22N	21A3P1	19	GND	M		X		
A32B20	21A6P1	M	21P2	M			X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A33A20	21A3P3	N	21J2	N			X	
A33A22N	21A4P1	19	GND			X		
A33B20	21A6P1	N	21J2	N			X	
A34A20	21A3P3	P	21J2	P			X	
A34A22N	21A2P1	19	GND			X		
A34B20	21A6P1	P	21P2	P			X	
A35A20	21A3P3	R	21J2	R			X	
A35A22N	16TB1	A9 (SHLD)	GND			X		
A35B20	21A6P1	R	21P2	R			X	
A35F22	20A1J09	J	19TB4	J11		X		
A36A20	21A3P3	S	21J2	S			X	
A36B20	21A6P1	S	21P2	S			X	
A37A20	21A3P3	T	21J2	T			X	
A37B20	21A6P1	T	21P2	T			X	
A38A20	21A3P3	U	21J2	U			X	
A38A22N	GND		22A3P1	A (SHLD)				
A38B20	21A6P1	U	21P2	U			X	
A39A20	21A3P3	V	21J2	V			X	
A39A22N	GND		END CAP			X		
A39B20	21A6P1	V	21P2	V			X	
A40A22N	GND		22A2P1	N (SHLD)		X		
A40A22N	SHIELD		GND				X	
A41A22	21A3P1	A	21A1P1	P			X	
A41B22	21S7	I	21A1J1	P			X	
A42A20N	21K5P1	H	GND		X	X	X	
A42A22	21S7	I	21A1J1	K			X	
A42B22	21A3P1	B	21A1P1	K				
A43A20N	21K4P1	H	GND		X	X		
A43A22	21S7	2	21A1J1	L			X	
A43B22	21A3P1	C	21A1P1	L			X	
A44A20N	21K3P1	F	GND		X	X		
A44A22	21S7	3	21A1J1	M			X	
A44B22	21A3P1	D	21A1P1	M			X	
A45A22	21S7	4	21A1J1	N			X	
A45B22	21A3P1	E	21A1P1	N			X	
A46A22N	SHIELD		GND				X	
A47-24	22A5A1J1	20	22A5J1	47		X		
A47A22N	SHIELD		GND		X	X	X	
A48-24	22A5A1J1	21	22A5J1	48		X		
A48A20	21S2	1	5A1J1	J	X			
A48A20	21S8	1	22A3J1	U			X	
A48B20	5A1P1	J	1TB13	3	X	X		
A48B20	22A3P1	U	19TB4	F14			X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A48C20	21A3P1	G	19TB4	H14			X	
A48D20	21A1P1	D	19TB4	G14			X	
A48E20	21S6	6	21A1J1	D			X	
A49-24	22A5A1J1	26	22A5J1	49		X		
A49A22N	SHIELD		GND		X	X	X	
A50-24	22A5A1J1	24	22A5J1	50		X		
A50A16N	21A3P1	M	GND				X	
A151A22N	GND		GND				X	
A52A22N	21K5P1	D	GND		X	X		
A52A22N	GND		GND				X	
A52BU20	21K1	X1	19TB4	C5	X			
A53A20N	21SQ3J1	C	GND		X			
A53A20N	21SQ3J1	C	GND			X		
A53A20N	21SQ3J1	C	GND				X	
A55A20N	21SQ4J1	C	GND		X	X	X	
A56A20	21K5P1	D	SPLICE		X	X		
A56A20	21K5P1	G	SPLICE				X	
A56B20	21J1	P	SPLICE		X	X		
A56B20	21J3		SPLICE				X	
A56C20	21SQ2J1	X	21P1	<u>P</u>	X	X		
A56C20	21SQ2J1	A	21P3	X			X	
A56D20	SPLICE		21J4	X			X	
A56D20	21J2	<u>P</u>	SPLICE		X	X		
A56E20	21SQ4J1	A	21P2	<u>P</u>	X	X		
A56E20	21SQ4J1	A	21P4	X			X	
A57A20N	21SQ2J1	C	GND		X	X	X	
A58A20	22A1J1	K	21S5	2		X	X	
A58B20	22A1P1	K	SPLICE		X	X	X	
A58C20	21XK2	A1	SPLICE		X	X	X	
A58D20	SPLICE		SPLICE		X	X	X	
A58E20	21K3P1	C	SPLICE		X	X		
A58E20	21J1	X	SPLICE				X	
A58F20	21J1	W	SPLICE		X	X		
A58F20	21SQ1J1	A	21P1	X			X	
A58G20	21SQ1J1	A	21P1	W	X	X	X	
A58G20	SPLICE		21J2	X				
A58H20	21J2	W	SPLICE		X	X	X	
A58H20	21SQ3J1	A	21P2	X				
A58J20	21SQ3J1	A	21P2	W	X	X	X	
A59A20N	21SQ1J1	C	GND		X	X		
A60A22N	21S1	5	GND		X			
A60A22N	21S1	6	GND			X	X	
A60A22N	21S1	3	GND				X	
A62A20	4A2P1	W	21S3	2		X	X	
A62B20	21K3P1	E	4A2J 1	W	X	X	X	
A63A20	19CB3		3A1P1	<u>M</u>				

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A63B20	3A1J1	<u>M</u>	SPLICE				X	
A63C20	22A2P1	M	SPLICE				X	
A63D20	19S12	3	22A2J1	M			X	
A63E20	22A3P1	<u>M</u>	SPLICE				X	
A63F20	SPLICE		SPLICE				X	
A63G20	19K1P1	K	SPLICE				X	
A63H20	19K1P1	F	SPLICE				X	
A63J20	19S7	2	22A3J1	<u>M</u>			X	
A64A20N	19K31	X2	GND				X	
A64A22	19K1P1	B	2TB1	1			X	
A68A16	21J1	<u>M</u>	21K1	B1	X	X	X	
A68B16	21A11P1	A	21P1	<u>M</u>	X	X		
A68B16	21A8P1	A	21P1	<u>M</u>			X	
A69A16N	21A11P1	D	GND		X	X		
A69A16N	21A8P1	D	GND				X	
A71A16	21J2	<u>M</u>	21K1	A1	X	X	X	
A71B16	21P2	<u>M</u>	21A10P1	A	X	X		
A71B16	21A9P1	A	21P2	<u>M</u>			X	
A72A16N	21A10P1	D	GND		X	X		
A72A16N	21A9P1	D	GND				X	
A76A20	21CB2		3A1P1	KK	X	X		
A76A20	1TB13	5	SPLICE				X	
A76B20	SPLICE		3A1J1	KK	X	X		
A76B20	21K3P1	K	SPLICE				X	
A76C20	21K3P1	K	SPLICE		X	X		
A76C20	21K3P1	D	SPLICE				X	
A76D20	SPLICE		4A2J1	V	X	X		
A76D20	1TB13	4	4A2J1	V			X	
A76E20	4A2P1	V	21S3	1		X	X	
A76F20	21K3P1	D	SPLICE		X	X		
A80A22N	GND		21A12P1	72 (SHLD)		X		
A84A22N	1TB10	E6 (SHLD)	GND			X		
A84A22N	1TB10	H3 (SHLD)	GND			X		
A85A22N	3400TB1	K11 (SHLD)	GND			X		
A86A20N	19L1	B	GND				X	
A87A20N	21K3P1	A	GND		X	X	X	
A91A22	22A5P1	127 (SHLD)	GND			X		
A92A22	21K7P1	D (SHLD)	GND			X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES	PIN	E	M	P	
A95A22N	16XK7	19 (SHLD)	GND			x		
A96A22	22A3P1	W	19TB5	E4			x	
A96A22N	16XK6	19 (SHLD)	GND			x		
A96B22	22A3J1	W	19DS2	2			x	
A96C22	19DS2	2	19DS2	3			x	
A97A22N	GND		3TB4	F12 (SHLD)		x		
A98A22	22A3P1	J	19TB5	J1			x	
A98A22N	GND		22A5P1	2 (SHLD)		x		
A98B22	22A3J1	J	19DS2	1			x	
A98C22	19DS2	T	19DS2	4			x	
A100A22	22A3P1	E	19TB5	J3			x	
A100A22(BLU)	19J247	D	19J250	Z	x	x		
A100A22(WHT)	19J247	E	19J250	A	x	x		
A100B22	22A3J1	E	19DS1	2			x	
A100B22(BLU)	19P250	Z	19A3P244	E	x	x		
A100B22(WHT)	19P250	A	19A3P244	D	x	x		
A101A22	19J247	F	19J250	BB	x	x		
A101B22	8A2P1	H	19P250	BB	x	x		
A102A22	19J247	J	19J250	AA	x	x		
A102A22	22A3P1	F	19TB5	D3			x	
A102B22	19P250	AA	21XK6	B3	x			
A102B22	19P250	AA	21XK10	A2		x		
A102B22	22A3J1	F	19DS1	1			x	
A103A22	19J247	K	19J250	CC	x	x		
A103A22	19XK91	X1	8TB8	K4			x	
A103B22	19XK80	C2	19XK80	C2	x			
A103B22	19P250	CC	19XK80	C1	x			
A103B22	19TB4	C12	19P250	CC		x		
A104A22	22A3P1	B	19TB5	J2			x	
A104A22(BLU)	19J247	L	19J250	Y	x			
A104A22(BLU)	19J250	X	19J247			x		
A104A22(WHT)	19J247	M	19J250	X	x			
A104A22(WHT)	19J250	Y	19J247	M		x		
A104B22	22A3J1	B	19DS1				x	
A104B22(BLU)	19P250	Y	19A3P244	F	x	x		
A104B22(WHT)	19P250	X	19A3P244	G	x	x		
A105A22N	19XK91	X2	GND				x	
A106A22	19J247	U	SPLICE		x	x		
A106A22	22A3P1	F	19TB5	D2			x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A106B22	19J247	<u>K</u>	SPLICE		x	x		
A106B22	22A3J1	F	19DS1	4			x	
A106C22(BLU)	SPLICE		19J250	S	x			
A106C22(WHT)	SPLICE		19J250	R	x	x		
A106D22(BLU)	19P250	S	19A3P244	H	x	x		
A106D22(WHT)	19P250	R	19A3P244	J	x	x		
A107A22	19J247	S	SPLICE		x	x		
A107A22	19XK91	B3	19TB5	D4			x	
A107B22	19J247	T	SPLICE		x	x		
A107C22	SPLICE		SPLICE		x	x		
A107D22	19J247	AA	SPLICE		x	x		
A107E22	19J247	BB	SPLICE		x	x		
A107F22	SPLICE		SPLICE		x	x		
A107G22	19J247	<u>Y</u>	SPLICE		x	x		
A108A22	19J247	<u>Z</u>	SPLICE		x	x		
A108A22	19XK91	B1	19TB5	G1			x	
A108B22	19J247	<u>E</u>	SPLICE		x	x		
A108C22(BLU)	19A4P249	B	SPLICE		x	x		
A108C22(WHT)	SPLICE		19A4P249	A	x	x		
A108D22(BLU)	SPLICE		22A4P311	<u>R</u>	x			
A108D22(BLU)	SPLICE		22A4P13	H		x		
A108D22(WHT)	22A4P311	CC	SPLICE		x			
A108D22(WHT)	SPLICE		22A4P13	G		x		
A109A22	19XK91	A3	19TB5	H1			x	
A109A22(BLU)	19J247	W	19J250	T	x			
A109A22(BLU)	19J250	T	19J248	W		x		
A109A22(WHT)	19J247	V	19J250	U	x	x		
A109B22(BLU)	19P250	T	19A3P244	S	x	x		
A109B22(WHT)	19P250	U	19A3P244	T	x	x		
A110A22	19XK91	A1	19TB5	F4			x	
A110A22(BLU)	19J247	Y	19J250	W	x	x		
A110A22(WHT)	19J247	X	19J250	V	x	x		
A110B22(BLU)	19P250	W	19A3P244	P	x	x		
A110B22(WHT)	19P250	V	19A3P244	R	x	x		
A111A22	22A2P1	D	19TB5	D7			x	
A111B22	19DS5	B	22A2J1	D			x	
A111C22	19DS5	2	19DS5	3			x	
A112A22	19J247	<u>M</u>	SPLICE		x	x		
A112B22	19J247	<u>N</u>	SPLICE		x	x		
A112C22	19J247	G	SPLICE		x	x		
A112D22(BLU)	19A4P249	D	SPLICE		x	x		
A112D22(WHT)	19A4P249	C	19J247	H	x	x		
A113A22	19P250	N	19A3P244	N	x	x		
A113A22	19TB5	J4	22A2P1	G			x	
A113B22	19J250	N	SPLICE		x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A113B22	19DS5	A(NO)	22A2J1	G			X	
A113C22	19J247	<u>E</u>	SPLICE		X	X		
A113C22	19DS5	1	19DS5	4			X	
A113D22	SPLICE		19J1	Y	X	X		
A114A22(BLU)	19J247	<u>H</u>	19A4P249	P	X	X		
A114A22(WHT)	19J247	<u>G</u>	19A4P249	W	X	X		
A115A22	22A2P1	P	19TB5	J6			X	
A115A22(BLU)	19A4P249	U	19J247	<u>I</u>	X	X		
A115A22(WHT)	19A4P249	V	19J247	<u>J</u>	X			
A115A22(WHT)	19A4P249	V	19J247	<u>U</u>		X		
A115B22	19DS4	2	22A2J1	P			X	
A116A22N	19J247	<u>P</u>	GND		X	X		
A117A22	22A2P1	F	19TB5	D6			X	
A117A22N	19J247	<u>Q</u>	GND		X	X		
A1117B22	19DS4	1	22A2J1	F			X	
A118A22(BLU)	19P250	M	19A3P244	M	X	X		
A118A22(WHT)	19P250	P	19A3P244	U	X	X		
A118B22(BLU)	19J250	M	SPLICE		X	X		
A118B22(WHT)	19J250	P	SPLICE		X	X		
A118C22(BLU)	19J247	<u>X</u>	SPLICE		X	X		
A118C22(WHT)	19J247	<u>W</u>	SPLICE		X	X		
A118D22	SPLICE		19J1	Z	X	X		
A119A22	22A2P1	E	19TB5	J5			X	
A119A22(BLU)	19J247	EE	19J250	<u>D</u>	X	X		
A119A22(WHT)	19J247	FF	19J250	<u>E</u>	X	X		
A119B22	19DS4	3	22A2J1	E			X	
A119B22(BLU)	19P250	<u>D</u>	19A3P244	B	X	X		
14119B22(WHT)	19P250	<u>E</u>	19A3P244	A	X	X		
A120A22(BLU)	19J247	HH	19J250	<u>B</u>	X	X		
A120A22(WHT)	19J247	GG	19J250	<u>C</u>	X	X		
A120B22(BLU)	19P250	<u>B</u>	19A3P244	C	X	X		
A120B22(WHT)	19P250	<u>C</u>	19A3P244	K	X	X		
A121A10	19S19	L2	19J248	A	X	X		
A121A22	22A2P1	J	19TB5	D5			X	
A121B16(BLU)	SPLICE		19J248	D		X		
A121B16(WHT)	SPLICE		19J248	E		X		
A121B22	19DS4	4	22A2J1	J			X	
A122A16	3A1P1	AA	19CB6	25	X	X		
A122B16	3A1P1	FF	19CB6	25	X	X		
A122C16	3A1J1	AA	SPLICE		X	X		
A122D16	3A1J1	FF	SPLICE		X	X		
A122E14	19J248	C	SPLICE		X	X		
A123A10N	19J248	B	GND		X	X		
A124A10N	19J248	G	GND		X	X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	E	M	P	
A124A22	22A4P312	<u>K</u>	SHIELD				x	
A125A22	19XK91	F2	19XK59	F3			x	
A125A22N	SHIELD		GND		x	x		
A126A22	19J248	F	19A4P20	A	x	x		
A126A22	19XK59		19XK91	E2			x	
A127A16(BLU)	19A4P270	D	SPLICE		x	x		
A127A16(WHT)	19A4P270	C	SPLICE		x	x		
A127A22	19XK59	D3	19XK91	D2			x	
A127B16(BLU)	SPLICE		19J248	D	x	x		
A127B16(WHT)	SPLICE		19J248	E	x	x		
A127C22(BLU)	SPLICE		19K6	X1	x	x		
A127C22(WHT)	SPLICE		19K6	X2	x	x		
A127D22	SPLICE		19J247	Z	x	x		
A128A18	19A4P271	A	SPLICE		x			
A128A20	19A4P271	A	SPLICE			x		
A128A22	19XK91	C2	19XK59	C3			x	
A128B18	19A4P271	L	SPLICE		x			
A128B20	19A4P271	L	SPLICE			x		
A128C18	SPLICE		A128C18	B1	x			
A128C20	19K31	B1	SPLICE			x		
A129A16N	19A4P271	B	GND		x	x		
A129A22(BLU)	19A1J1	J	SPLICE				x	
A129A22(WHT)	19A1J1	K	SPLICE				x	
A129B22(BLU)	20J332	<u>Q</u>	SPLICE				x	
A129B22(WHT)	20J332	<u>P</u>	SPLICE				x	
A129C22(BLU)	24A4P311	<u>M</u>	SPLICE				x	
A129C22(WHT)	24A4P311	T	SPLICE				x	
A130A22	19A4P249	F	SPLICE		x	x		
A130A22(BLU)	19A1J1	D	SPLICE				x	
A130A22(WHT)	19A1J1	E	SPLICE				x	
A130B22	SPLICE		19A5P2	U	x	x		
A130B221(BLU)	20J332	<u>S</u>	SPLICE				x	
A130B22(WHT)	20J332	<u>R</u>	SPLICE				x	
A130C22(BLU)	19A4P249	G	19J250	E	x	x		
A130C22(BLU)	24A4P311	<u>K</u>	SPLICE				x	
A130C22(WHT)	19J250	<u>G</u>	SPLICE		x	x		
A130C22(WHT)	SPLICE		24A4P311	S			x	
A130D22(BLU)	19P250	E	19A3P242	K	x	x		
A130D22(WHT)	19P250	<u>G</u>	19A3P242	L	x	x		
A131A22(BLU)	19A4P249	K	19J250	P	x	x		
A131A22(WHT)	19A4P249	J	19J250	Q	x	x		
A131B22(BLU)	19P250	<u>P</u>	19A3P242	E	x	x		
A131B22(WHT)	19P250	<u>Q</u>	19A3P242	G	x	x		
A132A22(BLU)	19A4P249	L	19A5P2	E	x			
A132A22(BLU)	19A4P249	A	19A5P2	E		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	I PIN	E	M	P	
A132A22(WHT)	19A4P249	L	19A5P2	<u>E</u>		x		
A132A22(WHT)	19A4P249	<u>A</u>	19A5P2	<u>E</u>	x			
A133A22	19A4P249	<u>M</u>	SPLICE		x	x		
A133A22	19A1J1	B	19A1J1	C			x	
A133B22	SPLICE		19J250	<u>J</u>	x	x		
A133C22	19P250	<u>J</u>	19A3P242	<u>U</u>	x	x		
A133D22	SPLICE		19A5P2	<u>I</u>	x	x		
A134A20N	24A4P311	<u>B</u>	GND				x	
A134A22(BLU)	19A4P249	x	19A5P1	M	x	x		
A134A22(WHT)	19A4P249	N	19A5P1	L	x	x		
A136A22	19A4P249	R	SPLICE		x	x		
A136B22	SPLICE		19J247	C	x	x		
A136C22	SPLICE		19B1J1	E	x	x		
A137A22	17A1P1	AA	SHIELD				x	
A137A22(BLU)	22A4P311	<u>E</u>	19XK101	A2	x			
A137A22(BLU)	22A4P15	<u>D</u>	22A5P1	175		x		
A137A22(WHT)	22A4P311	<u>P</u>	SPLICE		x			
A137A22(WHT)	SPLICE		22A4P15	<u>E</u>		x		
A137B22(BLU)	19A4P249	T	19XK101	A1	x			
4137B22(BLU)	19A4P249	T	22A5P1	176		x		
A137B22(WHT)	19A4P249	S	SPLICE		x	x		
A138A18	19A4P271	C	SPLICE		x			
A138A20	19A4P271	C	SPLICE			x		
A138A20	3A1P1	CC	17CB1				x	
A138B18	19A4P271	D	SPLICE		x			
A138B20	19A4P271	D	SPLICE			x		
A138B20(WHT)	3A1J1	CC	24A4P311	G			x	
A138B20N(BLU)	24A4P311	H	GND				x	
A138C18	SPLICE		19XK38	B1	x			
A138C20	22A5P2	58	SPLICE			x		
A138C20	3A1P1	<u>K</u>	17CB1				x	
A138D20(WHT)	3A1J1	<u>K</u>	17A1P1	J			x	
A138D20N(BLU)	17A1P1	K	GND				x	
A139A20N	17A1P1	M	GND				x	
A139A22(BLU)	19J250	<u>M</u>	19A4P249	Z	x	x		
A139A22(WHT)	19A4P249	Y	19J250	<u>K</u>	x	x		
A139B22(BLU)	19P250	<u>M</u>	19A3P242	J	x	x		
A139B22(WHT)	19P250	<u>K</u>	19A3P242	H	x	x		
A140A20	17A1P1	GG	22A4P312	<u>R</u>			x	
A140A22	19A4P249	<u>C</u>	19A5P2	<u>R</u>	x	x		
A141A20(BLU)	17A1P1	BB	3T1P1	H			x	
A141A20(ORN)	17A1P1	CC	3T1P1	F			x	
A141A20(WHT)	17A1P1	FF	3T1P1	G			x	
A141A22	19A4P271	E	19J250	<u>V</u>	x	x		
A141B22	19P250	<u>V</u>	19TB4	G18	x			
A141B22	19P250	<u>V</u>	19TB4	D12		x		
A141C22	19TB4	H18	21K7P1	E	x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.	DES. PIN	REF DES.	PIN	E	M	P	
A142A20	17A1P1	Z	22A4P312	I			x	
A142A22	19A4P271	F	19S18	S2	x	x		
A143A22(BLU)	19A4P270	G	19A5P2	G	x	x		
A143A22(BLU)	17A1P1	K	22A4P312	B			x	
A143A22(WHT)	19A5P2	H	19A4P270	F	x	x		
A143A22(WHT)	17A1P1	S	22A4P312	A			x	
A144A22	19A4P270	H	19A5P2	Z	x	x		
A144A22(BLU)	17A1P1	N	22A4P312	Z			x	
A144A22(WHT)	17A1P1	U	22A4P312	D			x	
A145A22(BLU)	19J250	T	19A4P271	H	x	x		
A145A22(BLU)	17A1P1	M	22A4P312	Y			x	
A145A22(WHT)	19J250	S	19A4P271	G	x	x		
A145A22(WHT)	17A1P1	T	22A4P312	C			x	
A145B22(WHT)	19P250	S	19XK38	D1	x			
A145B22(WHT)	19P250	S	22A5P2	64		x		
A145B22N(BLU)	GND		19P250	I	x	x		
A146A22	19A4P271	K	19A5P1	R	x	x		
A146A22(BLU)	22A4P312	J	SPLICE				x	
A146A22(WHT)	22A4P312	V	SPLICE				x	
A146B22(BLU)	20J332	C	SPLICE				x	
A146B22(WHT)	20J332	B	SPLICE				x	
A146C22(BLU)	17A1P1	X	SPLICE				x	
A146C22(WHT)	17A1P1	B	SPLICE				x	
A147A22	19A4P271	M	SPLICE		x	x		
A147A22(BLU)	22A4P312	X	SPLICE				x	
A147A22(WHT)	22A4P312	W	SPLICE				x	
A147B22	SPLICE		19J250	W	x	x		
A147B22(BLU)	20J322	G	SPLICE				x	
A147B22(WHT)	20J332	E	SPLICE				x	
A147C22	SPLICE		19P250	W	x	x		
A147C22(BLU)	17A1P1	W	SPLICE				x	
A147C22(WHT)	17A1P1	A	SPLICE				x	
A147D22	19XK81	X1	SPLICE		x			
A147D22	22A5P1	84	SPLICE			x		
A147E22	SPLICE		SPLICE		x			
A147F22	19XK98	B2	SPLICE		x			
A147F22	22A5P1	113	SPLICE			x		
A147G22	22A2P1	C	SPLICE		x			
A147G22	19TB4	H17	SPLICE			x		
A147H22	19S13	4	22A2J1	C	x			
A147H22	19J1	P	SPLICE			x		
A147J22	SPLICE		19J1	P	x			
A148A22	19A4P271	P	19TB4	A16	x	x		
A148A22(BLU)	22A4P312	I	SPLICE				x	
A148A22(WHT)	22A4P312	U	SPLICE				x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	F	M	P	
A148B22	19TB4				X	X		
A148B22(BLU)	20J332	B16	5A2J1	C			X	
A148B22(WHT)	20J332	E	SPLICE				X	
A148C22	19XKB	D	SPLICE		X			
A148C22	22A5P1	A2	19TB4	C16		X		
A148C22(BLU)	17A1P1	78	19TB4	C16			X	
A148C22(WHT)	17A1P1	Y	SPLICE				X	
A148D22	19TB4	C	SPLICE		X	X		
A148E22	19XK87	D16	4A3J1	C	X			
A149A20N	17A1P1	D3	19TB4	E16			X	
A149A2	19P250	Q	GND			X		
A149B22	19J250	DD	(SHLD)			X		
A150A22	19P250	DD	(SHLD)		X	X		
A150A22N	SHIELD	R	(SHLD)				X	
A150B22	19J250		GND		X	X		
A151A22	19A3P242	R	(SHLD)		X	X		
A151A22N	SHIELD	T	(SHLD)				X	
A152A22	19A3P244		GND		X	X		
A152A22N	SHIELD	L	(SHLD)				X	
A153A22	19A3P245		GND		X	X		
A153A22N	21A3P3	A	(SHLD)				X	
A154A22(BLU)	19P250	SHIELD	GND		X	X		
A154A22(WHT)	19P250	I	19A3P242	P	X	X		
A154A22N	21A3P3	N	19A3P242	D			X	
A154B22(BLU)	19A5P1	SHIELD	GND		X	X		
A154B22(WHT)	19A5P1	H	19J250	L	X	X		
A155A20	5A2J1	G	19J250	N			X	
A155A22	19P250	S	19XK84	A1	X	X		
A155A22N	21A3P3	H	19A3P242	N			X	
A155B22	19J250	SHIELD	GND		X	X		
A156A20	17A1P1	H	19A5P2	B			X	
A156A22	19P250	HH	22A4P312	N	X	X		
A156B22	19J250	Z	19A3P242	S	X	X		
A156C22	SPLICE	Z	SPLICE		X	X		
A156D22	22A3P1		19J1	T	X	X		
A156E22	22A3J1	R	SPLICE		X	X		
A157A22(BLU)	19P250	R	19S3	2	X			
A157A22(BLU)	19A3P243	FF	19A3P245	C		X		
A157A22(BLU)	17A1P1	C	19P250	FF			X	
A157A22(WHT)	19P250	R	22A4P312	G	X			
A157A22(WHT)	19A3P243	EE	19A3P245	B		X		
A157A22(WHT)	17A1P1	B	19P250	EE			X	
A157B22(BLU)	19J250	P	22A4P312	F	X	X		
A157B22(WHT)	19J250	FF	SPLICE		X	X		
A157C22(BLU)	19A5P1	EE	SPLICE		X	X		
		E	SPLICE					

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A157C22(WHT)	19A5P1	D	SPLICE	S	x	x		
A157D22(BLU)	SPLICE		20J332	R	x	x		
A157D22(WHT)	SPLICE		20J332	K	x	x		
A158A22	19P250	LL	19A3P245	LL	x			
A158A22	19A3P243	K	19P250	R		x		
A158A22(BLU)	17A1P1	D	22A4P312	S			x	
A158A22(WHT)	17A1P1	E	22A4P312	H2			x	
A158B22	19J250	LL	19TB4	NN	x	x		
A158C22	19TB4	K2	20J332	G2	x	x		
A158D22	19J1	D	19TB4		x	x		
A158E22	19TB4	J2	SPLICE	A3	x	x		
A158F22	SPLICE		19XK88	153	x			
A158F22	SPLICE		22A5P1			x		
A158G22	22A4p311	S	SPLICE		x			
A158G22	2K20P1	E	SPLICE			x		
A158H22	SPLICE		22A4P13	F		x		
A159A22(BLU)	19P250	HH	19A3P245	T	x			
A159A22(BLU)	19A3P243	T	19P250	HH		x		
A159A22(BLU)	17A1P1	V	22A4P312	B			x	
A1559A22(WHT)	19P250	JJ	19A3P245	M	x			
A159A22(WHT)	19A3P243	M	19P250	JJ		x		
A159A22(WHT)	17A1P1	P	22A4P312	H			x	
A159B22(BLU)	19J250	HH	SPLICE		x	x		
A159B22(WHT)	19J250	JJ	SPLICE		x	x		
A159C22(BLU)	22A4P311	M	SPLICE		x			
4159C22(BLU)	SPLICE		22A4P15	H		x		
A159C22(WHT)	22A4P311	T	SPLICE		x			
A159C22(WHT)	SPLICE		22A4P15	J		x		
A159D22(BLU)	SPLICE		20J332	Q	x	x		
A159D22(WHT)	20J332	P	SPLICE		x	x		
A160A22	17S3	5	17R2	2			x	
A160A22(BLU)	19P250	K	19A3P245	P	x			
A160A22(BLU)	19A3P243	P	19P250	K		x		
A160A22(WHT)	19P250	J	19A3P245	N	x			
A160A22(WHT)	19A3P243	N	19P250	J		x		
A160B22(BLU)	19J250	K	SPLICE		x			
A160B22(BLU)	SPLICE		22A4P311	B	x			
A160B22(BLU)	19J250	K	19TB7	F1		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
A160622(WHT)	19J250	J	22A4P311	W	x			
A160622(WHT)	19J250	J	SPLICE		x			
A160622(WHT)	19J250	J	19TB7	A1		x		
A160C22(BLU)	19A5P1	<u>H</u>	SPLICE		x			
A160C22(BLU)	19A5P1	<u>H</u>	SPLICE		x			
A160C22(BLU)	19A5P1	<u>h</u>	19TB7	G1		x		
A160C22(WHT)	19A5P1	<u>G</u>	SPLICE		x			
A160C22(WHT)	19A5P1	<u>G</u>	19TB7	B1		x		
A160D22(BLU)	22A4P311	B	SPLICE		x			
A160D22(BLU)	22A4P13	EE	19TB7	H1		x		
A160D22(WHT)	22A4P311	W	SPLICE		x			
A160D22(WHT)	22A4P13	FF	19TB7	C1		x		
A161A22(BLU)	19P250	G	19A3P245	S	x			
A161A22(BLU)	19A3P243	S	19P250	G		x		
A161A22(BLU)	17A1P1	<u>A</u>	22A4P312	G			x	
A161A22(WHT)	19P250	H	19A3P245	R	x			
A161A22(WHT)	19A3P243	R	19P250	H		x		
A161A22(WHT)	17A1P1	Z	22A4P312	P			x	
A161B22(BLU)	SPLICE		22A4P311	V	x			
A161B22(BLU)	19J250	G	22A4P311	V	x			
A161B22(BLU)	19TB7	F3	19J250	G		x		
A161B22(WHT)	19J250	H	SPLICE		x			
A161B22(WHT)	22A4P311	A	SPLICE		x			
A161B22(WHT)	19J250	H	19TB7	A3		x		
A161C22(BLU)	19A5P1	<u>F</u>	SPLICE		x			
A161C22(BLU)	19A5P1	<u>f</u>	19TB7	G3		x		
A161C22(WHT)	19A5P1	<u>J</u>	SPLICE 11		x			
A161C22(WHT)	19A5P1	<u>J</u>	19TB7	B3		x		
A161D22(BLU)	22A4P311	<u>V</u>	SPLICE		x			
A161D22(BLU)	22A4P13	GG	19TB7	H3		x		
A161D22(WHT)	22A4P311	A	SPLICE		x			
A161D22(WHT)	22A4P13	HH	19TB7	C3		x		
A162A4N	19A3	-	GND		x	x		
A162A22(BLU)	17A1P1	<u>L</u>	22A4P312	<u>C</u>			x	
A162A22(WHT)	17A1P1	<u>J</u>	22A4P312	J			x	
A163A4	19K5	A1	19S18	L2	x	x		
A163A22(BLU)	17A1P1	<u>S</u>	22A4P312	N			x	
A163A22(WHT)	17A1P1	<u>R</u>	22A4P312	<u>F</u>			x	
A163B4	19A3	+	19K5	A1	x	x		
A163C10	19K5	A1	19S20	L1	x			
A163C10	19K5	A2	19S20	L1		x		
A164A20	4A3J1	N	19XK81	C3			x	
A164A22	19A5P2	<u>N</u>	19K5	X2	x	x		
A165A20	19XK84	A1	5A2J1	S			x	
A165A22	19K5	X1	19S19	S2	x	x		

WIRE NO.	END		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A166A6	19K5	A2	19S19	L1	x	x		
A166A22	17S2	1	17S2	5			x	
A167A20	19XK84	B1	SPLICE				x	
A167A22N	19S19	S3	GND		x	x		
A167B20	19XK84	A2	SPLICE				x	
A167C20	19XK83	A2	SPLICE				x	
A167D20	17A1P1	G	SPLICE				x	
A168A20	17A1P1	H	SPLICE				x	
A168A22	19S19	S1	19S20	S1	x	x		
A168B20	19XK88	A2	SPLICE				x	
A168C20	22A4P313	H	SPLICE				x	
A169A20	19K6	A1	19S20	L2	x	x		
A169A20	19K82P1	F	19XK85	X2			x	
A170A20	SPLICE		19XK87	B1			x	
A170A22N	19S20	S3	GND		x	x		
A170B20	SPLICE		19K82P1	K			x	
A170C20	SPLICE		19XK86	X1			x	
A171A20N	19XK86	X2	GND				x	
A171A22	3A1P1	CC	19CB8		x	x		
A171B22	19S20	S2	3A1J1	CC	x	x		
A172AT0	2K12	A1	SPLICE		x	x		
A172A22N	19XK87	X2	GND				x	
A172B16	3A1J1	JJ	SPLICE		x	x		
A172C16	3A1P1	JJ	21CB4		x	x		
A172D16	3A1J1	LL	SPLICE		x	x		
A172E16	3A1P1	LL	21CB3		x	x		
A172F16	21CB3		19CB8		x	x		
A172G16	16CB5		19CB8			x		
A172J16	19CB3		19CB7			x		
A172K16	21CB4		16CB6			x		
A173A20	19K6	A2	19S17	NC	x	x		
A173A22	17P1	7	24A4P311	L			x	
A174A22	19A1J1	H	24A4P311	CC			x	
A174A22N	19S18	S3	GND		x	x		
A175A20N	24A4P311	J	GND				x	
A175A22	3A1P1	K	19CB7		x	x		
A175B22	3A1J1	K	19S18	S1	x	x		
A176A20	19S17	NC	19S17	NO	x	x		
A176A22(BLU)	24A4P311	N	SPLICE				x	
A176A22(WHT)	19A12P1	C	24A4P311	U			x	
A176B16(WHT)	19S17	NC	19B1J1	A	x	x		
A176B16N(BLU)	19S17	GND	19B1J1	C	x	x		
A176B22	19A12P1	B	SPLICE				x	
A176C16(WHT)	19B1J1	B	19S17	NO	x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES	PIN	REF DES.	PIN	E	M	P	
A176C16N(BLU)	GND		19B1J1	c	x			
A176C16N(BLU)	GND		19B171	D		x		
A177A20	19S17	NO	19CB126	10	x	x		
A177A22N	17XK1	X2	GND				x	
A178A20N	19K82P1	B	GND				x	
A178A22N	GND		SHIELD		x	x		
A179A20	19K82P1	E	20TB3	2			x	
A179B22	19A6	3	19TB6	A1	x	x		
A180A20N	19K82P1	A	GND				x	
A180A22	5A2J1	F	SPLICE		x	x		
A180B22	4A3J1	F	SPLICE		x	x		
A180C22	19XK8	X1	SPLICE		x			
A180C22	22A5P1	76	SPLICE			x		
A180D22	19XK87	C3	19XK8	X1	x			
A180D22	22A5P1	205	SPLICE			x		
A181A22	5A2J1	S	19XK84	A1	x			
A181A22	5A2J1	S	22A5P1	183		x		
A181A22	19A3J1	X	19A1J3	X			x	
A182A22	5A2J1	N	19XK80	A1	x			
A182A22	22A5P1	37	5A2J1	N		x		
A182A22	19A3J1	Y	19A1J3	Y			x	
A183A22	19S8	2	19S8	4	x	x		
A183A22	19A3J1	DD	19A1J3	DD			x	
A184A22	22A3J1	E	19S8	3	x			
A184A22	22A3J1	E	19S8	1		x		
A184A22	19A3J1	EE	19A1J3	EE			x	
A184B22	19XK59	C3	22A3P1	E	x			
A184B22	5A2J1	C	19TB4	B16		x		
A185A22	22A3J1	A	19S8	6	x			
A185A22	19A3J1	FF	19A1J3	FF			x	
A185B22	19XK59	D3	22A3P1	A	x			
A186A22	19XK38	A1	SPLICE		x			
A186A22	22A5P2	55	SPLICE			x		
A186A22	19XK59	F2	19TB4	E			x	
A186B22	17DS1	NC	17S5	1		x		
A186C22	19K31	A2	SPLICE		x	x		
A186D22	22A3P1	V	SPLICE		x	x		
A186E22	22A3J1	V	19S8	5	x	x		
A186F22	19S8	5	SPLICE		x	x		
A186G22	19DS2	NO-A	SPLICE		x	x		
A186H22	19DS2	A	19DS2	NO-B	x	x		
A186J22	19DS3	NO	SPLICE		x	x		
A186K22	19S16	1	SPLICE		x	x		
A186L22	17S4		19S16	1	x	x		
A186M22	17S5	1	17S4		x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A186N22	17DS1	NO	17S5	1	x			
A187A22	19XK59	E2	19TB4	D			x	
A187B20	19S5	5	SPLICE			x		
A187B22	19S5	5	SPLICE		x			
A187C20	SPLICE		17S1			x		
A187C22	17S1		SPLICE		x			
A187D20	SPLICE		22A2J1	B		x		
A187D22	22A2J1	B	SPLICE		x			
A187E20	19TB4	C4	22A2P1	B		x		
A187E22	22A2P1	B	19TB4	C4	x			
A187F20	19TB4	B4	22A3P1	B		x		
A187F22	22A3P1	B	19TB4	B4	x			
A187G22	22A3J1	B	19S6	2	x	x		
A187H20	19TB4	E4	22A5P1	38		x		
A187H20	19XK38	SHIELD	19TB4	E4	x			
A187J20	19TB4	H5	22A5P1	92		x		
A187J20	19XK80	A2	SPLICE		x			
A187K20	22A5P1	182	19TB4	J5		x		
A187K20	19XK38	A2	SPLICE		x			
A187L20	17A1	L	19TB4	G5		x		
A187M20	19TB4	G4	19J1	G		x		
A187M22	19TB4	G4	19J1	G	x			
A187N20	22A5P1	215	19TB4	H4		x		
A187N22	19XK95	B2	19TB4	H4	x			
A187P20	22A5P2	61	19TB4	J4		x		
A187P20	19XK38	C1	19TB4	J4	x			
A187R20	22A4P15	G	19TB4	A4		x		
A187R22	19TB4	A4	SPLICE		x			
A187S20	22A5P1	126	19TB4	D4		x		
A187S22	22A4P311	C	SPLICE		x			
A187T20	19TB4	K4	19TB4	F5		x		
A187T22	22A4P311	K	SPLICE		x			
A187U22	19XK83	X1	19TB4	H5	x			
A187V22	19XK84	X1	19TB4	J5	x			
A187W22	19TB4	G5	17A1P1	L	x			
A187Y22	19TB4	K4	19TB4	F5	x			
A187Z22	19TB4	K5	SPLICE		x			
A188A22	22A3J1	L	19S6	1	x			
A188A22	22A3J1	P	19S6	3		x		
A188A22	19XK59	D2	19TB4	C			x	
A188B22	22A3P1	L	SPLICE		x			
A188C22	SPLICE		22A4P311	D	x			
A188D22	SPLICE		19J1	U	x			
A189A22	22A3P1	C	22A4P311	HH	x			

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A189A22	22A4P15	FF	22A3P1	C		x		
A189A22	19XK59	C2	19TB4	B			x	
A189B22	22A3J1	C	17R2	3	x	x		
A190A22	17R2	2	17S3	4	x			
A190A22	17S3	1	17R2	4		x		
A191A22	22A3J1	1	17S3	5	x			
A191A22	22A3J1	1	17S3	2		x		
A191B22	22A3P1	1	17A1P1	E	x	x		
A192A22	22A3J1	<u>A</u>	19S16	2	x	x		
A192A22	19A1J4	<u>G</u>	19TB3	10			x	
A192B22	22A3P1	<u>A</u>	19XK81	B3	x			
A192B22	22A5P1	90	22A3P1	<u>A</u>		x		
A193A22	22A3J1	N	17S5	2	x	x		
A193B22	22A3P1	N	17A1P1	<u>F</u>	x	x		
A194A22	22A3J1	<u>K</u>	17S4		x	x		
A194B22	22A4P311	EE	22A3P1	<u>K</u>	x			
A194B22	22A4P15	HH	22A3P1	<u>K</u>		x		
A195A22N	17DS1	CASE GND	LOCAL GND			x		
A196A22	22A3J1	H	17DS1	1	x			
A196A22	22A3J1	H	17DS1	E1A		x		
A196B22	22A3P1	H	19TB5	C5	x	x		
A197A22	22A3J1	G	17DS1	PLT		x		
A197A22	22A3J1	G	17DS1	2	x			
A197B22	19TB5	E2	22A3P1	G	x	x		
A198A20	19XK84	B2	19XK87	A3			x	
A198A22	22A3J1	K	17DS1	3	x			
A198A22	22A3J1	K	17DS1	GNR		x		
A198A22	19XK87	A3	19XK84	B2			x	
A198B22	22A3P1	K	19TB5	K4	x	x		
A199A22	22A3J1	J	TM DS1	GO		x		
A199A22	22A3J1	J	17DS1	4	x			
A199B22	22A3P1	J	19TB5	K2	x	x		
A200A20	19XK84	B3	22A4P313	<u>M</u>			x	
A200A22	22A3J1	Y	17DS1	C	x	x		
A200B22	22A3P1	Y	19TB5	K5	x	x		
A201B22	19DS2	4	19DS2	1	x	x		
A201B22	19DS2	4	19DS2	1	x	x		
A202-24	22A5A3J1	22	22A5P1	202		x		
A202B22	19DS2	3	19DS2	2	x	x		
A203A22	19TB5	E1	22A3P1		x	x		
A203B22	22A3J1	J	19DS2	NC-A	x	x		
A204A22	19TB5	E3	22A3P1	W	x	x		
A204B22	22A3J1	W	19DS2	NC-B	x			

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A204B22	22A3J1	w	19DS2	B		x		
A205A20N	19XK84	C2	GND				x	
A205A22	19DS3	2	19DS3	C	x	x		
A205B22	19DS3	2	19DS3	4	x	x		
A206A20N	19XK83	B2	GND				x	
A206A22	19TB5	K3	22A3P1	D	x	x		
A206B22	22A3J1	D	19DS3	NC	x	x		
A207A22	19K31	A1	SPLICE		x	x		
A207B22	22A3P1	P	SPLICE		x	x		
A207C22	22A3J1	P	19M1		x	x		
A207D22	19XK91	B2	SPLICE		x			
A207D22	22A5P1	141	SPLICE			x		
A207E22	19XK92	B2	SPLICE		x			
A207E22	22A5P1	163	SPLICE			x		
A208A22	22A3J1	D	19M1	2	x	x		
A208B22	22A3P1	D	19P250	Y	x	x		
A208C22	19A4P271	R	19J250	Y	x	x		
A209A22N	19S3	3	GND		x	x		
A210A22	22A3J1	C	19s7	1	x	x		
A210B22	22A3P1	C	19XK80	X1	x			
A210B22	22A3P1	C	22A5P1	228		x		
A211A22	3A1P1	m	19CB3		x	x		
A211B22	SPLICE		3A1J1	m	x	x		
A211C22	19XK80	D1	SPLICE		x			
A211C22	22A5P2	46	SPLICE			x		
A211D22	22A2P1	M	SPLICE			x		
A211E22	22A2J1	M	19S12	5		x		
A211F22	SPLICE		22A2P1	M	x			
A211G22	19S12	5	22A2J1	M	x			
A212A20	19XK88	A3	SPLICE				x	
A212A22	8TB5	H6	22A3P1	Z	x	x		
A212A22 *	8TB5	H8	22A3P1	Z	x	x		
A212620	20J332	NN	SPLICE				x	
A212B22	22A3J1	Z	8J103		x	x		
A212C20	19A1J1	Y	SPLICE				x	
A212C22	8J102		8J103		x	x		
A212D22	19M1	3	8J102		x	x		
A212D22 *	END CAP		8J102		x	x		
A213A22N	22A3J1	R	GND		x	x		
A213B22N	22A3P1	R	GND		x	x		
A214A22	19TB5	E6	22A3P1	S	x	x		
A214B22	19TB5	A6	1A2J1	T	x	x		
A215A20	19TB4	K	19XK81	C2			x	
A215A22	SPLICE		19K31	A3	x	x		
A215622	19XK91	A 2	SPLICE		x			
A215B22	22A5P1	138	SPLICE			x		
A215622	SPLICE		SPLICE			x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A215C22	19XK92	A2	SPLICE		x			
A215C22	22A5P1	160	SPLICE			x		
A215C22	SPLICE		SPLICE			x		
A216A22	19A4P271	S	SPLICE		x	x		
A216A22N	19XK88	X2	GND				x	
A216B22	19XK8	A3	SPLICE		x			
A216B22	22A5P1	79	SPLICE			x		
A216C22	SPLICE		19J1	R	x	x		
A217A22N	19XK8	X2	GND		x			
A217A22N	22A5P1	75	GND			x		
A218A20	19TB4	K(2)	19TB4	G(1)			x	
A218A20	19XK83	A1	19TB4	K2			x	
A218A22N	19K31	X2	GND		x	x		
A219A22	19S12	4	22A2J1	L	x	x		
A219A22	19XK91	F3	19TB5	C2			x	
A219B22	22A2P1	L	19TB4	A3	x	x		
A219C22	19K31	X1	19TB4	B3	x	x		
A219D22	19TB4	C3	22A3P1	3		x		
A219E22	19XK80	B2	19TB4	D3	x	x		
A219F22	19TB4	E3	19XK80	D2	x			
A219F22	19TB4	E3	22A5P2	47		x		
A219G22	19TB4	F3	19J1	S	x	x		
A219H22	19TB4	H3	19XK102	X1	x			
A219H22	19S16	5	22A3J1	E		x		
A219J22	19TB4	G3	21XK6	B2	x			
A219J22	19TB4	G3	22A5P2	71		x		
A220A20	3A1P1	B	19CB1		x	x		
A220A22	19A3J1	A	19A1JP3	A			x	
A220B20	3A1P1	C	19CB1		x	x		
A220C20	3A1J1	B	SPLICE		x	x		
A220D20	3A1J1	C	SPLICE		x	x		
A220E16	19K31	B2	SPLICE			x		
A220E20	19K31	B2	SPLICE		x			
A220F20	19XK38	B2	19K31	B2	x			
A220F20	22A5P2	59	19K31	B2		x		
A220G20	22A5P2	56	19K31	B2		x		
A220H20	19XK38	C2	SPLICE		x			
A220H20	22A5P2	62	SPLICE			x		
A221A22	3A1P1	H	19CB4		x	x		
A221A22	19XK91	F1	19TB5	B2			x	
A221B22	3A1J1	H	SPLICE		x	x		
A221C22	19XK38	D2	SPLICE		x			
A221C22	22A5P2	65	SPLICE			x		
A221D22(BLU)	19J2	D	GND		x			
A221D22(WHT)	19J2	C	SPLICE		x	x		
A221D22N(BLU)	GNE		19J2	D		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A221E22	22A2P1	<u>K</u>	SPLICE			x		
A222A20	3A1P1	A	19CB2		x	x		
A222A20	2XK16	F1	19TB4	A15	x			
A222A22	19XK91	E3	19TB5	H2			x	
A222B20	19XK80	F1	SPLICE		x			
A222B20	3A1J1	A	SPLICE		x	x		
A222C20	19XK80	F1	SPLICE		x			
A222C20	22A5P2	52	SPLICE			x		
A222D20	SPLICE		22A2P1	A	x	x		
A222E20	22A2J1	A	SPLICE		x	x		
A222F22	19DS5	NO	SPLICE		x	x		
A222G22	19DS5	NO	19DS5	NO	x			
A222H22	19S12	2	SPLICE		x	x		
A222J20	SPLICE		SPLICE			x		
A222J20	22A3P1	<u>M</u>	SPLICE			x		
A222K20	19TB4	E15	SPLICE		x			
A222K20	2XK16	F1	19TB4	D20		x		
A222L22	22A3P1	<u>M</u>	SPLICE		x			
A222L22	SPLICE		22A3J1	<u>M</u>		x		
A222M20	19J2	A	SPLICE		x			
A222M20	SPLICE					x		
A222M22	22A3J1	<u>M</u>	SPLICE		x			
A222M22	19S7	2	SPLICE		x			
A222N20	19TB4	B20	SPLICE			x		
A222P22	19S7	2	SPLICE			x		
A222R20	19J2	A	SPLICE			x		
A223A22	19XK91	E1	19TB6	G2			x	
A223A22N	19XK38	X2	GND		x			
A223A22N	22A5P1	229	GND			x		
A224A20	19TB4	A15	2XK16	F1	x			
A224A22	19XK91	D3	19TB5	C3			x	
A224A22N	19M1	4	GND			x		
A225A22	19XK91	D1	19TB5	B3			x	
A225A22N	19XK80	X2	GND		x			
A225A22N	22A5P1	227	GND			x		
A226A22	19CR17	E3	22A2J1	Z	x	x		
A226A22	19XK91	C3	19TB5	H3			x	
A226B22	19TB4	F16	22A2P1	Z	x	x		
A226C22	19TB4	B6	19TB4	C18	x			
A226C22	19TB4	C18	22A5P1	109		x		
A226D22	19XK85	A3	19TB4	E17	x			
A226D22	19TB4	E17	22A5P1	103		x		
A226E22	22A4P311	E	19TB4	G16	x			
A226E22	22A4P15	<u>R</u>	19TB4	G16		x		
A226F22	19TB4	K17	19J1	V	x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A226G22	19TB4	B18	SPLICE		X	X		
A226H22	19TB4	H16	19TB4	J17	X	X		
A226J22	19TB4	D17	19A5P2	B	X	X		
A226K22	19TB4	K16	SPLICE		X	X		
A226L22	19XK91	C2	SPLICE		X			
A226L22	SPLICE		22A5P1	144		X		
A227-22	22A5K3	X2	22A5J1	227		X		
A227A22	19XK91	C1	19TB5	G3			X	
A228-22	22A5K3	X1	22A5J1	228		X		
A228A22	19XK59	X1	19TB4	J6	X			
A228A22	19XK59	B3	22A3P1	M			X	
A228B20	22A3J1	M	19S5	3			X	
A229-22	22A5XK4	X2	22A5J1	229		X		
A229A22	19XK87	X1	19TB4	H6	X			
A229A22	19TB4	H6	SPLICE		X			
A229A22	19TB4	H6	22A5P1	196		X		
A229A22	19XK59	B1	22A2P1	R			X	
A229B22	SPLICE		19XK87	X1	X			
A229B22	19TB4	F6	22A5P1	210		X		
A229B22	22A2J1	R	19S14	3			X	
A229C22	19J1	M	SPLICE		X			
A230-22	22A5XK4	X1	22A5J1	230		X		
A230A22	19XK80	A3	22A2P1	X	X			
A230A22	22A5P1	39	22A2P1	X		X		
A230A22	19XK59	A3	22A3P1	<u>G</u>			X	
A230B22	19S13		22A2J1	<u>X</u>	X	X		
A230B22	22A3J1	<u>G</u>	19S5	4			X	
A231-22	22A5K5	X2	22A5J1	231		X		
A231A22	19S13	<u>I</u>	22A2J1	<u>A</u>	X	X		
A231A22	22A2P1	S	19XK59	<u>A1</u>			X	
A231B22	22A2P1	<u>A</u>	SPLICE		X	X		
A231B22	22A2J1	<u>S</u>	19S14	4			X	
A231C22	19XK86	B2	SPLICE		X			
A231C22	22A5P1	218	SPLICE			X		
A231D22	SPLICE		20A1J09	Z		X		
A232-22	22A5K5	1X	22A5J1	232		X		
A233A22(BLU)	22A4P311	<u>K</u>	SPLICE		X			
A233A22(BLU)	19TB7	62	22A4P15	K		X		
A223A22(WHT)	22A4P311	S	SPLICE		X			
A233A22(WHT)	22A4P15	L	19TB7	D2		X		
A233A22N	GND		SHIELD				X	
A233B22(BLU)	SPLICE		19A5P1	W	X			
A233B22(BLU)	19A5P1	W	19TB7	A2		X		
A233B22(WHT)	SPLICE		19A5P1	V	X			

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A233B22(WHT)	19A5P1	V	19TB7	C2		x		
A233C22	19J1	C	SPLICE		x			
A233C22	19J1	C	19TB7	E2		x		
A234A22(BLU)	19J247	P	19A5P1	E	x	x		
A234A22(WHT)	19A5P1	U	19J247	R	x	x		
A235A22N	22A4P311	B	GND		x			
A235A22N	22A4P15	E	GND			x		
A235A22N	CAP		GND				x	
A237A22	19XK87	D1	19TB4	D1	x			
A237A22	22A5P1	170	19TB4	D1		x		
A237A22N	CAP		GND				x	
A238A22	SPLICE		19TB4	B1	x	x		
A238A22N	CAP		GND				x	
A238B22	19XK85	B1	SPLICE		x			
A238B22	22A5P1	104	SPLICE			x		
A238C22	19XK85	X1	SPLICE		x			
A238C22	22A5P1	100	SPLICE			x		
A239A22	19TB4	G1	19XK85	A2	x			
A239A22	19TB4	G1	22A5P1	102		x		
A239A22N	CAP		GND				x	
A240A22	22A5P1	169	22A5P1	217		x		
A240A22N	CAP		GND				x	
A240B22	19TB4	J1	19XK86	B1	x			
A241A22	22A4P311	L	17P1	7	x			
A241A22	22A4P15	Z	17P1	7		x		
A241A22N	21J1	SHIELD	GND					
A242A22	22A4P311	BB	SPLICE		x			
A242A22N	21J1	SHIELD	GND				x	
A242B22	SPLICE		19J1	E	x			
A242C22	SPLICE		19XK102	A2	x			
A243A22	19XK102	A1	22A4P311	AA	x			
A243A22N	21J1	SHIELD	GND				x	
A244A22	3A1P1	L	17CB1		x	x		
A244A22N	21A3P2	SHIELD	GND				x	
A244B22	3A1J1	L	SPLICE		x	x		
A244C22(WHT)	22A4P311	G	SPLICE		x			
A244C22(WHT)	22A4P15	C	SPLICE			x		
A244C22N(BLU)	22A4P311		GND		x			
A244C22N(BLU)	22A4P15		GND			x		
A244D22	19J1		SPLICE		x	x		
A244E22	3A1P1	H	17CB1		x	x		
A244F22(WHT)	3A1J1	H	17A1P1	J	x	x		
A244F22N(BLU)	GND		17A1P1	K	x			
A244F22N(BLU)	17A1	K	GND			x		
A245A22	22A5P2	40	5A2J1	B		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A245A22N	21A3P2	SHIELD	GND				X	
A246A22	19XK59	D2	22A4P311	A	X			
A246A22N	21A3P2	SHIELD	GND				X	
A247A22	22A4P311	T	19XK59	C2	X			
A247A22N	GND		SHIELD				X	
A249A22	22A4P311	X	22A2P1	F	X			
A249A22	22A4P15	AA	22A2P1	F		X		
A249A22N	GND		SHIELD				X	
A249B22	17R1	3	22A2J1	F	X	X		
A250A20N	24A4P311	E	GND				X	
A250A22	22A4P311	FF	22A2P1	D	X			
A250A22	22A2P1	D	22A4P15	GG		X		
A250B22	17S1		22A2J1	D	X	X		
A251A22	22A4P311	W	17P1	I	X			
A251A22	22A4P15	EE	17A1P1	I		X		
A251A22	17A1P1	H	17XK1	D3			X	
A252A22	22A4P311	G	17P1	2	X			
A252A22	22A4P15	DD	17P1	2		X		
A252A22	17A1P1	G	17XK1	C3			X	
A253A22	22A4P311	M	17P1	3	X			
A253A22	22A4P15	CC	17P1	3		X		
A253A22	17A1P1	W	17XKI	B3			X	
A254A22	SPLICE		22A4P311	H	X			
A254A22	22A4P15	BB	SPLICE			X		
A254A22	17A1P1	X	17XK1	A3			X	
A254B22	17P1	4	SPLICE		X	X		
A254C22	19XK84	C1	SPLICE		X			
A254C22	22A5P1	189	SPLICE			X		
A255A22	22A4P311	GG	17P2	I	X			
A255A22	17P2	I	22A4P15	Z		X		
A256A22	17P2	2	22A4P311	Y	X			
A256A22	17P2	2	22A4P15	Y		X		
A256A22	23A3P1	G	17XK1	D2			X	
A256B22	22A3J1	G	17DS1	2			X	
A257A22	22A4P311	I	17P2	3	X			
A257A22	22A4P15	X	17P2	3		X		
A257A22	22A3P1	K	17XK1	C2			X	
A257B22	22A3J1	K	17DS1	3			X	
A258A22	22A4P15	W	SPLICE			X		
A258A22	22A4P311	N	SPLICE		X			
A258A22	22A3P1	H	17XK1	B2			X	
A258B22	19XK83	B1	SPLICE		X			
A258B22	22A5P1	96	SPLICE			X		
A258B22	22A3P1	H	17DS1	1			X	
A258C22	SPLICE		17P2	4	X	X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
A259A22	22A4P312	<u>T</u>	17A1P1	<u>Z</u>	X			
A259A22	22A3P1	<u>J</u>	17XK1	<u>A2</u>			X	
A259A22N	17A1	<u>Z</u>	GND			X		
A259B22	22A3P1	<u>J</u>	17DS1	4			X	
A260A22	17A1P1	GG	22A4P312	<u>R</u>	X			
A260A22	22A4P15	<u>V</u>	17A1P1	GG		X		
A260A22	22A3J1	<u>Y</u>	17DS1	A(c)			X	
A260B22	22A3P1	Y	17XK1	X1			X	
A261A22	22A4P312	<u>N</u>	17A1P1	HH	X			
A261A22	22A4P15	<u>U</u>	17A1P1	HH		X		
A261A22N	17DS1	<u>C</u>	GND				X	
A262A22(BLU)	17A1P1	S	22A4P312	B	X			
A262A22(BLU)	17A1P1	<u>K</u>	22A4P14	<u>U</u>		X		
A262A22(WHT)	22A4P312	A	17A1P1	<u>K</u>	X			
A262A22(WHT)	22A4P14	<u>V</u>	17A1P1	S		X		
A263A22(BLU)	22A4P312	<u>Z</u>	17A1P1	<u>N</u>	X			
A263A22(BLU)	17A1P1	<u>N</u>	22A4P14	<u>S</u>		X		
A263A22(WHT)	17A1P1	U	22A4P312	D	X			
A263A22(WHT)	17A1P1	U	22A4P14	<u>T</u>		X		
A264A22(BLU)	17A1P1	<u>M</u>	22A4P312	<u>Y</u>	X			
A264A22(BLU)	22A4P14	<u>Q</u>	17A1P1	<u>M</u>		X		
A264A22(WHT)	17A1P1	T	22A4P312	<u>C</u>	X			
A264A22(WHT)	22A4P14	R	17A1P1	T		X		
A265A22(BLU)	22A4P312	<u>J</u>	SPLICE		X			
A265A22(BLU)	22A4P14	<u>W</u>	SPLICE			X		
A265A22(WHT)	22A4P312	V	SPLICE		X			
A265A22(WHT)	22A4P14	<u>X</u>	SPLICE			X		
A265B22(BLU)	17A1P1	X	SPLICE		X	X		
A265B22(WHT)	17A1P1	B	SPLICE		X	X		
A265C22(BLU)	20J332	<u>C</u>	SPLICE		X	X		
A265C22(WHT)	20J332	B	SPLICE		X	X		
A266A22(BLU)	22A4P312	X	SPLICE		X			
A266A22(BLU)	22A4P14	AA	SPLICE			X		
A266A22(WHT)	22A4P312	W	SPLICE		X			
A266A22(WHT)	22A4P14	BB	SPLICE			X		
A266B22(BLU)	17A1P1	A	SPLICE		X			
A266B22(BLU)	17A1P1	W	SPLICE			X		
A266B22(WHT)	17A1P1	W	SPLICE		X			
A266B22(WHT)	17A1P1	A	SPLICE			X		
A266C22(BLU)	20J332	F	SPLICE		X			
A266C22(BLU)	20J332	<u>G</u>	SPLICE			X		
A266C22(WHT)	20J332	<u>G</u>	SPLICE		X			

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A266C22(WHT)	20J332	F	SPLICE			X		
A267A22(BLU)	22A4P312	L	SPLICE		X			
A267A22(BLU)	22A4P14	Y	SPLICE			X		
A267A22(WHT)	22A4P312	U	SPLICE		X			
A267A22(WHT)	22A4P14	Z	SPLICE			X		
A267B22(BLU)	17A1P1	Y	SPLICE		X	X		
A267B22(WHT)	17A1P1	C	SPLICE		X	X		
A267C22(BLU)	20J332	E	SPLICE		X	X		
A267C22(WHT)	20J332	D	SPLICE		X	X		
A268A22	22A4P312	K	SHLD		X			
A269A22(BLU)	22A4P312	G	17A1P1	R	X			
A269A22(BLU)	22A4P13	Y	17A1P1	R		X		
A269A22(WHT)	17A1P1	P	22A4P312	F	X			
A269A22(WHT)	22A4P13	Z	17A1P1	P		X		
A270A22(BLU)	17A1P1	D	22A4P312	R	X			
A270A22(BLU)	22A4P13	E	17A1P1	D		X		
A270A22(WHT)	17A1P1	E	22A4P312	S	X			
A270A22(WHT)	22A4P13	F	17A1P1	E		X		
A271A20	21CB5		3A1P1	HH	X	X		
A271A20	21CB5		1TB13	6			X	
A271B20	5A1P1	X	3A1J1	HH	X	X		
A271B20	1TB13	6	5A1P1	X			X	
A271C20	21S1	1	5A1J1	X	X	X	X	
A272A20	21S2	3	5A1J1	Z	X	X	X	
A272B20	5A1P1	Z	SPLICE		X	X	X	
A272C20	21XK2	B1	SPLICE		X	X	X	
A272D20	21J1	X	SPLICE		X	X	X	
A272E20	21SQ1J1	B	21P1	X	X	X		
A272F20	21J2	X	SPLICE		X	X		
A272F20	21SQ1J1	B	21P1	Y			X	
A272G20	21P2	X	21SQ3J1	B	X	X		
A272G20	SPLICE		21J2	Y			X	
A272H20	21S2	3	21S1	6	X			
A272H20	21S1	5	21S2	3		X		
A272H20	21SQ3J1	B	21P2	Y			X	
A273A20	21K4P1	D	SPLICE		X	X	X	
A273A20	21K4P1	G	SPLICE				X	
A273B20	21J1	Q	SPLICE	X	X	X	X	
A273C20	21P1	Q	21SQ2J1	B	X	X		
A273C20	21SQ2J1	B	21P3	Y			X	
A273D20	21J2	Q	SPLICE		X	X		
A273D20	SPLICE		21J4	Y			X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A273E20	21P2	<u>Q</u>	21SQ4J1	<u>B</u>	x	x		
A273E20	21SQ4J1	<u>B</u>	21P4	<u>Y</u>			x	
A274A22(BLU)	17A1P1	<u>P</u>	22A4P312	<u>B</u>	x			
A274A22(BLU)	22A4P13	<u>A</u>	17A1P1	<u>V</u>		x		
A274A22(WHT)	17A1P1	<u>V</u>	22A4P312	<u>H</u>	x			
A274A22(WHT)	17A1P1	<u>P</u>	22A4P13	<u>B</u>		x		
A275A22	19S15	<u>5</u>	19R1	<u>3</u>			x	
A275A22(BLU)	17A1P1	<u>Z</u>	22A4P312	<u>G</u>	x			
A275A22(BLU)	22A4P13	<u>G</u>	17A1P1	<u>A</u>		x		
A275A22(WHT)	17A1P1	<u>A</u>	22A4P312	<u>P</u>	x			
A275A22(WHT)	22A4P13	<u>H</u>	17A1P1	<u>Z</u>		x		
A276A22(BLU)	17A1P1	<u>J</u>	SPLICE		x			
A276A22(BLU)	17A1P1	<u>I</u>	19TB7	H4		x		
A276A22(WHT)	17A1P1	<u>I</u>	SPLICE		x			
A276A22(WHT)	17A1P1	<u>J</u>	19TB7	C		x		
A276B22(BLU)	22A4P312	<u>C</u>	SPLICE		x			
A276B22(BLU)	19TB7	<u>F4</u>	22A4P13	<u>W</u>		x		
A276B22(WHT)	22A4P312	<u>J</u>	SPLICE		x			
A276B22(WHT)	19TB7	<u>A4</u>	22A4P13	<u>X</u>		x		
A276C22(BLU)	19A5P1	<u>A</u>	SPLICE		x			
A276C22(BLU)	19A5P1	<u>B</u>	19TB7	G4		x		
A276C22(WHT)	19A5P1	<u>B</u>	SPLICE		x			
A276C22(WHT)	19A5P1	<u>A</u>	19TB7	B4		x		
A277A22(BLU)	17A1P1	<u>S</u>	SPLICE		x			
A277A22(BLU)	17A1P1	<u>R</u>	19TB7	H5		x		
A277A22(WHT)	17A1P1	<u>R</u>	SPLICE		x			
A277A22(WHT)	17A1P1	<u>S</u>	19TB7	C5		x		
A277B22(BLU)	22A4P312	<u>F</u>	SPLICE		x			
A277B22(BLU)	19TB7	<u>F5</u>	22A4P13	<u>C</u>		x		
A277B22(WHT)	22A4P312	<u>N</u>	SPLICE		x			
A277B22(WHT)	22A4P13	<u>D</u>	19TB7	A5		x		
A277C22(BLU)	19A5P1	<u>T</u>	SPLICE		x			
A277C22(BLU)	19A5P1	<u>S</u>	19TB7	G5		x		
A277C22(WHT)	19A5P1	<u>S</u>	SPLICE		x			
A277C22(WHT)	19A5P1	<u>T</u>	19TB7	B5		x		
A278A20	21A7P1	<u>W</u>	GND(SHLD)				x	
A278A22(BLU)	19TB6	<u>G2</u>	22A4P312	<u>T</u>	x			
A278A22(BLU)	22A4P15	<u>W</u>	19TB6	G2		x		
A278A22(WHT)	19TB6	<u>G1</u>	22A4P312	<u>A</u>	x			
A278A22(WHT)	19TB6	<u>G1</u>	22A4P15	<u>X</u>		x		
A278B22(BLU)	19J1	<u>H</u>	19TB6	H2	x	x		
A278B22(WHT)	19J1	<u>J</u>	19TB6	H1	x	x		
A278B22(WHT)	19J1	<u>J</u>	19TB6	H1	x	x		
A278C22(BLU)	19TB6	<u>J2</u>	19A5P2	<u>E</u>	x	x		
A278C22(WHT)	19TB6	<u>J1</u>	19A5P2	<u>D</u>	x	x		
A279A20	21A7P1	<u>A</u>	GND(SHLD)				x	
A279A22	22A4P313	<u>H</u>	SPICE		x			

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A279A22	22A4P15	S	SPLICE			X		
A279B22	21K7P1	F	SPLICE		X	X		
A279C22	17A1P1	H	SPLICE		X	X		
A280A20N	21A7P1	X	GND				X	
A280A22	19XK84	B3	22A4P313	M	X			
A280A22	19TB4	J13	22A5P1	188		X		
A280B22	22A4P15	T	19TB4	G13	X	X		
A281A20N	21A7P1	B	GND				X	
A281A22(BLU)	19A5P1	B	19A1P1	G	X	X		
A281A22(WHT)	19A5P1	A	19A1P1	V	X	X		
A282A20	21A6P1	W	GND (SHLD)				X	
A282A22(BLU)	19A5P1	Z	19A1P1	F	X	X		
A282A22(WHT)	19A5P1	Y	19A1P1	R	X	X		
A283A20	21A6P1	A	GND (SHLD)				X	
A283A22(BLU)	19A5P1	F	19A1P1	E	X	X		
A283A22(WHT)	19A5P1	X	19A1P1	S	X	X		
A284A20N	21A6P1	X	GND				X	
A284A22	19A5P2	J	SPLICE		X	X		
A284B22	19XK81	B2	SPLICE		X			
A284B22	22A5P1	89	SPLICE			X		
A284C22	19J1	A	SPLICE		X	X		
A285A20N	21A6P1	B	GND				X	
A285A22	19A1P1	H	19A5P2	X	X	X		
A286A20	21A5P1	W	CAP (SHLD)				X	
A286A22N	19A5P2	Q	GND		X	X		
A287A20	21A5P1	A	(SHLD)				X	
A287A22	19TB4	B17	22A5P1	208	X	X		
A287A22	19XK106	X1	19TB4	B17	X			
A287B22	19TB4	C17	19XK87	B3	X			
A288A20	4A371	S	19TB4	F4		X		
A288A20N	21A5P1	X	GND				X	
A288A22	4A3J1	S	19TB4	H17	X			
A289A20N	21A5P1	B	GND				X	
A289A22	19TB4	D18	19XK101	B2	X			
A289A22	19TB4	D18	22A5P1	179		X		
A289B22	19TB4	J18	19XK106	A1	X			
A289C22	19TB4	F18	19TB4	K18		X		
A290A20	21A4P1	W	CAP (SHLD)				X	
A290A22	19TB4	C2	19XK101	X1	X			

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	E	M	P	
A290A22	19TB4	C2	22A5P1	174		X		
A291A20	21A4P1	A	CAP(SHLD)				X	
A291A22	19TB4	B2	19XK101	B1	X			
A291A22	19TB4	B2	22A5P1	178		X		
A292A20N	21A4P1	X	GND				X	
A29A22N	17A1P1	M	GND		X	X		
A293A20N	21A4P1	B	GND				X	
A293A22N	17A1P1	Q	GND		X			
A293A22N	17A1	Q	GND			X		
A294A20	21A7P1	Y	GND(SHLD)				X	
A294A22N	17P1	B	GND		X	X		
A294B22	17R1	3	22A2J1	F	X			
A295A20	21A6P1	Y	GND				X	
A295A22N	17P1	5	GND		X	X		
A296A20	21A5P1	Y	END CAP				X	
A296A22N	17P2	5	GND		X	X		
A297A20	21A4P1	Y	CAP(SHLD)				X	
A2978A22(BLU)	3T1P1	J	17A1P1	BB	X	X		
A297A22(ORN)	3T1P1	L	17A1P1	CC	X			
A297A22(WHT)	3T1P1	K	17A1P1	FF	X	X		
A298A20N	21A7P1	Z	GND				X	
A298A22	17A1P1	U	22A2P1	E	X	X		
A298B22	17S2	2	22AJ1	E	X	X		
A299A20N	21A6P1	Z	GND				X	
A299A22	17S2	1	17R1	4	X	X		
A300A20N	21A5P1	Z	GND				X	
A300A22N	19J1	W	GND		X	X		
A301A20	19AJ3	3	SPLICE				X	
A301A22N	19XK102	A3	GND		X			
A301B20	19A3J1	3	SPLICE				X	
A301C20	1XK5	32	19A1J1	R	X			
A301C20	1XK5	32	SPLICE				X	
A302A22	19A3J1	Q	19A1J3	Q			X	
A302A22N	19XK102	K2	GND		X			
A303A22	19A3J1	3	19A1J3	P			X	
A303B22	22A2P1	K	SPLICE		X			
A303B22	22A2J1	K	19s4	3		X		
A303C22	19S4	3	22A2J1	K	X			
A304A22	19A3J1	V	19A1J3	N			X	
A304A22N	19XK86	K2	GND		X			
A305A20	19A3J1	M	19A1J3	M			X	
A305A22N	19XK59	K2	GND		X			
A306A20	19A1J3	K	21K7P1	C			X	
A306A22N	19K82P1	3	GND		X	X		
A306B20	19A3J1	K	21K7P1	F			X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PiN	<u>E</u>	<u>M</u>	<u>P</u>	
A307A20	19A3J1	J	19A1J3	J			x	
A307A22N	19K82P1	A	GND		x	x		
A308A20	1TB13	4	SPLICE		x	x		
A308A20	21CB2		3A1P1	KK			x	
A308A22	19A3J1	I	19A1J3	I			x	
A308B20	20J1	A	SPLICE		x	x		
A308B20	1TB13	3	3A1J1	KK			x	
A308C20	20J2	A	SPLICE		x	x		
A308C20	1TB13	4	SPLICE				x	
A308D20	20J1	A	SPLICE				x	
A308E20	20P1	A	20P8J01	A	x	x	x	
A308F20	20J2	A	SPLICE				x	
A309A22	19A3J1	H	19A1J3	H			x	
A309A22N	19XK81	X2	GND		x			
A309A22N	22A5P1	83	GND			x		
A310A22	19A3J1	G	19A1J3	G			x	
A310A22N	19XK87	X2	GND		x			
A310A22N	22A5P1	195	GND			x		
4311A22	19A3J1	F	19A1J3	F			x	
4311A22N	19XK88	X2	GND		x			
A312A20	19A3J1	E	19A1J3	E			x	
A312A22N	19XK84	C2	GND		x			
A312A22N	22A5P1	190	GND			x		
A313A22(BLU)	19A3J1	D	19A1J3	D			x	
A313A22(WHT)	19A3J1	C	19A1J3	C			x	
A313A22N	19XK101	A3	GND		x			
A313A22N	22A5P1	177	GND			x		
A314A20	1XK5	B3	19L1P1	A	x		x	
14314A22N	19XK101	X2	GND		x			
A314A22N	22A5P1	173	GND			x		
A315A20	19A3J1	B	19A1J3	B			x	
A315A22	19XK81	A2	19TB4	J7	x			
A315A22	19TB4	J7	22A5P1	86		x		
14316A22	19TB4	G9	19XK83	A1	x			
A316A22	19TB4	G9	22A5P1	93		x		
A316A22	19A3J1	A	19A1J3	A			x	
A317A22	19TB4	K9	19XK86	A1	x			
A317A22	19TB4	B6	22A5P1	172		x		
A318A22	19TB4	C9	19XK85	B2	x			
A318A22(BLU)	19A3J1	Y	19A1J3	Y			x	
A318A22(WHT)	19A3J1	X	19A1J3	X			x	
A319A22	21K7P1	C	19XK88	A2	x			
A319A22	21K7P1	C	22A5P1	152		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	E	M	P	
A320A22(BLU)	19A3J1	W	19A1J3	W			x	
A320A22(WHT)	19A3J1	V	19A1J3	V			x	
A320A22N	END CAP		GND		x	x		
A321A22	19XK84	X2	17P1	6	x			
A321A22	17P1	6	22A5P1	181		x		
A322A20	19A3J1	U	19A1J3	U			x	
A322A22	19XK84	B1	SPLICE		x			
A322A22	19TB4	A15	22A5P1	186		x		
A322B22	19XK84	A2	SPLICE		x			
A322B22	19TB4	B15	22A5P1	184		x		
A322C22	19XK83	A2	SPLICE		x			
A322C22	19TB4	G15	22A5P1	94		x		
A322D22	19XK84	SPLICE	17A1P1	G	x			
A322D22	19TB4	H15	17A1	G		x		
A323A20	19A3J1	T	SPLICE				x	
A323A22N	22A5P1	97	GND			x		
A323A22N	GND		END CAP			x		
A323A22N	19XK83	B2	GND		x			
A323B20	SPLICE		19A1J3	T			x	
A323C20	SPLICE		24A4P311	D			x	
A324A22	19XK83	X2	17P2	6	x			
A324A22	17P2	6	22A5P1	91		x		
A324A22	19A3J1	S	19A1J3	S			x	
A325A22(BLU)	24A4P311	C	19A3J1	P			x	
A325A22(WHT)	24A4J311	X	19A3J1	R			x	
A326A22	19XK87	A3	19XK84	B2	x			
A326A22	19TB4	F12	22A5P1	199		x		
A326B22	19TB4	H12	22A5P1	187		x		
A326C22	19TB4	G12	21K7P1	H		x		
A327A22N	22A2J1	V	GND		x	x		
A327B22N	22A2P1	V	GND		x	x		
A328A22	19S4	2	22A2J1		x	x		
A328A22(BLU)	19A3J1	M	SPLICE				x	
A328A22(WHT)	19A3J1	L	SPLICE				x	
A328B22	19A1P1	P	22A2P1		x	x		
A328B22(BLU)	SPLICE		19A1J3	M			x	
A328B22(WHT)	19A3J1	SPLICE	19A1J3	L			x	
A328C22(BLU)	SPLICE		24A4P311	W			x	
A328C22(WHT)	SPLICE		24A4P311	B			x	
A329A22N	GND		END CAP		x	x		
A330A22	19A1P1	B	END CAP		x	x		
A331A22	19A1P1	C	END CAP		x	x		
A331A22(BLU)	19A3J1	H	19A1J3	H			x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A331A22(WHT)	19A3J1	G	19A1J3	G			x	
A332A22(BLU)	22A4P311	N	19TB6	A2	x			
A332A22(WHT)	22A4P311	J	19TB6	E1	x			
A332A22N	19TB6	D2	GND			x		
A332B22	3T1P1	Y	19TB6	B2	x	x		
A332C22	19TB6	C2	19A12P1	B	x	x		
A332D22N	19TB6	D2	GND		x			
A333A22	19TB6	B2	19A12P1	C	x			
A333A22	19A2P1	C	19TB61	B1		x		
A333A22(BLU)	19A3J1	E	SPLICE				x	
A333A22(WHT)	19A3J1	D	SPLICE				x	
A333B22(BLU)	19A3J1	SPLICE	19A1J3	E			x	
A333B22(WHT)	19A3J1	SPLICE	19A1J3	D			x	
A333C22(BLU)	SPLICE		24A4P311	V			x	
A333C22(WHT)	SPLICE		22A4P311	A			x	
A334A20	21K7P1	E	19TB4	G15			x	
A335A20	19A3J1	Z	19A1J3	Z			x	
A335A22	19A12P1	A	3T1P1	M	x	x		
A335A22	3T1P1	M	19A12P1	A		x		
A336A22	19A3J1		19A1J3	S			x	
A336A22N	19A12P1	A/B/C SHIELD	GND		x	x		
A337A22	19XK106	A2	4A3J1	N	x			
A337A22	4A3J1	N	SPLICE			x		
A337A22	19A3J1	T	19A1J3	T			x	
A337B22	22A5P1	108	SPLICE			x		
A337C22	22A5P1	122	SPLICE			x		
A338A22	19XK85	X2	19K82P1	F	x			
A338A22	19K82P1	F	22A5P1	99		x		
A338A22	19A3J1	U	19A1J3	U			x	
A339A20	19A3J1	V	19A1J3	V			x	
A339A22	19K82P1	K	SPLICE		x	x		
A339B22	19XK86	X1	SPLICE		x			
A339B22	22A5P1	105	SPLICE			x		
A339C22	SPLICE		SPLICE		x	x		
A339D22	19XK87	B1	SPLICE		x			
A339D22	22A5P1	200	SPLICE			x		
A339E22	22A5P1	171	SPLICE			x		
A340A20	19A3J1	W	19A1J3	W			x	
A340A22	19XK106	A3	SPLICE		x			
A340B22	SPLICE		19XK98	X1	x			
A340C22	19XK81	A3	SPLICE		x			
A341A22	19A3J1	Z	19A1J3	Z			x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A341A22N	19XK106	X2	GND		x			
A342A22	20TB3	2	19K82	E	x			
A342A22	19K82P1	E	20TB3	2	x			
A342A22	19A3J1	AA	19A1J3	AA			x	
A342B22	19XK106	X1	20TB3	2	x			
A342B22	21XK6	X1	20TB3	2	x			
A342B22	20TB3	2	22A5P1	232		x		
A343A20	19A3J1	BB	19A3J3	BB			x	
A343A22	4A3J1	E	SPLICE		x			
A343A22	22A5P1	119	4A3J1	B		x		
A343B22	4A3J1	B	SPLICE	X				
A343C22	19XK98	A1	SPLICE		x			
A343D22	19XK81	D2	SPLICE		x			
A343E22	SPLICE		22A2J1	K	x			
A343F22	19XK81	D3	22A2P1	K	x			
A343G22	19S13	12	SPLICE		x			
A343H22	19S13	8	SPLICE		x			
A344A20	2TB2	2	3A1J1	F	x			
A344A20	3A1J1	F	2TB2	1		x		
A344A20	19A3J1	CC	19A1J3	CC			x	
A344B20	3A1P1	F	10CB3		x	x		
A344C20	10CB3		19CB2		x	x		
A344E20	16CB4		16CB3			x		
A344F20	16CB4		18CB1			x		
A345A1N	19TB1	1	GND				x	
A345A16	2TB2	4	3A1J1	Z	x	x		
A345B16	3A1P1	Z	19CB6		x	x		
A346A16	2TB2	5	3A1J1	Y	x	x		
A346A20	19A6P1	S	19A8P1	E			x	
A346B16	3A1P1	Y	19CB6		x	x		
A346C16	19CB6		21CB5		x	x		
A347A20	19A8P1	F	19A1J4	B			x	
A348A20	19A8P1	G	19A1J4	C			x	
A348A22	19TB5	B4	17A1P1	H	x			
A348A22N	21XK6	X2	GND		x			
A348A22N	22A5P1	231	GND			x		
A349A20	19A8P1	H	19A1J4	D			x	
A349A22	19XK98	A2	19XK85	B3	x			
A349A22	22A5P1	87	22A5P1	110		x		
A350A20	19A6P1	A	19A1J4	E			x	
A350A22	19XK98	B3	19XK95	B1	x			
A350A22	22A5P1	114	22A5P1	214		x		
A351A22	19A6P1	B	19A1J4	F			x	
A351A22N	19XK98	X2	GND		x			
A351A22N	22A5P1	107	GND			x		
A352A20	19A6P1	C	19A1J4	G			x	
A352A22	19XK80	B3	22A2P1	Y	x			
A352A22	22A2P1	Y	22A5P2	42		x		
A352B22	19s13	11	22A2J1	Y	x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A353A20	19A6P1	D	19A1J4	H			X	
A353A22	19s13	10	22A2J1	<u>B</u>	x	x		
A353B22	22A2P1	<u>B</u>	SPLICE		x			
A353B22	19TB4	D11	22A2P1	<u>B</u>		x		
A353C22	19XK86	A2	19TB4	K11	x			
A353C22	22A5P1	201	19TB4	K11		x		
A353D22	19XK87	B2	SPLICE		x			
A353D22	19TB4	J11	SPLICE			x		
A353E22	20A1J09	H	SPLICE			x		
A353G22	19TB4	E11	22A5P1	50		x		
A354A20	19A6P1	E	19A1J4	J			X	
A354A22	19s5	1	22A2J1	<u>M</u>	x			
A354A22	22A2J1	<u>M</u>	19S5	3		x		
A354B22	19XK59	C1	22A2P1	<u>M</u>	x			
A355A20	19A6P1	F	19A1J4	K			X	
A355A22	19s5	4	22A2J1	<u>N</u>	x	x		
A355B22	19XK59	D1	22A2P1	<u>N</u>	x			
A356A20	19A6P1	G	19A1J4	L			X	
A356A22	19s5	2	19S5	6	x	x		
A357A20	19A6P1	H	19A1J4	M			X	
A357B22	19DS5	1	19DS5	4	x	x		
A358A20	19A6P1	K	19A1J4	N			X	
A358B22	19DS5	2	19DS5	3	x	x		
A359A16	21CB6		3A1P1	FF			X	
A359A20	21CB6		3A1P1	P	x	x		
A359B16	19K31	D2	3A1J1	FF			X	
A359B20	19K31	D2	3A1J1	P	x	x		
A359C16	19K31	D2	21A3P1	K			X	
A359D16	19K31	D2	21A2P1	K			X	
A360A20	19A11P1	H	19A1J4	R			X	
A 3 6 0 A 2 2	19TB5	D1	19XK91	A3	x			
A360A22	19TB5	D1	22A5P1	139		x		
A361A20	19A11P1	G	19A1J4	S			X	
A361A22	19TB5	B3	19XK91	A1	x			
A361A22	19TB5	B3	22A5P1	137		x		
A362A20	19A11P1	F	19A1J4	T			X	
A362A22	19TB5	D3	19XK91	B3	x			
A362A22	22A5PI	142	19TB5	D3		x		
A363A20	19A6P1	T	A11J1	E			X	
A363A22	19XK91	B1	19TB5	B1	x			
A363A22	19TB5	B1	22A5P1	140		x		
A364A20	19A1J4	V	19XK81	B1			X	
A364A22N	19XK91	X2	GND		x			

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A364A22N	22A5P1	135	GND			x		
A365A22	19XK91	X1	8TB8	K4	x			
A365A22	22A5P1	136	8TB8	K4		x		
A366A22	19TB5	B2	19XK92	A1	x			
A366A22	19TB5	B2	22A5P1	159		x		
A366A22	19CB1		3A1P1	BB			x	
A366B22(BLU)	19A1J4	Y	GND				x	
A366B22(WHT)	19A1J4	X	3A1J1	66			x	
A366C22N	3A1J1	BB	GND				x	
A367A22	19TB5	D4	19XK92	A3	x			
A367A22	19TB5	D4	22A5P1	161		x		
A368A22	19TB5	G3	19XK92	B1	x			
A368A22	19TB5	G3	22A5P1	162		x		
A368A22	19A1J5	<u>B</u>	19TB4	H16			x	
A369A20	SPLICE		19XK81	B3			x	
A369A22	19TB5	J1	19XK92	63	x			
A369A22	19TB5	J1	22A5P1	164		x		
A369620	5A2J1	F	SPLICE				x	
A369C20	SPLICE		19XK87	C3			x	
A369D20	SPLICE		19A1J1	<u>C</u>			x	
A370A20	19S12	1	22A2J1	L			x	
A370B20	19TB2	1	22A2P1	L			x	
A370C20	19A1J4	<u>B</u>	19TB2	1			x	
A370D20	19TB2	1	19CR1	A			x	
A370E20	19K31	X1	19TB2	1			x	
A370F20	19TB4	F	19XK80	B2			x	
A370G20	19K31	A2	19K31	X1			x	
A370K20	19TB4	G	21XK6	B2			x	
A317A22	BTB7	D2	19XK92	X1	x			
A371A22	22A5P1	158	1TB10	D6		x		
A372A22	19TB5	E4	22A2P1	G		x		
A372622	19DS5	NC	22A2J1	G	x	x		
A373A22	19TB5	K1	22A2P1	D	x	x		
A373622	19DS5	NC	22A2J1	D	x	x		
A374A22	19TB5	G1	19XK91	C1	x			
A374A22	19TB5	G1	22A5P1	143		x		
A375A20	22A2J1	N	19S13	1			x	
A375A22	19TB5	J3	19XK91	C3	x			
A375A22	19TB5	J3	22A5P1	145		x		
A375B22	19CR3	11	22A2P1	N			x	
A376A22	19S13	3	19CR17	E2	x	x		
A377A22	19S13	5	19CR18	E1	x	x		
A377A22	19A1J5	<u>E</u>	19TB4	F16			x	
A378B20N	19A1J4	<u>M</u>	GND				x	
A378C20N	19A1J4	H	GND				x	
A379A22	22A2P1	T	8TB4	B1	x	x		
A379A22 *	22A2P1	T	END CAP		x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A379A22	19A1J5	M	19XK59	B2			x	
A379B22	8J104		22A2J1	T	x	x		
A380A22	22A2P1	S	19TB5	K6	x			
A380A22	19TB5	K6	22A2P1			x		
A380A22	19A1J5	G	19XK59	A2			x	
A380B22	19TB5	F6	4A1J1	T	x	x		
A382A22	19A4P249	B	(SHLD)		x	x		
A382A22	19A6P1	R	19A1J4	R			x	
A383A20	19A6P1	M	19A1J4	I			x	
A383A22	17A1P1	W	19TB5	A5	x	x		
A384A20	19A6P1	W	19A8P1	G			x	
A384A22	17A1P1	H	19TB5	B4	x	x		
A385A20	19S13	9	19S13	12			x	
A385A22	17A1P1	G	19TB5	G2	x	x		
A385B20	22A2J1	K	19s13	9			x	
A385C20	SPLICE		22A2P1	K			x	
A385D20	4A3J1	E	SPLICE				x	
A385E20	4A3J1	B	SPLICE				x	
A385F20	19XK85	B3	SPLICE			x		
A385G20	19S13	12	19S14	5			x	
A385H20	19S14	2	19S14	5			x	
A386A20	19A6P1	U	19A1J4	U			x	
A386A22	17A1P1	X	19TB5	G4	x	x		
A387A20	19A6P1	V	19A1J4	V			x	
A387A22N	19XK92	X2	22A5P1	157	x			
A388A4	19K7	A1	19S18	L1	x	X		
A388A22	19A6P1	N	19A1J4	W		x		
A389A4	2K13	A2	19K7	A2	x	x		
A389A22	19A6P1	P	19A1J4	X			x	
A390A22	19A4P271	J	19K7	X1	x	x		
A390A22	19A6P1	J	19A1J4	Y			x	
A391A122	22A2J1	C	19S13	4			x	
A391A22N	19K7	X2	GND		x	x		
A391B22	19XK81	X1	22A2P1	C			x	
A391C20	22A2J1	U	19S13	6			x	
A391C22	22A2J1	H	19S13	4			x	
A391D22	19A1J4	Z	22A2P1	H			x	
A392A20	19K31	B3	19XK91	A2			x	
A392A22	19A1P1	J	9TB1	F10	x	x		
A392B20	19K31	B3	19XK92	A2			x	
A393A22	19A1P1	K	9TB1	A10	x	x		
A393A22	19A1J5	E	19TB4	G			x	
A394A22	19A1P1	L	9TB1	A9	x	x		
A394A22	19A1J5	F	19TB4	J			x	
A395A20	19K31	A1	19XK91	B2			x	
A395B20	19K31	A1	19XK92	B2			x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	E	M	P	
A396A16	19CB2		3A1P1	Y			X	
A396A22(BLU)	19A9P1	K	22A4P311	X	X			
A396A22(BLU)	19A5P1	K	22A4P13	CC		X		
A396A22(WHT)	19A5P1	J	22A4P13	DD		X		
A396B16	SPLICE		3A1J1	Y			X	
A396C20	19A1J4	G	SPLICE				X	
A396D20	19A1J4	EE	SPLICE				X	
A397A20N	22A2J1	V	GND				X	
A397A22	19XK81	D1	22A2P1	C	X			
A397A22N	19J2	E	GND		X	X		
A397B20N	22A2P1	V	GND				X	
A398A22N	19J2	B	GND		X	X		
A399A20	4A3J1	F	19XK81	B2			X	
A400A22	19A1P1	U	19A1P1	T	X	X		
A401A20N	21XK10	X2	GND			X		
A402A20	21XK10	X1	19TB4	F11		X		
A403A20	19TB4	G11	22A5P2	43		X		
A404A22	21XK10	B2	19TB4	B12		X		
A405A22	19TB4	A11	21XK10	B3		X		
A406A22	19TB4	B11	22A5P1	48		X	X	
A407A22	19TB4	G18	22A5P1	49		X		
A407A22N	19XK59	X2	GND				X	
A408A22N	22A5P1	47	GND			X		
A409A20	19S8	2	19S8	4			X	
A409A22	22A5P2	44	22A5P2	72		X		
A410A22	5A2J1	B	SPLICE		X			
A410B22	5A2J1	E	SPLICE		X			
A410C22	19XK80	B1	SPLICE		X			
A411A20	19TB3	7	19XK81	A1				X
A411B20	19A1J4	P	19TB3	7				X
A411C20	19TB3	7	19K1P1	E			X	
A413A20N	21A4P1	Z	GND				X	
A414A22N	SHIELD		GND				X	
A415A22N	SHIELD		GND				X	
A416A22N	SHIELD		GND				X	
A417A22N	SHIELD		GND				X	
A418A22N	SHIELD		GND				X	
A419A22N	SHIELD		GND				X	
A420A16	19CB2		3A1P1	AA			X	
A420B16	3A1J1	AA	SPLICE				X	
A420C20	22A2P1	C	SPLICE				X	
A420D20	19S12	5	22A2J1	C			X	
A420E20	22A2P1	A	SPLICE				X	
A420F20	19S12	5	22A2J1	A			X	
A420G20	19DS4	B (no)	19S12	5			X	
A420H20	19DS4	A (no)	19DS4	B(no)			X	
A420J20	19DS4	A (no)	19DS5	B(no)			X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A420K20	19DS5	A(no)	19DS5	B (no)			X	
A420L16	SPLICE		SPLICE				X	
A420M20	19XK80	F1	SPLICE				X	
A421A20	19TB4	B	19XK86	A			X	
A422A20	19A6P1	X	19A1J4	U			X	
A423A20	19A6P1	L	19A1J4	<u>S</u>			X	
A424A20	19TB4	F	19XK85	B2			X	
A425A20	19TB4	D1	19XK87	D1			X	
A427A20	19TB4	B	19XK85	A2			X	
A428A20	19TB4	C	19XK85	X1			X	
A428B20	19TB4	D	19XK85	B1			X	
A430A20	4A3J1	C	19XK81	A2			X	
A431A20	SPLICE		19XK87	D3			X	
A431B20	5A2J1	SPLICE	5A3J1	C			X	
A431C20	SPLICE		19XK81	A1			X	
A431D20	SPLICE		SPLICE				X	
A431E20	SPLICE		19A1J1	<u>D</u>			X	
A431F20	19XK72	A2	SPLICE				X	
A431G20	19XK72	X1	SPLICE				X	
A437A20	19XK72	A1	19A1J1	S			X	
A438A20N	19XK72	X2	GND				X	
A440A18	20CB2		SPLICE		X	X	X	
A440B18	20J332	MM	SPLICE		X		X	
A440C18	20J237	A	SPLICE		X	X	X	
A441A18N	20J237	B	GND		X	X	X	
A442A22	21A1P1	<u>C</u>	21A2P1	A			X	
A442B22	21S7		21A1J1	<u>C</u>			X	
A443A22	21S7	1	21A1J1	R			X	
A443B22	21A1P1	R	21 A2P1	B			X	
A444A22	21S7	2	21A1J1	Z			X	
A444B22	21A2P1	C	21A1P1	Z			X	
A445A22	21S7	3	21A1J1	<u>A</u>			X	
A445B22	21A2P1	D	21A1P1	<u>A</u>			X	
A446A22	21S7	4	21A1J1	<u>B</u>			X	
A446B22	21A1P1	<u>B</u>	21A2P1	E			X	
A447A20	21S8	3	22A3J1	T	X	X	X	
A447B20	22A3P1	T	19TB4	A14	X	X	X	
A447C20	22A2P1	F	19TB4	B14	X	X	X	
A447D20	21S6	3	22A2J1	F	X	X	X	
A447E20	19TB4	C14	SPLICE		X	X	X	
A447F20	21J2	Y	19TB4	A14	X	X	X	
A447G20	21P2	Y	21A10P1	C	X	X	X	
A447H20	21J1	Y	21A8P1	C	X	X	X	
A447J20	21P1	Y	21A11P1	C	X	X	X	
A447K20	21A9P1	A	21P2	CW			X	
A449A16	19K31	D1	21A3P1	L			X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A449A20	19K31	D1	21A1P1	29	x	x		
A449B16	21A2P1	L	19K31	D1			x	
A449B22	21A1P1	96	SPLICE		x	x		
A449C22	21A1P1	97	SPLICE		x	x		
A450A16N	21A2P1	M	GND				x	
A450A22N	END CAP		GND			x		
A451A20	21A2P2	A	21J3	A			x	
A451A22N	22A4P131	J	GND			x		
A451B22	21A5P1	A	21P3	A			x	
A452A20	21J3	B	21A2P2	B			x	
A452A22N	END CAP		GND			x		
A452B20	21A5P1	B	21P3	B			x	
A453A20	21J3	C	21A2P2	C			x	
A453A22N	22A4P14	J	GND			x		
A453B20	21A5P1	C	21P3	C			x	
A454A20	21A2P2	D	21J3	D			x	
A454A22N	END CAP		GND			x		
A454B20	21A5P1	D	21P3	D			x	
A455A20	21A2P2	E	21J3	E			x	
A455A22	19A5P2	E	(SHLD)			x		
A455B20	21A5P1	E	21P3	E			x	
A456A20	21A2P2	F	21J3	F			x	
A456B20	21A5P1	F	21P3	F			x	
A457A20	21A2P2	G	21J3	G			x	
A457A22	19TB4	J1	22A5P1	168		x		
A457B20	21A5P1	G	21P3	G			x	
A458A20	21A2P2	H	21J3	H			x	
A458A22	22A5P1	207	SPLICE			x		
A458B20	21A5P1	H	21P3	H			x	
A458B22	22A5P1	166	SPLICE			x		
A458C22	20A1J09	F	22A5P1	207		x		
A459A20	21A2P2	J	21J3	J			x	
A459A22N	22A5P1	165	GND			x		
A459B20	21A5P1	J	21P3	J			x	
A460A20	21A2P2	K	21J3	K			x	
A460A22N	22A5P1	209	GND			x		
A460B20	21A5P1	K	21P3	K			x	
A461A20	21A2P2	L	21J3	L			x	
A461B20	21A5P1	L	21P3	L			x	
A462A20	21A2P2	M	21P3	M			x	
A462B20	21A5P1	M	21P3	M			x	
A463A20	21A2P2	N	21J3	N			x	
A463A22	20CB4	B2	18CB2	2		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A463B20	21A5P1	N	21P3	N			x	
A464A20	21A2P2	P	21J3	P			x	
A464A22	20CB4	2	16CB2	1		x		
A464B20	21A5P1	P	21P3	P			x	
A465A20	21A2P2	R	19TB4	D6			x	
A465A22	19TB4	D6	22A2P1	K		x		
A465B20	21A5P1	R	21P3	R			x	
A465B22	19TB4	J6	22A5P1	118		x		
A465C22	22A2J1	K	19S13	12		x		
A466A20	21A2P2	S	21P3	S			x	
A466B20	21A5P1	S	21P3	S			x	
A467A16	3A1P1	DD	21CB3			x	x	
A467A20	21A2P2	T	21J3	T			x	
A467B16	3A1J1	DD	21K1	B2	x	x	x	
A467B20	21A5P1	T	21P3	T			x	
A468A20	21A2P2	U	21J3	U			x	
A468A22	19TB4	E19	22A2P1	C		x		
A468B20	21A5P1	U	21P3	U			x	
A468B22	19TB4	J19	16A1P2	58		x		
A468C22	19TB4	K19	22A5P1	123		x		
A468D22	22A2J1	C	19S13	4		x		
A469A20	21A2P2	V	21J3	V			x	
A469A22	16A1P2	34	19A5P2	R		x		
A469B20	21A5P1	V	21P3	V			x	
A470A16	21CB4		3A1P1	EE	x	x	x	
A470B16	3A1J1	EE	21K1	A2	x	x	x	
A471A20	21A2P3	A	21J4	A			x	
A471A22	16A2P1	D	22A5P1	124		x		
A471B20	21A4P1	A	21P4	A			x	
A472A20	21A2P3	B	21J4	B			x	
A472A22	16A1P2	37	22A5P1	127		x		
A472B20	21A4P1	B	21P4	B			x	
A473A20	21A2P3	C	21J4	C			x	
A473A22N	22A5P1	121	GND			x		
A473B20	21A4P1	C	21P4	C			x	
A474A20	21A2P3	D	21J4	E			x	
A474B20	21A4P1	D	21P4	D			x	
A475A20	21A2P3	E	21J4	E			x	
A475B20	21A4P1	E	21P4	E			x	
A476A20	21A2P3	F	21J4	F			x	
A476B20	21A4P1	F	21P4	F			x	
A477A20	21A2P3	G	21J4	G			x	
A477B20	21A4P1	G	21P4	G			x	
A478A20	21A2P3	H	21J4	H			x	
A478A22	22A3J1	F	19S16	6		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A478B20	21A4P1	H	21P4	H			X	
A479A20	21J4	J	21A2P3	J			X	
A479A22	19A5P1	C	END CAP			X		
A479B20	21A4P1	J	21P4	J			X	
A480A20	21J4	K	21A2P3	K			X	
A480A22	22A2J1	R	19S12	1	X	X		
A480B20	21A4P1	K	21P4	K			X	
A480B22	22A2P1	R	SPLICE		X	X		
A480C22	19XK38	X1	SPLICE		X	X		
A480D22	19XK80	F2	SPLICE		X			
A480D22	22A5P2	53	SPLICE			X		
A480E22	2XK17	X1	SPLICE			X		
A480E22	2XK17	X1	22A2P1	R	X			
A481A20	21A2P3	L	21J4	L			X	
A481B20	21A4P1	L	21P4	L			X	
A482A20	21A2P3	M	21J4	M			X	
A482B20	21A4P1	M	21P4	M			X	
A483A20	21A2P3	N	21J4	N			X	
A483B20	21A4P1	N	21P4	N			X	
A484A20	21A2P3	P	21J4	P			X	
A484B20	21A4P1	P	21P4	P			X	
A485A20	21A2P3	R	21J4	R			X	
A485B20	21A4P1	R	21P4	R			X	
A486A20	21A2P3	S	21J4	S			X	
A486B20	21A4P1	S	21P4	S			X	
A487A20	21A2P3	T	21J4	T			X	
A487B20	21A4P1	T	21P4	T			X	
A488A20	21A2P3	U	21J4	U			X	
A488B20	21A4P1	U	21P4	U			X	
A489A20	21A2P3	V	21J4	V			X	
A489B20	21A4P1	V	21P4	V			X	
A490A22N	SHLD		GND				X	
A491A22N	SHLD		GND				X	
A492A22N	SHLD		GND				X	
A493A22N	SHLD		GND				X	
A494A22N	SHLD		GND				X	
A495A22N	SHLD		GND				X	
A496A22(BLU)	19R2P1	A	19A2J8	A			X	
A496A22(ORN)	19R2P1	B	19A1J8	B			X	
A496A22(WHT)	19R2P1	C	19A1J8	C			X	
A500A20	21XK6	B3	19TB4	G13			X	
A500B20	19XK80	C2	19TB4	B13			X	
A500C20	21A1P1	H	19TB4	F13			X	
A500D20	SPLICE		21A1J1	H			X	
A500E20	21S6	3	SPLICE				X	
A500F20	2 1 S 6	1	SPLICE				X	
A500G20	19XK80	E2	19TB4	A13			X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A501A20	19XK80	C1	5A2J1	R	x		x	
A501A20	19TB4	H11	5A2J1	R		x		
A502A20	19XK80	C3	4A3J1	R	x		x	
A502A20	22A5P2	45	4A3J1	R		x		
A503A20	19CB3		3A1P1	Z			x	
A503B20	19XK80	E1	3A1J1	Z			x	
A504A20	22A1J1	J	21S4	2		S	x	
A504B20	21XK2	A2	22A1P1	J	x	x	x	
A505A20	22A3P1	S	5A2J1	T	x		x	
A505A20	22A3P1	T	21XK10	A1		x		
A505A20	21XK10	A1	22A3P1	S		x		
A505B20	21S8	2	22A3J1	S	x	x	x	
A506A20	19TB4	C7	21XK2	X1	x	x	x	
A507A20N	21XK2	X2	GND		x	x	x	
A508A20	SPLICE		21XK2	A3	x	x	x	
A508B20	21K4P1	G	SPLICE		x	x		
A508B20	21K4P1	D	SPLICE				x	
A508C20	21K4P1	K	SPLICE		x	x	x	
A509A20	21CB1		3A1J1	HH			x	
A509B20	21CB2		3A1P1	HH			x	
A510A20N	21K4P1	A	GND		x	x	x	
A511A22N	21K5P1	A	GND		x	x	x	
A512A20N	21K7P1	A	GND			x	x	
A512A22N	21K7P1	A	GND		x			
A513A20	21XK2	B3	SPLICE		x	x	x	
A513B20	21K5P1	G	GND		x			
A513B20	21K5P1	G	SPLICE			x		
A513B20	21K5P1	D	SPLICE				x	
A513C20	21K5P1	K	SPLICE		x	x	x	
A515A20	22A2P1	E	4A3J1	T	x			
A515A20	19TB4	C11	4A3J1	T		x		
A515A20	21A1P1	E	4A3J1	T			x	
A515B20	21S6	2	22A2J1	E	x	x		
A515B20	21S6	5	21A1J1	E			x	
A516A20	21S2	4	5A1J1	Y	x	x	x	
A516B20	5A1P1	Y	21XK2	B2	x	x	x	
A517A20	21S2	5	21S1	2	x		x	
A517B20	21S2	2	21S2	5	x	x	x	
A520A20	21DS1	2	21S6	2			x	
A521A20N	21DS1	1	GND				x	
A522A20N	19K1P1	A	GND				x	
A523A20	19S15	6	19A13J1	A			x	
A524A20N	GND		19A13J1	B			x	
A525A20	19S15	4	19A13J1	C			x	
A526A20N	GND		19A13J2	A			x	
A527A20	19S15	1	19A13J2	B			x	
A527B20	19S15	3	19S15	1			x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A528A20	17S1	2	19S12	4			x	
A528A22	19S12	4	22A2J1	B			x	
A528B20	19TB2	2	22A2P1	B			x	
A528C20	19S12	4	22A2J1	W			x	
A528D20	19TB4	A	22A2P1	W			x	
A528E20	19TB4	K	19TB4	F			x	
A528F20	19TB4	G	19XK80	A2			x	
A528G20	19XK80	F2	19TB4	H			x	
A528H20	19TB4	J	19K31	B2			x	
A528J20	22A2P1	<u>T</u>	19TB4	K7			x	
A528K20	19XK84	X1	19TB4	B4			x	
A528L20	24A4P311	<u>C</u>	19TB4	C4			x	
A528M20	17A1P1	L	19TB4	D4			x	
A528N20	19XK83	X1	19TB4	E4			x	
A528P20	19TB4	J(5)	22A3P1	B			x	
A528R20	19S6	2	22A3J1	B			x	
A528S20	19S12	4	17S1	2			x	
A528U20	19TB4	C5	21K1	X1	x	x	x	
A528V20	19TB4	B5	SPLICE		x	x		
A528V20	21A1P1	J	19TB4	B5			x	
A528W20	19TB4	A5	21K7P1	K	x	x	x	
A528X20	21DS1	3	21A1J1	J			x	
A528X22	21A1P1	27	SPLICE		x			
A528X22	21A1P1	63	SPLICE		x	x		
A528Y22	21A1P1	64	SPLICE		x			
A528Y22	21A1P1	26	SPLICE		x			
A528Y22	21A12P1	64	SPLICE			x		
A529A20	21XK10	43	22A2P1	E		x		
A529A20	19TB2	2	22A3P1	V			x	
A529B20	22A3J1	V	19DS1	B(NO)			x	
A529C20	19DS1	B(NO)	19DS1	A(NO]			x	
A529E20	19DS2	A(NO]	19DS2	B(NO)			x	
A529F20	19DS2	B(NC)	19DS3	3			x	
A529G20	19DS3	3	19S8	5			x	
A529H20	19S16	1	19S8	5			x	
A529J20	17S4	2	19S16	1			x	
A529K20	17S4	2	17S5	1			x	
A529L20	19TB2	3	SPLICE				x	
A529M20	19S15	2	SPLICE		x		x	
A529N20	19S15	2	19R1	2			x	
A529P20	19TB3	5	22A3P1	<u>T</u>			x	
A529R20	17S5	1	17DS1	A(A) (NO)			x	
A529S20	19TB5	F	19TB2	3			x	
A529T20	17XK1	D1	19TB5	G				

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
A529U20	17XK1	C1	19TB5	H			X	
A529V20	17XK1	B1	19TB5	J			X	
A529W20	17XK1	A1	19TB5	K			X	
A529X20	19TB2	1	19CR35	6			X	
A530A20	21XK10	B1	5A2P1	T		X		
A532A20N	21XK6	X2	GND				X	
A536A20N	21A5P1	C	GND				X	
A537A20N	21A7P1	C	GND				X	
A538A20N	21A4P1	C	GND				X	
A539A20N	21A6P1	C	GND				X	
A540A22	22A3P1	H	19XK80	D2			X	
A540B22	22A3J1	H	19S5	2			X	
A540C22	19S5	2	19S5	5			X	
A541A22	19S6	1	22A3J1	L			X	
A541B22	22A3P1	L	SPLICE				X	
A541C22	19A1J1	Z	SPLICE				X	
A541D22	24A4P311	D	SPLICE				X	
A542A22	19S8	6	22A3J1	A			X	
A542B22	24A4P311	A	22A3P1	A			X	
A543A22	19S8	3	22A3J1	E			X	
A543B22	24A4P311	I	22A3P1	E			X	
A545A20N	22A3J1	R	GND				X	
A545B20N	22A3P1	R	GND				X	
A546A20	19TB3	8	19XK80	A1			X	
A546B20	5A2J1	N	19TB3	8			X	
A547A22	19XK80	B1	SPLICE				X	
A547B22	5A2J1	B	SPLICE				X	
A547C22	5A2J1	E	SPLICE				X	
A547D22	SPLICE		19XK80	D1			X	
A550A22	21A1P1	84	SPLICE		X			
A550A22	21A12P1	84	SPLICE			X		
A550B20	21J2	U	SPLICE		X	X		
A550C22	21P2	U	SPLICE		X	X		
A550D22	21A2P1	6	SPLICE		X	X		
A550E22	21A3P1	6	SPLICE		X	X		
A550F20	21J1	U	SPLICE		X	X		
A550G20	21P1	U	SPLICE		X	X		
A550H22	21A4P1	6	SPLICE		X	X		
A550J22	21A5P1	6	SPLICE		X	X		
A551A20N	SPLICE		GND		X	X		
A551B22	21A1P1	69	SPLICE		X			
A551B22	21A12P1	69	SPLICE			X		
A551C22	21A1P1	70	SPLICE		X			
A551C22	21A12P1	70	SPLICE			X		
A552A22(BLU)	21A1P1	75	SPLICE		X			
A552A22(BLU)	21A12P1	75	SPLICE			X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	☐	☐	☐	
A552A22(BLU)	21A1P1	75	SPLICE			X		
A552A22(WHT)	21A1P1	74	SPLICE		X			
A552A22(WHT)	21A12P1	74	SPLICE			X		
A522A22N	17P1	5	GND				X	
A552B22	17P1	8	17P1	5			X	
A552B22(BLU)	21J2	K	SPLICE		X	X		
A552B22(WHT)	21J2	J	SPLICE		X	X		
A552C22(BLU)	21P2	K	SPLICE		X	X		
A552C22(WHT)	21P2	J	SPLICE		X	X		
A552D22(BLU)	21A2P1	2	SPLICE		X	X		
A552D22(WHT)	21A2P1	1	SPLICE		X			
A552E22(BLU)	21A3P1	2	SPLICE		X	X		
A552E22(WHT)	21A3P1	1	SPLICE		X			
A552F22(BLU)	21J1	K	SPLICE		X			
A552F22(WHT)	21J1	J	SPLICE		X			
A552G22(BLU)	21P1	K	SPLICE		X	X		
A552G22(WHT)	21P1	J	SPLICE		X	X		
A552H22(BLU)	21A4P1	2	SPLICE		X	X		
A552H22(WHT)	21A4P1	1	SPLICE		X	X		
A552J22(BLU)	21A5P1	2	SPLICE		X	X		
A552J22(WHT)	21A5P1	1	SPLICE		X	X		
A553A22	21A1P1	56	21J2	R	X			
A553A22	22A3J1	K	17S4	1			X	
A553B22	21A2P1	37	21P2	R	X	X		
A553B22	24A4P311	EE	22A3P1	K			X	
A554A22	21A1P1	57	21J2	S	X			
A554A22	22A3J1	C	17R2	3			X	
A554B22	21A3P1	37	21P2	S	X	X		
A554B22	24A4P311	HH	22A3P1	C			X	
A555A22	21A1P1	58	21J1	R	X			
A555A22	17A1P1	E	22A3P1	I			X	
A555B22	21A5P1	37	21P1	R	X	X		
A555B22	22A3J1	I	17S3	4			X	
A556A22	21A1P1	59	21J1	S	X			
A556B22	21A4P1	37	21P1	S	X	X		
A557A20	22A2J1	J	21S6	1	X	X		
A557A20	22A3J1	N	17S5	2			X	
A557B20	22A2P1	J	19TB4	F14	X	X		
A557B20	17A1P1	E	22A3P1	N			X	
A557C20	22A3J1	U	21S8	1	X	X		
A557D20	19TB4	G14	22A3P1	U	X	X		
A557E20	21A1P1	100	19TB4	H14	X			
A557E20	21A12P1	100	19TB4	H14		X		
A558A20	22A3J1	A	19S16	2			X	
A558A22	21A1P1	71	SPLICE		X			
A558A22	21A12P1	68	SPLICE			X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A558B20	21J2	V	SPLICE	A	X	X	X	
A558B20	24A4P311	F	22A3P1					
A558C20	21P2	V	SPLICE		X	X		
A558E22	21A3P1	19	SPLICE		X			
A558E22	21A3P1	18	SPLICE			X		
A558F20	21J1	V	SPLICE		X	X		
A558G20	21P1	V	SPLICE		X	X		
A558H22	21A4P1	19	SPLICE		X			
A558H22	21A4P1	18	SPLICE			X		
A558J22	21A5P1	19	SPLICE		X			
A559A22	21A1P1	68	SPLICE	M	X			
A559A22	21A12P1	71	GND			X		
A559B20	SPLICE		21J2		X			
A559C20	21P2	M	SPLICE		X			
A559D22	21A2P1	18	SPLICE		X			
A559E22	21A3P1	18	SPLICE		X			
A559F20	21J1	M	SPLICE		X			
A559G20	21P1	M	SPLICE		X			
A559H22	21A4P1	18	SPLICE		X			
A559J22	21A5P1	18	SPLICE		X			
A560A22	21A2P2	52	21A6P1	A	X	X		
A561A22	21A6P1	B	21A2P2	13	X	X		
A562A22	121A2P2	17	21A6P1	C	X	X		
A563A22	21A2P2	33	21A6P1	D	X	X		
A564A22	21A2P2	12	21A6P1	E	X	X		
A565A22	21A2P2	18	21A6P1	F	X	X		
A566A22	21A2P2	10	21A6P1	G	X	X		
A567A22	21A2P2	35	21A6P1	H	X	X		
A568A22	21A2P2	29	21A6P1	J	X	X		
A569A22	21A2P2	14	21A6P1	K	X	X		
A569A22	17P1	1	24A4P311	W				
A570A22	21A2P2	16	21A6P1	L	X	X		
A570A22	17P1	2	24A4P311	G				
A571A22	21A2P2	31	21A6P1	M	X	X		
A571A22	17P1	3	24A4P311	M				
A572A22	21A2P2	11	21A6P1	N	X	X		
A572A22	17P1	4	SPLICE					
A572B22	24A4P311	H	SPLICE					
A572C22	19XK84	C1	SPLICE					
A573A22	21A2P2	30	21A6P1	P	X	X		
A573A22	19XK84	X2	17P1	6				
A574A22	21A2P2	36	21A6P1	R	X	X		
A574A22N	17P2	5	GND					
A575A22	21A2P2	32	21A6P1	S	X	X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A576A22	21A2P2	15	21A6P1	T	X	X		
A576A22	22A2J1	<u>D</u>	17S1	1			X	
A576B22	22A2P1	<u>D</u>	24A4P311	FF			X	
A577A22	21A2P2	34	21A6P1	U	X	X		
A577A22	22A2J1	<u>E</u>	17S2	4			X	
A577B20	22A2P1	<u>E</u>	17A1P1	<u>D</u>			X	
A578A22	21A2P2	28	21A6P1	V	X	X		
A579A22	21A2P2	82	21A6P1	W	X	X		
A579A22	22A2J1	<u>E</u>	17R1	3			X	
A579B22	22A2P1	<u>E</u>	24A4P311	<u>X</u>			X	
A580A22	17P2	1	24A4P311	GG			X	
A580A22(BLU)	21A2P2	80	21A6P1	Y	X	X		
A580A22(WHT)	21A2P2	81	21A6P1	X	X	X		
A581A16N	21A6P1	Z	GND		X	X		
A581A22	17P2	2	24A4P311	<u>Y</u>			X	
A582A22	17P2	3	24A4P311	<u>I</u>			X	
A582A22N	21A2P2	88	GND		X	X		
A583A22	17P2	4	SPLICE				X	
A583A22N	END CAP		GND		X	X		
A583B22	24A4P311	N	SPLICE				X	
A583C22	19XK83	B1	SPLICE				X	
A584A22	17P2	6	19XK83	X2			X	
A585A22	21A2P2	44	21A6P2	A	X	X		
A585A22	19A1J1	<u>E</u>	24A4P311	P			X	
A586A22	21A2P2	4	21A6P2	B	X	X		
A586A22	19A1J1	<u>G</u>	24A4P311	<u>R</u>			X	
A587A22	21A2P2	8	21A6P2	<u>C</u>	X	X		
A588A22	21A2P2	24	21A6P2	D	X	X		
A589A22	21A2P2	3	21A6P2	E	X	X		
A590A22	21A2P2	9	21A6P2	F	X	X		
A590A22(BLU)	3T1P1	S	SPLICE				X	
A590A22(WHT)	3T1P1	V	19A12P1	A			X	
A591A20N	19XK90	X2	GND				X	
A591A22	21A2P2	1	21A6P2	G	X	X		
A592A22	21A2P2	26	21A6P2	H	X	X		
A593A22	21A2P2	20	21A6P2	J	X	X		
A594A22	21A2P2	5	21A6P2	K	X	X		
A595A22	21A2P2	7	21A6P2	L	X	X		
A596A22	21A2P2	22	21A6P2	M	X	X		
A597A22	21A2P2	2	21A6P2	N	X	X		
A598A22	21A2P2	21	21A6P2	P	X	X		
A599A22	21A2P2	27	21A6P2	R	X	X		
A600A22	21A2P2	23	21A6P2	S	X	X		
A601A22	21A2P2	6	21A6P2	T	X	X		
A601A22	19XK92	F2	19XK59	F1			X	
A602A22	21A2P2	25	21A6P2	U	X	X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A602A22	19XK92	E2	19XK59	E1			x	
A603A22	21A2P2	19	21A6P2	V	x	x		
A603A22	19XK92	D2	19XK59	D1			x	
A604A22	21A2P2	62	21A6P2	W	x	x		
A604A22	19XK92	C2	19XK59	C1			x	
A605A22	21A2P2	65	21A6P2	X	x			
A605A22	21A6P2	x	21A2P2	63		x		
A605A22	19XK92	F3	19TB5	C5			x	
A606A22	19XK92	F1	19TB5	B5			x	
A606A22N	21A6P2	Y	GND		x	x		
A607A22	19XK92	E3	19TB5	H5			x	
A607A22N	21A6P2	Z	GND		x	x		
A608A22	19XK92	E1	19TB5	G5			x	
A608A22N	21A2P2	70	GND		x	x		
A609A22	19XK92	D3	19TB5	C6			x	
A609A22N	21A2P2	87	GND		x	x		
A610A22	19XK92	D1	19TB5	B6			x	
A610A22N	21A2P2	65	GND		x	x		
A611A22	21A3P2	52	21A7P1	A	x	x		
A611A22	19XK92	C3	19TB5	H6			x	
A612A22	21A3P2	13	21A7P1	B	x			
A612A22	21A7P1	B	21A3P2	15		x		
A612A22	19XK92	C1	19TB5	G6			x	
A613A22	21A3P2	17	21A7P1	C	x	x		
A613A22	19XK92	B3	19TB5	E7			x	
A614A22	21A3P2	33	21A7P1	D	x	x		
A614A22	19XK92	B1	19TB5	B4			x	
A615A22	21A3P2	12	21A7P1	E	x	x		
A615A22	19XK92	A3	19TB5	H4			x	
A616A22	21A3P2	18	21A7P1	F	x	x		
A616A22	19XK92	A1	19TB5	F7			x	
A617A22	21A3P2	10	21A7P1	G	x	x		
A617A22	8TB7	D2	19XK92	X1			x	
A618A22	21A3P2	35	21A7P1	H	x	x		
A618A22N	19XK92	X2	GND				x	
A619A22	21A3P2	29	21A7P1	J	x	x		
A620A22	21A3P2	14	21A7P1	K	x	x		
A621A22	21A3P2	16	21A7P1	L	x	x		
A622A22	21A3P2	31	21A7P1	M	x	x		
A623A22	21A3P2	11	21A7P1	N	x	x		
A624A22	21A3P2	30	21A7P1	P	x			
A624A22	21A7P1	P	21A3P1	30		x		
A625A22	21A3P2	36	21A7P1	R	x			
A625A22	21A7P1	R	21A3P2	36		x		
A626A22	21A3P2	32	21A7P1	S	x	x		
A627A22	21A3P2	15	21A7P1	T	x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A628A22	21A3P2	34	21A7P1	U	X	X		
A629A22	21A3P2	28	21A7P1	V	X	X		
A636E22	21A3P1	16	SPLICE	X	X			
A700A22	21A8P2	F	21A4P2	9	X	X		
A701A22	21A8P2	G	21A4P2	1	X	X		
A702A22	21A8P2	H	21A4P2	26	X	X		
A703A22	21A8P2	J	21A4P2	20	X	X		
A704A22	21A8P2	K	21A4P2	5	X	X		
A705A22	21A8P2	L	21A4P2	7	X	X		
A706A22	21A8P2	M	21A4P2	22	X	X		
A707A22	21A8P2	N	21A4P2	2	X	X		
A708A22	21A8P2	P	21A4P2	21	X	X		
A709A22	21A8P2	R	21A4P2	27	X	X		
A710A22	21A8P2	S	21A4P2	23	X	X		
A711A22	21A8P2	T	21A4P2	6	X	X		
A712A22	21A8P2	u	21A4P2	25	X	X		
A713A22	21A8P2	V	21A4P2	19	X	X		
A714A22	21A8P2	W	21A4P2	62	X	X		
A715A22	21A8P2	X	21A4P2	63	X	X		
A716A22N	21A8P2	Y	GND		X	X		
A717A22N	21A8P2	Z	GND		X	X		
A718A22N	21A4P2	65	GND		X	X		
A719A22N	21A4P2	87	GND		X	X		
A720A22N	21A4P2	70	GND		X	X		
A725A22	21A9P1	A	21A5P2	52	X	X		
A726A22	21A9P1	B	21A5P2	13	X	X		
A727A22	21A9P1	C	21A5P2	17	X	X		
A728A22	21A9P1	D	21A5P2	33	X	X		
A729A22	21A9P1	E	21A5P2	12	X	X		
A730A22	21A9P1	F	21A5P2	18	X	X		
A731A22	21A9P1	G	21A5P2	10	X	X		
A732A22	21A9P1	H	21A5P2	35	X	X		
A733A22	21A9P1	J	21A5P2	29	X	X		
A734A22	21A9P1	K	21A5P2	14	X	X		
A735A22	21A9P1	L	21A5P2	16	X	X		
A736A22	21A9P1	M	21A5P2	31	X	X		
A737A22	21A9P1	N	21A5P2	11	X	X		
A738A22	21A9P1	P	21A5P2	30	X	X		
A739A22	21A9P1	R	21A5P2	36	X	X		
A740A22	21A9P1	S	21A5P2	32	X	X		
A741A22	21A9P1	T	21A5P2	15	X	X		
A742A22	21A9P1	U	21A5P2	34	X	X		
A743A22	21A9P1	V	21A5P2	28	X	X		
A744A22	21A9P1	W	21A5P2	82	X	X		
A745A22(BLU)	21A9P1	Y	21A5P2	80	X	X		
A745A22(WHT)	21A9P1	X	21A5P2	81	X	X		
A746A16N	21A9P1	Z	GND		X	X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A747A22N	21A5P2	88	GND		X	X		
A748A22N	GND		END CAP		X	X		
A750A22	21A9P2	4	21A5P2	44	X	X		
A751A22	21A9P2	B	21A5P2	4	X	X		
A752A22	21A9P2	C	21A5P2	8	X	X		
A753A22	21A9P2	D	21A5P2	24	X	X		
A754A22	21A9P2	E	21A5P2	3	X	X		
A755A22	21A9P2	F	21A5P2	9	X	X		
A756A22	21A9P2	G	21A5P2	1	X	X		
A757A22	21A9P2	H	21A5P2	26	X	X		
A758A22	21A9P2	J	21A5P2	20	X	X		
A759A22	21A9P2	K	21A5P2	5	X	X		
A760A22	21A9P2	L	21A5P2	7	X	X		
A761A22	21A9P2	M	21A5P2	22	X	X		
A762A22	21A9P2	N	21A5P2	2	X	X		
A763A22	21A9P2	P	21A5P2	21	X	X		
A764A22	21A9P2	R	21A5P2	27	X	X		
A765A22	21A9P2	S	21A5P2	23	X	X		
A766A22	21A9P2	T	21A5P2	6	X	X		
A767A22	21A9P2	U	21A5P2	25	X	X		
A768A22	21A9P2	V	21A5P2	19	X	X		
A769A22	21A9P2	W	21A5P2	62	X	X		
A770A22	21A9P2	X	21A5P2	63	X	X		
A771A22N	21A9P2	Y	GND		X	X		
A772A22N	21A9P2	Z	GND		X	X		
A773A22N	21A5P2	65	GND		X	X		
A774A22N	21A5P2	87	GND		X	X		
A775A22A	21A5P2	70	GND			X		
A775A22N	21A5P2	70	GND		X			
A780A20N	END CAP		GND		X	X		
A780B22	21A1P1	91	END CAP		X			
A780B22	21A12P1	91	END CAP			X		
A781A22	21A2P1	28	SPLICE		X	X		
A781A22N	21A12P1	92	GND			X		
A781B22	21A2P1	29	SPLICE		X	X		
A781C22	21A2P1	71	SPLICE		X	X		
A782A22	21A4P1	29	21A4P1	71	X	X		
A783A22	21A3P1	28	21A3P1	71	X	X		
A796A20	19TB4	F	19XK86	B1			X	
A829A20N	21K1	X2	GND		X	X		
A840A22	19TB4	J	19XK59	X1			X	
A868A20	19S13	3	19s13	5			X	
A950A22	19A6	6	19TB6	D1	X	X		
A951A22	19A6	7	19TB6	F1	X			
A952A22	19A6	4	19TB6	F2	X	X		
A957A20	24A4P311	AA	24A4P311	BB			X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN				
A966A20	19XK80	A3	22A2P1	X			X	
A966B20	22A2J1	X	19S13	2			X	
A967A20	19XK80	B3	22A2P1	Y			X	
A967B20	22A2J1	Y	19S13	8			X	
A967C20	19S13	8	19S13	11			X	
A968B20	22A2J1	Z	19S13	3			X	
A968C22	SPLICE		22A2P1	Z			X	
A968D22	19TB4	4	SPLICE				X	
A968E22	22A3P1	<u>D</u>	SPLICE				X	
A968F22	SPLICE		24A4P311	E			X	
A969A20	22A2J1	<u>B</u>	19S13	10			X	
A969B20	22A2P1	<u>B</u>	SPLICE				X	
A969C20	19XK80	D3	SPLICE				X	
A969D20	SPLICE		SPLICE				X	
A969E20	19XK86	B2	SPLICE				X	
A969F20	19XK87	B2	SPLICE				X	
A970A20	22A2J1	<u>A</u>	19S13	1			X	
A970B20	SPLICE		22A2P1	<u>A</u>			X	
A970C20	SPLICE		19XK86	A2			X	
A976C20	4A3J1	S	19TB3	9			X	
A976D20	19TB3	9	19XK85	A3			X	
A982A20	19S7	1	22A3J1	<u>C</u>			X	
A982B20	22A3P1	<u>C</u>	SPLICE				X	
A982C20	19XK80	X1	SPLICE				X	
A982D20	19XK90	X1	SPLICE				X	
A984A20N	19XK80	X2	GND				X	
A986B22	19M2	1	22A3J1	P			X	
A986G22	19DS3	2	22A3J1	<u>D</u>			X	
A987B22	19M1	1	22A3J1	D			X	
A997A22N	19M1	2	GND				X	
A998A22N	19M2	2	GND				X	
A999A22N	19DS3	1	GND				X	
A1000A22	16TB1	E2	16A1P2	65		X		
A1001A22	20A1J53	A	20A1J66	F		X		
A1002A22	20A1J53	B	20A1J66	M		X		
A1003A22	20A1J53	C	20A1J66	L		X		
A1004A22	20A1J53	D	20A1J66	K		X		
A1005A22	20A1J53	U	20A1J66	J		X		
A1006A22	20A1J53	V	20A1J66	H		X		
A1007A22	20A1J53	W	20A1J66	P		X		
A1008A22	20A1J53	X	20A1J66	S		X		
A1009A22	20A1J53	Y	20A1J66	D		X		
A1010A22	20A1J53	S	20A1J66	C		X		
41011A22	20A1J53	T	20A1J66	B		X		
41012A22	20A1J53	<u>N</u>	20A1J66	A		X		
41013A22	20A1J09	T	20A1J53	DD		X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN				
A1014A22	20A1J53	Z	SPLICE			x		
A1014B22	20A1J09	R	8TB8	D5		x		
A1014B22	20A1J09	R	SPLICE			x		
A1014C22	8TB8	D5	SPLICE			x		
A1015A22	20A1J53	AA	SPLICE			x		
A1015B22	20A1J09	N	8TB8	B4		x		
A1015B22	20A1J09	N	SPLICE			x		
A1015C22	8TB8	B4	SPLICE			x		
A1015C22#	8TB8	B6	SPLICE			x		
A1016A22	20A1J53	P	5A1P1	E		x		
A1016B22	5A1J1	E	16S2	2		x		
A1017A22(BLU)	20A1J53	V	5A1P1	A		x		
A1017A22(WHT)	20A1J53	D	5A1P1	W		x		
A1017B22(BLU)	5A1J1	A	SPLICE			x		
A1017B22(WHT)	5A1J1	W	16S1	1		x		
A1017C22	16R1	1	SPLICE			x		
A1017D22	16S1	2	SPLICE			x		
A1018A22	20A1J3	H	5A1P1	P		x		
A1018A22N	END CAP		GND			x		
A1018B22	16R1	2	5A1J1	P		x		
A1018C22	16R1	2	16R1	3		x		
A1020A22N	20A1J53	FF	GND			x		
A1021A22	16TB1	K3	20A1J53	H		x		
A1023A22	20A7P02	K	20A1J53	I		x		
A1024A22(BLU)	20A1J53	Y	20A7P01	W		x		
A1024A22(WHT)	20A7P01	V	20A1J53	X		x		
A1025A22(BLU)	16TB1	J4	20A1J53	R		x		
A1025A22(WHT)	16TB1	B5	20A1J53	Q		x		
A1026A22(BLU)	16A2P1	J	20A1J53	B		x		
A1026A22(WHT)	16A2P1	K	20A1J53	S		x		
A1027A22(BLU)	16A1P2	30	20A1J53	CC		x		
A1027A22(WHT)	16A1P2	28	20A1J53	HH		x		
A1028A16	16CB6		3A1P2	W		x		
A1028B16	3A1J2	W	SPLICE			x		
A1028C20	20A1J53	G	SPLICE			x		
A1028D20	20A1J53	M	SPLICE			x		
A1028E20	20A1J53	L	SPLICE			x		
A1029A20N	20A1J53	E	GND			x		
A1030A20N	20A1J53	K	GND			x		
A1031A20N	20A1J53	E	GND			x		
A1032A22	16A1P2	15	5A1P1	E		x		
A1032B22	5A1J1	E	16S2	3		x		
A1033A22	SPLICE		19TB4	K5		x		
A1033B22	22A2P1	C	SPLICE			x		
A1033C22	SPLICE		5A1P1	D		x		
A1033D22	5A1J1	D	16S2	1		x		
A1022A22(WHT)	20A1J53	J	20A2P05	Q		x		
A1022A22(BLU)	20A1J53	P	20A2P05	R		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
A1033E22	22A2J1	C	21S6	5		X		
A1034A22	22A3P1	<u>E</u>	16A1P2	67		X		
A1035A22	22A3P1	A	16A1P2	68		X		
A1036A22	20A4P02	KK	20A1J53	F		X		
A1037A22	20A1J53	A	20A4P02	LL		X		
A1038A22	20A1J53	<u>EE</u>	20A4P02	U		X		
A1039A22	20A4P02	<u>N</u>	20A1J53	C		X		
A1040A22	20A4P02	<u>M</u>	20A1J53	<u>U</u>		X		
A1040A22 #	SPLICE		20A1J53	<u>U</u>		X		
A1041A22	20A4P02	<u>W</u>	20A1J53	R		X		
A1042A22	20A4P01	L	22A5P1	23		X		
A1043A22(BLU)	18A1P1	50	18A2P1	2		X		
A1043A22(WHT)	18A1P1	49	18A2P1	1		X		
A1044A22(BLU)	18A1P1	31	18A2P1	4		X		
A1044A22(ORN)	18A1P1	39	18A2P1	16		X		
A1044A22(WHT)	18A1P1	30	18A2P1	3		X		
A1045A22(BLU)	18A1P1	33	18A2P1	5		X		
A1045A22(ORN)	18A1P1	41	18A2P1	17		X		
A1045A22(WHT)	18A1P1	32	18A2P1	6		X		
A1046A22	18A1P1	38	18A2P1	7		X		
A1047A22	18A1P1	29	18A2P1	14		X		
A1048A22(BLU)	18A1P1	10	18A2P1	15		X		
A1048A22(WHT)	18A1P1	4	18A2P1	22		X		
A1049A22	18CB2		3A1P2	Y		X		
A1049B22	3A1J2	Y	10A1J1	X		X		
A1049C22	10S1	5	10AP1	X		X		
A1050A22N	18A2P1	8	SPLICE			X		
A1050B22N	18A2P1	9	SPLICE			X		
A1050C22N	18A2P1	19	SPLICE			X		
A1050D22N	SPLICE		GND			X		
A1051A22	18A3P1	D	8TB4	F12		X		
A1051A22 *	18A3P1	D	SPLICE			X		
A1052A22N	18A3P1	C	END CAP			X		
A1053A22	18AP1	27	18A3P1	A		X		
A1054A22	18A1P1	64	18A3P1	L		X		
A1055A22	18A1P1	37	18A3P1	B		X		
A1056A22	18A1P1	28	18A3P1	M		X		
A1057A22	18A1P1	60	18A3P1	K		X		
A1058A22(BLU)	18A1P1	23	18A3P1	J		X		
A1058A22(WHT)	18A1P1	16	18A3P1	H		X		
A1059A22(BLU)	18A1P1	9	18A3P1	G		X		
A1059A22(WHT)	18A1P1	8	18A3P1	F		X		
A1060A22(BLU)	3400TB1	J10	16A1P3	43		X		
A1060A22(ORN)	3400TB1	K11	16A1P3	44		X		
A1060A22(WHT)	16A1P3	45	3400TB1	D10		X		
A1061A22	16A3P2	5	8TB4	K12		X		
A1062A22N	16A3P2	1	GND			X		
A1063A22	16A3P2	2	8TB4	E4		X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	E	M	P	
A1064A22N	END CAP		GND			X		
A1065A22N	16A3P1	10	GND			X		
A1066A20	16A4P2	17	16A3P1	1		X		
A1067A22	16A4P2	15	16A3P1	2		X		
A1068A22	16A4P2	9	16A3P1	3		X		
A1069A22	16A4P2	1	16A3P1	4		X		
A1070A22	16A4P2	21	16A3P1	5		X		
A1071A22	16A4P2	30	16A3P1	11		X		
A1072A22	16A4P2	23	16A3P1	12		X		
A1073A22	16A4P2	22	16A3P1	15		X		
A1074A22	16A4P2	36	16A3P1	14		X		
A1075A22	16A4P2	37	16A3P1	13		X		
A1076A22	16A4P2	38	16A3P1	18		X		
A1077A22	16A4P2	35	16A3P1	17		X		
A1078A22	16A4P2	31	16A3P1	16		X		
A1079A22	16A4P2	32	16A3P1	21		X		
A1080A22	16A4P2	33	16A3P1	20		X		
A1081A22	16A4P2	29	16A3P1	19		X		
A1082A20	16A3P1	31	16A4P2	39		X		
A1083A22	16A4P2	25	16A3P1	6		X		
A1084A22	16A4P2	24	16A3P1	7		X		
A1085A22	16A4P2	26	16A3P1	8		X		
A1086A22	16A4P2	6	16A3P1	9		X		
A1087A22(BLU)	18A1P1	5	3408DS1P2	10		X		
A1087A22(WHT)	18A1P1	1	3408DS1P2	12		X		
A1088A22(BLU)	16A1P3	30	3408DS1P2	11		X		
A1088A22(WHT)	16A1P3	29	3408DS1P2	2		X		
A1089A22	16XK6	20	SPLICE			X		
A1090A22	16XK7	20	SPLICE			X		
A1091A22(BLU)	18A1P1	55	2300TB1	K7		X		
A41091A22(WHT)	18A1P1	54	SPLICE			X		
A1092A22N	END CAP		GND			X		
A1093A22	22A2J1	H	21S6	6		X		
A1093B22	22A2P1	H	16A1P2	59		X		
A1094A22	22A2121	M	16A1P2	69		X		
A1095A22	22A2P1	N	16A1P2	70		X		
A1096A22	21A12P1	89	16TB1	G2		X		
A1097A22(BLU)	21A12P1	72	16A1P2	29		X		
A1097A22(WHT)	21A12P1	73	16A1P2	27		X		
A1098A22(BLU)	16A1P3	20	1M4P1	M		X		
A1098A22(WHT)	16A1P3	19	1M4P1	L		X		
A1099A22N	END CAP		GND			X		
A1100A22	22A3P1	F	22A5P1	73		X		
A1101A22	22A5P1	72	22A5P1	24		X		
A1102A22	19TB4	E9	22A5P1	18	X			
A1102A22	19TB4	E9	SPLICE			X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	E	M	P	
A1102B22	22A5P1	18	SPLICE			X		
A1102C22	20A1J53	<u>M</u>	SPLICE			X		
A1103A22N	22A5P1	17	GND			X		
A1104A22N	22A5P1	4	GND			X		
A1108A22N	22A5P1	12	GND			X		
A1112A22N	22A5P1	1	GND			X		
A1113A22N	22A5P1	9	GND			X		
A1114A22	16A2P1	P	22A5P1	10		X		
A1115A22	16TB1	J2	22A5P1	2		X		
A1116A22	16DS1P1	EE	1TB10	E6		X		
A1117A22	16DS1P1	W	8TB4	G12		X		
A1117A22 *	16DS1P1	W	8TB4	G1		X		
A1118A22N	16DS1P1	<u>S</u>	GND			X		
A1119A22N	16DS1P1	G	GND			X		
A1120A22(BLU)	16DS1P1	<u>C</u>	16A2P2	<u>C</u>		X		
A1120A22(WHT)	16DS1P1	<u>B</u>	16A2P2	<u>B</u>		X		
A1121A22(BLU)	16DS1P1	<u>D</u>	16A2P2	<u>D</u>		X		
A1121A22(WHT)	16DS1P1	B	16A2P2	B		X		
A1122A22(BLU)	16DS1P1	Y	16A2P2	Y		X		
A1122A22(ORN)	16DS1P1	X	16A2P2	X		X		
A1122A22(WHT)	16DS1P1	<u>U</u>	16A2P2	<u>U</u>		X		
A1123A22(BLU)	16DS1P1	E	16A2P2	E		X		
A1123A22(ORN)	16DS1P1	<u>E</u>	16A2P2	<u>F</u>		X		
A1123A22(WHT)	16DS1P1	D	16A2P2	D		X		
A1124A22(BLU)	16DS1P1	NN	16A2P2	NN		X		
A1124A22(ORN)	16DS1P1	FF	16A2P2	FF		X		
A1124A22(WHT)	16DS1P1	HH	16A2P2	HH		X		
A1125A22(BLU)	16DS1P1	K	16A2P2	K		X		
A1125A22(WHT)	16DS1P1	J	16A2P2	J		X		
A1126A22(BLU)	16DS1P1	P	16A2P2	P		X		
A1126A22(WHT)	16DS1P1	R	16A2P2	R		X		
A1127A22(BLU)	16DS1P1	<u>M</u>	16A2P2	<u>M</u>		X		
A1127A22(WHT)	16DS1P1	<u>J</u>	16A2P2	<u>J</u>		X		
A1128A22(BLU)	16DS1P1	<u>Q</u>	16A2P2	<u>Q</u>		X		
A1128A22(WHT)	16DS1P1	<u>P</u>	16A2P2	<u>P</u>		X		
A1129A22(BLU)	16DS1P1	<u>V</u>	16A2P2	<u>V</u>		X		
A1129A22(WHT)	16DS1P1	Z	16A2P2	Z		X		
A1130A22(BLU)	16DS1P1	AA	16A2P2	AA		X		
A1130A22(ORN)	16DS1P1	LL	16A2P2	LL		X		
A1130A22(WHT)	16DS1P1	CC	16A2P2	CC		X		
A1131A22(BLU)	16DS1P1	<u>G</u>	16A2P2	<u>G</u>		X		
A1131A22(ORN)	16DS1P1	<u>Y</u>	16A2P2	<u>Y</u>		X		
A1131A22(WHT)	16DS1P1	H	16A2P2	<u>H</u>		X		
A1132A22(BLU)	16DS1P1	MM	16A2P2	MM		X		
A1132A22(WHT)	16DS1P1	KK	16A2P2	KK		X		
A1133A22N	16A2P2	G	END CAP			X		
A1135A22	16CB1		3A1P2	S		X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	E	M	P	
A1135B22(WHT)	3A1J2	S	16A2P1	A		x		
A1135B22N(BLU)	END CAP		16A2P1	W		x		
A1136A22	16CB2		3A1P2	T		x		
A1136B22(WHT)	3A1J2	T	16A4P1	7		x		
A1136B22N(BLU)	16A4P1	8	END CAP			x		
A1137A20	16CB5		3A1P2	P		x		
A1137B20(WHT)	16A4P1	5	3A1J2	P		x		
A1137B20N(BLU)	16A4P1	6	END CAP			x		
A1138A20	16CB4		3A1 P2	U		x		
A1138B20(WHT)	3A1J2	U	SPLICE			x		
A1138B20N(BLU)	END CAP		SPLICE			x		
A1138C20	16A2P1	T	SPLICE			x		
A1138D20	16A2P1	U	SPLICE			x		
A1138E22	SPLICE		SPLICE			x		
A1138F22	16XK7	19	SPLICE			x		
A1138G22	16XK6	19	SPLICE			x		
A1139C20N	16A2P1	R	SPLICE			x		
A1139D20N	16A2P1	M	SPLICE			x		
A1140A20	16CB3		3A1P2	Y		x		
A1140B20	3A1J2	V	16A1P1	A		x		
A1141A22	18CB1		3A1P2	X		x		
A1141B22	SPLICE		3A1J2	X		x		
A1141C22	18A1P1	26	SPLICE			x		
A1141D22	18A1P1	25	SPLICE			x		
A1141E22	18A1P1	17	SPLICE			x		
A1142D22	18A1P1	25	SPLICE			x		
A1143A22	18A1P1	51	16A1P2	35		x		
A1144A22(BLU)	18A1P1	65	16A1P2	49		x		
A1144A22(WHT)	18A1P1	61	16A1P2	25		x		
A1145A22(BLU)	18A1P1	53	16A1P2	47		x		
A1145A22(WHT)	18A1P1	46	16A1P2	23		x		
A1146A22(BLU)	18A1P1	48	16A1P2	48		x		
A1146A22(WHT)	18A1P1	47	16A1P2	24		x		
A1147A22(BLU)	18A1P1	62	16A1P2	46		x		
A1147A22(WHT)	18A1P1	56	16A1P2	22		x		
A1149A22N	18A1P1	36	END CAP			x		
A1150A22N	18A1P1	34	END CAP			x		
A1150B22N	18A1P1	35	END CAP			x		
A1150C22N	18A1P1	43	END CAP			x		
A1152A22	22A4P15	G	16A1P2	33		x		
A1153A22	22A4P15	F	16A1P2	32		x		
A1154A22	16TB1	J8	22A4P15	E		x		
A1155A22	22A4P15	T	16A1P2	61		x		
A1156A22	22A4P15	U	16A1P2	60		x		
A1157A22	22A4P15	S	16A1P2	62		x		
A1158A22	22A4P15	J	16TB1	K2		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	E	M	P	
A1161A22(BLU)	16A5P1	20	22A4P14	Y		X		
A1161A22(WHT)	16A5P1	21	22A4P14	Z		X		
A1162A22(BLU)	16A5P1	2	22A4P14	A		X		
A1162A22(WHT)	16A5P1	1	22A4P14	B		X		
A1163A22(BLU)	16A5P1	35	22A4P14	C		X		
A1163A22(WHT)	16A5P1	33	22A4P114	D		X		
A1164A22(BLU)	22A4P14	K	16K8-B1	2		X		
A1164A22(WHT)	22A4P14	L	16K8-A1	1		X		
A1165A22(BLU)	22A4P14	N	16A1P3	4		X		
A1165A22(WHT)	22A4P14	M	16A1P3	3		X		
A1166A22(BLU)	22A4P14	R	16A1P3	6		X		
A1166A22(WHT)	22A4P14	P	16A1P3	5		X		
A1170A22(BLU)	16A1P3	32	3TB2	B5		X		
A1170A22(WHT)	16A1P3	31	3TB2	D4		X		
A1171B22(BLU)	16A1P3	36	SPLICE			X		
A1171B22(WHT)	16A1P3	35	SPLICE			X		
A1171C22(BLU)	16A1P3	15	SPLICE			X		
A1171C22(WHT)	16A1P3	7	SPLICE			X		
A1172B22(BLU)	16A1P3	38	SPLICE			X		
A1172B22(WHT)	16A1P3	37	SPLICE			X		
A1172C22(BLU)	16A1P3	9	SPLICE			X		
A1172C22(WHT)	16A1P3	8	SPLICE			X		
A1173B22(BLU)	16A1P3	40	SPLICE			X		
A11731322(WHT)	16A1P3	39	SPLICE			X		
A1173C22(BLU)	16A2P3	11	SPLICE			X		
A1173C22(WHT)	16A1P3	10	SPLICE			X		
A1174A22(BLU)	22A4P13	K	16A5P1	12		X		
A1174A22(WHT)	16A5P1	16	22A4P13	L		X		
A1175A22(BLU)	22A4P13	M	16A5P1	10		X		
A1175A22(WHT)	16A5P1	14	22A4P13	N		X		
A1176A22(BLU)	22A4P13	W	16A1P3	68		X		
A1176A22(WHT)	22A4P13	X	16A1P3	67		X		
A1177A22(BLU)	22A4P13	Z	16A1P3	71		X		
A1177A22(WHT)	22A4P13	Y	16A1P3	70		X		
A1178A22(BLU)	22A4P13	AA	16A1P3	74		X		
A1178A22(WHT)	22A4P13	BB	16A1P3	73		X		
A1179A22(BLU)	22A4P13	I	16A1P3	81		X		
A1179A22(WHT)	22A4P13	J	16A1P3	80		X		
A1180A22(BLU)	22A4P13	M	16A1P3	84		X		
A1180A22(WHT)	22A4P13	K	16A1P3	83		X		
A1181A22(BLU)	22A4P13	P	16A1P3	87		X		
A1181A22(WHT)	22A4P13	N	16A1P3	86		X		
A1182A22(BLU)	16A1P3	47	SPLICE			X		
A1182A22(WHT)	16A1P3	46	16A9P1	B		X		
A1182B22	16A9P1	C	SPLICE			X		
A1183A22(BLU)	22A4P15	A	SPLICE			X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
A1183A22(WHT)	16A9P1	A	22A4P15	B		x		
A1184A22N	END CAP		GND			x		
A1184A22N	18A1P1	24	END CAP			x		
A1185A22N	END CAP		GND			x		
A1186A22	GND		SHIELD			x		
A1187A22(BLU)	16A2P1	D	16A1P2	50		x		
A1187A22(WHT)	16A2P1	G	16A1P2	26		x		
A1188A22	16A1P2	57	16A2P1	I		x		
A1189A22	16TB1	F2	16A2P1	N		x		
A1190A22N	16A2P1	E	END CAP			x		
A1190A22N	16A2P1	E	GND			x		
A1192A22N	16A5P1	31	GND			x		
A1193A22	16TB1	H8	16A5P1	29		x		
A1194A22(BLU)	16A5P1	7	16A4P3	9		x		
A1194A22(WHT)	16A4P3	10	16A5P1	36		x		
A1195A22(BLU)	16A5P1	9	16A4P3	24		x		
A1195A22(WHT)	16A5P1	30	16A4P3	23		x		
A1196A22(BLU)	16A5P1	26	16A4P3	26		x		
A1196A22(WHT)	16A5P1	32	16A4P3	25		x		
A1197A22(BLU)	16A4P3	39	16A5P1	27		x		
A1197A22(WHT)	16A5P1	15	16A4P3	40		x		
A1198A22(BLU)	16A4P3	34	16A5P1	28		x		
A1198A22(WHT)	16A5P1	37	16A4P3	35		x		
A1199A22	16A5P1	6	16A4P3	44		x		
A1200A20(BLU)	16A5P1	13	16A4P3	27		x		
A1200A20(ORN)	16A4P3	12	16A5P1	12		x		
A1200A20(WHT)	16A5P1	14	16A4P3	6		x		
A1201A22(BLU)	16A5P1	11	16A4P3	42		x		
A1201A22(WHT)	16A5P1	15	16A4P3	43		x		
A1202A22(BLU)	16A5P1	9	16A4P3	2		x		
A1202A22(WHT)	16A5P1	10	16A4P3	37		x		
A1203A20(BLU)	16A4P3	7	16A4P1	40		x		
A1203A20(WHT)	16A5P1	45	16A4P3	11		x		
A1204A22	16A4P3	4	16A5P1	46		x		
A1205A22(BLU)	16A5P1	50	16A4P3	8		x		
A1205A22(WHT)	16A5P1	49	16A4P3	3		x		
A1206A22(BLU)	16A5P1	31	16A4P3	31		x		
A1206A22(WHT)	16A5P1	30	16A4P3	41		x		
A1207A22(BLU)	16A4P3	14	16A5P1	32		x		
A1207A22(WHT)	16A5P1	33	16A4P3	17		x		
A1208A20	16A5P1	24	16A4P3	19		x		
A1209A20	16A4P3	20	16A5P1	26		x		
A1210A20	16A4P3	38	16A5P1	8		x		
A1211A22(BLU)	16A5P1	41	16A4P3	29		x		
A1211A22(WHT)	16A5P1	42	16A4P3	36		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	EFFECTIVITY			
					E	M	P	
A1212A22	16A5P1	43	16A4P3	32		x		
A1213A20	16A4P3	2	16A5P1	3		x		
A1214A20	16A4P3	18	16A5P1	2		x		
A1215A22(BLU)	16A4P3	55	16A5P1	18		x		
A1215A22(WHT)	16A5P1	1	16A4P3	54		x		
A1216A20	16A4P3	15	16A5P1	22		x		
A1217A22(BLU)	16A5P1	5	16A4P3	28		x		
A1217A22(WHT)	16A4P3	33	16A5P1	4		x		
A1218A20	16A5P1	21	16A4P3	16		x		
A1219A20	16A5P1	19	16A4P3	5		x		
A1220A20	16A5P1	36	16A4P3	1		x		
A1221A22	16CR4	F3	2CB10	5		x		
A1222A22	16CR4	C3	2CB9	5		x		
A1222A22	2CB9		16TB1	C3		x		
A1223A22N	16TB1	K4	GND			x		
A1225A20N	16A1P1	C	GND			x		
A1226A20N	16A1P1	D	GND			x		
A1228A22	19TB4	K15	16A1P2	64		x		
A1230A22N	16A1P2	8	END CAP			x		
A1231A22N	16A1P2	42	END CAP			x		
A1232A22N	16A1P2	73	END CAP			x		
A1233A22	16TB1	H2	16A1P2	1		x		
A1234A22	16TB1	A5	16A1P2	13		x		
A1236A22	16TB1	C8	16A1P2	31		x		
A1237A22(BLU)	1TB10	C3	16A1P3	18		x		
A1237A22(ORN)	1TB10	H2	16A1P3	17		x		
A1237A22(WHT)	1TB10	H3	16A1P3	16		x		
A1238A22(BLU)	1TB10	H1	16A1P3	24		x		
A1238A22(ORN)	16A1P3	23	1TB10	C1		x		
A1238A22(WHT)	1TB10	C2	16A1P3	14		x		
A1239A22(BLU)	16A1P3	13	16TB1	B8		x		
A1239A22(WHT)	16TB1	H9	16A1P3	12		x		
A1240A22(BLU)	16TB1	A8	16A1P3	42		x		
A1240A22(WHT)	16TB1	C9	16A1P3	41		x		
A1241A22	16A1P3	33	END CAP			x		
A1241A22N	16A1P3	33	GND			x		
A1242A22N	16A1P3	34	END CAP			x		
A1242A22N	16A1P3	34	GND			x		
A1243A22N	16A1P3	60	END CAP			x		
A1243A22N	16A1P3	60	GND			x		
A1244A22N	16A1P3	61	END CAP			x		
A1244A22N	16A1P3	61	GND			x		
A1245A22(WHT)	3TB2	J4	16XK8	B3		x		
A1245A22(BLU)	3TB2	J5	16XK8	A3		x		
A1246A22(WHT)	16A1P3	1	16XK8	B2		x		
A1246A22(BLU)	16A1P3	2	16XK8	A2		x		
A1247A22N	16A5P1	END CAP	GND			x		
A1249A22(BLU)	20A2P05	U	16TB1	G9		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
A1249A22(ORN)	16TB1	F8	20A2P05	EE		X		
A1249A22(ORN) #	16TB1	F8	SPLICE			X		
A1249A22(WHT)	20A2P05	T	16TB 1	A9		X		
A1251A22N	END CAP		GND			X		
A1252A22	16A2P1	Z	16XK6	1		X		
A1253A22N	16XK6	3	GND			X		
A1254A22	16A2P1	Y	16XK7	1		X		
A1255A22N	16XK7	3	GND			X		
A1256A22	10S1	4	10A1P1	Y		X		
A1256B22	10A1J1	Y	SPLICE			X		
A1256C22	18A2P1	12	SPLICE			X		
A1256D22	18A2P1	13	SPLICE			X		
A1256E22	18A2P1	20	SPLICE			X		
A1260A22(BLU)	16A4P1	4	GND			X		
A1260A22(WHT)	16A4P1	1	3A1J1	H		X		
A1260A22(WHT)	SPLICE		16A4P1	4		X		
A1260A22N(BLU)	16A4P1	4	GND			X		
B37-20	22A5K3	A1	22A5J2	37		X		
B38-20	22A5K3	A2	22A5J2	38		X		
B39-20	22A5K3	A3	22A5J2	39		X		
B40-20	22A5K3	B1	22A5J2	40		X		
B41-20	22A5K3	B2	22A5J2	41		X		
B42-20	22A5K3	B3	22A5J2	42		X		
B43-20	22A5K3	C1	22A5J2	43		X		
B44-20	22A5K3	C2	22A5J2	44		X		
B45-20	22A5K3	C3	22A5J2	45		X		
B46-20	22A5K3	D1	22A5J2	46		X		
B47-20	22A5K3	D2	22A5J2	47		X		
B48-20	22A5K3	D3	22A5J2	48		X		
B49-20	22A5K3	E1	22A5J2	49		X		
B50-20	22A5K3	E2	22A5J2	50		X		
B51-20	22A5K5	E3	22A5J2	51		X		
B52-20	22A5K3	F1	22A5J2	52		X		
B53-20	22A5K3	F2	22A5J2	53		X		
B54-20	22A5K3	F3	22A5J2	54		X		
B55-20	22A5XK4	A1	22A5J2	55		X		
B56-20	22A5XK4	A2	22A5J2	56		X		
B57-20	22A5XK4	A3	22A5J2	57		X		
B58-20	22A5XK4	B1	22A5J2	58		X		
B59-20	22A5XK4	B2	22A5J2	59		X		
B60-20	22A5XK4	B3	22A5J2	60		X		
B61-20	22A5XK4	C1	22A5J2	61		X		
B62-10	22A5XK4	C2	22A5J2	62		X		
B63-20	22A5XK4	C3	22A5J2	63		X		
B64-20	22A5XK4	D1	22A5J2	64		X		
B65-20	22A5XK4	D2	22A5J2	65		X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	1	2	3	
B66-20	22A5XK4	D3	22A5J2	66		X		
B67-20	22A5K5	A1	22A5J2	67		X		
B68-20	22A5K5	A2	22A5J2	68		X		
B69-20	22A5K5	A3	22A5J2	69		X		
B70-20	22A5K5	B1	22A5J2	70		X		
B71-20	22A5K5	B2	22A5J2	71		X		
B72-20	22A5K5	B3	22A5J2	72		X		
C2A20	2A1P2	A	1CB2				X	
C2A22	2A1P2	<u>A</u>	1CB2		X	X		
C2B22	2A1J2	<u>A</u>	SPLICE		X	X	X	
C2C22	5A1P1	T	SPLICE		X	X	X	
C2D22	22A1P1	U	SPLICE		X	X	X	
C2E22	22A1J1	U	1S22	2	X	X	X	
C2F22	5A1J1	T	1S23	2	X	X	X	
C3A22	22A1J1	V	1S22	3	X	X	X	
C3B22	22A1P1	V	SPLICE		X	X	X	
C3C22	5A1P1	U	SPLICE		X	X	X	
C3D22	5A1J1	U	1S23	3	X	X	X	
C3E22	SPLICE		SPLICE		X	X	X	
C3F22	1XK5	C1	SPLICE		X	X	X	
C3G22	1S24	S1	SPLICE		X	X	X	
C4A22	22A1J1	W	1S22	1	X	X	X	
C4B22	22A1P1	W	SPLICE		X	X	X	
C4C22	5A1P1	V	SPLICE		X	X	X	
C4D22	SPLICE		SPLICE		X	X	X	
C4E22	1XK5	X1	SPLICE		X	X	X	
C4F22	1XK5	C2	SPLICE		X	X	X	
C4G22	5A1J1	V	1S23	1	X	X	X	
C5A20	9CB1		2A1P2	<u>G</u>	X	X	X	
C5B20	2A1J2	<u>G</u>	4A3J1	P	X	X	X	
C6A20	1A1J1	E	4A3J1	M	X	X	X	
C6B20	1A1P1	E	9S2	2	X		X	
C6B20	1A1P1	V	9S2	3		X		
C7A20	1A1P1	V	9S2	3	X		X	
C7A20	1A1P1	E	9S2	2		X		
C7B20	1A1J1	V	5A2J1	M	X	X	X	
C8A20	5A2J1	P	1TB10	F3	X		X	
C8A20	5A2J1	P	1TB10	F5		X		
E8B20	9L1P1	4	1TB10	G3	X		X	
C8B20	1TB10	G5	9L1P1	A		X		
C8C20	9L2P1	A	1TB10	H3	X		X	
C8C20	1TB10	H5	9L2P1	A		X		
C8D20	9L3P1	A	1TB10	C3	X		X	
E8D20	1TB10	C5	9L3J1	A		X		
C9A20N	9L1P1	B	GND		X	X	X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
C10A20N	9L2P1	B	GND		X	X	X	
G11A20N	9L3P1	B	GND		X	X	X	
C12A20	2A1P2	E	1CB1		X	X	X	
C12B20	1A1J1	F	2A1J2	E	X	X	X	
C12C20	1A1P1	F	1S17	2	X	X	X	
C12D20	2A1P2	E	1CB1		X	X	X	
C12E20	2A1J2	E	1K4	12	X	X	X	
C13A20	1A1P1	G	1S17	3	X	X	X	
C13B20	1A1J1	G	1L1P1	A	X	X	X	
C14A20	1A1P1	W	1S17	1	X	X	X	
C14B20	1L2P1	A	1A1J1	W	X	X	X	
C15A20N	1L1P1	B	GND		X	X	X	
C16A20N	1L2P1	B	GND		X	X	X	
C18A22	1XK5	X2	8TB4	G10	X	X	X	
C25A20	1K4	11	SPLICE		X	X	X	
C25B20	1L3P1	A	SPLICE		X	X	X	
C25C20	1L4P1	A	SPLICE		X	X	X	
C26A20N	1L3P1	B	GND		X	X	X	
C27A20N	1L4P1	B	GND		X	X	X	
C29A8	1K4	A1	1S24	L1	X	X	X	
C30A8	1B2P1	B	1S24	L2	X	X	X	
C31A8N	1B2P1	D	GND		X	X	X	
C33A22	1K4	X1	1S24	S2		X	X	
C38A22N	1S24	S3	GND		X	X	X	
C39A22N	1K4	X2	GND		X	X	X	
C41A20N	1TB10	E3	GND		X			
C41A20N	1TN10	E5	GND			X	X	
C242A22	8TB4	H7	9A2P1	20	X			
C243A22	8TB4	G7	9A2P2	20	X			
C247A22	9TB1	G3	9A2P3	20		X		
C260A22	2XK18		19TB1	17C	X			
C260A22	2XK18	X1	9TB1	17D		X		
C261A22N	2XK18	X2	GND		X	X		
D1A20	1P2	J	1G1P1	A			X	
D1A20N	1P2	J	GND		X	X	X	
D1B22	1J2	J	1TB3	E7	X	X	X	
D1C22	1M3P1	D	1TB3	D7	X	X	X	
D1D22	1M13P1	D	1TB3	J7	X	X	X	
D1E20N	GND		GND			X	X	
D2A20	1P2	K	1G1P1	B	X	X	X	
D2B22	1J2	K	1TB3	E8	X	X	X	
D2C22	1M3P1	C	1TB3	D8	X	X	X	
D2D22	1M13P1	C	1TB3	K8	X	X	X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
D3A22N	1M3P1	F	1TB3	D5	X	X	X	
D4A20	1P2	C	1MT4P1	B	X	X	X	
D4B22	1M6P1	A	1J2	C	X	X	X	
D5A20	1P2	D	1MT4P1	C	X	X	X	
D5B22	1M6P1	B	1J2	D	X	X	X	
D6A22	1M6P1	J	1J2	E	X	X	X	
D6B20	1P2	E	1MT4P1	A	X	X	X	
D7A22	1M6P1	K	1J2	F	X	X	X	
D7B20	1P2	F	1MT4P1	D	X	X	X	
D8A22	2CB5		2A1P2	CC	X	X	X	
D8B22	2A1J2	CC	SPLICE		X	X	X	
D8C22	SPLICE		2M1P1	A	X	X	X	
D8D22	SPLICE		2M1P1	G	X	X	X	
D9A22N	SPLICE		1TB3	G6	X	X	X	
D9B22N	SPLICE		2M1P1	B	X	X		
D9C22N	SPLICE		2M1P1	H	X	X	X	
D10A20	2R1	+ (SHUNT)	2CB1		X	X	X	
D11A20	2R1	- (SHUNT)	2CB2		X	X	X	
D12A22	2CB1		2M1P1	C	X	X	X	
D13A22	2M1P1	D	2CB2		X	X	X	
D14A20	1RT1P1	B	1P2	H	X	X	X	
D14B20	1M6P1	G	1J2	H	X	X	X	
D15A22N	1M6P1	H	1TB3	H6	X	X	X	
D15A20N	1P2	N	GND		X	X	X	
D16B20N	1J2	N	GND		X	X	X	
D17A20N	1RT1P1	A	GND		X	X	X	
E1A18	1P1	L	1P6	E			X	
E1A18N	1P1	L	1TB1	3	X	X	X	
E1B22	1J1	L	1TB3	H3	X	X	X	
E1C22	1M3P1	B	1TB3	F3	X	X	X	
E1D22	1M13P1	B	1TB3	G3	X	X	X	
E2A18	1P1	M	1P6	F	X	X	X	
E2B22	1J1	M	1TB3	E3	X	X	X	
E2C22	1M3P1	A	1TB3	D3	X	X	X	
E2D22	1M13P1	A	1TB3	J3	X	X	X	
E3A22	2A1P2	JJ	1CB20		X	X	X	
E3B22	2A1J2	JJ	1TB3	H1	X	X	X	
E3C22	1M3P1	E	1TB3	F1	X	X	X	
E3D22	1M13P1	E	1TB3	G1	X	X	X	
E4A22	1M4P1	A	1MT3P1	A	X	X	X	
E5A22	1M4P1	B	1MT3P1	D	X	X	X	
E6B22	1M4P1	C	1MT3P1	B	X	X	X	
E7B22	1M4P1	D	1MT3P1	C	X	X	X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
E8A22	1M14P1	A	1MT5P1	A	x	x	x	
E9A22	1M14P1	B	1MT5P1	D	x	x	x	
E10A22	2A1P2	KK	1CB19		x	x	x	
E10B22	2A1J2	KK	1TB3	K2	x	x	x	
E10C22	1M4P1	J	1TB3	E2	x	x	x	
E10D22	1M14P1	J	1TB3	D2	x	x	x	
E11A22N	1M14P1	K	1TB3	H4	x	x	x	
E12A22	2A1P2	<u>W</u>	1CB10		x	x	x	
E12B22	1TB3	C1	2A1J2	<u>W</u>	x	x	x	
E12C22	1M7P1	C	1TB3	B1	x	x	x	
E12D22	1M6P1	C	1TB3	A1	x	x	x	
E13A22N	1M7P1	H	1TB3	J6	x	x	x	
E14A18N	1TB1	4	1P6	N	x	x	x	
E15A22	1M7P1	G	1J1	x	x	x	x	
E15B18	1P6	P	1P1	x	x	x	x	
E16A18	1P1	J	1MT2P1	B	x	x	x	
E16B22	1J1	J	1M7P1	A	x	x	x	
E17A18	1P1	<u>C</u>	1MT2P1	C	x	x	x	
E17B22	1J1	<u>C</u>	1MP7P1	B	x	x	x	
E18A22	1J1	<u>H</u>	1M7P1	J	x	x	x	
E18B18	1P1	<u>H</u>	1MT2P1	A	x	x	x	
E19A22	1J1	<u>B</u>	1M7P1	K	x	x	x	
E19B18	1P1	<u>B</u>	1MT2P1	D	x	x	x	
E20A22N	1M7P1	D	1TB3	C4	x	x	x	
E21A22N	1M6P1	D	1TB3	B4	x		x	
E21A22N	1M6P1	D	GND			x		
E22A22N	1M4P1	K	1TB3	A4	x	x	x	
E23A22N	1M2P1	D	1TB3	K4	x	x	x	
E24A22	1CB17		2A1P2	<u>N</u>	x	x	x	
E24B22	2A1J2	<u>N</u>	1TB3	H2	x	x	x	
E24C22	1TB3	F2	1M1P1	C	x	x	x	
E24D22	1TB3	G2	1M11P1	C	x	x	x	
E25A22N	1TB3	J4	1M1P1	D	x	x	x	
E26A18	1P1	N	1P6	G			x	
E26A18N	1P1	N	1TB1	3	x	x		
E26B22	1J1	N	1TB3	C7	x	x	x	
E26C22	1M2P1	B	1TB3	A7	x	x	x	
E26D22	1M12P1	B	1TB3	B7	x	x	x	
E27A18	1P1	P	1P6	H	x	x	x	
E27B22	1J1	P	1TB3	H7	x	x	x	
E27C22	1M2P1	A	1TB3	F7	x	x	x	
E27D22	1M12P1	A	1TB3	G7	x	x	x	
E28A22N	1TB3	G4	1M11P1	D	x	x	x	
E29A22	1TB3	F4	1TB3	K5	x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
E30A22	1CB16		3A1P1	G	x	x	x	
E30B22	1M8P1	B	3A1J1	G	x	x	x	
E32A22N	1M13P1	F	1TB3	C5	x	x	x	
E33A22N	1M12P1	D	1TB3	B5	x	x	x	
E34A22N	22A1P1	R	1TB3	D4	x	x	x	
E34B22	22A1J1	R	1S38		x	x	x	
E35A22	1M8P1	E	22A1P1	P	x	x	x	
E35B22	22A1J1	P	1S38		x	x	x	
E36A22	1M8P1	H	1TB3	F8	x	x	x	
E36B22	1TB3	G8	1Z1P1		x	x	x	
E36C22	1TB3	H8	1Z2P1		x	x	x	
E37A22	1M8P1	D	1Z1P1		x	x	x	
E38A22	1M8P1	COAX	1TB3	A8	x	x	x	
E38B22	1TB3	B8	1Z1P3		x	x	x	
E38C22	1TB3	C8	1Z2P2		x	x	x	
E39A18N	1P1	J	1TB1	4	x	x	x	
E39B20N	1TB3	K6	1J1	J	x	x	x	
40A — CHROMEL	1P5	A	ENGINE		x		x	
E40B — CHROMEL	1J5	A	19TB3	2	x			
E40B — CHROMEL	1J5	A	1TB14	2		x		
E40B — CHROMEL	19TB3	3	1J5	A			x	
E40C — CHROMEL	1M11P1	T	19TB3	2	x		x	
E40C — CHROMEL	1TB14	2	1M11P1	T		x		
E40D — CHROMEL	19TB3	2	1M1P1	T	x		x	
E40D — CHROMEL	1TB14	2	1M1P1	T		x		
E41A — ALUMEL	1P5	B	ENGINE		x		x	
E41B — ALUMEL	19TB3	1	1J5	B	x		x	
E41B — ALUMEL	1J5	B	1TB14	1		x		
E41C — ALUMEL	1M11P1	U	19TB3	1	x		x	
E41C — ALUMEL	1TB14	1	1M11P1	U		x		
E41D — ALUMEL	19TB3	1	1M1P1	U	x		x	
E41D — ALUMEL	1TB14	1	1M1P1	U		x		
E42A22	2A1P2	LL	1CB18		x	x	x	
E42B22	2A1J2	LL	1TB3	C3	x	x	x	
E42C22	1M2P1	C	1TB3	B3	x	x	x	
E42D22	1M12P1	C	1TB3	A3	x	x	x	
E44A20N	1TB3	A6	GND		x	x	x	
E44A22N	1TB3	A6	GND		x			
E45A22N	1TB3	A5	1TB3	E6	x	x	x	
E46A20N	1TB3	E4	GND		x	x	x	
E48A22N	1M8P1	J	1TB3	D6	x	x	x	
E49B22	1M14P1	C	1MT5P1	B	x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
E50B22	1M14P1	D	1MT5P1	B	x	x	x	
F1A22	4CB1		3A1P1	K	x	x	x	
P1B22	4CB1		3A1P1	K	x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
F1C22	4Z1P1	B	3A1J1	J	x	x	x	
F1D22	4M1P1	B	3A1J1	K		x	x	
F2A22	2A1P1	<u>C</u>	5CB1		x	x	x	
F2B22	2A1J1	<u>C</u>	5M1P1	A	x	x	x	
F3A22(BLU) (SHLD)	4Z1P1	<u>F</u>	1TB10	A2	x		x	
F3A33(BLU)	1TB10	A3	4Z1P1	E		x		
F3A22(ORN) (SHLD)	4Z1P1	E	1TB10	H2	x		x	
F3A22(ORN)	1TB10	F2	4Z1P1	F		x		
F3A22(WHT) (SHLD)	4Z1P1	D	1TB10	K2	x		x	
F3A22(WHT)	1TB10	F3	4Z1P1	D		x		
F3B22(BLU) (SHLD)	4M1P1	E	1TB10	B2	x		x	
F3B22(BLU)	4M1P1	<u>E</u>	1TB10	E3		x		
F3B22(ORN) (SHLD)	4M1P1	<u>E</u>	1TB10	F2	x		x	
F3B22(ORN)	4M1P1	<u>F</u>	1TB10	K2		x		
F3B22(WHT) (SHLD)	4M1P1	<u>D</u>	1TB10	D2	x		x	
F3B22(WHT)	4M1P1	<u>D</u>	1TB10	K3		x		
F4A22N	SHLD		GND		x	x	x	
F6A22(BLU) (SHLD)	4Z1P1	P	1TB10	A1	x		x	
F6A22(BLU)	1TB10	F1	4Z1P1	H		x		
F6A22(ORN) (SHLD)	4Z1P1	H	1TB10	H1	x		x	
F6A22(ORN)	1TB10	A1	4Z1P1	P		x		
F6A22(WHT) (SHLD)	4Z1P1	R	1TB10	J1	x		x	
F6A22(WHT)	1TB10	A2	4Z1P1	R		x		
F6B22(BLU) (SHLD)	4M1P1	<u>C</u>	1TB10	B1	x			
F6B22(BLU)	4M1P1	<u>B</u>	1TB10	K1		x		
F6B22(BLU) (SHLD)	4M1P1	<u>C</u>	1TB10	C1			x	
F6B22(ORN) (SHLD)	4M1P1	<u>B</u>	1TB10	F1	x		x	
F6B22(ORN)	4M1P1	<u>C</u>	1TB10	E1		x		
F6B22(WHT) (SHLD)	4M1P1	<u>A</u>	1TB10	D1	x		x	
F6B22(WHT)	4M1P1	<u>A</u>	1TB10	E2		x		
F7A22	4M1P1	E	4M1P1	J		x	x	
F8A22	4M1P1	G	4M1P1	H		x		
F9A22	4M1P1	Z	4Z1P1	J	x	x	x	
F10A22N	4Z1P1	V	GND		x	x	x	
F10B22N	4Z1P1	A	GND		x	x	x	
F10C22N	4Z1P1	K	GND		x	x	x	
F10D22N	4Z1P1	T	GND		x	x	x	
F10E22N	4Z1P1	G	GND		x	x	x	
F10F22N	4Z1P1	Y	GND			x	x	
F10G22N	4Z1P1	L	GND			x	x	
F11A22N	4M1P1	A	GND		x	x	x	
F11B22N	4M1P1	H	GND		x	x	x	
F12A22N	5M1P1	B	GND		x	x	x	
F12B22N	5M1P1	F	GND		x	x	x	
F13A22	1CB11		2A1P2	D	x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
F13B22	2A1J2	D	4Z2J1	B	x	x	x	
F13C22	1CB11	H	2A1P2	H	x	x	x	
F13D22	2A1J2	D	4M1P1	X	x	x	x	
F14A22N	4M1P1	M	GND			x	x	
F15A22	2A1P2	Y	1CB21		x	x	x	
F15A22	4M1P1	M	4M1P1	F		x	x	
F15B22	2A1J2	P	1TB3	C2	x	x	x	
F15C22	1M5P1	P	1TB3	B2	x	x	x	
F15D22	1M10P1	M	1TB3	A2	x	x	x	
F16A22N	1M5P1	A	1TB3	J5	x	x	x	
F17A22N	1M5P1	M	1TB3	H5	x	x	x	
F18A22N	1M10P1	A	1TB3	G5	x	x	x	
F19A22N	1M10P1	F4	1TB3	F5	x	x	x	
F20A22	1TB10	C	4M1P1	P	x	x	x	
F20B22	4Z2P1	D	1TB10	G4	x	x	x	
F21A22	4Z2P1	B4	1TB10	C4	x	x	x	
F21B22	1TB10		4M1P1	R	x	x	x	
F22A22N	SHLD	C	GND		x		x	
F22A22N	4M1P1	A	GND			x		
F23A22N	4Z1P1	S	GND		x	x	x	
F26A22N	4M1P1	K5	GND			x	x	
F29A22	1TB3		1TB3	F4			x	
H1A20	1CB8	A	2A1P2	J	x	x	x	
H1B20	1A1J2	A	2A1J2	U	x	x	x	
H1C20	1A1P2	B	1S34	2	x	x	x	
H2A20	1A1P2	B	1S34	1	x	x	x	
H2B20	1A1J2	L	1A2J1	L	x	x	x	
H2C20	1A2P1	M	1S31	2	x	x	x	
H3A20	1A2P1	H	1S31	1	x	x	x	
H3B20	1J1	H	1A2J1	M	x	x	x	
H3C18	1P1	F	1P6	D	x	x	x	
H18A22	10A1P1	F	10S2	3	x	x	x	
H18B22	10A1J1	F	SPLICE		x	x	x	
H18C22	10XK1	A2	SPLICE		x	x	x	
H18D22	10S7		SPLICE		x	x	x	
H19A22	10XK1	A3	SPLICE		x	x	x	
H20A22	10L4P1	A	10S7		x	x	x	
H21A22	10A1P1	D	10S2	1	x	x	x	
H21B22	10XK1	B2	10A1J1	D	x	x	x	
H22A22N	10L4P1	C	GND		x		x	
H22A22N	10L4P1	B	GND			x		
H24A22N	SPLICE		GND		x	x	x	
H25A20	3A1P1	GG	10CB4		x	x	x	
H25B20	3A1J1	GG	10S6		x	x	x	
H26A20	10S6		SPLICE		x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
H26B20	10B3	T4	SPLICE		x	x	x	
H26C20	SPLICE		SPLICE		x	x	x	
H27A20	10B3	T5	SPLICE		x	x	x	
H28A20	10B3	T1	GND		x	x	x	
H37A22	10KI	B3	SPLICE		x	x	x	
H37B22	10Z1P1	A	SPLICE		x	x	x	
H37C22	1J1	A	SPLICE		x	x	x	
H37D20	1P1	A	10L1P1	3	x	x	x	
H38A22N	10Z1P1	N	GND		x	x	x	
H39A22	10Z1P1	B	10Z1P1	C	x	x	x	
H40A22	10Z1P1	D	10Z1P1	E	x	x	x	
H41A22	10A1P1	J	10R1	3	x	x	x	
H41B22	10A1J1	J	10Z1P1	H	x	x	x	
H42A22	10A1P1	H	10R1	2	x	x	x	
H42B22	10A1J1	H	10Z1P1	G	x	x	x	
H43A22	10A1P1	H	10R1	1	x	x	x	
H43B22	10A1J1	H	10Z1P1	F	x	x	x	
H44A20N	10L1P1	G	1TB1	2	x	x	x	
H45A22	10Z1P1	L	10B1P1	3	x	x	x	
H46A22	10Z1P1	M	10B1P1	1	x	x	x	
H47A22	10K1	X2	10TB1	1	x	x		
H47A22	10XK1	X2	10S3				x	
H48A22N	10TB1	2	GND		x	x		
H48A22N	10S3		GND				x	
H49A22	2A1P1	G	10CB1		x	x	x	
H49B22	2A1J1	G	10XK1	X1	x	x	x	
H49C22	2A1P1	F	10CB1		x	x	x	
H49D22	2A1J1	F	10A1J1	E	x	x	x	
H49E22	10A1P1	E	10S2	2	x	x	x	
H50A22	10Z1P1	J	10Z1P1	K	x	x	x	
H56A12	10P1	H	10S5	L2	x			
H56A12	10S5	L1	10P1	B		x	x	
H56B12	10J1	H	10B2P1	A	x			
H56B12	10J1	B	10B2P1	A		x	x	
H57A12N	10B2P1	B	GND		x	x	x	
H59A12	2K4	A2	10K2	A2			x	
H60A22	2A1P1	E	10CB3		x			
H60A22	3A1P1	E	10CB3			x		
H60A22	2A1P1	D	10CB3				x	
H60B22	22A5P1	66	3A1J1	E		x		
H60B22	2A1J1	D	3XK4	E1			x	
H61A12N	10P1	1	GND			x		
H61B12N	10J1	1	GND			x		
H62A22	10K2	X1	10S5	S2	x	x	x	
H63A22	10J1	A	10CR1		x			

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
H63A22	10J1	G	10CR1				X	
H63B22	10P1	A	10S5	S1	X			
H63B22	10P1	G	10S5	S1		X	X	
H64A22	10S4		10CR1		X	X	X	
H65A22N	10K2	X2	GND		X	X	X	
H66A22	2A1P1	E	10CB2		X	X	X	
H66B22	2A1J1	E	10A1J1	C	X	X	X	
H66C22	10A1P1	C	10S1	1	X	X	X	
H67A22	10A1P1	B	10S1	2	X	X	X	
H67B22	10J2	A	10A1J1	B	X	X	X	
H67C22	10P2	A	10HR1P1	A	X	X	X	
H68A22N	10P2	B	10HR1P1	B	X	X	X	
H68B22N	10J2	B	GND		X	X	X	
H69A20N	10P2	C	GND		X	X	X	
H69B20N	10J2	C	GND		X	X	X	
H70A22	20XK1	B2	10P1	H	X			
H70A22	22A5P1	67	10P1	H		X		
H70A22	10P1	H	3K4	E2			X	
H70B22	10J1	B	10CR1		X			
H70B22	10CR1	+	10J1	H		X	X	
H70C22	10S4		10CR1	+	X	X	X	
H71A22N	10S5	S3	GND		X	X	X	
H80A12	10K2	A1	10S5	L1	X			
H80A12	10K2	A1	10S5	L2		X		
J1A22	1CB6		2A1P2	S	X	X	X	
J1B22	1A1J1	K	2A1J2	S	X	X	X	
J1C22	1A1P1	K	1S16	1	X	X	X	
J2A22	1A1P1	L	1S16	2	X	X	X	
J2B22	1A1J1	L	4A1J1	R	X	X	X	
J2C22	1S39	2	4A1P1	R	X	X	X	
J3A22	1S36	1	4A2P1	L	X	X	X	
J3B22	4A2J1	L	1J1	R	X	X	X	
J3C18	1P1	R	SPLICE		X	X	X	
J3D18	SPLICE		1P6	K	X	X	X	
J3E18	SPLICE		1P6	J	X	X		
J3F18	1P6	J	SPLICE				X	
J4A22	4A1P1	S	1S39	C	X	X	X	
J4B22	4A2J1	K	4A1J1	S	X	X	X	
J4C22	1S36	3	4A2P1	K	X	X	X	
KY28-17A20	8TB4	J2	2319CP1P1	H	X			
K1A22	2A1P2	I	1CB7		X	X	X	
K1B22	2A1J2	I	4A2J1	J	X	X	X	
K1C22	4A2P1	J	1S36	6	X	X	X	
K2A22	4A2P1	M	1S36	4	X	X	X	
K2B22	4A2J1	M	1K3	X1	X	X	X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
K2C22	1K3	X1	2VR1P1	C	x	x	x	
K4A4	1J4	C	1K3	A1	x	x	x	
K4B4	1P4	C	1MG1	C	x	x	x	
K4C4	1J4	B	1K3	A1	x	x	x	
K4D4	1P4	B	1MG1	C	x	x	x	
K5A1	1P4	D	1MG1	E-	x	x	x	
K5B1N	1J4	D	2J1(-)		x	x	x	
K5C4	1P4	F	1MG1	E-	x	x	x	
K5D4N	1J4	F	GND		x	x	x	
L1A22	8CB1		2A1P1	A	x	x	x	
L1622	2A1J1	A	10A1J1	N		x	x	
L1C22	10A1P1	N	8S1	5	x	x	x	
L2A22	10A1P1	P	8S1	4	x	x	x	
L2B22	8Z1	B	10A1J1	P	x	x	x	
L3A22	10A1P1	R	8S3	2	x			
L3A22	10A1P1	R	10A1	2		x		
L3A22	10A1P1	R	8S1	2			x	
L3B22	8Z1	C	10A1J1	R	x			
L3B22	10A1J1	R	8Z1P1	C		x	x	
L4A22N	8Z1	E	GND		x			
L4A22N	GND		8Z1P1	E		x	x	
L5A22	10A1P1	R	8S3	2	x			
L5A22	8S1	1	SPLICE			x	x	
L5B22	SPLICE		8S1	6	x	x	x	
L5C22	SPLICE		8S2	2	x		x	
L5C22	8S1	6	SPLICE			x		
L6A22	10A1P1	L	8S2	3	x	x	x	
L6B22	10A1J1	L	1TB3	A9	x	x	x	
L6C22	1TB3	B9	8R1		x	x	x	
L7A22	10A1P1	M	8S2	1			x	
L7A22	10A1P1	M	8S11	1	x			
L7622	10A1J1	M	1TB3	F9	x	x	x	
L7C22	21P2	A	1TB3	G9	x	x	x	
L7D22	5DS2	G	21P2	A	x	x	x	
L7E22	1TB3	H9	8DS1		x			
L7E22	1TB3	H9	21J1	A		x	x	
L7F22	21P1	A	8DS1	R	x	x	x	
L8A22	1TB3	J9	8R1		x	x	x	
L8B22	10P1	C	1TB3	K9	x	x	x	
L8C22(BLU)	10J1	D	8TB1	2	x	x	x	
L8C22(WHT)	10J1	C	8TB1	1	x	x	x	
L8D22(BLU)	8TB1	2	8DS4		x	x	x	
L8D22(WHT)	3TB1	1	8DS4		x	x	x	
L8E22(BLU)	3TB1	2	8DS3		x	x	x	
L8E22(WHT)	3TB1	1	8DS3		x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
L10A22	8CB2		2A1P1	B	x	x	x	
L10B22	10A1J1	J	2A1J1	B	x	x	x	
L10C22	10A1P1	J	8S3	2	x	x	x	
L11A22	10A1P1	K	8S3	1	x	x	x	
L11B22	8J3	B	10A1J1	K	x	x	x	
L11C22	8P3	B	SPLICE		x	x	x	
L11D22	8DS5P1	B	SPLICE		x	x	x	
L11E22	8DS5P1	A	SPLICE		x	x	x	
L12A22	8DS5P1	C	8P3	A	x	x	x	
L12B22N	8J3	A	GND		x	x	x	
L13A22	2A1P1	C	8CB3		x	x	x	
L13B22	4A2J1	X	1A1J1	C	x	x	x	
L13C22	4A2P1	X	8S5	2	x	x	x	
L13D22	8S4	G	8S5	2	x	x	x	
L14A22	8S4	C	8S5	3	x	x	x	
L14B22	4A2P1	U	8S5	3	x	x	x	
L14C22	8DS6	7	4A2J1	U	x	x	x	
L15A22	4A2P1	R	8S5	1	x	x	x	
L15B22	8DS6	2	4A2J1	R	x	x	x	
L16A22	4A2P1	H	8S4	D	x	x	x	
L16B22	8DS6	5	4A2J1	H	x	x	x	
L17A22	4A2P1	P	8S4	F	x	x	x	
L17B22	8DS6	4	4A2J1	P	x	x	x	
L18A22	4A2P1	G	8S4	E	x	x	x	
L18B22	8DS6	6	4A2J1	G	x	x	x	
L20A22	8J5	96	8TB3	C5		x		
L20B22	8TB3	H5	8TP4			x		
L21A22	8TB3	G6	8TP8			x		
L21B22N	8TB3	B6	GND			x		
L27A12N	8DS6	1	GND		x	x	x	
L28A12	2TB2	6	8CB4		x	x		
L28A12	2TB2	G	8DS6	3			x	
L28A12	8CB4		2TB2	G			x	
L28B12	8DS6	3	2TB2	6	x	x		
L29A22	2A1P1	H	8CB6		x	x	x	
L29B22	8TB4	A4	2A1J1	H	x	x	x	
L29C22	4A1J1	D	8TB4	B4	x	x	x	
L29D22	8R10	7	4A1P1	D	x	x	x	
L29E22	8R10	7	8R11	7	x	x	x	
L29F22	8R11	7	8R12	7	x	x	x	
L29G22	8R12	7	8R13	7	x	x	x	
L29H22	8TB3	G4	4A3J1	X	x		x	
L29K22	8TB4	D4	4A1J1	<u>G</u>	x	x	x	
L29L22	4A1P1	<u>G</u>	8R14	7	x	x	x	
L29R22	8TB4	C4	8TB3	A4	x		x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
L29S22	4A1J1	P	8TB3	B4	X		X	
L29S22	4A1J1	<u>P</u>	8TB4	C4		X		
L29T22	4A1P1	<u>P</u>	8S12	1	X	X	X	
L30A22	8S12	3	8S12	4	X	X	X	
L30B22	4A1P1	Q	8S12	3	X	X	X	
L30B22 *	4A1P1	<u>Q</u>	END CAP		X	X	X	
L30C22	8TB3	<u>F</u> 4	4A1J1	<u>Q</u>	X		X	
L30C22	4A1J1	<u>Q</u>	4A3J1	<u>X</u>		X		
L31A22N	8S12	5	GND		X	X	X	
L38A22	2A1P1	J	8CB5		X	X	X	
L38B22	8TB5	F5	2A1J1	J	X	X	X	
L38C22	1A2J1	E	8TB5	A5	X	X		
L38C22	8TB5	A5	5A1P1	N			X	
L38D22	1A2P1	E	8R5	7	X	X		
L38D22	5A1J1	N	5A1A1J1	7			X	
L38E22	1A2J1	<u>C</u>	8TB5	B5	X	X	X	
L38F22	8R4	7	1A2P1	<u>C</u>	X	X	X	
L38G22	8R4	7	8R3	7	X	X		
L38H22	8TB5	G5	8TB8	J1	X	X	X	
L38J22	8TB8	D1	8XK1	E2	X		X	
L38J22	22A5P2	14	8TB8	D1		X		
L38K22	19XK90	A2	8TB8	E1			X	
L38K22	19XK80	E2	8TB8	E1	X			
L38K22	22A5P2	50	8TB8	E1		X		
L39A22N	1A2P1	<u>K</u>	GND		X	X		
L39B22N	1A2J1	<u>K</u>	GND		X	X		
L45A22	8CB8	5	2A1P1	K	X	X		
L45B22	2TB2	7	2A1J1	K		X		
L45B22	2TB2	7	8DS13				X	
L45C22	2A1P1	L	8CB8		X	X		
L45C22	28VDC ESS BUS	8C36	2A1P1	L			X	
L45D22	2A1J1	L	8DS14		X	X	X	
L45E22	2TB2	7	SPLICE			X		
L45E22	2TB2	7	2A1J1	K	X			
L46A22	8CB8	5	2A1P1	M	X	X	X	
L46B22	2A1J1	M	SPLICE		X	X	X	
L47A22	8CB11		SPLICE		X		X	
L47A22	8CB11		8S8	1		X		
L47B22	SPLICE		8S8	1	X		X	
L48A22	8S8	2	8DS16W		X		X	
L50A22A	1A1P1	A	GND			X		
L50A22N	1A1P1	A	GND			X		
L50A22N	21A1J1	<u>D</u>	GND				X	
L50B22N	1A1J1	<u>A</u>	GND			X		
L50B22N	21A1P1	<u>D</u>	GND				X	
L51A22N	22A1J1	N	GND			X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
L51B22N	22A1P1	N	GND			x		
L52A22N	4A2P1	Z	GND			x		
L52B22N	4A2J1	Z	GND			x		
L59A22	8P5	1	8XA6	45		x		
L61A22N	8DS13		GND		x	x	x	
L62A22N	8DS14		GND		x	x	x	
L63A22N	8DS15		GND		x	x	x	
L70A22	8TB4	D3	8TB4	C12		x		
L70B22	8TB4	D12	8TB3	A5		x		
L70C22	8TB3	F5	8TP1			x		
L142D22N	8Z4		GND		x	x		
L142D22N	8Z3		GND		x	x	x	
L143A22	19DS3	C	8Z4		x	x		
L143A22	8Z3		END CAP		x	x		
L143A22	19DS5	C	8Z3				x	
L144A22	8Z4		19DS2	C	x	x		
L144A22	8Z3		19DS5	C		x		
L144A22	19DS4	C	8Z3				x	
L147A22	8Z4	X2	SPLICE		x	x		
L147A22	8Z3		22A3J1	S			x	
L147A22	SPLICE		8Z3			x		
L148A22	22A3J1	S	8Z4	X1	x			
L148A22	22A2J1	S	8Z3	Coil	x	x		
L148A22	22A3J1	S	8Z4	Coil		x		
L148A22	22A2J1	I	8Z3				x	
L151A22N	10P1	D	GND		x	x	x	
L152A22	8R10	6	4A1P1	C	x	x	x	
L152B22	4A1J1	C	8PS2P1	A	x	x	x	
L154A22N	8PS2P1	B	GND		x	x		
L155A22	8J5	52	8PS2P1	C	x	x		
L155A22	8PS2P1	C	8XA5	36			x	
L156A22	8TB6	H2	8PS2P1	D	x	x	x	
L156B22	8XK4	D2	8TB6	C2	x	x	x	
L156C22	4A1J1	B	8TB6	D2	x	x	x	
L156D22	4A1P1	B	8R10	4	x	x	x	
L156E22	8R10	3	8R10	4	x	x	x	
L157A22	8TB6	F4	8J5	64	x	x		
L157A22	8XA5	33	8TB6	F4			x	
L157B22	8J5	85	8TB6	G4	x	x		
L157B22	8XA5	37	8TB6	G4			x	
L157C22	8TB6	H4	SPLICE		x	x		
L157C22	1M20P1	3	8TB6	H4			x	
L157D22	4A1J1	M	SPLICE		x	x	x	
L157E22	4A1P1	M	4A1J2		x	x	x	
L157E22 *	4A1P1	M	END CAP		x	x	x	
L157E22	1M20P1	3	SPLICE		x	x		
L157E22 *	SPLICE		SPLICE		x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
L158A22	8J5	80	1M18P1	A	X	X		
L158A22 *	8J5	80	SPLICE		X	X		
L158A22	1M18P1	A	8XA5	65			X	
L158A22 *	SPLICE		8XA5	65			X	
L159A22	8J5	81	8TB3	C4	X	X		
L159A22	1M19P1	C	8XA5	64			X	
L159B22	1M19P1	C	8TB3	D4	X	X		
L195B22 *	SPLICE		8TB3	D4	X	X		
L159C22	8TB3	E4	8TP3		X	X		
L160A22	8R12	5	8R13	5	X	X	X	
L160B22	8R11	5	8R12	5	X	X	X	
L160C22	8R10	5	8R11	5	X	X	X	
L160D22	4A1P1	A	8R10	5	X	X	X	
L160E22N	4A1J1	A	GND		X	X	X	
L161A22N	8J5	40	GND		X			
L161A22N	8XA4	62	GND				X	
L162A22	4A1P1	F	8R11	6	X	X	X	
L162B22	4A1J1	F	8PS3P1	A	X	X	X	
L164A22N	8PS3P1	B	GND		X	X	X	
L165A22	8J5	63	8PS3P1	C	X	X		
L165A22	8PS3P1	C	8XA5	70			X	
L166A22	8PS3P1	D	8TB6	A1	X	X	X	
L166B22	8XK4	B2	8TB6	B1	X		X	
L166B22	8TB6	B1	22A5P1	39		X		
L166C22	4A1J1	E	8TB6	C1	X	X	X	
L166D22	4A1P1	E	8R11	4	X	X	X	
L166E22	8R11	3	8R11	4	X	X	X	
L167A22	8TB6	J3	8J5	65	X	X		
L167A22	8XA5	67	8TB6	J3			X	
L167B22	8J5	86	8TB6	K3	X	X		
L167B22	8XA5	3	8TB6	K3			X	
L167C22	4M1P1	L	8TB6	D3	X	X	X	
L167C22 *	SPLICE		8TB6	D3	X	X	X	
L168A22	8J5	82	8TB6	F2	X	X		
L168A22	8XA5	1	8TB6	F2			X	
L168B22	8J5	73	8TB6	G2	X	X		
L168B22	8XA4	69	8TB6	G2			X	
L168C22	8TB6	A2	1M4P1	G	X	X	X	
L168C22 *	8TB6	A2	SPLICE		X	X	X	
L169A22	8J5	67	8TB6	A4	X	X		
L169A22	8XA5	66	8TB6	A4			X	
L169B22	8J5	97	8TB6	B4	X	X		
L169B22	8XA5	38	8TB6	B4			X	
L170A20N	8TB3	A1	GND		X	X	X	
L170B22	8TB3	B1	1M18P1	B	X	X	X	
L170B22 *	8TB3	B1	SPLICE		X	X	X	
L170C22	1M19P1	B	8TB3	C1	X	X	X	
L170C22 *	SPLICE		8TB3	C1	X	X	X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
L170D22	1M20P1	1	8TB3	D1	x	x	x	
L170E22	1M4P1	H	8TB3	E1	x	x	x	
L170F22	1M3P1	H	8TB3	F1	x	x	x	
L170G22	1M2P1	F	8TB3	G1	x	x	x	
L170H22	1M1P1	B	8TB3	H1	x	x	x	
L170J22	1M7P1	F	8TB3	J1	x	x	x	
L170K22	8TB3	F2	8TB3	K1	x	x	x	
L170L22	8TB3	A2	2M1P1	F	x	x	x	
L170M22	1M6P1	F	8TB3	B2	x	x	x	
L170N22	1M8P1	C	8TB3	C2	x	x	x	
L170S22	4M1P1	G	8TB3	G2	x	x	x	
L170U22	1M5P1	X	8TB3	J2	x	x	x	
L170V22	8TB3	K2	8TB3	F3	x	x		
L172A22	4A1P1	H	8R12	6	x	x	x	
L172B22	4A1J1	H	8PS4P1	A	x	x	x	
L174A22N	8PS4P1	B	GND		x	x	x	
L175A22	8J5	74	8PS4P1	C	x	x		
L175A22	8PS4P1	C	8XA4	70			x	
L176A22	8PS4J1	D	8TB6	J1	x	x	x	
L176B22	8XK4	C2	8TB6	K1	x		x	
L176B22	8TB6	K1	22A5P1	42		x		
L176C22	4A1J1	G	8TB6	D1	x	x	x	
L176D22	4A1P1	G	8R12	4	x	x	x	
L176E22	8R12	3	8R12	4	x	x	x	
L177A22	8J5	118	8XK4	B1	x			
L177A22	8J5	118	22A5P1	38		x		
L177A22	8XK4	B1	8XA5	13			x	
L178A22	8J5	125	8XK4	C1	x			
L178A22	6J5	125	22A5P1	41		x		
L178A22	8XK4	C1	8XA5	47			x	
L179A22	6J5	126	8XK4	D1	x			
L179A22	8J5	126	22A5P1	44		x		
L179A22	8XK4	D1	8XA5	44			x	
L180A22N	8J5	103	GND	X	x	x		
L180A22N	8XA5	48	GND				x	
L181A22N	8J5	40	GND			x		
L182A22	8R13	6	4A1P1	K	x	x	x	
L182B22	8TB7	B4	4A1J1	K	x	x	x	
L182C22	8XK3	A3	8TB7	C4	x		x	
L182C22	22A5P2	21	8TB7	C4		x		
L182D22	8Q5	C	8TB7	A4	x	x	x	
L182E22	8Q5	C	8Q6	C	x	x	x	
L182F22	8J5	106	8Q6	C	x	x		
L182F22	8Q6	C	8XA4	53			x	
L183A22	8XK3	A2	4A1J1	N	x		x	
L183A22	4A1J1	N	22A5P2	20		x		
L183B22	8R13	3	4A1P1	N	x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
L183C22	8R13	3	4A1P1	P	X	X	X	
L183D22	8J5	54	4A1J1	P	X	X		
L183D22	4A1J1	P	8XA4	54			X	
L184A22	8Q6	B	8Q5	B	X	X	X	
L184B22	8J5	132	8Q5	B	X	X		
L184B22	8Q5	B	8XA4	21			X	
L185A22	8R13	4	4A1P1	J	X	X	X	
L185B22	8J5	109	4A1J1	J	X	X		
L185B22	4A1J1	J	8XA4	55			X	
L187A22	8TB6	F3	8Q5	E	X	X	X	
L187B22	8TB6	G3	8J5	131	X	X		
L187B22	8XA4	13	8TB6	G3			X	
L187C22	8J5	130	8TB6	H3	X	X		
L187C22	8XA4	47	8TB6	H3			X	
L188A22	8Q6	E	8TB6	A3	X	X	X	
L188B22	8J5	129	8TB6	B3	X	X		
L188B22	8XA4	44	8TB6	B3			X	
L188C22	8J5	128	8TB6	C3	X	X		
L188C22	8XA4	42	8TB6	C3			X	
L189A22	4A1P1	H	8R14	4	X	X	X	
L189B22	8J5	6	4A1J1	H	X	X		
L189B22	4A1J1	H	8XA5	45			X	
L190A22N	8J5	27	GND		X	X		
L190A22N	8XA5	62	GND				X	
L192E22	8J5	110	21A1J1	E			X	
L195A22	8J5	110	8TB4	A1	X	X		
L195A22	8XA4	48	8TB4	A1			X	
L195AA22	4A2J1	N	8TB4	C3	X	X		
L195AB22	4A2P1	N	8J1108			X		
L195AC22	4A1J1	L	8TB4	G3		X	X	
L195AD22	4A1P1	L	4A1A1J1			X	X	
L195AC22	8TB4	G3	4A1J1	L	X			
L195AD22	4A1P1	L	4A1A1J1		X			
L195AE20 *	8TB5	C1	LR FLD LT		X	X	X	
L195AF20 *	8TB5	B1	UP FLD LT		X	X	X	
L195AG20 *	8TB5	F1	FLD LT		X	X	X	
L195B22	22A2P1	T	8TB4	B1			X	
L195B22 *	22A2P1	T	END CAP				X	
L195C22	22A2J1	T	8J104				X	
L195D22	21A1P1	88	8TB4	C1	X			
L195D22	21A1P1	E	8TB4	C1			X	
L195E22	21A1J1	E	8J110				X	
L195F22	8TB4	D1	9A1J1	B	X	X		
L195F22 *	8TB4	A2	9A1J1	B	X	X		
L195H22	8TB4	E1	1A1J1	B	X	X		
L195H22 *	8TB4	E2	1A1J1	B	X	X		
L195J22	1A1P1	B	8J107			X		
L195K22	8TB4	F1	2A2J1	D	X	X		
L195K22 *	8TB4	E3	2A2J1	D	X	X		
L195L22	2A2P1	D	8J101			X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
L195M22	8TB4	G1	3A1J1	C	x	x		
L195M22 *	8TB4	F2	3A1J1	C	x	x		
L195N22	3A1P1	C	3A1J3			x		
L195P22	8TB4	J1	22A1P1	M	x	x		
L195P22 *	8TB4	J1	SPLICE		x	x		
L195R22	22A1J1	M	8J109			x		
L195S22	8TB4	K1	8TB4	F2	x	x		
L195S22 *	8TB4	K1	END CAP		x	x		
L195T22	8TB4	B2	8A2P1	J	x		x	
L195V22	8TB4	K2	8TB4	F3	x	x		
L195W22	8TB4	A3	10A1J1	A	x	x	x	
L195X22	10A1P1	A	8J105			x		
L195X22	10A1P1	A	10R1	CCW			x	
L195Y22	8TB4	B3	2A1J1	G	x	x		
L195Z22	2A1P1	C	8J111			x		
L196A22	8J5	51	8TB7	A1	x	x		
L196A22	8XA5	7	8TB7	A1			x	
L197A22	8TB7	F2	4A3J1	W	x	x	x	
L197B22	8J5	33	8TB7	C2	x	x		
L197B22	8XA5	50	8TB7	C2			x	
L197C22	8XK3	X1	8TB7	G2	x		x	
L197C22	22A5P1	226	8TB7	G2		x		
L197D22	8XK4	X1	8TB7	H2	x		x	
L197D22	22A5P1	34	8TB7	H2		x		
L197E22	8J5	39	8TB7	J2	x	x		
L197E22	8XA4	61	8TB7	J2			x	
L197F22	8J5	36	8TB7	K2	x	x		
L197F22	8XA4	50	8TB7	K2			x	
L197G22	8J5	57	8TB7	A2	x	x		
L197G22	8XA4	9	8TB7	A2			x	
L197H22	8J5	28	8TB7	B2	x	x		
L197H22	8XA5	61	8TB7	B2			x	
L197J22	1TB10	K6	8TB7	D2		x		
L197K22	8J5	47	8TB7	E2	x	x		
L197K22	8XA5	9	8TB7	E2			x	
L199A22N	4A1P1	M	GND		x	x	x	
L199B22N	4A1J1	M	GND		x	x	x	
L200A22N	8XK3	X2	GND		x		x	
L200A22N	22A5P1	225	GND			x		
L201A22N	8XK4	X2	GND		x		x	
L201A22N	22A5P1	33	GND			x		
L202A22	1M3P1	G	8J5	72	x	x		
L202A22 *	SPLICE		8J5	72	x	x		
L202A22	1M3P1	G	8XA4	68			x	
L202A22 *	SPLICE		8XA4	68			x	
L203A22	1M2P1	E	8J5	71	x	x		
L203A22 *	SPLICE		8J5	71	x	x		
L203A22	1M2P1	E	8XA4	33			x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
L203A22 *	SPLICE		8XA4	33			X	
L204A22	1M1P1	A	8J5	70	X	X		
L204A22*	SPLICE		8J5	70	X	X		
L204A22	1M1P1	A	8XA4	67			X	
L204A22 *	SPLICE		8XA4	67			X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
L205A22	1M7P1	E	8J5	95	x			
L205A22 *	SPLICE		8J5	95	x			
L205A22	1M7P1	E	8J5	92		x		
L205A22 *	SPLICE		8J5	92		x		
L205A22	1M7P1	E	8XA4	66			x	
L205A22 *	SPLICE		8XA4	66			x	
L206A22	8J5	91	8TB7	D4	x	x		
L206A22	8XA4	31	2M1P1	E			x	
L206B22	2M1P1	E	8TB7	J4	x	x		
L206B22 *	SPLICE		8TB7	J4	x	x		
L206C22	8TB7	E4	8TB3	B5		x		
L206D22	8TB3	G5	8TP2			x		
L207A22	1M6P1	E	8J5	90	x	x		
L207A22 *	SPLICE		8J5	90	x	x		
L207A22	8XA4	65	1M6P1	E			x	
L207A22 *	8XA4	65	SPLICE				x	
L208A22	1M8P1	A	8J5	89	x	x		
L208A22 *	1M8P1	A	SPLICE		x	x		
L206A22	8XA4	64	1M8P1	A			x	
L208A22 *	8XA4	64	SPLICE				x	
L211A22	1M5P1	Y	8J5	68	x	x		
L211A22*	SPLICE		8J5	68	x	x		
L211A22	8XA5	31	1M5P1	Y			x	
L211A22*	8XA5	31	SPLICE				x	
L212A22	8R14	3	8R14	6			x	
L213A22N	8R14	5	GND		x	x	x	
L214C20 *	RP7633G	X2	SPLICE			x		
	152							
L215A22N	2A1P1	E	GND			x		
L215B22N	2A1J1	E	GND			x		
L216A22N	3A1P1	D	GND			x		
L216B22N	3A1J1	D	GND			x		
L217A22N	10A1P1	Z	GND			x	x	
L217B22N	10A1J1	Z	GND			x	x	
L220A22	8R5	6	1A2P1	D	x	x		
L220A22	5A1A1J	6	5A1J1	P			x	
L220B22	8TB8	H1	1A2J1	D	x			
L220B22	1A2J1	D	8TB8	E5		x		
L220B22	5A1P1	P	8TB8	H1			x	
L220C22	8XK1	A2	8TB8	F1	x			
L220C22	22A5P2	2	8TB8	J5		x		
L220C22	8TB8	G1	8XK1	A2			x	
L220D22	8TB8	G1	8Q1	C	x			
L220D22	8TB8	K5	8Q1	C		x		
L220D22	8TB8	F1	8Q1	C			x	
L220E22	8J5	60	8Q1	C	x	x		
L220E22	8XA6	57	8Q1	C			x	
L221A22	8J5	76	8Q1	B	x	x		
L221A22	8XA6	59	8Q1	B			x	
L222A22	8XK1	A3	1A2J1	C	x			
L222A22	1A2J1	C	22A5P2	3		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
L222A22	5A1P1	B	8XK1	A3			x	
L222B22	8R5	3	1A2P1	C	x	x		
L222B22	5A1A1J1	3	5A1J1	B			x	
M22C22	8R5	3	1A2P1	B	x	x		
L222C22	5A1A1J1	3	5A1 J 1	A			x	
L222D22	8J5	93	1A2J1	B	x	x		
L222D22	5A1P1	A	8XA6	58			x	
L223A22	8R5	4	1A2P1	<u>Q</u>	x	x		
L223A22	5A1J1	4	5A1J1	R			x	
L223B22	8J5	77	1A2J1	<u>Q</u>	x	x		
L223B22	5A1P1	R	8XA6	58			x	
L224A22N	GND		5A1J1	F	x	x	x	
L224B22N	5A1P1	F	GND		x	x	x	
L225AA20 *	8TB5	G8	CEN FLD LT		x	x	x	
L225AA20 #	SPLICE		CEN FLD LT			x		
L22A20	8TB8	F5	8Q1	E	x	x	x	
L225B22	8TB8	G5	8TB5	C6	x	x	x	
L225B22 *	8TB8	G5	8TB5	F7			x	
L225B22 *	8TB8	G5	8TB5	F8	x	x		
L225C22	5A1P1	M	8TB5	D6	x		x	
L225D22	5A1A1J1		5A1J1	M	x	x	x	
L225E22	5A1P1	H	8TB5	E6	x	x		
L225F22	5A1A2	J1	5A1J1	H	x	x		
L225F22 *	8TB5	H7	22A3P1	Z			x	
L225G22	8TB5	K6	8TB3	D5		x		
L225G22	8J103		22A3J1	Z			x	
L225H22	8TB3	J5	8TB5			x		
L225H22	8J102		8J103				x	
L226A22	8R3	5	8R5	5	x	x		
L226A22	5A1J1	S	5A1A1J1	5			x	
L226B22N	5A1P1	S	GND				x	
L227A22	8R3	6	1A2P1	<u>E</u>	x	x	x	
L227B22	8TB8	A1	1A2J1	<u>E</u>	x	x	x	
L227C22	8J5	75	8TB8	B1	x	x		
L227C22	8XA6	31	8TB3	B1			x	
L227D22	8TB8	C1	8PS1P1	A	x	x	x	
L228A22	8R3	3	8R3	4	x	x		
L228B22	8R3	4	1A2P1	<u>D</u>	x	x	x	
L228C22	8TB8	K2	1A2J1	<u>D</u>	x	x	x	
L228D22	8XK1	D2	8TB8	D2	x		x	
L228D22	22A5P2	11	8TB8	D2		x		
L228E22	8TB8	E2	8PS1P1	D	x	x	x	
L229A22	8J5	112	8XK1	D1	x			
L229A22	8J5	112	22A5P2	10		x		
L229A22	8XA6	13	8XK1	D1			x	
L230AA20 *	8TB5	J8	RC FLD LT		x	x	x	
L230AB20 *	8TB5	K8	RH FLD LT		x	x	x	
L230A22 *	8TB5	D8	8S1P1	C	x	x		
L230A22 *	8TB5	D7	8S1P1	C			x	
L230A22	8TB5	A1	8S1P1	C	x	x	x	
L230B20N *	GND		FLD LTS		x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES	PIN	REF DES	PIN	E	M	P	
L230B22	8TB5	E1	8TB5	A2	x	x	x	
L230C22	8TB5	C2	1M21P1	A	x	x	x	
L230D22	8TB5	D2	1M22P1	C	x	x	x	
L230E22 *	8TB5	E8	1M23P1		x	x		
L230E22 *	8TB5	E7	1M23P1				x	
L230E22	8TB5	E2	1M23P1		x	x	x	
L230F22	8TB5	F1	8A3P1	Y	x		x	
L230G22	8TB5	G1	5M1P1	D	x	x	x	
L230H22	8TB5	H1	1M11P1	A	x	x	x	
L230J22	8TB5	J1	1M14P1	G	x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
L230K22	8TB5	K1	1M12P1	E	x	x	x	
L230L22	8TB5	F2	1M13P1	G	x	x	x	
L230M22	8TB5	G2	1M10P1	Y	x	x	x	
L230N22	8TB5	B1	8TB3	A6		x		
L230P22	8TB3	F6	8TB7			x		
L231A22N	GND		BPS1P1	B	x		x	
L232A22	8J5	94	8Q2	B	x	x		
L232A22	8XA6	21	8Q2	B			x	
L233A22	8R4	6	1A2P1	B	x	x	x	
L233B22	8TB8	C2	1A2J1	B	x	x	x	
L233C22	8TB6	A2	8Q2	C	x		x	
L233C22	8TB8	C2	8Q2	C		x		
L233D22	8XK1	C2	8TB8	B2	x		x	
L233D22	22A5P2	8	8TB8	B2		x		
L233E22	8J5	61	8Q2	C	x	x		
L233E22	8XA6	53	8Q2	C			x	
L234A22	8XK1	C3	1A2J1	S	x		x	
L234A22	1A2P1	S	22A5P2	9		x		
L234B22	8R4	3	1A2P1	S	x	x	x	
L234C22	8R4	3	1A2P1	I	x	x	x	
L234D22	8J5	111	1A2J1	I	x	x		
L234D22	1A2J1	I	8XA6	54			x	
L235A22	8R4	4	1A2P1	A	x	x	x	
L235B22	8J5	95	1A2J1	A	x	x		
L235B22	1A2J1	A	8XA6	55			x	
L236AA20 *	8TB5	B8	LH FLD LT		x	x	x	
L236AB20 *	8TB5	C8	LC FLD LT		x	x	x	
L236A22	8TB8	A5	8Q2	E	x	x	x	
L236B22	8TB8	B5	8TB5	C5	x	x	x	
L236B22 *	8TB5	A7	8TB8	B5			x	
L236B22 *	8TB5	A8	8TB8	B5	x	x		
L236C22	5A1P1	G	8TB5	D5	x	x	x	
L236D22	5A1A3	J1	5A1J1	G			x	
L236D22	1A2J1	J	8TB5	E5	x	x		
L236E22	1A2P1	J	8J106		x	x		
L236F22	5A1A3J1		5A1J1	G		x		
L236G22	8TB3	E5	8TB5	J7		x		
L236H22	8TB3	K5	8TP6			x		
L238J22	8TB5	H5	8TB5	H7		x		
L236K22	8TB5	K7	8A3P1	Y		x		
L238A22	8R4	5	8R3	5	x	x		
L238B22	8R4	5	1A2P1	U	x	x		
L238B22	1A2P2	U	8R4	5			x	
L238C22N	1A2J1	U	GND		x	x	x	
L242A22N	8XK1	X2	GND		x		x	
L242A22N	22A5P2	223	GND			x		
L244A22	1A2J1	G	19XK90	A3			x	
L244A22 *	END CAP		19XK90	A3			x	
L244A22	1A2J1	G	19XK80	E3	x			
L244A22 *	END CAP		22A5P2	51		x		
L 2 4 4 2 2 #	1A2J1	G	22A5P2	51		x		

WIRE NO.	END 1		END 2	PIN	MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.		E	M	P	
L244A22 *	END CAP		19XK80	E3	x			
L244B22	8S9	2	1A2P1	<u>G</u>	x	x	x	
L245A22	5A2J1	X	19XK80	E1	x			
L245A22 *	END CAP		19XK80	E1	x			
L245A22	5A2J1	X	19XK90	A1			x	
L245A22 *	END CAP		19XK90	A1			x	
L245A22	22A5P2	49	5A2J1	X		x		
L245A22 *	22A5P2	49	END CAP			x		
L246A22	8S9	3	1A2P1	<u>H</u>	x	x	x	
L246B22	8TB8	F4	1A2J1	<u>H</u>	x	x	x	
L246B22 #	8TB8	A6	LA2J1	<u>H</u>		x		
L246C22	8TB8	G4	5A2J1	<u>W</u>	x	x	x	
L246D22	8XK1	X1	8TB8	H4	x		x	
L246D22	22A5P2	224	8TB8	H4		x		
L246E22	8J5	24	BTB8	J4	x	x		
L246E22	8XA6	61	BTB8	J4			x	
L247A22N	8J5	23	GND		x	x		
L247A22N	8XA6	62	GND				x	
L248A22	8J5	59	8XK1	E1	x			
L248A22	8J5	59	22A5P2	13		x		
L248A22	8XA6	70	8XK1	E1			x	
L249A22N	8J5	113	GND		x	x		
L249A22N	8XA6	48	GND				x	
L250A22N	8TB8	A3	GND		x	x	x	
L250B22	8TB5	E3	8TB5	A4	x	x	x	
L250C22	8TB5	C4	1M21P1	<u>B</u>	x	x	x	
L250D22	BTB8	D4	1M22P1	<u>B</u>	x	x	x	
L250E22N	8TB5	F3	1M10P1	X	x	x	x	
L250F22N	5M1P1	E	8TB5	G3	x	x	x	
L250G22N	8TB5	H3	1M11P1	B	x	x	x	
L250H22N	8TB5	J3	1M14P1	H	x	x	x	
L250J22N	8TB5	K3	1M12P1	F	x	x	x	
L250K22N	8TB5	F4	1M12P1	H	x	x	x	
L253A22	8J5	42	8TB8	A4	x	x		
L253A22	8TB8	A4	8XA6	9			x	
L254A22	8XK3	C3	8A2P1	<u>K</u>	x		x	
L254A22	22A5P2	27	8A2P1	<u>K</u>		x		
L255A22	4A1J1	U	8XK3	C2	x		x	
L255A22	4A1J1	U	22A5P2	26		x		
L255B22	4A1P1	U	8R13	2	x	x	x	
L255C22	4A1P1	T	8R13	2	x	x	x	
L255D22	22A2P1	<u>S</u>	4A1J1	T			x	
L256A22	4A1P1	V	8R13	1	x	x	x	
L256B22N	4A1J1	V	GND		x	x	x	
L257A22	8A3P1	V	8J5	3	x	x	x	
L258A22	1A2J1	<u>E</u>	8J5	25	x	x		
L258A22	1A2J1	<u>E</u>	8XA6	29			x	
L258B22	1A2P1	<u>E</u>	8R4	2	x	x	x	
L58C22	1A2P1	T	8R4	2	x	x	x	
L258D22	1A2J1	T	22A3P1	<u>S</u>			x	
L59A22	1A2P1	V	8R4	1	x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
L259A22	1A2P2	V	8R3	1			X	
L259B22N	1A2J1	V	GND		X	X	X	
L260A22N	19M1	4	GND		X			
L262A22 *	3425DS1	J	RP7633G152	A2		X		
L262B22 *	8TB5	B7	8TB5	E9		X		
L262C20 *	8TB5	J9	RP7633G152	A3		X		
L262D20 *	8TB5	G9	RP7633G152	A1		X		
L262E20	8TB5	H9	RP7633G152	X1		X		
L270A22	8TB4	B12	8J5	98		X		
L501A22	8P5	22	8XA4	45		X		
L502A22	8P5	21	8XA4	43	X	X		
L503A22	8P5	20	8XA4	51	X	X		
L504A22	8P5	19	8XA4	63	X			
L505A22	8P5	18	8XA4	60	X	X		
L506A22	8P5	40	8XA4	62	X	X		
L507A22	8P5	39	8XA4	61	X	X		
L508A22	8P5	38	8XA4	29	X	X		
L509A22	8P5	37	8XA4	25	X	X		
L510A22	8P5	36	8XA4	50	X	X		
L511A22	8P5	58	8XA4	52	X	X		
L512A22	8P5	57	8XA4	9	X	X		
L513A22	8P5	56	8XA4	46	X	X		
L514A22	8P5	55	8XA4	7		X		
L515A22	8P5	54	8XA4	54	X	X		
L516A22	8P5	74	8XA4	70	X	X		
L517A22	8P5	73	8XA4	69	X	X		
L518A22	8P5	72	8XA4	68	X	X		
L519A22	8P5	71	8XA4	33	X	X		
L520A22	8P5	70	8XA4	67	X	X		
L521A22	8P5	92	8XA4	66	X	X		
L522A22	8P5	91	8XA4	31	X	X		
L523A22	8P5	90	8XA4	65	X	X		
L524A22	8P5	89	8XA4	64	X	X		
L525A22	8XA4	58	8P5	88	X	X		
L526A22	8P5	110	8XA4	110	X	X		
L527A22	8P5	109	8XA4	55	X	X		
L528A22	8P5	108	8XA4	57	X	X		
L529A22	8P5	107	8XA4	59	X	X		
L530A22	8P5	106	8XA4	53	X	X		
L531A22	8P5	132	8XA4	21	X	X		
L532A22	8P5	131	8XA4	13	X	X		
L533A22	8P5	130	8XA4	47	X	X		
L534A22	85P	129	8XA4	44	X	X		
L535A22	8P5	128	8XA4	42	X	X		
L547A22	8P5	6	8XA5	45	X	X		
L549A22	8P5	8	8XA5	17	X	X		
L550A22	8P5	15	8XA5	51	X	X		
L551A22	8P5	16	8XA5	60	X	X		
L552A22	8P5	27	8XA5	62	X	X		
L553A22	8P5	28	8XA5	61	X	X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
L554A22	8P5	29	8XA5	29	x	x		
L555A22	8P5	33	8XA5	50	x	x		
L556A22	8P5	34	8XA5	52	x			
L557A22	8P5	46	8XA5	49	x			
L558A22	8P5	47	8XA5	9	x	x		
L560A22	8P5	51	8XA5	7	x	x		
L561A22	8P5	52	8XA5	36	x	x		
L562A22	8P5	63	8XA5	70	x	x		
L563A22	8P5	64	8XA5	33	x	x		
L564A22	8P5	65	8XA5	67	x	x		
L565A22	8P5	67	8XA5	66	x	x		
L566A22	8P5	68	8XA5	31	x	x		
L567A22	8P5	80	8XA5	65	x	x		
L568A22	8P5	81	8XA5	64	x	x		
L569A22	8P5	82	8XA5	1	x	x		
L57A22	8P5	85	8XA5	37	x	x		
L571A22	8P5	86	8XA5	3	x	x		
L572A22	8P5	97	8XA5	38	x	x		
L574A22	8XA4	40	8P5	99		x		
L575A22	8P5	103	8XA5	48	x	x		
L576A22	8P5	104	8XA5	57	x	x		
L577A22	8P5	116	8XA5	58	x	x		
L578A22	8P5	117	8XA5	59	x	x		
L578A22	8XA4	39	8P5	98		x		
L579A22	8P5	118	8XA5	13	x	x		
L580A22	8P5	125	8XA5	47	x	x		
L581A22	8P5	126	8XA5	44	x			
L581A22	8XA4	126	8P5	126		x		
L594A22	8P5	1	8XA6	45	x	x		
L595A22	8P5	2	8XA6	63	x	x		
L596A22	8P5	3	8XA6	60	x	x		
L597A22	8P5	23	8XA6	62	x	x		
L598A22	8P5	24	8XA6	61	x	x		
L599A22	8P5	25	8XA6	29	x	x		
L600A22	8P5	41	8XA6	25	x	x		
L601A22	8P5	42	8XA6	9	x	x		
L602A22	8P5	43	8XA6	7	x	x		
L603A22	8P5	59	8XA6	70	x	x		
L604A22	8P5	60	8XA6	57	x	x		
L605A22	8P5	61	8XA6	53	x	x		
L606A22	8P5	75	8XA6	31	x	x		
L607A22	8P5	76	8XA6	59	x	x		
L608A22	8P5	77	8XA6	58	x	x		
L609A22	8P5	93	8XA6	56	x	x		
L610A22	8P5	94	8XA6	21	x	x		
L611A22	8P5	95	8XA6	55	x	x		
L612A22	8P5	111	8XA6	54	x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
L613A22	8P5	112	8XA6	13	x	x		
L614A22	8P5	113	8XA6	48	x	x		
L615A22	8XA6	46	8P5	4		x		
L616A22	8XA6	46	8P5	5		x		
L617A22	8XA4	5	8P5	96		x		
L901A20 * * *	10A1J1	A	NVG PL CB		x	x	x	
L901B20 * * *	10A1P1	A	NVG PL SW	11	x	x	x	
L901C20 * * *	10A1P1	F	NVG PL SW	16	x	x	x	
L901D20 * * *	10A1J1	F	TB1	2	x	x	x	
L901E20 * * *	TB1	2	3405J1	B	x		x	
L901E20 * * *	TB1	2	NVGJ1	A		x		
L901F20 * * *	3405P1	B	TB2	2	x		x	
L901F20 * * *	NVGP1	A	TB2	2		x		
L901G20 * * *	TB2	1	LH TL LT		x	x	x	
L901H20 * * *	TB2	2	FIN LT		x	x	x	
L901J20 * * *	TB2	3	RH TL LT		x	x	x	
L901K20N * * *	LH TL LT		GND		x	x	x	
L901L20N * * *	FIN LT		GND		x	x	x	
L901M20N * * *	RH TL LT		GND		x	x	x	
L901P20 * * *	TB1	3	21J2	B	x	x	x	
L901R20 * * *	21P2	B	RH WG LT		x	x	x	
L901S20N * * *	RH WG LT		GND		x	x	x	
L901T20 * * *	TB1	1	21J1	B	x	x	x	
L901U20 * * *	21P1	B	LH WG LT		x	x	x	
L901V20N * * *	LH WG LT		GND		x	x	x	
PS28A20 * * *	NVG PL CB		28 VDC ESS BUS		x	x	x	
P1A16	2A1P2	Z	2CB4		x	x	x	
P1B16	2K5	GEN	2A1J2	Z	x	x	x	
P1C1	2K5	GEN	2R1	-(SHUNT)		x		
P2A16	2A1P2	Y	2CB4		x	x	x	
P2B16	2A1J2	Y	2TB1	A9	x	x		
P2B16	2A1J2	Y	SPLICE				x	
P2C16	2TB1	C	2A2J1	Z	x			
P2C16	2TB1	B9	2A2J1	Z		x		
P2C16	SPLICE		2A2J1	Z			x	
P2D16	2A2P1	Z	2S3	3	x	x	x	
P2E16	2TB1	B9	2VR1P1	B	x			
P2E16	2TB1	C9	2VR1P1	B		x		
P2E16	SPLICE		2VR1P1	B			x	
P4A16	2XK6	B3	1A2J1	R	x	x	x	
P4B16	1A2P1	R	2S4	4	x	x	x	
P5A16	1A2P1	M	2S4	5	x	x	x	
P5B16	1A2J1	M	2A2J1	W	x	x	x	
P5C16	2A2P1	W	2S3	2	x	x	x	
P6A22	2XK8	X2	2x2	NEG	x	x		
P6A22	19K1P1	D	1TB3	E9			x	
P6B22	1A2J1	A	2XK3	X2	x	x		
P6B22	1A2J1	A	1TB3	D9			x	
P6C22	2S4	1	1A2P1	A	x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
P6D22	2K2	NEG	2XK3	B2	x	x		
P6D22	1TB3	C9	2XK3	X2			x	
P7A22	2S4	2	1A2P1	R		x	x	
P7B22	1A2J1	R	2A2J1	U	x	x	x	
P7C22	2A2P1	U	2S1	6	x	x		
P7C22	2S1	3	2A2P1	U			x	
P8A22N	2S1	5	GND		x	x		
P8A22N	2S1	2	GND				x	
P8B22N	2A2P1	Y	GND		x	x		
P8B22N	2A2P1	Y	GND				x	
P8C22N	2A2J1	Y	GND		x	x		
P8C22N	2A2J1	Y	GND				x	
P9A22	2XK6	Y1	2A2J1	S	x	x		
P9A22	2XK6	Y1	2A2J1	S			x	
P9B22	2A2P1	S	2S3	5	x	x	x	
P11A22	2CB3		2A1P2	BB	x	x	x	
P11B22	2A1J2	BB	2A2J1	T	x	x		
P11B22	SPLICE		2A1J2	BB			x	
P11C22	2A2P1	T	2S3	4	x	x		
P11C22	2A2J1	T	SPLICE				x	
P11D22	2A2P1	T	SPLICE				x	
P11E22	2S2	1	SPLICE				x	
P11F22	SPLICE		2S3	4			x	
P11G22	2XK7	B1	SPLICE				x	
P12A22	2S2	2	2A2P1	F	x	x		
P12A22	2K4	X1	2A2J1	V			x	
P12B22	2TB1	J4	2A2J1	F	x	x	x	
P12C22	2TB1	K4	2K4	X1	x	x		
P12D22	2XK16	B2	2TB1	E4	x	x		
P12E22	2XK14	C1	2TB1	D4	x	x		
P13A22	2S2	1	2A2P1	E	x	x		
P13A22	2S2	3	2A2P1	X			x	
P13B22	2A2J1	E	2TB1	K5	x	x		
P13B22	2XK7	B2	2A2J1	X			x	
P13C22	2XK16	B1	2TB1	E5	x	x		
P13D22	2XK14	C2	2TB1	D5	x	x		
P13E22	2XK15	A2	2TB1	C5	x	x		
P14A16	2XK6	A3	2VR1P1	A	x	x	x	
P15A22	2XK6	X1	2VR1P1	D	x	x	x	
P16A16	2K5	SW	2XK6	B2	x	x	x	
P16B22	2K20P1	K	2K5	SW		x		
P16C22	2K20P1	F	2K5	SW		x		
P17A22N	2XK7	X2	2TB1	4			x	
P17B22N	2XK6	Y2	2TB1	4	x	x	x	
P17C22N	2XK6	X2	GND		x	x		
P17C22N	2XK6	X2	2TB1	4			x	
P17D22N	2XK14	D3	2TB1	A7	x	x		
P17D22N	2XK7	A2	2TB1	5			x	
P17E20N	2TB1	5	GND				x	
P17E22N	2XK15	D2	2TB1	B7	x	x		
P17F22N	2XK14	X2	2TB1	F7	x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
P17G22N	2XK15	X2	2TB1	G7		X		
P17H22N	2XK16	X2	2TB1	H7	X	X		
P17J22N	2XK17	X2	2TB1	J7	X	X		
P17K20N	2TB1	D7	GND		X	X		
P18A22	2XK15	B2	2TB1	A5	X	X		
P18B22	2XK16	C1	2TB1	B5	X	X		
P18C22	2TB1	F5	2A2J1	V	X	X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
P18D22	2S2	5	2A2P1	X	x			
P18D22	2S2	4	2A2P1	/		x		
P19A22	2A2P1	X	2S2	5	x	x		
P19B22	2TB1	K3	2A2J1	X	x	x		
P19C22	2XK16	C2	2TB1	C3	x	x		
P19E22	2XK8	A2	2TB1	H3	x			
P19F22	2TB1	J3	2K9	X1	x	x		
P20A22	2CB10		2K5	IND	x	x		
P20A22	2K5	IND	2XK7	X1			x	
P21A18	2K1	X1	2J1	+	x	x	x	
P22A22	2TB1	F3	2CB8		x	x		
P22A22	2K1	X1	2XK7	B3			x	
P22B22	2CB8		2XK15	A3	x	x		
P22C22	2XK14	F3	2TB1	G3	x	x		
P23A22	2XK16	A3	2TB1	G4		x		
P24A22	2XK16	D3	2TB1	B4	x	x		
P24D22	2TB1	A4	2TB1	H3	x	x		
P25A16	1P1	C	1MG1	A	x	x	x	
P25B16	1J1	C	2XK6	A2	x	x	x	
P26A1	1P4	A	1MG1	B+	x	x	x	
P26B1	1J4	A	2R1	+ SHUNT	x	x	x	
P26C4	1P4	E	1MG1	B+	x	x	x	
P26D4	1J4	E	2R1	SHUNT	x	x	x	
P27A22	28 VDC ESS BUS		2CB8		x			
P27A22	2CB8	BUS	1K3	A2	x	x		
P28A2	2K1	A1	2J1	+	x	x	x	
P28B4	2K1	A1	2J1	+	x	x	x	
P28C22	2K1	A1	2K1	11	x			
P28C22	2K1	A2	2K1	11		x		
P29A2N	2J1		GND		x	x	x	
P29B4N	2J1		GND		x	x	x	
P30A22	2K1	X2	2TB1	H6	x	x		
P30A22	2K1	X2	2TB1	3			x	
P31A2ALUM	19CB4		2K3	A2			x	
P31B2ALUM	19CB5		2K3	A2			x	
P35A8	28 VDC ESS BUS		2K2	TR BUS	x	x		
P35A8	2TB2	4	2K2	TR BUS	x	x		
P35A8	28 VDC ESS BUS		2K4	A1			x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
P35B8	28 VDC ESS BUS	5	2K2	TR BUS	x	x		
P35B8	2TB2		2K2	TR	x	x		
P35B8	28 VDC ESS BUS		2K4	A1			x	
P35D16	28 VDC ESS BUS		2CR15		x	x		
P35G8	2A1	ESS DC BUS	2TB2	4	x	x		
P35H8	2A1	ESS DC BUS	2TB2	5	x	x		
P36A22N	GND	GND F4	2VR1P1	E	x	x	x	
P36B22N	2K5		GND				x	
P37C22	2TB1		2XK14	B3	x	x		
P38A20	28 VDC TRL BUS		2CB9			x		
P38A20	2K12	A2	2CB9		x			
P39A20	2TB1	F2	2CB9		x	x		
P39B22	2XK15	X1	2TB1	A2	x			
P39B22	2XK14	X1	2TB1	A2		x		
P39C22	2XK17	C2	2TB1	B2	x	x		
P39D22	2XK14	B2	2TB1	C2	x	x		
P39E22	2XK16	E2	2TB1	D2	x	x		
P39F22	2TB1	G2	2K4	14	x	x		
P39G22	2XK8	D2	2TB1	H2	x	x		
P40A22	2XK14	A1	2XK16	D2	x	x		
P41A22	2XK14	A3	2XK15	B3	x	x		
P42A00N	2BT1P1		GND		x	x	x	
P43A22	2XK17	C1	2TB1	H4	x	x		
P44A22	2TB1	E1	2CB109		x	x		
P44B22	2XK14	X1	2TB1	D1	x	x		
P44F22	2XK14	F1	2TB1	J1	x	x		
P44G22	2XK14	E2	2TB1	K1	x	x		
P45A22	2K1	12	2CB7		x	x		
P46A22	2XK15	C2	2XK8		x			
P47A22	2XK16	A2	2K9	13	x	x		
P48A22	2K10	X1	2K9	14	x	x		
P50A8	2TB2	3	2K11	A1	x	x		
50B8	2TB2	2	2K11	A1	x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
P50E8	2A1	NON ESS DC BUS	2TB2	3	x	x		
P50F8	2TB2	2	2A1	BUS	x	x		
P51A4	A7		19CB4				x	
P52A4	A6		19CB5				x	
P53A22	2XK17	B2	2K13	X1	x	x		
P54A22	2XK17	A2	2K13	13	x	x		
P55A22	2XK17	A1	2K12	X1	x	x		
P56A22	2K10	14	2XK3	A2	x	x		
P56B22	2XK8	X1	2K10	14	x	x		
P57A22	2K11	X1	2K4	13	x	x		
P57A22	19K1P1	H	2K2	X2			x	
P58A22	2K2	APP	2K10	13	x	x		
P59A22	2K10	X2	3K1	11	x	x		
P60A22N	2K12	X2	GND		x	x		
P61A22N	2K9	X2	GND		x	x		
P62A22N	2K13	X2	GND		x	x		
P63A00	2K2	BUS	2BT1P1	+ BAT	x	x	x	
P63B18	2K2	BUS	2CB6		x	x		
P63B18	2K2	X1	2K2	A2			x	
P63C16	2K2	BUS	BUS		x			
P63C16	19CB126		2K2	BUS		x		
P64A22	2K11	X2	2K10	X2	x			
P64A22N	2K11	X2	GND			x		
P64B22	2K10	X2	2XK15	X2	x			
P65A20	2CB6		2XK18	A2	x	x		
P65A22	2K3	X1	2TB1	2			x	
P66A12	21CB1		2K2	A2			x	
P67A22N	2K4	X2	GND		x	x	x	
P68A22N	1K3	X2	GND		x	x	x	
P70A12	10K2	A2	28 VDC ESS BUS		x			
P70A12	10K2	A2	20CB1 PWR	TOW		x		
P70A12	2K4	A2	28 VDC ESS BUS			x		
P70A12	2K4	A2	20CB2			x		
P71A2	3PS2	+	28 VDC TRU BUS		x	x		
P72A2N	3PS2		GND		x	x		
P74A20	2XK18	A1	2A1J2	K	x	x		
P74B20	2A1P2	K	2CR14		x	x		
P75B20	2A1		9CB3		x	x		
P80A22	2K13	14	2XK8	D1	x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
P80B22	2XK16	E1	2K13	14	x	x		
P81A22	2CB7	BUS	2K16	X1	x	x	x	
P82A22	2XK14	A2	2TB1	H1	x	x		
P82B22	2XK14	F2	2TB1	G1	x	x		
P83A22	2XK15	E2	2TB1	K6	x	x		
P83B22	2XK8	C1	2TB1	J6	x	x		
P83C22	2XK17	B1	2TB1	E6	x	x		
P84A22	2XK15	E3	2XK16	F2	x	x		
P85A22	2XK15	E1	2TB1	A1	x	x		
P85B22	2XK8	C2	2TB1	B1	x			
P85B22	2TB1	B1	2K1	14		x		
P85C22	2XK14	E1	2TB1	C1	x	x		
P86A22	2CB6		2XK3	A1	x	x		
P86B22	2CB6		2XK3	X1	x	x		
P87A22N	2XK3	B1	GND		x	x		
P89A22	2XK8	C2	2K1	13	x	x		
P92A22	2K20P1	B	2K5	APP		x		
P93A22N	2K20P1	A	GND			x		
Q1A22	2A1P2	R	1CB5		x	x	x	
Q1B22	1TB3	J1	2A1J2	R	x	x	x	
Q1C22	1TB3	E1	1A1J1	H	x	x	x	
Q1D22	1A1P1	H	1S32	2	x	x	x	
Q1E22	1TB3	K1	4A2J1	C	x	x	x	
Q1F22	4A2P1	C	1S35	NO(1)	x	x	x	
Q1G22	1S35	NO(1)	1S35	NO(2)	x	x	x	
Q1H22	1TB3	D1	1A2J1	G	x	x	x	
Q1J22	1A2P1	G	1S29	NO(1)	x	x	x	
Q1K22	1S29	NO(1)	1S29	NO(2)	x	x	x	
Q2A22	1A1P1	X	1S32	1	x	x	x	
Q2B22	1A1J1	X	1A2J1	Z	x	x	x	
Q2C22	1A2P1	Z	1S28	2	x	x	x	
Q3A22	1A2P1	Y	1S28	1	x	x	x	
Q3B22	1J1	V	1A2J1	Y	x	x	x	
Q3C18	1P1	V	1P6	M	x	x	x	
Q4A22	1A1P1	Y	1S32	3	x	x	x	
Q4B22	1A1J1	Y	1A2J1	W	x	x	x	
Q4C22	1A2P1	W	1S28	3	x	x	x	
Q4D22	1A1P1	J	1S32	3	x	x	x	
Q4E22	1A1J1	J	1J1	T	x	x	x	
Q4F18	1P1	T	1P6	L	x	x	x	
Q6A22	2A1P2	P	1CB3		x	x	x	
Q6B22	2A1J2	P	SPLICE		x	x	x	
Q6C22	1A2J1	N	SPLICE		x	x	x	
Q6D22	4A2J1	B	SPLICE		x	x	x	
Q6D22	J78	B	SPLICE				x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
Q6E22	4A2P1	B	1S37		x	x	x	
Q6E22	P78	B	1S37				x	
Q6F22	1A2P1	N	1S30	2	x	x	x	
Q7A22	4A2P1	A	1S37		x	x	x	
Q7A22	P78	A	1S37				x	
Q7B20	4A2J1	A	SPLICE		x	x	x	
Q7B20	J78	A	SPLICE				x	
Q7C22	1A2J1	P	SPLICE		x	x	x	
Q7D22	1A2P1	P	1S30	1	x	x	x	
Q7E20	1L5		SPLICE		x	x	x	
Q8A20N	1L5		GND		x	x	x	
Q9A22	1CB4		2A1P2	Q	x	x	x	
Q9B22	1A1J1	M	2A1J2	Q	x	x	x	
Q9C22	1A1P1	M	1S16	5	x	x	x	
Q10A22	1A1P1	Z	1S16	4	x	x	x	
Q10B22	1A1J1	Z	1B4P1	A	x	x	x	
Q11A22	1A1P1	A	1S16	6	x	x	x	
Q11B22	1A1J1	A	1B4P1	B	x	x	x	
Q12A22N	1B4P1	E	GND		x	x	x	
Q13A18	2A1P2	AA	1CB9		x	x	x	
Q13B18	1A1J2	J	2A1J1	AA	x	x	x	
Q13C18	1A1P2	J	1S33	8	x	x	x	
Q14A18	1A1P2	K	1S33	7	x	x	x	
Q14B18	1A1J2	K	1TB6	1	x	x	x	
Q15A18	2A1P2	DD	1CB12		x	x	x	
Q15B18	1A1J2	L	2A1J2	DD	x	x	x	
D15C18	1A1P2	L	1S33	11	x	x	x	
D16A18	1A1P2	M	1S33	10	x	x	x	
D16B18	1A1J2	M	1TB7	1	x	x	x	
D22A22	4A2P1	D	1S35	C(1)	x	x	x	
D22B22	1J1	D	4A2J1	D	x	x	x	
Q22C18	1P1	D	1B3	E	x	x	x	
Q23A22	4A2P1	E	1S35	C(2)	x	x	x	
Q23B22	1J1	B	4A2J1	E	x	x	x	
D23C18	1P1	B	1B3	R	x	x	x	
Q24A22	4A2P1	F	1S35	NC(1)	x	x	x	
Q24B22	1A2J1	H	4A2J1	F	x	x	x	
Q24C22	1A2P1	H	1S29	C(1)	x	x	x	
Q25A22	4A2P1	Y	1S35	NC(2)	x	x	x	
Q25B22	1A2J1	F	4A2J1	Y	x	x	x	
Q25C22	1A2P1	F	1S29	C(2)	x	x	x	
Q26A18N	1B3	GND	1TB1	2	x	x	x	
Q27A16N	1P6	C	1TB1	2	x	x	x	
Q27B16N	1P1	U	1TB1	2	x	x	x	
Q27C16N	1J1	U	GND		x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF.DES.	PIN	E	M	P	
Q46A18N	1TB6	2	GND		X	X	X	
Q47A18N	1TB7	2	GND		X	X	X	
SLA12* * *	28 VDC ESS BUS		SKID LDG LT CB		X	X	X	
SLB12* * *	SKID LDG LT CB		SKID LDG LT SW		X	X	X	
SLC12* * *	SKID LDG LT SW		SKID LDG LT		X	X	X	
SL12N* * *	SKID LDG LT		GND		X	X	X	
TG1A22	20P325	C	20A1J09		X		X	
TG1A22	19TB4	H20	20A1J09			X		
TG1B22	20A2P03	B	20J325		X		X	
TG1B22	22A5P1	31	19TB4			X		
TG2A22	20P325	D	20A1J09		X		X	
TG2A22	20A2P03		20A1J09			X		
TG2B22	20J325		20A2P03		X		X	
TG3A22	20P325	E	20A1J09		X		X	
TB3A22	20A2P03	G	20A1J09			X		
TG3A22 #	20P327		20A1J09			X		
TG3B22	20A2P03		20J325		X		X	
TG4A10	20CB1		10P1		X			
TG4A16	16TB1	G10	20CB1			X		
TG4B10	10J1	F	20TB1		X		X	
TG4B16	16TB1	H10	20CB1			X		
TG5A10N	20TB1	5	GND		X		X	
TG5A16N	16TB1	G11	GND			X		
TG5B16N	16TB1	H11	GND			X		
TG6A20(BLU)	20A1P11	B	20P323	M	X		X	
TG6A20(BLU)	20A7P03	K	20A1P11	A		X		
TG6A20(WHT)	20A1P11	A	20P323	N	X		X	
TG6A20(WHT)	20A7P03		20A1P11	B		X		
TG6B20(BLU)	20A7P03		20J323	M	X			
TG6B20(BLU)	20A7P03		20J323	M			X	
TG6B20(WHT)	20A7P03		20J323	N	X			
TG6B20(WHT)	20A7P03		20J323	N			X	
TG7A22	20A2P03		19TB4	G20		X		
TG8A22	20A4P02		20A1P11	C	X	X	X	
TG9A22	20A1P11		20A4P02		X		X	
TG10A22	20A1P11	E	20A4P02		X		X	
TG11A22	20A1P11	F	20A4P02		X	X	X	
TG12A16(BLU)	20P328	Z	20A1P06	W	X		X	
TG12A16(BLU)	20A1P06	W	20A2P01			X		
TG12A16(BLU) #	SPLICE		20A2P01			X		
TG12A16(WHT)	20P328		20A1P06	A	X		X	
TG12A16(WHT)	20A2P01		20A1P06	A		X		
TG12A16(WHT)#	20A2P01		SPLICE			X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
TG12B16(BLU)	20A2P01	<u>E</u>	20J328	Z	x		x	
TG12B16(WHT)	20J328	<u>A</u>	20A2P01	<u>C</u>	x		x	
TG13A22	END CAP		END CAP				x	
TG14A16(BLU)	20A2P01	<u>A</u>	20A1P06	BB		x	x	
TG14A16(BLU) #	20A2P01	<u>A</u>	SPLICE			x		
TG14A16(BLU)	20P328	<u>P</u>	20A1P06	BB	x		x	
TG14A16(WHT)	20P328	<u>C</u>	20A1P06	<u>P</u>	x	x		
TG14A16(WHT)	20A2P01	<u>C</u>	20AP06	<u>P</u>				
TG14A16(WHT) #	20A2P01	<u>Z</u>	SPLICE			x		
TG14B16(BLU)	20A2P01	<u>Z</u>	20J328	<u>P</u>	x		x	
TG14B16(WHT)	20J328	<u>A</u>	20A2P01	Z	x		x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG15A22	20A1P06	K	END CAP		X		X	
TG16A22(BLU)	20A1P06	X	20P324	D	X		X	
TG16A22(BLU)	20A7P03	B	20A1P06	X		X		
TG16A22(WHT)	20P324	C	20A1P06	B	X		X	
TG16A22(WHT)	20A7P03	E	20A1P06	B		X		
TG16622(BLU)	20A7P03	B	20J324	D	X		X	
TG16B22(WHT)	20A7P03	E	20J324	C	X		X	
TG17A22	20A1P01	GG	END CAP		X	X	X	
TG18A16(BLU)	20P323	C	20A1P06	S	X		X	
TG18A16(BLU)	SPLICE		20A1P06	S		X		
TG18A16(ORN)	20P323	B	20A1P06	T	X		X	
TG18A16(ORN)	SPLICE		20A1P06	T		X		
TG18A16(WHT)	20A1P06	R	20P323	A	X		X	
TG18A16(WHT)	20A1P06	R	SPLICE			X		
TG18B16(BLU)	SPLICE		20J323	C	X		X	
TG18B16(ORN)	20J323	B	SPLICE		X		X	
TG18B16(WHT)	20J323	A	SPLICE		X		X	
TG18B22(BLU)	20A7P03	M	SPLICE			X		
TG18B22(ORN)	20A7P03	N	SPLICE			X		
TG18B22(WHT)	20A7P03	E	SPLICE			X		
TG18C22(BLU)	20A7P03	M	SPLICE		X		X	
TG18C22(ORN)	20A7P03	N	SPLICE		X		X	
TG18C22(WHT)	20A7P03	E	SPLICE		X		X	
TG19A22	20A1P04	L	END CAP		X	X	X	
TG20A22	20A1P05	W	END CAP		X	X	X	
TG21A22	20A1P06	C	20P324	B	X	X	X	
TG21B22	20A7P02	B	20J324	B	X		X	
TG22A22	20P324	A	20A1P06	Y	X		X	
TG22A22	20A7P02	A	20A1P06	Y		X		
TG22B22	20A7P02	A	20J324	A	X		X	
TG23A22(BLU)	20P328	K	20A1P06	J	X		X	
TG23A22(BLU)	20A2P03	Z	20A1P06	J		X		
TG23A22(WHT)	20P328	J	20A1P06	H	X		X	
TG23A22(WHT)	20A2P03	Y	20A1P06	H		X		
TG23B22(BLU)	20A2P03	Z	20J328	K	X		X	
TG23B22(WHT)	20A2P03	Y	20J328	J	X		X	
TG24A22	20A1J09	E	END CAP		X	X	X	
TG25A22(BLU)	20P328	M	20A1P06	D	X		X	
TG25A22(BLU)	20A2P03	X	20A1P06	D		X		
TG25A22(WHT)	20P328	L	20A1P06	C	X		X	
TG25A22(WHT)	20A2P03	W	20A1P06	C		X		
TG25B22(BLU)	20A2P03	X	20J328	M	X		X	
TG25B22(WHT)	20A2P03	W	20J328	L	X		X	
TG26A22	20A1P02	M	END CAP		X	X	X	
TG28A22(BLU)	20P325	G	20A1P06	L	X		X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG28A22(BLU)	20A2P02	<u>B</u>	20A1P06	<u>L</u>		X		
TG28A22(WHT)	20P325	F	20A1P06	<u>E</u>	X		X	
TG28A22(WHT)	20A1P06	<u>E</u>	20A2P02	<u>A</u>		X		
TG28B22(BLU)	20A2P02	<u>B</u>	20J325	<u>G</u>	X		X	
TG28B22(WHT)	20A2P02	<u>A</u>	20J325	<u>F</u>	X		X	
TG29A22	20A6P01	E	END CAP		X	X	X	
TG30A22(BLU)	20P325	J	20A1P06	<u>G</u>	X		X	
TG30A22(BLU)	20A2P02	Z	20A1P06	<u>G</u>		X		
TG30A22(WHT)	20P325	H	20A1P06	<u>W</u>	X		X	
TG30A22(WHT)	20A2P02	Y	20A1P06	<u>W</u>		X		
TG30B22(BLU)	20J325	J	20A2P02	<u>Z</u>	X		X	
TG30B22(WHT)	20A2P02	Y	20J325	<u>H</u>	X		X	
TG31A22	20A4P02	E	END CAP		X	X	X	
TG34A22(BLU)	22A4P313	<u>B</u>	20A1P06	<u>M</u>	X			
TG34A22(BLU)	22A4P13	U	20A1P06	<u>M</u>		X		
TG34A22(BLU)	20A1P06	M	22A4P313	<u>N</u>			X	
TG34A22(WHT)	22A4P313	<u>N</u>	20A1P06	<u>H</u>	X			
TG34A22(WHT)	22A4P13	V	20A1P06	<u>H</u>		X		
TG34A22(WHT)	20A1P06	<u>H</u>	22A4P313	<u>N</u>			X	
TG35A22	20J331	E	END CAP		X	X	X	
TG36A22(BLU)	20A1P06	N	SPLICE		X		X	
TG36A22(WHT)	20A1P06	<u>I</u>	SPLICE		X	X	X	
TG36B22(BLU)	22A4P313	Y	SPLICE		X		X	
TG36B22(BLU)	22A4P14	<u>K</u>	SPLICE			X		
TG36B22(WHT)	22A4P313	C	SPLICE		X		X	
TG36B22(WHT)	22A4P14	<u>M</u>	SPLICE			X		
TG36C22(BLU)	20J332	<u>K</u>	SPLICE		X	X	X	
TG36C22(WHT)	20J332	<u>J</u>	SPLICE		X	X	X	
TG37A22	20J1	J	END CAP		X	X	X	
TG37B22	20P1	J	END CAP		X	X	X	
TG38A22(BLU)	20A1P06	P	SPLICE		X			
TG38A22(WHT)	20A1P06	<u>J</u>	SPLICE		X	X	X	
TG38B22(BLU)	22A4P313	B	SPLICE		X		X	
TG38B22(BLU)	22A4P14	<u>I</u>	SPLICE			X		
TG38B22(WHT)	22A4P313	A	SPLICE		X		X	
TG38B22(WHT)	22A4P14	<u>J</u>	SPLICE			X		
TG38C22(BLU)	20J332	<u>I</u>	SPLICE		X	X	X	
TG38C22(WHT)	20J332	<u>H</u>	SPLICE		X	X	X	
TG39A22	20P324	R	END CAP		X		X	
TG39B22	20J324	R	END CAP		X		X	
TG40A22(BLU)	20A1P06	R	SPLICE		X	X	X	
TG40A22(WHT)	20A1P06	<u>K</u>	SPLICE		X	X	X	
TG40B22(BLU)	22A4P313	D	SPLICE		X			
TG40B22(BLU)	22A4P14	<u>N</u>	SPLICE			X		
TG40B22(BLU)	22A4P313	Z	SPLICE				X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG40B22(WHT)	22A4P313	<u>Z</u>	SPLICE		x			
TG40B22(WHT)	22A4P14	<u>P</u>	SPLICE			x		
TG40B22(WHT)	22A4P313	<u>D</u>	SPLICE				x	
TG40C22(BLU)	20J332	<u>N</u>	SPLICE		x	x	x	
TG40C22(WHT)	20J332	<u>M</u>	SPLICE		x	x	x	
TG41A22	20P324	<u>S</u>	END CAP		x		x	
TG41B22	20J324	<u>S</u>	END CAP		x		x	
TG43A22(BLU)	22A4P313	<u>X</u>	20A1P06	<u>T</u>	x		x	
TG43A22(BLU)	20A1P06	<u>T</u>	22A4P13	<u>Q</u>		x		
TG43A22(WHT)	22A4P313	<u>W</u>	20A1P06	<u>U</u>	x		x	
TG43A22(WHT)	22A4P13	<u>R</u>	20A1P06	<u>U</u>		x		
TG44A22	20A10P01	<u>V</u>	END CAP		x		x	
TG45A22(BLU)	22A4P13	<u>S</u>	20A1P06	<u>M</u>		x		
TG45A22(BLU)	22A4P313	<u>F</u>	20A1P06	<u>M</u>	x		x	
TG45A22(WHT)	22A4P313	<u>E</u>	20A1P06	<u>N</u>	x		x	
TG45A22(WHT)	20A1P06	<u>N</u>	22A4P13	<u>T</u>		x		
TG46A22	20A16P01	<u>E</u>	END CAP		x	x	x	
TG47A22(BLU)	22A4P313	<u>J</u>	20A1P06	<u>X</u>	x		x	
TG47A22(BLU)	22A4P13	<u>S</u>	20A1P06	<u>X</u>		x		
TG47A22(WHT)	22A4P313	<u>V</u>	20A1P06	<u>FF</u>	x		x	
TG47A22(WHT)	22A4P13	<u>T</u>	20A1P06	<u>FF</u>		x		
TG48A22	22A4P313	<u>T</u>	SHLD		x		x	
TG49A22(BLU)	22A4P313	<u>U</u>	20A1P06	<u>Y</u>	x			
TG49A22(BLU)	20A1P06	<u>Y</u>	22A4P13	<u>U</u>		x		
TG49A22(BLU)	22A4P313	<u>I</u>	20A1P06	<u>Y</u>			x	
TG49A22(WHT)	22A4P313	<u>I</u>	20A1P06	<u>GG</u>	x			
TG49A22(WHT)	20A1P06	<u>GG</u>	22A4P13	<u>V</u>		x		
TG49A22(WHT)	22A4P313	<u>U</u>	20A1P06	<u>GG</u>			x	
TG50A22	20J332	<u>E</u>	END CAP		x	x	x	
TG51A22(BLU)	22A4P313	<u>P</u>	SPLICE		x			
TG51A22(BLU)	22A4P313	<u>Q</u>	20A1P06	<u>Z</u>			x	
TG51A22(WHT)	22A4P313	<u>Q</u>	SPLICE		x			
TG51A22(WHT)	22A4P313	<u>P</u>	20A1P06	<u>AA</u>			x	
TG51B22(BLU)	20A1P06	<u>Z</u>	SPLICE		x	x		
TG51B22(WHT)	20A1P06	<u>AA</u>	SPLICE			x		
TG51C22(WHT)	22A4P311	<u>V</u>	SPLICE		x			
TG51C22(BLU)	22A4P311	<u>U</u>	SPLICE		x			
TG51C22(BLU)	19A5P1	<u>D</u>	SPLICE			x		
TG51C22(WHT)	19A5P1	<u>C</u>	SPLICE			x		
TG51D22	19J1	<u>J</u>	22A4P13	<u>R</u>		x		
TG51D22	SPLICE		19J1	<u>J</u>		x		
TG51D22(BLU)	19A5P1	<u>C</u>	SPLICE		x			
TG51D22(WHT)	19A5P1	<u>D</u>	SPLICE		x			
TG51E22(WHT)	19J1	<u>J</u>	SPLICE		x			

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
TG52A22	20P324	<u>V</u>	SHLD		x		x	
TG52B22	20J324	<u>V</u>	SHLD		x		x	
TG53A22	20A1P01	A	20P327	T	x	x	x	
TG53B22	20A5P03	AA	20J327	T	x	x	x	
TG53B22 #	20A3P01	G	20J327	T		x	x	
TG53A22	20A1P01	V	20P327	P	x	x	x	
TG54B22	20A5P03	GG	20J327	P	x	x	x	
TG55A22	20A1P01	W	20P327	U	x	x	x	
TG55B22	20A5P03	BB	20J327	U	x	x	x	
TG55B22 #	20A3P01	H	20J327	U		x		
TG57A22	20A1P01	<u>V</u>	20P327	V	x	x	x	
TG57B22	20A5P03	LL	20J327	V	x	x	x	
TG58A22	20A1P01	BB	20P327	N	x	x	x	
TG58B22	20A5P03	NN	20J327	N	x	x	x	
TG59A22	20A1P01	DD	20P327	S	x	x	x	
TG59B22	20A5P03	EE	20J327	S	x	x	x	
TG60A22	20A1P01	EE	20P327	X	x	x	x	
TG60B22	20A5P03	KK	20J327	X	x	x	x	
TG61A22	20A1P01	HH	20P327	Y	x	x	x	
TG61B22	20A5P03	JJ	20J327	Y	x	x	x	
TG62A22	20A1P01	B	20P328	X	x		x	
TG62A22	20A1P01	B	20A2P03	<u>E</u>		x		
TG62B22	20A2P03	<u>E</u>	20J328	X	x		x	
TG64A22	20A1P01	H	20P328	<u>B</u>	x		x	
TG64A22	20A2P01	H	20A2P03	GG		x		
TG64B22	20A2P03	GG	20J328	<u>B</u>	x			
TG66A22	20A1P01	K	20P325	<u>Q</u>	x			
TG66A22 # #	20A1P01	K	20A2P02	V		x		
TG66B22	20A2P02	V	20J325	<u>Q</u>	x		x	
TG67A22(BLU)	20A1P01	T	20P325	M	x		x	
TG67A22(BLU)	20A1P01	T	20A2P02	K		x		
TG67A22(WHT)	20A1P01	u	20P325	N	x		x	
TG67A22(WHT)	20A2P02	J	20A1P01	U		x		
TG67B22(BLU)	20A2P02	K	20J325	M	x		x	
TG67B22(WHT)	20A2P02	J	20J325	N	x		x	
TG68A22	20P324	JJ	END CAP		x		x	
TG68B22	20J324	JJ	END CAP		x		x	
TG69A22(BLU)	20A1P01	<u>M</u>	20P325	P	x		x	
TG69A22(BLU)	20A1P01	<u>M</u>	20A2P02	M		x		
TG69A22(WHT)	20A1P01	<u>N</u>	20P325	R	x		x	
TG69A22(WHT)	20A1P01	<u>N</u>	20A2P02	L		x		
TG69B22(BLU)	20A2P02	M	20J325	P	x		x	
TG69B22(WHT)	20A2P02	L	20J325	R	x		x	
TG70A22	20P325	LL	END CAP		x		x	
TG70B22	20J325	LL	END CAP		x		x	
TG71A22	20A1P01	<u>W</u>	20P325	<u>R</u>	x		x	
TG71A22 # #	20A1P01	<u>W</u>	20A2P02	U		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
TG71B22	20A2P02	U	20J325	R	x		x	
TG72A22(BLU)	20A1P01	Z	SPLICE		x	x	x	
TG72A22(WHT)	20A1P01	AA	SPLICE		x	x	x	
TG72B22(BLU)	20P325	S	SPLICE		x		x	
TG72B22(BLU)	20A2P02	x	SPLICE			x		
TG72B22(WHT)	SPLICE		20P325	T	x		x	
TG72B22(WHT)	SPLICE		20A2P02	W		x		
TG72C22(BLU)	20J331	GG	SPLICE		x	x	x	
TG72C22(WHT)	20J331	FF	SPLICE		x	x	x	
TG72D22(BLU)	20A2P02	X	20J325	S	x		x	
TG72D22(WHT)	20A2P02	W	20J325	T	x		x	
TG73A22	20P325	PP	END CAP		x		x	
TG73B22	20J325	PP	END CAP		x		x	
TG74A22	20A1P01	FF	20P325	S	x		x	
TG74A22 # #	20A2P02	T	20A1P01	FF		x		
TG74B22	20A2P02	T	20J325	S	x		x	
TG75A22	20A1P01	S	20P324		x		x	
TG75A22	20A1P01	S	20A7P02			x		
TG75B22	20A7P02	S	20J324		x		x	
TG76A22	20A1P01	S	20P324		x		x	
TG76A22	20A1P01	S	20A7P02			x		
TG76B22	20A7P02	S	20J324		x		x	
TG77A20	20A1P01	J	20P324		x		x	
TG77A20	20A1P01	J	20A7P02			x		
TG77B20	20A7P02	W	20J324		x		x	
TG78A22	20A1P01	K	20P324		x		x	
TG78A22	20A1P01	K	20A7P02			x		
TG78B22	20A7P02	K	20J324		x		x	
TG79A22	20A1F01	Q	20P326		x		x	
TG79A22	20A1P01	C	20A5P02	K		x		
TG79B22	20A5P02	K	20J326	P	x		x	
TG80A22	20A1P01	Q	SPLICE		x	x	x	
TG80B22	20P326	R	SPLICE		x		x	
TG80B22	20A5P02	W	SPLICE			x		
TG80C22	20J332	Z	SPLICE		x	x	x	
TG80D22	20A5P02	W	20J326	R	x		x	
TG81A22	20A1P01	R	SPLICE		x	x	x	
TG81A22 #	END CAP	I	SPLICE			x		
TG81B22	20P326	S	SPLICE		x		x	
TG81B22	20A5P02	B	SPLICE			x		
TG81C22	20J332	Y	SPLICE		x	x	x	
TG81D22	20A5P02	B	20J326	S	x		x	
TB82A22	20A1P01	S	SPLICE		x	x	x	
TG82A22 #	END CAP	I	SPLICE			x		
TG82B22	20P326	T	SPLICE		x		x	
TG82B22	20A5P02	D	SPLICE			x		
TG82C22	20J332	Z	SPLICE		x	x	x	
TG82D22	20A5P02	D	20J326	T	x		x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TAG83A22	20A1P01	<u>I</u>	SPLICE		X	X	X	
TG83B22	20P326	U	SPLICE		X		X	
TG83B22	20A5P02	E	SPLICE			X		
TG83C22	20J332	A	SPLICE		X	X	X	
TG83D22	20A5P02	E	20J326	U	X		X	
TG84A22(BLU)	20A1P01	E	20A16P01	U	X	X	X	
TG84A22(ORN)	20A1P01	<u>X</u>	20A16P01	T	X	X	X	
TG84A22(WHT)	20A1P01	<u>Y</u>	20A16P01	S	X	X	X	
TG85A22	20P325	MM	END CAP		X		X	
TG85B22	20J325	MM	END CAP		X		X	
TG86A22	20A20P2	M	END CAP		X		X	
TG87A22	20A1P01	CC	20A16P01	R	X	X	X	
TG90A22(BLU)	20J332	HH	20A1P05	<u>S</u>	X	X	X	
TG90A22(ORN)	20J332	GG	20A1P05	<u>R</u>	X	X	X	
TG90A22(WHT)	20J332	D	20A1P05	A	X	X	X	
TG91A22	20P327	MM	END CAP		X	X	X	
TG91B22	20J327	MM	END CAP		X	X	X	
TG92A22	20P327	PP	END CAP		X	X	X	
TG92B22	20J327	PP	END CAP		X	X	X	
TG93A22(BLU)	20A1P05	<u>N</u>	20A1P04	T	X	X	X	
TG93A22(ORN)	20A1P05	<u>M</u>	20A1P04	U	X	X	X	
TG93A22(WHT)	20A1P05	<u>C</u>	20A1P04	S	X	X	X	
TG93B22	20J327	LL	END CAP			X		
TG94A22	20J2	J	END CAP		X	X	X	
TG94B22	20P2	J	END CAP		X	X	X	
TG95A22	20P326	<u>B</u>	END CAP		X		X	
TG95B22	20J326	<u>B</u>	END CAP		X		X	
TG96A22(BLU)	20P328	A	20A1P04	Z	X		X	
TG96A22(BLU)	20A2P03	<u>S</u>	20A1P04	Z		X		
TG96A22(ORN)	20P328	C	20A1P04	E	X		X	
TG96A22(ORN)	20A2P03	I	20A1P04	E		X		
TG96A22(WHT)	20P328	B	20A1P04	<u>S</u>	X		X	
TG96A22(WHT)	20A2P03	<u>R</u>	20A1P04	<u>S</u>		X		
TG96B22(BLU)	20A2P03	<u>S</u>	20J328	A	X		X	
TG96B22(ORN)	20A2P03	I	20J328	C	X		X	
TG96B22(WHT)	20A2P03	R	20J328	B	X		X	
TG97A22	20P326	C	SHLD		X		X	
TG97B22	20J326	<u>C</u>	SHLD		X		X	
TG98A22	20P327	LL	END CAP		X	X	X	
TG98B22	20J327	LL	END CAP		X		X	
TG99A20(BLU)	20P328	H	20A1P04	<u>E</u>	X		X	
TG99A20(BLU)	20A2P03	EE	20A1P04	<u>E</u>		X		
TG99A20(ORN)	20P328	F	20A1P04	EE	X		X	
TG99A20(ORN)	20A2P03	FF	20A1P04	EE		X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG99A20(WHT)	20P328	G	20A1P04	<u>V</u>	x		x	
TG99A20(WHT)	20A2P03	DD	20A1P04	<u>V</u>		x		
TG99B20(BLU)	20A2P03	EE	20J328	H	x		x	
TG99B20(ORN)	20A2P03	FF	20J328	F	x		x	
TG99B20(WHT)	20A2P03	DD	20J328	G	x		x	
TG100A22	20P328	<u>N</u>	SHLD		x		x	
TG100B22	20J328	<u>N</u>	SHLD		x		x	
TG101A22	20P328	E	SHLD		x		x	
TG101B22	20J328	E	SHLD		x		x	
TG102A16(BLU)	20P328	E	20A1P04	DD	x		x	
TG102A16(BLU)	20A1P04	DD	SPLICE			x		
TG102A16(ORN)	20P328	Q	20A1P04	<u>Q</u>	x		x	
TG102A16(ORN)	20A1P04	Q	SPLICE			x		
TG102A16(WHT)	20P328	<u>G</u>	20A1P04	CC	x		x	
TG102A16(WHT)	20A1P04	CC	SPLICE			x		
TG102B16(BLU)	20J328	E	SPLICE		x		x	
TG102B16(ORN)	20J328	Q	SPLICE		x		x	
TG102B16(WHT)	20J328	<u>G</u>	SPLICE		x		x	
TG102B22(BLU)	20A2P03	BB	SPLICE			x		
TG102B22(ORN)	20A2P03	CC	SPLICE			x		
TG102B22(WHT)	20A2P03	AA	SPLICE			x		
TG102C22(BLU)	20A2P03	BB	SPLICE		x		x	
TG102C22(ORN)	20A2P03	CC	SPLICE		x		x	
TG102C22(WHT)	20A2P03	AA	SPLICE		x		x	
TG103A22	20A7P01	<u>D</u>	SHLD		x	x	x	
TG104A22	20A7P02	E	END CAP		x	x	x	
TG105A22(BLU)	20P328	D	20A1P04	<u>X</u>	x		x	
TG105A22(BLU)	20A2P03	<u>V</u>	20A1P04	<u>X</u>		x		
TG105A22(WHT)	20P328	E	20A1P04	FF	x		x	
TG105A22(WHT)	20A2P03	<u>U</u>	20A1P04	FF		x		
TG105B22(BLU)	20J328	D	20A2P03	<u>V</u>	x		x	
TG105B22(WHT)	20J328	E	20A2P03	<u>U</u>	x		x	
TG106A22	20A7P03	<u>D</u>	SHLD		x	x	x	
TG107A22(BLU)	20P325	U	20A1P04	F	x		x	
TG107A22(BLU)	20A2P02	S	20A1P04	F		x		
TG107A22(WHT)	20P325	V	20A1P04	<u>A</u>	x		x	
TG107A22(WHT)	20A1P04	<u>A</u>	20A2P02	R		x		
TG107B22(BLU)	20A2P02	S	20J325	U	x		x	
TG107B22(WHT)	20J325	V	20A2P02	R	x		x	
TG108A22	20A5P02	Y	END CAP		x	x	x	
TG109A22(BLU)	20P325	X	20A1P04	K	x		x	
TG109A22(BLU)	20A2P02	EE	20A1P04	K		x		
TG109A22(WHT)	20P325	W	20A1P04	J	x		x	
TG109A22(WHT)	20A1P04	J	20A1P02	DD		x		
TG109B22(BLU)	20A2P02	EE	20J325	X	x		x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
TG109B22(WHT)	20A2P02	DD	20J325	W	x		x	
TG110A22	20A5P01	Y	END CAP		x	x	x	
TG111A22(BLU)	20A1P05	E	20P325	Z	x		x	
TG111A22(BLU)	20A2P02	R	20A1P05	E		x		
TG111A22(WHT)	20P325	Y	20A1P05	D	x		x	
TG111A22(WHT)	20A2P02	Q	20A1P05	D		x		
TG111B22(BLU)	20A2P02	R	20J325	Z	x		x	
TG111B22(WHT)	20A2P02	Q	20J325	Y	x		x	
TG113A22(BLU)	20A1P04	D	20P327	J	x	x	x	
TG113A22(WHT)	20P327	K	20A1P04	U	x	x	x	
TG113B22(BLU)	20A2P02	T	20J327	J	x	x	x	
TG113B22(WHT)	20A2P02	S	20J327	K	x	x	x	
TG114A22	20A5P03	Z	END CAP		x	x	x	
TG115A22(BLU)	20P325	D	20A1P04	W	x		x	
TG115A22(BLU)	20A1P04	W	20A2P02	E		x		
TG115A22(WHT)	20P325	C	20A1P04	H	x		x	
TG115A22(WHT)	20A2P02	D	20A1P04	H		x		
TG115B22(BLU)	20A2P02	E	20J325	D	x		x	
TG115B22(WHT)	20A2P02	E	20J325	C	x		x	
TG116A22	20A5P04	E	END CAP		x	x	x	
TG117A22(BLU)	20P325	E	20A1P04	M	x		x	
TG117A22(BLU)	20A1P04	M	20A2P02	H		x		
TG117A22(WHT)	20P325	F	20A1P04	N	x		x	
TG117A22(WHT)	20A1P04	N	20A2P02	G		x		
TG117B22(BLU)	20A2P02	H	20J325	E	x		x	
TG117B22(WHT)	20A2P02	G	20J325	F	x		x	
TG118A22	20A2P01	E	END CAP		x	x	x	
TG119A20(BLU)	20P324	F	20A1P04	P	x		x	
TG119A20(BLU)	20A7P01	Y	20A1P04	P		x		
TG119A20(ORN)	20A1P04	R	20P324	N	x		x	
TG119A20(ORN)	20A7P01	S	20A1P04	R		x		
TG119A20(WHT)	20A1P04	V	20P324	E	x		x	
TG119A20(WHT)	20A7P01	X	20A1P04	V		x		
TG119B20(BLU)	20A7P01	Y	20J324	F	x		x	
TG119B20(ORN)	20A7P01	S	20J324	N	x		x	
TG119B20(WHT)	20A7P01	X	20J324	E	x		x	
TG120A22	20A2P02	E	END CAP		x	x	x	
TG121A22	20A2P03	E	END CAP		x	x	x	
TG122A22	20A1P04	J	20P324	G	x		x	
TG122A22	20A7P02	N	20A1P04	J		x		
TG122B22	20A7P02	I	20J324	G	x		x	
TG123A22	20P324	H	20A1P04	Z	x		x	
TG123A22	20A7P02	R	20A1P04	Z		x		
TG123B22	20A7P02	R	20J324	H	x		x	
TG124A22	20A2P04	E			x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
TG126A22	20A4P02	K	20A1P05	P	x	x	x	
TG127A22(BLU)	20A1P05	C	SPLICE		x	x	x	
TG127A22(WHT)	20A1P05	B	SPLICE		x	x	x	
TG127B22(BLU)	20P325	H	SPLICE		x		x	
TG127B22(BLU)	20A2P02	AA	SPLICE			x		
TG127B22(WHT)	20P325	G	SPLICE		x		x	
TG127B22(WHT)	20A2P02	Z	SPLICE			x		
TG127C22(BLU)	20J331	CC	SPLICE		x	x	x	
TG127C22(WHT)	20J331	BB	SPLICE		x	x	x	
TG127D22(BLU)	20A2P02	AA	20J325	H	x		x	
TG127D22(IVHT)	20A2P02	Z	20J325	G	x		x	
TG128A22	20J330	E	END CAP		x	x	x	
TG129A22(BLU)	20A1P05	A	SPLICE		x	x	x	
TG129A22(ORN)	20A1P05	B	SPLICE		x	x	x	
TG129A22(WHT)	20A1P05	H	SPLICE		x	x	x	
TG129B22(BLU)	20P325	HH	SPLICE		x		x	
TG129B22(BLU)	20A2P02	I	SPLICE			x		
TG129B22(ORN)	20P325	W	SPLICE		x		x	
TG129B22(ORN)	20A2P02	K	SPLICE			x		
TG129B22(WHT)	20P325	V	SPLICE		x		x	
TG129B22(WHT)	20A2P02	J	SPLICE			x		
TG129C22(BLU)	20J332	L	SPLICE		x	x	x	
TG129C22(ORN)	20J332	K	SPLICE		x	x	x	
TG129C22(WHT)	20J332	M	SPLICE		x	x	x	
TG129C22(BLU) #	END CAP		SPLICE			x		
TG129C22(ORN) #	END CAP		SPLICE			x		
TG129C22(WHT) #	END CAP		SPLICE			x		
TG129D22(BLU)	20A2P02	I	20J325	HH	x		x	
TG129D22(ORN)	20A2P02	K	20J325	W	x		x	
TG129D22(WHT)	20A2P02	J	20J325	V	x		x	
TG131A22(BLU)	20A1P05	H	SPLICE		x	x	x	
TG131A22(ORN)	20A1P05	I	SPLICE		x	x	x	
TG131A22(WHT)	20A1P05	T	SPLICE		x	x	x	
TG131B22(BLU)	20J332	LL	SPLICE		x	x	x	
TG131B22(ORN)	20J332	KK	SPLICE		x	x	x	
TG131B22(WHT)	20J332	JJ	SPLICE		x	x	x	
TG131C22(BLU)	20P325	K	SPLICE		x		x	
TG13122(BLU)	20A2P02	W	SPLICE			x		
TB131C22(ORN)	20P325	J	SPLICE		x		x	
TG131C22(ORN)	20A2P02	Y	SPLICE			x		
TG131C22(WHT)	20P325	I	SPLICE		x		x	
TG131C22(WHT)		X	SPLICE			x		
TG131D22(BLU)	20A2P02	W	20J325	K	x		x	
TG131D22(ORN)		Y	20J325	J	x		x	
TG131D22(WHT)	20A2P02	X	20J325	I	x		x	
TG134A22(BLU)	20P325	N	20A1P05	X	x		x	
TG134A22(BLU)	20A2P02	H	20A1P05	X		x		
TG134A22(ORN)	20A1P05	K	20P325	P	x		x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG134A22(ORN)	20A1P05	K	20A2P02	G		X		
TG134A22(WHT)	20A1P05	T	20P325	M	X		X	
TG134A22(WHT)	20A2P02	F	20A1P05	T		X		
TG134622(BLU)	20A2P02	H	20J325	N	X		X	
TG134B22(ORN)	20A2P02	G	20J325	P	X		X	
TG134622(WHT)	20A2P02	F	20J325	M	X		X	
TG137A22(BLU)	20A1P05	Z	SPLICE		X	X	X	
TG137A22(WHT)	20A1P05	Y	SPLICE		X	X	X	
TG137622(BLU)	20P325	U	SPLICE		X		X	
TG137622(BLU)	20A2P02	CC	SPLICE			X		
TG137B22(WHT)	20P325	T	SPLICE		X		X	
TG137B22(WHT)	20A2P02	BB	SPLICE			X		
TG137C22(BLU)	20J331	EE	SPLICE		X	X	X	
TG137C22(WHT)	20J331	DD	SPLICE		X	X	X	
TG137D22(BLU)	20A2P02	CC	20J325	U	X		X	
TG137D22(WHT)	20A2P02	BB	20J325	T	X		X	
TG139A20(BLU)	20A1P05	M	20P324	H	X		X	
TG139A20(BLU)	20A7P03	X	20A1P05	M		X		
TG139A20(WHT)	20A1P05	K	20P324	G	X		X	
TG139A20(WHT)	20A7P03	W	20A1P05	K		X		
TG139B20(BLU)	20A7P03	X	20J324	H	X		X	
TG139B20(WHT)	20A7P03	W	20J324	G	X		X	
TG141A22(BLU)	20A20P2	H	SPLICE		X	X	X	
TG141A22(WHT)	20A20P2	G	SPLICE		X	X	X	
TG141B22(BLU)	20A1P05	L	SPLICE		X	X	X	
TG141B22(WHT)	20A1P05	D	SPLICE		X	X	X	
TG141C22(BLU)	20J331	Q	SPLICE		X	X	X	
TG141C22(WHT)	20J331	P	SPLICE		X	X	X	
TG142A22	20A1J09	K	20A4P02	HH		X		
TG143A22	20A1J09	L	20A4P02	GG		X		
TG144A22	20A4P02	JJ	20A1J09	M		X		
TG145A22(BLU)	20A20P2	F	SPLICE		X	X	X	
TG145A22(WHT)	20A20P2	E	SPLICE		X	X	X	
TG145B22(BLU)	20A1P05	E	SPLICE		X	X	X	
TG145B22(WHT)	20A1P05	P	SPLICE		X	X	X	
TG145C22(BLU)	20J331	N	SPLICE		X	X	X	
TG145C22(WHT)	20J331	M	SPLICE		X	X	X	
TG147A22	20A1P05	N	20A1J09	W	X	X	X	
TG148A22	20P328	K	20A1P05	S	X		X	
TG148A22	20A2P04	J	20A1P05	S		X		
TG148B22	20J328	K	20A2P04	J	X		X	
TG149A20	20A1P05	U	20P324	M	X		X	
TG149A20	20A7P02	F	20A1P05	U		X		
TG149B20	20A7P02	F	20J324	M	X		X	
TG150A22	20P324	N	20A1P05	V	X		X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG150A22	20A7P02	C	20A1P05	V		X		
TG150B22	20J324	N	20A7P02	C	X		X	
TG151A22	20P324	P	20A1P05	J	X		X	
TG151A22	20A7P02	D	20A1P05	J		X		
TG151B22	20A7P02	D	20J324	P	X		X	
TG153A22(BLU)	20A1P03	X	20A1J09	B	X	X	X	
TG153A22(WHT)	20A1P03	A	20A1J09	A	X	X	X	
TG155A22	19XK87	D2	20A1J09	F	X		X	
TG156A22	19XK87	C2	20A1J09	G	X			
TG156A22	22A5P1	204	20A1J09	G				
TG157A20	SPLICE		SPLICE				X	
TG157A22	SPLICE		SPLICE		X			
TG157B22	20A1J09	H	19XK86	A2	X			
TG157B22	SPLICE		20A1J09	H	X		X	
TG157C20	20A1J09	J	SPLICE				X	
TG157C22	SPLICE		20A1J09	J	X		X	
TG157C22	20A1J09	J	19XK86	A2	X			
TG158A22	19XK87	A2	20A1J09	Y	X		X	
TG158A22	22A5P1	198	20A1J09	Y				
TG158C22	20J332	NN	19TB4	K2	X			
TG159A20	SPLICE		SPLICE				X	
TG159A22	20A1J09	Z	SPLICE		X			
TG160A22(BLU)	20P324	L	20A1J09	J	X		X	
TG160A22(BLU)	20A7P03	E	20A1J09	J				
TG160A22(WHT)	20A1J09	H	20P324	M	X		X	
TG160A22(WHT)	20A7P03	R	20A1J09	H				
TG160B22(BLU)	20A7P03	E	20J324	L	X		X	
TG160B22(WHT)	20A7P03	R	20J324	M	X		X	
TG162A22	20P325	BB	20A1J09	X	X		X	
TG162A22	20AP01	P	20A1J09	X				
TG162B22	20J325	BB	20A2P01	P	X		X	
TG163A22(BLU)	20P328	S	20A1J09	P	X		X	
TG163A22(BLU)	16TB1	J7	20A1J09	P				
TG163A22(WHT)	20P328	R	20A1J09	V	X		X	
TG163A22(WHT)	16TB1	K6	20A1J09	V				
TG163B22(BLU)	20A2P04	H	20J328	S	X		X	
TG163B22(BLU)	16TB1	E7	20A2P04	H				
TG163B22(WHT)	20A2P04	S	20J328	R	X		X	
TG163B22(WHT)	16TB1	J6	20A2P04	S				
TG167A20(BLU)	20P324	W	20A1P03	C	X		X	
TG167A20(BLU)	20A7P01	D	20A1P03	C				
TG167A20(ORN)	20P324	Y	20A1P03	Z	X		X	
TG167A20(ORN)	20A7P01	C	20A1P03	Z				
TG167A20(WHT)	20P324	X	20A1P03	B	X		X	

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WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	E	M	P	
TG198A22	5A1J1	<u>J</u>	20S1	6		x		
TG198B22	22A4P15	<u>K</u>	5A1P1	J		x		
TG199A22	20A6P01	<u>F</u>	19TB4	D9	x	x	x	
TG200A22	20A6P01	<u>K</u>	SPLICE		x		x	
TG200A22	19TB4	G10	20A6P01	K		x		
TG200B22	20J332	EE	SPLICE		x		x	
TG200B22	20J332	EE	19TB4	A10		x		
TG200C22	22A4P313	<u>N</u>	SPLICE		x		x	
TG200C22	22A4P15	<u>M</u>	19TB4	C10		x		
TG200D22	SPLICE		5A1P1	<u>B</u>	x			
TG200D22	5A1P1	<u>B</u>	19TB4	H10		x		
TG200E22	5A1P1	<u>B</u>	20S1		x		x	
TG200E22	5A1J1	<u>B</u>	20S1	2		x		
TG200E22	20S1		5A1J1	<u>B</u>			x	
TG200F22	20XK1	A2	SPLICE		x			
TG200F22	22A5P1	64	19TB4	D10		x		
TG200G22	SPLICE		5A1P1	B	x			
TG200G22	19A5P2	A	SPLICE		x			
TG200G22	19TB4	B10	19A5P2	A		x		
TG200H22	SPLICE		SPLICE		x			
TG200H22	20S1	2	20S1	5		x		
TG200J22	SPLICE		19J1	K	x			
TG200J22	19J1	K	19TB4	E10		x		
TG201A22	22A4P313	K	SPLICE		x			
TG201A22	20A6P01		SPLICE			x		
TG201A22	22A4P313	K	19TB4	J8			x	
TG201B22	SPLICE		19TB4	K8	x	x	x	
TG201C22	20J332	PP	19TB4	D8	x	x	x	
TG201D22	20A6P01	L	SPLICE		x		x	
TG201D22	5A1P1	<u>C</u>	SPLICE			x		
TG201E22	5A1P1	<u>C</u>	SPLICE		x			
TG201E22	5A1J1	<u>C</u>	20S1	1		x		
TG201E22	5A1P1	<u>B</u>	SPLICE				x	
TG201F22	5A1J1	<u>C</u>	20S1		x		x	
TG201F22	20S1	1	20S1	3		x		
TG201F22	19TB4	J8	SPLICE		x			
TG201G22	19J1	N	SPLICE		x			
TG202A22	19TB4	F8	SPLICE		x			
TG202A22	22A4P313	M	SPLICE		x			
TG202A22	22A4P15	<u>N</u>	SPLICE			x		
TG202A22	19TB4	F8	22A4P313	M			x	
TG202B22	20A6P01	M	19TB4	G8	x	x	x	
TG202C22	19TB4	F8	SPLICE			x		
TG202D22	19J1	L	SPLICE		x	x		
TG202D22	19J1	L	22A4P15	<u>N</u>		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
TG203A22	20P326	A	10A6P01	N	x		x	
TG203A22	20A5P01	<u>D</u>	20A6P01	N		x		
TG203B22	20A5P01	<u>D</u>	20J326	A	x		x	
TG204A22	20P327	C	20A6P01	P	x	x	x	
TG204B22	SPLICE		20J327	C	x	x	x	
TG204C22	20A5P01	W	SPLICE		x	x	x	
TG204D22	SPLICE		20A2P01	<u>H</u>	x	x	x	
TG205A22(BLU)	20P327	<u>A</u>	20A6P01	S	x	x	x	
TG205A22(WHT)	20P327	Z	20A6P01	R	x		x	
TG205A22(WHT)	20P327	N	20A6P01	R		x		
TG205B22(BLU)	20A2P04	<u>J</u>	20J327	<u>A</u>	x	x	x	
TG205B22(WHT)	20A2P04	<u>I</u>	20J327	Z	x	x	x	
TG206A22	19TB4	A8	19TB4	A19	x	x		
TG207A22(BLU)	20P327	<u>C</u>	20A6P01	U	x	x	x	
TG207A22(WHT)	20P327	<u>B</u>	20A6P01	T	x	x	x	
TG207B22(BLU)	20A2P04	<u>M</u>	20J327	<u>C</u>	x	x	x	
TG207B22(WHT)	20A2P04	<u>K</u>	20J327	B	x	x	x	
TG208A22	20XK1	A3	19TB4	F19	x			
TG208A22	22A5P1	65	19TB4	F19		x		
TG209A22(BLU)	20P327	<u>E</u>	20A6P01	W	x	x	x	
TG209A22(WHT)	20P327	<u>D</u>	20A6P01	V	x	x	x	
TG209A22(WHT) #	SPLICE		20A6P01	V		x		
TG209B22(BLU)	20A2P04	<u>P</u>	20J327	<u>E</u>	x	x	x	
TG209B22(WHT)	20A2P04	<u>N</u>	20J327	<u>D</u>	x	x	x	
TG210A22N	20K1	X2	GND		x			
TG210A22N	22A5P1	61	GND			x		
TG211A22(BLU)	20P327	G	20A6P01	Y	x	x	x	
TG211A22(WHT)	20P327	<u>E</u>	20A6P01	X	x	x	x	
TG211A22(WHT)#	SPLICE		20A6P01	X		x		
TG211B2(BLU)	20A2P04	<u>R</u>	20J327	<u>G</u>	x	x	x	
TG211B22(WHT)	20A2P04	<u>Q</u>	20J327	<u>E</u>	x	x	x	
TG212A22	5A1P1	<u>H</u>	SPLICE			x		
TG212B22	5A1J1	<u>H</u>	20S1	4		x		
TG212C22	19J1	N	22A4P15	<u>Q</u>		x		
TG212C22	SPLICE		19J1	N		x		
TG212D22	22A4P15	<u>Q</u>	SPLICE		x	x		
TG213A22	20P327	<u>D</u>	20A6P01	Z	x	x	x	
TG213B22	20A2P01	<u>F</u>	20J327	D	x	x	x	
TG215A22	20P324	A	20XK1	X1	x			
TG215A22	20A7P03	R	22A5P1	62		x		
TG215B22	20A7P03	R	20J324	A	x			
TG220A22	20P324	T	20A6P01	<u>G</u>	x		x	
TG220A22	20A7P02	<u>Y</u>	20A6P01	<u>G</u>		x		
TG220B22	20A7P02	Y	20J324	T	x		x	
TG221A22	20P324	U	20A6P01	<u>H</u>	x		x	
TG221A22	20A7P02	V	20A6P01	<u>H</u>		x		
TG221B22	20A7P02	V	20J324	<u>U</u>	x		x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG222A22	20P324	V	20A6P01	J	x		x	
TG222A22	20A7P02	M	20A6P01	J		x		
TG222B22	20A7P02	M	20J324	V	x		x	
TG224A22	20J1	G	20A4P01	M	x	x	x	
TG224B22	20P8J01	G	20P1	G	x	x	x	
TG225A22	20J1	I	20A4P01	N	x	x	x	
TG225B22	20P1	I	20P8J01	I	x	x	x	
TG226A22	20A4P01	P	SPLICE		x	x	x	
TG226B22	20A16P01	D	SPLICE		x	x	x	
TG226C22	20J1	F	SPLICE		x	x	x	
TG226D22	20P8J01	F	20P1	E	x	x	x	
TG227A22	20J1	H	20A4P01	R	x	x	x	
TG227B22	20P8J01	H	20P1	H	x	x	x	
TG228A22	20A4P01	S	20J2	I	x	x	x	
TG228B22	20P2	I	20S8J01	I	x	x	x	
TG229A22	20J2	G	20A4P01	T	x	x	x	
TG229B22	20P2	G	20S8J01	g	x	x	x	
TG230A22	20J2	H	20A4P01	U	x	x	x	
TG230B22	20P2	H	20S8J01	h	x	x	x	
TG230B22	20P2	H	20S8J01	h	x	x	x	
TG231A22	20J2	F	20A4P01	V	x	x	x	
TG231B22	20P2	F	20S8J01	F	x	x	x	
TG232A22	20A4P01	W	20A16P01	W	x	x	x	
TG234A22	20A4P01	Y	19TB4	C1	x	x	x	
TG235A22	SPLICE		20A4P01	A	x	x	x	
TG236A22	20A4P01	Z	19K80	F3	x		x	
TG236A22	22A5P2	54	20A4P01	Z		x		
TG237A22(BLU)	20A4P01	C	GND				x	
TG237A22(WHT)	8TB5	J6	20A4P01	B	x	x	x	
TG237A22N(BLU)	20A4P01	C	GND		x	x		
TG239A20	20A5P01	U	20J326	C	x		x	
TG239A20	20A16P01	F	SPLICE			x		
TG239B20	20P326	C	SPLICE		x		x	
TG239B20	20A5O01	U	SPLICE			x		
TG239B20 #	SPLICE		SPLICE			x		
TG239C20	20J332	AA	SPLICE		x	x	x	
TG239D20	21XK6	X1	SPLICE				x	
TG239D20****	SPLICE		3428Z1P01	1		x		
TG239E20	20A16P01	F	SPLICE		x		x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
TG240A22	20P326	J	20A4P01		X		X	
TG240A22	20A5P02	V	20A4P01			X		
TG240A22 #	20A5P02	V	SPLICE			X		
TG240B22	20A5P02	V	20J326		X		X	
TG241A22	20P326	K	20A4P01		X		X	
TG241A22	20A5P02	<u>E</u>	20A4P01			X		
TG241B22	20A5P02	<u>E</u>	20J326		X		X	
TG242A22	20P326	L	20A4P01		X		X	
TG242A22	20A5P02	H	20A4P01			X		
TG242B22	20A5P02	<u>H</u>	20J326		X		X	
TG243A22	20P326	M	20A4P01		X		X	
TG243A22	20A5P02	J	20A4P01			X		
TG243B22	20A5P02	<u>J</u>	20J326		X		X	
TG244A22	20P324	GG	20A4P01		X		X	
TG244A22	20A7P01	F	20A4P01			X		
TG244B22	20A7P01	F	20J324		X		X	
TG245A20	20A4P01	<u>K</u>	SPLICE		X	X		
TG245A20	20P324	W	20A4P01				X	
TG245B20	20P324	W	SPLICE		X			
TG245B20	20A7P02	S	SPLICE			X		
TG245B20	20A7P02	S	20J324				X	
TG245C20	20A7P02	S	20J324		X			
TG245C20	22A5P1	27	SPLICE			X		
TG245D20	20K94	A1	SPLICE		X			
TG247A20	20P324	Y	20A4P01		X		X	
TG247A20	20A7P02	<u>I</u>	20A4P01			X		
TG247B20	20A7P02	<u>I</u>	20J324		X		X	
TG249A16(BLU)	20P323	R	20A4P01		X		X	
TG249A16(BLU)	20A7P03	<u>G</u>	20A4P01	R		X		
TG249A16(WHT)	20P323	P	20A4P01	M	X		X	
TG249A16(WHT)	20A7P03	<u>I</u>	20A4P01	M		X		
TG249B16(BLU)	20A7P03	<u>G</u>	20J323	R	X		X	
TG249B16(WHT)	20A7P03	<u>I</u>	20J323	P	X		X	
TG251A22	20A4P02	B	SPLICE		X	X	X	
TG251B22	SPLICE		SPLICE		X	X	X	
TG251C22	20J332	FF	SPLICE		X	X	X	
TG251D22	19TB4	G6	SPLICE		X	X	X	
TG251E22	19A5P2	C	SPLICE		X			
TG251E22	19A5P2	C	22A4P15	P		X		
TG251E22	19XK87	X1	SPLICE				X	
TG251F22	22A4P313	L	SPLICE		X		X	
TG251F22	22A4P15	<u>P</u>	SPLICE			X		
TG251G22	SPLICE		19J1	M		X		
TG252A22	20A16P01	V	20A4P02	C	X	X	X	
TG253A20	20A16P01	<u>A</u>	20A4P01	D	X	X	X	
TG253B20	20A16J01A	F	20A16J01A	A		X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG255A22	20A4P02	F	19TB4	F10	x		x	
TG255A22	20A4P02	F	16TB1	F12		x		
TG256A22	20A4P02	G	19TB4	A12	x		x	
TG256A22	20A4P02	G	16TB1	A14		x		
TG257A22	20A4P02	H	19TB4	G10	x		x	
TG257A22	20A4P02	H	16TB1	G12		x		
TG258A22	20A4P02	J	19TB4	B12	x		x	
TG258A22	20A4P02	J	16TB1	B14		x		
TG259A22	20A4P02	K	19TB4	H10	x		x	
TG259A22	20A4P02	K	16TB1	H12		x		
TG260A22	20A4P02	L	19TB4	C12	x		x	
TG260A22	20A4P02	L	16TB1	C14		x		
TG261A22	20A4P02	M	19TB4	J10	x		x	
TG261A22	20A4P02	M	16TB1	J12		x		
TG262A22	20A4P02	N	19TB4	D12	x		x	
TG262A22	20A4P02	N	16TB1	D14		x		
TG263A22	20A4P02	P	20J1	<u>K</u>	x	x	x	
TG263B22	20P8J01	<u>K</u>	20P1	<u>K</u>	x	x	x	
TG264A22	20A4P02	R	20J1	<u>N</u>	x	x	x	
TG264B22	20P8J01	<u>N</u>	20P1	<u>N</u>	x	x	x	
TG265A22	20A4P02	S	20J1	<u>J</u>	x	x	x	
TG265B22	20P8J01	<u>J</u>	20P1	<u>J</u>	x	x	x	
TG266A22	20A4P02	T	20J1	<u>M</u>	x	x	x	
TG266B22	20P8J01	<u>M</u>	20P1	<u>M</u>	x	x	x	
TG267A22	20A4P02	U	20J2	<u>N</u>	x	x	x	
TG267B22	20P2	<u>N</u>	20S8J01	<u>N</u>	x	x	x	
TG268A22	20A4P02	V	20J2	<u>K</u>	x	x	x	
TG268B22	20P2	<u>K</u>	20S8J01	<u>K</u>	x	x	x	
TG269A22	20A4P02	W	20J2	<u>m</u>	x	x	x	
TG269B22	20P2	<u>M</u>	20S8J01	<u>M</u>	x	x	x	
TG270A22	20A4P02	X	20J2	<u>J</u>	x	x	x	
TG270B22	20P2	<u>J</u>	20S8J01	<u>J</u>	x	x	x	
TG271A20	20A4P02	Y	SPLICE		x	x	x	
TG271B20	SPLICE		SPLICE		x	x	x	
TG271C20	20J331	<u>V</u>	SPLICE		x	x	x	
TG271D20	20A20P2	<u>C</u>	SPLICE		x	x	x	
TG271E20	20P327	NN	SPLICE		x	x	x	
TG271F20	20A2P04	G	20J327	NN	x	x	x	
TG271G20	20A6P01	<u>B</u>	SPLICE		x	x		
TG271G20	SPLICE		3XK4	X1			x	
TG271H20	20A6P01	<u>B</u>	SPLICE				x	
TG272A22	20A4P02	<u>A</u>	20P327	CC	x	x	x	
TG272B22	20A2P04	<u>U</u>	20J327	CC	x	x	x	
TG273A22	20P327	DD	22A5P1	28		x		
TG273A22	20P327	DD	20A4P02	Z			x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
TG273B22	20A2P04	<u>T</u>	20J327	DD	X	X	X	
TG274A22	20A4P02	<u>B</u>	20P327	EE	X	X	X	
TG274B22	20A2P04	<u>V</u>	20J327	EE	X	X	X	
TG275A22	20A4P02	<u>C</u>	20P327	FF	X	X	X	
TG275B22	20A2P04	<u>W</u>	20J327	FF	X	X	X	
TG276A22	20A4P02	<u>D</u>	20P327	A	X	X	X	
TG276B22	20A5P01	<u>V</u>	20J327	A	X	X	X	
TG278A22	20A4P02	<u>E</u>	20P326	E	X		X	
TG278A22	20A4P02	<u>E</u>	20A5P01	T		X		
TG278B22	20J326	<u>E</u>	20A5P01	T	X		X	
TG279A20	20A4P02	<u>G</u>	20P326	G	X		X	
TG279A20	20A4P02	<u>G</u>	20A5P01	<u>B</u>		X		
TG279B20	20A5P01	<u>B</u>	20J326	G	X		X	
TG280A22	20A4P02	<u>H</u>	20P326	N	X		X	
TG280A22	20A4P02	<u>h</u>	20A5P02	L		X		
TG280B22	20A5P02	<u>L</u>	20J326	N	X		X	
TG281A22	20A4P02	<u>I</u>	SPLICE		X	X	X	
TG281B22	20A16P01	<u>G</u>	SPLICE		X	X	X	
TG281C22	20P326	<u>H</u>	SPLICE		X		X	
TG281C22	20A5P01	<u>P</u>	SPLICE			X		
TG281D22	20A5P01	<u>P</u>	20J326	H	X		X	
TG283A22	19TB4	A11	4A1J1	X	X		X	
TG283A22	16A2P1	<u>EE</u>	16TB1	A13		X		
TG283B22	200S1	<u>A</u>	4A1P1	X	X		X	
TG284A22	19TB4	F11	4A1J1	Y	X		X	
TG284A22	16A2P1	<u>FF</u>	16TB1	F13		X		
TG284B22	20DS1	<u>C</u>	4A1P1	Y	X			
TG284B22	20DS1	<u>C</u>	19TB4	<u>A</u>			X	
TG286A22	4A1J1	<u>Z</u>	8XA5	39	X		X	
TG286B22	20DS1	<u>D</u>	4A1P1	Z	X			
TG286B22	20DS1	<u>D</u>	4A1P1	X			X	
TG287A22N	20DS1	<u>E</u>	GND		X		X	
TG299A22(BLU)	20P325	<u>A</u>	20A10P01	A	X		X	
TG299A22(BLU)	16A2P1	<u>W</u>	20A2P04	Y		X		
TG299A22(WHT)	20A10P01	<u>B</u>	20P325	<u>B</u>	X		X	
TG299A22(WHT)	16A2P1	<u>V</u>	20A2P04	X		X		
TG299B22(BLU)	20A2P04	<u>Y</u>	20J325	<u>A</u>	X		X	
TG299B22(WHT)	20A2P04	<u>X</u>	20J325	<u>B</u>	X		X	
TG301A22(BLU)	20A10P01	<u>C</u>	20P327	<u>J</u>	X		X	
TG301A22(BLU)	20P327	<u>D</u>	16A2P1	<u>C</u>		X		
TG301A22(WHT)	20A10P01	<u>K</u>	20P327	<u>K</u>	X		X	
TG301A22(WHT)	20P327	<u>A</u>	16A2P1	<u>B</u>		X		
TG301B22(BLU)	20A2P04	<u>Z</u>	20J327	<u>J</u>	X	X	X	
TG301B22(WHT)	20A2P04	<u>F</u>	20J327	<u>K</u>	X	X	X	
TG303A22	20A10P01	<u>GG</u>	20P327	GG	X		X	
TG303A22	20P327		16A2P1	<u>G</u>		X		
TG303A22 #	SPLICE		16A2P1	<u>G</u>		X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG303B22	20A2P04	B	20J327	GG	x	x	x	
TG303B22 #	20A2P04	B	SPLICE			x		
TG304A22	20A10P01	H	20P327	H	x		x	
TG304A22	20P327	HH	16A2P1	Q		x		
TG304B22	20A2P04	C	20J327	HH	x	x	x	
TG305A22	20A10P01	K	20P327	JJ	x		x	
TG305A22	20P327	JJ	16A2P1	X		x		
TG305B22	20A2P04	D	20J327	JJ	x	x	x	
TG306A22(BLU)	20A10P01	P	20P327	V	x		x	
TG306A22(BLU)	20P327	V	16A2P1	J		x		
TG306A22(ORN)	20P327	U	20A10P01	U	x		x	
TG306A22(ORN)	20P327	U	16A2P1	F		x		
TG306A22(WHT)	20A10P01	N	20P327	T	x		x	
TG306A22(WHT)	20P327	T	16A2P1	K		x		
TG306B22(BLU)	20A2P04	F	20J327	V	x	x	x	
TG306B22(ORN)	20A2P04	F	20J327	U	x	x	x	
TG306B22(WHT)	20A2P04	E	20J327	T	x	x	x	
TG308E20	20P1	A	20P8J01	A		x		
TG308G20	20P2	A	20S8J01	A	x	x	x	
TG309A22(BLU)	20A10P01	R	20P327	M	x		x	
TG309A22(BLU)	20P327	M	16A2P1	M		x		
TG309A22(WHT)	20P327	N	20A10P01	S	x		x	
TG309A22(WHT)	20P327	N	16A2P1	F		x		
TG309B22(BLU)	20A2P04	H	20J327	M	x	x	x	
TG309B22(WHT)	20A2P04	G	20J327	N	x	x	x	
TG311A22	20A10P01	T	20P324	P	x		x	
TG311B22	20A7P03	Y	20J324	P	x		x	
TG312A22(WHT)	3XA5	40	20A10P01	E	x		x	
TG312A22(WHT) *	SPLICE		20A10P01	E	x		x	
TG312A22N(BLU)	20A10P01	M	GND		x		x	
TG316A22(WHT)	20A16P01	H	8TB4	C2	x	x	x	
TG316A22N(BLU)	20A16P01	J	GND		x	x	x	
TG319A22	20A16P01	N	20P328	M	x		x	
TG319A22	20A2P04	X	20A16P01	N		x		
TG319B22	20A2P04	X	20J328	M	x		x	
TG320A22(BLU)	20P324	F	20A16P01	Y	x		x	
TG320A22(BLU)	20A7P03	J	20A16P01	Y		x		
TG320A22(WHT)	20A16P01	X	20P324	E	x		x	
TG320A22(WHT)	20A7P03	V	20A16P01	X		x		
TG320B22(BLU)	20A7P03	J	20J324	F	x		x	
TG320B22(WHT)	20A7P03	V	20J324	E	x		x	
TG322A22	20A16P01	Z	20P324	I	x		x	
TG322A22	20A7P02	L	20A16P01	Z		x		
TG322B22	20A7P02	L	20J324	I	x		x	
TG323A22	20A16P01	B	20P324	J	x		x	
TG323A22	20A7P02	X	20A16P01	B		x		
TG323B22	20A7P02	X	20J324	J	x		x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG324A22	20A16P01	<u>C</u>	20P324	<u>K</u>	x		x	
TG324A22	20A7P02	<u>U</u>	20A16P01	<u>C</u>		x		
TG324B22	20A7P02	<u>U</u>	20J324	<u>K</u>	x		x	
TG332A22	20A7P02	<u>J</u>	20J324	<u>R</u>	x		x	
TG332B22	20P324	<u>R</u>	4A1J1	<u>A</u>	x		x	
TG332C22	20DS1	<u>B</u>	4A1P1	<u>A</u>	x		x	
TG336A22	20A2P01	<u>J</u>	SPLICE			x		
TG336B22	22A5P1	<u>69</u>	SPLICE			x		
TG337A22	20XK1	<u>C2</u>	19XK95	<u>A2</u>	x			
TG337A22	22A5P1	<u>212</u>	22A5P1	<u>70</u>		x		
TG337A22	3XK4	<u>2</u>	22A4P313	<u>E</u>			x	
TG337B22	20J325	<u>Y</u>	20A2P01	<u>J</u>	x		x	
TG337C22	20P325	<u>Y</u>	20XK1	<u>C1</u>	x			
TG337C22	20P325	<u>Y</u>	3XK4	<u>1</u>			x	
TG338A22(BLU)	22A4P313	<u>R</u>	SPLICE		x			
TG338A22(BLU)	19TB6	<u>A2</u>	20P327	<u>E</u>		x		
TG338A22(BLU)	20P327	<u>F</u>	22A4P313	<u>R</u>			x	
TG338A22(WHT)	22A4P313	<u>G</u>	SPLICE		x			
TG338A22(WHT)	19TB6	<u>E1</u>	20P327	<u>E</u>		x		
TG338A22(WHT)	20P327	<u>E</u>	22A4P313	<u>G</u>			x	
TG338B22(BLU)	20A2P01	<u>K</u>	20J327	<u>F</u>	x	x	x	
TG338B22(WHT)	20A2P01	<u>J</u>	20J327	<u>E</u>	x	x	x	
TG338C22(BLU)	20P327	<u>F</u>	SPLICE		x	x		
TG338C22(WHT)	20P327	<u>E</u>	SPLICE		x	x		
TG338D22	19J1	<u>H</u>	20P327	<u>E</u>		x		
TG338D22	19J1	<u>H</u>	SPLICE		x	x		
TG340A22(BLU)	22A4P313	<u>S</u>	SPLICE		x			
TG340A22(BLU)	22A4P14	<u>G</u>	SPLICE		x			
TG340A22(BLU)	22A4P313	<u>T</u>	SPLICE				x	
TG340A22(WHT)	22A4P313	<u>T</u>	SPLICE		x			
TG340A22(WHT)	22A4P14	<u>H</u>	SPLICE			x		
TG340A22(WHT)	22A4B313	<u>S</u>	SPLICE				x	
TG340B22(BLU)	20P327	<u>Q</u>	SPLICE		x	x	x	
TG340B22(WHT)	20P327	<u>P</u>	SPLICE		x	x	x	
TG340C22(BLU)	20J332	<u>Y</u>	SPLICE		x	x	x	
TG340C22(WHT)	20J332	<u>W</u>	SPLICE		x	x	x	
TG340D22(BLU)	20A2P04	<u>P</u>	20J327	<u>Q</u>	x	x	x	
TG340D22(WHT)	20A2P04	<u>N</u>	20J327	<u>P</u>	x	x	x	
TG342A22(BLU)	22A4P313	<u>S</u>	SPLICE		x		x	
TG342A22(BLU)	22A4P14	<u>E</u>	SPLICE			x		
TG342A22(WHT)	22A4P313	<u>R</u>	SPLICE		x		x	
TG342A22(WHT)	22A4P14	<u>F</u>	SPLICE			x		
TG342B22(BLU)	20P327	<u>S</u>	SPLICE		x	x	x	
TG342B22(WHT)	20P327	<u>R</u>	SPLICE		x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG342C22(BLU)	20J332	X	SPLICE		X	X	X	
TG342C22(WHT)	20J332	V	SPLICE		X	X	X	
TG342D22(BLU)	20J327	S	20A2P04	M	X	X	X	
TG342D22(WHT)	20A2P04	L	20J327	R	X	X	X	
TG350A22(BLU)	20A20P2	L	SPLICE		X	X	X	
TG350A22(WHT)	20A20P2	K	SPLICE		X	X	X	
TG350B22(BLU)	SPLICE		20J2G	G	X	X	X	
TG350B22(WHT)	SPLICE		20J2	F	X	X	X	
TG350C22(BLU)	20J331	G	SPLICE		X	X	X	
TG350C22(WHT)	SPLICE		20J331	F	X	X	X	
TG350D22(BLU)	20P2	G	20A12P1	2	X	X	X	
TG350D22(WHT)	20P2	F	20A12P1	1	X	X	X	
TG352A22N	20J2	C	GND		X	X	X	
TG352B22N	20P2	C	20A12P1	9	X	X	X	
TG353A22(BLU)	20A20P2	G	SPLICE		X	X	X	
TG353A22(WHT)	20A20P2	F	SPLICE		X	X	X	
TG353B22(BLU)	SPLICE		20J2	E	X	X	X	
TG353C22(BLU)	SPLICE		20J331	K	X	X	X	
TG353C22(WHT)	SPLICE		20J331	J	X	X	X	
TG353D22(BLU)	20P2	E	20A12P1	3	X	X	X	
TG353D22(WHT)	20P2	D	20A12P1	4	X	X	X	
TG355A22(BLU)	20A20P2	R	SPLICE		X	X	X	
TG355A22(WHT)	20A20P2	P	SPLICE		X	X	X	
TG355B22(BLU)	SPLICE		21J2	J	X	X		
TG355B22(BLU)	21J4	F	SPLICE				X	
TG355B22(WHT)	SPLICE		21J2	I	X	X		
TG355B22(WHT)	21J4	E	SPLICE				X	
TG355C22	20J331	C	SPLICE		X	X	X	
TG355D22(BLU)	21P2	J	2062J1	F	X	X		
TG355D22(BLU)	20B2J1	F	21P4	E			X	
TG355D22(WHT)	21P2	I	20B2J1	E	X	X		
TG355D22(WHT)	21P4	E	20B2J1	E			X	
TG357A22(BLU)	20A20P2	V	21J2	H	X	X		
TG357A22(BLU)	20A20P2	V	21J4	D			X	
TG357A22(WHT)	20A20P2	U	21J2	G	X	X		
TG357A22(WHT)	20A20P2	U	21J4	C			X	
TG357B22(BLU)	21P2	H	20B2J1	D	X	X		
TG357B22(BLU)	21P4	D	20B2J1	D			X	
TG357B22(WHT)	21P2	G	20B2J1	C	X	X		
TG357B22(WHT)	21P4	C	2062J1	C			X	
TG359A22(BLU)	20A20P2	T	SPLICE		X	X	X	
TG359A22(WHT)	20A20P2	S	SPLICE		X	X	X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
TG359B22(BLU)	SPLICE		21J2	<u>E</u>	x	x		
TG359B22(BLU)	SPLICE		21J4	<u>B</u>			x	
TG359B22(WHT)	21J2	<u>E</u>	SPLICE		x	x		
TG359B22(WHT)	SPLICE		21J4	<u>A</u>			x	
TG359C22	20J331	<u>D</u>	SPLICE		x	x	x	
TG359D22(BLU)	21P2	<u>E</u>	20B2J1	<u>B</u>	x	x		
TG359D22(BLU)	21P4	<u>B</u>	20B2J1	<u>B</u>			x	
TG359D22(WHT)	21P2	<u>E</u>	20B2J1	<u>A</u>	x	x		
TG359D22(WHT)	21P4	<u>A</u>	20B2J1	<u>A</u>			x	
TG361A22(BLU)	20A20P2	<u>J</u>	SPLICE		x	x	x	
TG361A22(WHT)	20A20P2	<u>H</u>	SPLICE		x	x	x	
TG361B22(BLU)	21J2	<u>N</u>	SPLICE		x	x		
TG361B22(BLU)	SPLICE		21J4	<u>P</u>			x	
TG361B22(WHT)	21J2	<u>K</u>	SPLICE		x	x		
TG361B22(WHT)	SPLICE		21J4	<u>N</u>			x	
TG361C22	20J331	<u>Z</u>	SPLICE		x	x	x	
TG361D22(BLU)	21P2	<u>N</u>	20L3P1	<u>B</u>	x	x		
TG361D22(BLU)	20L3P1	<u>B</u>	21P4	<u>P</u>			x	
TG361D22(WHT)	21P2	<u>K</u>	20L3P1	<u>A</u>	x	x		
TG361D22(WHT)	20L3P1	<u>A</u>	21P4	<u>N</u>			x	
TG365A22	20A20P2	<u>A</u>	SPLICE		x	x	x	
TG365B22	1XK5	<u>A3</u>	SPLICE		x	x	x	
TG365C22	20J331	<u>G</u>	SPLICE		x	x	x	
TG366A22	20A20P1	<u>Z</u>	SPLICE		x	x	x	
TG366B22	20P325	<u>NN</u>	SPLICE		x	x	x	
TG366B22	20A2P01	<u>B</u>	SPLICE			x		
TG366C22	20J331	<u>U</u>	SPLICE		x	x	x	
TG366D22	20A2P01	<u>B</u>	20J325	<u>NN</u>	x		x	
TG367A22	20A20P2	<u>X</u>	SPLICE		x	x	x	
TG367B22	SPLICE		20P325	<u>JJ</u>	x		x	
TG367B22	20A2P01	<u>D</u>	SPLICE			x		
TG367C22	20J331	<u>V</u>	SPLICE		x	x	x	
TG367D22	20A2P01	<u>D</u>	20J325	<u>JJ</u>	x		x	
TG367D22	20A2P01	<u>D</u>	20J325	<u>JJ</u>	x		x	
TG368A22	20A20P1	<u>A</u>	SPLICE		x	x	x	
TG368B22	20TB3	<u>1</u>	SPLICE		x	x	x	
TG368C22	SPLICE		20J331	<u>X</u>	x	x	x	
TG368D22	20TB3	<u>1</u>	20S2	<u>1</u>	x	x	x	
TG368E22	20P325	<u>A</u>	20TB3	<u>1</u>	x		x	
TG368E22	20TB3	<u>1</u>	20A2P03	<u>J</u>		x		
TG368F22	20J325	<u>A</u>	20A2P03	<u>J</u>	x		x	
TG369A22	20A20P2	<u>Y</u>	SPLICE		x	x	x	
TG369B22	SPLICE		20TB3	<u>3</u>	x	x	x	
TG369C22	20J331	<u>Y</u>	SPLICE		x	x	x	
TG369D22	20TB3	<u>3</u>	20S2	<u>3</u>	x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG369E22	20TB3	3	20P325	B	X		X	
TG369E22	20TB3	3	20A2P03	K		X		
TG369F22	20J325	B	20A2P03	K	X		X	
TG370A22	1XK5	A2	20L1P1	A	X	X	X	
TG371A22	3A1P1	E	20CB3		X	X	X	
TG371B22(WHT)	3A1J1	E	SPLICE		X	X	X	
TG371B22N(BLU)	SPLICE		GND		X	X	X	
TG371C22(BLU)	20J331	J	SPLICE		X	X	X	
TG371C22(WHT)	20J331	H	SPLICE		X	X		
TG371D22(BLU)	20A20P1	D	SPLICE		X	X	X	
TG371D22(WHT)	20A20P1	C	SPLICE		X	X	X	
TG373A22(BLU)	20A20P1	N	SPLICE		X	X	X	
TG373A22(WHT)	20A20P1	M	SPLICE		X	X	X	
TG373B22(BLU)	20J1	G	SPLICE		X	X	X	
TG373B22(WHT)	SPLICE		20J1	F	X	X	X	
TG373C22(BLU)	20J331	T	SPLICE		X	X	X	
TG373C22(WHT)	20J331	S	SPLICE		X	X	X	
TG373D22(BLU)	20P1	G	20A11P1	2	X	X	X	
TG373D22(WHT)	20P1	F	20A11P1	1	X	X	X	
TG375A22N	20J1	C	GND		X	X	X	
TG375B22N	20P1	C	20A11P1	9	X	X	X	
TG376A22(BLU)	20A20P1	J	SPLICE		X	X	X	
TG376A22(WHT)	20A20P1	H	SPLICE		X	X	X	
TG376B22(BLU)	20J1	E	SPLICE		X	X	X	
TG376B22(WHT)	20J1	D	SPLICE		X	X		
TG376B22(WHT)	20P1	D	SPLICE				X	
TG376C22(BLU)	SPLICE		20J331	L	X	X	X	
TG376C22(WHT)	20J331	H	SPLICE		X	X	X	
TG376D22(BLU)	20P1	E	20A11P1	3	X	X	X	
TG376D22(WHT)	20P1	D	20A11P1	4	X	X	X	
TG378A22(BLU)	20A20P1	T	SPLICE		X	X	X	
TG378A22(WHT)	20A20P1	S	SPLICE		X	X	X	
TG378B22(BLU)	SPLICE		21J1	J	X	X		
TG378B22(BLU)	21J3	E	SPLICE				X	
TG378B22(WHT)	21J1	I	SPLICE		X	X		
TG378B22(WHT)	21J3	E	SPLICE				X	
TG378C22	20J331	A	SPLICE		X	X	X	
TG378D22(BLU)	21P1	J	20B1J1	F	X	X		
TG378D22(BLU)	20B1J1	F	21P3	E			X	
TG378D22(WHT)	21P1	I	20B1J1	E	X	X		
TG378D22(WHT)	20B1J1	E	21P3	E			X	
TG380A22(BLU)	20A20P1	X	21J1	H	X	X		
TG380A22(BLU)	20A20P1	X	21J3	D			X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	E	M	P	
TG380A22(WHT)	21J1	<u>G</u>	20A20P1	W	x	x		
TG380A22(WHT)	20A20P1	W	21J3	<u>C</u>			x	
TG380D22(BLU)	21P1	<u>H</u>	20B1J1	D	x	x		
TG380D22(BLU)	20B1J1	D	21P3	<u>D</u>			x	
TG380D22(WHT)	21P1	<u>G</u>	20B1J1	C	x	x		
TG380D22(WHT)	20B1J1	C	21P3	<u>C</u>			x	
TG382A22(BLU)	20A20P1	U	SPLICE		x	x	x	
TG382A22(WHT)	20A20P1	V	SPLICE		x	x	x	
TG382B22(BLU)	SPLICE		21J1	<u>F</u>	x	x		
TG382B22(BLU)	21J3	<u>B</u>	SPLICE				x	
TG382B22(WHT)	21J1	<u>E</u>	SPLICE		x	x		
TG382B22(WHT)	21J3	<u>A</u>	SPLICE				x	
TG382C22	20J331	<u>B</u>	SPLICE		x	x	x	
TG382D22(BLU)	21P1	<u>F</u>	20B1J1	B	x	x		
TG382D22(BLU)	20B1J1	B	21P3	<u>B</u>			x	
TG382D22(WHT)	21P1	<u>E</u>	20B1J1	A	x	x		
TG382D22(WHT)	20B1J1	A	21P3	<u>A</u>			x	
TG384A22(BLU)	20A20P1	L	SPLICE		x	x	x	
TG384A22(WHT)	20A20P1	K	SPLICE		x	x		
TG384B22(BLU)	21J1	<u>N</u>	SPLICE		x	x		
TG384B22(BLU)	SPLICE		21J3	<u>P</u>			x	
TG384B22(WHT)	SPLICE		21J1	<u>K</u>	x	x		
TG384B22(WHT)	21J3	<u>N</u>	SPLICE				x	
TG384C22	SPLICE		20J331	X	x	x	x	
TG384D22(BLU)	21P1	<u>N</u>	20L2P1	B	x	x		
TG384D22(BLU)	20L2P1	B	21P3	<u>P</u>			x	
TG384D22(WHT)	21P1	<u>K</u>	20L2P1	A	x	x		
TG384D22(WHT)	20L2P1	A	21P3	<u>N</u>			x	
TG386A20N	20A20P1	C	GND		x	x	x	
TG388A20N	20A20P1	<u>E</u>	20TB3	11	x	x	x	
TG389A22N	20A20P1	<u>F</u>	SPLICE		x	x	x	
TG389B22N	SPLICE		GND		x	x	x	
TG389C22N	SPLICE		20J331	P	x	x	x	
TG393A22	20P1	C	20P8J01	C	x	x	x	
TG393B22	SPLICE		20J1	C	x	x	x	
TG393C22	SPLICE		SPLICE		x	x	x	
TG393D22	SPLICE		20J331	<u>Z</u>	x	x	x	
TG393E22	20A20P1	<u>B</u>	SPLICE		x	x	x	
TG393F22	19TB4	7A	SPLICE		x	x	x	
TG396A22(BLU)	20TB3	8	20J1	L	x	x	x	
TG396A22(WHT)	20TB3	7	20J1	K	x	x	x	
TG396B22(BLU)	20P1	L	20P8J01	L	x	x	x	
TG396B22(WHT)	20P1	K	20P8J01	K	x	x	x	
TG398A22(BLU)	20TB3	8	20TB3	8	x	x	x	
TG398A22(WHT)	20TB3	7	20J1	M	x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG398B22(BLU)	20P8J01	N	20P1	N	X	X	X	
TG398B22(WHT)	20P1	M	20P8J01	M	X	X	X	
TG400A22(BLU)	20TB3	8	20J1	R	X	X	X	
TG400A22(WHT)	20TB3	7	20J1	P	X	X	X	
TG400B22(BLU)	20P8J01	R	20P1	R	X	X	X	
TG400B22(WHT)	20P8J01	P	20P1	P	X	X	X	
TG402A22(BLU)	20A5P03	F	20J326	D	X		X	
TG402A22(BLU)	20A5P03	F	20J1	T		X		
TG402A22(WHT)	20A5P03	E	20J1	X		X		
TG402A22(WHT)	20A5P03	E	20J326	Z	X		X	
TG402B22(BLU)	20P326	D	20J1	T	X		X	
TG402B22(WHT)	20P326	Z	20J1	S	X		X	
TG402C22(BLU)	20P8J01	T	20P1	T		X	X	
TG402C22(WHT)	20P8J01	S	20P2	S	X	X	X	
TG404A22(BLU)	20A5P03	H	20J327	H	X	X	X	
TG404A22(WHT)	20A5P03	G	20J327	KK	X	X	X	
TG404B22(BLU)	20P327	H	20J1	V	X	X	X	
TG404B22(WHT)	20P327	KK	20J1	U	X	X	X	
TG404C22(BLU)	20P8J01	V	20P1	V	X	X	X	
TG404C22(WHT)	20P8J01	U	20P1	U	X	X	X	
TG406A22(BLU) # #	20A5P03	B	20J327	M	X	X	X	
TG406A22(WHT) # #	20A5P03	A	20J327	L	X	X	X	
TG406B16(WHT)	20P327	L	20J1	X			X	
TG406B22(BLU)	20P327	M	20J1	X	X	X	X	
TG406B22(WHT)	20J1	W	20P327	L	X	X	X	
TG406C22(BLU)	20P8J01	X	20P1	X	X	X	X	
TG406C22(WHT)	20P8J01	W	20P1	W	X	X		
TG408A16(BLU)	20A5P02	P	20J326	R	X		X	
TG408A16(BLU)	20A5P02	P	20J1	Z		X		
TG408A16(WHT)	20A5P02	N	20J326	G	X		X	
TG408A16(WHT)	20J1	Y	20A5P02	N		X		
TG408B16(BLU)	20J1	Z	20P326	R	X		X	
TG408B16(WHT)	20J1	Y	20P326	G	X		X	
TG408C20(BLU)	20P1	Z	SPLICE		X		X	
TG408C20(BLU)	20P1	Y	SPLICE			X		
TG408C20(WHT)	20P1	Y	SPLICE		X	X	X	
TG408D16(BLU)	SPLICE		SPLICE		X	X	X	
TG408D16(WHT)	SPLICE		SPLICE		X	X	X	
TG408E20(BLU)	20P8J01	Z	SPLICE		X	X		
TG408E20(WHT)	20P8J01	Y	SPLICE		X	X		
TG410A16(BLU)	20A5P02	L	20J326	S	X		X	
TG410A16(BLU)	20A5P02	I	20J1	B		X		
TG410A16(WHT)	20A5P02	S	20J326	I	X		X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
TG410A16(WHT)	20A5P02	<u>S</u>	20J1	<u>A</u>		x		
TG410B16(BLU)	20J1	<u>B</u>	20P326	<u>S</u>	x		x	
TG410B16(WHT)	20J1	<u>A</u>	20P326	<u>L</u>	x		x	
TG410C20(BLU)	20P1	<u>B</u>	SPLICE		x	x	x	
TG410C20(WHT)	20P1	<u>A</u>	SPLICE		x	x	x	
TG410D16(BLU)	SPLICE		SPLICE		x	x	x	
TG410D16(WHT)	SPLICE		SPLICE		x	x	x	
TG410E20(BLU)	20P8J01	<u>B</u>	SPLICE		x	x	x	
TG410E20(WHT)	20P8J01	<u>A</u>	SPLICE		x	x	x	
TG412A16N	20J1	<u>S</u>	20TB3	11	x	x	x	
TG412B16N	20A7P01	<u>M</u>	20TB3	11		x		
TG412B20N	20P1	<u>S</u>	SPLICE		x	x	x	
TG412C20N	20P8J01	<u>P</u>	SPLICE		x	x	x	
TG412D20N	20P8J01	<u>Q</u>	SPLICE		x	x	x	
TG412E20N	20P8J01	<u>R</u>	SPLICE		x	x	x	
TG412F20N	20P8J01	<u>S</u>	SPLICE		x	x	x	
TG412G16N	20TB3	11	20P323	<u>U</u>	x		x	
TG412H16N	20A7P01	<u>M</u>	20J323	<u>U</u>	x		x	
TG413A20	20P8J01	<u>I</u>	20P1	<u>T</u>	x	x	x	
TG413B20	20P324	<u>L</u>	20J1	<u>T</u>	x		x	
TG413B20	20A7P02	<u>G</u>	20J1	<u>T</u>		x		
TG413C20	20A7P02	<u>G</u>	20J324	<u>L</u>	x		x	
TG414A16N	20TB3	12	GND		x	x	x	
TG420A16(BLU)	20TB3	<u>5</u>	20P326	<u>P</u>	x		x	
TG420A16(BLU)	20A5P02	<u>M</u>	20TB3	<u>5</u>		x		
TG420A16(WHT)	20P326	<u>A</u>	20TB3	<u>4</u>	x		x	
TG420A16(WHT)	20TB3	<u>4</u>	20A5P02	<u>A</u>		x		
TG420B16(BLU)	20A5P02	<u>M</u>	20J326	<u>P</u>	x		x	
TG420B16(WHT)	20A5P02	<u>A</u>	20J326	<u>A</u>	x		x	
TG423A16(BLU)	20P326	<u>Q</u>	20TB3	<u>8</u>	x		x	
TG423A16(BLU)	20A5P02	<u>K</u>	20TB3	<u>8</u>		x		
TG423A16(WHT)	20P326	<u>E</u>	20TB3	<u>7</u>	x		x	
TG423A16(WHT)	20A5P02	<u>Z</u>	20TB3	<u>7</u>		x		
TG423B16(BLU)	20A5P02	<u>K</u>	20J326	<u>Q</u>	x		x	
TG423B16(WHT)	20A5P02	<u>Z</u>	20J326	<u>E</u>	x		x	
TG429A22	3A1P1	<u>F</u>	20CB5	<u>O</u>	x	x	x	
TG429B22(BLU)	GND		SPLICE	<u>A</u>	x			
TG429B22(ORN)	20P324	AA	3A1J1	<u>G</u>	x		x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	E	M	P	
TG429B22(ORN)	3A1J1	<u>G</u>	SPLICE			X		
TG429B22(WHT)	20P324	<u>Z</u>	3A1J1	E	X		X	
TG429B22(WHT)	3A1J1	<u>F</u>	SPLICE			X		
TG429B22(BLU)	20P324	<u>BB</u>	GND		X		X	
TG429C22(BLU)	SPLICE	<u>K</u>	20J324			X		
TG429C22(BLU)	20A7P01		SPLICE	BB	X		X	
TG429C22(ORN)	20A7P01	<u>A</u>	SPLICE			X		
TG429C22(ORN)	SPLICE		20J324	AA	X		X	
TG429C22(WHT)	SPLICE		20J324	Z	X		X	
TG429C22(WHT)	20A7P01	<u>Z</u>	SPLICE			X		
TG429D22(BLU)	20J330	<u>Z</u>	SPLICE		X	X	X	
TG429D22(ORN)	20J330	<u>A</u>	SPLICE		X	X	X	
TG429D22(WHT)	20J330	<u>Y</u>	SPLICE		X	X	X	
TG429E22(BLU)	20A7P01	<u>A</u>	SPLICE		X		X	
TG429E22(ORN)	20A7P01	<u>K</u>	SPLICE		X		X	
TG429E22(WHT)	SPLICE		20A7P01	Z	X		X	
TG430A22	3A1P1	<u>G</u>	20CB5	OC	X	X	X	
TG432A22(BLU)	20P327	<u>X</u>	1TB10	C2			X	
TG432A22(BLU)	20P327	<u>X</u>	1TB10	B3	X	X		
TG432A22(ORN)	20P327	<u>Y</u>	1TB10	G2	X	X	X	
TG432A22(WHT)	20P327	<u>W</u>	1TB10	J2			X	
TG432A22(WHT)	20P327	<u>W</u>	1TB10	G3	X	X		
TG432B22(BLU)	20A2P04	<u>S</u>	20J327	<u>X</u>	X	X	X	
TG432B22(ORN)	20A2P04	<u>T</u>	20J327	<u>Y</u>	X	X	X	
TG432B22(WHT)	20A2P04	<u>R</u>	20J327	<u>W</u>	X	X	X	
TG435A22(BLU)	20P327	<u>AA</u>	1TB10	C1			X	
TG435A22(BLU)	20P327	<u>BB</u>	1TB10	G1	X	X		
TG435A22(ORN)	20P327	<u>BB</u>	1TB10	G1			X	
TG435A22(ORN)	20P327	<u>AA</u>	1TB10	B1	X	X		
TG435A22(WHT)	20P327	<u>Z</u>	1TB10	E1			X	
TG435A22(WHT)	1TB10	<u>B2</u>	20P327	<u>Z</u>	X	X		
TG435B22(BLU)	20A2P04	<u>V</u>	20J327	AA	X		X	
TG435B22(BLU)	20J327	<u>BB</u>	20A2P04	V		X		
TG435B22(ORN)	20A2P04	<u>W</u>	20J327	BB	X		X	
TG435B22(ORN)	20J327	<u>AA</u>	20A2P04	W		X		
TG435B22(WHT)	20A2P04	<u>U</u>	20J327	<u>Z</u>	X	X	X	
TG438A16(BLU)	20A5P01	<u>S</u>	20TB1	4	X		X	
TG438A16(BLU)	20A5P01	<u>S</u>	16TB1	A11		X		
TG438A16(WHT)	20A5P01	<u>T</u>	20TB1	2	X		X	
TG438A16(WHT)	20A5P01	<u>T</u>	16TB1	A10		X		
TG438B22	20J330	<u>W</u>	20TB1	2	X		X	
TG438B22	20J330	<u>W</u>	16TB1	F10		X		
TG443A22	20S6J01	<u>C</u>	20P2	C	X	X	X	
TG443B22	20J2	<u>C</u>	SPLICE		X	X	X	
TG443C22	SPLICE		SPLICE		X	X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	E	M	P	
TG443C22	SPLICE		SPLICE		x	x	x	
TG443D22	20J331	AA	SPLICE		x	x	x	
TG443E22	20A20P2	B	SPLICE		x	x	x	
TG443F22	19TB4	F7	SPLICE		x	x	x	
TG446A22(BLU)	20TB3	5	20J2	L	x	x	x	
TG446A22(WHT)	20J2	K	20TB3	4	x	x	x	
TG446B22(BLU)	20P2	L	20S8J01	L	x	x	x	
TG446B22(WHT)	20P2	K	20S8J01	K	x	x	x	
TG448A22(BLU)	20TB3	5	20J2	N	x	x	x	
TG448A22(WHT)	20TB3	4	20J2	M	x	x	x	
TG448B22(BLU)	20P2	N	20S8J01	N	x	x	x	
TG448B22(WHT)	20P2	M	20S8J01	M	x	x	x	
TG449C22	20J330	D	SPLICE		x			
TG450A22(BLU)	20TB3	5	20J2	R	x	x	x	
TG450A22(WHT)	20TB3	4	20J2	P	x	x	x	
TG450B22(BLU)	20P2	R	20S8J01	R	x	x	x	
TG450B22(WHT)	20P2	P	20S8J01	P	x	x	x	
TG452A22(BLU)	20J326	W	20A5P03	J	x		x	
TG452A22(BLU)	20A5P03	J	20J2	T		x		
TG452A22(WHT)	20A5P03	I	20J326	X	x		x	
TG452A22(WHT)	20A5P03	I	20J2	S		x		
TG452B22(BLU)	20J2	T	20P326	W	x		x	
TG452B22(WHT)	20J2	S	20P326	X	x		x	
TG452C22(BLU)	20P2	T	20S8J01	T	x	x	x	
TG452C22(WHT)	20P2	S	20S8J01	S	x	x	x	
TG454A22(BLU)	20A5P03	M	20J326	H	x		x	
TG454A22(BLU)	20A5P03	M	20J2	V		x		
TG454A22(WHT)	20A5P03	K	20J326	Y	x		x	
TG454A22(WHT)	20A5P03	K	20J2	U		x		
TG454B22(6LU)	20J2	V	20P326	H	x		x	
TG454B22(WHT)	20J2	U	20P326	Y	x		x	
TG454C22(BLU)	20P2	V	20S8J01	V	x	x	x	
TG454C22(WHT)	20P2	U	20S8J01	U	x	x	x	
TG456A22(BLU)	20A5P03	D	20J326	J	x		x	
TG456A22(BLU)	20A5P03	D	20J2	X		x		
TG456A22(BLU) #	20A3P01	X	20J2	X		x		
TG456A22(WHT)	20A5P03	C	20J326	E	x		x	
TG456A22(WHT)	20A5P03	C	20J2	W		x		
TG456A22(WHT)#	20A3P01	W	20J2	W		x		
TG456B22(BLU)	20P326	J	20J2	X	x		x	
TG456B22(WHT)	20P326	F	20J2	W	x		x	
TG456C22(BLU)	20P2	X	20S8J01	X	x	x	x	
TG456C22(WHT)	20P2	W	20S8J01	W	x	x	x	
TG458A16(BLU)	20A5P02	G	20J326	I	x		x	
TG458A16(BLU)	20A5P02	G	20J2	Z		x		
TG458A16(WHT)	20A5P02	Q	20J326	N	x		x	
TG458A16(WHT)	20A5P02	Q	20J2	Y		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	F	M	P	
TG458B16(BLU)	20J2	Z	20P326	I	x		x	
TG458B16(WHT)	20P326	N	20J2	Y	x		x	
TG458C20(BLU)	20P2	Z	SPLICE		x	x	x	
TG458C20(WHT)	20P2	Y	SPLICE		x	x	x	
TG458D16(BLU)	SPLICE		SPLICE		x	x	x	
TG458D16(WHT)	SPLICE		SPLICE		x	x	x	
TG458E20(BLU)	SPLICE		20S8J01	Z	x	x	x	
TG458E20(WHT)	20S8J01	Y	SPLICE		x	x	x	
TG460A16(BLU)	20A5P02	R	20J326	M	x		x	
TG460A16(BLU)	20A5P02	R	20J2	B		x		
TG460A16(WHT)	20A5P02	I	20J326	K	x		x	
TG460A16(WHT)	20A5P02	I	20J2	A		x		
TG460B16(BLU)	20P326	M	20J2	B	x		x	
TG460B16(WHT)	20J2	A	20P326	K	x		x	
TG460C20(BLU)	20P2	B	SPLICE		x	x	x	
TG460C20(WHT)	20P2	A	SPLICE		x	x	x	
TG460D16(BLU)	SPLICE		SPLICE		x	x	x	
TG460D16(WHT)	SPLICE		SPLICE		x	x	x	
TG460E20(BLU)	SPLICE		20S8J01	B	x	x	x	
TG460E20(WHT)	SPLICE		20S8J01	A	x	x	x	
TG462A16N	20J2	S	20TB3	12	x	x	x	
TG462B16N	20A7P01	N	20TB3	12		x		
TG462B20N	20P2	S	SPLICE		x	x	x	
TG462C20N	SPLICE		20S8J01	P	x	x	x	
TG462D20N	SPLICE		20S8J01	Q	x	x	x	
TG462E20N	SPLICE		20S8J01	R	x	x	x	
TG462F20N	SPLICE		20S8J01	S	x	x	x	
TG462G16N	20TB3	12	20P323	T	x		x	
TG462H16N	20A7P01	N	20J323	T	x		x	
TG463A20	20P2	I	20S8J01	I	x	x	x	
TG463B20	20J2	L	20P324	K	x		x	
TG463B20	20J2	L	20A7P02	R		x		
TG463C20	20A7P02	R	20J324	KK	x		x	
TG475A22(BLU)	20A7P01	R	20A5P01	B	x	x	x	
TG475A22(WHT)	20A7P01	P	20A5P01	A	x	x	x	
TG477A22	20A7P02	J	20A5P01	K	x	x	x	
TG478A22	20A7P02	D	20A5P01	L	x	x	x	
TG479A22	20A7P02	H	20A5P01	M	x	x	x	
TG480A22	20A7P02	B	20A5P01	E	x	x	x	
TG481A16	20A7P02	Z	20A5P01	G	x	x	x	
TG481A16 #	20A7P02	Z	SPLICE			x		
TG482A22	20A7P02	A	20A5P01	I	x	x	x	
TG483A2	20A2P04	BB	20A5P01	R	x	x	x	
TG484A22	20A2P03	Z	20A5P01	X	x	x	x	
TG485A22	20A2P03	M	20A5P01	J	x	x	x	
TG486A20(BLU)	20A7P03	A	20A5P01	Q	x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG486A20(WHT)	20A7P03	<u>P</u>	20A5P01	<u>R</u>	x	x	x	
TG489A22	20A2P04	FF	SPLICE		x	x	x	
TG489B22	20A5P02	A	SPLICE		x	x	x	
TG489C22	20J330	N	SPLICE		x	x	x	
TG490A22	20A2P04	GG	SPLICE		x	x	x	
TG490B22	20A2P02	B	SPLICE		x	x	x	
TG490C22	20J330	R	SPLICE		x	x	x	
TG491A22	20A2P04	HH	20A5P02	C	x	x	x	
TG491A22#	20A2P04	HH	SPLICE			x		
TG492A22	20A5P02	D	20A2P04	JJ	x	x	x	
TG493A22	20A3P04	KK	20A5P02	E	x	x	x	
TG494A22	20A2P04	LL	SPLICE		x	x	x	
TG494B22	20A5P02	F	SPLICE		x	x	x	
TG494C22	20J330	<u>N</u>	SPLICE		x	x	x	
TG495A22	20A2P04	MM	SPLICE		x	x	x	
TG495B22	20A5P02	G	SPLICE		x	x	x	
TG495C22	20J330	<u>P</u>	SPLICE		x	x	x	
TG496A22	20A2P04	NN	SPLICE		x	x	x	
TG496B22	20A5P02	H	SPLICE		x	x	x	
TG496C22	20J330	<u>Q</u>	SPLICE		x	x	x	
TG497A22	20A2P04	PP	SPLICE		x	x	x	
TG497B22	20A5P02	J	SPLICE		x	x	x	
TG497C22	20J330	<u>R</u>	SPLICE		x	x	x	
TG498A22	20A2P04	DD	20A5P02	M	x	x	x	
TG499A22	20A5P02	R	SPLICE		x	x	x	
TG499B22	20A2P04	Y	SPLICE		x	x	x	
TG499C22	20J330	<u>D</u>	SPLICE		x	x	x	
TG500A22	20A2P04	CC	20A5P02	S	x	x	x	
TG501A22	20A5P02	U	20A2P04	EE	x	x	x	
TG502A22	20A6P02	P	20A7P01	T	x	x	x	
TG503A22	20A6P02	X	20A2P03	L	x	x	x	
TG506A22	20A2P03	V	20A5P03	<u>N</u>	x	x	x	
TG507A22	20A2F03	X	20A5P03	<u>Q</u>	x	x	x	
TG508A22	20A2P03	Y	20A5P03	<u>R</u>	x	x	x	
TG509A22	20A2P03	R	20A5P03	<u>S</u>	x	x	x	
TG510A22	20A2P03	T	20A5P03	<u>U</u>	x	x	x	
TG511A22	20A2P03	N	20A5P03	<u>Y</u>			x	
TG512A22	20A2P04	AA	20A5P03	CC	x	x	x	
TG513A22	20A2P04	<u>Z</u>	SPLICE		x	x	x	
TG513B22	20A5P03	DD	SPLICE		x	x	x	
TG513C22	20J326	F	SPLICE		x		x	
TG513C22	20A16P01	C	SPLICE			x		
TG513D22	20P326	F	20A16P01	C	x		x	
TG513E22	SPLICE		20A1J53	GG		x		
TG515A20(ORN)	20A2P01	M	20A7P01	J			x	
TG515A22(BLU)	20A2P01	N	20A7P01	K	x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG515A22(ORN)	20A2P01	M	20A7P01	J	x	x		
TG515A22(WHT)	20A2P01	L	20A7P01	H	x	x	x	
TG518A22	20A2P03	J	20A7P01	J	x	x	x	
TG520A20	20A7P02	C	20A2P01	N	x	x	x	
TG521A20	20A2P01	M	20A7P02	E	x	x	x	
TG521G22	19XK95	X1	SPLICE		x			
TG522A22	20A7P02	G	20A2P01	K	x	x	x	
TG523A16	20A7P02	I	20A2P01	P	x	x	x	
TG524A20	20A2P01	b	20A7P02	K	x	x	x	
TG525A22	20A7P02	M	20A2P01	R	x	x	x	
TG527A22(BLU)	20A2P01	G	20A7P03	D	x	x	x	
TG527A22(WHT)	20A7P03	C	20A2P01	F	x	x	x	
TG529A22(BLU)	20A2P01	Y	20A7P03	L	x	x	x	
TG529A22(WHT)	20A7P03	K	20A2P01	X	x	x	x	
TG531A16(BLU)	20A2P01	T	20A7P03	C	x	x	x	
TG531A16(WHT)	20A2P01	S	20A7P03	Q	x	x	x	
TG533A16(BLU)	20A2P01	I	20A7P03	I	x	x	x	
TG533A16(WHT)	20A7P03	S	20A2P01	G	x	x	x	
TG535A22	20A2P03	W	20A5P03	HH	x	x	x	
TG536A22	20AP03	U	20A5P03	PP	x	x	x	
TG538A22	22A3J1	P	19S8	1	x			
TG538A22	22A5P1	26	22A3P1	P		x		
TG538B22	22A3P1	P	20XK94	X1	x			
TG539A22N	19XK95	X2	GND		x			
TG540A22N	20XK94	X2	GND		x			
TG540A22N	22A5P1	25	GND			x		
TG545A16(BLU)	20A7P01	G	20TB1	4	x		x	
TG545A16(BLU)	20A7P01	G	16TB1	B11		x		
TG545A16(WHT)	20A7P01	E	20TB1	2	x		x	
TG545A16(WHT)	20A7P01	E	16TB1	B10		x		
TG547A16(BLU)	20A7P01	I	20TB1	4	x		x	
TG547A16(BLU)	20A7P01	I	16TB1	C11		x		
TG547A16(WHT)	20A7P01	P	20TB1	2	x		x	
TG547A16(WHT)	20A7P01	P	16TB1	C10		x		
TG549A16(BLU)	20A7P01	R	20TB1	5	x		x	
TG549A16(BLU)	20A7P01	R	16TB1	D11		x		
TG549A16(WHT)	20A7P01	Q	20TB1	3	x		x	
TG549A16(WHT)	20A7P01	Q	16TB1	D10		x		
TG551A16(BLU)	20A7P01	S	20TB1	5	x		x	
TG551A16(BLU)	16TB1	E11	20A7P01	S		x		
TG551A16(WHT)	20A7P01	I	20TB1	3	x		x	
TG551A16(WHT)	20A7P01	I	16TB1	E10		x		
TG556A22	2CA7P01	M	20A2P04	D	x	x	x	
TG566A22#	END CAP		END CAP			x		
TG567A20N	16XK8	X2	GND			x		
TG568A20(BLU)	20P328	H	20A1P06	HH	x		x	
TG568A20(BLU)	20A1P06	HH	20A2P01	A		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG568A20(WHT)	20P328	<u>I</u>	20A1P06	EE	x		x	
TG568A20(WHT)	20A1P06	<u>EE</u>	20A2P01	B		x		
TG568B20(BLU)	20J328	<u>h</u>	20A2P01	A	x		x	
TG568B20(WHT)	20J328	<u>I</u>	20A2P01	B	x		x	
TG570A22	20J1	<u>H</u>	20A20P1	R			x	
TG570B22	20P1	H	20A11P1	8	x		x	
TG571A22	20A20P2	N	20J2	H			x	
TG571B22	20P2	H	20A12P1	8			x	
TG572A22N	20L1P1	B	GND		x	x	x	
TG573A22	20A20P1	E	20A20P1	F	x	x	x	
TG578A22N	20A20P2	<u>D</u>	SPLICE		x	x	x	
TG578B22N	SPLICE		GND		x	x	x	
TG578C22N	20J331	<u>W</u>	SPLICE		x	x	x	
TG583A20N	20P8J01	<u>E</u>	20P1	B	x	x	x	
TG583B20N	20J1	<u>B</u>	20TB3	11	x	x	x	
TG584A20N	20S8J01	<u>E</u>	20P2	B	x	x	x	
TG584B20N	20TB3	12	20J2	B	x	x	x	
TG587A22N	20A20P2	C	GND		x	x	x	
TG591A22	3T1P1	<u>C</u>	SPLICE		x			
TG591A22	3T1P1	<u>C</u>	3TB2	G1		x		
TG591A22	3T1P1	<u>P</u>	SPLICE				x	
TG5911322(BLU)	20P325	CC	SPLICE		x		x	
TG591B22(BLU)	20A2P01	S	3TB2	A1		x		
TG591B22(ORN)	20P325	EE	SPLICE		x		x	
TG591B22(ORN)	20JA2P01	T	3TB2	D3		x		
TG591B22(WHT)	20P325	DD	SPLICE		x		x	
TG591B22(WHT)	20A2P01	R	3TB2	C2		x		
TG591C22(BLU)	20J331	<u>I</u>	SPLICE		x		x	
TG591C22(BLU)	20J331	<u>I</u>	3TB2	C1		x		
TG591C22(ORN)	20J331	<u>S</u>	SPLICE		x		x	
TG591C22(ORN)	20J331	<u>S</u>	3TB2	E3		x		
TG591C22(WHT)	20J331	<u>U</u>	SPLICE		x		x	
TG591C22(WHT)	20J331	<u>U</u>	3TB2	E2		x		
TG591D22(BLU)	20J325	CC	20A2P01	S	x		x	
TG591D22(BLU)	20A1P04	HH	3TB2	B1		x		
TG591D22(ORN)	20J325	EE	20A2P01	T	x		x	
TG591D22(WHT)	20J325	DD	20A2P01	R	x		x	
TG591D22(WHT)	3TB2	D2	20A1P04	BB		x		
TG591F22(BLU)	20A1P04	HH	SPLICE		x		x	
TG591F22(WHT)	20A1P04	BB	SPLICE		x		x	
TG592A22	3T1P1	X	SPLICE		x			
TG592A22	3TB2	H3	3T1P1	X		x		
TG592A22	3T1P1	R	SPLICE				x	
TG592B22(BLU)	20A6P01	E	3TB2	C3		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF DES.	PIN	E	M	P	
TG592B22(WHT)	20A6P01	<u>D</u>	3TB2	B2		x		
TG592E22(BLU)	20A6P01	<u>E</u>	SPLICE		x		x	
TG592E22(WHT)	20A6P01	<u>D</u>	SPLICE		x		x	
TG593A22	3T1P1	<u>H</u>	SPLICE		x			
TG593A22	3T1P1	<u>C</u>	SPLICE				x	
TG593A22	3TB2	<u>H2</u>	3T1P1	H		x		
TG594A22	3T1P1	<u>N</u>	SPLICE		x			
TG594A22	3T1P1	<u>D</u>	SPLICE				x	
TG594A22	3TB2	<u>G4</u>	3T1P1	N		x		
TG594B22(BLU)	SPLICE		SPLICE		x		x	
TG594B22(BLU)	3TB2	<u>E5</u>	SPLICE			x		
TG594B22(WHT)	SPLICE		SPLICE		x		x	
TG594B22(WHT)	3TB2	<u>C4</u>	SPLICE			x		
TG594C22(BLU)	20A1P05	<u>F</u>	SPLICE		x	x	x	
TG594C22(WHT)	20A1P05	<u>R</u>	SPLICE		x	x	x	
TG594D22(BLU)	20J332	<u>X</u>	BLANK		x	x	x	
TG594D22(WHT)	20J332	<u>W</u>	SPLICE		x	x	x	
TG594E22(BLU)	20J331	<u>L</u>	SPLICE		x		x	
TG594E22(BLU)	20J331	<u>L</u>	3TB2	C5		x		
TG594E22(WHT)	20J331	<u>K</u>	SPLICE		x		x	
TG594E22(WHT)	20J331	<u>K</u>	3TB2	A4		x		
TG594F22(BLU)	20A20P1	<u>J</u>	SPLICE		x		x	
TG594F22(BLU)	20A20P1	<u>J</u>	3TB2	D5		x		
TG594F22(WHT)	20A20P1	<u>H</u>	SPLICE		x		x	
TG594F22(WHT)	20A20P1	<u>H</u>	3TB2	B4		x		
TG595A22	3T1P1	<u>Z</u>	SPLICE		x			
TG595A22	3TB2	<u>H5</u>	3T1P1	Z		x		
TG595A22	3T1P1	<u>E</u>	SPLICE				x	
TG599A22N	22A5P1	<u>149</u>	GND			x		
TG600A22	19XK88	<u>X1</u>	19TB4	B19	x			
TG600A22	22A5P1	<u>150</u>	19TB4	B19		x		
TG600A22	19XK88	<u>X1</u>	19TB4	A8			x	
TG601A22	19TB4	<u>F9</u>	20S2	2	x			
TG601A22	20S2	<u>2</u>	19TB4	B9		x	x	
TG801A22	20A5P04	<u>W</u>	SPLICE		x	x	x	
TG801B22	SPLICE		20J330	B	x	x	x	
TG801C22	20J326	<u>D</u>	SPLICE		x		x	
TG801C22	20A16P01	<u>B</u>	SPLICE			x		
TG801D22	20A16P01	<u>B</u>	20P326	<u>D</u>	x		x	
TG802A22	20A5P04	<u>H</u>	20J330	P	x	x	x	
TG803A22	20A5P04	<u>K</u>	20J330	S	x	x	x	
TG804A22	20J330	<u>T</u>	20A5P04	L	x	x	x	
TG805A22	20J330	<u>U</u>	20A5P04	S	x	x	x	
TG806A22	20J330	<u>V</u>	20A5P04	T	x	x	x	
TG807A22	20J330	<u>M</u>	20A5P04	U	x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
TG808A22	20J330	K	20A5P04	V	X	X	X	
TG809A22	20J330	C	20A5P04	X	X	X	X	
TG810A22	20J330	D	20A5P04	Y	X	X	X	
TG810A22 #	SPLICE		20A5P04	Y		X		
TG811A22	20J330	F	20A5P04	Z	X	X	X	
TG812A22	20J330	H	20A5P04	B	X	X	X	
TG812A22 #	SPLICE		20A5P04	B		X		
TG813A22	20J330	J	20A5P04	B	X	X	X	
TG813A22 #	SPLICE		20A5P04	B		X		
TG814A22	20J330	K	20A5P04	C	X	X	X	
TG814A22 #	SPLICE		20A5P04	C		X		
TG815A22	20J330	L	20A5P04	D	X	X	X	
TG815A22#	SPLICE		20A5P04	D		X		
TG816A22	20J330	X	20A5P04	E	X	X	X	
TG816A22 #	SPLICE		20A5P04	E		X		
TG817A22	20J330	F	20A5P04	F	X			
TG817A22	20J330	F	20A5P04	Q		X	X	
TG818A22	20J330	B	20A5P04	Z	X	X	X	
TG819A22	20J330	C	20A5P04	A	X	X	X	
TG820A22	20J330	C	20A5P04	C	X	X	X	
TG821A22	20J330	E	20A5P04	D	X	X	X	
TG822A22	20J330	G	20A5P04	M	X	X	X	
TG823A22	20J330	H	20A5P04	N	X	X	X	
TG824A22	20A1P02	V	20J332	P	X	X	X	
TG825A22	20A1P02	C	20J332	U	X	X	X	
TG826A22	20A1P02	P	20J332	T	X	X	X	
TG827A22	20A1P02	S	20J332	S	X	X	X	
TG828A22	20A1P02	R	20J332	R	X	X	X	
TG829A22	29AP02	A	20J332	P	X	X	X	
TG830A22	20A1P02	B	20J332	N	X	X	X	
TG831A22	20A1P02	J	20J332	J	X	X	X	
TG832A22	20A1P02	H	20J332	H	X	X	X	
TG833A22	20A1P02	G	20J332	G	X	X	X	
TG834A22	20A1P02	D	20J332	F	X	X	X	
TG836A22	20J330	J	20A5P04	R	X	X	X	
TG850A22	20J331	N	20A20P1	A	X	X	X	
TG851A22	20J331	R	20A20P1	B	X	X	X	
TG853A22	20J331	W	20A20P1	C	X	X	X	
TG854A22	20J331	Y	20A20P2	A	X	X	X	
TG855A22	20J331	R	20A20P2	B	X	X	X	
TG856A22	20J331	E	20A20P2	C	X	X	X	
TG857A22N	SHLD		GND		X			
TG857A22N	GND		END CAP			X		
TG857A22N	SPLICE		GND				X	
TG860A22(BLU)	20P328	D	20A1P04	G	X		X	
TG860A22(BLU)	20A2P02	H	20P328	J	X		X	
TG860A22(WHT)	20A1P04	M	20P328	J	X		X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
TG860A22(WHT)	20A2P02	G	20A1P04	M		X		
TG860B22(BLU)	20J328	D	20A2P02	G	X			
TG860B22(BLU)	20A2P02	H	20J328	D			X	
TG860B22(WHT)	20J328	J	20A2P02	H	X			

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
TG860B22(WHT)	20A2P02	G	20J328	J			x	
TG862A22	20P325	AA	20A1P05	<u>Q</u>	x		x	
TG862B22	20A2P02	A	20J325	AA	x		x	
TG863A22	20P325	FF	20A1P05	<u>G</u>	x		x	
TG863B22	20A2P02	B	20J325	FF	x		x	
TG864A22	20P325	GG	20A1P04	<u>B</u>	x		x	
TG864B22	20A2P02	C	20J325	GG	x		x	
TG865A22	20P325	<u>X</u>	20A1P04	<u>I</u>	x		x	
TG865B22	20J325	<u>X</u>	20A2P02	D	x		x	
TG867A22	20A4P02	Z	20XK94	A3	x			
TG867A22	22A5P1	29	20A4P02	Z		x		
TG875A22	19XK95	A3	22A4P313	<u>E</u>	x			
TG875A22	22A4P15	Y	22A5P1	213		x		
TG1023A22	20A7P02	K	20A1J53	<u>I</u>		x		
V1A8	3CB7		2K9	A2	x	x		
V1A22	2A1P2	S	3CB1				x	
V1B22	2A1P2	T	3CB1				x	
V1C22	2A1J2	S	2A2J1	A			x	
V1D22	2A1J2	T	3K5P1	F			x	
V1E22	2A2P1	A	3S1	2			x	
V2A8	3PS1P1	C	3CB7	A2	x	x		
V2A22	2A1P2	R	3CB2				x	
V2B22	2A1J2	R	2A2J1	B			x	
V2C22	2A2P1	B	3S1	5			x	
V3A8N	3PS1P1	A	GND		x	x		
V4A22N	3CB7		GND		x	x		
V5A22	3CB7	3	3XK2	B3	x	x		
V5A22	3S1	3	2A2P1	R			x	
V5B22	3S2	S1	2A2J1	R			x	
V5C22	3S2	S1	3XK6	A1			x	
V6A22	2A1J2	S	3XK2	B2	x	x		
V6A22	3S1	6	SPLICE				x	
V6B22	3CB1	2A1P2	1	S	x	x		
V6B22	3S1	4	SPLICE				x	
V6D22	2A2J1	C	3XK6	C2			x	
V7A22	2A1P2	R	3CB1		x	x		
V7A22N	3XK8	X2	GND				x	
V7B22	2A2J1	L	2A1J2	R	x	x		
V7C22	2S1	3	2A2P1	L	x	x		
V8A22	3S1	1	2A2P1	P			x	
V8A22N	2S1	2	GND		x	x		
V8B22	2A2J1	P	3XK8	X1			x	
V10A22	3K1	X1	3S2	S2			x	
V11A22	3S3	S1	3XK6	C3			x	

WIRE NO.	END 1		END		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
V12A22	3K2	X1	3S3	S2			X	
V13A22N	3S3	S3	GND				X	
V14A22N	3S2	S3	GND				X	
V15A22N	3K1	X2	GND				X	
V16A22N	3K2	X2	GND				X	
V19A8	3S2	L2	3PS1P1	C			X	
V20A8N	3PS1P1	A	GND				X	
V23A12	3S3	L2	3MG1P1	D			X	
V24A12N	3MG1	B	GND				X	
V25A22	3XK6	A2	3XK3	X1			X	
V26A20N	3XK3	X2	GND				X	
V27A22	3K5P1	E	3XK6	X1			X	
V28A22N	3XK6	X2	GND				X	
V29A22N	3XK4	X2	GND				X	
W1A22	8CB7		2A1P1	N			X	
W1B22	2A1J1	N	8TB4	F4			X	
W1C22	8A2P1	N	8TB4	G4			X	
W1D22	8TB4	H4	8TB7	A3			X	
W1E22	8XK3	D3	8TB7	B3			X	
W1E22	22A5P2	30	8TB7	B3				
W1F22	8XK3	E1	8TB7	C3			X	
W1F22	22A5P2	31	8TB7	C3				
W2A22	8XK3	D2	8A2P1	R			X	
W2A22	8A2P1	R	22A5P2	29				
W4A22	8A2P1	Q	8TB7	F3			X	
W4B22	8XA4	46	8TB7	G3			X	
W4B22	8J5	56	8TB7	G3				
W4C22	8XA6	7	8TB7	H3			X	
W4C22	8J5	43	8TB7	H3				
W5A22N	8XA6	25	GND				X	
W5A22N	8J5	41	GND					
W6A20	8A3P1	L	8TB4	A7			X	
W6B20	8TB4	B7	8TB4	G9			X	
W6C20	8TB4	C7	8TB4	G6			X	
W6D20	8TB4	B6	8TB4	D7			X	
W6E20	8TB4	E7	8TB4	B8			X	
W7A20	8A2P1	M	8TB4	J9			X	
W7B20	1J2	B	8TB4	H9			X	
W7C20	1E3		1P2	B			X	
W8A20	8A2P1	K	8TB4	J6			X	
W8B20	10P1	E	8TB4	H6			X	
W8C20	1E1		10J1	E			X	
W9A20	8A2P1	L	8TB4	D6			X	
W9B20	10P1	A	8TB4	C6				
W9B20	8TB4	C6	10P1	F			X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
W9C20	1E2		10J1	A	x	x		
W9C20	1E2		10J1	F			x	
W10A20	8A2P1	J	8TB4	D8	x	x	x	
W10B20	1J1	<u>G</u>	8TB4	C8	x	x	x	
W10C18	1E4		1P1	<u>G</u>	x	x	x	
W17A22	8TB4	B9	1Z3P1	U	x	x	x	
W18A22	8CB10		2A1P1	V	x	x	x	
W18B22	1Z3P1	H	2A1J1	V	x	x	x	
W19A22	8CB7		2A1P1	P	x	x	x	
W19B22	2A1J1	P	8TB5	F6	x		x	
W19B22	8TB5	H7	2A1J1	P		x		
W19C22	8A3P1	X	8TB5	G6	x		x	
W19C22	8TB5	G7	8A3P1	X		x		
W19D22	8TB5	A6	8TB8	F2	x		x	
W19D22	8TB5	A7	8TB8	F2		x		
W19E22	8XK1	B3	8TB8	G2	x		x	
W19E22	22A5P2	6	8TB8	G2		x		
W19F22	22A5P2	17	8TB8	H2		x		
W19F22	8XK1	F2	8TB8	H2	x		x	
W21A22	8A2P1	<u>I</u>	8TB4	D9	x	x	x	
W21B22	8XA4	25	8TB4	C9			x	
W21B22	8J5	37	8TB4	C9	x	x		
W22A22	8DS7	A2	8DS7	B2	x		x	
W22A22	8DS18	A2	8DS18	B2		x		
W22B22	8DS7	(C)2	8DS7	B2	x		x	
W22B22	8DS18	B2	8DS17	A2		x		
W22C22	8DS7	(C)2	8DS10	2	x		x	
W22C22	8DS17	(A)2	8DS10	2		x		
W22D22	8DS10	2	4A1P1	<u>E</u>	x	x	x	
W22E22	4A1J1	<u>E</u>	8TB3	K3	x	x	x	
W23A22	1Z3P1	B	1A1J1	D	x	x	x	
W23B22	1A1P1	D	1S1	1	x	x	x	
W24A22	1Z3P1	T	1A1J1	C	x	x	x	
W24B22	1A1P1	C	1S1	2	x	x	x	
W25A22	1S1	3	1S1	4	x	x	x	
W26A22N	1S1	5	GND		x	x	x	
W27A22N	1Z3P1	D	GND		x	x	x	
W28A22	8A2P1	Y	8S6	NC	x			
W28A22	8A2P1	<u>E</u>	8S6	NC		x		
W28A22	8A2P1	W	8S6	NC			x	
W29A22N	8S6	NO	GND		x	x	x	
W30A22N	8A2P1	<u>M</u>	GND		x	x	x	
W31A22	4A1J1	<u>B</u>	8XA4	43	x		x	
W31A22	4A1J1	<u>B</u>	8J5	21		x		
W31B22	8DS7	(A)1	4A1P1	<u>B</u>	x		x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
W31B22	8DS18	A1	4A1P1	B		x		
W132A22	8CB7		2A1P1	R	x	x	x	
W132B22	2A1J1	R	1K1	X1	x	x	x	
W33A22	1TB4	2	1K1	X2	x	x	x	
W134A22	1K1	B3	1TB6	4	x	x	x	
W34B22	1K1	A2	1K1	B3	x	x	x	
W135A22	1K1	B1	1TB6	3	x	x	x	
W136A22	1K1	B2	1TB7	3	x	x	x	
W37A22	8A2P1	R	SPLICE		x	x	x	
W137B22	8A3P1	J	SPLICE		x	x	x	
W137C22	1TB7	4	SPLICE		x	x	x	
W37D22	1K1	A1	1TB7	4	x	x	x	
W38A22	4A1J1	C	8J5	19		x		
W38A22	4A1J1	C	8XA4	63	x		x	
W38B22	4A1P1	C	8DS7	B1	x		x	
W38B22	4A1P1	C	8DS18	B1		x		
W39A22	5A1P1	K	8XA6	45	x		x	
W39A22	5A1P1	K	8J5	1		x		
W39B22	5A1J1	K	8DS11	A1	x	x	x	
W40A22	4A1J1	N	8XA4	60	x		x	
W40A22	4A1J1	N	8J5	18		x		
W40B22	4A1P1	N	8DS7	C1	x		x	
W40B22	4A1P1	N	8DS17	A1		x		
W41A22	1M4P1	F	8TB4	K8	x	x	x	
W41C22	8A2P1	S	8TB4	J8	x	x	x	
W41D22	8XA4	29	8TB4	H8	x			
W41D22	8J5	38	8TB4	H8		x		
W41D22	8XA4	29	8TB4	H8			x	
W42A22	1TB3	J2	1M4P1	E	x	x		
W43A22	4A1J1	R	8XA4	51	x		x	
W43A22	4A1J1	R	BJ5	20		x		
W43B22	4A1P1	R	BDS10	1	x	x	x	
W45A22	8CB9		2A1P1	W	x	x	x	
W45B22	2A1J1	W	SPLICE		x	x	x	
W45C22	2A1J1	H	SPLICE		x			
W45C22	8Z2P1	H	SPLICE			x	x	
W45D22	2A1J1	A	SPLICE		x			
W45D22	8Z2P1	A	SPLICE			x	x	
W46A22	8Z2P1	F	8TB6	F1	x	x	x	
W46B22	8XA4	52	8TB4	G1	x		x	
W46B22	8J5	58	8TB6	G1		x		
W49A22	8XK3	E2	8TB6	J4	x		x	
W49A22	22A5P2	32	8TB6	J4		x		
W49B22	8Q4	C	8TB6	K4	x	x	x	
W49C22	8XA4	57	8TB6	D4	x		x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
W49C22	8J5	108	8TB6	D4		x		
W50A22	8XA4	59	8Q4	B	x		x	
W50A22	8Q4	B	8J5	107		x		
W51A22	8XK3	D1	8Q4	E	x		x	
W51A22	22A5P2	28	8Q4	E		x		
W51B22	8TB6	F5	8Q4	C		x		
W51B22	8TB6	F5	8Q4	E	x		x	
W53A22N	8TB6	G5	GND		x	x	x	
W54A18	8RT1P1		8Z2P1	C		x	x	
W55A18	8RT1P2		4A1J1	I	x	x		
W55B22	4A1P1	T	8S7	2	x	x	x	
W56A22	4A1P1	S	8S7	3	x	x	x	
W56B22	4A1J1	S	8Z2P1	D	x	x	x	
W57A22N	2A1J1	B	GND		x			
W57A22N	8Z2P1	B	GND			x	x	
W58A22N	8TB4	F5	GND		x	x	x	
W59A22N	8XA5	58	GND		x		x	
W59A22N	8J5	116	GND			x		
W60A22N	8P5	88	GND		x			
W60A22N	8J5	88	GND			x		
W62A22	4A1P1	D	8S7	1	x	x	x	
W62B22	4A1J1	D	8TB4	J5	x	x	x	
W64A22N	8A2P1	U	GND		x	x	x	
W65A22N	8A2P1	V	GND		x	x	x	
W66A22N	8A2P1	W	GND		x	x	x	
W67A22	8A2P1	I	8TB4	D10	x	x	x	
W67B22	8TB4	E10	8A3P1	U	x	x	x	
W68A22	1S7P1	A	8TB4	H10		x	x	
W68A22	1S7P1	A	8TB4	F7	x			
W68B22	8TB4	K7	8TB4	H10	x	x		
W69A22N	1S7P1	B	GND		x	x	x	
W70A20	8A2P1	D	1J2	P	x	x	x	
W70B20	1S10		1P2	P	x	x	x	
W71A22	8A2P1	G	SPLICE		x	x	x	
W71B22	8A3P1	C	SPLICE		x	x	x	
W71C22	1J1	G	SPLICE		x	x	x	
W71D18	1S12		1P1	G	x	x	x	
W71E28	1S11		1S12		x	x	x	
W72A22	8A2P1	A	SPLICE		x	x	x	
W72B22	8A3P1	A	SPLICE		x	x	x	
W72C22	SPLICE		1J1	A	x	x	x	
W72D18	1S13P1	A	1P1	A	x	x	x	
W73A18N	1S13P1	B	1TB1	1	x	x	x	
W74A22	8A2P1	P	SPLICE		x	x	x	
W74B22	8A3P1	R	SPLICE		x	x	x	
W74C22	1J1	N	SPLICE		x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
W74D18	1S14P1	A	1P1	<u>N</u>	x	x	x	
W75A18N	1S14P1	B	1TB1	1	x	x	x	
W76A22	8A2P1	<u>E</u>	SPLICE				x	
W76A22	9TB1	J3	8A2P1	<u>E</u>	x	x		
W76B22	8A3P1	F	SPLICE				x	
W76B22	8A3P1	F	9TB1	K3	x	x		
W76C22	1S6P1	A	SPLICE				x	
W76C22	9TB1	F3	1S6P1	A	x	x		
W77A22	8A2P1	<u>G</u>	SPLICE		x	x	x	
W77B22	8A3P1	M	SPLICE		x	x	x	
W77C22	1S20P1	C	SPLICE		x	x	x	
W78A22	8A2P1	B	SPLICE		x	x	x	
W78B22	8A3P1	N	SPLICE		x	x	x	
W78C22	1J2	A	SPLICE		x	x	x	
W78D20	1S9P1	A	1P2	A	x	x	x	
W79A20N	1S9P1	B	GND		x	x	x	
W80A22	8A2P1	F	SPLICE		x	x	x	
W80B22	8A3P1	P	SPLICE		x	x	x	
W80C22	1J2	G	SPLICE		x	x	x	
W80D20	1S8		1P2	G	x	x	x	
W81A22N	1S20P1	B	GND		x	x	x	
W82A22N	1S6P1	B	GND		x	x	x	
W83A22	8A2P1	C	8TB4	B5	x	x	x	
W84A22	1J1	<u>P</u>	8TB4	E5	x	x	x	
W84B18	1P3	B	1P1	<u>P</u>	x	x	x	
W84C18	1J3	B	1K6	X2	x	x	x	
W84D18	1K6	X2	1TB5	1	x	x	x	
W87A22	8A2P1	N	1TB4	1	x	x	x	
W87B22	1S4P1	A	1TB4	1	x	x	x	
W88A22	8A2P1	S	1TB4	3	x	x	x	
W88B22	1S5P1	A	1TB4	3	x	x	x	
W89A22N	1S4P1	B	GND		x	x	x	
W90A22N	1S5P1	B	GND		x	x	x	
W91A22	8A2P1	T	SPLICE		x	x	x	
W91B22	8A3P1	S	SPLICE		x	x		
W91B22	8A3P1	G	SPLICE				x	
W91C22	2XK14	D2	8A3P1	S	x	x		
W91C22	2XK14	A2	SPLICE			x		
W91C22	2XK7	A3	SPLICE				x	
W93A22	1Z3P1	C	1TB3	B6	x	x	x	
W94A22N	8DS11	(A)2	GND		x	x	x	
W95A22	8A2P1	<u>P</u>	8TB4	A10	x	x	x	
W95B22	8TB4	B10	5A1P1	L	x	x	x	
W95C22	8DS11	(A)3	5A1J1	L	x	x	x	
W95D22	4A1J1	<u>K</u>	8TB4	C10	x	x	x	
W95E22	4A1P1	<u>K</u>	8DS17	(A)3		x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES	PIN	E	M	P	
W95E22	4A1P1	<u>K</u>	8DS7	(C)3	x		x	
W95F22	8DS7	(C)3	8DS7	(B)3	x		x	
W95F22	8DS18	(B)3	8DS17	(A)3		x		
W95G22	8DS7	(B)3	8DS7	(A)3	x		x	
W95G22	8DS18	A3	8DS18	B3		x		
W96A22	8XK1	F1	8TB8	D3	x		x	
W96A22	22A5P2	16	8TB5	D3		x		
W96B22	8Q3	C	8TB8	E3	x	x	x	
W96C22	8XA5	57	8TB8	J3	x		x	
W96C22	8TB8	J3	8J5	104		x		
W97A22	8XA5	59	8Q3	B	x		x	
W97A22	8J5	117	8Q3	B		x		
W98A22	8Q3	E	8XK1	B1	x		x	
W98A22	22A5P2	4	8Q3	E		x		
W99A22	8XK1	B2	8A3P1	Z	x		x	
W99A22	8A3P1	Z	22A5P2	6		x		
W100A18N	1B1P1	E	1TB1	1	x	x	x	
W101A22	1A2P1	X	1S28	3	x	x	x	
W101B22	1A2J1	X	8TB7	E1	x	x	x	
W101C22	8TB7	J1	8XA5	29	x		x	
W101C22	8TB7	J1	8J5	29		x		
W102A22	8A2P1	X	8XA5	60	x		x	
W102A22	8J5	16	8A2P1	X		x		
W103A22	8A3P1	H	8TB7	K1	x	x	x	
W104A22	8A2P1	<u>C</u>	8XA5	51	x		x	
W104A22	8J5	15	8A2P1	<u>C</u>		x		
W205A22	8A2P1	<u>D</u>	8J5	8		x		
W105A22	8A2P1	<u>D</u>	8XA5	17	x		x	
W106A18N	1J3	A	1TB5	2	x	x	x	
W106B18N	1P3	A	1TB1	1	x	x	x	
W107A22	1CB4		2A1P1	S	x	x	x	
W107B22	1A1J1	N	2A1J1	S	x	x	x	
W107C22	1A1P1	N	1S16	2	x	x	x	
W107D22	1CB4		2A1P1	T	x	x	x	
W107E22	2A1J1	T	1J1	<u>S</u>	x	x	x	
W107F18	1P1	<u>S</u>	1P3	D	x	x	x	
W107G18	1J3	D	1K6	A2	x	x	x	
W107H18	1K6	A2	1K6	B2	x	x	x	
W108A22	1A1P1	P	1S16	1	x	x	x	
W108B22	1A1J1	P	1J1	<u>R</u>	x	x	x	
W108C18	1P1	R	1P3	C	x	x	x	
W108D18	1J3	C	1K6	X1	x	x	x	
W109A18	1K6	A3	1J3	E	x	x	x	
W109B18	1P3	E	1B1P1	A	x	x	x	
W109C18	1K6	A3	1K6	B3	x	x	x	
W110A18	1K6	A1	1K6	B1	x	x	x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
W110B18	1J3	F	1K6	A1	x	x	x	
W110C18	1P3	F	1B1P1	B	x	x	x	
W111A22	3XK8	B3	8A2P1	U			x	
W112A22	8A2P1	Y	22A5P1	13		x		
W113A22	8A2P1	4	22A5P1	5		x	x	
W114A22N	3K5P1	H	GND				x	
W115A22	3K7P1	E	3XK6	B2			x	
W116A22N	3K7P1	D	GND				x	
W118A22N	8A3P1	w	GND		x	x	x	
W121A22	2301TB1	1	1Z3P1	V	x	x	x	
W122A22	1Z3P1	R	2301TB2	1	x	x	x	
W123A22	1TB3	K3	1Z3P1	P	x	x	x	
W124A22	1Z3P1	N	1TB3	J8	x	x		
W130A22	8A3P1	A	8XA6	63	x		x	
W130A22	8A3P1	A	8J5	2		x		
W132A22	8TB4	F11	8A3P1	D	x	x		
W132AB22	8TB4	G11	8A2P1	W	x	x		
W132C22	8TB4	H11	3K1	13	x	x		
W133C22	2XK15	D3	8A3P1	K	x			
W133A22	8A3P1	K	SPLICE		x	x		
W133B22	8A2P1	U	SPLICE		x	x		
W133C22	2XK15	D3	8A2P1	U	x	x		
W141A22	8A2P1	A	20A1J53	1		x		
X1A14	3G1	T1	3K1	A1	x	x		
X1A20	3XK4	A3	3A1J1	V			x	
X1B14	3J2	A	3K1	A1		x		
X1B20	3A1P1	V	20CB4	(A)			x	
X1B20	3VR1P1	H	3K1	A1	x			
X1C20	3VR1P1	H	3K1	A1		x		
X2A14	3P2	B	3G1	T2		x		
X2A14	3K1	B1	3G1	T2	x			
X2A20	3XK6	D2	3TB1	C2			x	
X2B14	3K1	B1	3J2	B		x		
X2B20	3VR1P1	J	3K1	B1	x	x		
X2B20	3TB1	D2	3A1J1	W			x	
X2C20	3VR1P1	J	3K1	B1		x		
X2C20	3A1P1	W	20CB4	(B)			x	
X2D20	20CB4	(B)	BUS	20CB3			x	
X2F20	3TB1	E2	3XK4	A2			x	
X2G20	3TB1	K2	3XK3	A3			x	
X2H20	3TB1	H2	3XK3	B3			x	
X3A14	3G1	T3	3K1	C1	x	x		
X3A20	3XK4	A1	3A1J1	X			x	
X3B14	3J2	D	3K1	C1		x		
X3B20	3VR1P1	K	3K1	C1	x	x		
X3B20	3A1P1	X	20CB5	(A)			x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
X3C20	3VR1P1	K	3K1	C1		X		
X4A14	3P2	C	3G1	T4		X		
X4A14N	3G1	T4	GND		X	X		
X4A20	3XK4	B1	2A1J1	Y			X	
X4B14N	3J2	C	GND		X	X		
X4B20	3A1J1	Y	20CB5	$\phi(C)$			X	
X4C20	20CB4	$\phi(C)$	20CB5	$\phi(C)$			X	
X5A20	3K1	A3	3PS1P2	A	X	X		
X5A22	3A1P1	Z	20CB4	OA			X	
X5B22	3T1P1	K	3A1J1	Z			X	
X6A20	3K1	B3	3PS1P2	B	X	X		
X6A22	3A1P1	A	20CB4	$\phi(B)$			X	
X6B22	3T1P1	L	3A1J1	A			X	
X7A20	3K1	C3	3PS1P2	C	X	X		
X7A22	3A1P1	B	20CB4	$\phi(C)$			X	
X7622	3T1P1	U	3A1J1	B			X	
X8A20N	3PS1P2	D	GND		X	X		
X9A20N	3PS1P2	E	GND	X	X	X		
X10A20N	3PS1P2	F	GND	X	X			
X11A14	3K1	A2	3CB6	A1	X	X		
X11A14	3K1	A1	3CB6	A1	X	X		
X11A22	3A1P1	N	3CB4				X	
X11B20	3A1J1	W	3K1	A2	X	X		
X11B22	3A1J1	N	3J1	vv			X	
x11C20	3A1P1	W	20CB5	$\phi(C)$	X	X		
X11C20	3A1P1	W	20CB4	$\phi(A)$		X		
X11E20	115VAC BUS		115VAC BUS		X	X	X	
X11F20	115VAC	ϕA	115V AC	ϕA		X		
X12A14	3K1	B1	3CB6	B1	X	X		
X12A14	3K1	B2	3CB6	B1		X		
X12A22	3XK3	A2	3A1J1	T			X	
X12B20	3K1	B2	3A1J1	X	X	X		
X12B22	3A1P1	T	4CB1	ϕB			X	
X12C20	3A1P1	X	20CB4		X	X		
X12C22	4CB1		19CB1				X	
X13A14	3K1	C2	3CB6	C1	X	X		
X13A14	3K1	C1	3CB6	C1	X	X		
X13A22	3T2	LV	3A1J1	S			X	
X13B20	3A1J1	Y	3K1	C2	X	X		
X13B20	3K1	C2	3A1J1	X	X	X		
X13B22	3A1P1	S	28BVAC BUS				X	
X13C20	3A1P1	Y	20CB4	ϕC	X	X		
X13D20	115VAC BUS		20CB4	ϕC	X	X		
X14A14	3CB6	A2	3PS2P1	F	X	X		
X14A20	3XK3	B2	3A1J1	U			X	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
X14B20	3A1P1	U	115VAC BUS				x	
X15A14	3CB6	B2	3PS2P1	I	x	x		
X16A14	3CB6		3PS2P1	B	x	x		
X16A22	3A1P1	R	3CB3				x	
X16B22	3T2	HV	3A1J1	R				
X17A16N	3PS2P1	D	GND		x	x		
X17A22	3A1P1	P	3CB5				x	
X17B22	3C1		3A1J1	P			x	
X17C22	3C1		3C2				x	
X18A20	20CB4	A	3A1P1	Z	x	x		
X18A22N	3J1	G	GND				x	
X18B20	3A1J1	Z	3T1P1	P	x	x		
X19A20	20CB4	B	3A1P1	A	x	x		
X19A22N	3C2		GND				x	
X19B20	3A1J1	A	3T1P1	A	x	x		
X20A20	20CB4	C	3A1P1	B	x	x		
X20B20	3A1J1	B	3T1P1	R	x	x		
X21A20N	3T1P1	B	GND		x	x		
X21A22	3XK2	A1	3T1P1	A			x	
X22A22	3A1J1	P	3T1P1	C	x	x		
X22A22	3XK4	C1	3T1P1	N			x	
X22B22	3A1P1	P	20CB5	A	x	x		
X22D22	3A1P1	R	20CB5	A	x			
X23A22	3A1J1	R	3T1P1	D	x	x		
X23A22	3XK4	D1	3T1P1	M			x	
X23B22	3A1P1	R	20CB5	C	x	x		
X23C22	3A1J1	P	3T1P1	D		x		
X23D22	3A1P1	P	20CB5	C		x		
X24A22	3XK4	C2	3T1P1	J			x	
X25A20	3PS1P2	A	3TB1	A1			x	
X25A22N	3T1P1	E	GND		x	x		
X25B20	3PS1P2	F	3TB1	B1			x	
X25C20	3XK6	D1	3TB1	C1			x	
X25D22	3K5P1	K	3TB1	D1			x	
X27A20N	3PS1P2	B	SPLICE				x	
X27B20N	3PS1P2	D	SPLICE				x	
X27A22	3A1J1	V	3T1P1	F	x	x		
X27B22	4CB1		3A1P1	V	x	x		
X27C22	4CB1		19CB4		x	x		
X28A20N	SPLICE		GND				x	
X28A22N	3T1P1	G	GND		x	x		
X29A20	3PS1P2	C	3TB1	F1			x	
X29A22	3A1P1	U	3CB3		x			
X29B20	3PS1P2	E	3TB1	G1			x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES	PIN	E	M	P	
X29B22	3T2	HV	3A1J1	U	x	x		
X29C20	3TB1	H1	3XK4	B2			x	
X29D20	3TB1	J1	3XK3	B1			x	
X30A22	3T2	LV	3A1J1	T	x	x		
X30B22	3A1P1	T	3A1	26V BUS	X	x		
X31A22	3XK4	D3	3XK4	C3			x	
X31A22N	3T2	G	GND		x	x		
X32A20	3MG1P1	C	3TB1	A2			x	
X32A22	3CB4		3A1P1	R	x	x		
X32B20	3TB1	B2	3XK6	D3			x	
X32B22	3J1	W	3A1J1	R	x	x		
X32C22	3TB1	F2	3K7P1	K			x	
X33A22N	3J1	G	GND		x	x		
X34A22N	3J1	GND	GND		x	x		
X34A22N	3K7P1	C	GND				x	
X35A22	3CB5		3A1P1	S	x	x		
X35A22N	3K5P1	C	GND				x	
X35B22	3A1J1	S	3C1	+	x	x		
X36A22	3C1		3C2	+	x	x		
X36A22N	3T2	G	GND				x	
X37A22	2TB1	D	3T3P1	A	x	x		
X37A22N	3T1P1	B	GND				x	
X37B22	2TB1	K	3G1P1	A	x	x		
X37C22	3VR1P1	L	2TB1	J	x	x		
X38A22	2TB1	C	3T3P1	B	x	x		
X38A22N	3XK4	D2	SPLICE				x	
X38B22	2TB1	B8	3G1P1	C	x	x		
X38C22	3VR1P1	M	2TB1	A	x	x		
X39A22	2TB1	F	3T3P1	C	x	x		
X39B22	3G1P1	E	2TB1	H	x	x		
X39C22	3VR1P1	N	2TB1	G	x	x		
X40A22	3VR1P1	P	3T3P1	D	x	x		
X41A22	3VR1P1	A	3G1P2	A	x	x		
X42A22	3VR1P1	B	3G1P2	B	x	x		
X43A22	3VR1P1	D	3G1P2	D	x	x		
X44A22	3VR1P1	E	3G1P2	E	x	x		
X45A22	3VR1P1	F	3G1P2	F	x	x		
X46A22	3VR1P1	R	3G1P1	B	x	x		
X47A22	3VR1P1	S	3G1P1	D	x	x		
X48A22	3VR1P1	T	3G1P1	F	x	x		
X49A22N	3VR1P1	G	GND		x	x		
X50A22	3VR1P1	U	2A2J1	G	x	x		
X50B22	2A2P1	G	3S1	2	x	x		
X51A22	2A2P1	H	3S1	3	x	x		
X51B22	1A2J1	J	2A2J1	H	x	x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF DES.	PIN	E	M	P	
X51C22	1A2P1	J	2S4	7	x	x		
X52A22	1A2P1	K	2S4	8	x	x		
X52B22	3VR1P1	V	1A2J1	K	x	x		
X53A22	3VR1P1	W	2A2J1	J	x	x		
X53B22	2A2P1	J	3S1	5	x	x		
X54A22	2A2P1	K	3S1	6	x	x		
X54B22	1A2J1	<u>N</u>	2A2J1	K	x	x		
X54C22	1A2P1	<u>N</u>	2S4	10	x	x		
X55A22	1A2P1	<u>P</u>	2S4	11	x	x		
X55B22	1A2J1	<u>P</u>	3K1	X1	x	x		
X55C22	3XK2	X1	3K1	X1	x	x		
X56A22N	3CB6	5A	GND		x	x		
X57A22	3XK2	A2	3CB6	3	x	x		
X58A22	3XK2	A1	2A1J2	T	x	x		
X58B22	3CB2		2A1P2	T	x	x		
X59A22N	3CB2		GND		x	x		
X60A22	3XK2	X2	3K1	11	x	x		
X60A22	3K1	11	3XK2	X2	x	x		
X61A22N	3K1	12	GND		x	x		
X62A22N	3K1	X2	GND		x	x		
X63A22N	3C2	+	GND		x	x		
1-22	3408DS1P1	1	SPLICE			x		
1-22	3408DS1P2	1	END CAP			x		
IC6533-17A22	8TB4	H1	2301CP1P1	U	x			
1C6533-17A22 *	END CAP		2301CP1P1	U	x			
2-22	3408DS1P1	2	SPLICE			x		
2C6533-17A22	3TB5	J5	2301CP2P1	U	x			
3-22	3408DS1P2	3	END CAP			x		
4-22	3408DS1P2	4	END CAP			x		
5-22	20A11P1	5	END CAP		x	x	x	
5-22	20A12P1	5	END CAP		x	x	x	
5-22	3408DS1P2	5	END CAP			x		
6-22	20A11P1	6	END CAP		x	x	x	
6-22	20A12P1	6	END CAP		x	x	x	
6-22	3408DS1P2	6	END CAP			x		
7-22	20A11P1	7	END CAP		x	x	x	
7-22	20A12P1	7	END CAP		x	x	x	
7-22	3408DS1P2	7	END CAP			x		
8-22	20A12P1	8	END CAP			x		
8-22	END CAP		20A11P1	8		x		
8-22	3408DS1P2	8	END CAP			x		
9-22	3408DS1P2	9	END CAP			x		
12-22	3408DS1P1	12	SPLICE			x		
13-22	3408DS1P2	13	END CAP			x		
29	5A2P1	C	19S1				x	
30	5A2P1	E	19S1				x	

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
31	5A2P1	F	19S1				X	
32	5A2P1	N	19S2				X	
33	5A2P1	S	19S2				X	
34	5A2P1	W	8S10NVG		X			
35	5A2P1	X	8S10NORM		X			
37	5A2P1	A	19S1				X	
38	5A2P1	B	19S1				X	
39	5A2P1	D	19S1				X	
995-5B5W1200 *	8TB5	B9	8TB5	D9		X		
NOTE								
The following wires are peculiar to C-NITE equipped helicopters								
ASN128-1D22(WHT)	3400DS1P1	70	3400TB1	12E		X		
ASN128-1D22(BLU)	3400DS1P1	71	3400TB1	12B		X		
ASN128-1D22(ORN)	3400DS1P1	72	3400TB1	12G		X		
ASN128-1E22(WHT)	3400TB1	12J	20A1P08	16		X		
ASN128-1E22(BLU)	3400TB1	12C	20A1P08	18		X		
ASN128-1E22(ORN)	3400tb1	12H	20A1P08	17		X		
A1014D22	20A1P07	46	SPLICE			X		
A1015C22	SPLICE		8TB8	B6		X		
A1015D22	20A1P07	4	SPLICE			X		
A1040A22	20A1J53	<u>U</u>	SPLICE			X		
A1040B22	20A4P02	<u>M</u>	SPLICE			X		
A1040C22	20A1P07	38	SPLICE			X		
A1102D22	20A14P01	25	SPLICE			X		
A1105A22	20A1J09	U	SPLICE			X		
A1105B22	20A1J53	R	20A1J92	M		X		
A1105C22	20A1P92	M	SPLICE			X		
A1249A22(ORN)	16TB1	F8	SPLICE			X		
L225AA20	CTR FLD LT		SPLICE			X		
L244A22	22A5P2	51	1A2J1	<u>G</u>		X		
L246B22	1A2J1	<u>H</u>	8TB8	A6		X		
TG3A22	20A1J09	<u>G</u>	20P327	GG		X		
TG3B22	20J327	GG	SPLICE			X		
TG3C22	20A2P03	<u>D</u>	SPLICE			X		
TG3D22	20A3P01	W	SPLICE			X		
TG12A16(WHT)	20A2P01	<u>C</u>	SPLICE			X		
TG12A16(BLU)	20A2P01	<u>E</u>	SPLICE			X		
TG12B12(WHT)	SPLICE		SPLICE			X		
TG12B12(BLU)	SPLICE		SPLICE			X		
TG12C18(WHT)	20A1P06	A	SPLICE			X		
TG12C18(BLU)	20A1P06	W	SPLICE			X		
TG14A16(WHT)	20A2P01	Z	SPLICE			X		
TG14A16(BLU)	20A2P01	<u>A</u>	SPLICE			X		
TG14B12(WHT)	SPLICE		SPLICE			X		
TG14B12(BLU)	SPLICE		SPLICE			X		
TG14C18(WHT)	20A1P06	<u>P</u>	SPLICE			X		
TG14C18(BLU)	20A1P06	BB	SPLICE			X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
TG53B22	20J327	T	20A3P01	G		x		
TG55B22	20J327	U	20A3P01	H		x		
TG81A22	SPLICE		END CAP			x		
TG81D22	20A3P01	P	SPLICE			x		
TG82A22	SPLICE		END CAP			x		
TG82D22	20A3P01	R	SPLICE			x		
TG84B22(WHT)	20A14P01	42	SPLICE			x		
TG84B22(BLU)	20A14P01	50	SPLICE			x		
TG84B22(ORN)	20A14P01	33	SPLICE			x		
TG87B22	20A14P01	17	SPLICE			x		
TG93B22(WHT)	20J332	M	SPLICE			x		
TG93B22(BLU)	20J332	K	SPLICE			x		
TG93B22(ORN)	20J332	L	SPLICE			x		
TG129C22(WHT)	SPLICE		END CAP			x		
TG129C22(BLU)	SPLICE		END CAP			x		
TG129C22(ORN)	SPLICE		END CAP			x		
TG153B22(WHT)	20A14P01	29	SPLICE			x		
TG153B22(BLU)	20A14P01	22	SPLICE			x		
TG178A22(WHT)	20A2P03	K	20A1P92	K		x		
TG178A22(BLU)	20A2P03	M	20A1P92	L		x		
TG178B22(WHT)	20A1J92	K	20A1P03	D		x		
TG178B22(BLU)	20A1J92	L	20A1P03	L		x		
TG180A22(WHT)	20A2P03	N	20A1P92	G		x		
TG180A22(BLU)	20A2P03	P	20A1P92	H		x		
TG180A22(ORN)	20A2P03	Q	20A1P92	J		x		
TG180B22(WHT)	20A1J92	G	20A1P03	P		x		
TG180B22(BLU)	20A1J92	H	20A1P03	C		x		
TG180B22(ORN)	20A1J92	J	20A1P03	N		x		
TG204E22	20A3P03	FF	SPLICE			x		
TG209A22	20A14P01	32	SPLICE			x		
TG209A22(WHT)	20A6P01	V	SPLICE			x		
TG211A22	20A14P01	49	SPLICE			x		
TG211A22(WHT)	20A6P01	X	SPLICE			x		
TG239B20	SPLICE		SPLICE			x		
TG239E20	20A5P01	U	SPLICE			x		
TG239F20	20A3P02	H	SPLICE			x		
TG240A22	20A5P02	V	SPLICE			x		
TG240B22	20A4P01	E	SPLICE			x		
TG240C22	20A14P01	38	SPLICE			x		
TG240D22	20A3P01	F	SPLICE			x		
TG275B22	20A2P04	W	SPLICE			x		
TG275C22	20A3P03	Y	SPLICE			x		
TG279B20	20A3P02	A	SPLICE			x		
TG279C22	20A14P01	9	SPLICE			x		
TG281D22	20A14P01	72	SPLICE			x		
TG299B22	20A1P06	CC	SPLICE			x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
TG301C22	20A1P06	DD	SPLICE			X		
TG303A22	16A2P1	G	SPLICE			X		
TG303B22	20A2P04	<u>B</u>	SPLICE			X		
TG429E22(WHT)	20A9P01	47	SPLICE			X		
TG429E22(BLU)	20A9P01	48	SPLICE			X		
TG456A22(WHT)	20J2	W	20A3P01	<u>W</u>		X		
TG456A22(BLU)	20J2	X	20A3P01	<u>X</u>		X		
TG477B22	20A3P04	<u>A</u>	SPLICE			X		
TG480B22	20A3P04	H	SPLICE			X		
TG481A16	20A7P02	Z	SPLICE			X		
TG481B16	20A5P01	<u>G</u>	SPLICE			X		
TG481C20	20A3P01	N	SPLICE			X		
TG481D20	20A1P05	G	SPLICE			X		
TG491A22	20A2P04	HH	SPLICE			X		
TG491B22	20A5P02	C	SPLICE			X		
TG491C22	20A14P01	37	SPLICE			X		
TG499D22	20A3P01	<u>D</u>	SPLICE			X		
TG501B22	20A14P01	20	SPLICE			X		
TG501C22	20A3P01	<u>E</u>	SPLICE			X		
TG503B22	20A14P01	70	SPLICE			X		
TG513B22	20A1P06	<u>U</u>	SPLICE			X		
TG523B16	SPLICE		SPLICE			X		
TG523C22	20A14P01	28	SPLICE			X		
TG523D20	SPLICE		SPLICE			X		
TG523E22	20A3P04	J	SPLICE			X		
TG523F22	20A1P06	<u>Q</u>	SPLICE			X		
TG566A22	END CAP		END CAP			X		
TG810A22	20A5P04	Y	SPLICE			X		
TG810B22	20J330	D	SPLICE			X		
TG810C22	20A3P02	K	SPLICE			X		
TG810D22	20A14P01	68	SPLICE			X		
TG812A22	20A5P04	<u>B</u>	SPLICE			X		
TG812B22	20J330	H	SPLICE			X		
TG812C22	20A3P02	L	SPLICE			X		
TG813A22	20A5P04	<u>C</u>	SPLICE			X		
TG813B22	20J330	J	SPLICE			X		
TG813C22	20A3P02	M	SPLICE			X		
TG814A22	20A5P04	<u>D</u>	SPLICE			X		
TG814B22	20J330	K	SPLICE			X		
TG814C22	20A3P02	N	SPLICE			X		
TG815A22	20A5P04	<u>E</u>	SPLICE			X		
TG815B22	20J330	L	SPLICE			X		
TG815C22	20A3P02	P	SPLICE			X		
TG816A22	20A5P04	<u>G</u>	SPLICE			X		
TG816B22	20J330	X	SPLICE			X		
TG816C22	20A3P02	R	SPLICE			X		
TG827B22	20A3P03	X	SPLICE			X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
TG834B22	20A3P03	U	SPLICE			X		
TG1019A22	20A1P07	76	20A14P01	4		X		
TG1020A22	20A1P07	75	20A14P01	10		X		
TG1021A22	20A1P07	79	20A14P01	11		X		
TG1022A22(WHT)	20A1P07	72	20A14P01	7		X		
TG1022A22(BLU)	20A1P07	73	20A14P01	3		X		
TG1022A22(ORN)	20A1P07	74	20A1P01	8		X		
TG1023A22(WHT)	20A1P07	51	20A14P01	1		X		
TG1023A22(BLU)	20A1P07	52	20A14P01	6		X		
TG1023A22(ORN)	20A1P07	53	20A14P01	2		X		
TG1024A22	20A14P01	24	END CAP			X		
TG1025A22(WHT)	20A1P07	59	20A14P01	16		X		
TG1025A22(BLU)	20A1P07	58	20A14P01	15		X		
TG1026A22(WHT)	SPLICE		20A14P01	53.6		X		
TG1026A22(BLU)	20A1P07	41	20A14P01	55		X		
TG1026B22	20A3P03	Z	SPLICE			X		
TG1026C22	20A1P07	42	SPLICE			X		
TG1027A22	20A1P07	44	20A14P01	12		X		
TG1028A22	20A1P07	78	20A14P01	14		X		
TG1029A22	20A1P07	70	20A14P01	13		X		
TG1030A22	SPLICE		20A14P01	26		X		
TG1030B22	SPLICE		20A1P07	71		X		
TG1030C22	SPLICE		20A1P07	69		X		
TG1031A22(WHT)	20A1P07	66	20A3P03	D		X		
TG1031A22(BLU)	20A1P07	65	20A3P03	E		X		
TG1032A22(WHT)	20A1P07	54	20A3P03	A		X		
TG1032A22(BLU)	20A1P07	55	20A3P03	B		X		
TG1033A20(WHT)	20A9P02	K	SPLICE			X		
TG1033A20(BLU)	20A9P02	E	SPLICE			X		
TG1033A20(ORN)	20A9P02	E	SPLICE			X		
TG1033B16(WHT)	SPLICE		SPLICE			X		
TG1033B16(BLU)	SPLICE		SPLICE			X		
TG1033B16(ORN)	SPLICE		SPLICE			X		
TG1033C22(WHT)	20A1P07	3	SPLICE			X		
TG1033C22(BLU)	20A1P07	2	SPLICE			X		
TG1033C22(ORN)	20A1P07	1	SPLICE			X		
TG1034A20(WHT)	20A9P02	H	SPLICE			X		
TG1034A20(BLU)	20A9P02	Z	SPLICE			X		
TG1034B12(WHT)	SPLICE		SPLICE			X		
TG1034B12(BLU)	SPLICE		SPLICE			X		
TG1034C22(WHT)	20A1P07	63	SPLICE			X		
TG1034C22(BLU)	20A1P07	64	SPLICE			X		
TG1035A20(WHT)	20A9P02	Q	SPLICE			X		
TG1035A20(BLU)	20A9P02	R	SPLICE			X		
TG1035A20(ORN)	20A9P02	EE	SPLICE			X		
TG1035B12(WHT)	SPLICE		SPLICE			X		
TG1035B12(BLU)	SPLICE		SPLICE			X		
TG1035B12(ORN)	SPLICE		SPLICE			X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
TG1035C22 (WHT)	20A1P07	29	SPLICE	CC L		X		
TG1035C22 (BLU)	20A1P07	30	SPLICE			X		
TG1035C22 (ORN)	20A1P07	39	SPLICE			X		
TG1036A22 (WHT)	20A1P07	48	20A9P02			X		
TG1036A22 (BLU)	20A1P07	47	20A9P02			X		
TG1037A20 (WHT)	20A9P02	X	SPLICE			X		
TG1037A20 (BLU)	20A9P02	Y	SPLICE			X		
TG1037B16 (WHT)	SPLICE		SPLICE			X		
TG1037B16 (BLU)	SPLICE		SPLICE			X		
TG1037C22 (WHT)	20A1P07	50	SPLICE			X		
TG1037C22 (BLU)	20A1P07	49	SPLICE			X		
TG1038A20 (WHT)	20A9P02	E	SPLICE			X		
TG1038A20 (BLU)	20A9P02	F	SPLICE			X		
TG1038A20 (ORN)	20A9P02	G	SPLICE			X		
TG1038B16 (WHT)	SPLICE		SPLICE			X		
TG1038B16 (BLU)	SPLICE		SPLICE			X		
TG1038B16 (ORN)	SPLICE		SPLICE			X		
TG1038C22 (WHT)	20A1P07	43	SPLICE			X		
TG1038C22 (BLU)	20A1P07	44	SPLICE			X		
TG1038C22 (ORN)	20A1P07	45	SPLICE			X		
TG1039A20 (WHT)	20A9P02	N	SPLICE			X		
TG1039A20 (BLU)	20A9P02	P	SPLICE			X		
TG1039A20 (ORN)	20A9P02	R	SPLICE			X		
TG1039B16 (WHT)	SPLICE		SPLICE			X		
TG1039B16 (BLU)	SPLICE		SPLICE			X		
TG1039B16 (ORN)	SPLICE		SPLICE			X		
TG1039C22 (WHT)	20A1P07	33	SPLICE			X		
TG1039C22 (BLU)	20A1P07	34	SPLICE			X		
TG1039C22 (ORN)	20A1P07	35	SPLICE			X		
TG1039D22 (WHT)	20A1P08	25	SPLICE			X		
TG1039D22 (BLU)	20A1P08	24	SPLICE			X		
TG1039D22 (ORN)	20A1P08	23	SPLICE			X		
TG1040A20 (WHT)	20A1P02	<u>U</u>	SPLICE			X		
TG1040A20 (BLU)	20A1P02	<u>K</u>	SPLICE			X		
TG1040A20 (ORN)	20A1P02	<u>J</u>	SPLICE			X		
TG1040B22 (WHT)	20A1P07	60	SPLICE			X		
TG1040B22 (BLU)	20A1P07	61	SPLICE			X		
TG1040B22 (ORN)	20A1P07	62	SPLICE			X		
TG1041A20 (WHT)	20A9P02	M	SPLICE			X		
TG1041A20 (BLU)	20A9P02	FF	SPLICE			X		
TG1041B16 (WHT)	SPLICE		SPLICE			X		
TG1041B16 (BLU)	SPLICE		SPLICE			X		
TG1041C22 (WHT)	20A1P07	32	SPLICE			X		
TG1041C22 (BLU)	20A1P07	31	SPLICE			X		
TG1042A16 (WHT)	SPLICE		SPLICE			X		
TG1042A16 (BLU)	SPLICE		SPLICE			X		
TG1042B22 (WHT)	20A1P08	47	SPLICE			X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF.DES.	PIN	E	M	P	
TG1042B22(BLU)	20A1P08	48	SPLICE	A B C S T Z		X		
TG1042C20(WHT)	20A9P02	<u>V</u>	SPLICE			X		
TG1042C20(BLU)	20A9P02	<u>G</u>	SPLICE			X		
TG1046A22(WHT)	20A1P08	44	20A9P02			X		
TG1046A22(BLU)	20A1P08	45	20A9P02			X		
TG1046A22(ORN)	20A1P08	46	20A9P02			X		
TG1047A22(WHT)	20A1P08	41	20A9P02			X		
TG1047A22(BLU)	20A1P08	42	20A9P02			X		
TG1047A22(ORN)	20A1P08	43	20A9P02			X		
TG1048A20(WHT)	20A9P02	<u>N</u>	SPLICE			X		
TG1048A20(BLU)	20A9P02	<u>P</u>	SPLICE			X		
TG1048A20(ORN)	20A9P02	<u>M</u>	SPLICE			X		
TG1048B22(WHT)	20A1P08	36	SPLICE			X		
TG1048B22(BLU)	20A1P08	37	SPLICE			X		
TG1048B22(ORN)	20A1P08	35	SPLICE			X		
TG1048C22	20A1P08	11	SPLICE			X		
TG1049A20(WHT)	20A9P02	<u>W</u>	SPLICE			X		
TG1049A20(BLU)	20A9P02	DD	SPLICE			X		
TG1049B16(WHT)	SPLICE		SPLICE			X		
TG1049B16(BLU)	SPLICE		SPLICE			X		
TG1049C22(WHT)	20A1P08	33	SPLICE			X		
TG1049C22(BLU)	20A1P08	34	SPLICE			X		
TG1050A20(WHT)	20A9P02	D	SPLICE			X		
TG1050A20(BLU)	20A9P02	<u>I</u>	SPLICE			X		
TG1050B16(WHT)	SPLICE		SPLICE			X		
TG1050B16(BLU)	SPLICE		SPLICE			X		
TG1050C22(WHT)	20A1P08	31	SPLICE			X		
TG1050C22(BLU)	20A1P08	32	SPLICE			X		
TG1051A20(WHT)	20A9P02	AA	SPLICE			X		
TG1051A20(BLU)	20A9P02	HH	SPLICE			X		
TG1051A20(ORN)	20A9P02	GG	SPLICE			X		
TG1051B22(WHT)	20A1P08	38	SPLICE			X		
TG1051B22(BLU)	20A1P08	39	SPLICE			X		
TG1051B22(ORN)	20A1P08	40	SPLICE			X		
TG1052A20(WHT)	20A9P02	<u>X</u>	SPLICE			X		
TG1052A20(BLU)	20A9P02	BB	SPLICE			X		
TG1052B16(WHT)	SPLICE		SPLICE			X		
TG1052B16(BLU)	SPLICE		SPLICE			X		
TG1052C22(WHT)	20A1P08	29	SPLICE			X		
TG1052C22(BLU)	20A1P08	30	SPLICE			X		
TG1053A22	20A1P08	56	20A3P03	S T U V G		X		
TG1054A22	20A1P08	57	20A3P03			X		
TG1055A22	20A1P08	58	20A3P03			X		
TG1056A22	20A1P08	59	20A3P03			X		
TG1058A	20A1P08	51	20A3P03			X		
TG1059A	20A1P08	52	20A3P03			X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVE			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
TG1060A	20A1P08	53	20A3P03	K		X		
TG1061A	20A1P08	73	20A3P03	A		X		
TG1062A	20A1P08	74	20A3P03	C		X		
TG1063A	20A1P08	75	20A3P03	D		X		
TG1064A	20A1P08	54	20A3P03	M		X		
TG1065A	20A1P08	76	20A3P03	F		X		
TG1066A	20A1P08	72	20A3P03	N		X		
TG1067A22	20A1P08	21	SHIELD			X		
TG1068A22	20A1P08	55	END CAP			X		
TG1069A20	20A3P03	R	SHIELD			X		
TG1070A20	20A3P03	P	END CAP			X		
TG1071A22	20A1P08	65	20A3P03	R		X		
TG1072A22	20A1P08	61	20A3P03	M		X		
TG1073A22	20A1P08	62	20A3P03	N		X		
TG1074A22	20A1P08	60	20A3P03	K		X		
TG1075A22	20A1P08	63	20A3P03	P		X		
TG1076A22	20A1P08	64	20A3P03	Q		X		
TG1077A22 (WHT)	20A1P08	77	20A3P03	S		X		
TG1077A22 (BLU)	20A1P08	78	20A3P03	T		X		
TG1078A20	20A3P03	Z	END CAP			X		
TG1079A22	20A1P08	70	20A14P01	44		X		
TG1080A22	20A1P08	71	20A14P01	52		X		
TG1081A22 (WHT)	20A1P08	67	20A1J66	T		X		
TG1081A22 (BLU)	20A1P08	68	20A1J66	R		X		
TG1081A22 (ORN)	20A1P08	69	20A1J66	U		X		
TG1082A22	20A1J66	E	END CAP			X		
TG1085A20 (WHT)	20A9P01	41	SPLICE			X		
TG1085A20 (BLU)	20A9P01	42	SPLICE			X		
TG1085B16 (WHT)	SPLICE		SPLICE			X		
TG1085B16 (BLU)	SPLICE		SPLICE			X		
TG1085C20 (WHT)	20A3P04	A	SPLICE			X		
TG1085C20 (BLU)	20A3P04	B	SPLICE			X		
TG1086A20 (WHT)	20A9P01	43	SPLICE			X		
TG1086A20 (BLU)	20A9P01	44	SPLICE			X		
TG1086B16 (WHT)	SPLICE		SPLICE			X		
TG1086B16 (BLU)	SPLICE		SPLICE			X		
TG1086C20 (WHT)	20A3P04	C	SPLICE			X		
TG1086C20 (BLU)	20A3P04	D	SPLICE			X		
TG1087A22 (WHT)	20A9P01	9	20A3P04	E		X		
TG1087A22 (BLU)	20A9P01	10	20A3P04	F		X		
TG1087A22 (ORN)	20A9P01	11	20A3P04	G		X		
TG1090A22	END CAP		20A3P04	Z		X		
TG1091A22 (WHT)	20A9P01	45	20A3P04	U		X		
TG1091A22 (BLU)	20A9P01	27	20A3P04	V		X		
TG1093A22 (WHT)	20A9P01	5	20A3P04	X		X		
TG1093A22 (BLU)	20A9P01	35	20A3P04	Y		X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
TG1094A22	END CAP		20A3P04	T		x		
TG1095A22	20A9P01	50	END CAP			x		
TG1097A16	20CB6		SPLICE			x		
TG1097B20	20A9P01	55	SPLICE			x		
TG1097C20	20A9P01	34	SPLICE			x		
TG1097D20	20A9P01	30	SPLICE			x		
TG1098A22	20A14P01	5	END CAP			x		
TG1099A22	20A14P01	19	20A9P01	36		x		
TG1100A22	20A14P01	27	20A9P01	49		x		
TG1101A22	20A14P01	45	20A9P01	37		x		
TG1102A22	20A14P01	65	20A9P01	39		x		
TG1103A22	20A14P01	66	20A9P01	40		x		
TG1104A22	20A14P01	47	20A3P02	B		x		
TG1105A22	20A14P01	46	20A3P02	C		x		
TG1106A22	20A14P01	18	20A3P02	D		x		
TG1107A22	20A14P01	56	20A3P02	E		x		
TG1108A22	20A3P02	F	SPLICE			x		
TG1108B22	20A1P08	10	SPLICE			x		
TG1108C22	20A14P01	34	SPLICE			x		
TG1109A22	20A14P01	39	20A3P02	G		x		
TG1110A22	20A14P01	35	20A3P02	A		x		
TG1112A22	20A1P07	36	20A1J53	N		x		
TG1113A22	20A1P03	M	END CAP			x		
TG1114A22	20A1P03	P	END CAP			x		
TG1115A22	20A1J92	F	END CAP			x		
TG1115B22	20A1P92	F	END CAP			x		
TG1116A22	20A1J92	S	20A1P03	M		x		
TG1117A22	20A1J92	U	20A1P03	N		x		
TG1118A22	20A1J92	R	20A1P03	V		x		
TG1119A22	20A1J92	P	20A1P03	W		x		
TG1120A22	20A1J92	N	20A1P03	R		x		
TG1121A22(WHT)	20A1J92	C	20A1P03	S		x		
TG1121A22(BLU)	20A1J92	B	20A1P03	I		x		
TG1123A22	20A1J92	T	END CAP			x		
TG1124A22	20A1P07	5	SPLICE			x		
TG1124B16	16TB1	F11	SPLICE			x		
TG1125A22(WHT)	20A3P01	A	20A1P01	FF		x		
TG1125A22(BLU)	20A3P01	C	20A1P01	W		x		
TG1125A22(ORN)	20A3P01	B	20A1P01	K		x		
TG1126A22(WHT)	20A3P01	D	20A2P02	T		x		
TG1126A22(BLU)	20A3P01	F	20A2P02	U		x		
TG1126A22(ORN)	20A3P01	E	20A2P02	V		x		
TG1127A22	20A3P01	BB	END CAP			x		
TG1128A22(WHT)	20A3P01	K	20A5P03	AA		x		
TG1128A22(BLU)	20A3P01	L	20A5P03	BB		x		
TG1129A22	20A3P01	Y	END CAP			x		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF. DES.	PIN	REF. DES.	PIN	E	M	P	
TG1130A22	20A3P01	S	20A1P01	R		X		
TG1131A22	20A3P01	T	20A1P01	S		X		
TG1132A22	20A3P01	J	20A5P01	S		X		
TG1133A20	20A3P01	M	END CAP			X		
TG1134A22	20A3P01	U	20A2P04	D		X		
TG1135A20	20A3P01	V	20A7P01	M		X		
TG1137A22(WHT)	20A3P01	K	20A5P03	A		X		
TG1137A22(BLU)	20A3P01	M	20A5P03	B		X		
TG1138A22(WHT)	20A3P01	P	20A5P03	C		X		
TG1138A22(BLU)	20A3P01	Q	20A5P03	D		X		
TG1139A22(WHT)	20A3P01	T	20J327	L		X		
TG1139A22(BLU)	20A3P01	U	20J327	M		X		
TG1140A20	20A3P01	Z	END CAP			X		
TG1141A22	20A1P01	C	SPLICE			X		
TG1141B22	20A3P03	G	SPLICE			X		
TG1141C22	20J332	A	SPLICE			X		
TG1142A22	20A1P01	D	SPLICE			X		
TG1142B22	20A3P03	H	SPLICE			X		
TG1142C22	20J332	B	SPLICE			X		
TG1143A20	20A3P03	C	END CAP			X		
TG1144A22	20A7P02	T	SPLICE			X		
TG1144B22	20A3P04	B	SPLICE			X		
TG1144C22	20A1J09	C	SPLICE			X		
TG1146A20	20A9P01	33	END CAP			X		
TG1147A20	20A9P01	26	20A7P02	H		X		
TG1148A20N	20A9P01	32	GND			X		
TG1149A20(WHT)	20A9P02	A	SPLICE			X		
TG1149A20(BLU)	20A9P02	C	SPLICE			X		
TG1149B16(WHT)	SPLICE		SPLICE			X		
TG1149B16(BLU)	SPLICE		SPLICE			X		
TG1149C22(WHT)	20A1P08	1	SPLICE			X		
TG1149C22(BLU)	20A1P08	2	SPLICE			X		
TG1150A20(WHT)	20A9P02	H	SPLICE			X		
TG1150A20(BLU)	20A9P02	W	SPLICE			X		
TG1150B16(WHT)	SPLICE		SPLICE			X		
TG1150B16(BLU)	SPLICE		SPLICE			X		
TG1150C22(WHT)	20A1P08	6	SPLICE			X		
TG1150C22(BLU)	20A1P08	7	SPLICE			X		
TG1151A20(WHT)	20A9P02	S	SPLICE			X		
TG1151A20(BLU)	20A9P02	T	SPLICE			X		
TG1151B16(WHT)	SPLICE		SPLICE			X		
TG1151B16(BLU)	SPLICE		SPLICE			X		
TG1151C22(WHT)	20A1P08	3	SPLICE			X		
TG1151C22(BLU)	20A1P08	4	SPLICE			X		
TG1152A22(WHT)	20A9P02	U	20A1P08	8		X		
TG1152A22(BLU)	20A9P02	V	20A1P08	9		X		

WIRE NO.	END 1		END 2		MODEL EFFECTIVITY			FIGURE NUMBER
	REF.DES.	PIN	REF. DES.	PIN	E	M	P	
TG1153A20	20A9P02	B	END CAP			x		
TG1154A22	20A1P08	5	END CAP			x		
TG1155A22	20A14P01	21	20A1P06	F		x		
TG1158A22(WHT)	20A14P01	48	20A1J09	B		x		
TG1158A22(BLU)	20A14P01	53	20A1J09	A		x		
TG1159A22	20A14P01	58	20A7P02	N		x		
TG1160A22	20A14P01	63	20A7P02	J		x		
TG1161A22	20A14P01	64	20A7P02	<u>E</u>		x		
TG1162A22(WHT)	20A14P01	60	20A7P03	S		x		
TG1162A22(BLU)	20A14P01	59	20A7P03	Y		x		
TG1163A22(WHT)	20A14P01	31	16TB1	D6		x		
TG1163A22(BLU)	20A14P01	30	16TB1	D7		x		
TG1163C22(WHT)	20A1P08	49	16TB1	E6		x		
TG1163C22(BLU)	20A1P08	50	16TB1	K7		x		
TG1164A22N	20A14P01	51	GND			x		
TG1165A22	20A14P01	43	SPLICE			x		
TG1165B22	8TB5	G8	SPLICE			x		
TG1167A22	20A14P01	36	20A2P05	LL		x		
TG1169A20N	20A9P01	38	SPLICE			x		
TG1169B16N	GND		SPLICE			x		
TG1170A20N	20A9P01	53	SPLICE			x		
TG1170B16N	GND		SPLICE			x		
TG1171A20N	20A9P01	54	SPLICE			x		
TG1171B16N	GND		SPLICE			x		
TG1173A22	20A14P01	40	20P327	<u>E</u>		x		
TG1174A22	20A14P01	41	20P327	<u>D</u>		x		
TG1175A22	20P327	B	END CAP			x		
TG1175B22	20J327	B	END CAP			x		
TG1176A20N	20J332	DD	GND			x		
TG1177A22	20A1P07	67	20A14P01	62		x		
TG1178A16	20CB6		2K4	A2		x		
TG1179A22	20A1J09	D	20A14P01	71		x		
TG1182A22	20A3P01	<u>C</u>	20A14P01	67		x		
TG1183A22	20A2P05	KK	20A14P01	69		x		
TG1184A22	SPLICE		20A3P02	Z		x		
TG1184B22	SPLICE		20A5P01	Z		x		
TG1184C22	SPLICE		20A1P05	F		x		
TG1185A22	20A2P05	<u>A</u>	SPLICE			x		
TG1185B22	20A2P05	<u>D</u>	SPLICE			x		
TG1185C22	20A2P05	EE	SPLICE			x		
TG1186A22	20A2P05	FF	20A5P01	<u>K</u>		x		
TG1187A22	20A2P05	<u>S</u>	20A5P01	<u>M</u>		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
1A1P1	M	Q9C22	1S16	5	X	X	X	
1A1P1	N	W107C22	1S16	2	X	X	X	
1A1P1	P	W108A22	1S16	1	X	X	X	
1A1P1	V	C7A20	9S2	3	X		X	
1A1P1	W	C14A20	1S17	1	X	X	X	
1A1P1	X	Q2A22	1S32	1	X	X	X	
1A1P1	Y	Q4A22	1S32	3	X	X	X	
1A1P1	Z	Q10A22	1S16	4	X	X	X	
1A1P2	A	H1C20	1S34	2	X	X	X	
1A1P2	B	H2A20	1S34	1	X	X	X	
1A1P2	J	Q13C18	1S33	8	X	X	X	
1A1P2	K	Q14A18	1S33	7	X	X	X	
1A1P2	L	Q15C18	1S33	11	X	X	X	
1A1P2	M	Q16A18	1S33	10	X	X	X	
1A2J1	A	P6B22	1TB3	D9			X	
1A2J1	A	P6B22	2XK3	X2		X		
1A2J1	A	P6B22	2K2	NEG	X			
1A2J1	A	L235B22	8XA6	55			X	
1A2J1	A	L235B22	8J5	95	X	X		
1A2J1	B	L22D22	8J5	93	X	X		
1A2J1	B	L233B22	8TB8	C2	X	X	X	
1A2J1	C	L222A22	22A5P2	3		X		
1A2J1	C	L222A22	8XK1	A3	X			
1A2J1	C	L38E22	8TB5	B5	X	X	X	
1A2J1	D	L220B22	8TB8	H1	X			
1A2J1	D	L228C22	8TB8	K2	X	X	X	
1A2J1	D	L220B22	8TB8	E5		X		
1A2J1	E	L227B22	8TB8	A1	X	X	X	
1A2J1	E	L38C22	8TB5	A5	X	X		
1A2J1	F	Q25B22	4A2J1	Y	X	X	X	
1A2J1	F	L258A22	8J5	25	X	X		
1A2J1	G	Q1H22	1TB3	D1	X	X	X	
1A2J1	G	L244A22 * *	22A5P2	51		X		
1A2J1	G	L244A22 * *	19XK90	A3			X	
1A2J1	G	L244A22 * *	19XK80	E3	X			
1A2J1	H	Q24B22	4A2J1	F	X	X	X	
1A2J1	H	L246B22	8TB8	F4	X	X	X	
1A2J1	I	L234D22	8J5	111	X	X		
1A2J1	I	L234D22	8XA6	54			X	
1A2J1	J	X51B22	2A2J1	H	X	X		
1A2J1	J	L236D22	8TB5	E5	X	X		
1A2J1	K	X52B22	3VR1P1	V	X	X		
1A2J1	K	L39B22N	GND		X	X		
1A2J1	L	H2B20	1A1J2	B	X	X	X	
1A2J1	M	H3B20	1J1	H	X	X	X	
1A2J1	M	P5B16	2A2J1	W	X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
1A2J1	N	Q6C22	S P L I C E		X	X	X	
1A2J1	<u>N</u>	X54B22	2A2J1	K	X	X		
1A2J1	P	X55B22	3K1	X1		X		
1A2J1	P	Q7C22	SPLICE		X	X	X	
1A2J1	<u>Q</u>	L223B22	8J5	77	X	X		
1A2J1	R	P7B22	2A2J1	U	X	X	X	
1A2J1	<u>R</u>	P4A16	2XK6	B3	X	X	X	
1A2J1	S	L234A22	8XK1	C3	X		X	
1A2J1	T	A214B22	19TB5	A6	X	X		
1A2J1	T	L258D22	22A3P1	<u>S</u>			X	
1A2J1	F	L258A22	8XA6	29			X	
1A2J1	U	L238C22N	GND		X	X	X	
1A2J1	V	L259B22N	GND		X	X	X	
1A2J1	W	Q4B22	1A1J1	Y	X	X	X	
1A2J1	X	W101B22	8TB7	E1	X	X	X	
1A2J1	Y	Q3B22	1J1	V	X	X	X	
1A2J1	Z	Q2B22	1A1J1	X	X	X	X	
1A2J1	A	P6C22	2S4	I	X	X	X	
1A2P1	<u>A</u>	L235A22	8R4	4	X	X	X	
1A2P1	B	L222C22	8R5	3	X	X		
1A2P1	<u>B</u>	L233A22	8R4	6	X	X	X	
1A2P1	<u>C</u>	L38F22	8R4	7	X	X	X	
1A2P1	<u>D</u>	L228B22	8R3	4	X	X	X	
1A2P1	D	L220A22	8R5	6	X	X		
1A2P1	E	L38D22	8R5	7	X	X		
1A2P1	<u>E</u>	L227A22	8R3	6	X	X	X	
1A2P1	F	Q25C22	1S29	C(2)	X	X	X	
1A2P1	F	L258B22	8R4	2	X	X	X	
1A2P1	G	Q1J22	1S29	NO(1)	X	X	X	
1A2P1	<u>G</u>	L244B22	8S9	2	X	X	X	
1A2P1	C	L222B22	8R5	3	X	X		
1A2P1	H	Q24C22	1S29	C(1)	X	X	X	
1A2P1	<u>H</u>	L246A22	8S9	3	X	X	X	
1A2P1	I	L234C22	8R4	3	X	X	X	
1A2P1	J	X51C22	2S4	7	X	X		
1A2P1	<u>J</u>	L236E22	8J106		X	X		
1A2P1	K	X52A22	2S4	8	X	X		
1A2P1	<u>K</u>	L39A22N	GND		X	X		
1A2P1	L	H2C20	1S31	2	X	X	X	
1A2P1	M	H3A20	1S31	1	X	X	X	
1A2P1	<u>M</u>	P5A16	2S4	5	X	X	X	
1A2P1	N	Q6F22	1S30	2	X	X	X	
1A2P1	<u>N</u>	X54C22	2S4	10	X	X		
1A2P1	P	Q7D22	1S30	1	X	X	X	
1A2P1	<u>P</u>	X55A22	2S4	11	X	X		
1A2P1	<u>Q</u>	L223A22	8R5	4	X	X		
1A2P1	R	P7A22	2S4	2		X	X	
1A2P1	<u>R</u>	P4B16	2S4	4	X	X	X	
1A2P1	S	L234B22	8R4	3	X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
1A2P1	S	L234A22	22A5P2	9		X		
1A2P1	T	L258C22	8R4	2	X	X	X	
1A2P1	U	L238B22	8R4	5	X	X		
1A2P1	V	L259A22	8R4	1	X	X		
1A2P1	W	Q4C22	1S28	3	X	X	X	
1A2P1	X	W101A22	1S28	3	X	X	X	
1A2P1	Y	Q3A22	1S28	1	X	X	X	
1A2P1	Z	Q2C22	1S28	2	X	X	X	
1A2P1	U	L238B22	8R4	5			X	
1A2P2	V	L259A22	8R3	1			X	
1B1P1	A	W109B18	1P3	E	X	X	X	
1B1P1	B	W110C18	1P3	F	X	X	X	
1B1P1	E	W100A18N	1TB1	1	X	X	X	
1B2P1	B	C30A8	1S24	L2	X	X	X	
1B2P1	D	C31A8N	GND		X	X	X	
1B3	E	Q22C18	1P1	D	X	X	X	
1B3	GND	Q26A18N	1TB1	2	X	X	X	
1B3	R	Q23C18	1P1	B	X	X	X	
1B4P1	A	Q10B22	1A1J1	Z	X	X	X	
1B4P1	B	Q11B22	1A1J1	A	X	X	X	
1B4P1	E	Q12A22N	GND		X	X	X	
1CB1		C12A20	2A1P2	E	X	X	X	
1CB1		C12D20	2A1P2	E	X	X	X	
1CB2		C2A20	2A1P2	A	X	X	X	
1CB2		C2A22	2A1P2	A			X	
1CB4		W107A22	2A1P1	S	X	X	X	
1CB4		W107022	2A1P1	T	X	X	X	
1CB3		Q6A22	2A1P2	P	X	X	X	
1CB4		Q9A22	2A1P2	Q	X	X	X	
1CB5		Q1A22	2A1P2	R	X	X	X	
1CB6		J1A22	2A1P2	S	X	X	X	
1CB7		K1A22	2A1P2	I	X	X	X	
1CB8		H1A20	2A1P2	J	X	X	X	
1CB9		Q13A18	2A1P2	AA	X	X	X	
1CB10		E12A22	2A1P2	W	X	X	X	
1CB11		F13A22	2A1P2	D	X	X	X	
1CB11		F13C22	2A1P2	H	X	X	X	
1CB12		Q15A18	2A1P2	DD	X	X	X	
1CB16		E30A22	3A1P1	G	X	X	X	
1CB17		E24A22	2A1P2	N	X	X	X	
1CB18		E42A22	2A1P2	LL	X	X	X	
1CB19		E10A22	2A1P2	KK	X	X	X	
1CB20		E3A22	2A1P2	JJ	X	X	X	
1CB21		F15A22	2A1P2	M	X	X	X	
1CB50		E107A20	BUS		X	X		
1E1		W8C20	10J1	E	X	X	X	
1E2		W9C20	10J1	F			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
1E2		W9C20	10J1	A	x	x		
1E3		W7C20	1P2	B	x	x	x	
1E4		W10C18	1P1	<u>G</u>	x	x	x	
1G1P1	A	D1A20	1P2	J			x	
1G1P1	B	D2A20	1P2	K	x	x	x	
1J1	A	H37C22	SPLICE		x	x	x	
1J1	A	W72C22	SPLICE		x	x	x	
1J1	B	Q23B22	4A2J1	E	x	x	x	
1J1	B	E19A22	1M7P1	K	x	x	x	
1J1	C	P25B16	2XK6	A2	x	x	x	
1J1	<u>C</u>	E17B22	1M7P1	B	x	x	x	
1J1	D	Q22B22	4A2J1	D	x	x	x	
1J1	G	W71C22	SPLICE		x	x	x	
1J1	<u>G</u>	W10B20	8TB4	C8	x	x	x	
1J1	H	H3B20	1A2J1	M	x	x	x	
1J1	H	E18A22	1M7P1	J	x	x	x	
1J1	<u>J</u>	E39B20N	1TB3	K6	x	x	x	
1J1	J	E16B22	1M7P1	A	x	x	x	
1J1	L	E1B22	1TB3	H3	x	x	x	
1J1	M	E2B22	1TB3	E3	x	x	x	
1J1	N	E26B22	1TB3	C7	x	x	x	
1J1	<u>N</u>	W74C22	SPLICE		x	x	x	
1J1	<u>P</u>	W84A22	8TB4	E5	x	x	x	
1J1	P	E27B22	1TB3	H7	x	x	x	
1J1	R	J3B22	4A2J1	L	x	x	x	
1J1	R	W108B22	1A1J1	P	x	x	x	
1J1	<u>S</u>	W107E22	2A1J1	T	x	x	x	
1J1	T	Q4E22	1A1J1	J	x	x	x	
1J1	U	Q27C16N	GND		x	x	x	
1J1	V	Q3B22	1A2J1	Y	x	x	x	
1J1	X	E15A22	1M7P1	G	x	x	x	
1J2	A	W78C22	SPLICE		x	x	x	
1J2	B	W7B20	8TB4	H9	x	x	x	
1J2	C	D4B22	1M6P1	A	x	x	x	
1J2	D	D5B22	1M6P1	B	x	x	x	
1J2	E	D6A22	1M6P1	J	x	x	x	
1J2	F	D7A22	1M6P1	K	x	x	x	
1J2	G	W80C22	SPLICE		x	x	x	
1J2	H	D14B20	1M6P1	G	x	x	x	
1J2	J	D1B22	1TB3	E7	x	x	x	
1J2	K	D2B22	1TB3	E8	x	x	x	
1J2	N	D16B20N	GND		x	x	x	
1J2	P	W70A20	8A2P1	D	x	x	x	
1J3	A	W106A18N	1TB5	2	x	x	x	
1J3	B	W84C18	1K6	X2	x	x	x	
1J3	C	W108D18	1K6	X1	x	x	x	
1J3	D	W107G18	1XK6	A2	x	x	x	
1J3	E	W109A18	1K6	A3	x	x	x	
1J3	F	W110B18	1K6	A1	x	x	x	

END 1		WIRE No.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
1J4	A	P26B1	2R1	+SHUNT	x	x	x	
1J4	B	K4C4	1K3	A1	x	x	x	
1J4	C	K4A4	1K3	A1	x	x	x	
1J4	D	K5B1N	2J1(-)		x	x	x	
1J4	E	P26D4	2R1	SHUNT	x	x	x	
1J4	F	K5D4N	GND	SHUNT	x	x	x	
1J5	A	E40B — CHROMEL	19TB3	2	x			
1J5	A	E40B — CHROMEL	19TB3	3			x	
1J5	A	E40B — CHROMEL	1TB14	2		x		
1J5	B	E41B — ALUMEL	19TB3	1	x		x	
1J5	B	E41B — ALUMEL	1TB14	1		x		
1K1	A1	W37D22	1TB7	4	x	x	x	
1K1	A2	W34B22	1K1	B3	x	x	x	
1K1	B1	W35A22	1TB6	3	x	x	x	
1K1	B2	W36A22	1TB7	3	x	x	x	
1K1	B3	W34B22	1K1	A2	x	x	x	
1K1	B3	W34A22	1TB6	4	x	x	x	
1K1	X2	W33A22	1TB4	2	x	x	x	
1K3	A1	K4A4	1J4	C	x	x	x	
1K3	A1	K4C4	1J4	B	x	x	x	
1K3	A2	P27A22	2CB8	BUS	x	x		
1K3	X1	K2B22	4A2J1	M	x	x	x	
1K3	X1	K2C22	2VFR1P1	C	x	x	x	
1K3	X2	P68A22N	GND		x	x	x	
1K4	A1	C29A8	1S24	L1	x	x	x	
1K4	X1	C33A22	1S24	S2		x	x	
1K4	X1	C33A22	1S24	S3	x			
1K4	X2	C39A22N	GND		x	x	x	
1K4	11	C25A20	SPLICE		x	x	x	
1K4	12	C12E20	2A1J2	E	x	x	x	
1K6	A1	W110A18	1K6	B1	x	x	x	
1K6	A1	W110B18	1J3	F	x	x	x	
1K6	A2	W107G18	1J3	D	x	x	x	
1K6	A2	W107H18	1K6	B2	x	x	x	
1K6	A3	W109C18	1K6	B3	x	x	x	
1K6	A3	W109A18	1J3	E	x	x	x	
1K6	B1	W110A18	1K6	A1	x	x	x	
1K6	B2	W107H18	1K6	A2	x	x	x	
1K6	B3	W109C18	1K6	A3	x	x	x	
1K6	X1	W108D18	1J3	C	x	x	x	
1K6	X2	W84C18	1J3	B	x	x	x	
1K6	X2	W84D18	1TB5	1	x	x	x	
1L1P1	A	C13B20	1A1J1	G	x	x	x	
1L1P1	B	C15A20N	GND		x	x	x	
1L2P1	A	C14B20	1A1J1	W	x	x	x	
1L2P1	B	C16A20N	GND		x	x	x	
1L3P1	A	C25B20	SPLICE		x	x	x	
1L3P1	B	C26A20N	GND		x	x	x	
1L4P1	A	C25C20	SPLICE		x	x	x	
1L4P1	B	C27A20N	GND		x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES	PIN		REF DES.	PIN	E	M	P	
1L5		Q8A20N	GND		X	X	X	
1L5		Q7E20	SPLICE		x	x	x	
1MG1	A	P25A16	1P1	C	x	x	x	
1MG1	B+	P26A1	1P4	A	x	x	x	
1MG1	B+	B26C4	1P4	E	x	x	x	
1MG1	C	K4D4	1P4	B	x	x	x	
1MG1	C	K4B4	1P4	C	x	x	x	
1MG1	E-	K5A1	1P4	D	x	x	x	
1MG1	E-	K5C4	1P4	F	x	x	x	
1MT2P1	A	E18B18	1P1	H	x	x	x	
1MT2P1	B	E16A18	1P1	J	x	x	x	
1MT2P1	C	E17A18	1P1	C	x	x	x	
1MT2P1	D	E19B18	1P1	B	x	x	x	
1MT3P1	A	E4A22	1M4P1	A	x	x	x	
1MT3P1	B	E6B22	1M4P1	C	x	x	x	
1MT3P1	C	E7B22	1M4P1	D	x	x	x	
1MT3P1	D	E5A22	1M4P1	B	x	x	x	
1MT4P1	A	D6B20	1P2	E	x	x	x	
1MT4P1	B	D4A20	1P2	C	x	x	x	
1MT4P1	C	D5A20	1P2	D	x	x	x	
1MT4P1	D	D7B20	1P2	F	x	x	x	
1MT5P1	A	E8A22	1M14P1	A	x	x	x	
1MT5P1	B	E49B22	1M14P1	C	x	x	x	
1MT5P1	C	E50B22	1M14P1	C	x	x	x	
1MT5P1	D	E9A22	1M14P1	B	x	x	x	
1M1P1	A	L204A22 * *	8XA4	67			x	
1M41P1	A	L204A22 * *	8J5	70	x	x		
1M1P1	B	L170H22	8TB3	H1	x	x	x	
1M1P1	C	E24C22	1TB3	F2	x	x	x	
1M1P1	D	E25A22N	1TB3	J4	x	x	x	
1M1P1	T	E40D - CHROMEL	19TB3	2	x		x	
1M1P1	T	E40D - CHROMEL	1TB14	2		x		
1M1P1	U	E41D - ALUMEL	19TB3	1	x		x	
1M1P1	U	E41D - ALUMEL	1TB14	1		x		
1M10P1	A	F19A22N	1TB3	F5	x	x	x	
1M10P1	M	F18A22N	1TB3	G5	x	x	x	
1M10P1	P	F15D22	1TB3	A2	x	x	x	
1M10P1	X	L250E22N	8TB5	F3	x	x	x	
1M10P1	Y	L230M22	8TB5	G2	x	x	x	
1M11P1	A	L230H22	8TB5	H1	x	x	x	
1M11P1	B	L250G22N	8TB5	H3	x	x	x	
1M11P1	C	E24D22	1TB3	G2	x	x	x	
1M11P1	D	E28A22N	1TB3	G4	x	x	x	
1M11P1	T	E40C - CHROMEL	1TB14	2		x		
1M11P1	T	E40C - CHROMEL	19TB3	2	x		x	
1M11P1	U	E41C - ALUMEL	1TB14	1		x		
1M11P1	U	E41C - ALUMEL	19TB3	1	x		x	
1M12P1	A	E27D22	1TB3	G7	x	x	x	
1M12P1	B	E26D22	1TB3	B7	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
1M12P1	C	E42D22	1TB3	A3	x	x	x	
1M12P1	D	E33A22N	1TB3	B5	X	X	X	
1M12P1	E	L230K22	8TB5	K1	X	X	X	
1M12P1	F	L250J22N	8TB5	K3	x	x	x	
1M13P1	A	E2D22	1TB3	J3	x	x	x	
1M13P1	B	E1D22	1TB3	G3	x	x	x	
1M13P1	C	D2D22	1TB3	K8	x	x	x	
1M13P1	D	D11D22	1TB3	J7	x	x	x	
1M13P1	E	E3D22	1TB3	G1	x	x	x	
1M13P1	F	E32A22N	1TB3	C5	x	x	x	
1M13P1	H	L250K22N	8TB5	F4	x	x	x	
1M14P1	A	E8A22	1MT5P1	A	x	x	x	
1M14P1	B	E9A22	1MT5P1	D	x	x	x	
1M14P1	C	E49B22	1MT5P1	B	x	x	x	
1M14P1	D	E50B22	1MT5P1	C	x	x	x	
1M14P1	G	L230J22	8TB5	J1	x	x	x	
1M14P1	H	L250H22N	8TB5	J3	x	x	x	
1M14P1	J	E10D22	1TB3	D2	x	x	x	
1M14P1	K	E11A22N	1TB3	H4	x	x	x	
1M18P1	A	L158A22 **	8J5	80	x	x	x	
1M18P1	A	L158A22 **	8XA5	65			x	
1M18P1	B	L170B22 **	8TB3	B1	x	x	x	
1M19P1	B	L170C22 **	8TB3	C1	x	x	x	
1M19P1	C	L159B22 **	8TB3	D4	x	x		
1M19P1	C	L159A22	8XA5	64			x	
1M2P1	A	E27C22	1TB3	F7	x	x	x	
1M2P1	B	E26C22	1TB3	A7	x	x	x	
1M2P1	C	E42C22	1TB3	B3	x	x	x	
1M2P1	D	E23A22N	1TB3	K4	x	x	x	
1M2P1	E	L203A22 **	8J5	71	x	x		
1M2P1	E	L203A22 **	8XA4	33			x	
1M2P1	F	L170G22	8TB3	G1	x	x	x	
1M21P1	A	L230C22	8TB5	C2	x	x	x	
1M21P1	B	L250C22	8TB5	C4	x	x	x	
1M22P1	B	L250D22	8TB5	D4	x	x	x	
1M22P1	C	L230D22	8TB5	D2	x	x	x	
1M23P1		L230E22 **	8TB5	E2	x	x	x	
1M3P1	A	E2C22	1TB3	D3	x	x	x	
1M3P1	B	E1C22	1TB3	F3	x	x	x	
1M3P1	C	D2C22	1TB3	D8	x	x	x	
1M3P1	D	D1C22	1TB3	D7	x	x	x	
1M3P1	E	E3C22	1TB3	F1	x	x	x	
1M3P1	F	D3A22N	1TB3	D5	x	x	x	
1M3P1	G	L230L22	8TB5	F2	x	x	x	
1M3P1	G	L202A22 **	8J5	72	x	x	x	
1M3P1	G	L202A22 **	8XA4	68			x	
1M3P1	H	L170F22	8TB3	F1	x	x	x	
1M4P1	A	E4A22	1MT3P1	A	x	x	x	
1M4P1	B	E5A22	1MT3P1	D	x	x	x	
1M4P1	C	E6B22	1MT3P1	B	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
1M4P1	D	E7B22	1MT3P1	C	x	x		
1M4P1	E	W42A22	1TB3	J2	x	x		
1M4P1	F	W41A22	8TB4	K8	x	x	x	
1M4P1	G	L168C22 * *	8TB6	A2	x	x	x	
1M4P1	H	L170E22	8TB3	E1	x	x	x	
1M4P1	J	E10C22	1TB3	E2	x	x	x	
1M4P1	K	E22A22N	1TB3	A4	x	x	x	
1M4P1	L	A1098A22(WHT)	16A1P3	19		x		
1M4P1	M	A1098A22(BLU)	16A1P3	20		x		
1M5P1	A	F17A22N	1TB3	H5	x	x	x	
1M5P1	M	F16A22N	1TB3	J5	x	x	x	
1M5P1	P	F15C22	1TB3	B2	x	x	x	
1M5P1	X	L170U22	8TB3	J2	x	x	x	
1M5P1	Y	L211A22 **	8XA5	31			x	
1M5P1	Y	L211A22 **	8J5	68	x	x		
1M6P1	A	D4B22	1J2	C	x	x	x	
1M6P1	B	D5B22	1J2	D	x	x	x	
1M6P1	C	E12D22	1TB3	A1	x	x	x	
1M6P1	D	E21A22N	1TB3	B4	x		x	
1M6P1	D	E21A22N	GND			x		
1M6P1	E	L207A22 **	8XA4	65			x	
1M6P1	E	L207A22 **	8J5	90	x	x		
1M6P1	F	L170M22	8TB3	B2	x	x	x	
1M6P1	G	D14B20	1J2	H	x	x	x	
1M6P1	H	D15A22N	1TB3	H6	x	x	x	
1M6P1	J	D6A22	1J2	E	x	x	x	
1M6P1	K	D7A22	1J2	F	x	x	x	
1M7P1	A	E16B22	1J1	J	x	x	x	
1M7P1	B	E17B22	1J1	C	x	x	x	
1M7P1	C	E12C22	1TB3	B1	x	x	x	
1M7P1	D	E20A22N	1TB3	C4	x	x	x	
1M7P1	E	L205A22 **	8XA4	66			x	
1M7P1	E	L205A22 **	8J5	95	x			
1M7P1	E	L205A22 **	8J5	92		x		
1M7P1	F	L170J22	8TB3	J1	x	x	x	
1M7P1	G	E15A22	1J1	X	x	x	x	
1M7P1	H	E13A22N	1TB3	J6	x	x	x	
1M7P1	J	E18A22	1J1	H	x	x	x	
1M7P1	K	E19A22	1J1	B	x	x	x	
1M8P1	COAX	E38A22	1TB3	A8	x	x	x	
1M8P1	A	L208A22 **	8XA4	64			x	
1M8P1	A	L208A22 **	8J5	89	x	x		
1M8P1	B	E30B22	3A1J1	G	x	x	x	
1M8P1	C	L170N22	8TB3	C2	x	x	x	
1M8P1	D	E37A22	1Z1P1		x	x	x	
1M8P1	E	E35A22	22A1P1	P	x	x	x	
1M8P1	H	E36A22	1TB3	F8	x	x	x	
1M8P1	J	E48A22N	1TB3	D6	x	x	x	
1M20P1	1	L170D22 **	8TB3	D1	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
1M20P1	3	L157C22 **	8TB6	H4			X	
1M20P1	3	L157E22 **	SPLICE		X	X		
1P1	A	H37D20	10L1P0	3	X	X	X	
1P1	A	W72D18	1S13P1	A	X	X	X	
1P1	B	Q23C18	1B3	R	X	X	X	
1P1	B	E19B18	1MT2P1	D	X	X	X	
1P1	C	P25A16	1MG1	A	X	X	X	
1P1	C	E17A18	1MT2P1	C	X	X	X	
1P1	D	Q22C18	1B3	E	X	X	X	
1P1	G	W71D18	1S12		X	X	X	
1P1	G	W10C18	1E4		X	X	X	
1P1	H	H3C18	1P6	D	X	X	X	
1P1	H	E18B18	1MT2P1	A	X	X	X	
1P1	J	E16A18	1MT2P1	B	X	X	X	
1P1	J	E39A18N	1TB1	4	X	X	X	
1P1	L	E1A18	1P6	E			X	
1P1	L	E1A18N	1TB1	3	X	X	X	
1P1	M	E2A18	1P6	F	X	X	X	
1P1	N	E26A18	1P6	G			X	
1P1	N	W74D18	1S14P1	A	X	X	X	
1P1	N	E26A18N	1TB1	3	X	X		
1P1	P	E27A18	1P6	H	X	X	X	
1P1	P	W84B18	1P3	B	X	X	X	
1P1	R	J3C18	SPLICE		X	X	X	
1P1	R	W108C18	1P3	C	X	X	X	
1P1	S	W107F18	1P3	D	X	X	X	
1P1	T	Q4F18	1P6	L	X	X	X	
1P1	U	Q27B16N	1TB1	2	X	X	X	
1P1	V	Q3C18	1P6	M	X	X	X	
1P1	X	E15B18	1P6	P	X	X	X	
1P2	A	W78D20	1S9P1	A	X	X	X	
1P2	B	W7C20	1E3		X	X	X	
1P2	C	D4A20	1MT4P1	B	X	X	X	
1P2	D	D5A20	1MT4P1	C	X	X	X	
1P2	E	D6B20	1MT4P1	A	X	X	X	
1P2	F	D7B20	1MT4P1	D	X	X	X	
1P2	G	W80D20	1S8		X	X	X	
1P2	H	D14A20	1RT1P1	B	X	X	X	
1P2	J	D1A20	1G1P1	A			X	
1P2	J	D1A20N	GND		X	X	X	
1P2	K	D2A20	1G1P1	B	X	X	X	
1P2	N	D16A20N	GND		X	X	X	
1P2	P	W70B20	1S10		X	X	X	
1P3	A	W106B18N	1TB1	1.	X	X	X	
1P3	B	W84B18	1P1	P	X	X	X	
1P3	C	W108C18	1P1	R	X	X	X	
1P3	D	W107F18	1P1	S	X	X	X	
1P3	E	W109B18	1B1P1	A	X	X	X	
1P3	F	W110C18	1B1P1	B	X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
1P4	A	P26A1	1MG1	B +	x	x	x	
1P4	B	K4D4	1MG1	C	x	x	x	
1P4	C	K4B4	1MG1	C	x	x	x	
1P4	D	K5A1	1MG1	E -	x	x	x	
1P4	E	P26C4	1MG1	B +	x	x	x	
1P4	F	K5C4	1MG1	E -	x	x	x	
1P5	A	E40A - CHROMEL	ENGINE		x		x	
1P5	B	E41A - ALUMEL	ENGINE		x		x	
1P6	C	Q27A16N	1TB1	2	x	x	x	
1P6	D	H3C18	1P1	H	x	x	x	
1P6	E	E1A18	1P1	L			x	
1P6	F	E2A18	1P1	M	x	x	x	
1P6	G	E26A18	1P1	N	x	x	x	
1P6	H	E27A18	1P1	P	x	x	x	
1P6	J	J3F18	SPLICE				x	
1P6	K	J3D18	SPLICE		x	x	x	
1P6	L	Q4F18	1P1	T	x	x	x	
1P6	M	Q3C18	1P1	V	x	x	x	
1P6	N	E14A18N	1TB1	4	x	x	x	
1P6	P	E15B18	1P1	x	x	x	x	
1Q6	J	J3E18	SPLICE		x	x		
1RT1P1	A	D17A20N	GND		x	x	x	
1RT1P1	B	D14A20	1P2	H	x	x	x	
1S1	1	W23B22	1A1P1	D	x	x	x	
1S1	2	W24B22	1A1P1	C	x	x	x	
1S1	3	W25A22	1S1	4	x	x	x	
1S1	4	W25A22	1S1	3	x	x	x	
1S1	5	W26A22N	GND		x	x	x	
1S4P1	A	W87B22	1TB4	1	x	x	x	
1S4P1	B	W89A22N	GND		x	x	x	
1S5P1	A	W88B22	1TB4	3	x	x	x	
1S5P1	B	W90A22N	GND		x	x	x	
1S6P1	A	W76C22	SPLICE		x		x	
1S6P1	B	W82A22N	GND		x	x	x	
1S7P1	A	W68A22	8TB4	H10		x	x	
1S7P1	A	W68A22	8TB4	F7	x			
1S7P1	B	W69A22N	GND		x	x	x	
1S8		W80D20	1P2	G	x	x	x	
1S9P1	A	W78D20	1P2	A	x	x	x	
1S9P1	B	W79A20N	GND		x	x	x	
1S10		W70B20	1P2	P	x	x	x	
1S11		W71E18	1S12		x	x	x	
1S12		W71E18	1S11		x	x	x	
1S12		W71D18	1P1	G	x	x	x	
1S13P1	A	W72D18	1P1	A	x	x	x	
1S13P1	B	W73A18N	1TB1		x	x	x	
1S14P1	A	W74D18	1P1	N	x	x	x	
1S14P1	B	W75A18N	1TB1		x	x	x	
1S16	1	W108A22	1A1P1	P	x	x	x	
1S16	1	J1C22	1A1P1	K	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
1S16	2	W107C22	1A1P1	N	x	x	x	
1S16	2	J2A22	1A1P1	L	x	x	x	
1S16	4	Q10A22	1A1P1	Z	x	x	x	
1S16	5	Q19C22	1A1P1	M	x	x	x	
1S16	6	Q11A22	1A1P1	A	x	x	x	
1S17	1	C14A20	1A1P1	W	x	x	x	
1S17	2	C12C20	1A1P1	F	x	x	x	
1S17	3	C13A20	1A1P1	G	x	x	x	
1S20P1	B	W81A22N	GND		x	x	x	
1S20P1	C	W77C22	SPLICE		x	x	x	
1S22	1	C4A22	22A1J1	W	x	x	x	
1S22	2	C2E22	22A1J1	U	x	x	x	
1S22	3	C3A22	22A1J1	V	x	x	x	
1S23	1	C4G22	5A1J1	V	x	x	x	
1S23	2	C2F22	5A1J1	T	x	x	x	
1S23	3	C3D22	5A1J1	U	x	x	x	
1S24	L1	C29A8	1K4	A1	x	x	x	
1S24	L2	C30A8	1B2P1	B	x	x	x	
1S24	S1	C3G22	SPLICE		x	x	x	
1S24	S2	C33A22	1K4	X1		x	x	
1S24	S2	C38A22N	GND				x	
1S24	S2	BUS	1K4	X1	x			
1S24	S3	C33A22	1K4	X1			x	
1S24	S3	C38A22N	GND		x	x	x	
1S28	1	Q3A22	1A2P1	Y	x	x	x	
1S28	2	Q2C22	1A2P1	Z	x	x	x	
1S28	3	W101A22	1A2P1	X	x	x	x	
1S28	3	Q4C22	1A2P1	W	x	x	x	
1S29	C(1)	Q24C22	1A2P1	H	x	x	x	
1S29	C(2)	Q25C22	1A2P1	F	x	x	x	
1S29	NO(1)	Q1J22	1A2P1	G	x	x	x	
1S29	NO(1)	Q1K22	1S29	NO(2)	x	x	x	
1S29	NO(2)	Q1K22	1S29	NO(1)	x	x	x	
1S30	1	Q7D22	1A2P1	P	x	x	x	
1S30	2	Q6F22	1A2P1	N	x	x	x	
1S31	1	H3A20	1A2P1	M	x	x	x	
1S31	2	H2C20	1A2P1	L	x	x	x	
1S32	1	Q2A22	1A1P1	X	x	x	x	
1S32	2	Q1D22	1A1P1	H	x	x	x	
1S32	3	Q4A22	1A1P1	Y	x	x	x	
1S32	3	Q4D22	1A1P1	J	x	x	x	
1S33	7	Q14A18	1A1P2	K	x	x	x	
1S33	8	Q13C18	1A1P2	J	x	x	x	
1S33	10	Q16A18	1A1P2	M	x	x	x	
1S33	11	Q15C18	1A1P2	L	x	x	x	
1S34	1	H2A20	1A1P2	B				
1S34	2	H1C20	1A1P2	A	x	x	x	
1S35	C(1)	Q22A22	4A2P1	D	x	x	x	
1S35	C(2)	Q23A22	4A2P1	E	x	x	x	
1S35	NC(1)	Q24A22	4A2P1	F				

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
1S35	NC(2)	Q25A22	4A2P1	Y	x	x	x	
1S35	NO(1)	Q1F22	4A2P1	C	x	x	x	
1S35	NO(1)	Q1G22	1S35	NO(2)	x	x	x	
1S35	NO(2)	Q1G22	1S35	NO(1)	x	x	x	
1S36	1	J3A22	4A2P1	L	x	x	x	
1S36	3	J4C22	4A2P1	K	x	x	x	
1S36	4	K2A22	4A2P1	M	x	x	x	
1S36	6	K1C22	4A2P1	J	x	x	x	
1S37		Q7A22	4A2P1	A	x	x	x	
1S37		Q6E22	4A2P1	B	x	x	x	
1S38		E35B22	22A1J1	P	x	x	x	
1S38		E34B22	22A1J1	R	x	x	x	
1S39	C	J4A22	4A1P1	S	x	x	x	
1S39	2	J2C22	4A1P1	R	x	x	x	
1S100	5	E100D20****	1S100	2	x	x		
1S101P1	A	E11020N****	GND		x	x		
1TB1	1	W100A18N	1B1P1	E	x	x	x	
1TB1	1	W73A18N	1S13P1	B	x	x	x	
1TB1	1	W75A18N	1S14P1	B	x	x	x	
1TB1	1	W106B18N	1P3	A	x	x	x	
1TB1	2	Q26A18N	1B3	GND	x	x	x	
1TB1	2	Q27B16N	1P1	U	x	x	x	
1TB1	2	Q27A16N	1P6	C	x	x	x	
1TB1	2	H44A20N	10L1P1	6	x	x	x	
1TB1	3	E1A18N	1P1	L	x	x	x	
1TB1	3	E26A18N	1P1	N	x	x		
1TB1	4	E39A18N	1P1	J	x	x	x	
1TB1	4	E14A18N	1P6	N	x	x	x	
1TB3	A1	E12D22	1M6P1	C	x	x	x	
1TB3	A2	F15D22	1M10P1	P	x	x	x	
1TB3	A3	E42D22	1M12P1	C	x	x	x	
1TB3	A4	E22A22N	1M4P1	K	x	x	x	
1TB3	A5	E45A22N	1TB3	E6	x	x	x	
1TB3	A6	E44A22N	GND		x			
1TB3	A6	E44A20N	GND		x	x	x	
1TB3	A7	E26C22	1M2P1	B	x	x	x	
1TB3	A8	E38A22	1M8P1	COAX	x	x	x	
1TB3	A9	L6B22	10A1J1	L	x	x	x	
1TB3	B1	E12C22	1M7P1	C	x	x	x	
1TB3	B2	F15C22	1M5P1	P	x	x	x	
1TB3	B3	E42C22	1M2P1	C	x	x	x	
1TB3	B4	E21A22N	1M6P1	D	x		x	
1TB3	B5	E33A22N	1M12P1	D	x	x	x	
1TB3	B7	E26D22	1M12P1	B	x	x	x	
1TB3	B8	E38B22	1Z1P3		x	x	x	
1TB3	B9	L6C22	8R1		x	x	x	
1TB3	B16	W93A22	1Z3P1	C	x	x	x	
1TB3	C1	E12B22	2A1J2	W	x	x	x	
1TB3	C2	F15B22	2A1J2	M	x	x	x	
1TB3	C3	E42B22	2A1J2	LL	x	x	x	
1TB3	C4	E20A22N	1M7P1	D	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
1TB3	C5	E32A22N	1M13P1	F	x	x	x	
1TB3	C7	E26B22	1J1	N	x	x	x	
1TB3	C8	E38C22	1Z2P2		x	x	x	
1TB3	C9	P6D22	2XK3	X2			x	
1TB3	D1	Q1H22	1A2J1	G	x	x	x	
1TB3	D2	E10D22	1M14P1	J	x	x	x	
1TB3	D3	E2C22	1M3P1	A	x	x	x	
1TB3	D4	E34A22N	22A1P1	R	x	x	x	
1TB3	D5	D3A22N	1M3P1	F	x	x	x	
1TB3	D6	E48A22N	1M8P1	J	x	x	x	
1TB3	D7	D1C22	1M3P1	D	x	x	x	
1TB3	D8	D2C22	1M3P1	C	x	x	x	
1TB3	D9	P6B22	1A2J1	A			x	
1TB3	E1	Q1C22	1A1J1	H	x	x	x	
1TB3	E2	E10C22	1M4P1	J	x	x	x	
1TB3	E3	E2B22	1J1	M	x	x	x	
1TB3	E4	E46A20N	GND		x	x	x	
1TB3	E6	E45A22N	1TB3	A5	x	x	x	
1TB3	E7	D1B22	1J2	J	x	x	x	
1TB3	E8	D2B22	1J2	K	x	x	x	
1TB3	E9	P6A22	19K1P1	D			x	
1TB3	F1	E3C22	1M3P1	E	x	x	x	
1TB3	F2	E24C22	1M1P1	C	x	x	x	
1TB3	F3	E1C22	1M3P1	B	x	x	x	
1TB3	F4	E29A22	1TB3	K5	x	x	x	
1TB3	F4	F29A22	1TB3	K5			x	
1TB3	F5	F19A22N	1M10P1	A	x	x	x	
1TB3	F7	E27C22	1M2P1	A	x	x	x	
1TB3	F8	E36A22	1M8P1	H	x	x	x	
1TB3	F9	L7B22	10A1J1	M	x	x	x	
1TB3	G1	E3D22	1M13P1	E	x	x	x	
1TB3	G2	E24D22	1M11P1	C	x	x	x	
1TB3	G3	E1D22	1M13P1	B	x	x	x	
1TB3	G4	E28A22N	1M11P1	D	x	x	x	
1TB3	G5	F18A22N	1M10P1	M	x	x	x	
1TB3	G6	D9A22N	SPLICE		x	x	x	
1TB3	G7	E27D22	1M12P1	A	x	x	x	
1TB3	G8	E36B22	1Z1P1		x	x	x	
1TB3	G9	L7C22	21P2	A	x	x	x	
1TB3	H1	E3B22	2A1J2	JJ	x	x	x	
1TB3	H2	E24B22	2A1J2	N	x	x	x	
1TB3	H3	E1B22	1J1	L	x	x	x	
1TB3	H4	E11A22N	1M14P1	K	x	x	x	
1TB3	H5	F17A22N	1M5P1	a	x	x	x	
1TB3	H6	D15A22N	1M6P1	H	x	x	x	
1TB3	H7	E27B22	1J1	P	x	x	x	
1TB3	H8	E36C22	1Z2P1		x	x	x	
1TB3	H9	L7E22	21J1	A		x	x	
1TB3	H9	L7E22	8DS1		x			

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
1TB3	J1	Q1B22	2A1J2	R	x	x	x	
1TB3	J2	W42A22	1M4P1	E	x	x		
1TB3	J3	E2D22	1M13P1	A	x	x	x	
1TB3	J4	E25A22N	1M1P1	D	x	x	x	
1TB3	J5	F16A22N	1M5P1	M	x	x	x	
1TB3	J6	E13A22N	1M7P1	H	x	x	x	
1TB3	J7	D1D22	1M13P1	D	x	x	x	
1TB3	J8	W124A22	1Z3P1	N	x	x		
1TB3	J9	L8A22	8R1		x	x	x	
1TB3	K1	Q1E22	4A2J1	C	x	x	x	
1TB3	K2	E10B22	2A1J2	KK	x	x	x	
1TB3	K3	W123A22	1Z3P1	P	x	x	x	
1TB3	K4	E23A22N	1M2P1	D	x	x	x	
1TB3	K5	E29A22	1TB3	F4	x	x	x	
1TB3	K5	F29A22	1TB3	F4			x	
1TB3	K6	E39B20N	1J1	J	x	x	x	
1TB3	K8	D2D22	1M13P1	C	x	x	x	
1TB3	K9	L8B22	10P1	C	x	x	x	
1TB4	1	W87A22	8A2P1	N	x	x	x	
1TB4	1	W87B22	1S4P1	A	x	x	x	
1TB4	2	W33A22	1K1	X2	x	x	x	
1TB4	3	W88A22	8A2P1	S	x	x	x	
1TB4	3	W88B22	1S5P1	A	x	x	x	
1TB5	1	W84D18	1K6	X2	x	x	x	
1TB5	2	W106A18N	1J3	A	x	x	x	
1TB6	1	Q14B18	1A1J2	K	x	x	x	
1TB6	2	Q46A18N	GND		x	x	x	
1TB6	3	W35A22	1K1	B1	x	x	x	
1TB6	4	W34A22	1K1	B3	x	x	x	
1TB7	1	Q16B18	1A1J2	M	x	x	x	
1TB7	2	Q47A18N	GND		x	x	x	
1TB7	3	W36A22	1K1	B2	x	x	x	
1TB7	4	W37D22	1K1	A	x	x	x	
1TB7	4	W37C22	SPLICE		x	x	x	
1TB10	A1	F6A22(BLU)	4Z1P1	P	x		x	
1TB10	A1	F6A22(ORN)	4Z1P1	P		x		
1TB10	A2	F3A22(BLU)	4Z1P1	F	x		x	
1TB10	A2	F6A22(WHT)	4Z1P1	R		x		
1TB10	A3	F3A22(BLU)	4Z1P1	E		x		
1TB10	B1	F6B22(BLU)	4M1P1	C	x		x	
1TB10	B1	TG435A22(ORN)	20P327	AA	x	x		
1TB10	B2	F3B22	4M1P1	E	x		x	
1TB10	B2	TG435A22(WHT)	20P327	Z	x	x		
1TB10	B3	TG432A22(BLU)	20P327	X	x	x		
1TB10	B4	F21B22	4M1P1	R	x	x	x	
1TB101	C1	A1238A22(ORN)	16A1P3	23		x		
1TB10	C1	TG435A22(BLU)	20P327	AA			x	
1TB10	C2	TG432A22(BLU)	20P327	X			x	
1TB10	C2	A1238A22(WHT)	16A1P3	14		x		
1TB10	C3	A1237A22(BLU)	16A1P3	18		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
1TB10	C4	F21A22	4Z2P1	<u>D</u>	x	x	x	
1TB10	C5	C8D20	9L3J1	<u>A</u>		x		
1TB10	D1	F6B22	4M1P1	<u>A</u>	x		x	
1TB10	D2	F3B22(WHT)	4M1P1	<u>D</u>	x			
1TB10	D6	4371A22	22A5P1	<u>158</u>		x		
1TB10	E1	F6B22(ORN)	4M1P1	<u>C</u>		x		
1TB10	E1	TG435A22(WHT)	20P327	<u>Z</u>			x	
1TB10	E2	F6B22(WHT)	4M1P1	<u>A</u>		x		
1TB10	E3	F3B22(BLU)	4M1P1	<u>E</u>		x		
1TB10	E3	C41A20N	GND		x			
1TB10	E5	C41A20N	GND			x	x	
1TB10	E6	A84A22N	GND			x		
	(SHLD)							
1TB10	E6	A1116A22	16DS1P1	<u>EE</u>		x		
1TB10	F1	F6B22(ORN)	4M1P1	<u>B</u>	x		x	
1TB10	F1	F6A22(BLU)	4Z1P1	<u>H</u>		x		
1TB10	F2	F3B22(ORN) (SHLD)	4M1P1	<u>E</u>	x		x	
1TB10	F2	F3A22(ORN)	4Z1P1	<u>F</u>		x		
1TB10	F3	F3A22(WHT)	4Z1P1	<u>D</u>		x		
1TB10	F3	C8A20	5A2J1	<u>P</u>	x		x	
1TB10	F4	F20A22	4M1P1	<u>P</u>	x	x	x	
1TB10	F5	C8A20	5A2J1	<u>P</u>		x		
1TB10	G1	TG435A22(BLU)	20P327	<u>BB</u>	x	x		
1TB10	G1	TB435A22(ORN)	20P327	<u>BB</u>			x	
1TB10	G2	TG432A22(ORN)	20P327	<u>Y</u>	x	x	x	
1TB10	G3	TG432A22(WHT)	20P327	<u>W</u>	x	x		
1TB10	G4	F20B22	4Z2P1	<u>C</u>	x	x	x	
1TB10	G5	C8B20	9L1P1	<u>A</u>		x		
1TB10	H1	F6A22	4Z1P1	<u>H</u>	x		x	
1TB10	H1	A1238A22(BLU)	16A1P3	<u>24</u>		x		
1TB10	H2	F3A22(ORN)	4Z1P1	<u>E</u>	x		x	
1TB10	H2	A1237A22(ORN)	16A1P3	<u>17</u>		x		
1TB10	H3	A1237A22(WHT)	16A1P3	<u>16</u>		x		
1TB10		A84A22N	GND			x		
	(SHLD)							
1TB10	H5	C8C20	9L2P1	<u>A</u>		x		
1TB10	J1	F6A22	4Z1P1	<u>R</u>	x		x	
1TB10	J2	TG432A22(WHT)	20P327	<u>W</u>			x	
1TB10	K1	F6B22(BLU)	4M1P1	<u>B</u>		x		
1TB10	K2	F3B22(ORN)	4M1P1	<u>F</u>		x		
1TB10	K2	F3B22(ORN)	4M1P1	<u>F</u>		x		
1TB10	K3	F3B22(WHT)	4M1P1	<u>D</u>		x		
1TB10	K6	L197J22	8TB7	<u>D2</u>		x		
1TB13	3	A48B20	5A1P1	<u>J</u>	x	x		
1TB13	3	A308B20	3A1J1	<u>KK</u>			x	
1TB13	4	A308C20	20J2	<u>A</u>	x			
1TB13	4	A308A20	SPLICE		x	x		
1TB13	4	A76D20	4A2J1	<u>V</u>			x	
1TB13	4	A308C20	SPLICE				x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
1TB13	5	A308C20	20J2	A		X		
1TB13	5	A76A20	SPLICE				X	
1TB13	5	A20E20	SPLICE		x	X		
1TB13	6	A271A20	21CB5				X	
1TB13	6	A271B20	5A1P1	X			X	
1TB14	1	E14B - ALUMEL	1J5	B		X		
1TB14	1	E41C - ALUMEL	1M11P1	U		X		
1TB14	1	E41D - ALUMEL	1M1P1	U		X		
1TB14	2	E40B - CHROMEL	1J5	A		X		
1TB14	2	E40C - CHROMEL	1M11P1	T		X		
1TB14	2	E40D - CHROMEL	1M1P1	T		X		
1XK1	X1	W32B22****	2A1J1					
1XK5	A2	TG370A22	20L1P1	A	x	X	X	
1XK5	A3	TG365B22	SPLICE		x	X	X	
1XK5	B2	A301C20	SPLICE				X	
1XK5	B2	A301C20	19A1J1	B	x			
1XK5	B3	A314A20	19L1P1	A	x		X	
1XK5	C1	C3F22	SPLICE		x	X	X	
1XK5	C2	C4F22	SPLICE		x	X	X	
1XK5	X1	C4E22	SPLICE		x	X	X	
1XK5	X2	C18A22	8TB4	G10	x	X	X	
1Z1P1		E36B22	1TB3	G8	x	X	X	
1Z1P1		E37A22	1M8P1	D	x	X	X	
1Z1P3		E38B22	1TB3	B8	x	X	X	
1Z2P1		E36C22	1TB3	H8	x	X	X	
1Z2P2		E38C22	1TB3	C8	x	X	X	
1Z3P1	B	W23A22	1A1J1	D	x	X	X	
1Z3P1	C	W93A22	1TB3	B6	x	X	X	
1Z3P1	D	W27A22N	GND		x	X	X	
1Z3P1	H	W18B22	2A1J1	V	x	X	X	
1Z3P1	N	W124A22	1TB3	J8	x	X		
1Z3P1	P	W123A22	1TB3	K3	x	X	X	
1Z3P1	R	W122A22	2301TB2	1	x	X	X	
1Z3P1	T	W24A22	1A1J1	C	x	X	X	
1Z3P1	J	W17A22	8TB4	B9	x	X	X	
1Z3P1	V	W121A22	2301TB1	1	x	X	X	
10A1J1**	A	L901A20	NVG PL CB		x	X	X	
10A1J1	A	L195W22	8TB4	A3	x	X	X	
10A1J1	B	H67B22	10J2	A	x	X	X	
10A1J1	C	H66B22	2A1J1	E	x	X	X	
10A1J1	D	H21B22	10XK1	B2	x	X	X	
10A1J1	E	H49D22	2A1J1	F	x	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
10A1J1***	F	L901D20	TB1	2	x	x	x	
10A1J1	F	H18B22	SPLICE		x	x	x	
10A1J1	G	H43B22	10Z1P1	F	x	x	x	
10A1J1	H	H42B22	10Z1P1	G	x	x	x	
10A1J1	J	L10B22	2A1J1	B	x	x	x	
10A1J1	J	H41B22	10Z1P1	H	x	x	x	
10A1J1	K	L11B22	8J3	B	x	x	x	
10A1J1	L	L6B22	1TB3	A9	x	x	x	
10A1J1	M	L7B22	1TB3	F9	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
10A1J1	N	L1B22	2A1J1	A		X		
10A1J1	P	L2B22	8Z1	B	X	X	X	
10A1J1	R	L3B22	8Z1P1	C		X	X	
10A1J1	R	L3B22	8Z1	C	X			
10A1J1	X	A1049B22	3A1J2	Y		X		
10A1J1	Y	A1256B22	SPLICE			X		
10A1J1	Z	L217B22N	GND			X	X	
10A1P1***	A	L901B20	NVG PL SV	11	X	X	X	
10A1P1	A	L195X22	8J105			X		
10A1P1	A	L195X22	10R1	CCW			X	
10A1P1	B	H67A22	10S1	2	X	X	X	
10A1P1	C	H66C22	10S1	1	X	X	X	
10A1P1	D	H21A22	10S2	1	X	X	X	
10A1P1	E	H49E22	10S2	2	X	X	X	
10A1P1***	F	L901C20	NVG PL SW	16	X	X	X	
10A1P1	F	H18A22	10S2	3	X	X	X	
10A1P1	G	H43A22	10R1	1	X	X	X	
10A1P1	H	H42A22	10R1	2	X	X	X	
10A1P1	J	L10C22	8S3	2	X	X	X	
10A1P1	J	H41A22	10R1	3	X	X	X	
10A1P1	K	L11A22	8S3	1	X	X	X	
10A1P1	M	L7A22	8S2	1	X	X	X	
10A1P1	L	L6A22	8S2	3	X	X	X	
10A1P1	N	L1C22	8S1	5	X	X	X	
10A1P1	P	L2A22	8S1	4	X	X	X	
10A1P1	R	L3A22	8S1	2	X	X	X	
10A1P1	X	A1049C22	10S1	5		X		
10A1P1	y	A1256A22	10S1	4		X		
10A1P1	Z	L217A22N	GND			X	X	
10B1P1	1	H46A22	10Z1P1	M	X	X	X	
10B1P1	3	H45A22	10Z1P1	L	X	X	X	
10B2P1	A	H56B12	10J1	B		X	X	
10B2P1	A	H56B12	10J1	H	X			
10B2P1	B	H57A12N	GND		X	X	X	
10B3	T1	H28A20	GND		X	X	X	
10B3	T4	H26B20	SPLICE		X	X	X	
10B3	T5	H27A20	SPLICE		X	X	X	
10CB1		H49A22	2A1P1	G	X	X	X	
10CB1		H49C22	2A1P1	F	X	X	X	
10CB2		H66A22	2A1P1	E	X	X	X	
10CB3		H60A22	2A1P1	E	X			
10CB3		H60A22	2A1P1	D			X	
10CB3		A344C20	19CB2		X	X		
10CB3		H60A22	3A1P1	E				
10CB3		A344B20	3A1P1	F	X	X		
10CB4		H25A20	3A1P1	GG	X	X	X	
10CR1		H63A22	10J1	A	X			
10CR1		H70B22	10J1	B	X			
10CR1		H64A22	10s4		X	X	X	
10CR1		H63A22	10J1	G			X	
10CR1	+	H70C22	10S4		X	X	X	
10CR1	+	H70B22	10J1	H		X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
10HR1P1	A	H67C22	10P2	A	x	x	x	
10HR1P1	B	H68A22N	10P2	B	x	x	x	
10J1	A	W9C20	1E2		x	x		
10J1	A	H63A22	10CR1		x			
10J1	B	H70B22	10CR1		x			
10J1	B	H56B12	10B2P1	A		x	x	
10J1	C	L8C22(WHT)	8TB1	1	x	x	x	
10J1	D	L8C22(BLU)	8TB1	2	x	x	x	
10J1	E	W8C20	1E1		x	x	x	
10J1	F	W9C20	1E2				x	
10J1	F	TG4B10	20TB1	3	x		x	
10J1	G	H63A22	10CR1				x	
10J1	H	H56B12	10B2P1	A	x			
10J1	H	H70B22	10CR1	A		x	x	
10J1	I	H61B12N	GND			x		
10J2	A	H67B22	10A1J1	B	x	x	x	
10J2	B	H68B22N	GND		x	x	x	
10J2	C	H69B20N	GND		x	x	x	
10K1	B3	H37A22	SPLICE		x	x	x	
10K1	X2	H47A22	10TB1	1	x	x		
10K2	A1	H80A12	10S5	L1	x			
10K2	A1	H80A12	10S5	L2		x		
10K2	A2	H59A12	2K4	A2			x	
10K2	A2	P70A12	20CB1	TOW PWR		x		
10K2	A2	P70A12	28VDC ESS BUS		x			
10K2	X1	H62A22	10S5	S2	x	x	x	
10K2	X2	H65A22N	GND		x	x	x	
10L1P1	3	H37D20	1P1	A	x	x	x	
10L1P1	6	H44A20N	1TB1	2	x	x	x	
10L4P1	A	H20A22	10S7		x	x	x	
10L4P1	B	H22A22N	GND			x		
10L4P1	C	H22A22N	GND		x		x	
10P1	A	W9B20	8TB4	C6	x	x		
10P1	A	H63B22	10S5	S1	x			
10P1	B	H56A12	10S5	L1		x	x	
10P1	C	L8B22	1TB3	K9	x	x	x	
10P1	D	L151A22N	GND		x	x	x	
10P1	E	W8B20	8TB4	H6	x	x	x	
10P1	F	TG4A10	20CB1		x			
10P1	F	W9B20	8TB4	C6			x	
10P1	G	H63B22	10S5	S1		x	x	
10P1	H	H70A22	22A5P1	67		x		
10P1	H	H56A12	10S5	L2	x			
10P1	H	H70A22	20XK1	B2				
10P1	H	H70A22	3K4	E2			x	
10P1	I	H61A12N	GND			x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
10P2	A	H67C22	10HR1P1	A	x	x	x	
10P2	B	H68A22N	10HR1P1	B	x	x	x	
10P2	C	H69A20N	GND		x	x	x	
10R1	1	H43A22	10A1P1	<u>G</u>	x	x	x	
10R1	2	H42A22	10A1P1	<u>H</u>	x	x	x	
10R1	3	H41A22	10A1P1	<u>J</u>	x	x	x	
10R1	CCW	L195X22	10A1J1	<u>A</u>			x	
10S6		H25B20	3A1J1	GG	x	x	x	
10S1	1	H66C22	10A1P1	<u>C</u>	x	x	x	
10S1	2	H67A22	10A1P1	<u>B</u>	x	x	x	
10S1	4	A1256A22	10A1P1	<u>Y</u>		x		
10S1	5	A1049C22	10A1P1	X		x		
10S2	1	H21A22	10A1P1	<u>D</u>	x	x	x	
10S2	2	H49E22	10A1P1	<u>E</u>	x	x	x	
10S2	3	H18A22	10A1P1	<u>E</u>	x	x	x	
10S3		H47A22	10XK1	X2			x	
10S3		H48A22N	GND				x	
10S4		H64A22	10CR1		x	x	x	
10S4		H70C22	10CR1	+	x	x	x	
10S5	L1	H56A12	10P1	B		x	x	
10S5	L1	H80A12	10K2	A1	x			
10S5	L2	H80A12	10K2	A1		x		
10S5	L2	H56A12	10P1	H	x			
10S5	S1	H63B22	10P1	A	x			
10S5	S1	H63B22	10P1	G		x	x	
10S5	S2	H62A22	10K2	X1	x	x	x	
10S5	S3	H71A22N	GND		x	x	x	
10S6		H26A20	SPLICE		x	x	x	
10S7		H18D22	SPLICE		x	x	x	
10S7		H20A22	10L4P1	A	x	x	x	
10TB1	1	H47A22	10K1	X2	x	x		
10TB1	2	H48A22N	GND		x	x		
10XK1	A2	H18C22	SPLICE		x	x	x	
10XK1	A3	H19A22	SPLICE		x	x	x	
10XK1	B2	H21B22	10A1J1	<u>D</u>	x	x	x	
10XK1	X1	H49B22	2A1J1	G	x	x	x	
10XK1	X2	H47A22	10S3				x	
10Z1P1	A	H37B22	SPLICE		x	x	x	
10Z1P1	B	H39A22	10Z1P1	C	x	x	x	
10Z1P1	C	H39A22	10Z1P1	B	x	x	x	
10Z1P1	D	H40A22	10Z1P1	E	x	x	x	
10Z1P1	E	H40A22	10Z1P1	D	x	x	x	
10Z1P1	F	H43B22	10A1J1	<u>G</u>	x	x	x	
10Z1P1	G	H42B22	10A1J1	<u>H</u>	x	x	x	
10Z1P1	H	H41B22	10A1J1	J	x	x	x	
10Z1P1	J	H50A22	10Z1P1	K	x	x	x	
10Z1P1	K	H50A22	10Z1P1	J	x	x	x	
10Z1P1	L	H45A22	10B1P1	3	x	x	x	
10Z1P1	M	H46A22	10B1P1	1	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
10Z1P1	N	H38A22N	GND		X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.			REF. DES.	PIN	E	M	P	
16A1P1	A	A1140B20	3A1J2	V				
16A1P1	C	A1225A20N	GND			x		
16A1P1	D	A1226A20N	GND			x		
16A1P2	1	A1233A22	16TB1	H2		x		
16A1P2	13	A1234A22	16TB1	A5		x		
16A1P2	15	A1032A22	5A1P1	E		x		
16A1P2	20	ASN128-76B20(WHT)	SPLICE			x		
16A1P2	22	A1147A22(WHT)	18A1P1	56		x		
16A1P2	23	A1145A22(WHT)	18A1P1	46		x		
16A1P2	24	A1146A22(WHT)	18A1P1	47		x		
16A1P2	25	A114A22(WHT)	18A1P1	61		x		
16A1P2	26	A1187A22(WHT)	16A2P1	G		x		
16A1P2	27	A1097A22(WHT)	21A12P1	73		x		
16A1P2	28	A1027A22(WHT)	20A1J53	HH		x		
16A1P2	29	A1097A22(BLU)	21A12P1	72		x		
16A1P2	30	A1027A22(BLU)	20A1J53	CC		x		
16A1P2	31	A1236A22	16TB1	C8		x		
16A1P2	32	A1153A22	22A4P15	F		x		
16A1P2	33	A1152A22	22A4P15	G		x		
16A1P2	34	A469A22	19A5P2	R		x		
16A1P2	35	A1143A22	18A1P1	51		x		
16A1P2	37	A472A22	22A5P1	127		x		
16A1P2	42	A1231A22N	END CAP			x		
16A1P2	44	ASN128-76B20(BLU)	SPLICE			x		
16A1P2	46	A1147A22(BLU)	18A1P1	62		x		
16A1P2	47	A1145A22(BLU)	18A1P1	53		x		
16A1P2	48	A1146A2211(BLU)	18A1P1	48		x		
16A1P2	49	A1144A22(BLU)	18A1P1	65		x		
16A1P2	50	A1187A22(BLU)	16A2P1	D		x		
16A1P2	57	A1188A22	16A2P1	I		x		
16A1P2	58	A468B22	19TB4	J19		x		
16A1P2	59	A1093B22	22A2P1	H		x		
16A1P2	60	A1156A22	22A4P15	U		x		
16A1P2	61	A1155A22	22A4P15	T		x		
16A1P2	62	A1157A22	22A4P15	S		x		
16A1P2	64	A1228A22	19TB4	K15		x		
16A1P2	65	A1000A22	16TB1	E2		x		
16A1P2	67	A1034A22	22A3P1	E		x		
16A1P2	68	A1035A22	22A3P1	A		x		
16A1P2	69	A1094A22	22A2P1	M		x		
16A1P2	70	A1095A22	22A2P1	N		x		
16A1P2	73	A1232A22N	END CAP			x		
16A1P2	8	A1230A22N	END CAP			x		
16A1P3	1	A1164A22(WHT)	22A4P14	L		x		
16A1P3	10	A1173C22(WHT)	SPLICE			x		
16A1P3	11	A1173C22(BLU)	SPLICE			x		
16A1P3	12	1239A22(WHT)	16TB1	H9		x		
16A1P3	13	A1239A22(BLU)	16TB1	B8		x		
16A1P3	14	A1238A22(WHT)	1TB10	C2		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
16A1P3	15	A1171C22(BLU)	SPLICE					
16A1P3	16	A1237A22(WHT)	1TB10	H3		x		
16A1P3	17	A1237A22(ORN)	1TB10	H2		x		
16A1P3	18	A1237A22(BLU)	1TB10	C3		x		
16A1P3	19	A1098A22(WHT)	1M4P1	L		x		
16A1P3	2	A1164A22(BLU)	22A4P14	K		x		
16A1P3	20	A1098A22(BLU)	1M4P1	M		x		
16A1P3	23	A1238A22(ORN)	1TB10	C1		x		
16A1P3	24	A1238A22(BLU)	1TB10	H1		x		
16A1P3	29	A1088A22(WHT)	1408DS1P2	2		x		
16A1P3	3	A1165A22(WHT)	22A4P14	M		x		
16A1P3	30	A1088A22(BLU)	1408DS1P2	11		x		
16A1P3	31	A1170A22(WHT)	3TB2	D4		x		
16A1P3	32	A1170A22(BLU)	3TB2	B5		x		
16A1P3	33	A1241A22	END CAP			x		
16A1P3	33	A1241A22N	GND			x		
16A1P3	34	A1242A22N	END CAP			x		
16A1P3	34	A1242A22N	GND			x		
16A1P3	35	A1171B22(WHT)	SPLICE			x		
16A1P3	36	A1171B22(BLU)	SPLICE			x		
16A1P3	37	A1172B22(WHT)	SPLICE			x		
16A1P3	38	A1172B22(BLU)	SPLICE			x		
16A1P3	39	A1173B22(WHT)	SPLICE			x		
16A1P3	4	A1165A22(BLU)	22A4P14	N		x		
16A1P3	40	A1173B22(BLU)	SPLICE			x		
16A1P3	41	A1240A22(WHT)	16TB1	C9		x		
16A1P3	42	A1240A22(BLU)	16TB1	A8		x		
16A1P3	43	A1060A22(BLU)	3400TB1	J1C		x		
16A1P3	44	A1060A22(ORN)	3400TB1	K1		x		
16A1P3	45	A1060A22(WHT)	3400TB1	D1C		x		
16A1P3	46	A118A22(WHT)	16A9P1	B		x		
16A1P3	47	A1182A22(BLU)	SPLICE			x		
16A1P3	5	A1166A22(WHT)	22A4P14	P		x		
16A1P3	6	A1166A22(BLU)	22A4P14	R		x		
16A1P3	60	A1243A22N	END CAP			x		
16A1P3	60	A1243A22N	GND			x		
16A1P3	61	A1244A22N	GND			x		
16A1P3	61	A1244A22N	END CAP			x		
16A1P3	67	A1176A22(WHT)	22A4P13	<u>X</u>		x		
16A1P3	68	A1176A22(BLU)	22A4P13	<u>W</u>		x		
16A1P3	7	A1171C22(WHT)	SPLICE			x		
16A1P3	70	A1177A22(WHT)	22A4P13	<u>Y</u>		x		
16A1P3	71	A1177A22(BLU)	22A4P13	<u>Z</u>		x		
16A1P3	73	A1178A22(WHT)	22A4P13	BB		x		
16A1P3	74	A1178A22(BLU)	22A4P13	AA		x		
16A1P3	8	A1172C22(WHT)	SPLICE			x		
16A1P3	80	A1179A22(WHT)	22A4P13	<u>J</u>		x		
16A1P3	81	A1179A22(BLU)	22A4P13	<u>I</u>		x		
16A1P3	83	A1180A22(WHT)	22A4P13	<u>K</u>		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
16A1P3	84	A1180A22(BLU)	22A4P13	<u>M</u>		X		
16A1P3	86	A1181A22(WHT)	22A4P13	<u>N</u>		X		
16A1P3	87	A1181A22(BLU)	22A4P13	<u>P</u>		X		
16A1P3	9	A1172C22(BLU)	SPLICE			X		
16A2P1	<u>A</u>	A1135B22(WHT)	3A1J2	<u>S</u>		X		
16A2P1	<u>B</u>	TG301A22(WHT)	20P327	<u>K</u>		X		
16A2P1	<u>C</u>	TG301A22(BLU)	20P327	<u>J</u>		X		
16A2P1	<u>D</u>	A471A22	22ASP1	124		X		
16A2P1	<u>D</u>	A1187A22(BLU)	16A1P2	50		X		
16A2P1	<u>E</u>	A1190A22N	END CAP			X		
16A2P1	<u>E</u>	A1190A22N	GND			X		
16A2P1	EE	TG283A22	16TB1	A13		X		
16A2P1	<u>F</u>	TG306A22(ORN)	20P327	<u>U</u>		X		
16A2P1	<u>F</u>	TG309A22(WHT)	20P327	<u>N</u>		X		
16A2P1	<u>FF</u>	TG284A22	16TB1	F13		X		
16A2P1	<u>G</u>	A1187A22(WHT)	16A1P2	26		X		
16A2P1	<u>G</u>	TG303A22	20P327	GG		X		
16A2P1	<u>I</u>	A1188A22	16A1P2	57		X		
16A2P1	<u>J</u>	A1026A22(BLU)	20A1J53	<u>B</u>		X		
16A2P1	<u>J</u>	TG306A22(BLU)	20P327	<u>V</u>		X		
16A2P1	<u>K</u>	A1026A22(WHT)	20A1J53	<u>S</u>		X		
16A2P1	<u>K</u>	TG306A22(WHT)	20P327	<u>T</u>		X		
16A2P1	<u>M</u>	TG309A22(BLU)	20P327	<u>M</u>		X		
16A2P1	<u>M</u>	A1139D20N	SPLICE			X		
16A2P1	<u>N</u>	A1189A22	16TB1	F2		X		
16A2P1	<u>P</u>	A1114A22	22A5P1	10		X		
16A2P1	<u>Q</u>	TG304A22	20P327	HH		X		
16A2P1	<u>R</u>	A1139C20N	SPLICE			X		
16A2P1	<u>T</u>	A1138C20	SPLICE			X		
16A2P1	<u>U</u>	A1138D20	SPLICE			X		
16A2P1	<u>V</u>	TG299A22(WHT)	20A2P04	X		X		
16A2P1	<u>W</u>	A1135B22N(BLU)	END CAP			X		
16A2P1	<u>W</u>	TG299A22(BLU)	20A2P04	Y		X		
16A2P1	<u>X</u>	TG305A22	20P327	JJ		X		
16A2P1	<u>Y</u>	A1254A22	16XK17	1		X		
16A2P1	<u>Z</u>	A1252A22	16XK6	1		X		
16A2P2	AA	A1130A22(BLU)	16DS1P1	AA		X		
16A2P2	<u>B</u>	A1121A22(WHT)	16DS1P1	<u>B</u>		X		
16A2P2	<u>B</u>	A1120A22(WHT)	16DS1P1	<u>B</u>		X		
16A2P2	<u>C</u>	A1120A22(BLU)	16DS1P1	<u>C</u>		X		
16A2P2	CC	A1130A22(WHT)	16DS1P1	CC		X		
16A2P2	<u>D</u>	A1123A22(WHT)	16DS1P1	<u>D</u>		X		
16A2P2	<u>D</u>	A1121A22(BLU)	16DS1P1	<u>D</u>		X		
16A2P2	<u>E</u>	A1123A22(BLU)	16DS1P1	<u>E</u>		X		
16A2P2	<u>F</u>	A1123A22(ORN)	16DS1P1	<u>F</u>		X		
16A2P2	<u>FF</u>	A1124A22(ORN)	16DS1P1	<u>FF</u>		X		
16A2P2	<u>G</u>	A1133A22N	END CAP			X		
16A2P2	<u>G</u>	A1131A22(BLU)	16DS1P1	<u>G</u>		X		
16A2P2	<u>H</u>	A1131A22(WHT)	16DS1P1	<u>H</u>		X		

END		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN				
16A2P2	HH	A1124A22(WHT)	16DS1P1	HH		X		
16A2P2	J	A1125A22(WHT)	16DS1P1	J		X		
16A2P2	<u>J</u>	A1127A22(WHT)	16DS1P1	<u>J</u>		X		
16A2P2	<u>K</u>	A1125A22(BLU)	16DS1P1	<u>K</u>		X		
16A2P2	KK	A1132A22(WHT)	16DS1P1	KK		X		
16A2P2	LL	A1130A22(ORN)	16DS1P1	LL		X		
16A2P2	<u>M</u>	A1127A22(BLU)	16DS1P1	<u>M</u>		X		
16A2P2	<u>MM</u>	A1132A22(BLU)	16DS1P1	<u>MM</u>		X		
16A2P2	NN	A1124A22(BLU)	16DS1P1	NN		X		
16A2P2	P	A1126A22(BLU)	16DS1P1	P		X		
16A2P2	<u>P</u>	A1128A22(WHT)	16DS1P1	<u>P</u>		X		
16A2P2	<u>Q</u>	A1128A22(BLU)	16DS1P1	<u>Q</u>		X		
16A2P2	<u>R</u>	A1126A22(WHT)	16DS1P1	<u>R</u>		X		
16A2P2	<u>U</u>	A1122A22(WHT)	16DS1P1	<u>U</u>		X		
16A2P2	<u>V</u>	A1129A22(BLU)	16DS1P1	<u>V</u>		X		
16A2P2	<u>X</u>	A1122A22(ORN)	16DS1P1	<u>X</u>		X		
16A2P2	Y	A1122A22(BLU)	16DS1P1	Y		X		
16A2P2	<u>Y</u>	A1131A22(ORN)	16DS1P1	<u>Y</u>		X		
16A2P2	Z	A1129A22(WHT)	16DS1P1	Z		X		
16A3P1	1	A1066A20	16A4P2	17		X		
16A3P1	10	A1065A22N	GND			X		
16A3P1	11	A1071A22	16A4P2	30		X		
16A3P1	12	A1072A22	16A4P2	23		X		
16A3P1	13	A1075A22	16A4P2	37		X		
16A3P1	14	A1074A22	16A4P2	36		X		
16A3P1	15	A1073A22	16A4P2	22		X		
16A3P1	16	A1078A22	16A4P2	31		X		
16A3P1	17	A1077A22	16A4P2	35		X		
16A3P1	18	A1076A22	16A4P2	38		X		
16A3P1	19	A1081A22	16A4P2	29		X		
16A3P1	2	A1067A22	16A4P2	15		X		
16A3P1	20	A1080A22	16A4P2	33		X		
16A3P1	21	A1079A22	16A4P2	32		X		
16A3P1	3	A1068A22	16A4P2	9		X		
16A3P1	31	A1082A20	16A4P2	39		X		
16A3P1	4	A1069A22	16A4P2	1		X		
16A3P1	5	A1070A22	16A4P2	21		X		
16A3P1	6	A1083A22	16A4P2	25		X		
16A3P1	7	A1084A22	16A4P2	24		X		
16A3P1	8	A1085A22	16A4P2	26		X		
16A3P1	9	A1086A22	16A4P2	6		X		
16A3P2	1	A1062A22N	GND			X		
16A3P2	2	A1063A22	8TB4			X		
16A3P2	5	A106A22	8TB4	E4		X		
16A4P1	1	A1260A22(WHT)	3A1J1	K12		X		
16A4P1	4	A1260A22(WHT)	SPLICE	<u>H</u>		X		
16A4P1	4	A1260A22N(BLU)	GND			X		
16A4P1	4	A1260A22(BLU)	GND			X		
16A4P1	5	A1137B20(WHT)	3A1J2	P		X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
16A4P1	6	A1137B20N(BLU)	END CAP			X		
16A4P1	7	A1136B22(WHT)	3A1J2	T		X		
16A4P1	8	A1136B22N(BLU)	END CAP			X		
16A4P2	1	A1069A22	16A3P1	4		X		
16A4P2	15	A1067A22	16A3P1	2		X		
16A4P2	17	A1066A20	16A3P1	1		X		
16A4P2	21	A1070A22	16A3P1	5		X		
16A4P2	22	A1073A22	16A3P1	15		X		
16A4P2	23	A1072A22	16A3P1	12		X		
16A4P2	24	A1084A22	16A3P1	7		X		
16A4P2	25	A1083A22	16A3P1	6		X		
16A4P2	26	A1085A22	16A3P1	8		X		
16A4P2	29	A1081A22	16A3P1	19		X		
16A4P2	30	A1071A22	16A3P1	11		X		
16A4P2	31	A1078A22	16A3P1	16		X		
16A4P2	32	A1079A22	16A3P1	21		X		
16A4P2	33	A1080A22	16A3P1	20		X		
16A4P2	35	A1077A22	16A3P1	17		X		
16A4P2	36	A1074A22	16A3P1	14		X		
16A4P2	37	A1075A22	16A3P1	13		X		
16A4P2	38	A1076A22	16A3P1	18		X		
16A4P2	39	A1082A20	16A3P1	31		X		
16A4P2	6	A1086A22	16A3P1	9		X		
16A4P2	9	A1068A22	16A3P1	3		X		
16A4P3	1	A1220A20	16A5P1	36		X		
16A4P3	10	A1194A22(WHT)	16A5P1	36		X		
16A4P3	11	A1203A20(WHT)	16A5P1	45		X		
16A4P3	12	A1200A20(ORN)	16A5P1	12		X		
16A4P3	14	A1207A22(BLU)	16A5P1	32		X		
16A4P3	15	A1216A20	16A5P1	22		X		
16A4P3	16	A1218A20	16A5P1	21		X		
16A4P3	17	A1207A22(WHT)	16A5P1	33		X		
16A4P3	18	A1214A20	16A5P1	2		X		
16A4P3	19	A1208A20	16A5P1	24		X		
16A4P3	2	A1202A22(BLU)	16A5P1	9		X		
16A4P3	2	A1213A20	16A5P1	3		X		
16A4P3	20	A1209A20	16A5P1	26		X		
16A4P3	23	A1195A22(WHT)	16A5P1	30		X		
16A4P3	24	A1195A22(BLU)	16A5P1	9		X		
16A4P3	25	A1196A22(WHT)	16A5P1	32		X		
16A4P3	26	A1196A22(BLU)	16A5P1	26		X		
16A4P3	27	A1200A20(BLU)	16A5P1	13		X		
16A4P3	28	A1217A22(BLU)	16A5P1	5		X		
16A4P3	29	A1211A22(BLU)	16A5P1	41		X		
16A4P3	3	A1205A22(WHT)	16A5P1	49		X		
16A4P3	31	A1206A22(BLU)	16A5P1	31		X		
16A4P3	32	A1212A22	16A5P1	43		X		
16A4P3	33	A1217A22(WHT)	16A5P1	4		X		
16A4P3	34	A1198A22(BLU)	16A5P1	28		X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
16A4P3	35	A1198A22(WHT)	16A5P1	37		x		
16A4P3	36	A1211A22(WHT)	16A5P1	42		x		
16A4P3	37	A1202A22(WHT)	16A5P1	10		x		
16A4P3	38	A1210A20	16A5P1	8		x		
16A4P3	39	A1197A22(BLU)	16A5P1	27		x		
16A4P3	4	A1204A22	16A5P1	46		x		
16A4P3	40	A1197A22(WHT)	16A5P1	15		x		
16A4P3	41	A1206A22(WHT)	16A5P1	30		x		
16A4P3	42	A1201A22(BLU)	16A5P1	11		x		
16A4P3	43	A1201A22(WHT)	16A5P1	15		x		
16A4P3	44	A1199A22	16A5P1	6		x		
16A4P3	5	A1219A20	16A5P1	19		x		
16A4P3	54	A1215A22(WHT)	16A5P1	1		x		
16A4P3	55	A1215A22(BLU)	16A5P1	18		x		
16A4P3	6	A1200A20(WHT)	16A5P1	14		x		
16A4P3	7	A1203A20(BLU)	16A5P1	40		x		
16A4P3	8	A1205A22(BLU)	16A5P1	50		x		
16A4P3	9	A1194A22(BLU)	16A5P1	7		x		
16A5P1	END CAP	A1247A22N	GND			x		
16A5P1	1	A1162A22(WHT)	22A4P14	B		x		
16A5P1	1	A1215A22(WHT)	16A4P3	54		x		
16A5P1	10	A1175A22(BLU)	22A4P13	M		x		
16A5P1	10	A1202A22(WHT)	16A4P3	37		x		
16A5P1	11	A1201A22(BLU)	16A4P3	42		x		
16A5P1	12	A1174A22(BLU)	22A4P13	K		x		
16A5P1	12	A1200A20(ORN)	16A4P3	12		x		
16A5P1	13	A1200A20(BLU)	16A4P3	27		x		
16A5P1	14	A1200A20(WHT)	16A4P3	6		x		
16A5P1	14	A1175A22(WHT)	22A4P13	N		x		
16A5P1	15	A1197A22(WHT)	16A4P3	40		x		
16A5P1	15	A1201A22(WHT)	16A4P3	43		x		
16A5P1	16	A1174A22(WHT)	22A4P13	L		x		
16A5P1	18	A1215A22(BLU)	16A4P3	55		x		
16A5P1	19	A1219A20	16A4P3	5		x		
16A5P1	2	A1162A22(BLU)	22A4P14	A		x		
16A5P1	2	A1214A20	16A4P3	18		x		
16A5P1	20	A1161A22(BLU)	22A4P14	Y		x		
16A5P1	21	A1218A20	16A4P3	16		x		
16A5P1	21	A1161A22(WHT)	22A4P14	Z		x		
16A5P1	22	A1216A20	16A4P3	15		x		
16A5P1	24	A1208A20	16A4P3	19		x		
16A5P1	26	A1209A20	16A4P3	20		x		
16A5P1	26	A1196A22(BLU)	16A4P3	26		x		
16A5P1	27	A1197A22(BLU)	16A4P3	39		x		
16A5P1	28	A1198A22(BLU)	16A4P3	34		x		
16A5P1	29	A1193A22	16TB1	48		x		
16A5P1	3	A1213A20	16A4P3	2		x		
16A5P1	30	A1195A22(WHT)	16A4P3	23		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
16A5P1	30	A1206A22(WHT)	16A4P3	41		X		
16A5P1	31	A1192A22N	GND			X		
16A5P1	31	A1206A22(BLU)	16A4P3	31		X		
16A5P1	32	A1207A22(BLU)	16A4P3	14		X		
16A5P1	32	A1196A22(WHT)	16A4P3	25		X		
16A5P1	33	A1207A22(WHT)	16A4P3	17		X		
16A5P1	33	A1163A22(WHT)	22A4P114	<u>D</u>		X		
16A5P1	35	A1163A22(BLU)	22A4P14	<u>C</u>		X		
16A5P1	36	A1194A22(WHT)	16A4P3	10		X		
16A5P1	36	A1220A20	16A4P3	1		X		
16A5P1	37	A1198A22(WHT)	16A4P3	35		X		
16A5P1	4	A1217A22(WHT)	16A4P3	33		X		
16A5P1	40	A1203A20(BLU)	16A4P3	7		X		
16A5P1	41	A1211A22(BLU)	16A4P3	29		X		
16A5P1	42	A1211A22(WHT)	16A4P3	36		X		
16A5P1	43	A1212A22	16A4P3	32		X		
16A5P1	45	A1203A20(WHT)	16A4P3	11		X		
16A5P1	46	A1204A22	16A4P3	4		X		
16A5P1	49	A1205A22(WHT)	16A4P3	3		X		
16A5P1	5	A1217A22(BLU)	16A4P3	28		X		
16A5P1	50	A1205A22(BLU)	16A4P3	8		X		
16A5P1	6	A1199A22	16A4P3	44		X		
16A5P1	7	A1194A22(BLU)	16A4P3	9		X		
16A5P1	8	A1210A20	16A4P3	38		X		
16A5P1	9	A1202A22(BLU)	16A4P3	2		X		
16A5P1	9	A1195A22(BLU)	16A4P3	24		X		
16A9P1	A	A1183A22(WHT)	22A4P15	B		X		
16A9P1	B	A1182A22(WHT)	16A1P3	46		X		
16A9P1	C	A1182B22	SPLICE			X		
16CB1		A1135A22	3A1P2	S		X		
16CB2		A1136A22	3A1P2	T		X		
16CB2	1	A464A22	20CB4	2		X		
16CB3		A344E20	16CB4			X		
16CB3		A1140A20	3A1P2	V		X		
16CB4		A344E20	16CB3			X		
16CB4		A344F20	18CB1			X		
16CB4		A1138A20	3A1P2	U		X		
16CB5		A172G16	19CB8			X		
16CB5		A1137A20	3A1P2	P		X		
16CB6		A1028A16	3A1P2	W		X		
16CR4	C3	A1222A22	2CB9	5		X		
16CR4	F3	A1221A22	2CB10	5		X		
16DS1P1	AA	A1130A22(BLU)	16A2P2	AA		X		
16DS1P1	B	A1121A22(WHT)	16A2P2	B		X		
16DS1P1	<u>B</u>	A1120A22(WHT)	16A2P2	<u>B</u>		X		
16DS1P1	<u>C</u>	A1120A22(BLU)	16A2P2	<u>C</u>		X		
16DS1P1	CC	A1130A22(WHT)	16A2P2	CC		X		
16DS1P1	D	A1123A22(WHT)	16A2P2	D		X		
16DS1P1	<u>D</u>	A1121A22(BLU)	16A2P2	<u>D</u>		X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
16DS1P1	E	A1123A22(BLU)	16A2P2	E		x		
16DS1P1	EE	A1116A22	1TB10	E6		x		
16DS1P1	FF	A1124A22(ORN)	16A2P2	FF		x		
16DS1P1	<u>E</u>	A1123A22(ORN)	16A2P2	<u>E</u>		x		
16DS1P1	G	A1119A22N	GND			x		
16DS1P1	<u>G</u>	A1131A22(BLU)	16A2P2	<u>G</u>		x		
16DS1P1	HH	A1124A22(WHT)	16A2P2	HH		x		
16DS1P1	<u>J</u>	A1131A22(WHT)	16A2P2	<u>H</u>		x		
16DS1P1	<u>J</u>	A1125A22(WHT)	16A2P2	<u>J</u>		x		
16DS1P1	<u>K</u>	A1127A22(WHT)	16A2P2	<u>K</u>		x		
16DS1P1	KK	A1125A22(BLU)	16A2P2			x		
16DS1P1	LL	A1132A22(WHT)	16A2P2	KK		x		
16DS1P1	MM	A1130A22(ORN)	16A2P2	LL		x		
16DS1P1	<u>M</u>	A1132A22(BLU)	16A2P2	MM		x		
16DS1P1	<u>NN</u>	A1127A22(BLU)	16A2P2	<u>NN</u>		x		
16DS1P1	P	A1124A22(BLU)	16A2P2	P		x		
16DS1P1	<u>P</u>	A1126A22(BLU)	16A2P2	<u>P</u>		x		
16DS1P1	<u>Q</u>	A1128A22(WHT)	16A2P2	<u>Q</u>		x		
16DS1P1	R	A1128A22(BLU)	16A2P2	R		x		
16DS1P1	S	A1126A22(WHT)	16A2P2			x		
16DS1P1	<u>U</u>	A1118A22N	GND			x		
16DS1P1	<u>V</u>	A1122A22(WHT)	16A2P2	<u>U</u>		x		
16DS1P1	<u>W</u>	A1129A22(BLU)	16A2P2	<u>V</u>		x		
16DS1P1	X	A1117A22	8TB4	<u>G</u> ¹²		x		
16DS1P1	Y	A1122A22(ORN)	16A2P2	X		x		
16DS1P1	<u>Y</u>	A1122A22(BLU)	16A2P2	Y		x		
16DS1P1	Z	A1131A22(ORN)	16A2P2	<u>Y</u>		x		
16DS1P1		A1129A22(WHT)	16A2P2	Z		x		
16R1	1	A1017C22	SPLICE			x		
16R1	2	A1018C22	16R1	3		x		
16R1	2	A1018B22	5A1J1	P		x		
16R1	3	A1018C22	16R1	2		x		
16S1	1	A1017B22(WHT)	5A1J1	W		x		
16S1	2	A1017D22	SPLICE			x		
16S2	1	A1033D22	5A1J1	<u>D</u>		x		
16S2	2	A1016B22	5A1J1	<u>E</u>		x		
16S2	3	A1032B22	5A1J1	<u>F</u>		x		
16TB1	A5	A1234A22	16A1P2	13		x		
16TB1	A8	A1240A22(BLU)	16A1P3	42		x		
16TB1	A9	A1249A22(WHT)	20A2P05	T		x		
16TB1	A10	TG438A16(WHT)	20A5P01			x		
16TB1	A11	TG438A16(BLU)	20A5P01	<u>S</u>		x		
16TB1	A13	TG283A22	16A2P1	EE		x		
16TB1	A14	TG256A22	20A4P02	G		x		
16TB1	A9	A35A22N	GND			x		
16TB1	(SHLD)							
16TB1	B5	A1025A22(WHT)	20A1J53	<u>Q</u>		x		
16TB1	B10	TG545A16(WHT)	20A7P01	<u>E</u>		x		

END 1		WIRE No.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
16TB1	B11	TG545A16(BLU)	20A7P01	<u>G</u>		X		
16TB1	B14	TG258A22	20A4P02	J		X		
16TB1	B8	A1239A22(BLU)	16A1P3	13		X		
16TB1	C10	TG547A16(WHT)	20A7P01	<u>P</u>		X		
16TB1	C11	TG547A16(BLU)	20A7P01	<u>I</u>		X		
16TB1	C14	TG260A22	20A4P02	<u>L</u>		X		
16TB1	C3	A1222A22	2CB9			X		
16TB1	C8	A1236A22	16A1P2	31		X		
16TB1	C9	A1240A22(WHT)	16A1P3	41		X		
16TB1	D10	TG549A16(WHT)	20A7P01	<u>Q</u>		X		
16TB1	D11	TG549A16(BLU)	20A7P01	<u>R</u>		X		
16TB1	D14	TG262A22	20A4P02	N		X		
16TB1	E10	TG551A16(WHT)	20A7P01	<u>I</u>		X		
16TB1	E11	TG551A16(BLU)	20A7P01	<u>S</u>		X		
16TB1	E2	A1000A22	16A1P2	65		X		
16TB1	E7	TG163B22(BLU)	20A2P04	H		X		
16TB1	F10	TG438B22	20J330	W		X		
16TB1	F12	TG255A22	20A4P02	F		X		
16TB1	F13	TG284A22	16A2P1	FF		X		
16TB1	F2	A1189A22	16A2P1	N		X		
16TB1	F8	A1249A22(ORN)	20A2P05	EE		X		
16TB1	G10	TG4A16	20CB1			X		
16TB1	G11	TG5A16N	GND			X		
16TB1	G12	TG257A22	20A4P02	H		X		
16TB1	G2	A1096A22	21A12P1	89		X		
16TB1	G9	A1249A22(BLU)	20A2P05	U		X		
16TB1	H10	TG4B16	20CB1			X		
16TB1	H11	TG5B16N	GND			X		
16TB1	H12	TG259A22	20A4P02	K		X		
16TB1	H2	A1233A22	16A1P2	1		X		
16TB1	H8	A1193A22	16A5P1	29		X		
16TB1	H9	1239A22(WHT)	16A1P3	12		X		
16TB1	J12	TG261A22	20A4P02	M		X		
16TB1	J2	A1115A22	22A5P1	2		X		
16TB1	J4	A1025A22(BLU)	20A1J53	<u>R</u>		X		
16TB1	J6	TG163B22(WHT)	20A2P04	S		X		
16TB1	J7	TG163A22(BLU)	20A1J09	P		X		
16TB1	J8	A1154A22	22A4P15	E		X		
16TB1	K2	A1158A22	22A4P15	<u>J</u>		X		
16TB1	K3	A1021A22	20A1J53	<u>H</u>		X		
16TS1	K4	A1223A22N	GND			X		
16TB1	K6	TG163A22(WHT)	20A1J09	V		X		
16XK6	1	A1252A22	16A2P1	Z		X		
16XK6	19	A1138G22	SPLICE			X		
16XK6	19	A96A22N	GND			X		
16XK6	(SHLD)							
16XK6	20	A1089A22	SPLICE			X		
16XK6	3	A1253A22N	GND			X		
16XK7	1	A1254A22	16A2P1	Y		X		
16XK7	19	A1138F22	SPLICE			X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
16XK7	19 (SHLD)	A95A22N	GND			x		
16XK7	2 0	A1255A22N	GND			x		
16XK7	3	A1090A22	SPLICE			x		
17A1P1	G	A322D22	19TB4	H15		x		
17A1P1	I	A276A22(BLU)	19TB7	H4		x		
17A1P1	J	A276A22(WHT)	19TB7	C4		x		
17A1P1	L	A187L20	19TB4	G5		x		
17A1P1	N	A263A22(BLU)	22A4P14	S		x		
17A1P1	R	A277A22(BLU)	19TB7	H5		x		
17A1P1	S	A262A22(WHT)	22A4P14	V		x		
17A1P1	S	A277A22(WHT)	19TB7	C5		x		
17A1P1	Z	A275A22(WHT)	22A4P13	H		x		
17A1P1	Z	A259A22N	GND			x		
17A1P1	A	A266B22(WHT)	SPLICE			x		
17A1P1	A	A266B22(BLU)	SPLICE		x			
17A1P1	A	A147C22(WHT)	SPLICE				x	
17A1P1	AA	A137A22	SHIELD				x	
17A1P1	A	A161A22(BLU)	22A4P312	G			x	
17A1P1	A	A275A22(BLU)	22A4P13	G		x		
17A1P1	A	A275A22(WHT)	22A4P312	P	x			
17A1P1	B	A265B22(WHT)	SPLICE		x	x		
17A1P1	B	A146C22(WHT)	SPLICE				x	
17A1P1	B B	A141A20(BLU)	3T1P1	H			x	
17A1P1	B B	A297A22(BLU)	3T1P1	J	x	x		
17A1P1	C	A148C22(WHT)	SPLICE				x	
17A1P1	C	A267B22(WHT)	SPLICE		x	x		
17A1P1	CC	A141A20(ORN)	3T1P1	F			x	
17A1P1	CC	A297A22(ORN)	3T1P1	F	x			
17A1P1	D	A270A22(BLU)	22A4P13	E		x		
17A1P1	D	A270A22(BLU)	22A4P312	R	x			
17A1P1	D	A158A22(BLU)	22A4P312	R			x	
17A1P1	D	A577B20	22A2P1	E			x	
17A1P1	D	A298A22	22A2P1	E	x	x		
17A1P1	E	A270A22(WHT)	22A4P312	S	x			
17A1P1	E	A270A22(WHT)	22A4P13	E		x		
17A1P1	E	A158A22(WHT)	22A4P312	S			x	
17A1P1	E	A555A22	22A3P1	I			x	
17A1P1	E	A191B22	22A3P1	I	x	x		
17A1P1	FF	A141A20(WHT)	3T1P1	G			x	
17A1P1	FF	A297A22(WHT)	3T1P1	K	x	x		
17A1P1	F	A557B20	22A3P1	N			x	
17A1P1	F	A193B22	22A3P1	N	x	x		
17A1P1	G	A322D22	SPLICE		x			
17A1P1	G	A167D20	SPLICE				x	
17A1P1	GG	A140A20	22A4P312	R			x	
17A1P1	GG	A260A22	22A4P15	V		x		
17A1P1	GG	A260A22	22A4P312	R	x			
17A1P1	G	A385A22	19TB5	G2	x	x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
17A1P1	G	A252A22	17XK1	C3				
17A1P1	H	A279C22	SPLICE		x	x		
17A1P1	H	A168A20	SPLICE				x	
17A1P1	H	A348A22	19TB5	B4	x			
17A1P1	HH	A261A22	22A4P312	N	x			
17A1P1	HH	A261A22	22A4P15	N		x		
17A1P1	HH	A156A20	22A4P312	N			x	
17A1P1	H	A384A22	19TB5	B4	x	x		
17A1P1	H	A251A22	17XK1	D3			x	
17A1P1	H	A162A22(BLU)	22A4P312	C			x	
17A1P1	I	A276A22(WHT)	SPLICE		x			
17A1P1	J	A138D20(WHT)	3A1J1	K			x	
17A1P1	J	A244F22(WHT)	3A1J1	H	x	x		
17A1P1	J	A162A22(WHT)	22A4P312	J			x	
17A1P1	J	A276A22(BLU)	SPLICE		x			
17A1P1	K	A138D20N(BLU)	GND				x	
17A1P1	K	A244F22N(BLU)	GND		x	x		
17A1P1	K	A262A22(WHT)	22A4P312	A	x			
17A1P1	K	A262A22(BLU)	22A4P14	U		x		
17A1P1	K	A143A22(BLU)	22A4P312	B			x	
17A1P1	L	A187W22	19TB4	G5	x			
17A1P1	L	A528M20	19TB4	D4			x	
17A1P1	M	A139A20N	GND				x	
17A1P1	M	A292A22N	GND		x	x		
17A1P1	M	A145A22(BLU)	22A4P312	Y			x	
17A1P1	M	A264A22(BLU)	22A4P312	Y	x			
17A1P1	N	A144A22(BLU)	22A4P312	Z			x	
17A1P1	N	A264A22(BLU)	22A4P14	Q		x		
17A1P1	N	A263A22(BLU)	22A4P312	Z	x			
17A1P1	P	A269A22(WHT)	22A4P312	F	x			
17A1P1	P	A269A22(WHT)	22A4P13	Z		x		
17A1P1	P	A157A22(WHT)	22A4P312	F			x	
17A1P1	P	A159A22(WHT)	22A4P312	H			x	
17A1P1	P	A274A22(WHT)	22A4P13	B		x		
17A1P1	P	A274A22(BLU)	22A4P312	B	x			
17A1P1	Q	A149A20N	GND				x	
17A1P1	Q	A293A22N	GND		x	x		
17A1P1	R	A269A22(BLU)	22A4P13	Y		x		
17A1P1	R	A269A22(BLU)	22A4P312	G	x			
17A1P1	R	A157A22(BLU)	22A4P312	G			x	
17A1P1	R	A163A22(WHT)	22A4P312	F			x	
17A1P1	R	A277A22(WHT)	SPLICE	I	x			
17A1P1	S	A143A22(WHT)	22A4P312	A			x	
17A1P1	S	A262A22(BLU)	22A4P312	B	x			
17A1P1	S	A163A22(BLU)	22A4P312	N			x	
17A1P1	S	A277A22(BLU)	SPLICE		x			
17A1P1	T	A264A22(WHT)	22A4P312	C	x			
17A1P1	T	A264A22(WHT)	22A4P14	R		x		
17A1P1	T	A145A22(WHT)	22A4P312	C			x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
17A1P1	U	A144A22(WHT)	22A4P312	D			X	
17A1P1	U	A263A22(WHT)	22A4P312	D	X			
17A1P1	U	A263A22(WHT)	22A4P14	I		X		
17A1P1	V	A274A22(WHT)	22A4P312	H	X			
17A1P1	V	A274A22(BLU)	22A4P1 3	A		X		
17A1P1	v	A159A22(BLU)	22A4P312	B			X	
17A1P1	W	A266B22(BLU)	SPLICE			X		
17A1P1	W	A266B22(WHT)	SPLICE		X			
17A1P1	W	A147C22(BLU)	SPLICE				X	
17A1P1	<u>W</u>	A253A22	17XK1	B3			X	
17A1P1	<u>W</u>	A383A22	19TB5	A5	X	X		
17A1P1	X	A265B22(BLU)	SPLICE		X	X		
17A1P1	X	A146C22(BLU)	SPLICE				X	
17A1P1	<u>X</u>	A254A22	17XK1	A3			X	
17A1P1	<u>X</u>	A386A22	19TB5	G4	X	X		
17A1P1	Y	A148C22(BLU)	SPLICE				X	
17A1P1	<u>Y</u>	A267B22(BLU)	SPLICE		X	X		
17A1P1	Z	A275A22(BLU)	22A4P312	G	X			
17A1P1	Z	A161A22(WHT)	22A4P312	P			X	
17A1P1	Z	A142A20	22A4P312	I			X	
17A1P1	<u>Z</u>	A259A22	22A4P312	I	X			
17CB1		A138A20	3A1P1	CC			X	
17CB1		A138C20	3A1P1	K			X	
17CB1		A244A22	3A1P1	L	X	X		
17CB1		A244E22	3A1P1	H	X	X		
17DS1	A(A)	A529R20	17S5	1			X	
17DS1	A(c)	A260A22	22A3J1	Y			X	
17DS1	C	A200A22	22A3J1	Y	X	X		
17DS1	C	A261A22N	GND				X	
17DS1	E1A	A196A22	22A3J1	H		X		
17DS1	GNR	A198A22	22A3J1	K		X		
17DS1	GO	A199A22	22A3J1	J		X		
17DS1	CASE	A195A22N	LOCAL			X		
17DS1	GND		GND					
17DS1	NC	A186B22	17S5	1		X		
17DS1	NO	A186N22	17S5	1	X			
17DS1	PLT	A197A22	22A3J1	G		X		
17DS1	1	A196A22	22A3J1	H	X			
17DS1	1	A258B22	22A3P1	H			X	
17DS1	2	A197A22	22A3J1	G	X			
17DS1	2	A256B22	22A3J1	G			X	
17DS1	3	A198A22	22A3J1	K	X			
17DS1	3	A257B22	22A3J1	K			X	
17DS1	4	A259B22	22A3P1	J			X	
17DS1	4	A199A22	22A3J1	J	X			
17P1	1	A251A22	22A4P15	EE		X		
17P1	1	A251A22	22A4P311	W	X			
17P1	1	A569A22	24A4P311	W			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
17P1		A252A22	22A4P311	G	X			
17P1	2	A570A22	24A4P311	G			X	
17P1	2	A252A22	22A4P15	DD		X		
17P1	3	A253A22	22A4P15	CC		X		
17P1	3	A253A22	22A4P311	M	X			
17P1	3	A571A22	24A4P311	M			X	
17P1	4	A572A22	SPLICE				X	
17P1	4	A254B22	SPLICE		X	X		
17P1	5	A552A22N	GND				X	
17P1	5	A295A22N	GND		X	X		
17P1	5	A552B22	17P1	8			X	
17P1	6	A321A22	19XK84	X2	X			
17P1	6	A573A22	19XK84	X2			X	
17P1	6	A321A22	22A5P1	181		X		
17P1	7	A173A22	24A4P311	L			X	
17P1	7	A241A22	22A4P15	Z		X		
17P1	7	A241A22	22A4P311	L	X			
17P1	8	A552B22	17P1	5			X	
17P1	8	A294A22N	GND		X	X		
17P2	1	A580A22	24A4P311	GG			X	
17P2	1	A255A22	22A4P15	Z		X		
17P2	1	A255A22	22A4P311	GG	X			
17P2	2	A256A22	22A4P311	Y	X			
17P2	2	A256A22	22A4P15	Y		X		
17P2	2	A581A22	24A4P311	Y			X	
17P2	3	A582A22	24A4P311	I			X	
17P2	3	A257A22	22A4P311	I	X			
17P2	3	A257A22	22A4P15	X		X		
17P2	4	A583A22	SPLICE				X	
17P2	4	A258C22	SPLICE		X	X		
17P2	5	A574A22N	GND				X	
17P2	5	A296A22N	GND		X	X		
17P2	6	A324A22	19XK83	X2	X			
17P2	6	A584A22	19XK83	X2			X	
17P2	6	A324A22	22A5P1	91		X		
17R1	3	A249B22	22A2J1	F		X		
17R1	3	A294B22	22A2J1	F	X			
17R1	3	A579A22	22A2J1	F			X	
17R1	4	A299A22	17S2	1	X	X		
17R2	2	A160A22	17S3	5			X	
17R2	2	A190A22	17S3	4	X			
17R2	3	A189022	22A3J1	C	X	X		
17R2	3	A554A22	22A3J1	C			X	
17R2	4	A190A22	17S3	1		X		
17S1		A187C20	SPLICE			X		
17S1		A187C22	SPLICE		X			
17S1		A250B22	22A2J1	D	X	X		
17S1	1	A576A22	22A2J1	D			X	
17S1	2	A528A20	19S12	4			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
17S1	2	'A528S20	19S12	4			X	
17S2	1	'A299A22	17R1	4	X	X		
17S2	1	'A166A22	17S2	5			X	
17S2	2	'A298B22	22A2J1	E	X	X		
17S2	4	'A577A22	22A2J1	E			X	
17S2	5	'A166A22	17S2	1			X	
17S3	1	'A190A22	17R2	4		X		
17S3	2	'A191A22	22A3J1	I		X		
17S3	4	'A555B22	22A3J1	I			X	
17S3	4	'A190A22	17R2	2	X			
17S3	5	'A191A22	22A3J1	I	X			
17S3	5	'A160A22	17R2	2			X	
17S4		'A186L22	19S16	1	X	X		
17S4		'A186M22	17S5	1	X	X		
17S4		'A194A22	22A3J1	K	X	X		
17S4	1	'A553A22	22A3J1	K			X	
17S4	2	'A529J20	19S16	1			X	
17S4	2	'A529K20	17S5	1			X	
17S5	1	'A186M22	17S4		X	X		
17S5	1	'A529R20	17DS1	A(A) (NO)			X	
17S5	1	'A186N22	17DS1	NO	X			
17S5	1	'A186B22	17DS1	NC		X		
17S5	1	'A529K20	17S4	2			X	
17S5	2	'A557A20	22A3J1	N			X	
17S5	2	'A193A22	22A3J1	N	X	X		
17XK1	A1	'A529W120	19TB5	K			X	
17XK1	A2	'A259A22	22A3P1	J			X	
17XK1	A3	'A254A22	17A1P1	X			X	
17XK1	B1	'A529V20	19TB5	J			X	
17XK1	B2	'A258A22	22A3P1	H			X	
17XK1	B3	'A253A22	17A1P1	W			X	
17XK1	C1	'A529U20	19TB5	H			X	
17XK1	C2	'A257A22	22A3P1	K			X	
17XK1	D1	'A529T20	19TB5	G			X	
17XK1	D2	'A256A22	23A3P1	G			X	
17XK1	C3	'A252A22	17A1P1	H			X	
17XK1	C3	'A251A22	17A1P1	Y			X	
17XK1	X1	'A260B22	22A3P1				X	
17XK1	X2	'A177A22N	GND				X	
18A1P1	1	'A1087A22(WHT)	3408DS1P2	12		X		
18A1P1	10	'A1048A22(BLU)	18A2P1	15		X		
18A1P1	16	'A1058A22(WHT)	18A3P1	H		X		
18A1P1	17	'A1141E22	SPLICE			X		
18A1P1	23	'A1058A22(BLU)	18A3P1	J		X		
18A1P1	24	'A1184A22N	END CAP			X		
18A1P1	25	'A1142D22	SPLICE			X		
18A1P1	25	'A1141D22	SPLICE			X		
18A1P1	26	'A1141C22	SPLICE			X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
18A1P1	27	A1053A22	18A3P1	A				
18A1P1	28	A1056A22	18A3P1	M		x		
18A1P1	29	A1047A22	18A2P1	14		x		
18A1P1	30	A1044A22(WHT)	18A2P1	3		x		
18A1P1	31	A1044A22(BLU)	18A2P1	4		x		
18A1P1	32	A1045A22(WHT)	18A2P1	6		x		
18A1P1	33	A1045A22(BLU)	18A2P1	5		x		
18A1P1	34	A1150A22N	END CAP			x		
18A1P1	35	A1150B22N	END CAP			x		
18A1P1	36	A1149A22N	END CAP			x		
18A1P1	37	A1055A22	18A3P1	B		x		
18A1P1	38	A1046A22	18A2P1	7		x		
18A1P1	39	A1044A22(ORN)	18A2P1	16		x		
18A1P1	4	A1048A22(WHT)	18A2P1	22		x		
18A1P1	41	A1045A22(ORN)	18A2P1	17		x		
18A1P1	43	A1150C22N	END CAP			x		
18A1P1	46	A1145A22(WHT)	16A1P2	23		x		
18A1P1	47	A1146A22(WHT)	16A1P2	24		x		
18A1P1	48	A1146A22(BLU)	16A1P2	48		x		
18A1P1	49	A1043A22(WHT)	18A2P1	1		x		
18A1P1	5	A1087A22(BLU)	3408DS1P2	10		x		
18A1P1	50	A1043A22(BLU)	18A2P1	2		x		
18A1P1	51	A1143A22	16A1P2	35		x		
18A1P1	53	A1145A22(BLU)	16A1P2	47		x		
18A1P1	54	A1091A22(WHT)	SPLICE			x		
18A1P1	55	A1091A22(BLU)	2300TB1	K7		x		
18A1P1	56	A1147A22(WHT)	16A1P2	22		x		
18A1P1	60	A1057A22	18A3P1	K		x		
18A1P1	61	A1144A22(WHT)	16A1P2	25		x		
18A1P1	62	A1147A22(BLU)	16A1P2	46		x		
18A1P1	64	A1054A22	18A3P1	L		x		
18A1P1	65	A1144A22(BLU)	16A1P2	49		x		
18A1P1	8	A1059A22(WHT)	18A3P1	F		x		
18A1P1	9	A1059A22(BLU)	18A3P1	G		x		
18A2P1	1	A1043A22(WHT)	18A1P1	49		x		
18A2P1	12	A1256C22	SPLICE			x		
18A2P1	13	A1256D22	SPLICE			x		
18A2P1	14	A1047A22	18A1P1	29		x		
18A2P1	15	A1048A22	18A1P1	10		x		
18A2P1	16	A1044A22(ORN)	18A1P1	39		x		
18A2P1	17	A1045A22(ORN)	18A1P1	41		x		
18A2P1	19	A1050C22N	SPLICE			x		
18A2P1	2	A1043A22(BLU)	18A1P1	50		x		
18A2P1	20	A1256E22	SPLICE			x		
18A2P1	22	A1048A22(WHT)	18A1P1	4		x		
18A2P1	3	A1044A22(WHT)	18A1P1	30		x		
18A2P1	4	A1044A22(BLU)	18A1P1	31		x		
18A2P1	5	A1045A22(BLU)	18A1P1	33		x		
18A2P1	6	A1045A22(WHT)	18A1P1	32		x		

END 1		WIRE No.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES	PIN		REF DES.	PIN	E	M	P	
18A2P1	7	A1046A22	18A1P1	38		X		
18A2P1	8	A1050A22N	SPLICE			x		
18A2P1	9	A1050B22N	SPLICE			x		
18A3P1	A	A1053A22	18A1P	27		x		
18A3P1	B	A1055A22	18A1P1	37		x		
18A3P1	C	A1052A22N	END CAP			x		
18A3P1	D	A1051A22 **	8TB4	F12		x		
18A3P1	F	A1059A22(WHT)	18A1P1	8		x		
18A3P1	G	A1059A22(BLU)	18A1P1	9		x		
18A3P1	H	A1058A22(WHT)	18A1P1	16		x		
18A3P1	J	A1058A22(BLU)	18A1P1	23		x		
18A3P1	K	A1057A22	18A1P1	60		x		
18A3P1	L	A1054A22	18A1P1	64		x		
18A3P1	M	A1056A22	18A1P1	28		x		
18CB1		A1141A22	3A1P2	X		x		
18CB1		A344F20	16CB4			x		
18CB2		A1049A22	3A1P2	Y		x		
18CB2	2	A463A22	20CB4	B2		x		
19AJ3	B	A301A20	SPLICE				X	
19A3		A162A4N	GND		x	x		
19A3	+	A163B4	19K5	A1	x	x		
19A1J1	B	A133A22	19A1J1	C			X	
19A1J1	C	A133A22	19A1J1	B			X	
19A1J1	<u>C</u>	A369D20	SPLICE				X	
19A1J1	D	A130A22(BLU)	SPLICE				X	
19A1J1	<u>D</u>	A431E20	SPLICE				X	
19A1J1	E	A130A22(WHT)	SPLICE				X	
19A1J1	<u>E</u>	A585A22	24A4P311	P			X	
19A1J1	<u>G</u>	A586A22	24A4P311	<u>R</u>			X	
19A1J1	<u>H</u>	A174A22	24A4P311	CC			X	
19A1J1	J	A129A22(BLU)	SPLICE				X	
19A1J1	K	A129A22(WHT)	SPLICE				X	
19A1J1	<u>R</u>	A301C20	1XK5	B2	x			
19A1J1	S	A437A20	19XK72	A1			X	
19A1J1	Y	A212C20	SPLICE				X	
19A1J1	Z	A541C22	SPLICE				X	
19A1J3	A	A220A22	19A3J1	A			X	
19A1J3	AA	A342A22	19A3J1	AA			X	
19A1J3	<u>A</u>	A316A22	19A3J1	<u>A</u>			X	
19A1J3	BB	A343A20	19A3J1	BB			X	
19A1J3	<u>B</u>	A315A20	19A3J1	<u>B</u>			X	
19A1J3	CC	A344A20	19A3J1	CC			X	
19A1J3	<u>C</u>	A313A22(WHT)	19A3J1	<u>C</u>			X	
19A1J3	D	A333B22(WHT)	SPLICE				X	
19A1J3	DD	A183A22	19A3J1	DD			X	
19A1J3	<u>D</u>	A313A22(BLU)	19A3J1	<u>D</u>			X	
19A1J3	E	A333B22(BLU)	SPLICE				X	
19A1J3	EE	A18HA22	19A3J1	EE			X	
19A1J3	<u>E</u>	A312A20	19A3J1	<u>E</u>			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
19A1J3	FF	A185A22	19A3J1	FF			X	
19A1J3	F	A311A22	19A3J1	F			X	
19A1J3	G	A331A22(WHT)	19A3J1	G			X	
19A1J3	G	A310A22	19A3J1	G			X	
19A1J3	H	A331A22(BLU)	19A3J1	H			X	
19A1J3	H	A309A22	19A3J1	H			X	
19A1J3	I	A308A22	19A1J3	I			X	
19A1J3	J	A307A20	19A3J1	J			X	
19A1J3	K	A306A20	21K7P1	C			X	
19A1J3	L	A328B22(WHT)	SPLICE				X	
19A1J3	M	A328B22(BLU)	SPLICE				X	
19A1J3	M	A305A20	19A3J1	M			X	
19A1J3	N	A304A22	19A3J1	N			X	
19A1J3	O	A302A22	19A3J1	O			X	
19A1J3	P	A303A22	19A3J1	P			X	
19A1J3	S	A324A22	19A3J1	S			X	
19A1J3	S	A336A22	19A3J1	S			X	
19A1J3	T	A323B20	SPLICE				X	
19A1J3	T	A337A22	19A3J1	T			X	
19A1J3	U	A322A20	19A3J1	U			X	
19A1J3	U	A338A22	19A3J1	U			X	
19A1J3	V	A320A22(WHT)	19A3J1	V			X	
19A1J3	V	A339A20	19A3J1	V			X	
19A1J3	W	A320A22(BLU)	19A3J1	W			X	
19A1J3	W	A340A20	19A3J1	W			X	
19A1J3	X	A318A22(WHT)	19A3J1	X			X	
19A1J3	X	A181A22	19A3J1	X			X	
19A1J3	Y	A318A22	19A3J1	Y			X	
19A1J3	Y	A182A22	19A3J1	Y			X	
19A1J3	Z	A335A20	19A3J1	Z			X	
19A1J3	Z	A341A22	19A3J1	Z			X	
19A1J4	B	A347A20	19A8P1	F			X	
19A1J4	B	A370C20	19TB2	1			X	
19A1J4	C	A348A20	19A8P1	G			X	
19A1J4	D	A349A20	19A8P1	H			X	
19A1J4	E	A350A20	19A6P1	A			X	
19A1J4	EE	A396D20	SPLICE				X	
19A1J4	F	A351A22	19A6P1	B			X	
19A1J4	G	A352A20	19A6P1	C			X	
19A1J4	G	A396C20	SPLICE				X	
19A1J4	G	A192A22	19TB3	10			X	
19A1J4	H	A378C20N	GND				X	
19A1J4	H	A353A20	19A6P1	D			X	
19A1J4	J	A354A20	19A6P1	E			X	
19A1J4	K	A355A20	19A6P1	F			X	
19A1J4	L	A356A20	19A6P1	G			X	
19A1J4	M	A357A20	19A6P1	H			X	
19A1J4	N	A358A20	19A6P1	K			X	
19A1J4	M	A378B20N	GND				X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19A1J4	P	A411B20	19TB3	7			x	
19A1J4	R	A360A20	19A11P1	H			x	
19A1J4	R	A382A22	19A6P1	R			x	
19A1J4	S	A361A20	19A11P1	G			x	
19A1J4	S	A423A20	19A6P1	L			x	
19A1J4	T	A362A20	19A11P1	F			x	
19A1J4	I	A383A20	19A6P1	M			x	
19A1J4	U	A422A20	19A6P1	X			x	
19A1J4	U	A386A20	19A6P1	U			x	
19A1J4	V	A364A20	19XK81	B1			x	
19A1J4	V	A387A20	19A6P1	V			x	
19A1J4	W	A388A22	19A6P1	N			x	
19A1J4	W	A388A22	19A6P1	N			x	
19A1J4	X	A366B22(WHT)	3A1J1	BB			x	
19A1J4	X	A389A22	19A6P1	P			x	
19A1J4	Y	A366B22(BLU)	GND				x	
19A1J4	Y	A390A22	19A6P1	J			x	
19A1J4	Z	A391D22	22A2P1	H			x	
19A1J5	E	A393A22	19TB4	G			x	
19A1J5	F	A394A22	19TB4	J			x	
19A1J5	M	A379A22	19XK59	B2			x	
19A1J5	B	A368A22	19TB4	H16			x	
19A1J5	F	A377A22	19TB4	F16			x	
19A1J5	G	A380A22	19XK59	A2			x	
19A1J8	A	A496A22(BLU)	19R2P1	A			x	
19A1J8	B	A496A22(ORN)	19R2P1	B			x	
19A1J8	C	A496A22(WHT)	19R2P1	C			x	
19A1P1	B	A330A22	END CAP		x	x		
19A1P1	C	A331A22	END CAP		x	x		
19A1P1	E	A283A22(BLU)	19A519	F	x	x		
19A1P1	F	A282A22(BLU)	19A5P1	Z	x	x		
19A1P1	G	A281A22(BLU)	19A5P1	E	x	x		
19A1P1	H	A285A22	19A5P2	X	x	x		
19A1P1	J	A392A22	9TB1	F10	x	x		
19A1P1	K	A393A22	9TB1	A10	x	x		
19A1P1	L	A394A22	9TB1	A9	x	x		
19A1P1	P	A328B22	22A2P1	J	x	x		
19A1P1	R	A282A22(WHT)	19A5P1	Y	x	x		
19A1P1	S	A283A22(WHT)	19A5P1	X	x	x		
19A1P1	T	A400A22	19A1P1	U	x	x		
19A1P1	U	A400A22	19A1P1	T	x	x		
19A1P1	V	A281A22(WHT)	19A5P1	A	x	x		
19A3J1	A	A220A22	19A1J3	A			x	
19A3J1	AA	A342A22	19A1J3	AA			x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
19A3J1	<u>A</u>	A316A22	19A1J3	<u>A</u>			X	
19A3J1	BB	A343A20	19A1J3	BB			X	
19A3J1	<u>B</u>	A315A20	19A1J3	<u>B</u>			X	
19A3J1	CC	A344A20	19A1J3	CC			X	
19A3J1	<u>C</u>	A313A22(WHT)	19A1J3	<u>C</u>			X	
19A3J1	D	A333A22(WHT)	SPLICE				X	
19A3J1	DD	A183A22	19A1J3	DD			X	
19A3J1	<u>D</u>	A313A22(BLU)	19A1J3	<u>D</u>			X	
19A3J1	E	A333A22(BLU)	SPLICE				X	
19A3J1	<u>E</u>	A312A20	19A1J3	<u>E</u>			X	
19A3J1	EE	A18HA22	19A1J3	EE			X	
19A3J1	FF	A185A22	19A1J3	FF			X	
19A3J1	<u>F</u>	A311A22	19A1J3	<u>F</u>			X	
19A3J1	G	A331A22(WHT)	19A1J3	G			X	
19A3J1	<u>G</u>	A310A22	19A1J3	<u>G</u>			X	
19A3J1	H	A331A22(BLU)	19A1J3	H			X	
19A3J1	<u>H</u>	A309A22	19A1J3	<u>H</u>			X	
19A3J1	I	A308A22	19A1J3	I			X	
19A3J1	<u>I</u>	A307A20	19A1J3	<u>I</u>			X	
19A3J1	J	A306B20	21K7P1	J			X	
19A3J1	K	A328A22(WHT)	SPLICE	F			X	
19A3J1	L	A328A22(BLU)	SPLICE				X	
19A3J1	M	A305A20	19A1J3	M			X	
19A3J1	<u>M</u>	A304A22	19A1J3	<u>M</u>			X	
19A3J1	N	A325A22(BLU)	24A4P311	N			X	
19A3J1	<u>N</u>	A303A22	19A1J3	<u>N</u>			X	
19A3J1	P	A302A22	19A1J3	P			X	
19A3J1	<u>P</u>	A301B20	SPLICE	Q			X	
19A3J1	Q	A324A22	19A1J3	S			X	
19A3J1	<u>Q</u>	A325A22(WHT)	24A4J311	X			X	
19A3J1	R	A325A22(WHT)	24A4P311	X			X	
19A3J1	<u>R</u>	A336A22	19A1J3	<u>S</u>			X	
19A3J1	S	A323A20	SPLICE				X	
19A3J1	<u>S</u>	A337A22	19A1J3	I			X	
19A3J1	T	A322A20	19A1J3	U			X	
19A3J1	<u>T</u>	A338A22	19A1J3	<u>U</u>			X	
19A3J1	U	A320A22(WHT)	19A1J3	V			X	
19A3J1	<u>U</u>	A339A20	19A1J3	<u>V</u>			X	
19A3J1	V	A320A22(BLU)	19A1J3	W			X	
19A3J1	<u>V</u>	A340A20	19A1J3	<u>W</u>			X	
19A3J1	W	A318A22(WHT)	19A1J3	X			X	
19A3J1	<u>W</u>	A181A22	19A1J3	<u>X</u>			X	
19A3J1	X	A318A22(BLU)	19A1J3	Y			X	
19A3J1	<u>X</u>	A182A22	19A1J3	<u>Y</u>			X	
19A3J1	Y	A335A20	19A1J3	Z			X	
19A3J1	<u>Y</u>	A341A22	19A1J3	<u>Z</u>			X	
19A3J1	Z	A154A22(WHT)	19P250	N	X	X		
19A3P242	D	A131B22(BLU)	19P250	P	X	X		
19A3P242	E	A131B22(WHT)	19P250	Q	X	X		
19A3P242	G							

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19A3P242	H	A139B22(WHT)	19P250	<u>K</u>	X	X		
19A3P242	J	A139B22(BLU)	19P250	<u>M</u>	x	x		
19A3P242	K	A130D22(BLU)	19P250	<u>E</u>	x	x		
19A3P242	L	A130D22(WHT)	19P250	<u>G</u>	x	x		
19A3P242	N	A155A22	19P250	<u>H</u>	x	x		
19A3P242	P	A154A22(BLU)	19P250	<u>I</u>	x	x		
19A3P242	S	A156A22	19P250	<u>Z</u>	x	x		
19A3P242	T	A151A22	END CAP		x	x		
19A3P242	U	A133C22	19P250	<u>J</u>	x	x		
19A3P243	B	A157A22(WHT)	19P250	EE		x		
19A3P243	C	A157A22(BLU)	19P250	FF		x		
19A3P243	K	A158A22	19P250	LL		x		
19A3P243	M	A159A22(WHT)	19P250	JJ		x		
19A3P243	N	A160A22(WHT)	19P250	J		x		
19A3P243	P	A160A22(BLU)	19P250	K		x		
19A3P243	R	A161A22(WHT)	19P250	H		x		
19A3P243	S	A161A22(BLU)	19P250	G		x		
19A3P243	T	A159A22(BLU)	19P250	HH		x		
19A3P244	A	A119B22(WHT)	19P250	<u>E</u>	x	x		
19A3P244	B	A119B22(BLU)	19P250	<u>D</u>	x	x		
19A3P244	C	A120B22(BLU)	19P250	<u>B</u>	x	x		
19A3P244	D	A100B22(WHT)	19P250	<u>A</u>	x	x		
19A3P244	E	A100B22(BLU)	19P250	<u>Z</u>	x	x		
19A3P244	F	A104B22(BLU)	19P250	Y	x	x		
19A3P244	G	A104B22(WHT)	19P250	X	x	x		
19A3P244	H	A106D22(BLU)	19P250	S	x	x		
19A3P244	J	A106D22(WHT)	19P250	R	x	x		
19A3P244	K	A120B22(WHT)	19P250	<u>C</u>	x	x		
19A3P244	L	A152A22	END CAP		x	x		
19A3P244	M	A118A22(BLU)	19P250	M	x	x		
19A3P244	N	A113A22	19P250	N	x	x		
19A3P244	P	A110B22(BLU)	19P250	W	x	x		
19A3P244	R	A110B22(WHT)	19P250	N	x	x		
19A3P244	S	A109B22(BLU)	19P250	T	x	x		
19A3P244	T	A109B22(WHT)	19P250	U	x	x		
19A3P244	U	A118A22(WHT)	19P250	P	x	x		
19A3P245	A	A153A22	END CAP		x	x		
19A3P245	B	A157A22(WHT)	19P250	EE	x			
19A3P245	C	A157A22(BLU)	19P250	FF	x			
19A3P245	K	A158A22	19P250	LL	x			
19A3P245	M	A159A22(WHT)	19P250	JJ	x			
19A3P245	N	A160A22(WHT)	19P250	J	x			
19A3P245	P	A160A22(BLU)	19P250	K	x			
19A3P245	R	A161A22(WHT)	19P250	H	x			
19A3P245	S	A161A22(BLU)	19P250	G	x			
19A3P245	T	A159A22(BLU)	19P250	HH	x			
19A4P249	A	A108C22(WHT)	SPLICE		x	x		
19A4P249	<u>A</u>	A132A22(WHT)	19A5P2	<u>E</u>	x			
19A4P249	<u>A</u>	A132A22(BLU)	19A5P2	<u>F</u>		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19A4P249	B	A108C22(BLU)	SPLICE		x			
19A4P249	<u>B</u>	A382A22	SHLD		x	x		
19A4P249	C	A112D22(WHT)	19J247	H	x	x		
19A4P249	<u>C</u>	A140A22	19A5P2	<u>R</u>	x	x		
19A4P249	D	A112D22(BLU)	SPLICE		x	x		
19A4P249	F	A130A22	SPLICE		x	x		
19A4P249	G	A130C22(BLU)	19J250	F	x	x		
19A4P249	J	A131A22(WHT)	19J250	<u>Q</u>	x	x		
19A4P249	K	A131A22(BLU)	19J250	<u>P</u>	x	x		
19A4P249	L	A132A22(BLU)	19A5P2	<u>F</u>	x			
19A4P249	L	A132A22(WHT)	19A5P2	E		x		
19A4P249	M	A133A22	SPLICE		x	x		
19A4P249	N	A134A22(WHT)	19A5P1	L	x	x		
19A4P249	P	A114A22(BLU)	19J247	<u>H</u>	x	x		
19A4P249	R	A136A22	SPLICE		x	x		
19A4P249	S	A137B22(WHT)	SPLICE		x	x		
19A4P249	T	A137B22(BLU)	19XK101	A1	x			
19A4P249	T	A137B22(BLU)	22A5P1	176		x		
19A4P249	U	A115A22(BLU)	19J247	<u>I</u>	x	x		
19A4P249	V	A115A22(WHT)	19J247	<u>J</u>	x			
19A4P249	V	A115A22(WHT)	19J247	<u>U</u>		x		
19A4P249	W	A114A22(WHT)	19J247	<u>G</u>	x	x		
19A4P249	X	A134A22(BLU)	19A5P1	<u>M</u>	x	x		
19A4P249	Y	A139A22(WHT)	19J250	<u>K</u>	x	x		
19A4P249	Z	A139A22(BLU)	19J250	<u>M</u>	x	x		
19A4P270	A	A126A22	19J248	<u>F</u>	x	x		
19A4P270	C	A127A16(WHT)	SPLICE		x	x		
19A4P270	D	A127A16(BLU)	SPLICE		x	x		
19A4P270	F	A143A22(WHT)	19A5P2	<u>H</u>	x	x		
19A4P270	G	A143A22(BLU)	19A5P2	<u>G</u>	x	x		
19A4P270	H	A144A22	19A5P2	Z	x	x		
19A4P271	A	A128A18	SPLICE		x			
19A4P271	A	A128A20	SPLICE			x		
19A4P271	B	A129A16N	GND		x	x		
19A4P271	C	A138A18	SPLICE		x			
19A4P271	C	A138A20	SPLICE			x		
19A4P271	D	A138B18	SPLICE		x			
19A4P271	D	A138B20	SPLICE			x		
19A4P271	E	A141A22	19J250	<u>V</u>	x	x		
19A4P271	F	A142A22	19S18	<u>S2</u>	x	x		
19A4P271	G	A145A22(WHT)	19J250	<u>S</u>	x	x		
19A4P271	H	A145A22(BLU)	19J250	<u>T</u>	x	x		
19A4P271	J	A390A22	19K7	<u>X1</u>	x	x		
19A4P271	K	A146A22	19A5P1	R	x	x		
19A4P271	L	A128B18	SPLICE		x			
19A4P271	L	A128B20	SPLICE			x		
19A4P271	M	A147A22	SPLICE		x	x		
19A4P271	P	A148A22	19TB4	A16	x	x		
19A4P271	R	A208C22	19J250	<u>Y</u>	x	x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19A4P271	S	A216A22	SPLICE		x	x		
19A5P1	A	A276C22(BLU)	SPLICE		x			
19A5P1	A	A276C22(WHT)	19TB7	B4		x		
19A5P1	A	A281A22(WHT)	19A1P1	G	x			
19A5P1	A	A281A22(WHT)	19A1P1	V		x		
19A5P1	B	A276C22(BLU)	19TB7	G4		x		
19A5P1	B	A276C22(WHT)	SPLICE		x			
19A5P1	B	A281A22(BLU)	19A1P1	V	x			
19A5P1	B	A281A22(BLU)	19A1P1	G		x		
19A5P1	C	A479A22	END CAP			x		
19A5P1	C	TG51D22(BLU)	SPLICE		x			
19A5P1	C	TG51C22(WHT)	SPLICE			x		
19A5P1	D	TG51D22(WHT)	SPLICE		x			
19A5P1	D	A157C22(WHT)	SPLICE		x	x		
19A5P1	D	TG51C22(BLU)	SPLICE			x		
19A5P1	E	A157C22(BLU)	SPLICE		x	x		
19A5P1	E	A234A22(BLU)	19J247	P	x	x		
19A5P1	E	TG51C22(WHT)	22A4P13	R	x	x		
19A5P1	F	A283A22(BLU)	19A1P1	E		x		
19A5P1	F	A283A22(BLU)	19A1P1	S	x			
19A5P1	F	A161C22(BLU)	SPLICE		x			
19A5P1	F	A161C22(BLU)	19TB7	G3		x		
19A5P1	G	A154B22(WHT)	19J250	N	x	x		
19A5P1	G	A160C22(WHT)	SPLICE		x			
19A5P1	G	A160C22(WHT)	19TB7	B1		x		
19A5P1	H	A154B22(BLU)	19J250	I	x	x		
19A5P1	H	A160C22(BLU)	SPLICE		x			
19A5P1	h	A160C22(BLU)	19TB7	G1		x		
19A5P1	J	A396A22(WHT)	22A4P13	DD		x		
19A5P1	J	A161C22(WHT)	SPLICE		x			
19A5P1	J	A161C22(WHT)	19TB7	B3		x		
19A5P1	K	A396A22(BLU)	22A4P13	CC		x		
19A5P1	L	A134A22(WHT)	19A4P249	N	x	x		
19A5P1	M	A134A22(BLU)	19A4P249	X	x	x		
19A5P1	R	A146A22	19A4P271	K	x	x		
19A5P1	S	A277C22(BLU)	19TB7	G5		x		
19A5P1	S	A277C22(WHT)	SPLICE		x			
19A5P1	T	A277C22(WHT)	19TB7	B5		x		
19A5P1	T	A277C22(BLU)	SPLICE		x			
19A5P1	U	A234A22(WHT)	19J247	R	x	x		
19A5P1	V	A233B22(WHT)	SPLICE		x			
19A5P1	V	A233B22(WHT)	19TB7	C2		x		
19A5P1	W	A233B22(BLU)	SPLICE		x			
19A5P1	W	A233B22(BLU)	19TB7	A2		x		
19A5P1	x	A283A22(WHT)	19A1P1	E	x			
19A5P1	X	A283A22(WHT)	19A1P1	S		x		
19A5P1	Y	A282A22(WHT)	19A1P1	F	x			
19A5P1	Y	A282A22(WHT)	19A1P1	R		x		
19A5P1	Z	A282A22(BLU)	19A1P1	F		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19A5P1	Z	A282A22(BLU)	19A1P1	R	x			
19A5P2	A	TG200G22	SPLICE		x			
19A5P2	A	TG200G22	19TB4	B10		x		
19A5P2	B	A226J22	19TB4	D17	x	x		
19A5P2	<u>B</u>	A155B22	19J250	<u>H</u>	x	x		
19A5P2	C	TG251E22	SPLICE		x	x		
19A5P2	D	A278C22(WHT)	19TB6	J1	x	x		
19A5P2	E	A278C22(BLU)	19TB6	J2	x	x		
19A5P2	E	A132A22(WHT)	19A4P249	<u>A</u>	x			
19A5P2	E	A132A22(WHT)	19A4P249	<u>A</u>	x			
19A5P2	<u>E</u>	A132A22(WHT)	19A4P249	L	x			
19A5P2	<u>E</u>	A132A22(BLU)	19A4P249	<u>A</u>	x			
19A5P2	<u>G</u>	A143A22(BLU)	19A4P270	G	x	x		
19A5P2	<u>H</u>	A143A22(WHT)	19A4P270	F	x	x		
19A5P2	<u>I</u>	A133D22	SPLICE		x	x		
19A5P2	<u>J</u>	A284A22	SPLICE		x	x		
19A5P2	<u>N</u>	A164A22	19K5	X2	x	x		
19A5P2	<u>p</u>	A455A22	SHLD			x		
19A5P2	<u>Q</u>	A286A22N	GND		x	x		
19A5P2	R	A469A22	16A1P2	34		x		
19A5P2	<u>R</u>	A140A22	19A4P249	<u>C</u>	x	x		
19A5P2	U	A130B22	SPLICE		x	x		
19A5P2	X	A285A22	19A1P1	H	x	x		
19A5P2	Z	A144A22	19A4P270	H	x	x		
19A6	3	A179B22	19TB6	A1	x	x		
19A6	4	A952A22	19TB6	F2	x	x		
19A6	6	A950A22	19TB6	D1	x	x		
19A6	7	A951A22	19TB6	F1	x			
19A6P1	A	A350A20	19A1J4	E			x	
19A6P1	B	A351A22	19A1J4	F			x	
19A6P1	C	A352A20	19A1J4	G			x	
19A6P1	D	A353A20	19A1J4	H			x	
19A6P1	E	A354A20	19A1J4	J			x	
19A6P1	F	A355A20	19A1J4	K			x	
19A6P1	G	A356A20	19A1J4	L			x	
19A6P1	H	A357A20	19A1J4	M			x	
19A6P1	J	A390A22	19A1J4	<u>Y</u>			x	
19A6P1	K	A358A20	19A1J4	<u>N</u>			x	
19A6P1	L	A423A20	19A1J4	<u>S</u>			x	
19A6P1	M	A383A20	19A1J4	<u>I</u>			x	
19A6P1	N	A388A22	19A1J4	<u>W</u>			x	
19A6P1	P	A389A22	19A1J4	<u>X</u>			x	
19A6P1	R	A382A22	19A1J4	<u>R</u>			x	
19A6P1	S	A346A20	19A8P1	<u>E</u>			x	
19A6P1	T	A363A20	19A11P1	<u>E</u>			x	
19A6P1	U	A386A20	19A1J4	<u>U</u>			x	
19A6P1	V	A387A20	19A1J4	<u>V</u>			x	
19A6P1	W	A384A20	19A8P1	<u>G</u>			x	
19A6P1	X	A422A20	19A1J4	U			x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
19A8P1	E	A346A20	19A6P1	S			X	
19A8P1	F	A347A20	19A1J4	B			X	
19A8P1	G	A384A20	19A6P1	W			X	
19A8P1	G	A348A20	19A1J4	C			X	
19A8P1	H	A349A20	19A1J4	D			X	
19A9P1	K	A396A22(BLU)	22A4P311		X			
19A11P1	E	A363A20	19A6P1	T			X	
19A11P1	F	A362A20	19A1J4	T			X	
19A11P1	G	A361A20	19A1J4	S			X	
19A11P1	H	A360A20	19A1J4	R			X	
19A12P1	A	A335A22	3T1P1	M	X	X		
19A12P1	A	A590A22(WHT)	3T1P1	V			X	
19A12P1	A/B/C (SHLD)	A366A22N	GND		X	X		
19A12P1	B	A176B22	SPLICE				X	
19A12P1	B	A332C22	19TB6	C2	X	X		
19A12P1	C	A176A22(WHT)	24A4P311	U			X	
19A12P1	C	A333A22	19TB6	B1		X		
19A12P1	C	A333A22	19TB6	B2	X			
19A13J1	A	A523A20	19S15	6			X	
19A13J1	B	A524A20N	GND				X	
19A13J2	B	A527A20	19S15	1			X	
19A13J2		A526A20N	GND				X	
19A13J1	C	A525A20	19S15	4			X	
19B1J1	A	A176B16(WHT)	19S17	NC	X	X		
19B1J1	B	A176C16(WHT)	19S17	NO	X			
19B1J1	B	A176C16(WHT)	19S17	NO		X		
19B1J1	C	A176B16N(BLU)	GND		X	X		
19B1J1	C	A176C16N(BLU)	GND		X			
19B1J1	E	A136C22	SPLICE		X	X		
19B171	D	A176C16N(BLU)	GND			X		
19CB1		A366A22	3A1P1	BB			X	
19CB1		A220A20	3A1P1	B	X	X		
19CB1		A220B20	3A1P1	C	X	X		
19CB1		X12C22	4CB1				X	
19CB126		P63C16	2K2	BUS		X		
19CB126	10	A177A20	19S17	NO	X	X		
19CB2		A222A20	3A1P1	A	X	X		
19CB2		A344C20	10CB3		X	X		
19CB2		A396A16	3A1P1	<u>Y</u>			X	
19CB2		A420A16	3A1P1	AA			X	
19CB3		A172J16	19CB7			X		
19CB3		A211A22	3A1P1	<u>M</u>	X	X		
19CB3		A63A20	3A1P1	<u>M</u>			X	
19CB4		P31A2ALUM	2K3	A2			X	
19CB4		X27C22	4CB1		X	X		
19CB4		A221A22	3A1P1	<u>H</u>	X	X		
19CB5		P31B2ALUM	2K3	A2			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19CB3		A503A20	3A1P1	←			X	
19CB6		A172K16	21CB4	S		X		
19TB6	B2	A332B22	3T1P1	Y	X			
19TB6	B2	A332B22	3T1P1	AA		X		
19CB6	25	A122A16	3A1P1	FF	X	X		
19CB6	25	A122B16	3A1P1	Z	X	X		
19CB6		A345B16	3A1P1	Y	X	X		
19CB6		A346B16	3A1P1	—	X	X		
19CB6		A346C16	21CB5		X	X		
19CB7		A172J16	19CB3	K		X		
19CB7		A175A22	3A1P1	CC	X	X		
19CB8		A171A22	3A1P1		X	X		
19CB8		A172G16	16CB5			X		
19CB8		A172F16	21CB3		X	X		
19CR1	A	A370D20	19TB2	1			X	
19CR3	11	A375B22	22A2P1	N			X	
19CR17	E2	A376A22	19S13	3	X	X		
19CR17	E3	A226A22	22A2J1	Z	X	X		
19CR18	E1	A377A22	19S13	5	X	X		
19CR35	6	A529X20	19TB2	1			X	
19DS1	A(NO)	A529C20	19DS1	B(NO)			X	
19DS1	B(NO)	A529C20	19DS1	A(NO)			X	
19DS1	B(NO)	A529B20	22A3J1	V			X	
19DS1	1	A102B22	22A3J1	F			X	
19DS1	2	A100B22	22A3J1	E			X	
19DS1	3	A104B22	22A3J1	B			X	
19DS1	4	A106B22	22A3J1	F			X	
19DS2	A	A186H22	19DS2	NO-B	X	X		
19DS2	A(NO)	A529E20	19DS2	B(NO)			X	
19DS2	B	A204B22	22A3J1	W		X		
19DS2	B(NC)	A529F20	19DS3	3			X	
19DS2	B(NO)	A529E20	19DS2	A(NO)			X	
19DS2	C	L144A22	8Z4		X			
19DS2	NC-A	A203B22	22A3J1	J	X	X		
19DS2	NC-B	A204B22	22A3J1	W	X			
19DS2	NO-B	A186H22	19DS2	A	X	X		
19DS2	1	A98C22	19DS2	4			X	
19DS2	NO-A	A186G22	SPLICE		X	X		
19DS2	1	A201B22	19DS2	4	X	X		
19DS2	1	A98B22	22A3J1	J			X	
19DS2	2	A202B22	19DS2	3	X	X		
19DS2	2	A96C22	19DS2	3			X	
19DS2	2	A96B22	22A3J1	W			X	
19DS2	3	A202B22	19DS2	2	X	X		
19DS2	3	A96C22	19DS2	2			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19DS2	4	A201B22	19DS2	1	x	x		
19DS2	4	A98C22	19DS2	1			x	
19DS3	C	A205A22	19DS3	2	x	x		
19DS3	C	L143A22	8Z4		x	x		
19DS3	NC	A206B22	22A3J1	D	x	x		
19DS3	NO	A186J22	SPLICE		x	x		
19DS3	1	A999A22N	GND				x	
19DS3	2	A205A22	19DS3	C	x	x		
19DS3	2	A986G22	22A3J1	D			x	
19DS3	2	A205B22	19DS3	4	x	x		
19DS3	3	A529F20	19DS2	B(NC)			x	
19DS3	3	A529G20	198S	5			x	
19DS3	4	A205B22	19DS3	2	x	x		
19DS4	B(NO)	A420G20	19S12	5			x	
19DS4	B(NO)	A420H20	19DS4	A(NO)			x	
19DS4	C	L144A22	8Z3				x	
19DS4	1	A117B22	22A2J1	F			x	
19DS4	2	A115B22	22A2J1	P			x	
19DS4	3	A119B22	22A2J1	E			x	
19DS4	4	A121B22	22A2J1	J			x	
19DS5	A(NO)	A420K20	19DS5	B(NO)			x	
19DS4	A(NO)	A420H20	19DS4	B(NO)			x	
19DS4	A(NO)	A420J20	19DS5	B(NO)			x	
19DS5	A(NO)	A113B22	22A2J1	G			x	
19DS5	B	A111B22	22A2J1	D			x	
19DS5	B(NO)	A420J20	19DS4	A(NO)			x	
19DS5	B(NO)	A420K20	19DS5	A(NO)			x	
19DS5	C	L143A22	8Z3				x	
19DS5	C	L144A22	8Z3			x		
19DS5	NC	A373B22	22A2J1	D	x	x		
19DS5	NC	A372B22	22A2J1	G	x	x		
19DS5	NO	A222G22	19DS5	NO	x			
19DS5	NO	A222F22	SPLICE		x	x		
19DS5	1	A113C22	19DS5	4			x	
19DS5	1	A357B22	19DS5	4	x	x		
19DS5	2	A111C22	19DS5	3			x	
19DS5	2	A358B22	19DS5	3	x	x		
19DS5	3	A111C22	19DS5	2			x	
19DS5	3	A358B22	19DS5	2	x	x		
19DS5	4	A113C22	19DS5	1			x	
19DS5	4	A357B22	19DS5	1	x	x		
19J1	A	A284C22	SPLICE		x	x		
19J1	A	A233C22	SPLICE		x			
19J1	A	A233C22	19TB7	E2		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19J1	D	A158D22	19TB4	G2	x	x		
19J1	E	A244D22	SPLICE		x	x		
19J1	F	A242B22	SPLICE		x			
19J1	G	A187M20	19TB4	G4		x		
19J1	G	A187M22	19TB4	G4	x			
19J1	H	TG338D22	SPLICE		x	x		
19J1	H	TG338D22	20P27	E		x		
19J1	H	A278B22(BLU)	19TB6	H2	x	x		
19J1	J	TG51D22	SPLICE			x		
19J1	J	TG51E22	SPLICE		x			
19J1	J	TG51D22	22A4P13	R		x		
19J1	J	A278B22(WHT)	19TB6	H1	x	x		
19J1	K	TG200J22	SPLICE		x			
19J1	K	TG200J22	19TB4	E10		x		
19J1	L	TG202D22	SPLICE		x	x		
19J1	L	TG202D22	22A4P15	N		x		
19J1	M	A229C22	SPLICE		x			
19J1	M	TG251G22	SPLICE			x		
19J1	N	TG201G22	SPLICE		x			
19J1	N	TG212C22	SPLICE			x		
19J1	N	TG212C22	22A4P15	Q		x		
19J1	P	A147H22	SPLICE			x		
19J1	P	A147J22	SPLICE		x			
19J1	R	A216C22	SPLICE		x	x		
19J1	S	A219G22	19TB	F3	x	x		
19J1	T	A156C22	SPLICE		x	x		
19J1	U	A188D22	SPLICE		x			
19J1	V	A226F22	19TB4	K17	x	x		
19J1	W	A300A22N	GND		x	x		
1971	Y	A113D22	SPLICE		x	x		
19J1	Z	A118D22	SPLICE		x	x		
19J2	A	A222M20	SPLICE		x			
19J2	A	A222R20	SPLICE			x		
19J2	B	A398A22N	GND		x	x		
19J2	C	A221D22(WHT)	SPLICE		x	x		
19J2	D	A221D22(BLU)	GND		x			
19J2	D	A221D22N(BLU)	GND			x		
19J2	E	A100A22(WHT)	19J250	A	x	x		
19J247	AA	A107D22	SPLICE		x	x		
19J247	BB	A107E22	SPLICE		x	x		
19J247	C	A136B22	SPLICE		x	x		
19J247	D	A100A22(BLU)	19J250	Z	x	x		
19J247	E	A100A22(WHT)	19J250	A	x	x		
19J247	E	A119A22(BLU)	19J250	D	x	x		
19J247	E	A108B22	SPLICE		x	x		
19J247	F	A101A22	19J250	BB	x	x		
19J247	FF	A119A22(WHT)	19J250	E	x	x		
19J247	F	A113C22	SPLICE		x	x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19J247	G	A112C22	SPLICE		x			
19J247	GG	A120A22(WHT)	19J250	C	x	x		
19J247	G	A114A22(WHT)	19A4P249	W	x	x		
19J247	H	A112D22(WHT)	19A4P249	C	x	x		
19J247	HH	A120A22(BLU)	19J250	B	x	x		
19J247	H	A114A22(BLU)	19A4P249	P	x	x		
19J247	I	A115A22(BLU)	19A4P249	U	x	x		
19J247	J	A102A22	19J250	AA	x	x		
19J247	J	A115A22(WHT)	19A4P249	V	x			
19J247	K	A103A22	19J250	CC	x	x		
19J247	K	A106B22	SPLICE		x	x		
19J247	L	A104A22(BLU)	19J250	Y	x			
19J247	L	A104A22(BLU)	19J250	X		x		
19J247	M	A104A22(WHT)	19J250	X	x			
19J247	M	A104A22(WHT)	19J250	Y		x		
19J247	M	A112A22	SPLICE		x	x		
19J247	N	A112B22	SPLICE		x	x		
19J247	N	A234A22(BLU)	19A5P1	E	x	x		
19J247	P	A116A22N	GND		x	x		
19J247	P	A117A22N	GND		x	x		
19J247	Q	A234A22(WHT)	19A5P1	U	x	x		
19J247	R	A107A22	SPLICE		x	x		
19J247	S	A107B22	SPLICE		x	x		
19J247	T	A106A22	SPLICE		x	x		
19J247	U	A115A22(WHT)	19A4P249	V		x		
19J247	U	A109A22(WHT)	19J250	U	x	x		
19J247	V	A109A22(BLU)	19J250	T	x			
19J247	W	A118C22(WHT)	SPLICE		x	x		
19J247	W	A110A22(WHT)	19J250	V	x	x		
19J247	X	A118C22(BLU)	SPLICE		x	x		
19J247	X	A110A22(BLU)	19J250	W	x	x		
19J247	Y	A107G22	SPLICE		x	x		
19J247	Y	A127D22	SPLICE		x	x		
19J247	Z	A108A22	SPLICE		x	x		
19J248	Z	A121A10	19S19	L2	x	x		
19J248	A	A123A10N	GND		x	x		
19J248	B	A122E14	SPLICE		x	x		
19J248	C	A121B16(BLU)	SPLICE			x		
19J248	D	A127B16(BLU)	SPLICE		x	x		
19J248	D	A121B16(WHT)	SPLICE			x		
19J248	E	A127B16(WHT)	SPLICE		x	x		
19J248	E	A126A22	19A4P270	A	x	x		
19J248	F	A124A10N	GND		x	x		
19J248	G	A109A22(BLU)	19J250	T		x		
19J250	W	A102A22	19J247	J	x	x		
19J250	AA	A100A22(WHT)	19J247	E	x	x		
19J250	A	A101A22	19J247	F	x	x		
19J250	BB	A120A22(BLU)	19J247	HH	x	x		
19J250	B	A103A22	19J247	K	x	x		
19J250	CC							

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
19J250	DD	A120A22(WHT)	19J247	GG	x	x		
19J250	DD	A149B22	END CAP			x		
19J250	EE	A119A22(BLU)	19J247	EE	x	x		
19J250	EE	A157B22(WHT)	SPLICE		x	x		
19J250	FF	A119A22(WHT)	19J247	FF	x	x		
19J250	FF	A157B22(BLU)	SPLICE		x	x		
19J250	GG	A130C22(BLU)	19A4P249	G	x	x		
19J250	GG	A161B22(BLU)	19TB7	F3		x		
19J250	GG	A161B22(BLU)	22A4P311	V	x			
19J250	GG	A130C22(WHT)	SPLICE		x	x		
19J250	HH	A161B22(WHT)	SPLICE		x			
19J250	HH	A161B22(WHT)	19TB7	A3		x		
19J250	HH	A159B22(BLU)	SPLICE		x	x		
19J250	HH	A155B22	19A5P2	B	x	x		
19J250	HH	A154B22(BLU)	19A5P1	H	x	x		
19J250	II	A133B22	SPLICE		x	x		
19J250	II	A160B22(WHT)	SPLICE		x			
19J250	II	A160B22(WHT)	19TB7	A1		x		
19J250	II	A159B22(WHT)	SPLICE		x	x		
19J250	II	A160B22(BLU)	SPLICE		x			
19J250	II	A160B22(BLU)	19TB7	F1		x		
19J250	II	A139A22(WHT)	19A4P249	Y	x	x		
19J250	II	A118B22(BLU)	SPLICE		x	x		
19J250	II	A139A22(BLU)	19A4P249	Z	x	x		
19J250	II	A113B22	SPLICE		x	x		
19J250	II	A154B22(WHT)	19A5P1	G	x	x		
19J250	II	A118B22(WHT)	SPLICE		x	x		
19J250	II	A131A22(BLU)	19A4P249	K	x	x		
19J250	II	A131A22(WHT)	19A4P249	J	x	x		
19J250	II	A106C22(WHT)	SPLICE		x	x		
19J250	II	A150B22	SHLD		x	x		
19J250	II	A106C22(BLU)	SPLICE		x			
19J250	II	A145A22(WHT)	19A4P271	G	x	x		
19J250	II	A109A22(BLU)	19J247	W	x			
19J250	II	A109A22(BLU)	19J248	W		x		
19J250	II	A145A22(BLU)	19A4P271	H	x	x		
19J250	II	A109A22(WHT)	19J247	V	x	x		
19J250	II	A141A22	19A4P271	E	x	x		
19J250	II	A110A22(WHT)	19J247	X	x	x		
19J250	II	A147B22	SPLICE		x	x		
19J250	II	A110A22(BLU)	19J247	Y	x	x		
19J250	II	A104A22(BLU)	19J241	L		x		
19J250	II	A104A22(WHT)	19J247	M	x			
19J250	II	A104A22(WHT)	19J247	M		x		
19J250	II	A208C22	19A4P271	R	x	x		
19J250	II	A104A22(BLU)	19J247	L	x			
19J250	II	A100A22(BLU)	19J247	D	x	x		
19J250	II	A156B22	SPLICE		x	x		
19K1P1	A	A522A20N	GND				x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19K1P1	B	A64A22	2TB1	1		x		
19K1P1	D	P6A22	1TB3	E9			x	
19K1P1	E	A411C20	19TB3	7			x	
19K1P1	F	A63H20	SPLICE				x	
19K1P1	H	P57A22	2K2	X2			x	
19K1P1	K	A63G20	SPLICE				x	
19K31	A1	A207A22	SPLICE		x	x		
19K31	A1	A395A20	19XK91	B2			x	
19K31	A1	A395B20	19XK92	B2			x	
19K31	A2	A186C22	SPLICE		x	x		
19K31	A2	A370G20	19K31	X1			x	
19K31	A3	A215A22	SPLICE		x	x		
19K31	B1	A128C20	SPLICE			x		
19K31	B2	A220E16	SPLICE			x		
19K31	B2	A220E20	SPLICE		x			
19K31	B2	A528H20	19TB4	J			x	
19K31	B2	A220F20	22A5P2	59		x		
19K31	B2	A220F116	19XK38	B2	x			
19K31	B2	A220G20	22A5P2	56		x		
19K31	B3	A392A20	19XK91	A2			x	
19K31	B3	A392B20	19XK92	A2			x	
19K31	D1	A449A20	21A1P1	29	x	x		
19K31	D1	A449A16	21A3P1	L			x	
19K31	D1	A449B16	21A2P1	L			x	
19K31	D2	A359C16	21A3P1	K			x	
19K31	D2	A359D16	21A2P1	K			x	
19K31	D2	A359B16	3A1J1	FF			x	
19K31	D2	A359B20	3A1J1	P	x	x		
19K31	X1	A370G20	19K31	A2			x	
19K31	X1	A370E20	19TB2	1			x	
19K31,	X1	A219C22	19TB4	B3	x	x		
19K31	X2	A218A22N	GND		x	x		
19K31	X2	A64A20N	GND				x	
19K5	A1	A163A4	19S18	L2	x	x		
19K5	A1	A163B4	19A3	+	x	x		
19K5	A1	A163C10	19S20	L1	x			
19K5	A2	A166A6	19S19	L1	x	x		
19K5	A2	A163C10	19S20	L1		x		
19K5	X1	A165A22	19S19	S2	x	x		
19K5	X2	A164A22	19A5P2	N	x	x		
19K6	A1	A169A20	19S20	L2	x	x		
19K6	A2	A173A20	19S17	NC	x	x		
19K6	X1	A127C22(BLU)	SPLICE		x	x		
19K6	X2	A127C22(WHT)	SPLICE		x	x		
19K7	A1	A388A4	19S18	L1	x	x		
19K7	A2	A389A4	2K13	A2	x	x		
19K7	X1	A390A22	19A4P271	J	x	x		
19K7	X2	A391A22N	GND		x	x		
19K80	F3	TG236A22	20A4P01	Z	x		x	
19K82P1	A	A180A20N	GND				x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19K82P1	A	A307A22N	GND		x	x		
19K82P1	B	A178A20N	GND				x	
19K82P1	B	A306A22N	GND		x	x		
19K82P1	E	A179A20	20TB3	2			x	
19K82P1	E	A342A22	20TB3	2	x	x		
19K82P1	F	A169A20	19XK85	X2			x	
19K82P1	F	A338A22	19XK85	X2	x			
19K82P1	F	A338A22	22A5P1	99		x		
19K82P1	K	A339A22	SPLICE		x	x		
19K82P1	K	A170B20	SPLICE				x	
19L1	B	A86A20N	GND				x	
19L1P1	A	A314A20	1XK5	B3	x		x	
19M1	1	A207C22	22A3J1	P	x	x		
19M1	1	A987B22	22A3J1	D			x	
19M1	2	A997A22N	GND				x	
19M1	2	A208A22	22A3J1	D	x	x		
19M1	3	A212D22 **	8J102		x	x		
19M1	4	A224A22N	GND			x		
19M1	4	L260A22N	GND		x			
19M2	1	A986B22	22A3J1	P			x	
19M2	2	A998A22N	GND				x	
19P250	AA	A102B22	21XK6	B3	x			
19P250	AA	A102B22	21XK10	A2		x		
19P250	A	A100B22(WHT)	19A3P244	D	x	x		
19P250	BB	A101B22	8A2P1	h	x	x		
19P250	B	A120B22(BLU)	19A3P244	C	x	x		
19P250	CC	A103B20	19TB4	C12		x		
19P250	CC	A103B22	19XK80	C1	x			
19P250	CC	A103B22	19XK80	C2	x			
19P250	C	A120B22(WHT)	19A3P244	K	x	x		
19P250	DD	A149A22	END CAP			x		
19P250	D	A119B22(BLU)	19A3P244	B	x	x		
19P250	EE	A157A22(WHT)	19A3P243	B		x		
19P250	EE	A157A22(WHT)	19A3P245	B	x			
19P250	E	A119B22(WHT)	19A3P244	A	x	x		
19P250	FF	A157A22(BLU)	19A3P243	C		x		
19P250	FF	A157A22(BLU)	19A3P245	C	x			
19P250	E	A130D22(BLU)	19A3P242	K	x	x		
19P250	G	A161A22(BLU)	19A3P243	S		x		
19P250	G	A161A22(BLU)	19A3P245	S	x			
19P250	G	A130D22(WHT)	19A3P242	L	x	x		
19P250	H	A161A22(WHT)	19A3P243	R		x		
19P250	H	A161A22(WHT)	19A3P245	R	x			
19P250	HH	A159A22(BLU)	19A3P243	T		x		
19P250	HH	A159A22(BLU)	19A3P245	T	x			
19P250	H	A155A22	19A3P242	N	x	x		
19P250	I	A154A22(BLU)	19A3P242	P	x	x		
19P250	J	A160A22(WHT)	19A3P243	N		x		
19P250	J	A160A22(WHT)	19A3P245	N	x			

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
19P250	JJ	A159A22(WHT)	19A3P243	M		x		
19P250	J	A133C22	19A3P242	U	x	x		
19P250	K	A160A22(BLU)	19A3P243	P		x		
19P250	K	A160A22(BLU)	19A3P245	P	x			
19P250	K	A139B22(WHT)	19A3P242	H	x	x		
19P250	JJ	A159A22(WHT)	19A3P245	M	x			
19P250	LL	A158A22	19A3P243	K		x		
19P250	LL	A158A22	19A3P245	K	x			
19J250	LL	A158B22	19TB4	H2	x	x		
19P250	M	A118A22(BLU)	19A3P244	M	x	x		
19P250	M	A139B22(BLU)	19A3P242	J	x	x		
19P250	N	A113A22	19A3P244	N	x	x		
19P250	N	A154A22(WHT)	19A3P242	D	x	x		
19P250	P	A118A22(WHT)	19A3P244	U	x	x		
19P250	P	A131B22(BLU)	19A3P242	E	x	x		
19P250	Q	A131B22(WHT)	19A3P242	G	x	x		
19P250	R	A106D22(WHT)	19A3P244	J	x	x		
19P250	R	A150A22	SHLD		x	x		
19P250	S	A106D22(BLU)	19A3P244	H	x	x		
19P250	S	A145B22(WHT)	19XK38	D1	x			
19P250	S	A145B22(WHT)	22A5P2	64		x		
19P250	T	A145B22N(BLU)	GND		x	x		
19P250	T	A109B22(BLU)	19A3P244	S	x	x		
19P250	U	A109B22(WHT)	19A3P244	T	x	x		
19P250	V	A110B22(WHT)	19A3P244	R	x	x		
19P250	V	A141B22	19TB4	D12		x		
19P250	V	A141B22	19TB4	G18	x			
19P250	W	A147C22	SPLICE		x	x		
19P250	W	A110B22(BLU)	19A3P244	P	x	x		
19P250	X	A104B22(WHT)	19A3P244	G	x	x		
19P250	Y	A104B22(BLU)	19A3P244	F	x	x		
19P250	Y	A208B22	22A3P1	D	x	x		
19P250	Z	A100B22(BLU)	19A3P244	E	x	x		
19P250	Z	A156A22	19A3P242	S	x			
19R1	2	A529N20	19S15	2			x	
19R1	3	A275A22	19S15	5			x	
19R2P1	A	A496A22(BLU)	19A1J8	A			x	
19R2P1	B	A496A22(ORN)	19A1J8	B			x	
19R2P1	C	A496A22(WHT)	19A1J8	C			x	
19S1		31	5A2P1	F			x	
19S1		37	5A2P1	A			x	
19S1		38	5A2P1	B			x	
19S1		29	5A2P1	C			x	
19S1		39	5A2P1	D			x	
19S1		30	5A2P1	E			x	
19S2		32	5A2P1	N			x	
19S2		33	5A2P1	S			x	
19S3	2	A156E22	22A3J1	R				
19S3	3	A209A22N	GND					

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
19S4	2	A328A22	22A2J1	J		X		
19S4	3	A303B22	22A2J1	<u>K</u>		X		
19S4	3	A303C22	22A2J1	<u>K</u>				
19S5	1	A354A22	22A2J1	<u>M</u>	X			
19S5	2	A356A22	19S5	6	X	X		
19S5	2	A540B22	22A3J1	<u>H</u>			X	
19S5	2	A540C22	19S5	5			X	
19S5	3	A228B20	22A3J1	M			X	
19S5	3	A354A22	22A2J1	<u>M</u>		X		
19S5	4	A230B22	22A3J1	<u>G</u>			X	
19S5	4	A355A22	22A2J1	<u>N</u>	X	X		
19S5	5	A187B22	SPLICE		X			
19S5	5	A187B20	SPLICE			X		
19S5	5	A540C22	19S5	2			X	
19S5	6	A356A22	19S5	2	X	X		
19S6	1	A188A22	22A3J1	L	X			
19S6	1	A541A22	22A3J1	L			X	
19S6	2	A187G22	22A3J1	B	X	X		
19S6	2	A528R20	22A3J1	B			X	
19S6	3	A188A22	22A3J1	P		X		
19S7	1	A210A22	22A3J1	<u>C</u>	X	X		
19S7	1	A982A20	22A3J1	<u>C</u>			X	
19S7	2	A222M22	SPLICE		X			
19S7	2	A222P22	SPLICE			X		
19S7	2	A63J20	22A3J1	<u>M</u>			X	
19S8	1	A184A22	22A3J1	<u>E</u>		X		
19S8	1	TG538A22	22A3J1	<u>P</u>	X			
19S8	2	A183A22	19S8	4	X	X		
19S8	2	A409A20	19S8	4			X	
19S8	3	A184A22	22A3J1	<u>E</u>	X			
19S8	3	A543A22	22A3J1	<u>E</u>			X	
19S8	4	A183A22	19S8		X	X		
19S8	4	A409A20	19S8	2			X	
19S8	5	A186E22	22A3J1	V	X	X		
19S8	5	A186F22	SPLICE		X	X		
19S8	5	A529G20	19DS3	3			X	
19S8	5	A529H20	19S16	1			X	
19S8	6	A185A22	22A3J1	A	X			
19S8	6	A342A22	22A3J1	A			X	
19S12	1	A370A20	22A2J1	L			X	
19S12	1	A480A22	22A2J1	R	X	X		
19S12	2	A222H22	SPLICE		X	X		
19S12	3	A63D20	22A2J1	M			X	
19S12	4	A219A22	22A2J1	L	X	X		
19S12	4	A528A20	17S1	2			X	
19S12	4	A528A22	22A2J1	B			X	
19S12	4	A528C20	22A2J1	W			X	
19S12	4	A528S20	17S1	2			X	
19S12	5	A211E22	22A2J1	M		X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
19S12	5	A211G22	22A2J1	M	x			
19S12	5	A420G20	19DS4	B(NO			x	
19S12	5	A420F20	22A2J1	A			x	
19S13	1	A231A22	22A2J1	A	x	x		
19S13	1	A375A20	22A2J1	N			x	
19S13	1	A970A20	22A2J1	A			x	
19S13	2	A230B22	22A2J1	X	x	x		
19S13	2	A966B20	22A2J1	E2			x	
19S13	3	A376A22	19CR17	5	x	x		
19S13	3	A868A20	19S13	Z			x	
19S13	3	A968B20	22A2J1	C			x	
19S13	4	A147H22	22A2J1	C	x			
19S13	4	A391A22	22A2J1	H			x	
19S13	4	A391C22	22A2J1	C			x	
19S13	4	A468D22	22A2J1	E1		x		
19S13	5	A377A22	19CR18	C	x	x		
19S12	5	A420D20	22A2J1	3			x	
19S13	5	A868A20	19S13	U			x	
19S13	6	A391C20	22A2J1	Y			x	
19S13	8	A967B20	22A2J1	11			x	
19S13	8	A967C20	19S13				x	
19S13	8	A343H22	SPLICE	12	x			
19S13	9	A385A20	19S13	K			x	
19S13	9	A385B20	22A2J1	B			x	
19S13	10	A353A22	22A2J1	B	x	x		
19S13	10	A969A20	22A2J1	Y			x	
19S13	11	A352B2	22A2J1	8	x	x		
19S13	11	A967C20	19S13				x	
19S13	12	A343G22	SPLICE	9	x			
19S13	12	A385A20	19S13	5			x	
19S13	12	A385G20	19S14	K			x	
19S13	12	A465C22	22A2J1	5		x		
19S14	2	A385H20	19S14	R			x	
19S14	3	A229B22	22A2J1	S			x	
19S14	4	A231B22	22A2J1	12			x	
19S14	5	A385G20	19S13	2			x	
19S14	5	A385H20	19S14	B			x	
19S15	1	A527A20	19A13J2	3			x	
19S15	1	A527B20	19S15				x	
19S15	2	A529M20	SPLICE	2	x		x	
19S15	2	A529N20	19R1	1			x	
19S15	3	A527B20	19S15	C			x	
19S15	4	A525A20	19A13J1	3			x	
19S15	5	A275A22	19R1	A			x	
19S15	6	A523A20	19A13J1				x	
19S16	1	A186K22	SPLICE		x	x		
19S16	1	A186L222	17S4	5	x	x		
19S16	1	A529H20	19S8	2			x	
19S16	1	A529J20	17S4	A			x	
19S16	2	A192A22	22A3J1		x	x		

END		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
19S16	2	A558A20	22A3J1	<u>A</u>			X	
19S16	5	A219H22	22A3J1	<u>E</u>		<u>V</u>		
19S16	6	A478A22	22A3J1	F		X		
19S17	NC	A173A20	19K6	A2	x	x		
19S17	NC	A176B16(WHT)	19B1J1	A	x	x		
19S17	NC	A176A20	19S17	NO	x	x		
19S17	NO	A176A20	19S17	NC	x	x		
19S17	NO	A176C16(WHT)	19B1J1	B	x			
19S17	NO	A176C16(WHT)	19B1J1	B		x		
19S17	NO	A177A20	19CB126	10	x	x		
19S18	L1	A388A4	19K7	A1	x	x		
19S18	L2	A163A4	19K5	A1	x	x		
19S18	S1	A175B22	3A1J1	<u>K</u>	x	x		
19S18	S2	A142A22	19A4P271	F	x	x		
19S18	S3	A174A22N	GND		x	x		
19S19	L1	A166A6	19K5	A2	x	x		
19S19	L2	A121A10	19J248	A	x	x		
19S19	S1	A168A22	19S20	S1	x	x		
19S19	S2	A165A22	19K5	X1	x	x		
19S19	S3	A167A22N	GND		x	x		
19S20	<u>L1</u>	A163C10	19K5	A1	x			
19S20	L1	A163C10	19K5	A2		x		
19S20	L2	A169A20	19K6	A1	x	x		
19S20	S1	A168A22	19S19	S1	x	x		
19S20	S2	A171B22	3A1J1	CC	x	x		
19S20	S3	A170A22N	GND		x	x		
19TB1	1	A345A1N	GND				x	
19TB1	17C	C260A22	2XK18		x			
19TB2	1	A370C20	19A1J4	<u>B</u>			x	
19TB2	1	A370D20	19CR1	A			x	
19TB2	1	A370E20	19K31	X1			x	
19TB2	1	A529X20	19CR35	6			x	
19TB2	1	A370B20	22A2P1	L			x	
19TB2	2	A528B20	22A2P1	B			x	
19TB2	2	A529A20	22A3P1	V			x	
19TB2	3	A529L20	SPLICE				x	
19TB2	3	A529S20	19TB5	F			x	
19TB3	1	E41B-ALUMEL	1J5	B	x		x	
19TB3	1	E41C-ALUMEL	1M11P1	U	x		x	
19TB3	1	E41D-ALUMEL	1M1P1	U	x		x	
19TB3	10	A192A22	19A1J4	<u>G</u>			x	
19TB3	2	E40B-CHROMEL	1J5	A	x			
19TB3	2	E40C-CHROMEL	1M11P1	T	x		x	
19TB3	2	E40D-CHROMEL	1M1P1	T	x		x	
19TB3	3	E40B-CHROMEL	1J5	A			x	
19TB3	5	A529P20	22A3P1	<u>I</u>			x	
19TB3	7	A411A20	19XK81	A1			x	
19TB3	7	A411B20	19A1J4	P			x	
19TB3	7	A411C20	19K1P1	E			x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19TB3	8	A546A20	19XK80	A1			x	
19TB3	8	A546B20	5A2J1	N			x	
19TB3	9	A976C20	4A3J1	S			x	
19TB3	9	A976D20	19XK85	A3			x	
19TB4	A	A528D20	22A2P1	W			x	
19TB4	A10	TG200B22	20J332	EE		x		
19TB4	A11	A405A22	21XK10	B3		x		
19TB4	A11	TG283A22	4A1J1	X	x		x	
19TB4	A12	TG256A22	20A4P02	G	x		x	
19TB4	A13	A500G20	19XK80	E2				
19TB4	A14	A447B20	22A3P1	T	x	x	x	
19TB4	A14	A447F20	21J2	Y	x	x	x	
19TB4	A15	A224A20	2XK16	F1	x			
19TB4	A15	A322A22	22A5P1	186		x		
19TB4	A16	A148A22	19A4P271	P	x	x		
19TB4	A19	TG206A22	19TB4	A8	x	x		
19TB4	A3	A219B22	22A2P1	L	x	x		
19TB4	A4	A187R20	22A4P15	G		x		
19TB4	A4	A187R22	SPLICE		x			
19TB4	A5	A528W20	21K7P1	K	x	x	x	
19TB4	A8	TG6000A22	19XK88	X1			x	
19TB4	A8	TG206A22	19TB4	A19	x	x		
19TB4	A	TG284B22	20DS1	C			x	
19TB4	B	A189A22	19XK59	C2			x	
19TB4	B	A427A20	19XK85	A2			x	
19TB4	B	A421A20	19XK86	A			x	
19TB4	B1	A238A22	SPLICE		x	x		
19TB4	B10	TG200G22	19A5P2	A		x		
19TB4	B11	A406A22	22A5P1	48		x	x	
19TB4	B12	A404A22	21XK10	B2		x		
19TB4	B12	TG258A22	20A4P02	J	x		x	
19TB4	B13	A500B20	19XK80	C2			x	
19TB4	B14	A447C20	22A2P1	F	x	x	x	
19TB4	B15	A322B22	22A5P1	184		x		
19TB4	B16	A148B22	5A2J1	C	x	x		
19TB4	B17	A287A22	22A5P1	208	x	x		
19TB4	B18	A226G22	SPLICE		x	x		
19TB4	B19	TG600A22	22A5P1	150		x		
19TB4	B19	TG600A22	19XK88	X1	x			
19TB4	B2	A291A22	19XK101	B1	x			
19TB4	B2	A291A22	22A5P1	178		x		
19TB4	B20	A222N20	SPLICE			x		
19TB4	B3	A219C22	19K31	X1	x	x		
19TB4	B4	A187F20	22A3P1	B		x		
19TB4	B4	A187F22	22A3P1	B	x			
19TB4	B4	A528K20	19XK84	X1			x	
19TB4	B5	A528V20	21A1P1	J			x	
19TB4	B5	A528V20	SPLICE		x	x		
19TB4	B5	A528V20	SPLICE			x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
19TB4	B6	A226C22	19TB4	C18	x			
19TB4	B6	A317A22	22A5P1	172		x		
19TB4	B9	TG601A22	20S2	2		x	x	
19TB4	C	A188A22	19XK59	D2			x	
19TB4	C	A428A20	19XK85	X1			x	
19TB4	C1	TG234A22	20A4P01	Y	x	x	x	
19TB4	C10	TG200C22	22A4P15	M		x		
19TB4	C11	A515A20	4A3J1	T		x		
19TB4	C12	A103B22	19P250	CC		x		
19TB4	C12	TG260A22	20A4P02	L	x		x	
19TB4	C14	A447E20	SPLICE		x	x	x	
19TB4	C16	A148C22	19XKB	A2	x			
19TB4	C16	A148C22	22A5P1	78		x		
19TB4	C17	A287B22	19XK87	B3	x			
19TB4	C18	A226C22	19TB4	B6	x			
19TB4	C18	A226C22	22A5P1	109		x		
19TB4	C2	A290A22	19XK101	X1	x			
19TB4	C2	A290A22	22A5P1	174		x		
19TB4	C3	A219D22	22A3P1	3		x		
19TB4	C4	A187E20	22A2P1	B		x		
19TB4	C4	A187E22	22A2P1	B	x			
19TB4	C4	A528L20	24A4P311	C			x	
19TB4	C5	A528U20	21K1	X1	x	x	x	
19TB4	C7	A506A20	21XK2	X1	x	x	x	
19TB4	C9	A318A22	19XK85	B2	x			
19TB4	D	A187A22	19XK59	E2			x	
19TB4	D	A428B20	19XK85	B1			x	
19TB4	D1	A237A22	22A5P1	170		x		
19TB4	D1	A237A22	19XK87	D1	x			
19TB4	D1	A425A20	19XK87	D1			x	
19TB4	D10	TG200F22	22A5P1	64		x		
19TB4	D11	A353B22	22A2P1	B		x		
19TB4	D12	A141B22	19P250	V		x		
19TB4	D12	TG262A22	20A4P02	N	x		x	
19TB4	D16	A148D22	4A3J1	C	x	x		
19TB4	D17	A226J22	19A5P2	B	x	x		
19TB4	D18	A289A22	19XK101	B2	x			
19TB4	D18	A289A22	22A5P1	179		x		
19TB4	D20	A222K20	2XK16	F1		x		
19TB4	D3	A219E22	19XK80	B2	x			
19TB4	D4	A187S20	22A5P1	126		x		
19TB4	D4	A528M20	17A1P1	L			x	
19TB4	D5	TG182A20	4A2J1	S	x	x	x	
19TB4	D6	A465A20	21A2P2	R			x	
19TB4	D6	A465A22	22A2P1	K		x		
19TB4	D8	TG201C22	20J332	PP	x	x	x	
19TB4	D9	TG199A22	20A6P01	E	x	x	x	
19TB4	E	A186A22	19XK59	F2			x	
19TB4	E10	TG200J22	19J1	K		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19TB4	E11	A353G22	22A5P1	50		X		
19TB4	E15	A222K20	SPLICE		X			
19TB4	E16	A148E22	19XK87	D3	X			
19TB4	E17	A226D22	19XK85	A3	X			
19TB4	E17	A226D22	22ASP1	103		X		
19TB4	E19	A468A22	C			X		
19TB4	E3	A219F22	19XK80	D2	X			
19TB4	E3	A219F22	22A5P2	47		X		
19TB4	E4	A187H20	SHIELD		X			
19TB4	E4	A528N20	19XK83	X1			X	
19TB4	E4	A187H20	22A5P1	38		X		
19TB4	E5	A187X22	2XK17	X1	X			
19TB4	E9	A1102A22	SPLICE			X		
19TB4	E9	A1102A22	22A5P1	18	X			
19TB4	F	A370F20	19XK80	B2			X	
19TB4	F16	A377A22	19A1J5	E			X	
19TB4	F	A424A20	19XK85	B2			X	
19TB4	F	A528E20	19TB4	K			X	
19TB4	F	A796A20	19XK86	B1			X	
19TB4	F10	TG255A22	20A4P02	F	X		X	
19TB4	F11	TG284A22	4A1J1	Y	X		X	
19TB4	F11	A402A20	21XK10	X1		X		
19TB4	F12	A326A22	22A5P1	199		X		
19TB4	F13	A500C20	21A1P1	H			X	
19TB4	F14	A48B20	22A3P1	U			X	
19TB4	F14	A557B20	22AP1	J	X	X		
19TB4	F16	A226B22	22A2P1	Z	X	X		
19TB4	F18	A289C22	19TB4	K18		X		
19TB4	F19	TG208A22	20XK1	A3	X			
19TB4	F19	TG208A22	22A5P1	65		X		
19TB4	F3	A219G22	19J1	S	X	X		
19TB4	F4	A288A20	4A3J1	S		X		
19TB4	F5	A187T20	19TB4	K4		X		
19TB4	F5	A187Y22	19TB4	K4	X			
19TB4	F6	A229B22	22A5P1	210		X		
19TB4	F7	TG443F22	SPLICE		X	X	X	
19TB4	F8	TG202A22	SPLICE		X			
19TB4	F8	TG202C22	SPLICE			X		
19TB4	F8	TG202A22	22A4P313	M			X	
19TB4	F9	TG601A22	20S2	2	X			
19TB4	G	A370K20	21XK6	B2			X	
19TB4	G	A393A22	19A1J5	E			X	
19TB4	G	A528F20	19XK80	A2			X	
19TB4	G1	A218A20	19TB4	K(2)			X	
19TB4	G1	A239A22	19XK85	A2	X			
19TB4	G1	A239A22	22A5P1	102		X		
19TB4	G10	TH257A22	20A4P02	H	X		X	
19TB4	G13	A280B22	22A4P15	I	X	X		
19TB4	G13	A500A20	21XK6	B3			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19TB4	G14	A48D20	21A1P1	D			x	
19TB4	G15	A334A20	21K7P1	E			x	
19TB4	G16	A226E22	22A4P311	E	x			
19TB4	G16	A226E22	22A4P15	R		x		
19TB4	G18	A141B22	19P250	V	x			
19TB4	G2	A158D22	19J1	D	x	x		
19TB4	G20	TG7A22	20A2P03	B		x		
19TB4	G3	A219J22	22A5P2	71		x		
19TB4	G3	A219J22	21XK6	B2	x			
19TB4	G4	A187M20	19J1	G		x		
19TB4	G4	A187M22	19J1	G	x			
19TB4	G5	A187L20	17A1	L		x		
19TB4	G5	A187W22	17A1P1	L	x			
19TB4	G6	TG251D22	SPLICE		x	x	x	
19TB4	G8	TG202B22	20A6P01	M	x	x	x	
19TB4	G9	A316A22	19XK83	A1	x			
19TB4	G9	A316A22	22A5P1	93		x		
19TB4	G10	TG200A22	20A6P01	K		x		
19TB4	G11	A403A20	22A5P2	43		x		
19TB4	G12	A326C22	21K7P1	H		x		
19TB4	G14	A557D20	22A3P1	U	x	x		
19TB4	G15	A322C22	22A5P1	94		x		
19TB4	G18	A407A22	22A5P1	49		x		
19TB4	H16	A368A22	19A1J5	B			x	
19TB4	H	A528G20	19XK80	F2			x	
19TB4	H10	TG200D22	5A1P1	B		x		
19TB4	H10	TG259A22	20A4P02	K	x		x	
19TB4	H11	A501A20	5A2J1	R		x		
19TB4	H12	A326B22	22A5P1	187		x		
19TB4	H14	A48C20	21A3P1	G			x	
19TB4	H14	A557E20	21A12P1	100		x		
19TB4	H14	A557E20	21A1P1	100	x			
19TB4	H15	A322D22	17A1	G		x		
19TB4	H16	A226H22	19TB4	J17	x	x		
19TB4	H17	A147G22	SPLICE			x		
19TB4	H17	A288A22	4A3J1	S	x			
19TB4	H18	A141C22	21K7P1	E	x	x		
19TB4	H2	A158B22	19J250	LL	x	x		
19TB4	H20	TG1A22	20A1J09	E		x		
19TB4	H3	A219H22	19XK102	X1	x			
19TB4	H4	A187N20	22A5P1	215		x		
19TB4	H4	A187N22	19XK95	B2	x			
19TB4	H5	A187J20	22A5P1	92		x		
19TB4	H5	A187U22	19XK83	X1	x			
19TB4	H6	A229A22	SPLICE		x			
19TB4	H6	A229A22	19XK87	X1	x			
19TB4	H6	A229A22	22A5P1	196		x		
19TB4	J	A394A22	19A1J5	F			x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19TB4	J	A528H20	19K31	B2			x	
19TB4	J	A840A22	19XK59	X1			x	
19TB4	J1	A240B22	19XK86	B1	x			
19TB4	J1	A457A22	22A5P1	168		x		
19TB4	J10	TG261A22	20A4P02	M	x		x	
19TB4	J11	A35F22	20A1J09	J		x		
19TB4	J11	A353D22	SPLICE			x		
19TB4	J13	A280A22	22A5P1	188		x		
19TB4	J17	A226H22	19TB4	H16	x	x		
19TB4	J18	A289B22	19XK106	A1	x			
19TB4	J19	A468B22	16A1P2	58		x		
19TB4	J2	A18E22	SPLICE		x	x		
19TB4	J20	TG1B22	22A5P1	31		x		
19TB4	J4	A187P22	19XK38	C1	x			
19TB4	J4	A187P20	22A5P2	61		x		
19TB4	J5	A187K20	22A5P1	182		x		
19TB4	J5	A528P20	22A3P1	B			x	
19TB4	J5	A187V22	19XK84	X1	x			
19TB4	J6	A228A22	19XK59	X1				
19TB4	J6	A465B22	22A5P1	118		x		
19TB4	J7	A315A22	19XK81	A2				
19TB4	J7	A315A22	22A5P1	86		x		
19TB4	J8	TG201F22	SPLICE		x			
19TB4	J8	TH201A22	22A4P313	K			x	
19TB4	K	A215A20	19XK81	C2			x	
19TB4	K	A528E20	19TB4	F			x	
19TB4	K7	A528J20	22A2P1	I			x	
19TB4	K11	A353C22	19XK86	A2	x			
19TB4	K11	A353C22	22A5P1	201		x		
19TB4	K18	A289C22	19TB4	F18		x		
19TB4	K2	A158C22	20J332	NN	x			
19TB4	K2	A218A20	19XK83	A1			x	
19TB4	K2	A218A20	19TB4	G(1)		x		
19TB4	K2	A158C22	20J332	NN	x	x		
19TB4	K4	A187Y22	19TB4	F5	x			
19TB4	K4	A187T20	19TB4	F5		x		
19TB4	K5	A187Z22	SPLICE		x			
19TB4	K5	A1033A22	SPLICE			x		
19TB4	K8	TG201B22	SPLICE		x	x	x	
19TB4	K9	A317A22	19XK86	A1	x			
19TB4	K15	A1228A22	16A1P2	64		x		
19TB4	K16	A226K22	SPLICE		x	x		
19TB4	K17	A226F22	19J1	V	x	x		
19TB4	K19	A468C22	22A5P1	123		x		
19TB4	4	A968D22	SPLICE				x	
19TB4	7A	TG393F22	SPLICE		x	x	x	
19TB5	A5	A383A22	17A1P1	<u>W</u>	x	x		
19TB5	A6	A214B22	1A2J1	T	x	x		
19TB5	B1	A363A22	22A5P1	140		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19TB5	B2	A221A22	19XK91	F1			X	
19TB5	B2	A366A22	19XK2	A1	X			
19TB5	B2	A366A22	22A5P1	159		X		
19TB5	B3	A225A22	19XK91	D1			X	
19TB5	B3	A361A22	19XK91	A1	X			
19TB5	B3	A361A22	22A5P1	137		X		
19TB5	B4	A384A22	17A1P1	H	X	X		
19TB5	B4	A614A22	19XK92	B1			X	
19TB5	B5	A606A22	19XK92	F1			X	
19TB5	B6	A610A22	19XK92	D1			X	
19TB5	C2	A219A22	19XK91	F3			X	
19TB5	C3	A224A22	19XK91	D3			X	
19TB5	C5	A196B22	22A3P1	H	X	X		
19TB5	C5	A605A22	19XK92	F3			X	
19TB5	C6	A609A22	19XK92	D3			X	
19TB5	D1	A360A22	19XK91	A3	X			
19TB5	D1	A360A22	22A5P1	139		X		
19TB5	D2	A106A22	22A3P1	F			X	
19TB5	D3	A102A22	22A3P1	F			X	
19TB5	D3	A362A22	22A5P1	142		X		
19TB5	D3	A362A22	19XK91	B3	X			
19TB5	D4	A107A22	19XK91	B3			X	
19TB5	D4	A367A22	19XK92	A3	X			
19TB5	D4	A367A22	22A5P1	161		X		
19TB5	D5	A121A22	22A2P1	J			X	
19TB5	D6	A117A22	22A2P1	F			X	
19TB5	D7	A111A22	22A2P1	D			X	
19TB5	E1	A203A22	22A3P1	J	X	X		
19TB5	E2	A197B22	22A3P1	G	X	X		
19TB5	E3	A204A22	22A3P1	W	X	X		
19TB5	E4	A372A22	22A2P1	G		X		
19TB5	E4	A96A22	22A3P1	W			X	
19TB5	E6	A214A22	22A3P1	S	X	X		
19TB5	E7	A613A22	19XK92	B3			X	
19TB5	F	A529S20	19TB2	3			X	
19TB5	F4	A110A22	19XK91	A1			X	
19TB5	F6	A380B22	4A1J1	T	X	X		
19TB5	F7	A616A22	19XK92	A1			X	
19TB5	G	A529T20	17XK1	D1			X	
19TB5	G1	A108A22	19XK91	B1			X	
19TB5	G1	A374A22	19XK91	C1	X			
19TB5	G1	A374A22	22A5P1	143		X		
19TB5	G2	A385A22	17A1P1	G	X	X		
19TB5	G3	A227A22	19XK91	C1			X	
19TB5	G3	A368A22	19XK92	B1	X			
19TB5	G3	A368A22	22A5P1	162		X		
19TB5	G4	A386A22	17A1P1	X	X	X		
19TB5	G5	A608A22	19XK92	E1			X	
19TB5	G6	A612A22	19XK92	C1			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19TB5		A529U20	17XK1	C1				
19TB5	H1	A109A22	19XK91	A3			X	
19TB5	H2	A222A22	19XK91	E3			X	
19TB5	H3	A226A22	19XK91	C3			X	
19TB5	H4	A615A22	19XK92	A3			X	
19TB5	H5	A607A22	19XK92	E3			X	
19TB5	H6	A611A22	19XK92	C3			X	
19TB5	J	A529V20	17XK1	B1			X	
19TB5	J1	A369A22	19XK92	B3	X			
19TB5	J1	A369A22	22A5P1	164		X		
19TB5	J1	A98A22	22A3P1	<u>J</u>			X	
19TB5	J2	A104A22	22A3P1	<u>B</u>			X	
19TB5	J3	A100A22	22A3P1	E			X	
19TB5	J3	A375A22	19XK91	C3	X			
19TB5	J3	A375A22	22A5P1	145		X		
19TB5	J4	A113A22	22A2P1	G			X	
19TB5	J5	A119A22	22A2P1	E			X	
19TB5	J6	A115A22	22A2P1	P			X	
19TB5	K	A529W20	17XK1	A1			X	
19TB5	K1	A373A22	22A2P1	D	X	X		
19TB5	K2	A199B22	22A3P1	J	X	X		
19TB5	K3	A206A22	22A3P1	<u>D</u>	X	X		
19TB5	K4	A198B22	22A3P1	<u>K</u>	X	X		
19TB5	K5	A200B22	22A3P1	Y	X	X		
19TB5	K6	A380A22	22A2P1	<u>S</u>		X		
19TB6	A1	A179B22	19A6	<u>3</u>	X	X		
19TB6	A2	A332A22(BLU)	22A4P311	<u>N</u>	X			
19TB6	A2	TG338A22(BLU)	20P327	E		X		
19TB6	B1	A333A22	19A12P1	C		X		
19TB6	B2	A333A22	19A12P1	C	X			
19TB6	C2	A332C22	19A12P1	B	X	X		
19TB6	D1	A950A22	19A6	6	X	X		
19TB6	D2	A332D22N	GND		X			
19TB6	D2	A332A22N	GND			X		
19TB6	E1	A332A22(WHT)	22A4P311	U	X			
19TB6	E1	TG338A22(WHT)	20P327	E		X		
19TB6	F1	A951A22	19A6	7	X			
19TB6	F2	A952A22	19A6	4	X	X		
19TB6	G1	A278A22(WHT)	22A4P15	X		X		
19TB6	G1	A278A22(WHT)	22A4P312	<u>A</u>	X			
19TB6	G2	A223A22	19XK91	E1			X	
19TB6	G2	A27BA22(BLU)	22A4P15	<u>W</u>		X		
19TB6	G2	A278A22(BLU)	22A4P312	T	X			
19TB6	H1	A278B22(WHT)	19J1	<u>J</u>	X	X		
19TB6	H2	A278B22(BLU)	19J1	<u>h</u>	X	X		
19TB6	J1	A278C22(WHT)	19A5P2	D	X	X		
19TB6	J2	A278C22(BLU)	19A5P2	E	X	X		
19TB7	A1	A160B22(WHT)	19J250	J		X		
19TB7	A2	A233B22(BLU)	19A5P1	W		X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19TB7	A3	A161B22(WHT)	19J250	H		x		
19TB7	A4	A276B22(WHT)	22A4P13	X		x		
19TB7	A5	A277B22(WHT)	22A4P13	<u>D</u>	x			
19TB7	B1	A160C22(WHT)	19A5P1	<u>G</u>		x		
19TB7	B2	A233A22(BLU)	22A4P15	K		x		
19TB7	B3	A161C22(WHT)	19A5P1	J	x			
19TB7	B4	A276C22(WHT)	19A5P1	A		x		
19TB7	B5	A277C22(WHT)	19A5P1	T		x		
19TB7	C1	A160D22(WHT)	22A4P13	FF		x		
19TB7	C2	A233B22(WHT)	19A5P1	V		x		
19TB7	C3	A161D22(WHT)	22A4P13	HH		x		
19TB7	C4	A276A22(WHT)	17A1P1	<u>J</u>		x		
19TB7	C5	A277A22(WHT)	17A1P1	<u>S</u>		x		
19TB7	D2	A233A22(WHT)	22A4P15	L		x		
19TB7	E2	A233C22	19J1	<u>C</u>		x		
19TB7	F1	A160B22(BLU)	19J250	K		x		
19TB7	F3	A161B22(BLU)	19J250	G		x		
19TB7	F4	A276B22(BLU)	22A4P13	W		x		
19TB7	F5	A277B22(BLU)	22A4P13	<u>C</u>		x		
19TB7	G1	A160C22(BLU)	19A5P1	<u>H</u>		x		
19TB7	G3	A161C22(BLU)	19A5P1	E		x		
19TB7	G4	A276C22(BLU)	19A51	B		x		
19TB7	G5	A277C22(BLU)	19A5P1	<u>S</u>		x		
19TB7	H1	A160D22(BLU)	22A4P13	EE		x		
19TB7	H3	A161D22(BLU)	22A4P13	GG		x		
19TB7	H4	A276A22(BLU)	17A1P1	I		x		
19TB7	H5	A277A22(BLU)	17A1P1	<u>R</u>		x		
19XKB	A2	A148C22	19TB4	C16	x			
19XK101	A1	A137B22(BLU)	19A4P249	T	x			
19XK101	A2	A137A22(BLU)	22A4P311	<u>E</u>	x			
19XK101	A3	A313A22N	GND		x			
19XK101	B1	A291A22	19TB4	B2	x			
19XK101	B2	A289A22	19TB4	D18	x			
19XK101	X1	A290A22	19TB4	C2	x			
19XK101	X2	A314A22N	GND		x			
19XK102	X1	A243A22	22A4P311	AA	x			
19XK102	A2	A242C22	SPLICE		x			
19XK102	A3	A301A22N	GND		x			
19XK102	X1	A219H22	19TB4	H3	x			
19XK102	X2	A302A22N	GND		x			
19XK106	A1	A289B22	19TB4	J18	x			
19XK106	A2	A337A22	4A3J1	N	x			
19XK106	A3	A340A22	SPLICE		x			
19XK106	X1	A287A22	19TB4	B17	x			
19XK106	X2	A341A22N	GND		x			
19XK38	A1	A186A22	SPLICE		x			
19XK38	A2	A187K22	SPLICE		x			
19XK38	B1	A138C18	SPLICE		x			
19XK38	B2	A220F20	19K31	B2	x			

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19XK38	C1	A187P20	19TB4	J4	x			
19XK38	C2	A220H20	SPLICE		x			
19XK38	D2	A221C22	SPLICE		x			
19XK38	X1	A480C22	2XK17		x	x		
19XK38	X2	A223A22N	GND		x			
19XK38	D1	A145B22(WHT)	19P250	<u>S</u>	x			
19XK59		A126A22	19XK91	E2			x	
19XK59	A1	A231A22	22A2P1	S			x	
19XK59	A2	A380A22	19A1J5	<u>G</u>			x	
19XK59	A3	A230A22	22A3P1	<u>G</u>			x	
19XK59	B1	A229A22	22A2P1	R			x	
19XK59	B2	A379A22	19A1J5	M			x	
19XK59	B3	A228A22	22A3P1	M			x	
19XK59	C1	A354B22	22A2P1	<u>M</u>	x			
19XK59	C1	A604A22	19XK92	C2			x	
19XK59	C2	A247A22	22A4P311	T	x			
19XK59	C2	A189A22	19TB4	B			x	
19XK59	C3	A129A22	19XK91	C2			x	
19XK59	C3	A184B22	22A3P1	<u>E</u>	x			
19XK59	D1	A355B22	22A2P1	<u>N</u>	x			
19XK59	D1	A603A22	19XK92	D2			x	
19XK59	D2	A246A22	22A4P311	<u>A</u>	x			
19XK59	D2	A188A22	19TB4	C			x	
19XK59	D3	A127A22	19XK91	D2			x	
19XK59	D3	A185B22	22A3P1	A	x			
19XK59	E1	A602A22	19XK92	E2			x	
19XK59	E2	A187A22	19TB4	D			x	
19XK59	F1	A601A22	19XK92	F2			x	
19XK59	F2	A186A22	19TB4	E			x	
19XK59	F3	A125A22	19XK91	F2			x	
19XK59	X1	A228A22	19TB4	J6	x			
19XK59	X1	A840A22	19TB4	J			x	
19XK59	X2	A305A22N	GND		x			
19XK59	X2	A407A22N	GND				x	
19XK72	A1	A437A20	19A1J1	S			x	
19XK72	A2	A431F20	SPLICE				x	
19XK72	X1	A431G20	SPLICE				x	
19XK72	X2	A438A20N	GND				x	
19XK8	A3	A216B22	SPLICE		x			
19XK8	X1	A180C22	SPLICE		x			
19XK8	X1	A180D22	19XK87	C3	x			
19XK8	X2	A217A22N	GND		x			
19XK80	A1	A182A22	5A2J1	N	x			
19XK80	A1	A546A20	19TB3	8			x	
19XK80	A2	A187J20	SPLICE		x			
19XK80	A2	A528F20	19TB4	G			x	
19XK80	A3	A230A22	22A2P1	X	x			
19XK80	A3	A966A20	22A2P1	X			x	
19XK80	B1	A547A22	SPLICE				x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19XK80	B1	A41DC22	SPLICE		x			
19XK80	B2	A219E22	19TB4	D3	x	x		
19XK80	B2	A370F20	19TB4	F			x	
19XK80	B3	A352A22	22A2P1	Y	x			
19XK80	B3	A967A20	22A2P1	Y			x	
19XK80	C1	A103B22	19P250	CC	x			
19XK80	C1	A501A20	5A2J1	R	x		x	
19XK80	C2	A500B20	19TB4	B13			x	
19XK80	C2	A103B22	19P250	CC	x			
19XK80	C3	A502A20	4A3J1	R	x		x	
19XK80	D1	A211C22	SPLICE		x			
19XK80	D1	A547D22	SPLICE				x	
19XK80	D2	A540A22	22A3P1	H			x	
19XK80	D3	A969C20	SPLICE				x	
19XK80	E1	L245A22	5A2J1	X	x			
19XK80	E1	A503B20	3A1J1	Z			x	
19XK80	E2	L38K22	8TB8	E1	x			
19XK80	E2	A500G20	19TB4	A13			x	
19XK80	E3	L244A22	1A2J1	G	x			
19XK80	F1	A222B20	SPLICE		x			
19XK80	F1	A222C20	SPLICE		x			
19XK80	D1	A420M20	SPLICE				x	
19XK80	F2	A480D22	SPLICE		x			
19XK80	F2	A528G20	19TB4	H			x	
19XK80	X1	A210B22	22A3P1	C	x			
19XK80	X1	A982C20	SPLICE				x	
19XK80	X2	A225A22N	GND		x			
19XK80	X2	A984A20N	GND				x	
19XK80	O2	A219F22	19TB4	E3	x			
19XK81		A284C22	19J1	A	x			
19XK81	A1	A411A20	19TB3	7			x	
19XK81	A1	A431C20	SPLICE				x	
19XK81	A2	A315A22	19TB4	J7	x			
19XK81	A2	A430A20	4A3J1	C			x	
19XK81	A3	A340C22	SPLICE		x			
19XK81	B1	A364A20	19A1J4	V			x	
19XK81	B2	A284B22	SPLICE		x			
19XK81	B2	A399A20	4A3J1	F			x	
19XK81	B3	A192B22	22A3P1	A	x			
19XK81	B3	A369A20	SPLICE				x	
19XK81	C2	A215A20	19TB4	K			x	
19XK81	C3	A164A20	4A3J1	N			x	
19XK81	D1	A397A22	22A2P1	C	x			
19XK81	D2	A343D22	SPLICE		x			
19XK81	D3	A343F22	22A2P1	K	x			
19XK81	X1	A147D22	SPLICE		x			
19XK81	X1	A391B22	22A2P1	C			x	
19XK81	X2	A309A22N	GND		x			
19XK83	A1	A218A20	19TB4	K2			x	
19XK83	A1	A316A22	19TB4	G9	x			
19XK83	A2	A167C20	SPLICE				x	
19XK83	A2	A322C22	SPLICE		x			
19XK83	B1	A258B22	SPLICE		x			
19XK83	B1	A583C22	SPLICE				x	
19XK83	B2	A206A20N	GND				x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19XK83	B2	A323A22N	GND		x			
19XK83	X1	A528N20	19TB4	E4			x	
19XK83	X1	A187U22	19TB4	H5	x			
19XK83	X2	A324A22	17P2	6	x			
19XK83	X2	A584A22	17P2	6			x	
19XK84	A1	A155A20	5A2J1	S			x	
19XK84	A1	A165A20	5A2J1	S			x	
19XK84	A1	A181A22	5A2J1	S	x			
19XK84	A2	A167B20	SPLICE				x	
19XK84	A2	A322B22	SPLICE		x			
19XK84	B1	A167A20	SPLICE				x	
19XK84	B1	A322A22	SPLICE		x			
19XK84	B2	A198A20	19XK87	A3			x	
19XK84	B2	A198A22	19XK87	A3			x	
19XK84	B2	A326A22	19XK87	A3	x			
19XK84	B3	A200A20	22A4P313	<u>M</u>			x	
19XK84	B3	A280A22	22A4P313	<u>M</u>	x			
19XK84	C1	A254C22	SPLICE		x			
19XK84	C1	A572C22	SPLICE				x	
19XK84	C2	A205A20N	GND				x	
19XK84	C2	A312A22N	GND		x			
19XK84	X1	A528K20	19TB4	B4			x	
19XK84	X1	A187V22	19TB4	J5	x			
19XK84	X2	A321A22	17P1	6	x			
19XK84	X2	A573A22	17P1	6			x	
19XK85	A2	A239A22	19TB4	G1	x			
19XK85	A2	A427A20	19TB4	B			x	
19XK85	A3	A226D22	19TB4	E17	x			
19XK85	A3	A976D20	19TB3	9			x	
19XK85	B1	A238B22	SPLICE		x			
19XK85	B1	A428B20	19TB4	D			x	
19XK85	B2	A318A22	19TB4	C9	x			
19XK85	B2	A424A20	19TB4	F			x	
19XK85	B3	A349A22	19XK98	A2	x			
19XK85	B3	A385F20	SPLICE				x	
19XK85	X1	A238C22	SPLICE		x			
19XK85	X1	A428A20	19TB4	C			x	
19XK85	X2	A169A20	19K82P1	F			x	
19XK85	X2	A338A22	19K82P1	F	x			
19XK86	A	A421A20	19TB4	B			x	
19XK86	A1	A317A22	19TB4	K9	x			
19XK86	A2	A970C20	SPLICE				x	
19XK86	A2	A353C22	19TB4	K11	x			
19XK86	A2	TG157B22	20A1J09	H	x			
19XK86	A2	TG157C22	20A1J09	J	x			
19XK86	B1	A240B22	19TB4	J1	x			
19XK86	B1	A796A20	19TB4	F			x	
19XK86	B2	A231C22	SPLICE		x			
19XK86	B2	A969E20	SPLICE				x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
19XK86	X1	A170C20	SPLICE				X	
19XK86	X1	A339B22	SPLICE		x			
19XK86	X2	A171A20N	GND				X	
19XK86	X2	A304A22N	GND		x			
19XK87	A2	TG158A22	20A1J09	Y	x		X	
19XK87	A3	A198A20	19XK84	B2			X	
19XK87	A3	A198A22	19XK84	B2			X	
19XK87	A3	A326A22	19XK84	B2	x			
19XK87	B1	A170A20	SPLICE				X	
19XK87	B1	A339D22	SPLICE		x			
19XK87	B2	A353D22	SPLICE		x			
19XK87	B2	A969F20	SPLICE				X	
19XK87	B3	A287B22	19TB4	C17	x			
19XK87	C2	TG156A22	20A1J09	G	x			
19XK87	C3	A369C20	SPLICE				X	
19XK87	C3	A180D22	19XK8	X1	x			
19XK87	D1	A237A22	19TB4	D1	x			
19XK87	D1	A425A20	19TB4	D1			X	
19XK87	D2	TG155A22	20A1J09	F	x		X	
19XK87	D3	A148E22	19TB4	E16	x			
19XK87	D3	A431A20	SPLICE				X	
19XK87	X1	TG251E22	SPLICE				X	
19XK87	X1	A229A22	19TB4	H6	x			
19XK87	X1	A229B22	SPLICE		x			
19XK87	X2	A172A22N	GND				X	
19XK87	X2	A310A22N	GND		x			
19XK88	A2	A168B20	SPLICE				X	
19XK88	A2	A319A22	21K7P1	C	x			
19XK88	A3	A158F22	SPLICE		x			
19XK88	A3	A212A20	SPLICE				X	
19XK88	X1	TG600A22	19TB4	A8			X	
19XK88	X1	TG600A22	19TB4	B19	x			
19XK88	X2	A216A22N	GND				X	
19XK88	X2	A311A22N	GND		x			
19XK90	A1	L245A22 **	5A2J1	X	x		X	
19XK90	A2	L38K22	8TB8	E1	x		X	
19XK90	A3	L244A22 **	1A2J1	G	x		X	
19XK90	X1	A982D20	SPLICE				X	
19XK90	X2	A591A20N	GND				X	
19XK91	A1	A110A22	19TB5	F4			X	
19XK91	A1	A361A22	19TB5	B3	x			
19XK91	A2	A215B22	SPLICE		x			
19XK91	A2	A392A20	19K31	B3			X	
19XK91	A3	A109A22	19TB5	H1			X	
19XK91	A3	A360A22	19TB5	D1	x			
19XK91	B1	A108A22	19TB5	G1			X	
19XK91	B1	A363A22	19TB5	B1	x			
19XK91	B2	A207D22	SPLICE		x			
19XK91	B2	A395A20	19K31	A1			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19XK91	B3	A107A22	19TB5	D4			x	
19XK91	B3	A362A22	19TB5	D3	x			
19XK91	C1	A227A22	19TB5	G3			x	
19XK91	C1	A374A22	19TB5	G1	x			
19XK91	C2	A226L22	SPLICE		x			
19XK91	C2	A128A22	19XK59	C3			x	
19XK91	C3	A226A22	19TB5	H3			x	
19XK91	C3	A375A22	19TB5	J3	x			
19XK91	D1	A225A22	19TB5	B3			x	
19XK91	D2	A127A22	19XK59	D3			x	
19XK91	D3	A224A22	19TB5	C3			x	
19XK91	E1	A223A22	19TB6	G2			x	
19XK91	E2	A126A22	19XK59				x	
19XK91	E3	A222A22	19TB5	H2			x	
19XK91	F1	A221A22	19TB5	B2			x	
19XK91	F2	A125A22	19XK59	F3			x	
19XK91	F3	A219A22	19TB5	C2			x	
19XK91	X1	A103A22	8TB8	K4			x	
19XK91	X1	A365A22	8TB8	K4	x			
19XK91	X2	A105A22N	GND				x	
19XK91	X2	A364A22N	GND		x			
19XK92	A1	A366A22	19TB5	B2	x			
19XK92	A1	A616A22	19TB5	F7			x	
19XK92	A2	A215C22	SPLICE		x			
19XK92	A2	A392B20	19K31	B3			x	
19XK92	A3	A367A22	19TB5	D4	x			
19XK92	A3	A615A22	19TB5	H4			x	
19XK92	B1	A368A22	19TB5	G3	x			
19XK92	B1	A614A22	19TB5	B4			x	
19XK92	B2	A207E22	SPLICE		x			
19XK92	B2	A395B20	19K31	A1			x	
19XK92	B3	A369A22	19TB5	J1	x			
19XK92	B3	A613A22	19TB5	E7			x	
19XK92	C1	A612A22	19TB5	G6			x	
19XK92	C2	A604A22	19XK59	C1			x	
19XK92	C3	A611A22	19TB5	H6			x	
19XK92	D1	A610A22	19TB5	B6			x	
19XK92	D2	A603A22	19XK59	D1			x	
19XK92	D3	A609A22	19TB5	C6			x	
19XK92	E1	A608A22	19TB5	G5			x	
19XK92	E2	A602A22	19XK59	E1			x	
19XK92	E3	A607A22	19TB5	H5			x	
19XK92	F1	A606A22	19TB5	B5			x	
19XK92	F2	A601A22	19XK59	F1			x	
19XK92	F3	A605A22	19TB5	C5			x	
19XK92	X1	A371A22	8TB7	D2	x			
19XK92	X1	A617A22	8TB7	D2			x	
19XK92	X2	A618A22N	GND				x	
19XK92	X2	A387A22N	22A5P1	157	x	x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
19XK95	A2	TG337A22	20XK1	C2	x			
19XK95	A3	TG875A22	22A4P313	E	x			
19XK95	B1	A350A22	19XK98	B3	x			
19XK95	B2	A187N22	TO19TB4	H4	x			
19XK95	X1	TG521G22	SPLICE		x			
19XK95	X2	TG539A22N	GND		x			
19XK98	A1	A343C22	SPLICE		x			
19XK98	A2	A349A22	19XK85	B3	x			
19XK98	B2	A147F22	SPLICE		x			
19XK98	B3	A350A22	19XK95	B1	x			
19XK98	X1	A340B22	SPLICE		x			
19XK98	X2	A351A22N	GND		x			
2A1		P75A20	9CB3		x	x		
2A1	BUS	P50F8	2TB2	2	x	x		
2A1	ESS							
	DC	P35G8	2TB2	4	x	x		
	BUS							
2A1	ESS							
	DC	P35H8	2TB2	5	x	x		
	BUS							
2A1	NON	P50E8	2TB2	3	x	x		
	ESS							
	DC							
	BUS							
2A1J1	A	L1B22	10A1J1	N		x	x	
2A1J1	A	W45D22	SPLICE		x			
2A1J1	AA	Q13B18	1A1J2	J	x	x	x	
2A1J1	B	L10B22	10A1J1	J	x	x	x	
2A1J1	B	W57A22N	GND		x			
2A1J1	C	L13B22	4A2J1	X	x	x	x	
2A1J1	C	F2B22	5M1P1	A	x	x	x	
2A1J1	D	H60B22	3XK4	E1			x	
2A1J1	E	H66B22	10A1J1	C	x	x	x	
2A1J1	E	L192E22	8J5	110			x	
2A1J1	F	H49D22	10A1J1	E	x	x	x	
2A1J1	E	L215B22N	GND			x		
2A1J1	G	H49B22	10XK1	X1	x	x	x	
2A1J1	G	L195Y22	8TB4	B3	x	x		
2A1J1	H	L29B22	8TB4	A4	x	x	x	
2A1J1	H	W45C22	SPLICE		x			
2A1J1	J	L38B22	8TB5	F5	x	x	x	
2A1J1	K	L45B22	2TB2	7		x		
2A1J1	K	L45E22	2TB2	7	x			
2A1J1	L	L45D22	8DS14		x	x	x	
2A1J1	M	L46B22	SPLICE		x	x	x	
2A1J1	N	W1B22	8TB4	F4	x	x	x	
2A1J1	P	W19B22	8TB5	H7		x		
2A1J1	P	W19B22	8TB5	F6	x		x	
2A1J1	R	W32B22	1K1	X1	x	x	x	
2A1J1	S	W107B22	1A1J1	N	x	x	x	
2A1J1	T	W107E22	1J1	S	x	x	x	
2A1J1	V	W18B22	1Z3P1	H	x	x	x	
2A1J1	W	W45B22	SPLICE		x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
2A1J2	<u>A</u>	C2B22	SPLICE		x	x	x	
2A1J2	<u>BB</u>	P11B22	2A2J2	T	x	x		
2A1J2	<u>BB</u>	P11B22	SPLICE				x	
2A1J2	<u>CC</u>	D8B22	SPLICE		x	x	x	
2A1J2	<u>DD</u>	Q15B18	1A1J2	L	x	x	x	
2A1J2	<u>D</u>	F13B22	4Z2J1	B	x	x	x	
2A1J2	<u>E</u>	C12E20	1K4	12	x	x	x	
2A1J2	<u>F</u>	C12B20	1A1J1	F	x	x	x	
2A1J2	<u>G</u>	C5B20	4A3J1	P	x	x	x	
2A1J2	<u>H</u>	F13D22	4M1P1	X	x	x	x	
2A1J2	<u>JJ</u>	E3B22	1TB3	H1	x	x	x	
2A1J2	<u>KK</u>	E10B22	1TB3	K2	x	x	x	
2A1J2	<u>K</u>	P74A20	2XK18	A1	x	x		
2A1J2	<u>LL</u>	E42B22	1TB3	C3	x	x	x	
2A1J2	<u>M</u>	F15B22	1TB3	C2	x	x	x	
2A1J2	<u>N</u>	E24B22	1TB3	H2	x	x	x	
2A1J2	<u>P</u>	Q6B22	SPLICE		x	x	x	
2A1J2	<u>Q</u>	Q9B22	1A1J1	M	x	x	x	
2A1J2	<u>R</u>	V2B22	2A2J1	B			x	
2A1J2	<u>R</u>	V7B22	2A2J1	L	x	x		
2A1J2	<u>R</u>	Q1B22	1TB3	J1	x	x	x	
2A1J2	<u>S</u>	V1C22	2A2J1	A			x	
2A1J2	<u>S</u>	V6A22	3XK2	B2	x	x		
2A1J2	<u>S</u>	J1B22	1A1J1	K	x	x	x	
2A1J2	<u>T</u>	X58A22	3XK2	A1	x	x		
2A1J2	<u>T</u>	V1D22	3K5P1	F			x	
2A1J2	<u>T</u>	K1B22	4A2J1	J	x	x	x	
2A1J2	<u>U</u>	H1V20	1A1J2	A	x	x	x	
2A1J2	<u>W</u>	E12B22	1TB3	C1	x	x	x	
2A1J2	<u>Y</u>	P2B16	2TB1	A9	x	x		
2A1J2	<u>Y</u>	P2B16	SPLICE				x	
2A1J2	<u>Z</u>	P1B16	2K5	GEN	x	x	x	
2A1P1	<u>A</u>	L1A22	8CB1		x	x	x	
2A1P1	<u>B</u>	L10A22	8CB2		x	x	x	
2A1P1	<u>C</u>	L13A22	8CB3		x	x	x	
2A1P1	<u>C</u>	F2A22	5CB1		x	x	x-	
2A1P1	<u>D</u>	H60A22	10CB3			x		
2A1P1	<u>E</u>	H60A22	10CB3		x			
2A1P1	<u>E</u>	H66A22	10CB2		x	x	x	
2A1P1	<u>F</u>	H49C22	20CB1		x	x	x	
2A1P1	<u>F</u>	L215A22N	GND			x		
2A1P1	<u>G</u>	H49A22	10CB1		x	x	x	
2A1P1	<u>G</u>	L195Z22	8J111			x		
2A1P1	<u>H</u>	L29A22	8CB8		x	x	x	
2A1P1	<u>J</u>	L38A22	8CB5		x	x	x	
2A1P1	<u>K</u>	L45A22	8CB8	5	x	x		
2A1P1	<u>L</u>	L45C22	8CB8		x	x		
2A1P1	<u>M</u>	L46A22	8CB8	5	x	x	x	
2A1P1	<u>N</u>	W1A22	8CB7		x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
2A1P1	R S T V W AA A BB CC DD D E F H J J A K K L M N O P Q R R S S S T T T W Y Z A B C D E F G H J K P	W19A22	8CB7		x	x	x	
2A1P1		W32A22	8CB7		x	x	x	
2A1P1		W107A22	1CB4		x	x	x	
2A1P1		W107D22	1CB4		x	x	x	
2A1P1		W18A22	8CB10		x	x	x	
2A1P1		W45A22	8CB9		x	x	x	
2A1P2		Q13A18	1CB9		x	x	x	
2A1P2		C2A20	1CB2		x	x		
2A1P2		P11A22	2CB3		x	x	x	
2A1P2		D8A22	2CB5		x	x	x	
2A1P2		Q15A18	1CB12		x	x	x	
2A1P2		F13A22	1CB11		x	x	x	
2A1P2		C12D20	1CB1		x	x	x	
2A1P2		C12A20	1CB1		x	x	x	
2A1P2		F13C22	1CB11		x	x	x	
2A1P2		E3A22	1CB20		x	x	x	
2A1P2		H1A20	1CB8		x	x	x	
2A1P2		C2A22	1CB2				x	
2A1P2		E10A22	1CB19		x	x	x	
2A1P2		P74B20	2CR14		x	x		
2A1P2		E42A22	1CB18		x	x	x	
2A1P2		F15A22	1CB21		x	x	x	
2A1P2		E24A22	1CB17		x	x	x	
2A1P2		Q6A22	1CB3		x	x	x	
2A1P2		Q9A22	1CB4		x	x	x	
2A1P2		V2A22	3CB2				x	
2A1P2		V7A22	3CB1		x	x		
2A1P2		Q1A22	1CB5		x	x	x	
2A1P2		V6B22	3CB1		x	x		
2A1P2		V1A22	3CB1				x	
2A1P2		J1A22	1CB6		x	x	x	
2A1P2		X58B22	3CB2		x	x		
2A1P2		V1B22	3CB1				x	
2A1P2		K1A22	1CB7		x	x	x	
2A1P2		E12A22	1CB10		x	x	x	
2A1P2		P1A16	2CB4		x	x	x	
2A2J1		P1A16	2CB4		x	x	x	
2A1J1		V1C22	2A1J2	S			x	
2A2J1		V2B22	2A1J2	R			x	
2A2J1		V6D22	3XK6	C2			x	
2A2J1		L195K22 **	8TB4	F1	x	x		
2A2J1		P13B22	2TB1	K5	x	x		
2A2J1		P12B22	2TB1	J4	x	x	x	
2A2J1		X50A22	3VR1P1	U	x	x		
2A2J1		X51B22	1A2J1	J	x	x	x	
2A2J1		X53A22	3VR1P1	W	x	x		
2A2J1		X54B22	1A2J1	N	x	x		
2A2J1		V7B22	2A1J2	R	x	x		
2A2J1		V8B22	3XK8	X1			x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
2A2J1	R	V5B22	3S2	S1			X	
2A2J1	S	P9A22	2XK6	Y1			X	
2A2J1	T	P11B22	2A1J2	BB		X		
2A2J1	T	P11C22	SPLICE				X	
2A2J1	U	P7B22	1A2J1	R	X	X	X	
2A2J1	V	P18C22	2TB1	F5	X	X		
2A2J1	V	P12A22	2K4	X1			X	
2A2J1	W	P5B16	1A2J1	M	X	X	X	
2A2J1	X	P19B22	2TB1	K3	X	X		
2A2J1	X	P13B22	2XK7	B2			X	
2A2J1	Y	P8C22N	GND		X	X	X	
2A2J1	Z	P2C16	SPLICE				X	
2A2J1	Z	P2C16	2TB1	C	X			
2A2P1	A	V1E22	3S1	2			X	
2A2P1	B	V2C22	3S1	5			X	
2A2P1	D	L195L22	8J101			X		
2A2P1	E	P13A22	2S2	1	X	X		
2A2P1	F	P12A22	2S2	2	X	X		
2A2P1	G	X50B22	3S1	2	X	X		
2A2P1	H	X51A22	3S1	3	X	X		
2A2P1	J	X53B22	3S1	5	X	X		
2A2P1	K	X54A22	3S1	6	X	X		
2A2P1	L	V7C22	2S1	3	X	X		
2A2P1	P	V8A22	3S1	1			X	
2A2P1	R	V5A22	3S1	3			X	
2A2P1	S	P9B22	2S3	5	X	X	X	
2A2P1	T	P11C22	2S3	4	X	X		
2A2P1	T	P11D22	SPLICE				X	
2A2P1	U	P7C22	2S1	6	X	X		
2A2P1	U	P7C22	2S1	3			X	
2A2P1	V	P18D22	2S2	4		X		
2A2P1	W	P5C16	2S3	2	X	X	X	
2A2P1	X	P13A22	2S2	3			X	
2A2P1	X	P18D22	2S2	5	X			
2A2P1	X	P19A22	2S2	5	X	X		
2A2P1	Y	P8B22N	GND		X	X		
2A2P1	Z	P2D16	2S3	3	X	X	X	
2BT1P1		P42A00N	GND		X	X	X	
2BT1P1	+BAT	P63A00	2K2	BUS	X	X	X	
2CB1		D10A20	2R1	+(SHUNT)	X	X	X	
2CB1		D12A22	2M1P1	C	X	X	X	
2CB10		P20A22	2K5	IND	X	X		
2CB10		P44A22	2TB1	E1	X	X		
2CB10	5	A1221A22	16CR4	F3		X		
2CB2		D11A20	2R1	-(SHUNT)	X	X	X	
2CB2		D13A22	2M1P1	D	X	X	X	
2CB3		P11A22	2A1P2	BB	X	X	X	
2CB4		P1A16	2A1P2		X	X	X	
2CB4		P2A16	2A1P2		X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	F	
2CB5	BUS	D8A22	2A P2	CC	X	X	X	X
2CB6		P63B18	2K2	BUS	X	X		
2CB6		P65A20	2XK18	A2	X	X		
2CB6		P86A22	2XK3	A	X	X		
2CB6		P86B22	2XK3	X	X	X		
2CB7		P81A22	2K16	X	X	X	X	
2CB7		P45A22	2K1	12	X	X		
2CB8		P27A22	K3	A2		X		
2CB8		P22A22	2TB1	F3	X	X		
2CB8		P22B22	2XK15	A3	X	X		
2CB9	5	A1222A22	16CR4	C3		X		
2CB9		A1222A22	16TB1	C3		X		
2CB9		P39A20	2TB1	F2	X	X		
2CR14		P74A20	2XK18	A	X			
2CR14		P74B20	2A1 P2	K		X		
2J1		P21A18	2K1	X1	X	X	X	
2J1		P28A2	2K1	A1	X	X	X	
2J1		P28B4	2K1	A1	X	X	X	
2J1		K5B1N	1J4	D	X	X	X	
2J1		P29A2N	GND		X	X	X	
2J1		P29B4N	GND		X	X	X	
2K1	A1	P28A2	2J1	+	X	X	X	
2K1		P28B4	2J1	+	X	X	X	
2K1		P28C22	2K1	11	X			
2K1		P28C22	2K1	11		X		
2K1		P21A18	2J1	+	X	X	X	
2K1		P22A22	2XK7	B3			X	
2K1		P30A22	2TB1	3			X	
2K1		P30A22	2TB1	H6	X	X		
2K1		P28C22	2K1	A1	X			
2K1		P28C22	2K1	A2		X		
2K1	12	P45A22	2CB7		X	X		
2K1		P89A22	2XK8	C2	X	X		
2K1		P85B22	2TB1	B1		X		
2K10		P48A22	2K9	14	X	X		
2K10		P64A22	2K11	X2	X			
2K10		P59A22	3K1	11	X	X		
2K10		P64B22	2XK15	X2	X			
2K10		P58A22	2K2	APP	X	X		
2K10		P56A22	2XK3	A2	X	X		
2K10		P56B22	2XK8		X	X		
2K11	A1	P50A8	2TB2	3	X	X		
2K11		P50B8	2TB2	2	X	X		
2K11		P57A22	2K4	13	X	X		
2K11		P64A22N	GND			X		
2K11		P64A22N	2K10	X2	X			
2K12		A172A10	SPLICE		X	X		
2K12		P38A20	2CB9		X			
2K12		P55A22	2XK17	A1	X	X		
2K12		P60A22N	GND		X	X		
2K13		A389A4	19K7	A2	X	X		
2K13	X1	P53A22	2XK17	B2	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
2K13	X2	P62A22N	GND		x	x		
2K13	13	P54A22	2XK17	A2	x	x		
2K13	14	P80A22	2XK8	D1	x	x		
2K13	14	P80B22	2XK16	E1	x	x		
2K16	X1	P81A22	2CB7	BUS	x	x	x	
2K2	APP	P58A22	2K10	13	x	x		
2K2	A2	P63B18	2K2	X1			x	
2K2	A2	P66A12	21CB1				x	
2K2	BUS	P63A00	2BT1P1	+BAT	x	x	x	
2K2	BUS	P63B18	2CB6		x	x		
2K2	BUS	P63C16	19CB	26		x		
2K2	BUS	P63C16	BUS		x			
2K2	NEG	P6D22	2XK3	B2		x		
2K2	NEG	P6D22	2XK3	X2	x			
2K2	TR							
	BUS	P35A8	2TB2	4	x	x		
2K2	TR	P35B8	2TB2	5	x	x		
2K2	X1	P63B18	2K2	A2			x	
2K2	X2	P57A22	19K1P1	H			x	
2K20P1	A	P93A22N	GND			x		
2K20P1	B	P92A22	2K5	APP		x		
2K20P1	E	A158G22	SPLICE			x		
2K20P1	F	P16C22	2K5	SW		x		
2K20P1	K	P16B22	2K5	SW		x		
2K3	A2	P31A2ALUM	19CB4				x	
2K3	A2	P31B2ALUM	19CB5				x	
2K3	X1	P65A22	2TB1	2			x	
2K4	A2	H59A12	10K2	A2			x	
2K4	A2	P70A12	20CB2				x	
2K4	A2	P70A12	28VDC ESS				x	
			BUS					
2K4	X1	P12A22	2A2J1	V			x	
2K4	X1	P12C22	2TB1	K4	x	x		
2K4	X2	P67A22N	GND		x	x	x	
2K4	13	P57A22	2K11	X1	x	x		
2K4	14	P39F22	2TB1	G2	x	x		
2K5	APP	P92A22	2K20P1	B		x		
2K5	GEN	P1B16	2A1J2	Z	x	x	x	
2K5	GEN	P1C1	2R1	-(SHUNT)		x		
2K5	GND	P36B22N	GND				x	
2K5	IND	P20A22	2CB10		x	x		
2K5	IND	P20A22	2XK7	X1			x	
2K5	SW	P16A16	2XK6	B2	x	x	x	
2K5	SW	P16B22	2K20P1	K		x		
2K5	SW	P16C20	2K20P1	F		x		
2K9	A2	V1A8	3CB7		x	x		
2K9	X1	P19F22	2TB1	J3	x	x		
2K9	X2	P61A22N	GND		x	x		
2K9	13	P47A22	2XK16	A2	x	x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
2K9	14	P4822	2K10	X1	x	x		
2M1P1	A	D8C22	SPLICE		x	x	x	
2M1P1	B	D9B22N	SPLICE		x	x		
2M1P1	C	D12A22	2CB1		x	x	x	
2M1P1	D	D13A22	2CB2		x	x	x	
2M1P1	E	L206A22	8XA4	31			x	
2M1P1	E	L206B22 **	8TB7	J4	x	x		
2M1P1	F	L170L22	8TB3	A2	x	x	x	
2M1P1	G	D8D22	SPLICE		x	x	x	
2M1P1	H	D9C22N	SPLICE		x	x	x	
2R1	-	P1C1	2K5	GEN		x		
2R1	(SHUNT) +	D10A20	2CB1		x	x	x	
2R1	(SHUNT) -	D11A20	2CB2		x	x	x	
2R1	(SHUNT) +	P26B1	1J4	A	x	x	x	
2R1	(SHUNT) SHUNT	P26D4	1J4	E	x	x	x	
2S1	2	P8A22N	GND		x	x		
2S1	2	V8A22	GND		x	x		
2S1	3	P7C22	2A2P1	U			x	
2S1	3	V7C22	2A2P1	L	x	x		
2S1	5	P8A22N	GND		x	x		
2S1	6	P7C22	2A2P1	U	x	x		
2S2	1	P11E22	SPLICE				x	
2S2	1	P13A22	2A2P1	E	x	x		
2S2	2	P12A22	2A2P1	F	x	x		
2S2	3	P13A22	2A2P1	X			x	
2S2	4	P18D22	2A2P1	V		x		
2S2	5	P18D22	2A2P1	X	x			
2S2	5	P19A22	2A2P1	X	x	x		
2S3	2	P5C16	2A2P1	W	x	x	x	
2S3	3	P2D16	2A2P1	Z	x	x	x	
2S3	4	P11C22	2A2P1	T	x	x		
2S3	4	P11F22	SPLICE				x	
2S3	5	P9B22	2A2P1	S		x	x	
2S4	1	P6C22	1A2P1	A	x	x	x	
2S4	10	X54C22	1A2P1	N	x	x		
2S4	11	X55A22	1A2P1	P	x	x		
2S4	2	P7A22	1A2P1	R		x	x	
2S4	4	P4B16	1A2P1	R	x	x	x	
2S4	5	P5A16	1A2P1	R	x	x	x	
2S4	7	X51C22	1A2P1	M	x	x		
2S4	8	X52A22	1A2P1	K	x	x		
2TB1	A	X38C22	3VR1P1	M	x	x		
2TB1	A1	P85A22	2XK15	E1	x	x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
2TB1	A2	P39B22	2XK15	X1	x			
2TB1	A2	P39B22	2XK14	X1		x		
2TB1	A4	P24B22	2XK15	C3	x			
2TB1	A4	P24D22	2TB1	H3	x	x		
2TB1	A5	P18A22	2XK15	B2	x	x		
2TB1	A7	P17D22N	2XK14	A2	x			
2TB1	A7	P17D22N	2XK14	D3	x	x		
2TB1	A9	P2B16	2A1J2	Y	x	x		
2TB1	B1	P85B22	2XK8	C2	x			
2TB1	B1	P85B22	2K1	14		x		
2TB1	B2	P39C22	2XK17	C2		x		
2TB1	B2	P39C22	2XK17	E2	x			
2TB1	B4	P24A22	2XK16	D3	x	x		
2TB1	B5	P18B22	2XK16	C1	x	x		
2TB1	B7	P17E22N	2XK15	D2	x	x		
2TB1	B8	X38B22	3G1P1	C	x	x		
2TB1	P9	P2C16	2A2J1	Z		x		
2TB1	B9	P2E16	2VR1P1	B	x			
2TB1	C	P2C16	2A2J1	Z	x			
2TB1	C	X38A22	3T3P1	B	x	x		
2TB1	C1	P85C22	2XK14	E1	x	x		
2TB1	C2	P39D22	2XK17	E1	x			
2TB1	C2	P39D22	2XK14	B2		x		
2TB1	C3	P19C22	2XK16	C2	x	x		
2TB1	C5	P13E22	2XK15	A2	x	x		
2TB1	C9	P2E16	2VR1P1	B		x		
2TB1	D	X37A22	3T3P1	A	x	x		
2TB1	D1	P44B22	2XK14	X1	x	x		
2TB1	D2	P39E22	2XK16	E2	x	x		
2TB1	D4	P12E22	2XK14	C1	x	x		
2TB1	D5	P13D22	2XK14	C2	x	x		
2TB1	D7	P17K20N	GND		x	x		
2TB1	E1	P44A22	2CB10		x	x		
2TB1	E4	P12D22	2XK16	B2	x	x		
2TB1	E5	P13C22	2XK16	B1	x	x		
2TB1	E6	P83C22	2XK17	B1	x	x		
2TB1	F	X39A22	3T3P1	C	x	x		
2TB1	F2	P39A20	2CB9		x	x		
2TB1	F3	P22A22	2CB8		x	x		
2TB1	F4	P37C22	2XK14	B3	x	x		
2TB1	F5	P18C22	2A2J1	V	x	x		
2TB1	F7	P17F22N	2XK14	X2	x	x		
2TB1	G	X39C22	3VR1P1	N	x	x		
2TB1	G1	P82B22	2XK14	F2	x	x		
2TB1	G2	P39F22	2K4	14	x	x		
2TB1	G3	P22C22	2XK14	F	x	x		
2TB1	G4	P23A22	2XK16	F3	x	x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
2TB1	G7	P17G22N	2XK15	X2		X		
2TB1	H	X39B22	3G1P1	E	X	X		
2TB1	H1	P82A22	2XK14	A2	X	X		
2TB1	H2	P39G22	2XK8	D2	X	X		
2TB1	H3	P24D22	2TB1	A4	X	X		
2TB1	H4	P43A22	2XK17	C1	X	X		
2TB1	H6	P30A22	2K1	X2	X	X		
2TB1	H7	P17H22N	2XK16	X2	X	X		
2TB1	J	X37C22	3VR1P1	L	X	X		
2TB1	J1	P44F22	2XK14	FC1		X		
2TB1	J4	P12B22	2A2J1	F	X	X	X	
2TB1	J3	P19F22	2K9	X1	X	X		
2TB1	J6	P83B22	2XK8	C1	X	X		
2TB1	J7	P17J22N	2XK17	X2	X	X		
2TB1	K	X37B22	3G1P1	A	X	X		
2TB1	K1	P44G22	2XK14	E2	X	X		
2TB1	K3	P19B22	2A23J1	X	X	X		
2TB1	K4	P12C22	2K4	X1	X	X		
2TB1	K5	P13B22	2A2J1	E	X	X		
2TB1	K6	P83A22	2XK15	E2	X	X		
2TB1	1	A64A22	19K1P1	B			X	
2TB1	2	P65A22	2K3	X1			X	
2TB1	3	P30A22	2K1	X2			X	
2TB1	4	P17C22N	2XK6	X2			X	
2TB1	4	P17A22N	2XK7	X2			X	
2TB1	5	P17D22N	2XK7	A2			X	
2TB1	5	P17E20N	GND				X	
2TB2	1	A344A20	3A1J1	F		X		
2TB2	G	L28A12	8CB4				X	
2TB2	G	L28A12	8DS6	E			X	
2TB2	2	A344A20	3A1J1	F	X			
2TB2	2	P50B8	2K11	A1	X	X		
2TB2	2	P50F8	2A1	BUS	X	X		
2TB2	3	P50A8	2K11	A1	X	X		
2TB2	3	P50E8	2A1	NON				
				ESS	X	X		
				DC BUS				
2TB2	4	A345A16	3A1J1	Z	X		X	
2TB2	4	P35A8	2K2	TR BUS	X	X		
2TB2	4	P35G8	2A1	ESS DC	X	X		
				BUS				
2TB2	5	A346A16	3A1J1	Y	X	X		
2TB2	5	P35B8	2K2	TR	X			
2TB2	5	P35H8	2A1	ESS DC	X	X		
				BUS				
2TB2	6	L28A12	8CB4		X	X		
2TB2	6	L28B12	8DS6	3	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
2TB2	7	L45B22	2A1J1	K		X		
2TB2	7	L45B22	8DS13				X	
2TB2	7	L45E22	SPLICE			X		
2TB2	7	L45E22	2A1J1	K	X			
2VR1P1	A	P14A16	2XK6	A3	X	X	X	
2VR1P1	B	P2E16	SPLICE				X	
2VR1P1	B	P2E16	2TB1	B9	X			
2VR1P1	B	P2E16	2TB1	C9		X		
2VR1P1	C	K2C22	1K3	X1	X	X	X	
2VR1P1	D	P15A22	2XK6	X1	X	X	X	
2VR1P1	E	P36A22N	GND		X	X	X	
2XK14	A1	P40A22	2XK16	D2	X	X		
2XK14	A2	P17D22N	2TB1	A7	X			
2XK14	A2	P82A22	2TB1	H1	X	X		
2XK14	A2	W91C22	SPLICE		X	X		
2XK14	A3	P41A22	2XK15	B3	X	X		
2XK14	B1	P43A22	2XK17	E1	X			
2XK14	B2	P23A22	2XK16	A3	X			
2XK14	B2	P39D22	2TB1	C2	X	X		
2XK14	B3	P37C22	2TB1	F4	X	X		
2XK14	C1	P12E22	2TB1	D4	X	X		
2XK14	C2	P13D22	2TB1	D5	X	X		
2XK14	D2	W91C22	8A3P1	S	X	X		
2XK14	D3	P17D22N	2TB1	A7	X	X		
2XK14	E1	P85C22	2TB1	C1	X	X		
2XK14	E2	P44G22	2TB1	K1	X	X		
2XK14	F1	P44F22	2TB1	J1	X	X		
2XK14	F2	P82B22	2TB1	G1	X	X		
2XK14	F3	P22C22	2TB1	G3	X	X		
2XK14	X1	P39B22	2TB1	A2		X		
2XK14	X1	P44B22	2TB1	D1	X	X		
2XK14	X2	P17F22N	2TB1	F7	X	X		
2XK15	A2	P13E22	2TB1	C5	X	X		
2XK15	A3	P22B22	2CB8		X	X		
2XK15	B2	P18A22	2TB1	A5	X	X		
2XK15	B3	P41A22	2XK14	A3	X	X		
2XK15	C3	P24B22	2TB1	A4	X			
2XK15	D2	P17E22N	2TB1	B7	X	X		
2XK15	D3	W133C22	8A2P1	U	X	X		
2XK15	D3	W133C22	8A3P1	K	X			
2XK15	E1	P85A22	2TB1	A1	X	X		
2XK15	E2	P83A22	2TB1	K6	X	X		
2XK15	E3	P84A22	2XK16	F2	X	X		
2XK15	X1	P39B22	2TB1	A2	X			
2XK15	C2	P46A22	2XK8					
2XK15	X2	P17G22N	2TB1	G7		X		
2XK15	X2	P64B22	2K10	X2	X			
2XK16	A2	P47A22	2K9	13	X	X		
2XK16	A3	P23A22	2XK14	B2	X			
2XK16	A3	P23A22	2TB1	G4		X		
2XK16	B1	P13C22	2TB1	E5	X	X		
2XK16	B2	P12D22	2TB1	E4	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
2XK16	C1	P18B22	2TB1	B5	X	X		
2XK16	C2	P19C22	2TB1	C3	X	X		
2XK16	D2	P40A22	2XK14	A1	X	X		
2XK16	D3	P24A22	2TB1	B4	X	X		
2XK16	E1	P80B22	2K13	14	X	X		
2XK16	E2	P39E22	2TB1	D2	X	X		
2XK16	F1	A224A20	19TB4	A15	X			
2XK16	F1	A22K20	19TB4	D20		X		
2XK16	F2	P84A22	2XK15	E3	X	X		
2XK16	X2	P17H22N	2TB1	H7	X	X		
2XK17		A480C22	19XK38	X1	X	X		
2XK17	A1	P55A22	2K12	X1	X	X		
2XK17	A2	P54A22	2K13	13	X	X		
2XK17	B1	P83C22	2TB1	E6	X	X		
2XK17	B2	P53A22	2K13	X1	X	X		
2XK17	C1	P43A22	2TB1	H4	X	X		
2XK17	C2	P39C22	2TB1	B2	X	X		
2XK17	E1	P39D22	2TB1	C2	X			
2XK17	X1	A480E22	22A2P1	R		X		
2XK17	X1	A480E22	SPLICE		X			
2XK17	X2	P17J22N	2TB1	J7	X	X		
2XK18	A1	P74A20	2A1J2	K		X		
2XK18	A2	P65A20	2CB6		X	X		
2XK18	A1	P74A20	2CR14		X			
2XK18	X1	C260A22	9TB1	17D		X		
2XK18	X2	C261A22N	GND		X	X		
2XK18		C260A22	19TB1	17C	X			
2XK3	A1	P86A22	2CB6		X	X		
2XK3	A2	P56A22	2K10	14	X	X		
2XK3	B1	P87A22N	GND		X	X		
2XK3	B2	P6D22	2K2	NEG	X	X		
2XK3	X1	P86B22	2CB6		X	X		
2XK3	X2	P6B22	1A2J1	A	X	X		
2XK3	X2	P6D22	2K2	NEG	X			
2XK3	X2	P6D22	1TB3	C9			X	
2XK6	A2	P25B16	1J1	C	X	X	X	
2XK6	A3	P14A16	2VR1P1	A	X	X	X	
2XK6	B2	P16A16	2K5	SW	X	X	X	
2XK6	B3	P4A16	1A2J1	R	X	X	X	
2XK6	X1	P15A22	2VR1P1	D	X	X	X	
2XK6	X2	P17C22N	GND		X	X		
2XK6	X2	P17C22N	2TB1	4			X	
2XK6	Y1	P9A22	2A2J1	S			X	
2XK6	Y1	P9A22	2A2J1	S	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
2XK6	Y2	P17B22N	2TB1	4	x	x	x	
2XK7	A2	P17D22N	2TB1	5			x	
2XK7	A3	W91C22	SPLICE				x	
2XK7	B1	P11G22	SPLICE				x	
2XK7	B2	P13B22	2A2J1	X			x	
2XK7	B3	P22A22	2K1	X1			x	
2XK7	X1	P20A22	2K5	IND			x	
2XK7	X2	P17A22N	2TB1	4			x	
2XK8		P46A22	2XK15	C2	x			
2XK8	A2	P19E22	2TB1	H3	x			
2XK8	C1	P83B22	2TB1	J6	x	x		
2XK8	C2	P89A22	2K1	13	x	x		
2XK8	D1	P80A22	2K13	14	x	x		
2XK8	D2	P39G22	2TB1	H2	x	x		
2XK8	X1	P56B22	2K10	14	x	x		
2XK8	X2	P6A22	2X2	NEG	x	x		
2X2	NEG	P6A22	2XK8	X2	x	x		
20A1J06	P	TG14A16(WHT)	20P328	C			x	
20A1J09	A	TG153A22(WHT)	20A1P03	X	x	x		
20A1J09	B	TG153A22(BLU)	20A1P03	X	x	x	x	
20A1J09	E	TG24A22	END CAP		x	x	x	
20A1J09	F	TG1A22	19TB4	H20		x		
20A1J09	F	TG1A22	20P325	C	x		x	
20A1J09	F	A458C22	22A5P1	207		x		
20A1J09	F	TG155A22	19XK87	D2	x		x	
20A1J09	F	TG2A22	20P325	D	x		x	
20A1J09	F	TG2A22	20A2P03	C		x		
20A1J09	G	TG156A22	19XK87	C2	x			
20A1J09	G	TG156A22	22A5P1	204		x		
20A1J09	G	TG3A22	20A2P03	D		x		
20A1J09	G	TG3A22	20P325	E	x		x	
20A1J09	H	A353E22	SPLICE			x		
20A1J09	H	TG157B22	19XK86	A2	x			
20A1J09	H	TG157B22	SPLICE		x		x	
20A1J09	H	TG160A22(WHT)	20A7P03	R		x		
20A1J09	H	TG160A22(WHT)	20P324	M	x		x	
20A1J09	J	A35F22	19TB4	J11		x		
20A1J09	J	TG157C22	SPLICE		x		x	
20A1J09	J	TG157C22	19XK86	A2	x			
20A1J09	J	TG160A22(BLU)	20A7P03	E		x		
20A1J09	J	TG160A22(BLU)	20P324	L	x		x	
20A1J09	K	TG142A22	20A4P02	HH		x		
20A1J09	L	TG143A22	20A4P02	GG		x		
20A1J09	M	TG144A22	20A4P02	JJ		x		
20A1J09	N	A1015B22	8TB8	B4		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A1J09	N	A1015B22	SPLICE			x		
20A1J09	P	TG163A22(BLU)	16TB1	J7		x		
20A1J09	P	TG163A22(BLU)	20P328	S	x		x	
20A1J09	R	A1014B22	8TB8	D5		x		
20A1J09	R	A1014B22	SPLICE			x		
20A1J09	T	A1013A22	20A1J53	DD		x		
20A1J09	V	TG163A22(WHT)	16TB1	K6		x		
20A1J09	V	TG163A22(WHT)	20P328	R	x		x	
20A1J09	W	TG147A22	20A1P05	N	x	x	x	
20A1J09	X	TG162A22	20A7P01	P		x		
20A1J09	X	TG162A22	20P325	BB	x		x	
20A1J09	Y	TG158A22	19XK87	A2	x		x	
20A1J09	Y	TG158A22	22A5P1	198		x		
20A1J09	Z	A231D22	SPLICE			x		
20A1J09	Z	TG159A22	SPLICE		x			
20A1J53	A	A1001A22	20A1J66	F		x		
20A1J53	AA	A1015A22	SPLICE			x		
20A1J53	A	A1037A22	20A4P02	LL		x		
20A1J53	B	A1002A22	20A1J66	M		x		
20A1J53	B	A1026A22(BLU)	16A2P1	J		x		
20A1J53	C	A1003A22	20A1J66	L		x		
20A1J53	CC	A1027A22(BLU)	16A1P2	30		x		
20A1J53	C	A1039A22	20A4P02	N		x		
20A1J53	D	A1004A22	20A1J66	K		x		
20A1J53	DD	A1013A22	20A1J09	T		x		
20A1J53	D	A1017A22(WHT)	5A1P1	W		x		
20A1J53	EE	A1038A22	20A4P02	U		x		
20A1J53	E	A1031A20N	GND			x		
20A1J53	F	A1036A22	20A4P02	KK		x		
20A1J53	FF	A1020A22N	GND			x		
20A1J53	F	A1029A20N	GND			x		
20A1J53	GG	TG513E22	SPLICE			x		
20A1J53	G	A1028C20	SPLICE			x		
20A1J53	H	A1018A22	5A1P1	P		x		
20A1J53	H	A1027A22(WHT)	16A1P2	28		x		
20A1J53	H	A1021A22	16TB1	K3		x		
20A1J53	I	W141A22	8A2P1	A		x		
20A1J53	J	A1022A22(WHT)	20A2P05	Q		x		
20A1J53	K	A1030A20N	GND			x		
20A1J53	L	A1028E20	SPLICE			x		
20A1J53	M	A1028D20	SPLICE			x		
20A1J53	M	A1102C22	SPLICE			x		
20A1J53	N	A1012A22	20A1J66	A		x		
20A1J53	P	A1022A22(BLU)	20A2P05	R		x		
20A1J53	P	A1016A22	5A1P1	E		x		
20A1J53	R	A1025A22(WHT)	16TB1	B5		x		
20A1J53	R	A1041A22	20A4P02	W		x		
20A1J53	R	A1025A22(BLU)	16TB1	J4		x		
20A1J53	S	A1010A22	20A1J66	C		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A1J53	<u>S</u>	A1026A22(WHT)	16A2P1	K		x		
20A1J53	<u>T</u>	A1011A22	20A1J66	B		x		
20A1J53	<u>I</u>	A1023A22	20A7P02	K		x		
20A1J53	<u>U</u>	A1005A22	20A1J66	J		x		
20A1J53	<u>U</u>	A1040A22	20A4P02	<u>M</u>		x		
20A1J53	<u>V</u>	A1006A22	20A1J66	H		x		
20A1J53	<u>V</u>	A1017A22(BLU)	5A1P1	<u>A</u>		x		
20A1J53	<u>W</u>	A1007A22	20A1J66	P		x		
20A1J53	X	A1008A22	20A1J66	S		x		
20A1J53	<u>X</u>	A1024A22(WHT)	20A7P01	V		x		
20A1J53	<u>Y</u>	A1009A22	20A1J66	D		x		
20A1J53	<u>Y</u>	A1024A22(BLU)	20A7P01	W		x		
20A1J53	<u>Z</u>	A1014A22	SPLICE			x		
20A1J66	<u>A</u>	A1012A22	20A1J53	<u>N</u>		x		
20A1J66	B	A1011A22	20A1J53	T		x		
20A1J66	C	A1010A22	20A1J53	S		x		
20A1J66	D	A1009A22	20A1J53	Y		x		
20A1J66	F	A1001A22	20A1J53	A		x		
20A1J66	H	A1006A22	20A1J53	V		x		
20A1J66	J	A1005A22	20A1J53	U		x		
20A1J66	K	A1004A22	20A1J53	D		x		
20A1J66	L	A1003A22	20A1J53	C		x		
20A1J66	M	A1002A22	20A1J53	B		x		
20A1J66	P	A1007A22	20A1J53	W		x		
20A1J66	S	A1008A22	20A1J53	X		x		
20A1P01	A	TG53A22	20P327	T	x	x	x	
20A1P01	A	TG568A20(BLU)	20A1P06	HH		x		
20A1P01	AA	TG72A22(WHT)	SPLICE		x	x	x	
20A1P01	B	TG62A22	20A2P03	E		x		
20A1P01	B	TG62A22	20P328	X	x		x	
20A1P01	BB	TG58A22	20P327	N	x	x	x	
20A1P01	CC	TG87A22	20A16P01	R	x	x	x	
20A1P01	<u>C</u>	TG79A22	20A5P02	K		x		
20A1P01	<u>C</u>	TG79A22	20P326	P	x		x	
20A1P01	DD	TG59A22	20P327	S	x	x	x	
20A1P01	EE	TG60A22	20P327	X	x	x	x	
20A1P01	FF	TG74A22	20A2P02	T		x		
20A1P01	FF	TG74A22	20P325	<u>S</u>	x		x	
20A1P01	<u>E</u>	TG84A22(BLU)	20A16P01	U	x	x	x	
20A1P01	GG	TG17A22	END CAP		x	x	x	
20A1P01	H	TG64A22	20P328	<u>B</u>	x		x	
20A1P01	H	TG64A22	20A2P03	GG		x		
20A1P01	HH	TG61A22	20P327	Y	x	x	x	
20A1P01	<u>I</u>	TG76A22	20A7P02	<u>P</u>		x		
20A1P01	<u>I</u>	TG76A22	20P324	<u>D</u>	x		x	
20A1P01	J	TG77A20	20A7P02	W		x		
20A1P01	<u>J</u>	TG77A20	20P324	<u>E</u>	x		x	
20A1P01	K	TG66A22	20P325	<u>Q</u>	x		x	
20A1P01	K	TG66A22	20A2P02	V		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A1P01	<u>K</u>	TG78A22	20A7P02	<u>Q</u>		x		
20A1P01	<u>K</u>	TG78A22	20P324	<u>F</u>	x		x	
20A1P01	<u>M</u>	TG69A22(BLU)	20A2P02	<u>M</u>		x		
20A1P01	<u>m</u>	TG69A22(BLU)	20P325	P	x		x	
20A1P01	<u>N</u>	TG69A22(WHT)	20A2P02	L		x		
20A1P01	<u>N</u>	TG69A22(WHT)	20P325	R	x		x	
20A1P01	<u>O</u>	TG80A22	SPLICE		x	x	x	
20A1P01	<u>R</u>	TG81A22	SPLICE		x	x	x	
20A1P01	<u>S</u>	TG75A22	20A7P02	<u>S</u>		x		
20A1P01	<u>S</u>	TG75A22	20P324	<u>C</u>	x		x	
20A1P01	<u>S</u>	TG82A22	SPLICE		x	x	x	
20A1P01	T	TG67A22(BLU)	20A2P02	K		x		
20A1P01	T	TG67A22(BLU)	20P325	M	x		x	
20A1P01	<u>I</u>	TG83A22	SPLICE		x	x	x	
20A1P01	<u>U</u>	TG67A22(WHT)	20A2P02	J		x		
20A1P01	U	TG67A22(WHT)	20P325	N	x		x	
20A1P01	V	TG54A22	20P327	P	x	x	x	
20A1P01	<u>V</u>	TG57A22	20P327	V	x	x	x	
20A1P01	<u>W</u>	TG55A22	20P327	U	x	x	x	
20A1P01	<u>W</u>	TG71A22	20A2P02	U		x		
20A1P01	<u>W</u>	TG71A22	20P325	<u>R</u>	x		x	
20A1P01	<u>X</u>	TG84A22(ORN)	20A16P01	T	x	x	x	
20A1P01	<u>Y</u>	TG84A22(WHT)	20A16P01	S	x	x	x	
20A1P01	<u>Z</u>	TG72A22(BLU)	SPLICE		x	x	x	
20A1P02	A	TG829A22	20J332	P	x	x	x	
20A1P02	B	TG830A22	20J332	N	x	x	x	
20A1P02	C	TG825A22	20J332	U	x	x	x	
20A1P02	D	TG834A22	20J332	F	x	x	x	
20A1P02	DD	TG109A22(WHT)	20A1P04	J		x		
20A1P02	G	TG833A22	20J332	G	x	x	x	
20A1P02	H	TG832A22	20J332	H	x	x	x	
20A1P02	J	TG831A22	20J332	J	x	x	x	
20A1P02	M	TG26A22	END CAP		x	x	x	
20A1P02	S	TG827A22	20J332	S	x	x	x	
20A1P02	P	TG826A22	20J332	T	x	x	x	
20A1P02	R	TG828A22	20J332	R	x	x	x	
20A1P02	V	TG824A22	20J332	V	x	x	x	
20A1P03	A	TG153A22(WHT)	20A1J09	<u>A</u>	x	x	x	
20A1P03	B	TG167A20(WHT)	20A7P01	B		x		
20A1P03	B	TG167A20(WHT)	20P324	<u>X</u>	x		x	
20A1P03	C	TG167A20(BLU)	20A7P01	D		x		
20A1P03	C	TG167A20(BLU)	20P324	<u>W</u>	x		x	
20A1P03	<u>C</u>	TG180A22(BLU)	20A2P03	<u>P</u>		x		
20A1P03	<u>C</u>	TG180A22(BLU)	20P328	S	x		x	
20A1P03	<u>D</u>	TG178A22(WHT)	20A2P03	<u>K</u>		x		
20A1P03	<u>D</u>	TG178A22(WHT)	20P328	P	x		x	
20A1P03	E	TG171A22	20A4P02	<u>J</u>	x	x	x	
20A1P03	F	TG172A20	10A7P03	A		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A1P03	F	TG172A20	20P324	<u>U</u>			X	
20A1P03	G	TG173A22	20P326	<u>V</u>	X		X	
20A1P03	G	TG173A22	20A5P02	<u>C</u>		X		
20A1P03	H	TG174A20(BLU)	20A2P03	<u>I</u>		X		
20A1P03	H	TG174A20(BLU)	20P328	<u>U</u>	X		X	
20A1P03	J	TG174A20(WHT)	20A2P03	<u>H</u>		X		
20A1P03	<u>J</u>	TG174A20(WHT)	20P328	V	X		X	
20A1P03	K	TG174A20(ORN)	20A2P03	<u>G</u>		X		
20A1P03	K	TG174A20(ORN)	20P328	W	X		X	
20A1P03	L	TG178A22(BLU)	20A2P03	<u>M</u>		X		
20A1P03	L	TG178A22(BLU)	20P328	N	X		X	
20A1P03	<u>N</u>	TG180A22(ORN)	20A2P03	<u>Q</u>		X		
20A1P03	<u>N</u>	TG180A22(ORN)	20P328	R	X		X	
20A1P03	<u>P</u>	TG180A22(WHT)	20A2P03	<u>N</u>		X		
20A1P03	<u>P</u>	TG180A22(WHT)	20P328	T	X		X	
20A1P03	X	TG153A22(BLU)	20A1J09	<u>B</u>	X	X	X	
20A1P03	Z	TG167A20	20A7P01	<u>C</u>		X		
20A1P03	Z	TG167A20(ORN)	20P324	<u>Y</u>	X		X	
20A1P04	<u>A</u>	TG107A22(WHT)	20P325	<u>V</u>	X		X	
20A1P04	<u>A</u>	TG107A22(WHT)	20A2P02	R		X		
20A1P04	BB	TG591D22(WHT)	3TB2	D2		X		
20A1P04	BB	TG591F22(WHT)	SPLICE		X		X	
20A1P04	<u>B</u>	TG864A22	20P325	GG	X		X	
20A1P04	<u>CC</u>	TG102A16(WHT)	20P328	<u>G</u>	X		X	
20A1P04	CC	TG102A16(WHT)	SPLICE			X		
20A1P04	DD	TG102A16(BLU)	SPLICE			X		
20A1P04	DD	TG102A16(BLU)	20P328	<u>E</u>	X		X	
20A1P04	<u>D</u>	TG113A22(BLU)	20P327	J	X	X	X	
20A1P04	E	TG96A22(ORN)	20A2P03	<u>T</u>		X		
20A1P04	E	TG96A22	20P328	<u>C</u>	X		X	
20A1P04	EE	TG99A20(ORN)	20P328	F	X		X	
20A1P04	EE	TG99A20(ORN)	20A2P03	FF		X		
20A1P04	<u>E</u>	TG99A20(BLU)	20A2P03	EE		X		
20A1P04	<u>E</u>	TG99A20(BLU)	20P328	H	X		X	
20A1P04	F	TG107A22(BLU)	20A2P02	S		X		
20A1P04	F	TG107A22(BLU)	20P325	U	X		X	
20A1P04	FF	TG105A22(WHT)	20A2P03	<u>U</u>		X		
20A1P04	FF	TG105A22(WHT)	20P328	<u>E</u>	X		X	
20A1P04	<u>G</u>	TG860A22(BLU)	20P328	<u>D</u>	X		X	
20A1P04	<u>G</u>	TG860A22(BLU)	20A2P02	H		X		
20A1P04	HH	TG591D22(BLU)	3TB2	B1		X		
20A1P04	HH	TG591F22(BLU)	SPLICE		X		X	
20A1P04	<u>H</u>	TG115A22(WHT)	20A2P02	<u>D</u>		X		
20A1P04	<u>H</u>	TG115A22(WHT)	20P325	<u>C</u>	X		X	
20A1P04	J	TG109A22(WHT)	20P325	<u>W</u>	X		X	
20A1P04	<u>J</u>	TG122A22	20A7P02	<u>N</u>		X		
20A1P04	J	TG122A22	20P324	<u>G</u>	X		X	
20A1P04	J	TG109A22(WHT)	20A1P02	DD		X		
20A1P04	K	TG109A22(BLU)	20A2P02	EE		X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A1P04	K	TG109A22(BLU)	20P325	X	x		x	
20A1P04	L	TG19A22	END CAP		x	x	x	
20A1P04	M	TG860A22(WHT)	20A2P02			x		
20A1P04	M	TG860A22(WHT)	20P328	G	x		x	
20A1P04	M	TG117A22(BLU)	20A2P02	J		x		
20A1P04	M	TG117A22(BLU)	20P325	HH	x		x	
20A1P04	M	TG117A22(WHT)	20A2P02	E		x		
20A1P04	M	TG117A22(WHT)	20P325	GG	x		x	
20A1P04	N	TG119A20(BLU)	20A7P01	F		x		
20A1P04	N	TG119A20(BLU)	20P324	Y	x		x	
20A1P04	N	TG102A16(ORN)	20P328	FF	x		x	
20A1P04	N	TG102A16(ORN)	SPLICE	Q		x		
20A1P04	N	TG119A20(ORN)	20A7P01			x		
20A1P04	N	TG119A20(ORN)	20P324	S	x		x	
20A1P04	N	TG93A22(WHT)	20A1P05	N	x	x	x	
20A1P04	N	TG96A22(WHT)	20P328	C	x		x	
20A1P04	N	TG96A22(WHT)	20A2P03	B		x		
20A1P04	N	TG93A22(BLU)	20A1P05	R	x	x	x	
20A1P04	N	TG865A22	20P325	N	x		x	
20A1P04	N	TG93A22(ORN)	20A1P05	X	x	x	x	
20A1P04	N	TG113A22(WHT)	20P327	M	x	x	x	
20A1P04	N	TG119A20(WHT)	20A7P01	K		x		
20A1P04	N	TG119A20(WHT)	20P324	X	x		x	
20A1P04	N	TG99A20(WHT)	20A2P03	EE		x		
20A1P04	N	TG99A20(WHT)	20P328	DD	x		x	
20A1P04	N	TG115A22(BLU)	20P325	G	x		x	
20A1P04	N	TG115A22(BLU)	20A2P02	D		x		
20A1P04	N	TG105A22(BLU)	20A2P03	E		x		
20A1P04	N	TG105A22(BLU)	20P328	V	x		x	
20A1P04	N	TG96A22(BLU)	20A2P03	D		x		
20A1P04	N	TG123A22	20A7P02	S		x		
20A1P04	N	TG123A22	20P324	R	x		x	
20A1P04	N	TG96A22(BLU)	20P328	H	x		x	
20A1P05	A	TG90A22(WHT)	20J332	A	x	x	x	
20A1P05	A	TG129A22(BLU)	SPLICE	D	x	x	x	
20A1P05	B	TG127A22(WHT)	SPLICE		x	x	x	
20A1P05	B	TG129A22(ORN)	SPLICE		x	x	x	
20A1P05	B	TG127A22(BLU)	SPLICE		x	x	x	
20A1P05	C	TG93A22(WHT)	20A1P04		x	x	x	
20A1P05	C	TG111A22(WHT)	20A2P02	S		x		
20A1P05	C	TG111A22(WHT)	20P325	Q	x		x	
20A1P05	C	TG141B22(WHT)	SPLICE	Y	x	x	x	
20A1P05	D	TG111A22(BLU)	20A2P02			x		
20A1P05	D	TG111A22(BLU)	20P325	R	x		x	
20A1P05	D	TG145B22(BLU)	SPLICE	Z	x	x	x	
20A1P05	E	TG594C22(BLU)	SPLICE		x	x	x	
20A1P05	E	TG863A22	20P325		x		x	
20A1P05	F	TG129A22(WHT)	SPLICE	FF	x	x	x	
20A1P05	F	TG131A22(BLU)	SPLICE		x	x	x	

END 1		WIRE NO.	END2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20A1P05	I	TG131A22(ORN)	SPLICE		x		x	
20A1P05	J	TG151A22	20A7P02	D		x		
20A1P05	J	TG151A22	20P324	P	x		x	
20A1P05	K	TG139A20(WHT)	20A7P03	W		x		
20A1P05	K	TG139A20(WHT)	20P324	G	x		x	
20A1P05	K	TG134A22(ORN)	20A2P02	G		x		
20A1P05	K	TG134A22(ORN)	20P325	P	x		x	
20A1P05	L	TG141B22(BLU)	SPLICE		x	x	x	
20A1P05	M	TG139A20(BLU)	20A7P03	X		x		
20A1P05	M	TG139A20(BLU)	20P324	H	x		x	
20A1P05	M	TG93A22(ORN)	20A1P04	U	x	x	x	
20A1P05	N	TG147A22	20A1J09	W	x	x	x	
20A1P05	N	TG93A22(BLU)	20A1P04	T	x	x	x	
20A1P05	P	TG126A22	20A4P02	K	x	x	x	
20A1P05	P	TG145B22(WHT)	SPLICE		x	x	x	
20A1P05	Q	TG862A22	20P325	AA	x		x	
20A1P05	R	TG594C22(WHT)	SPLICE		x	x	x	
20A1P05	R	TG90A22(ORN)	20J332	GG	x	x	x	
20A1P05	S	TG148A22	20A2P04	J		x		
20A1P05	S	TG148A22	20P328	K	x		x	
20A1P05	S	TG90A22(BLU)	20J332	HH	x	x	x	
20A1P05	T	TG131A22(WHT)	SPLICE		x	x	x	
20A1P05	T	TG134A22(WHT)	20A2P02	F		x		
20A1P05	T	TG134A22(WHT)	20P325	M	x		x	
20A1P05	U	TG149A20	20A7P02	F		x		
20A1P05	U	TG149A20	20P324	M	x		x	
20A1P05	V	TG150A22	20A7P02	C		x		
20A1P05	V	TG150A22	20P324	N	x		x	
20A1P05	W	TG20A22	END CAP		x	x	x	
20A1P05	X	TG134A22(BLU)	20A2P02	h		x		
20A1P05	X	TG134A22(BLU)	20P325	N	x		x	
20A1P05	Y	TG137A22(WHT)	SPLICE		x	x	x	
20A1P05	Z	TG137A22(BLU)	SPLICE		x	x	x	
20A1P06	A	TG12A16(WHT)	20A2P01	C		x		
20A1P06	A	TG12A16(WHT)	20P328	A	x		x	
20A1P06	AA	TG51A22(WHT)	22A4P313	P			x	
20A1P06	AA	TG51B22(WHT)	SPLICE			x		
20A1P06	B	TG16A22(WHT)	20A7P03	E		x		
20A1P06	B	TG16A22(WHT)	20P324	C	x		x	
20A1P06	BB	TG14A16(BLU)	20P328	P	x		x	
20A1P06	BB	TG14A16(BLU)	20A2P01	A		x		
20A1P06	C	TG21A22	20P324	B	x	x	x	
20A1P06	C	TG25A22(WHT)	20A2P03	W		x		
20A1P06	C	TG25A22(WHT)	20P328	L	x		x	
20A1P06	D	TG25A22(BLU)	20A2P03	X		x		
20A1P06	D	TG25A22(BLU)	20P328	M	x		x	
20A1P06	EE	TG568A20(WHT)	20A2P01	B		x		
20A1P06	EE	TG568A20(WHT)	20P328	I	x		x	
20A1P06	FF	TG47A22(WHT)	22A4P13	T		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A1P06	FF	TG47A22(WHT)	22A4P313	V				
20A1P06	F	TG28A22(WHT)	20A2P02	A		X		
20A1P06	F	TG28A22(WHT)	20P325	F	X		X	
20A1P06	GG	TG49A22(WHT)	22A4P313	I	X			
20A1P06	GG	TG49A22(WHT)	22A4P313	U			X	
20A1P06	G	TG30A22(BLU)	20A2P02	Z		X		
20A1P06	G	TG30A22(BLU)	20P325	J	X		X	
20A1P06	GG	TG49A22(WHT)	22A4P13	V		X		
20A1P06	H	TG23A22(WHT)	20P328	J	X		X	
20A1P06	H	TG34A22(WHT)	22A4P313	N	X			
20A1P06	H	TG23A22(WHT)	20A2P03	y		X		
20A1P06	HH	TG568A20(BLU)	20A2P01	A		X		
20A1P06	HH	TG568A20(BLU)	20P328	H	X		X	
20A1P06	H	TG34A22(WHT)	22A4P313	B			X	
20A1P06	h	TG34A22(WHT)	22A4P13	V		X		
20A1P06	I	TG36A22(WHT)	SPLICE		X	X	X	
20A1P06	J	TG23A22(BLU)	20A2P03	Z		X		
20A1P06	J	TG23A22(BLU)	20P328	K	X		X	
20A1P06	J	TG38A22(WHT)	SPLICE		X	X	X	
20A1P06	K	TG15A22	END CAP		X		X	
20A1P06	K	TG40A22(WHT)	SPLICE		X	X	X	
20A1P06	L	TG28A22(BLU)	20A2P02	B		X		
20A1P06	L	TG28A22(BLU)	20P325	G	X		X	
20A1P06	M	TG34A22(BLU)	22A4P313	B	X			
20A1P06	M	TG45A22(BLU)	22A4P313	F	X		X	
20A1P06	M	TG34A22(BLU)	22A4P313	N			X	
20A1P06	M	TG45A22(BLU)	22A4P13	S		X		
20A1P06	M	TG34A22(BLU)	22A4P13	U		X		
20A1P06	N	TG36A22(BLU)	SPLICE		X		X	
20A1P06	N	TG45A22(WHT)	22A4P13	T		X		
20A1P06	N	TG45A22(WHT)	22A4P313	E	X		X	
20A1P06	P	TG38A22(BLU)	SPLICE		X			
20A1P06	P	TG14A16(WHT)	20A2P01	Z		X		
20A1P06	P	TG14A16(WHT)	20P328	C	X		X	
20A1P06	R	TG40A22(BLU)	SPLICE		X	X	X	
20A1P06	R	TG18A16(WHT)	20P323	A	X		X	
20A1P06	R	TG18A16(WHT)	SPLICE			X		
20A1P06	S	TG18A16(BLU)	SPLICE			X		
20A1P06	S	TG18A16(BLU)	20P323	C	X		X	
20A1P06	T	TG43A22(BLU)	22A4P13	Q		X		
20A1P06	T	TG43A22(BLU)	22A4P313	X	X		X	
20A1P06	T	TG18A16(ORN)	SPLICE			X		
20A1P06	T	TG18A16(ORN)	20P323	B	X		X	
20A1P06	U	TG43A22(WHT)	22A4P13	R		X		
20A1P06	U	TG43A22(WHT)	22A4P313	W	X		X	
20A1P06	W	TG12A16(BLU)	20A2P01	E		X		
20A1P06	W	TG12A16(BLU)	20P328	Z	X		X	
20A1P06	W	TG30A22(WHT)	20A2P02	Y		X		
20A1P06	W	TG30A22(WHT)	20P325	H	X		X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A1P06	x	TG16A22(BLU)	20A7P03	<u>B</u>		x		
20A1P06	x	TG16A22(BLU)	20P324	D	x		x	
20A1P06	<u>X</u>	TG47A22(BLU)	22A4P13	<u>S</u>		x		
20A1P06	<u>X</u>	TG47A22(BLU)	22A4P313	<u>J</u>	x		x	
20A1P06	<u>Y</u>	TG22A22	20A7P02	A		x		
20A1P06	Y	TG22A22	20P324	<u>A</u>	x		x	
20A1P06	<u>Y</u>	TG49A22(BLU)	22A4P313	<u>I</u>			x	
20A1P06	<u>Y</u>	TG49A22(BLU)	22A4P313	U	x			
20A1P06	<u>Y</u>	TG49A22(BLU)	22A4P13	<u>U</u>		x		
20A1P06	<u>Z</u>	TG51B22(BLU)	SPLICE		x	x		
20A1P06	<u>Z</u>	TG51A22(BLU)	22A4P313	<u>Q</u>			x	
20A1P11	A	TG6A20(BLU)	20A7P03	<u>K</u>		x		
20A1P11	A	TG6A20(WHT)	20P323	N	x		x	
20A1P11	B	TG6A20(BLU)	20P323	M	x		x	
20A1P11	B	TG6A20(WHT)	20A7P03	M		x		
20A1P11	C	TG8A22	20A4P02	<u>Q</u>	x	x	x	
20A1P11	D	TG9A22	20A4P02	<u>R</u>	x		x	
20A1P11	E	TG10A22	20A4P02	<u>S</u>	x		x	
20A1P11	F	TG11A22	20A4P02	<u>T</u>	x	x	x	
20A10P01	A	TG299A22(BLU)	20P325	<u>A</u>	x		x	
20A10P01	B	TG299A22(WHT)	20P325	<u>B</u>	x		x	
20A10P01	C	TG301A22(BLU)	20P327	<u>J</u>	x		x	
20A10P01	D	TG301A22(WHT)	20P327	<u>K</u>	x		x	
20A10P01	E	TG312A22(WHT) **	8XA5	<u>40</u>	x		x	
20A10P01	F	TG303A22	20P327	GG	x		x	
20A10P01	H	TG304A22	20P327	H	x		x	
20A10P01	K	TG305A22	20P327	JJ	x		x	
20A10P01	M	TG312A22N(BLU)	GND		x		x	
20A10P01	N	TG306A22(WHT)	20P327	<u>I</u>	x		x	
20A10P01	P	TG306A22(BLU)	20P327	<u>V</u>	x		x	
20A10P01	R	TG309A22(BLU)	20P327	<u>M</u>	x		x	
20A10P01	S	TG309A22(WHT)	20P327	<u>N</u>	x		x	
20A10P01	T	TG311A22	20P324	P	x		x	
20A10P01	U	TG306A22(ORN)	20P327	<u>U</u>	x		x	
20A10P01	V	TG44A22	END CAP		x		x	
20A11P1	1	TG373D22(WHT)	20P1	F	x	x	x	
20A11P1	2	TG373D22(BLU)	20P1	G	x	x	x	
20A11P1	3	TG376D22(BLU)	20P1	E	x	x	x	
20A11P1	4	TG376D22(WHT)	20P1	D	x	x	x	
20A11P1	5	5-22	END CAP		x	x	x	
20A11P1	6	6-22	END CAP		x	x	x	
20A11P1	7	7-22	END CAP		x	x	x	
20A11P1	8	TG570B22	20P1	H	x		x	
20A11P1	9	TG375B22N	20P1	C	x	x	x	
20A11P1	8	8-22	END CAP			x		
20A12P1	1	TG350D22(WHT)	20P2	F	x	x	x	
20A12P1	2	TG350D22(BLU)	20P2	G	x	x	x	
20A12P1	3	TG353D22(BLU)	20P2	E	x	x	x	
20A12P1	4	TG353D22(WHT)	20P2	D	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20A12P1	5	5-22	END CAP		x	x	x	
20A12P1	6	6-22	END CAP		x	x	x	
20A12P1	7	7-22	END CAP		x	x	x	
20A12P1	8	TG571B22	20P2	H			x	
20A12P1	8	8-22	END CAP			x		
20A12P1	9	TG352B22N	20P2	<u>C</u>	x	x	x	
20A16J01A	<u>A</u>	TG253B20	20A16J01A	<u>F</u>		x		
20A16J01A	F	TG253B20	20A16J01A	<u>A</u>		x		
20A16P01	<u>A</u>	TG253A20	20A4P01	<u>D</u>	x	x	x	
20A16P01	B	TG801C22	SPLICE			x		
20A16P01	B	TG801D22	20P326	<u>D</u>	x		x	
20A16P01	<u>B</u>	TG323A22	20A7P02	<u>X</u>		x		
20A16P01	<u>B</u>	TG323A22	20P324	<u>J</u>	x		x	
20A16P01	<u>C</u>	TG324A22	20P324	<u>K</u>	x		x	
20A16P01	C	TG513C22	SPLICE			x		
20A16P01	C	TG513D22	20P326	F	x		x	
20A16P01	<u>C</u>	TG324A22	20A7P02	U		x		
20A16P01	D	TG226B22	SPLICE		x	x	x	
20A16P01	E	TG46A22	END CAP		x	x	x	
20A16P01	F	TG239A20	SPLICE			x		
20A16P01	F	TG239E20	SPLICE		x		x	
20A16P01	G	TG281B22	SPLICE		x	x	x	
20A16P01	H	TG316A22(WHT)	8TB4	C2	x	x	x	
20A16P01	J	TG316A22N(BLU)	GND		x	x	x	
20A16P01	N	TG319A22	20A2P04	<u>X</u>		x		
20A16P01	N	TG319A22	20P328	<u>M</u>	x		x	
20A16P01	R	TG87A22	20A1P01	<u>CC</u>	x	x	x	
20A16P01	S	TG84A22(WHT)	20A1P01	<u>Y</u>	x	x	x	
20A16P01	T	TG84A22(ORN)	20A1P01	<u>X</u>	x	x	x	
20A16P01	U	TG84A22(BLU)	20A1P01	<u>F</u>	x	x	x	
20A16P01	V	TG252A22	20A4P02	<u>C</u>	x	x	x	
20A16P01	W	TG232A22	20A4P01	W	x	x	x	
20A16P01	X	TG320A22(WHT)	20A7P03	V		x		
20A16P01	X	TG320A22(WHT)	20P324	E	x		x	
20A16P01	Y	TG320A22(BLU)	20A7P03	<u>J</u>		x		
20A16P01	Y	TG320A22(BLU)	20P324	<u>F</u>	x		x	
20A16P01	Z	TG322A22	20A7P02	L		x		
20A16P01	Z	TG322A22	20P324	<u>I</u>	x		x	
20A2P01	A	TG568B20(BLU)	20J328	<u>H</u>	x		x	
20A2P01	B	TG568B20(WHT)	20J328	<u>I</u>	x		x	
20A2P01	A	TG14A16(BLU)	20A1P06	BB		x		
20A2P01	<u>A</u>	TG14B16(BLU)	20J328	<u>P</u>	x		x	
20A2P01	B	TG568A20(WHT)	20A1P06	<u>EE</u>		x		
20A2P01	<u>B</u>	TG366B22	SPLICE			x		
20A2P01	<u>B</u>	TG366D22	20J325	NN	x		x	
20A2P01	<u>C</u>	TG12B16(WHT)	20J328	<u>A</u>	x		x	
20A2P03	<u>C</u>	TG2B22	20J325	D	x		x	
20A2P04	D	TG566A22	20A7P01	M	x	x	x	
20A2P02	D	TG865B22	20J325	<u>X</u>	x		x	

END 1			WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF.	DES.	PIN		REF.	DES.	E	M	P	
20A2P01	<u>D</u>		TG367B22		SPLICE		X		
20A2P01	<u>E</u>		TG367D22	20J325	JJ	X		X	
20A2P01	<u>C</u>		TG118A22	END CAP		X	X	X	
20A2P01	<u>E</u>		TG12A16(WHT)	20A1P06	A		X		
20A2P01	<u>E</u>		TG12A16(BLU)	20A1P06	W		X		
20A2P01	<u>F</u>		TG12B16(BLU)	20J328	Z	X		X	
20A2P01	<u>F</u>		TG527A22(WHT)	20A7P03	C	X	X	X	
20A2P01	<u>F</u>		TG213B22	20J327	D	X	X	X	
20A2P01	<u>G</u>		TG527A22(BLU)	20A7P03	D	X	X	X	
20A2P01	<u>G</u>		TG533A16(WHT)	20A7P03	<u>S</u>	X	X	X	
20A2P01	<u>H</u>		TG204D22	SPLICE		X	X	X	
20A2P01	<u>J</u>		TG336A22	SPLICE			X		
20A2P01	<u>I</u>		TG533A16(BLU)	20A7P03	I	X	X	X	
20A2P01	<u>J</u>		TG338B22(WHT)	20J327	E	X	X	X	
20A2P01	<u>J</u>		TG337B22	20J325	<u>Y</u>	X		X	
20A2P01	<u>K</u>		TG338B22(BLU)	20J327	F	X	X	X	
20A2P01	<u>K</u>		TG522A22	20A7P02	<u>G</u>	X	X	X	
20A2P01	<u>L</u>		TG515A22(WHT)	20A7P01	H	X	X	X	
20A2P01	<u>M</u>		TG515A20(ORN)	20A7P01	J			X	
20A2P01	<u>M</u>		TG515A22(ORN)	20A7P01	J	X	X		
20A2P01	<u>M</u>		TG521A20	20A7P02	<u>E</u>	X	X	X	
20A2P01	<u>N</u>		TG515A22(BLU)	20A7P01	K	X	X	X	
20A2P01	<u>N</u>		TG520A20	20A7P02	<u>C</u>	X	X	X	
20A2P01	<u>P</u>		TG162B22	20J325	BB	X		X	
20A2P01	<u>P</u>		TG523A16	20A7P02	I	X	X	X	
20A2P01	<u>Q</u>		TG524A20	20A7P02	<u>K</u>	X	X	X	
20A2P01	<u>R</u>		TG591D22(WHT)	20J325	DD	X		X	
20A2P01	<u>R</u>		TG591B22(WHT)	3TB2	C2		X		
20A2P01	<u>R</u>		TG525A22	20A7P02	<u>M</u>	X	X	X	
20A2P01	<u>S</u>		TG591D22(BLU)	20J325	CC	X		X	
20A2P01	<u>S</u>		TG591B22(BLU)	3TB2	A1		X		
20A2P01	<u>S</u>		TG531A16(WHT)	20A7P03	<u>Q</u>	X	X	X	
20A2P01	<u>T</u>		TG591D22(ORN)	20J325	<u>EE</u>	X		X	
20A2P01	<u>T</u>		TG591B22(ORN)	3TB2	D3		X		
20A2P01	<u>T</u>		TG531A16(BLU)	20A7P03	G	X	X	X	
20A2P01	<u>X</u>		TG529A22(WHT)	20A7P03	K	X	X	X	
20A2P01	<u>Y</u>		TG529A22(BLU)	20A7P03	L	X	X	X	
20A2P01	<u>Z</u>		TG14A16(WHT)	20A1P06	<u>P</u>		X		
20A2P01	<u>Z</u>		TG14B16(WHT)	20J328	<u>C</u>	X		X	
20A2P02	AA		TG862B22	20J325	AA	X		X	
20A2P02	AA		TG127B22(BLU)	SPLICE			X		
20A2P02	<u>A</u>		TG127D22(BLU)	20J325	H	X		X	
20A2P02	<u>A</u>		TG28A22(WHT)	20A1P06	E		X		
20A2P02	<u>B</u>		TG28B22(WHT)	20J325	F	X		X	
20A2P02	BB		TG863B22	20J325	FF	X		X	
20A2P02	<u>B</u>		TG137D22(WHT)	20J325	I	X		X	
20A2P02	BB		TG28A22(BLU)	20A1P06	L		X		
20A2P02	<u>B</u>		TG137B22(WHT)	SPLICE			X		
20A2P02	<u>B</u>		TG28B22(BLU)	20J325	G	X		X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A2P02	C	TG864B22	20J325	GC	X		X	
20A2P02	CC	TG137B22(BLU)	SPLICE			X		
20A2P02	CC	TG137D22(BLU)	20J325	U	X		X	
20A2P02	DD	TG109B22(WHT)	20J325	W	X		X	
20A2P02	D	TG865B22	20J325	X	X		X	
20A2P02	D	TG115B22(WHT)	20J325	C	X		X	
20A2P02	D	TG115A22(WHT)	20A1P04	H		X		
20A2P02	E	TG120A22	END CAP		X	X	X	
20A2P02	EE	TG109A22(BLU)	20A1P04			X		
20A2P02	EE	TG109B22(BLU)	20J325	K	X		X	
20A2P02	E	TG115A22(BLU)	20A1P04	X		X		
20A2P02	E	TG115B22(BLU)	20J325	W	X		X	
20A2P02	F	TG134B22(WHT)	20J325	D	X		X	
20A2P02	F	TG134A22(WHT)	20A1P05	M		X		
20A2P02	G	TG860A22(WHT)	20A1P04	T		X		
20A2P02	G	TG860B22(BLU)	20J328	M				
20A2P02	G	TG860B22(WHT)	20J328	D	X			
20A2P02	GG	TG117A22(WHT)	20J328	J			X	
20A2P02	GG	TG117B22(WHT)	20A1P04	N		X		
20A2P02	G	TG134A22(ORN)	20J325	F	X		X	
20A2P02	G	TG134B22(ORN)	20A1P05	K		X		
20A2P02	H	TG1360A22(BLU)	20J325	P	X		X	
20A2P02	H	TG860B22(BLU)	20A1P04	G		X		
20A2P02	H	TG860B22(WHT)	20J328	D			X	
20A2P02	HH	TG117A22(BLU)	20J328	J	X			
20A2P02	HH	TG117B22(BLU)	20A1P04	M		X		
20A2P02	H	TG134B22(BLU)	20J325	E	X		X	
20A2P02	H	TG134A22(BLU)	20J325	N	X		X	
20A2P02	I	TG129D22(BLU)	20A1P05	X		X		
20A2P02	I	TG129B22(BLU)	20J325	HH	X		X	
20A2P02	J	TG67A22(WHT)	SPLICE			X		
20A2P02	J	TG67B22(WHT)	20A1P01	U		X		
20A2P02	J	TG129D22(WHT)	20J325	N	X		X	
20A2P02	J	TG129B22(WHT)	20J325	V	X		X	
20A2P02	K	TG67A22(BLU)	SPLICE			X		
20A2P02	K	TG67B22(BLU)	20A1P01	T		X		
20A2P02	K	TG129B22(ORN)	20J325	M	X		X	
20A2P02	K	TG129D22(ORN)	SPLICE			X		
20A2P02	L	TG69A22(WHT)	20J325	W	X		X	
20A2P02	L	TG69B22(WHT)	20A1P01	N		X		
20A2P02	M	TG69A22(BLU)	20J325	R	X		X	
20A2P02	M	TG69B22(BLU)	20A1P01	M		X		
20A2P02	O	TG111B22(WHT)	20J325	P	X		X	
20A2P02	O	TG111A22(WHT)	20J325	Y	X		X	
20A2P02	P	TG107A22(WHT)	20A1P05	D		X		
20A2P02	R	TG107B22(WHT)	20A1P04	A		X		
20A2P02	R	TG111B22(BLU)	20J325	V	X		X	
20A2P02	R	TG111A22(BLU)	20J325	Z	X		X	
20A2P02	S	TG107A22(BLU)	20A1P05	E		X		
20A2P02	S		20A1P04	F		X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20A2P02	S	TG107B22(BLU)	20J325	U	x		x	
20A2P02	<u>S</u>	TG113B22(WHT)	20J327	K	x	x	x	
20A2P02	<u>T</u>	TG74A22	20A1P01	FF		x		
20A2P02	T	TG74B22	20J325	<u>S</u>	x		x	
20A2P02	<u>T</u>	TG113B22(BLU)	20J327	<u>J</u>	x	x	x	
20A2P02	<u>U</u>	TG71A22	20A1P01	<u>W</u>		x		
20A2P02	U	TG71B22	20J325	<u>R</u>	x		x	
20A2P02	V	TG66B22	20J325	<u>Q</u>	x		x	
20A2P02	W	TG72B22(WHT)	SPLICE			x		
20A2P02	W	TG72D22(WHT)	20J325	T	x		x	
20A2P02	<u>W</u>	TG131C22(BLU)	SPLICE			x		
20A2P02	<u>W</u>	TG131D22(BLU)	20J325	<u>K</u>	x		x	
20A2P02	<u>X</u>	TG72B22(BLU)	SPLICE			x		
20A2P02	X	TG72D22(BLU)	20J325	S	x		x	
20A2P02	<u>X</u>	TG131C22(WHT)	SPLICE			x		
20A2P02	<u>X</u>	TG131D22(WHT)	20J325	<u>I</u>	x		x	
20A2P02	<u>Y</u>	TG30A22(WHT)	20A1P06	<u>W</u>		x		
20A2P02	<u>Y</u>	TG131C22(ORN)	SPLICE			x		
20A2P02	<u>Y</u>	TG30B22(WHT)	20J325	H	x		x	
20A2P02	<u>Y</u>	TG131D22(ORN)	20J325	<u>J</u>	x		x	
20A2P02	<u>Z</u>	TG30A22(BLU)	20A1P06	<u>G</u>		x		
20A2P02	Z	TG30B22(BLU)	20J325	J	x		x	
20A2P02	<u>Z</u>	TG127B22(WHT)	SPLICE			x		
20A2P02	<u>Z</u>	TG127D22(WHT)	20J325	<u>G</u>	x		x	
20A2P03	AA	TG102B22(WHT)	SPLICE			x		
20A2P03	AA	TG102C22(WHT)	SPLICE		x		x	
20A2P03	BB	TG102B22(BLU)	SPLICE			x		
20A2P03	BB	TG102C22(BLU)	SPLICE		x		x	
20A2P03	<u>B</u>	TG1B22	20J325	C	x		x	
20A2P03	<u>B</u>	TG7A22	19TB4	G20		x		
20A2P03	CC	TG102B22(ORN)	SPLICE			x		
20A2P03	CC	TG102C22(ORN)	SPLICE		x		x	
20A2P03	<u>C</u>	TG2A22	20A1J09	<u>F</u>		x		
20A2P03	<u>C</u>	TG2B22	20J325	<u>D</u>	x		x	
20A2P02	<u>V</u>	TG66A22	20A1P01		K	x		
20A2P03	DD	TG99A20(WHT)	20A1P04	<u>V</u>		x		
20A2P03	DD	TG99B20(WHT)	20J328	<u>G</u>	x		x	
20A2P03	<u>D</u>	TG3A22	20A1J09	<u>G</u>		x		
20A2P03	<u>D</u>	TG3B22	20J325	<u>E</u>	x		x	
20A2P03	E	TG121A22	END CAP		x	x	x	
20A2P03	EE	TG99A20(BLU)	20A1P04	<u>E</u>		x		
20A2P03	EE	TG99B20(BLU)	20J328	H	x		x	
20A2P03	<u>E</u>	TG62A22	20A1P01	B		x		
20A2P03	<u>E</u>	TG62B22	20J328	X	x		x	
20A2P03	FF	TG99A20(ORN)	20A1P04	EE		x		
20A2P03	FF	TG99B20(ORN)	20J328	F	x		x	
20A2P03	GG	TG64A22	20A1P01	H		x		
20A2P03	GG	TG64B22	20J328	<u>B</u>	x		x	
20A2P03	<u>G</u>	TG174B20(ORN)	20J328	W	x		x	

END 1		WIRE NO.	END 2					FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A2P03	G	TG174A20(ORN)	20A1P03	K				
20A2P03	H	TG174B20(WHT)	20J328	V	x	x	x	
20A2P03	H	TG174A20(WHT)	20A1P03	J		x		
20A2P03	I	TG174A20(BLU)	20A1P03	H		x		
20A2P03	I	TG174B20(BLU)	20J328	U	x		x	
20A2P03	J	TG368E22	20TB3	1		x		
20A2P03	J	TG368F22	20J325	A	x		x	
20A2P03	J	TG518A22	20A7P01	J	x	x	x	
20A2P03	K	TG369E22	20TB3	3		x		
20A2P03	K	TG369F22	20J325	B	x		x	
20A2P03	K	TG178B22(WHT)	20J328	P	x		x	
20A2P03	K	TG178A22(WHT)	20A1P03	D		x		
20A2P03	L	TG503A22	20A5P02	X	x	x	x	
20A2P03	M	TG485A22	20A5P01	J	x	x	x	
20A2P03	M	TG178B22(BLU)	20J328	N	x		x	
20A2P03	M	TG178A22(BLU)	20A1P03	L		x		
20A2P03	N	TG511A22	20A5P03	Y	x	x	x	
20A2P03	N	TG180B22(WHT)	20J328	T	x		x	
20A2P03	N	TG180A22(WHT)	20A1P03	P		x		
20A2P03	P	TG180A22(BLU)	20A1P03	C		x		
20A2P03	P	TG180B22(BLU)	20J328	S	x		x	
20A2P03	P	TG180B22(ORN)	20J328	R	x		x	
20A2P03	P	TG180A22(ORN)	20A1P03	N		x		
20A2P03	R	TG96B22(WHT)	20J328	B	x		x	
20A2P03	R	TG509A22	20A5P03	S	x	x	x	
20A2P03	R	TG96A22(WHT)	20A1P04	S		x		
20A2P03	R	TG96B22(WHT)	20J328	B	x		x	
20A2P03	S	TG96B22(BLU)	20J328	A	x		x	
20A2P03	S	TG96A22(BLU)	20A1P04	Z		x		
20A2P03	T	TG510A22	20A5P03	U	x	x	x	
20A2P03	T	TG96A22(ORN)	20A1P04	E		x		
20A2P03	T	TG96B22(ORN)	20J328	C	x		x	
20A2P03	U	TG536A22	20A5P03	PP	x	x	x	
20A2P03	U	TG105A22(WHT)	20A1P04	FF		x		
20A2P03	U	TG105B22(WHT)	20J328	E	x		x	
20A2P03	V	TG506A22	20A5P03	N	x	x	x	
20A2P03	V	TG105A22(BLU)	20A1P04	X		x		
20A2P03	V	TG105B22(BLU)	20J328	D	x		x	
20A2P03	W	TG535A22	20A5P03	H	x	x	x	
20A2P03	W	TG25A22(WHT)	20A1P06	C		x		
20A2P03	W	TG25B22(WHT)	20J328	L	x		x	
20A2P03	X	TG507A22	20A5P03	Q	x	x	x	
20A2P03	X	TG25A22(BLU)	20A1P06	D		x		
20A2P03	X	TG25B22(BLU)	20J328	M	x		x	
20A2P03	Y	TG508A22	20A5P03	R	x	x	x	
20A2P03	Y	TG23B22(WHT)	20J328	J	x		x	
20A2P03	Y	TG23A22(WHT)	20A1P06	H		x		
20A2P03	Z	TG484A22	20A5P01	X	x	x	x	
20A2P03	Z	TG23B22(BLU)	20J328	.	x		x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20A2P03	<u>Z</u>	TG23A22(BLU)	20A1P06	J		x		
20A2P04	AA	TG512A22	20A5P03	CC	x	x	x	
20A2P04	<u>A</u>	TG301B22(BLU)	20J327	<u>J</u>	x	x	x	
20A2P04	BB	TG483A22	20A5P01	<u>R</u>	x	x	x	
20A2P04	<u>B</u>	TG303B22	20J327	GG	x	x	x	
20A2P04	CC	TG500A22	20A5P02	S	x	x	x	
20A2P04	<u>C</u>	TG304B22	20J327	HH	x	x	x	
20A2P04	DD	TG498A22	20A5P02	M	x	x	x	
20A2P04	<u>D</u>	TG305B22	20J327	JJ	x	x	x	
20A2P04	E	TG124A22	END CAP		x	x	x	
20A2P04	EE	TG501A22	20A5P02	U	x	x	x	
20A2P04	<u>E</u>	TG306B22(WHT)	20J327	<u>T</u>	x	x	x	
20A2P04	F	TG306B22(ORN)	20J327	<u>U</u>	x	x	x	
20A2P04	FF	TG489A22	SPLICE		x	x	x	
20A2P04	<u>F</u>	TG306B22(BLU)	20J327	<u>V</u>	x	x	x	
20A2P04	G	TG271F20	20J327	NN	x	x	x	
20A2P04	GG	TG490A22	SPLICE		x	x	x	
20A2P04	<u>G</u>	TG309B22(WHT)	20J327	<u>N</u>	x	x	x	
20A2P04	H	TG163B22(BLU)	16TB1	A6		x		
20A2P04	HH	TG163B22(BLU)	20J328	<u>S</u>	x		x	
20A2P04	HH	TG491A22	20A5P02	<u>C</u>	x	x	x	
20A2P04	<u>H</u>	TG309B22(BLU)	20J327	<u>M</u>	x	x	x	
20A2P04	I	TG205B22(WHT)	20J327	<u>Z</u>	x	x	x	
20A2P04	J	TG148B22	20J328	<u>K</u>	x		x	
20A2P04	J	TG148A22	20A1P05	S		x		
20A2P04	JJ	TG492A22	20A5P02	D	x	x	x	
20A2P04	<u>J</u>	TG205B22(BLU)	20J327	<u>A</u>	x	x	x	
20A2P04	KK	TG493A22	20A5P02	<u>E</u>	x	x	x	
20A2P04	<u>K</u>	TG207B22(WHT)	20J327	<u>B</u>	x	x	x	
20A2P04	L	TG342D22(WHT)	20J327	<u>R</u>	x	x	x	
20A2P04	LL	TG494A22	SPLICE		x	x	x	
20A2P04	M	TG342D22(BLU)	20J327	<u>S</u>	x	x	x	
20A2P04	MM	TG495A22	SPLICE		x	x	x	
20A2P04	<u>M</u>	TG207B22(BLU)	20J327	<u>C</u>	x	x	x	
20A2P04	N	TG340D22(WHT)	20J327	<u>P</u>	x	x	x	
20A2P04	NN	TG496A22	SPLICE		x	x	x	
20A2P04	<u>N</u>	TG209B22(WHT)	20J327	<u>D</u>	x	x	x	
20A2P04	P	TG340D22(BLU)	20J327	<u>Q</u>	x	x	x	
20A2P04	PP	TG497A22	SPLICE		x	x	x	
20A2P04	<u>P</u>	TG209B22(BLU)	20J327	<u>E</u>	x	x	x	
20A2P04	Q	TG211B22(WHT)	20J327	<u>F</u>	x	x	x	
20A2P04	<u>R</u>	TG432B22(WHT)	20J327	<u>W</u>	x	x	x	
20A2P04	R	TG211B22(BLU)	20J327	<u>G</u>	x	x	x	
20A2P04	<u>S</u>	TG432B22(BLU)	20J327	<u>X</u>	x	x	x	
20A2P04	S	TG163B22(WHT)	16TB1	F7		x		
20A2P04	<u>S</u>	TG163B22(WHT)	20J328	<u>R</u>	x		x	
20A2P04	T	TG432B22(ORN)	20J327	<u>Y</u>	x	x	x	
20A2P04	<u>T</u>	TG273B22	20J327	DD	x	x	x	
20A2P04	U	TG435B22(WHT)	20J327	<u>Z</u>	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A2P04	U	TG272B22	20J327	CC	x		x	
20A2P04	V	TG435B22(BLU)	20J327	AA	x		x	
20A2P04	V	TG435B22	20J327	BB		X		
20A2P04	V	TG274B22	20J327	EE	x	x	x	
20A2P04	W	TG435B22(ORN)	20J327	AA		x		
20A2P04	W	TG435B22(ORN)	20J327	BB	x		x	
20A2P04	W	TG275B22	20J327	FF	x	x	x	
20A2P04	X	TG319A22	20A16P01	N		x		
20A2P04	X	TG319B22	20J328	M	x		x	
20A2P04	X	TG299A22(WHT)	16A2P1	V		x		
20A2P04	X	TG299B22(WHT)	20J325	B	x		x	
20A2P04	Y	TG299A22(BLU)	16A2P1	W		x		
20A2P04	Y	TG299B22(BLU)	20J325	A	x		x	
20A2P04	Y	TG499B22	SPLICE		x	x	x	
20A2P04	Z	TG301B22(WHT)	20J327	K	x	x	x	
20A2P04	Z	TG513A22	SPLICE		x	x	x	
20A2P05	EE	A1249A22(ORN)	16TB1	F8		x		
20A2P05	Q	A1022A22(WHT)	20A1J53	J		x		
20A2P05	R	A1022A22(BLU)	20A1J53	P		x		
20A2P05	T	A1249A22(WHT)	16TB1	A9		x		
20A2P05	U	A1249A22(BLU)	16TB1	G9		x		
20A20P1	A	TG850A22	20J331	N	x	x	x	
20A20P1	A	TG368A22	SPLICE		x	x	x	
20A20P1	B	TG851A22	20J331	R	x	x	x	
20A20P1	B	TG393E22	SPLICE		x	x	x	
20A20P1	C	TG853A22	20J331	W	x	x	x	
20A20P1	C	TG386A20N	GND		x	x	x	
20A20P1	C	TG371D22(WHT)	SPLICE		x	x	x	
20A20P1	D	TG371D22(BLU)	SPLICE		x	x	x	
20A20P1	E	TG573A22	20A20P1	F	x	x	x	
20A20P1	E	TG388A20N	20TB3	11	x	x	x	
20A20P1	F	TG573A22	20A20P1	E	x	x	x	
20A20P1	F	TG389A22N	SPLICE		x	x	x	
20A20P1	H	TG376A22(WHT)	SPLICE		x	x	x	
20A20P1	H	TG594F22(WHT)	SPLICE		x		x	
20A20P1	H	TG594F22(WHT)	3TB2	B4		x		
20A20P1	J	TG376A22(BLU)	SPLICE		x	x	x	
20A20P1	J	TG594F22(BLU)	SPLICE		x		x	
20A20P1	J	TG594F22(BLU)	3TB2	D5		x		
20A20P1	K	TG384A22(WHT)	SPLICE		x	x		
20A20P1	L	TG384A22(BLU)	SPLICE		x	x	x	
20A20P1	M	TG373A22(WHT)	SPLICE		x	x	x	
20A20P1	N	TG373A22(BLU)	SPLICE		x	x	x	
20A20P1	R	TG570A22	20J1	H			x	
20A20P1	S	TG378A22(WHT)	SPLICE		x	x	x	
20A20P1	T	TG378A22(BLU)	SPLICE		x	x	x	
20A20P1	U	TG382A22(BLU)	SPLICE		x	x	x	
20A20P1	V	TG382A22(WHT)	SPLICE		x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
20A20P1	W	TG380A22(WHT)	21J1	<u>G</u> <u>C</u> <u>H</u> <u>D</u>	x	x		
20A20P1	W	TG380A22(WHT)	21J3				x	
20A20P1	X	TG380A22(BLU)	21J1		x	x		
20A20P1	X	TG380A22(BLU)	21J3				x	
20A20P1	Z	TG366A22	SPLICE	Y	x	x	x	
20A20P2	A	TG854A22	20J331		x	x	x	
20A20P2	<u>A</u>	TG365A22	SPLICE		x	x	x	
20A20P2	<u>B</u>	TG855A22	20J331		x	x	x	
20A20P2	<u>B</u>	TG443E22	SPLICE	<u>R</u>	x	x	x	
20A20P2	<u>C</u>	TG587A22N	GND		x	x	x	
20A20P2	<u>C</u>	TG856A22	20J331		x	x	x	
20A20P2	<u>C</u>	TG271D20	SPLICE		x	x	x	
20A20P2	<u>C</u>	TG578A22N	SPLICE	<u>E</u>	x	x	x	
20A20P2	<u>D</u>	TG145A22(WHT)	SPLICE		x	x	x	
20A20P2	<u>E</u>	TG353A22(WHT)	SPLICE		x	x	x	
20A20P2	<u>F</u>	TG145A22(BLU)	SPLICE		x	x	x	
20A20P2	E	TG353A22(BLU)	SPLICE		x	x	x	
20A20P2	G	TG141A22(WHT)	SPLICE		x	x	x	
20A20P2	<u>G</u>	TG141A22(WHT)	SPLICE		x	x	x	
20A20P2	H	TG361A22(WHT)	SPLICE		x	x	x	
20A20P2	<u>H</u>	TG141A22(BLU)	SPLICE		x	x	x	
20A20P2	J	TG361A22(BLU)	SPLICE		x	x	x	
20A20P2	K	TG350A22(WHT)	SPLICE		x	x	x	
20A20P2	L	TG350A22(BLU)	SPLICE		x	x	x	
20A20P2	M	TG86A22	END CAP	H	x		x	
20A20P2	N	TG571A22	20J2				x	
20A20P2	P	TG355A22(WHT)	SPLICE		x	x	x	
20A20P2	R	TG355A22(BLU)	SPLICE		x	x	x	
20A20P2	S	TG359A22(WHT)	SPLICE	<u>C</u>	x	x	x	
20A20P2	T	TG359A22(BLU)	SPLICE		x	x	x	
20A20P2	U	TG357A22(WHT)	21J4				x	
20A20P2	U	TG357A22(WHT)	21J2		x	x		
20A20P2	V	TG357A22(BLU)	21J2	<u>H</u> <u>D</u>	x	x		
20A20P2	V	TG357A22(BLU)	21J4				x	
20A20P2	X	TG367A22	SPLICE		x	x	x	
20A20P2	Y	TG369A22	SPLICE		x	x	x	
20A4P01	<u>A</u>	TG235A22	SPLICE	J6	x	x	x	
20A4P01	<u>B</u>	TG237A22(WHT)	8TB5		x	x	x	
20A4P01	<u>C</u>	TG237A22(BLU)	GND				x	
20A4P01	<u>C</u>	TG237A22N(BLU)	GND		x	x		
20A4P01	D	TG253A20	20A16P01	<u>A</u> <u>V</u> <u>J</u> <u>E</u>	x	x	x	
20A4P01	E	TG240A22	20A5P02			x		
20A4P01	<u>E</u>	TG240A22	20P326		x		x	
20A4P01	<u>G</u>	TG241A22	20A5P02			x		
20A4P01	<u>G</u> <u>H</u> <u>H</u> <u>I</u>	TG241A22	20P326	K	x		x	
20A4P01		TG242A22	20A5P02	<u>H</u>		x		
20A4P01		TG242A22	20P326	L	x		x	
20A4P01		TG244A22	20A7P01	F		x		
20A4P01	<u>I</u>	TG244A22	20P324	GG	x		x	
20A4P01	<u>I</u>	TG243A22	20A5P02	<u>J</u>		x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A4P01	J	TG243A22	20P326	M	x		x	
20A4P01	K	TG245A20	SPLICE		x	x		
20A4P01	K	TG245A20	20P324	W			x	
20A4P01	L	A1042A22	22A5P1	23		x		
20A4P01	M	TG249A16(WHT)	20P323	P	x		x	
20A4P01	M	TG224A22	20J1	G	x	x	x	
20A4P01	m	TG249A16(WHT)	20A7P03	T		x		
20A4P01	N	TG225A22	20J1	I	x	x	x	
20A4P01	P	TG226A22	SPLICE		x	x	x	
20A4P01	P	TG247A20	20A7P02	T		x		
20A4P01	P	TG247A20	20P324	Y	x		x	
20A4P01	R	TG227A22	20J1	H	x	x	x	
20A4P01	R	TG249A16(BLU)	20P323	R	x		x	
20A4P01	R	TG249A16(BLU)	20A7P03	G		x		
20A4P01	S	TG228A22	20J2	I	x	x	x	
20A4P01	T	TG229A22	20J2	G	x	x	x	
20A4P01	U	TG230A22	20J2	H	x	x	x	
20A4P01	V	TG231A22	20J2	E	x	x	x	
20A4P01	W	TG232A22	20A16P01	W	x	x	x	
20A4P01	Y	TG234A22	19TB4	C1	x	x	x	
20A4P01	Z	TG236A22	19K80	F3	x		x	
20A4P01	Z	TG236A22	22A5P2	54		x		
20A4P02	A	TG272A22	20P327	cc	x	x	x	
20A4P02	B	TG251A22	SPLICE		x	x	x	
20A4P02	B	TG274A22	20P327	EE	x	x	x	
20A4P02	C	TG252A22	20A16P01	V	x	x	x	
20A4P02	C	TG275A22	20P327	FF	x	x	x	
20A4P02	D	TG276A22	20P327	A	x	x	x	
20A4P02	E	TG31A22	END CAP		x	x	x	
20A4P02	F	TG255A22	16TB1	F12		x		
20A4P02	F	TG255A22	19TB4	F10	x		x	
20A4P02	E	TG278A22	20P326	E	x		x	
20A4P02	E	TG278A22	20A5P01	T		x		
20A4P02	G	TG256A22	16TB1	A14		x		
20A4P02	G	TG256A22	19TB4	A12	x		x	
20A4P02	GG	TG143A22	20A1J09	L		x		
20A4P02	G	TG279A20	20P326	G	x		x	
20A4P02	G	TG279A20	20A5P01	B		x		
20A4P02	H	TG257A22	16TB1	G12		x		
20A4P02	H	TG257A22	19TB4	G10	x		x	
20A4P02	HH	TG142A22	20A1J09	K		x		
20A4P02	H	TG280A22	20P326	N	x		x	
20A4P02	H	TG280A22	20A5P02	L		x		
20A4P02	I	TG281A22	SPLICE		x	x	x	
20A4P02	J	TG258A22	16TB1	B14		x		
20A4P02	J	TG258A22	19TB4	B12	x		x	
20A4P02	JJ	TG144A22	20A1J09	M		x		
20A4P02	J	TG171A22	20A1P03	E	x	x	x	
20A4P02	K	TG259A22	16TB1	H12		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
20A4P02	K	TG259A22	19TB4	H10	x		x	
20A4P02	KK	A1036A22	20A1J53	F		x		
20A4P02	<u>K</u>	TG126A22	20A1P05	P	x	x	x	
20A4P02	L	TG260A22	16TB1	C14		x		
20A4P02	L	TG260A22	19TB4	C12	x		x	
20A4P02	LL	A137A22	20A1J53	<u>A</u>		x		
20A4P02	M	TG261A22	16TB1	J12		x		
20A4P02	M	TG261A22	19TB4	J10	x		x	
20A4P02	<u>M</u>	A1040A22	20A1J53	<u>U</u>		x		
20A4P02	N	TG262A22	16TB1	D14		x		
20A4P02	N	TG26A22	19TB4	D12	x		x	
20A4P02	<u>N</u>	A1039A22	20A1J53	<u>C</u>		x		
20A4P02	P	TG263A22	20J1	<u>K</u>	x	x	x	
20A4P02	<u>Q</u>	TG8A22	20A1P11	<u>N</u>	x	x	x	
20A4P02	R	TG264A22	20J1	<u>N</u>	x	x	x	
20A4P02	<u>R</u>	TG9A22	20A1P11	D	x		x	
20A4P02	S	TG265A22	20J1	<u>J</u>	x	x	x	
20A4P02	<u>S</u>	TG10A22	20A1P11	E	x		x	
20A4P02	T	TG266A22	20J1	<u>M</u>	x	x	x	
20A4P02	<u>T</u>	TG11A22	20A1P11	F	x	x	x	
20A4P02	U	TG267A22	20J2	<u>N</u>	x	x	x	
20A4P02	<u>U</u>	A1038A22	20A1J53	EE		x		
20A4P02	V	TG268A22	20J2	<u>K</u>	x	x	x	
20A4P02	W	TG269A22	20J2	<u>M</u>	x	x	x	
20A4P02	<u>W</u>	A1041A22	20A1J53	R		x		
20A4P02	X	TG270A22	20J2	<u>J</u>	x	x	x	
20A4P02	Y	TG271A20	SPLICE		x	x	x	
20A4P02	Z	TG273A22	20P327	DD			x	
20A4P02	Z	TG867A22	22A5P1	29		x		
20A4P02	Z	TG867A22	20XK94	A3	x			
20A5P01	A	TG475A22(WHT)	20A7P01	P	x	x	x	
20A5P01	B	TG475A22(BLU)	20A7P01	R	x	x	x	
20A5P01	<u>B</u>	TG279A20	20A4P02	G		x		
20A5P01	<u>B</u>	TG279B20	20J326	G	x		x	
20A5P01	D	TG203A22	20A6P01	N		x		
20A5P01	<u>D</u>	TG203B22	20J326	A	x		x	
20A5P01	<u>E</u>	TG480A22	20A7P02	<u>B</u>	x	x	x	
20A5P01	<u>F</u>	TG481A16	20A7P02	Z	x	x	x	
20A5P01	<u>G</u>	TG482A22	20A7P02	<u>A</u>	x	x	x	
20A5P01	<u>H</u>	TG485A22	20A2P03	M	x	x	x	
20A5P01	<u>I</u>	TG477A22	20A7P02	<u>J</u>	x	x	x	
20A5P01	<u>J</u>	TG478A22	20A7P02	<u>D</u>	x	x	x	
20A5P01	<u>K</u>	TG479A22	20A7P02	<u>H</u>	x	x	x	
20A5P01	L	TG281C22	SPLICE			x		
20A5P01	M	TG281D22	20J326	H	x		x	
20A5P01	P	TG486A20(BLU)	20A7P03	<u>A</u>	x	x	x	
20A5P01	<u>Q</u>	TG483A22	20A2P04	BB	x	x	x	
20A5P01	R	TG486A20(WHT)	20A7P03	<u>P</u>	x	x	x	
20A5P01	<u>R</u>	TG438A16(BLU)	16TB1	A11		x		
20A5P01	<u>S</u>							

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
20A5P01	<u>S</u>	TG438A16(BLU)	20TB1	4	x		x	
20A5P01	<u>T</u>	TG438A16(WHT)	16TB1	A10		x		
20A5P01	<u>T</u>	TG278A22	20A4P02	<u>E</u>		x		
20A5P01	<u>T</u>	TG278B22	20J326	<u>E</u>	x		x	
20A5P01	<u>T</u>	TG438A16(WHT)	20TB1	2	x		x	
20A5P01	<u>U</u>	TG239B20	SPLICE			x		
20A5P01	<u>U</u>	TG239A20	20J326	C	x		x	
20A5P01	<u>V</u>	TG276B22	20J327	A	x	x	x	
20A5P01	<u>W</u>	TG204C22	SPLICE		x	x	x	
20A5P01	<u>X</u>	TG484A22	20A2P03	Z	x	x	x	
20A5P01	<u>Y</u>	TG110A22	END CAP		x	x	x	
20A5P02	<u>A</u>	TG489B22	SPLICE		x	x	x	
20A5P02	<u>A</u>	TG420B16(WHT)	20J326	<u>A</u>	x		x	
20A5P02	<u>A</u>	TG420A16(WHT)	20TB3	4		x		
20A5P02	<u>B</u>	TG490B22	SPLICE		x	x	x	
20A5P02	<u>B</u>	TG81D22	20J326	S	x		x	
20A5P02	<u>B</u>	TG81622	SPLICE			x		
20A5P02	<u>C</u>	TG491A22	20A2P04	HH	x	x	x	
20A5P02	<u>C</u>	TG173B22	20J326	V	x		x	
20A5P02	<u>C</u>	TG173A22	20A1P03	G		x		
20A5P02	<u>D</u>	TG492A22	20A2P04	JJ	x	x	x	
20A5P02	<u>D</u>	TG82D22	20J326	T	x		x	
20A5P02	<u>D</u>	TG82B22	SPLICE			x		
20A5P02	<u>E</u>	TG493A22	20A2P04	KK	x	x	x	
20A5P02	<u>E</u>	TG241B22	20J326	K	x		x	
20A5P02	<u>E</u>	TG241A22	20A4P01	<u>G</u>		x		
20A5P02	<u>F</u>	TG494B22	SPLICE		x	x	x	
20A5P02	<u>F</u>	TG83D22	20J326	U	x		x	
20A5P02	<u>F</u>	TG83B22	SPLICE			x		
20A5P02	<u>G</u>	TG495B22	SPLICE		x	x	x	
20A5P02	<u>G</u>	TG458A16(BLU)	20J326	<u>I</u>	x		x	
20A5P02	<u>G</u>	TG458A16(BLU)	20J2	Z		x		
20A5P02	<u>H</u>	TG496B22	SPLICE		x	x	x	
20A5P02	<u>H</u>	TG242B22	20J326	L	x		x	
20A5P02	<u>H</u>	TG242A22	20A4P01	<u>H</u>		x		
20A5P02	<u>I</u>	TG410A16(BLU)	20J326	<u>S</u>	x		x	
20A5P02	<u>I</u>	TG410A16(BLU)	20J1	<u>B</u>		x		
20A5P02	<u>J</u>	TG497B22	SPLICE		x	x	x	
20A5P02	<u>J</u>	TG243B22	20J326	M	x		x	
20A5P02	<u>J</u>	TG243A22	20A4P01	<u>J</u>		x		
20A5P02	<u>K</u>	TG79A22	20A1P01	<u>C</u>		x		
20A5P02	<u>K</u>	TG79B22	20J326	P	x		x	
20A5P02	<u>K</u>	TG423A16(BLU)	20TB3	8		x		
20A5P02	<u>K</u>	TG423B16(BLU)	20J326	<u>Q</u>	x		x	
20A5P02	<u>L</u>	TG280A22	20A4P02	<u>H</u>		x		
20A5P02	<u>L</u>	TG280B22	20J326	N	x		x	
20A5P02	<u>M</u>	TG498A22	20A2P04	DD	x	x	x	
20A5P02	<u>M</u>	TG420B16(BLU)	20J326	<u>P</u>	x		x	
20A5P02	<u>M</u>	TG420A16(BLU)	20TB3	5		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
20A5P02	<u>N</u>	TG408A16(WHT)	20J326	<u>G</u>	x		x	
20A5P02	<u>N</u>	TG408A16(WHT)	20J1	Y		x		
20A5P02	<u>P</u>	TG502A22	20A7P01	T	x	x	x	
20A5P02	<u>P</u>	TG408A16(BLU)	20J326	<u>R</u>	x		x	
20A5P02	<u>Q</u>	TG408A16(BLU)	20J1	Z		x		
20A5P02	<u>Q</u>	TG458A16(WHT)	20J326	<u>N</u>	x		x	
20A5P02	<u>R</u>	TG458A16(WHT)	20J2	Y		x		
20A5P02	<u>R</u>	TG499A22	SPLICE		x	x	x	
20A5P02	<u>R</u>	TG460A16(BLU)	20J326	<u>M</u>	x		x	
20A5P02	<u>S</u>	TG460A16(BLU)	20J2	<u>B</u>		x		
20A5P02	<u>S</u>	TG500A22	20A2P04	CC	x	x	x	
20A5P02	<u>S</u>	TG410A16(WHT)	20J326	<u>I</u>	x		x	
20A5P02	<u>T</u>	TG410A16(WHT)	20J1	<u>A</u>		x		
20A5P02	<u>T</u>	TG460A16(WHT)	20J326	<u>K</u>	x		x	
20A5P02	<u>T</u>	TG460A16(WHT)	20J2	<u>A</u>		x		
20A5P02	<u>U</u>	TG501A22	20A2P04	EE	x	x	x	
20A5P02	<u>V</u>	TG240A22	20A4P01	<u>E</u>		x		
20A5P02	<u>V</u>	TG240B22	20J326	J	x		x	
20A5P02	<u>W</u>	TG80B22	SPLICE			x		
20A5P02	<u>W</u>	TG80D22	20J326	R	x		x	
20A5P02	<u>X</u>	TG503A22	20A2P03	L	x	x	x	
20A5P02	<u>Y</u>	TG108A22	END CAP		x	x	x	
20A5P02	<u>Z</u>	TG423A16(WHT)	20TB3	7		x		
20A5P02	<u>Z</u>	TG423B16(WHT)	20J326	<u>E</u>	x		x	
20A5P03	AA	TG53B22	20J327	T	x	x	x	
20A5P03	<u>A</u>	TG406A22(WHT)	20J327	L	x	x	x	
20A5P03	BB	TG55B22	20J327	U	x	x	x	
20A5P03	<u>B</u>	TG406A22(BLU)	20J327	M	x	x	x	
20A5P03	<u>CC</u>	TG512A22	20A2P04	AA	x	x	x	
20A5P03	<u>C</u>	TG456A22(WHT)	20J2	W		x		
20A5P03	<u>C</u>	TG456A22(WHT)	20J326	<u>E</u>	x		x	
20A5P03	<u>DD</u>	TG513B22	SPLICE		x	x	x	
20A5P03	<u>D</u>	TG456A22(BLU)	20J326	<u>J</u>	x		x	
20A5P03	<u>D</u>	TG456A22(BLU)	20J2	X		x		
20A5P03	<u>EE</u>	TG59B22	20J327	S	x	x	x	
20A5P03	<u>E</u>	TG402A22(WHT)	20J326	Z	x		x	
20A5P03	<u>E</u>	TG402A22(WHT)	20J1	S	x			
20A5P03	<u>F</u>	TG402A22(BLU)	20J1	T		x		
20A5P03	<u>F</u>	TG402A22(BLU)	20J326	D	x		x	
20A5P03	GG	TG54B22	20J327	P	x	x	x	
20A5P03	<u>G</u>	TG404A22(WHT)	20J327	KK	x	x	x	
20A5P03	HH	TG535A22	20A2P03	W	x	x	x	
20A5P03	<u>H</u>	TG404A22(BLU)	20J327	<u>H</u>	x	x	x	
20A5P03	<u>I</u>	TG452A22(WHT)	20J326	X	x		x	
20A5P03	<u>I</u>	TG452A22(WHT)	20J2	S		x		
20A5P03	JJ	TG61B22	20J327	Y	x	x	x	
20A5P03	<u>J</u>	TG452A22(BLU)	20J2	T		x		
20A5P03	<u>J</u>	TG452A22(BLU)	20J326	W	x		x	
20A5P03	KK	TG60B22	20J327	X	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20A5P03	<u>K</u>	TG454A22(WHT)	20J2	U		x		
20A5P03	<u>K</u>	TG454A22(WHT)	20J326	Y	x		x	
20A5P03	LL	TG57B22	20J327	V	x	x	x	
20A5P03	<u>M</u>	TG454A22(BLU)	20J2	V		x		
20A5P03	<u>M</u>	TG454A22(BLU)	20J326	<u>H</u>	x		x	
20A5P03	NN	TG58B22	20J327	N	x	x	x	
20A5P03	<u>N</u>	TG506A22	20A2P03	V	x	x	x	
20A5P03	PP	TG536A22	20A2P03	U	x	x	x	
20A5P03	<u>Q</u>	TG507A22	20A2P03	X	x	x	x	
20A5P03	<u>R</u>	TG508A22	20A2P03	Y	x	x	x	
20A5P03	<u>S</u>	TG509A22	20A2P03	R	x	x	x	
20A5P03	<u>U</u>	TG510A22	20A2P03	T	x	x	x	
20A5P03	<u>Y</u>	TG511A22	20A2P03	N	x	x	x	
20A5P03	<u>Z</u>	TG114A22	END CAP		x	x	x	
20A5P04	<u>AA</u>	TG818A22	20J330	<u>B</u>	x	x	x	
20A5P04	<u>B</u>	TG812A22	20J330	H	x	x	x	
20A5P04	CC	TG819A22	20J330	C	x	x	x	
20A5P04	<u>C</u>	TG813A22	20J330	J	x	x	x	
20A5P04	DD	TG820A22	20J330	<u>E</u>	x	x	x	
20A5P04	<u>D</u>	TG814A22	20J330	K	x	x	x	
20A5P04	E	TG116A22	END CAP		x	x	x	
20A5P04	<u>E</u>	TG815A22	20J330	L	x	x	x	
20A5P04	<u>G</u>	TG816A22	20J330	X	x	x	x	
20A5P04	<u>H</u>	TG802A22	20J330	P	x	x	x	
20A5P04	K	TG803A22	20J330	S	x	x	x	
20A5P04	L	TG804A22	20J330	T	x	x	x	
20A5P04	M	TG821A22	20J330	<u>G</u>	x	x	x	
20A5P04	N	TG822A22	20J330	<u>H</u>	x	x	x	
20A5P04	P	TG823A22	20J330	I	x	x	x	
20A5P04	<u>Q</u>	TG817A22	20J330	<u>E</u>	x			
20A5P04	R	TG836A22	20J330	<u>J</u>	x	x	x	
20A5P04	S	TG805A22	20J330	U	x	x	x	
20A5P04	T	TG806A22	20J330	V	x	x	x	
20A5P04	U	TG807A22	20J330	<u>M</u>	x	x	x	
20A5P04	V	TG808A22	20J330	<u>K</u>	x	x	x	
20A5P04	W	TG801A22	SPLICE		x	x	x	
20A5P04	X	TG809A22	20J330	C	x	x	x	
20A5P04	Y	TG810A22	20J330	D	x	x	x	
20A5P04	Z	TG817A22	20J330	<u>E</u>		x	x	
20A5P04	Z	TG811A22	20J330	F	x	x	x	
20A6P01	<u>B</u>	TG271G20	SPLICE		x	x		
20A6P01	<u>B</u>	TG271H20	SPLICE				x	
20A6P01	<u>D</u>	TG592E22(WHT)	SPLICE		x		x	
20A6P01	<u>D</u>	TG592B22(WHT)	3TB2	B2		x		
20A6P01	E	TG29A22	SHLD		x	x	x	
20A6P01	<u>E</u>	TG592E22(BLU)	SPLICE		x		x	
20A6P01	<u>E</u>	TG592B22(BLU)	3TB2	C3		x		
20A6P01	<u>F</u>	TG199A22	19TB4	D9	x	x	x	
20A6P01	G	TG220A22	20A7P02	Y		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20A6P01	G	TG220A22	20P324	T	x		x	
20A6P01	<u>H</u>	TG221A22	20A7P02	V		X		
20A6P01	<u>H</u>	TG221A22	20P324	U	x		x	
20A6P01	<u>J</u>	TG222A22	20A7P02	M		x		
20A6P01	<u>J</u>	TG222A22	20P324	V	x		x	
20A6P01	K	TG200A22	SPLICE		x		x	
20A6P01	K	TG200A22	19TB4	G10		x		
20A6P01	K	TG205A22(WHT)	20P327	Z	x		x	
20A6P01	L	TG201A22	SPLICE			x		
20A6P01	L	TG201D22	SPLICE		x		x	
20A6P01	M	TG202B22	19TB4	G8	x	x	x	
20A6P01	N	TG203A22	20A5P01	<u>D</u>		x		
20A6P01	N	TG203A22	20P326	A	x		x	
20A6P01	P	TG204A22	20P327	C	x	x	x	
20A6P01	R	TG205A22(WHT)	20P327	N		x		
20A6P01	S	TG205A22(BLU)	20P327	<u>A</u>	x	x	x	
20A6P01	T	TG207A22(WHT)	20P327	<u>B</u>	x	x	x	
20A6P01	U	TG207A22(BLU)	20P327	<u>C</u>	x	x	x	
20A6P01	V	TG209A22(WHT)	20P327	<u>D</u>	x	x	x	
20A6P01	W	TG209A22(BLU)	20P327	<u>E</u>	x	x	x	
20A6P01	X	TG211A22(WHT)	20P327	<u>E</u>	x	x	x	
20A6P01	Y	TG211A22(BLU)	20P327	<u>G</u>	x	x	x	
20A6P01	Z	TG213A22	20P327	D	x	x	x	
20A7P01	<u>A</u>	TG429C22(BLU)	SPLICE			x		
20A7P01	<u>A</u>	TG429E22(BLU)	SPLICE		x		x	
20A7P01	B	TG167A20(WHT)	20A1P03	B		x		
20A7P01	B	TG167B20(WHT)	20J324	<u>X</u>	x		x	
20A7P01	C	TG167A20(ORN)	20A1P03	Z		x		
20A7P01	C	TG167B20(ORN)	20J324	<u>Y</u>	x		x	
20A7P01	D	TG167A20(BLU)	20A1P03	C		x		
20A7P01	D	TG167B20(BLU)	20J324	<u>W</u>	x		x	
20A7P01	<u>D</u>	TG103A22	SHLD		x	x	x	
20A7P01	<u>E</u>	TG545A16(WHT)	16TB1	B10		x		
20A7P01	<u>E</u>	TG545A16(WHT)	20TB1	2	x		x	
20A7P01	F	TG244A22	20A4P01	I		x		
20A7P01	F	TG244B22	20J324	GG	x		x	
20A7P01	<u>G</u>	TG545A16(BLU)	16TB1	B11		x		
20A7P01	<u>G</u>	TG545A16(BLU)	20TB1	4	x		x	
20A7P01	<u>H</u>	TG515A22(WHT)	20A2P01	L	x	x	x	
20A7P01	<u>I</u>	TG547A16(BLU)	16TB1	C11		x		
20A7P01	<u>I</u>	TG547A16(BLU)	20TB1	4	x		x	
20A7P01	J	TG515A22(ORN)	20A2P01	M	x	x	x	
20A7P01	J	TG518A22	20A2P03	<u>J</u>	x	x	x	
20A7P01	K	TG515A22(BLU)	20A2P01	N	x	x	x	
20A7P01	<u>K</u>	TG429C22(ORN)	SPLICE			x		
20A7P01	<u>K</u>	TG429E22(ORN)	SPLICE		x		x	
20A7P01	M	TG566A22	20A2P04	D	x	x	x	
20A7P01	M	T G 4 1 2 H 1 6 N	20J323	U	x		x	

END 1		WIRE No.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20A7P01	<u>M</u>	TG412B16N	20TB3	11		x		
20A7P01	<u>N</u>	TG462B16N	20TB3	12		x		
20A7P01	<u>N</u>	TG462H16N	20J323	T	x		x	
20A7P01	<u>P</u>	TG162A22	20A1J09	X		x		
20A7P01	<u>P</u>	TG475A22(WHT)	20A5P01	A	x	x	x	
20A7P01	<u>P</u>	TG547A16(WHT)	16TB1	C10		x		
20A7P01	<u>P</u>	TG547A16(WHT)	20TB1	2	x		x	
20A7P01	<u>Q</u>	TG549A16(WHT)	16TB1	D10		x		
20A7P01	<u>Q</u>	TG549A16(WHT)	20TB1	3	x		x	
20A7P01	<u>R</u>	TG475A22(BLU)	20A5P01	B	x	x	x	
20A7P01	<u>R</u>	TG549A16(BLU)	16TB1	D11		x		
20A7P01	<u>R</u>	TG549A16(BLU)	20TB1	5	x		x	
20A7P01	<u>S</u>	TG119A20(ORN)	20A1P04	R		x		
20A7P01	<u>S</u>	TG119B20(ORN)	20J324	N	x		x	
20A7P01	<u>S</u>	TG551A16(BLU)	16TB1	E11		x		
20A7P01	<u>S</u>	TG551A16(BLU)	20TB1	5	x		x	
20A7P01	<u>T</u>	TG502A22	20A5P02	P	x	x	x	
20A7P01	<u>T</u>	TG551A16(WHT)	16TB1	E10		x		
20A7P01	<u>T</u>	TG551A16(WHT)	20TB1	3	x		x	
20A7P01	<u>V</u>	A1024A22(WHT)	20A1J53	<u>X</u>		x		
20A7P01	<u>W</u>	A1024A22(BLU)	20A1J53	<u>Y</u>		x		
20A7P01	<u>X</u>	TG119A20(WHT)	20A1P04	<u>V</u>		x		
20A7P01	<u>X</u>	TG119B20(WHT)	20J324	EE	x		x	
20A7P01	<u>Y</u>	TG119A20(BLU)	20A1P04	<u>P</u>		x		
20A7P01	<u>Y</u>	TG119B20(BLU)	20J324	FF	x		x	
20A7P01	<u>Z</u>	TG429C22(WHT)	SPLICE			x		
20A7P01	<u>Z</u>	TG429E22(WHT)	SPLICE		x		x	
20A7P02	<u>A</u>	TG22A22	20A1P06	Y		x		
20A7P02	<u>A</u>	TG22B22	20J324	<u>A</u>	x		x	
20A7P02	<u>A</u>	TG482A22	20A5P01	<u>I</u>	x	x	x	
20A7P02	<u>B</u>	TG21B22	20J324	<u>B</u>	x		x	
20A7P02	<u>B</u>	TG480A22	20A5P01	<u>F</u>	x	x	x	
20A7P02	<u>C</u>	TG150A22	20A5P01	<u>V</u>		x		
20A7P02	<u>C</u>	TG150B22	20J324	<u>N</u>	x		x	
20A7P02	<u>C</u>	TG520A20	20A2P01	<u>n</u>	x	x	x	
20A7P02	<u>D</u>	TG151A22	20A1P05	<u>J</u>		x		
20A7P02	<u>D</u>	TG151B22	20J324	<u>P</u>	x		x	
20A7P02	<u>D</u>	TG478A22	20A5P01	<u>L</u>	x	x	x	
20A7P02	<u>E</u>	TG104A22	END CAP		x	x	x	
20A7P02	<u>E</u>	TG521A20	20A2P01	<u>M</u>	x	x	x	
20A7P02	<u>F</u>	TG149A20	20A1P05	<u>U</u>		x		
20A7P02	<u>F</u>	TG149B20	20J324	<u>M</u>	x		x	
20A7P02	<u>G</u>	TG413C20	20J324	<u>LL</u>	x		x	
20A7P02	<u>G</u>	TG413B20	20J1	<u>T</u>		x		
20A7P02	<u>G</u>	TG522A22	20A2P01	<u>K</u>	x	x	x	
20A7P02	<u>H</u>	TG479A22	20A5P01	<u>M</u>	x	x	x	
20A7P02	<u>I</u>	TG523A16	20A2P01	<u>P</u>	x	x	x	
20A7P02	<u>J</u>	TG332A22	20J324	<u>R</u>	x		x	
20A7P02	<u>J</u>	TG477A22	20A5P01	<u>K</u>	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A7P02	K	A1023A22	20A1J53	T		x		
20A7P02	<u>k</u>	TG524A20	20A2P01	<u>Q</u>	x	x	x	
20A7P02	<u>L</u>	TG322A22	20A16P01	<u>Z</u>		x		
20A7P02	L	TG322B22	20J324	<u>I</u>	x		x	
20A7P02	M	TG222B22	20J324	<u>V</u>	x		x	
20A7P02	<u>M</u>	TG525A22	20A2P01	<u>R</u>	x	x	x	
20A7P02	M	TG222A22	20A6P01	<u>J</u>		x		
20A7P02	<u>N</u>	TG122A22	20A1P04	<u>J</u>		x		
20A7P02	<u>N</u>	TG122B22	20J324	<u>G</u>	x		x	
20A7P02	<u>P</u>	TG76A22	20A1P01	<u>I</u>		x		
20A7P02	<u>P</u>	TG76B22	20J324	<u>D</u>	x		x	
20A7P02	<u>Q</u>	TG78A22	20A1P01	<u>K</u>		x		
20A7P02	<u>Q</u>	TG78B22	20J324	<u>F</u>	x		x	
20A7P02	R	TG463B20	20J2	<u>T</u>		x		
20A7P02	R	TG463C20	20J324	KK	x		x	
20A7P02	<u>R</u>	TG123A22	20A1P04	<u>Z</u>		x		
20A7P02	<u>R</u>	TG123B22	20J324	<u>H</u>	x		x	
20A7P02	S	TG245B20	SPLICE			x		
20A7P02	S	TG245C20	20J324	W	x			
20A7P02	<u>S</u>	TG75B22	20J324	<u>C</u>	x		x	
20A7P02	<u>T</u>	TG247A20	20A4P01	<u>P</u>		x		
20A7P02	<u>T</u>	TG247B20	20J324	<u>Y</u>	x		x	
20A7P02	U	TG324A22	20A16P01	<u>C</u>		x		
20A7P02	U	TG324B22	20J324	<u>K</u>	x		x	
20A7P02	V	TG221A22	20A6P01	<u>H</u>		x		
20A7P02	V	TG221B22	20J324	<u>U</u>	x		x	
20A7P02	W	TG77A20	20A1P01	<u>J</u>		x		
20A7P02	W	TG77B20	20J324	<u>E</u>	x		x	
20A7P02	X	TG323A22	20A16P01	<u>B</u>		x		
20A7P02	X	TG323B22	20J324	<u>J</u>	x	x		
20A7P02	Y	TG220A22	20A6P01	<u>G</u>		x		
20A7P02	Y	TG220B22	20J324	<u>T</u>	x		x	
20A7P02	Z	TG481A16	20A5P01	<u>G</u>	x	x	x	
20A7P03	A	TG172A20	20A1P03	<u>F</u>		x		
20A7P03	A	TG172B20	20J324	<u>U</u>	x		x	
20A7P03	<u>A</u>	TG486A20(BLU)	20A5P01	<u>Q</u>	x	x	x	
20A7P03	<u>B</u>	TG16A22(BLU)	20A1P06	<u>X</u>		x		
20A7P03	<u>B</u>	TG16B22(BLU)	20J324	D	x		x	
20A7P03	<u>C</u>	TG527A22(WHT)	20A2P01	F	x	x	x	
20A7P03	<u>C</u>	TG531A16(BLU)	20A2P01	<u>T</u>	x	x	x	
20A7P03	D	TG527A22(BLU)	20A2P01	<u>G</u>	x	x	x	
20A7P03	<u>D</u>	TG106A22	SHLD		x	x	x	
20A7P03	<u>E</u>	TG16A22(WHT)	20A1P06	B		x		
20A7P03	E	TG16B22(WHT)	20J324	C	x		x	
20A7P03	<u>E</u>	TG160A22(BLU)	20A1J09	<u>J</u>		x		
20A7P02	<u>S</u>	TG75A22	20A1P01	<u>S</u>		x		
20A7P03	<u>E</u>	TG160B22(BLU)	20J324	L	x		x	
20A7P03	<u>F</u>	TG18B22(WHT)	SPLICE			x		
20A7P03	<u>F</u>	TG18C22(WHT)	SPLICE		x		x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20A7P03	G	TG249A16(BLU)	20A4P01	R				
20A7P03	G	TG249B16(BLU)	20J323	R	x		x	
20A7P03	I	TG533A16(BLU)	20A2P01	I	x	x	x	
20A7P03	J	TG320A22(BLU)	20A16P01	Y		x		
20A7P03	J	TG320B22(BLU)	20J324	F	x		x	
20A7P03	K	TG529A22(WHT)	20A2P01	X	x	x	x	
20A7P03	K	TG6A20(BLU)	20A1P11	A		x		
20A7P03	K	TG6B20(BLU)	20J323	M	x			
20A7P03	K	TG6B20(WHT)	20J323	N			x	
20A7P03	L	TG529A22(BLU)	20A2P01	Y	x	x	x	
20A7P03	M	TG18C22(BLU)	SPLICE		x		x	
20A7P03	M	TG6B20(BLU)	20J323	M			x	
20A7P03	M	TG6A20(WHT)	20A1P11	B		x		
20A7P03	M	TG6B20(WHT)	20J323	N	x			
20A7P03	M	TG18B22(BLU)	SPLICE			x		
20A7P03	N	TG18B22(ORN)	SPLICE			x		
20A7P03	N	TG18C22(ORN)	SPLICE		x		x	
20A7P03	P	TG486A20(WHT)	20A5P01	R	x	x	x	
20A7P03	Q	TG531A16(WHT)	20A2P01	S	x	x	x	
20A7P03	R	TG215A22	22A5P1	62		x		
20A7P03	R	TG215B22	20J324	A	x			
20A7P03	R	TG160A22(WHT)	20A1J09	H	x			
20A7P03	R	TG160B22(WHT)	20J324	M	x		x	
20A7P03	S	TG533A16(WHT)	20A2P01	G	x	x	x	
20A7P03	T	TG249A16(WHT)	20A4P01	M		x		
20A7P03	T	TG249B16(WHT)	20J323	P	x		x	
20A7P03	V	TG320A22(WHT)	20A16P01	X		x		
20A7P03	W	TG139A20(WHT)	20A1P05	K		x		
20A7P03	W	TG139B20(WHT)	20J324	G	x		x	
20A7P03	X	TG139A20(BLU)	20A1P05	M		x		
20A7P03	X	TG139B20(BLU)	20J324	H	x		x	
20A7P03	V	TG320B22(WHT)	20J324	E	x		x	
20A7P03	Y	TG311B22	20J324	P	x		x	
20B1J1	A	TG382D22(WHT)	21P1	E	x	x		
20B1J1	A	TG382D22(WHT)	21P3	A			x	
20B1J1	B	TG382D22(BLU)	21P1	F	x	x		
20B1J1	B	TG382D22(BLU)	21P3	B			x	
20B1J1	C	TG380D22(WHT)	21P1	G	x	x		
20B1J1	C	TG380D22(WHT)	21P3	C			x	
20B1J1	D	TG380D22(BLU)	21P1	H	x	x		
20B1J1	D	TG380D22(BLU)	21P3	D			x	
20B1J1	E	TG378D22(WHT)	21P1	I	x	x		
20B1J1	E	TG378D22(WHT)	21P3	E			x	
20B1J1	F	TG378D22(BLU)	21P1	J	x	x		
20B1J1	F	TG378D22(BLU)	21P3	F			x	
20B2J1	A	TG359D22(WHT)	21P2	E	x	x		
20B2J1	A	TG359D22(WHT)	21P4	A			x	
20B2J1	B	TG359D22(BLU)	21P2	F	x	x		
20B2J1	B	TG359D22(BLU)	21P4	B			x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
20B2J1	C	TG357B22(WHT)	21P2	<u>G</u>	x	x		
20B2J1	D	TG357B22(BLU)	21P4	<u>D</u>			x	
20B2J1	D	TG357B22(BLU)	21P2	<u>H</u>	x	x		
20B2J1	C	TG357B22(WHT)	21P4	<u>C</u>			x	
20B2J1	E	TG355D22(WHT)	21P2	<u>I</u>	x	x		
20B2J1	E	TG355D22(WHT)	21P4	<u>E</u>			x	
20B2J1	F	TG355D22(BLU)	21P4	<u>E</u>			x	
20B2J1	F	TG355D22(BLU)	21P2	<u>J</u>	x	x		
20CB1	TOW	P70A12	10K2	<u>A 2</u>		x		
20CB1	PWR							
20CB1		TG4A10	10P1	F	x			
20CB1		TG4A16	16TB	G10		x		
20CB1		TG4B16	16TB	H10		x		
20CB2		A440A18	SPLICE		x	x	x	
20CB2		P70A12	2K4	A2			x	
20CB3	BUS	X2D20	20CB4	(B)			x	
20CB3		TG371A22	3A1P1	<u>E</u>	x	x	x	
20CB4	φA	X18A20	3A1P1	Z	x	x		
20CB4	φA	X1B20	3A1P1	V			x	
20CB4	φA	X1C20	3A1P1	W		x		
20CB4	φA	X5A22	3A1P1	Z			x	
20CB4	φB	X19A20	3A1P1	<u>A</u>	x	x		
20CB4	φB	X2C20	3A1P1	W			x	
20CB4	φB	X2D20	20CB3	BUS			x	
20CB4	φB	X12C20	3A1P1	X	x	x		
20CB4	φB	X6A22	3A1P1	<u>A</u>			x	
20CB4	φC	X20A20	3A1P1	<u>B</u>	x	x		
20CB4	φC	X4C20	20CB5	φC			x	
20CB4	φC	X13C20	3A1P1	Y	x	x		
20CB4	φC	X7A22	3A1P1	<u>H</u>			x	
20CB4	B2	A463A22	18CB2	2		x		
20CB4	2	A464A22	16CB2	1		x		
20CB5	φA	TG429A22	3A1P1	<u>F</u>	x	x	x	
20CB5	φA	X22B22	3A1P1	<u>P</u>		x		
20CB5	φA	X22D22	3A1P1	<u>R</u>	x			
20CB5	φA	X3B20	3A1P1	<u>X</u>			x	
20CB5	φC	X11C20	3A1P1	W	x	x		
20CB5	φC	X23D22	3A1P1	<u>P</u>	x	x		
20CB5	φC	X4C20	20CB4	φC			x	
20CB5	φC	X4B20	3A1J1	Y			x	
20CB5	φC	TG430A22	3A1P1	<u>G</u>	x	x	x	
20CB5	2	X23B22	3A1P1	<u>R</u>		x		
20DS1	A	TG283B22	4A1P1	<u>X</u>	x		x	
20DS1	B	TG332C22	4A1P1	<u>A</u>	x		x	
20DS1	C	TB284B22	19TB4	<u>A</u>			x	
20DS1	C	TG284B22	4A1P1	<u>Y</u>	x			
20DS1	D	TG286B22	4A1P1	X			x	
20DS1	D	TG286B22	4A1P1	Z	x			
20DS1	E	TG287A22N	GND		x		x	

END 1			WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER	
REF.	DES.	PIN		REF.	DES.	PIN	E	M		P
20J1	A		A308B20	SPLICE			X	X		
20J1	A		A3081320	SPLICE					X	
20J1	A		TG410A16(WHT)	20A5P02	S			X		
20J1	A		TG410B16(WHT)	20P326	I		X		X	
20J1	A		A308B20	SPLICE			X	X		
20J1	B		TG583B20N	20TB3	11		X	X	X	
20J1	B		TG410B16(BLU)	20P326	S		X		X	
20J1	C		TG393B22	SPLICE			X	X	X	
20J1	C		TG375A22N	GND			X	X	X	
20J1	D		TG376B22(WHT)	SPLICE			X	X		
20J1	D		TG183C20	SPLICE			X	X	X	
20J1	E		TG376B22(BLU)	SPLICE			X	X	X	
20J1	F		TG373B22(WHT)	SPLICE			X	X	X	
20J1	F		TG226C22	SPLICE			X	X	X	
20J1	G		TG373B22(BLU)	SPLICE			X	X	X	
20J1	G		TG224A22	20A4P01	M		X	X	X	
20J1	H		TG570A22	20A20P1	R				X	
20J1	H		TG227A22	20A4P01	R		X	X	X	
20J1	I		TG225A22	20A4P01	N		X	X	X	
20J1	J		TG265A22	20A4P02	S		X	X	X	
20J1	J		TG37A22	END CAP			X	X	X	
20J1	K		TG396A22(WHT)	20TB3	7		X	X	X	
20J1	K		TG263A22	20A4P02	P		X	X	X	
20J1	L		TG396A22(BLU)	20TB3	8		X	X	X	
20J1	M		TG398A22(WHT)	20TB3	7		X	X	X	
20J1	M		TG266A22	20A4P02	T		X	X	X	
20J1	N		TG398A22(BLU)	20TB3	8		X	X	X	
20J1	N		TG264A22	20A4P02	R		X	X	X	
20J1	P		TG400A22(WHT)	20TB3	7		X	X	X	
20J1	R		TG400A22	20TB3	8		X	X	X	
20J1	S		TG402A22(WHT)	20A5P03	E			X		
20J1	S		TG402B22(WHT)	20P326	Z		X		X	
20J1	S		TG412A16N	20TB3	11		X	X	X	
20J1	T		TG402A22(BLU)	20A5P03	F			X		
20J1	T		TG402B22(BLU)	20P326	D		X		X	
20J1	T		TG413B20	20P324	LL		X		X	
20J1	T		TG413B20	20A7P02	G			X		
20J1	U		TG404B22(WHT)	20P327	KK		X	X	X	
20J1	V		TG404B22(BLU)	20P327	H		X	X	X	
20J1	W		TG406B22(WHT)	20P327	L		X	X	X	
20J1	X		TG406B16(WHT)	20P327	L				X	
20J1	X		TG406B22(BLU)	20P327	M		X	X	X	
20J1	Y		TG408A16(WHT)	20A5P02	N			X		
20J1	Y		TG408B16(WHT)	20P326	G		X		X	
20J1	Z		TG408A16(BLU)	20A5P02	P			X		
20J1	Z		TG408B16(BLU)	20P326	R		X		X	
20J2	A		A308C20	SPLICE			X	X		
20J2	A		A308F20	SPLICE					X	
20J2	A		TG460A16(WHT)	20A5P02	T			X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20J2	A	TG460B16(WHT)	20P326	K	x		x	
20J2	B	TG460A16(BLU)	20A5P02	R		x		
20J2	B	TG584B20N	20TB3	12	x	x	x	
20J2	B	TG460B16(BLU)	20P326	M	x		x	
20J2	C	TG443B22	SPLICE		x	x	x	
20J2	C	TG352A22N	GND		x	x	x	
20J2	D	TG183A20	SPLICE			x		
20J2	D	TG353B22(WHT)	SPLICE		x	x	x	
20J2	D	TG183E20	SPLICE		x		x	
20J2	E	TG353B22(BLU)	SPLICE		x	x	x	
20J2	E	TG350B22(WHT)	SPLICE		x	x	x	
20J2	F	TG231A22	20A4P01	V	x	x	x	
20J2	F	TG350B22(BLU)	SPLICE		x	x	x	
20J2	G	TG229A22	20A4P01		x	x	x	
20J2	G	TG571A22	20A20P2	T			x	
20J2	H	TG230A22	20A4P01	N	x	x	x	
20J2	H	TG228A22	20A4P01	U	x	x	x	
20J2	I	TG94A22	SHLD	S	x	x	x	
20J2	J	TG270A22	20A4P02		x	x	x	
20J2	J	TG446A22(WHT)	20TB3	X	x	x	x	
20J2	K	TG268A22	20A4P02	4	x	x	x	
20J2	K	TG446A22(BLU)	20TB3	V	x	x	x	
20J2	L	TG448A22(WHT)	20TB3	5	x	x	x	
20J2	M	TG269A22	20A4P02	4	x	x	x	
20J2	M	TG448A22(BLU)	20TB3	W	x	x	x	
20J2	N	TG267A22	20A4P02	5	x	x	x	
20J2	N	TG450A22(WHT)	20TB3	U	x	x	x	
20J2	P	TG450A22(BLU)	20TB3	4	x	x	x	
20J2	R	TG452A22(WHT)	20A5P03	5	x	x	x	
20J2	S	TG452B22(WHT)	20P326	I	x		x	
20J2	S	TG462A16N	20TB3	X	x	x	x	
20J2	T	TG452A22(BLU)	20A5P03	12		x		
20J2	T	TG452B22(BLU)	20P326	J	x		x	
20J2	T	TG463B20	20A7P02	W		x		
20J2	T	TG463B20	20P324	R	x		x	
20J2	U	TG454A22(WHT)	20A5P03	<K		x		
20J2	U	TG454B22(WHT)	20P326	K	x		x	
20J2	V	TG454A22(BLU)	20A5P03	L		x		
20J2	V	TG454B22(BLU)	20P326	M	x		x	
20J2	W	TG456A22(WHT)	20A5P03	N		x		
20J2	W	TG456B22(WHT)	20P326	O	x		x	
20J2	W	TG456A22(BLU)	20A5P03	P		x		
20J2	X	TG456B22(BLU)	20P326	Q	x		x	
20J2	Y	TG458A16(WHT)	20A5P02	R		x		
20J2	Y	TG458B16(WHT)	20P326	S	x		x	
20J2	Z	TG458A16(BLU)	20A5P02	T		x		
20J2	Z	TG458B16(BLU)	20P326	U	x		x	
20J237	A	A440C18	SPLICE	V	x	x	x	
20J237	B	A441A18N	GND	W	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20J323	A	TG18616(WHT)	SPLICE		X		X	
20J323	B	TG18B16(ORN)	SPLICE		X		X	
20J323	C	TG18B16(BLU)	SPLICE		X		X	
20J323	M	TG6B20(BLU)	20A7P03	M			X	
20J323	M	TG6B20(BLU)	20A7P03	K	X			
20J323	N	TG6B20(WHT)	20A7P03	K			X	
20J323	N	TG6B20(WHT)	20A7P03	M	X			
20J323	P	TG249B16(WHT)	20A7P03	T	X		X	
20J323	T	TG462H16N	20A7P01	N	X		X	
20J323	R	TG249B16(BLU)	20A7P03	G	X		X	
20J323	U	TG412H16N	20A7P01	M	X		X	
20J324	H	TG139B20(BLU)	20A7P03	X	X		X	
20J324	A	TG215B22	20A7P03	R	X			
20J324	A	TG22B22	20A7P02	A	X		X	
20J324	AA	TG429C22(ORN)	SPLICE		X		X	
20J324	BB	TG429C22(BLU)	SPLICE		X		X	
20J324	B	TG21B22	20A7P02	B	X		X	
20J324	C	TG16B22(WHT)	20A7P03	E	X		X	
20J324	C	TG75B22	20A7P02	S	X		X	
20J324	D	TG16B22(BLU)	20A7P03	B	X		X	
20J324	D	TG76B22	20A7P02	P	X		X	
20J324	E	TG320B22(WHT)	20A7P03	V	X		X	
20J324	EE	TG119B20(WHT)	20A7P01	X	X		X	
20J324	E	TG77B20	20A7P02	W	X		X	
20J324	F	TG320B22(BLU)	20A7P03	J	X		X	
20J324	FF	TG119B20	20A7P01	Y	X		X	
20J324	F	TG78B22	20A7P02	Q	X		X	
20J324	G	TG139B20(WHT)	20A7P03	W	X		X	
20J324	GG	TG244B22	20A7P01	F	X		X	
20J324	G	TG122B22	20A7P02	N	X		X	
20J324	H	TG123B22	20A7P02	R	X		X	
20J324	I	TG322B22	20A7P02	L	X		X	
20J324	JJ	TG68B22	END CAP		X		X	
20J324	J	TG323B22	20A7P02	X	X		X	
20J324	KK	TG463C20	20A7P02	R	X		X	
20J324	K	TG324B22	20A7P02	U	X		X	
20J324	L	TG160B22(BLU)	20A7P03	E	X		X	
20J324	LL	TG413C20	20A7P02	G	X		X	
20J324	M	TG149B20	20A7P02	F	X		X	
20J324	M	TG160B22(WHT)	20A7P03	R	X		X	
20J324	N	TG119B20(ORN)	20A7P01	S	X		X	
20J324	N	TG150B22	20A7P02	C	X		X	
20J324	P	TG311B22	20A7P03	Y	X		X	
20J324	P	TG151B22	20A7P02	D	X		X	
20J324	R	TG39B22	SHLD		X		X	
20J324	R	TG332A22	20A7P02	J	X		X	
20J324	S	TG41B22	END CAP		X		X	
20J324	T	TG220B22	20A7P02	Y	X		X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20J324	U	TG221B22	20A7P02	V	x		x	
20J324	<u>U</u>	TG172B20	20A7P03	A	x		x	
20J324	V	TG222B22	20A7P02	M	x		x	
20J324	<u>V</u>	TG52B22	SHLD		x		x	
20J324	W	TG245B20	20A7P02	S			x	
20J324	W	TG245C20	20A7P02	S	x			
20J324	<u>W</u>	TG167B20(BLU)	20A7P01	D	x		x	
20J324	X	TG167B20(WHT)	20A7P01	B	x		x	
20J324	Y	TG247B20	20A7P02	T	x		x	
20J324	<u>Y</u>	TG167B20(ORN)	20A7P01	C	x		x	
20J324	Z	TG429C22(WHT)	SPLICE		x		x	
20J325	A	TG368F22	20A2P03	J	x		x	
20J325	AA	TG862B22	20A2P02	A	x		x	
20J325	<u>A</u>	TG299B22(BLU)	20A2P04	Y	x		x	
20J325	B	TG369F22	20A2P03	K	x		x	
20J325	BB	TG162B22	20A2P01	P	x		x	
20J325	<u>B</u>	TG299B22(WHT)	20A2P04	X	x		x	
20J325	C	TG1B22	20A2P03	<u>B</u>	x		x	
20J325	CC	TG591D22(BLU)	20A2P01	S	x		x	
20J325	<u>C</u>	TG115B22(WHT)	20A2P02	D	x		x	
20J325	D	TG2B22	20A2P03	<u>C</u>	x		x	
20J325	DD	TG591D22(WHT)	20A2P01	R	x		x	
20J325	<u>D</u>	TG115B22(BLU)	20A2P02	E	x		x	
20J325	E	TG3B22	20A2P03	<u>D</u>	x		x	
20J325	EE	TG591D22(ORN)	20A2P01	T	x		x	
20J325	<u>E</u>	TG117B22(BLU)	20A2P02	HH	x		x	
20J325	F	TG28B22(WHT)	20A2P02	<u>A</u>	x		x	
20J325	FF	TG863B22	20A2P02	B	x		x	
20J325	<u>F</u>	TG117B22(WHT)	20A2P02	GG	x		x	
20J325	G	TG28B22(BLU)	20A2P02	<u>B</u>	x		x	
20J325	GG	TG864B22	20A2P02	C	x		x	
20J325	<u>G</u>	TG127D22(WHT)	20A2P02	Z	x		x	
20J325	H	TG30B22(WHT)	20A2P02	Y	x		x	
20J325	HH	TG129D22(BLU)	20A2P02	I	x		x	
20J325	<u>H</u>	TG127D22(BLU)	20A2P02	AA	x		x	
20J325	I	TG131D22(WHT)	20A2P02	<u>X</u>	x		x	
20J325	J	TG30B22(BLU)	20A2P02	Z	x		x	
20J325	JJ	TG367D22	20A2P01	<u>D</u>	x		x	
20J325	<u>J</u>	TG131D22(ORN)	20A2P02	Y	x		x	
20J325	K	TG131D22(BLU)	20A2P02	W	x		x	
20J325	LL	TG70B22	END CAP		x		x	
20J325	M	TG67B22(BLU)	20A2P02	K	x		x	
20J325	mm	TG85B22	END CAP		x		x	
20J325	<u>M</u>	TG134B22(WHT)	20A2P02	F	x		x	
20J325	N	TG67B22(WHT)	20A2P02	J	x		x	
20J325	NN	TG366D22	20A2P01	<u>B</u>	x		x	
20J325	<u>N</u>	TG134B22(BLU)	20A2P02	H	x		x	
20J325	P	TG69B22(BLU)	20A2P02	<u>M</u>	x		x	
20J325	PP	TG73B22	END CAP		x		x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20J325	P	TG134B22(ORN)	20A2P02	G				
20J325	Q	TG66B22	20A2P02	V	x		x	
20J325	R	TG69B22(WHT)	20A2P02	L	x		x	
20J325	R	TG71B22	20A2P02	U	x		x	
20J325	S	TG72D22(BLU)	20A2P02	X	x		x	
20J325	S	TG74B22	20A2P02	T	x		x	
20J325	T	TG72D22(WHT)	20A2P02	W	x		x	
20J325	T	TG137D22(WHT)	20A2P02	BB	x		x	
20J325	U	TG107B22(BLU)	20A2P02	S	x		x	
20J325	U	TG137D22(BLU)	20A2P02	CC	x		x	
20J325	V	TG107B22(WHT)	20A2P02	R	x		x	
20J325	V	TG129D22(WHT)	20A2P02	J	x		x	
20J325	W	TG109B22(WHT)	20A2P02	DD	x		x	
20J325	W	TG129D22(ORN)	20A2P02	K	x		x	
20J325	X	TG109B22(BLU)	20A2P02	EE	x		x	
20J325	X	TG865B22	20A2P02	D	x		x	
20J325	Y	TG111B22(WHT)	20A2P02	O	x		x	
20J325	Y	TG337B22	20A2P01	r	x		x	
20J325	Z	TG111B22(BLU)	20A2P02	R	x		x	
20J326	A	TG203B22	20A5P01	p	x		x	
20J326	A	TG281D22	20A5P01	p	x		x	
20J326	A	TG420B16(WHT)	20A5P02	A	x		x	
20J326	B	TG95B22	SHLD	I	x		x	
20J326	C	TG239A20	20A5P01	U	x		x	
20J326	C	TG97B22	SHLD		x		x	
20J326	D	TG402A22(BLU)	20A5P03	F	x		x	
20J326	D	TG801C22	SPLICE		x		x	
20J326	E	TG278B22	20A5P01	T	x		x	
20J326	E	TG423B16(WHT)	20A5P02	Z	x		x	
20J326	F	TG513C22	SPLICE		x		x	
20J326	F	TG456A22(WHT)	20A5P03		x		x	
20J326	G	TG279B20	20A5P01	U	x		x	
20J326	G	TG408A16(WHT)	20A5P02	B	x		x	
20J326	H	TG454A22(BLU)	20A5P03	N	x		x	
20J326	I	TG410A16(WHT)	20A5P02	E	x		x	
20J326	J	TG240B22	20A5P02	S	x		x	
20J326	J	TG456A22(BLU)	20A5P03	V	x		x	
20J326	K	TG241B22	20A5P02	D	x		x	
20J326	K	TG460A16(WHT)	20A5P02	E	x		x	
20J326	L	TG242B22	20A5P02	T	x		x	
20J326	M	TG243B22	20A5P02	H	x		x	
20J326	M	TG460A16(BLU)	20A5P02	J	x		x	
20J326	N	TG280B22	20A5P02	R	x		x	
20J326	N	TG458A16(WHT)	20A5P02	L	x		x	
20J326	P	TG79B22	20A5P02	O	x		x	
20J326	P	TG420B16(BLU)	20A5P02	K	x		x	
20J326	Q	TG423B16(BLU)	20A5P02	M	x		x	
20J326	R	TG408A16(BLU)	20A5P02	P	x		x	
20J326	R	TG80D22	20A5P02	W	x		x	

END 1		WIRE NO	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20J326	S	TG81D22	20A5P02	B	X		X	
20J326	<u>S</u>	TG410A16(BLU)	20A5P02	I	X		X	
20J326	T	TG82D22	20A5P02	D	X		X	
20J326	<u>T</u>	TG458A16(BLU)	20A5P02	G	X		X	
20J326	U	TG83D22	20A5P02	F	X		X	
20J326	V	TG173B22	20A5P02	C	X		X	
20J326	W	TG452A22(BLU)	20A5P03	J	X		X	
20J326	X	TG452A22(WHT)	20A5P03	I	X		X	
20J326	Y	TG454A22(WHT)	20A5P03	K	X		X	
20J326	Z	TG402A22(WHT)	20A5P03	E	X		X	
20J327	A	TG276B22	20A5P01	V	X	X	X	
20J327	AA	TG435B22(BLU)	20A2P04	V	X		X	
20J327	AA	TG435B22(ORN)	20A2P04	V		X		
20J327	<u>A</u>	TG205B22(BLU)	20A2P04	J	X	X	X	
20J327	<u>BB</u>	TG435B22(BLU)	20A2P04	W		X		
20J327	BB	TG435B22(ORN)	20A2P04	W	X		X	
20J327	<u>B</u>	TG207B22(WHT)	20A2P04	K	x	x	x	
20J327	<u>C</u>	TG204B22	SPLICE		x	x	x	
20J327	CC	TG272B22	20A2P04	U	x	x	x	
20J327	<u>C</u>	TG207B22(BLU)	20A2P04	M	x	x	x	
20J327	<u>D</u>	TG213B22	20A2P01	F	x	x	x	
20J327	DD	TG273B22	20A2P04	I	x	x	x	
20J327	<u>D</u>	TG209B22(WHT)	20A2P04	N	x	x	x	
20J327	<u>E</u>	TG338B22(WHT)	20A2P01	J	x	x	x	
20J327	EE	TG274B22	20A2P04	V	x	x	x	
20J327	<u>E</u>	TG209B22(BLU)	20A2P04	P	x	x	x	
20J327	<u>F</u>	TG338B22(BLU)	20A2P01	K	x	x	x	
20J327	FF	TG275B22	20A2P04	W	x	x	x	
20J327	<u>F</u>	TG211B22(WHT)	20A2P04	Q	x	x	x	
20J327	<u>GG</u>	TG303B22	20A2P04	B	x	x	x	
20J327	<u>G</u>	TG211B22(BLU)	20A2P04	R	x	x	x	
20J327	<u>HH</u>	TG304B22	20A2P04	C	x	x	x	
20J327	<u>H</u>	TG404A22(BLU)	20A5P03	h	x	x	x	
20J327	J	TG113B22(BLU)	20A2P02	T	x	x	x	
20J327	JJ	TG305B22	20A2P04	D	x	x	x	
20J327	<u>J</u>	TG301B22(BLU)	20A2P04	A	x	x	x	
20J327	<u>K</u>	TG113B22(WHT)	20A2P02	S	x	x	x	
20J327	KK	TG404A22(WHT)	20A5P03	G	x	x	x	
20J327	<u>K</u>	TG301B22(WHT)	20A2P04	Z	x	x	x	
20J327	<u>L</u>	TG406A22(WHT)	20A5P03	A	x	x	x	
20J327	LL	TG93B22	END CAP			x		
20J327	LL	TG98B22	END CAP		x		x	
20J327	M	TG406A22(BLU)	20A5P03	B	x	x	x	
20J327	MM	TG91B22	END CAP		x	x	x	
20J327	<u>M</u>	TG309B22(BLU)	20A2P04	H	x	x	x	
20J327	<u>N</u>	TG58B22	20A5P03	NN	x	x	x	
20J327	NN	TG271F20	20A2P04	G	x	x	x	
20J327	<u>N</u>	TG309B22(WHT)	20A2P04	G	x	x	x	
20J327	P	TG54B22	20A5P03	GG	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	F	M	P	
20J327	PP A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	TG92B22	END CAP	N P L E M A A E B B F L L F R K K S J J T I U S C R G G T Z V H G U F F D D E E A B Y G H Z J W X M K A	X	X	X	
20J327		TG340D22(WHT)	20A2P04		X	X	X	
20J327		TG340D22(BLU)	20A2P04		X	X	X	
20J327		TG342D22(WHT)	20A2P04		X	X	X	
20J327		TG59B22	20A5P03		X	X	X	
20J327		TG342D22(BLU)	20A2P04		X	X	X	
20J327		TG53B22	20A5P03		X	X	X	
20J327		TG306B22(WHT)	20A2P04		X	X	X	
20J327		TG55B22	20A5P03		X	X	X	
20J327		TG306B22(ORN)	20A2P04		X	X	X	
20J327		TG57B22	20A5P03		X	X	X	
20J327		TG306B22(BLU)	20A2P04		X	X	X	
20J327		TG432B22(WHT)	20A2P04		X	X	X	
20J327		TG60B22	20A5P03		X	X	X	
20J327		TG432B22(BLU)	20A2P04		X	X	X	
20J327		TG61B22	20A5P03		X	X	X	
20J327		TG432B22(ORN)	20A2P04		X	X	X	
20J327		TG205B22(WHT)	20A2P04		X	X	X	
20J327		TG435B22(WHT)	20A2P04		X	X	X	
20J328		TG96B22(BLU)	20A2P03		X		X	
20J328		TG12B16(WHT)	20A2P01		X		X	
20J328		TG96B22(WHT)	20A2P03		X		X	
20J328		TG64B22	20A2P03		X		X	
20J328		TG96B22(ORN)	20A2P03		X		X	
20J328		TG14B16(WHT)	20A2P01		X		X	
20J328		TG105B22(BLU)	20A2P03		X		X	
20J328		TG860B22(BLU)	20A2P02				X	
20J328		TG860B22(BLU)	20A2P02		X			
20J328		TG105B22(WHT)	20A2P03		X		X	
20J328		TG102B16(BLU)	SPLICE		X		X	
20J328		TG99B20(ORN)	20A2P03		X		X	
20J328		TG101B22	SHLD		X		X	
20J328		TG99B20(WHT)	20A2P03		X		X	
20J328		TG102B16(WHT)	SPLICE		X		X	
20J328		TG99B20(BLU)	20A2P03		X		X	
20J328		TG568B20(BLU)	20A2P01		X		X	
20J328		TG568B20(WHT)	20A2P01		X		X	
20J328		TG23B22(WHT)	20A2P03		X		X	
20J328		TG860B22(WHT)	20A2P02				X	
20J328		TG860B22(WHT)	20A2P02		X			
20J328		TG23B22(BLU)	20A2P03		X		X	
20J328		TG148B22	20A2P04		X		X	
20J328		TG25B22(WHT)	20A2P03		X		X	
20J328		TG25B22(BLU)	20A2P03		X		X	
20J328		TG319B22	20A2P04		X		X	
20J328		TG178B22(BLU)	20A2P03		X		X	
20J328		TG100B22	SHLD		X		X	
20J328		TG178B22(WHT)	20A2P03		X		X	
20J328		TG14B16(BLU)	20A2P01		X		X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20J328	Q	TG102B16(ORN)	SPLICE	Q S P H N I H G E E	x		x	
20J328	R	TG180B22(ORN)	20A2P03		x		x	
20J328	R	TG163B22(WHT)	20A2P04		x		x	
20J328	S	TG180B22(BLU)	20A2P03		x		x	
20J328	S	TG163B22(BLU)	20A2P04		x		x	
20J328	T	TG180B22(WHT)	20A2P03		x		x	
20J328	U	TG174B20(BLU)	20A2P03		x		x	
20J328	V	TG174B20(WHT)	20A2P03		x		x	
20J328	W	TG174B20(ORN)	20A2P03		x		x	
20J328	X	TG62B22	20A2P03		x		x	
20J328	Z	TG12B16(BLU)	20A2P01		x		x	
20J330	A	TG429D22(ORN)	SPLICE	AA X CC Y	x	x	x	
20J330	B	TG801B22	SPLICE		x	x	x	
20J330	B	TG818A22	20A5P04		x	x	x	
20J330	C	TG809A22	20A5P04		x	x	x	
20J330	C	TG819A22	20A5P04		x	x	x	
20J330	D	TG810A22	20A5P04		x	x	x	
20J330	D	TG499C22	SPLICE		x	x	x	
20J330	E	TG128A22	END CAP		x	x	x	
20J330	E	TG820A22	20A5P04		x	x	x	
20J330	F	TG811A22	20A5P04		x	x	x	
20J330	F	TG817A22	20A5P04		x			
20J330	F	TG817A22	20A5P04			x	x	
20J330	G	TG821A22	20A5P04	Z Q Z M B N P C R D V E U	x	x	x	
20J330	H	TG812A22	20A5P04		x	x	x	
20J330	H	TG822A22	20A5P04		x	x	x	
20J330	I	TG823A22	20A5P04		x	x	x	
20J330	J	TG813A22	20A5P04		x	x	x	
20J330	J	TG836A22	20A5P04		x	x	x	
20J330	K	TG814A22	20A5P04		x	x	x	
20J330	K	TG808A22	20A5P04		x	x	x	
20J330	L	TG815A22	20A5P04		x	x	x	
20J330	M	TG807A22	20A5P04		x	x	x	
20J330	N	TG489C22	SPLICE		x	x	x	
20J330	N	TG494C22	SPLICE		x	x	x	
20J330	P	TG802A22	20A5P04	H	x	x	x	
20J330	P	TG495C22	SPLICE		x	x	x	
20J330	Q	TG496C22	SPLICE		x	x	x	
20J330	R	TG490C22	SPLICE		x	x	x	
20J330	R	TG497C22	SPLICE		x	x	x	
20J330	S	TG803A22	20A5P04		x	x	x	
20J330	T	TG804A22	20A5P04		x	x	x	
20J330	U	TG805A22	20A5P04		x	x	x	
20J330	V	TG806A22	20A5P04		x	x	x	
20J330	W	TG438B22	16TB1			x		
20J330	W	TG438B22	20TB1		x		x	
20J330	X	TG816A22	20A5P04	G	x	x	x	
20J330	Y	TG429D22(WHT)	SPLICE		x	x	x	
20J330	Z	TG429D22(BLU)	SPLICE		x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20J331	<u>A</u>	TG378C22	SPLICE		X			
20J331	<u>AA</u>	TG443D22	SPLICE		X	X	X	
20J331	<u>B</u>	TG127C22(WHT)	SPLICE		X	X	X	
20J331	<u>B</u>	TG382C22	SPLICE		X	X	X	
20J331	<u>CC</u>	TG127C22(BLU)	SPLICE		X	X	X	
20J331	<u>C</u>	TG355C22	SPLICE		X	X	X	
20J331	<u>DD</u>	TG137C22(WHT)	SPLICE		X	X	X	
20J331	<u>D</u>	TG359C22	SPLICE		X	X	X	
20J331	<u>E</u>	TG35A22	END CAP		X	X	X	
20J331	<u>EE</u>	TG137C22(BLU)	SPLICE		X	X	X	
20J331	<u>E</u>	TG856A22	20A20P2	C	X	X	X	
20J331	<u>FF</u>	TG72C22(WHT)	SPLICE		X	X	X	
20J331	<u>F</u>	TG350C22(WHT)	SPLICE		X	X	X	
20J331	<u>G</u>	TG365C22	SPLICE		X	X	X	
20J331	<u>GG</u>	TG72C22(BLU)	SPLICE		X	X	X	
20J331	<u>G</u>	TG350C22(BLU)	SPLICE		X	X	X	
20J331	<u>H</u>	TG371C22(WHT)	SPLICE		X	X		
20J331	<u>H</u>	TG376C22(WHT)	SPLICE		X	X	X	
20J331	<u>I</u>	TG376C22(BLU)	SPLICE		X	X	X	
20J331	<u>J</u>	TG371C22(BLU)	SPLICE		X	X	X	
20J331	<u>J</u>	TG353C22(WHT)	SPLICE		X	X	X	
20J331	<u>K</u>	TG353C22(BLU)	SPLICE		X	X	X	
20J331	<u>K</u>	TG594E22(WHT)	SPLICE		X		X	
20J331	<u>K</u>	TG594E22(WHT)	3TB2	A4		X		
20J331	<u>L</u>	TG594E22(BLU)	SPLICE		X		X	
20J331	<u>L</u>	TG594E22(BLU)	3TB2	C5		X		
20J331	<u>M</u>	TG145C22(WHT)	SPLICE		X	X	X	
20J331	<u>N</u>	TG850A22	20A20P1	A	X	X	X	
20J331	<u>N</u>	TG145C22(BLU)	SPLICE		X	X	X	
20J331	<u>P</u>	TG389C22N	SPLICE		X	X	X	
20J331	<u>O</u>	TG141C22(WHT)	SPLICE		X	X	X	
20J331	<u>O</u>	TG141C22(BLU)	SPLICE		X	X	X	
20J331	<u>R</u>	TG851A22	20A20P1	B	X	X	X	
20J331	<u>R</u>	TG855A22	20A20P2	B	X	X	X	
20J331	<u>S</u>	TG373C22(WHT)	SPLICE		X	X	X	
20J331	<u>S</u>	TG591C22(ORN)	SPLICE		X		X	
20J331	<u>S</u>	TG591C22(ORN)	3TB2	E3		X		
20J331	<u>T</u>	TG373C22(BLU)	SPLICE		X	X	X	
20J331	<u>T</u>	TG591C22(BLU)	SPLICE		X		X	
20J331	<u>T</u>	TG591C22(BLU)	3TB2	C1		X		
20J331	<u>U</u>	TG366C22	SPLICE		X	X	X	
20J331	<u>U</u>	TG591C22(WHT)	SPLICE		X		X	
20J331	<u>U</u>	TG591C22(WHT)	3TB2	E2		X		
20J331	<u>V</u>	TG367C22	SPLICE		X	X	X	
20J331	<u>V</u>	TG271C20	SPLICE		X	X	X	
20J331	<u>W</u>	TG853A22	20A20P1	C	X	X	X	
20J331	<u>W</u>	TG578C22N	SPLICE		X	X	X	
20J331	<u>X</u>	TG384C22	SPLICE		X	X	X	
20J331	<u>X</u>	TG368C22	SPLICE		X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20J331	Y	TG854A22	20A20P2	A	X	X	X	
20J331	<u>Y</u>	TG369C22	SPLICE		X	X	X	
20J331	<u>Z</u>	TG361C22	SPLICE		X	X	X	
20J331	<u>Z</u>	TG393D22	SPLICE		X	X	X	
20J332	<u>AA</u>	TG239C20	SPLICE		X	X	X	
20J332	<u>A</u>	TG83C22	SPLICE		X	X	X	
20J332	<u>B</u>	A146B22(WHT)	SPLICE				X	
20J332	<u>B</u>	A265C22(WHT)	SPLICE		X	X		
20J332	<u>C</u>	A146B22(BLU)	SPLICE		X		X	
20J332	<u>C</u>	A265C22(BLU)	SPLICE		X	X		
20J332	<u>D</u>	TG90A22(WHT)	20A1P05	A	X	X	X	
20J332	<u>D</u>	A148B22(WHT)	SPLICE				X	
20J332	<u>D</u>	A267C22(WHT)	SPLICE		X	X		
20J332	E	TG50A22	END CAP		X	X	X	
20J332	EE	TG200B22	SPLICE		X		X	
20J332	EE	TG200B22	19TB4	A10		X		
20J332	<u>E</u>	A148B22(BLU)	SPLICE				X	
20J332	<u>E</u>	A267C22(BLU)	SPLICE		X	X		
20J332	F	TG834A22	20A1P02	D	X	X	X	
20J332	FF	T G 2 5 1 C 2 2	SPLICE		X	X	X	
20J332	F	A147B22(WHT)	SPLICE				X	
20J332	E	A266C22(BLU)	SPLICE		X			
20J332	E	A266C22(WHT)	SPLICE			X		
20J332	G	TG833A22	20A1P02	G	X	X	X	
20J332	GG	TG90A22(ORN)	20A1P05	R	X	X	X	
20J332	G	A147B22(BLU)	SPLICE				X	
20J332	<u>G</u>	A266C22(BLU)	SPLICE			X		
20J332	<u>G</u>	A266C22(WHT)	SPLICE		X			
20J332	H	TG832A22	20A1P02	H	X	X	X	
20J332	HH	TG90A22(BLU)	20A1P05	S	X	X	X	
20J332	<u>H</u>	TG38C22(WHT)	SPLICE		X	X	X	
20J332	I	TG38C22(BLU)	SPLICE		X	X	X	
20J332	J	TG831A22	20A1P02	J	X	X	X	
20J332	J J	TG131B22(WHT)	SPLICE		X	X	X	
20J332	<u>J</u>	TG36C22(WHT)	SPLICE		X	X	X	
20J332	K	TG129C22(ORN)	SPLICE		X	X	X	
20J332	KK	TG131B22(ORN)	SPLICE		X	X	X	
20J332	<u>K</u>	TG36C22(BLU)	SPLICE		X	X	X	
20J332	L	TG129C22(BLU)	SPLICE		X	X	X	
20J332	L L	TG131B22(BLU)	SPLICE		X	X	X	
20J332	M	TG129C22(WHT)	SPLICE		X	X	X	
20J332	M M	A440B18	SPLICE		X		X	
20J332	<u>M</u>	TG40C22(WHT)	SPLICE		X	X	X	
20J332	U	TG825A22	20A1P02	C	X	X	X	
20J332	N	TG830A22	20A1P02	B	X	X	X	
20J332	NN	A158C22	19TB4	K2	X	X		
20J332	NN	A212B20	SPLICE				X	
20J332	<u>N</u>	TG40C22(BLU)	SPLICE		X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20J332	P	TG829A22	20A1P02	A		X		
20J332	PP	TG201C22	19TB4	D8	X	X	X	
20J332	P	A129B22(WHT)	SPLICE				X	
20J332	P	A159D22(WHT)	SPLICE		X	X		
20J332	Q	A129B22(BLU)	SPLICE				X	
20J332	Q	A159D22(BLU)	SPLICE		X			
20J332	R	TG828A22	20A1P02	R	X	X	X	
20J332	R	A130B22(WHT)	SPLICE				X	
20J332	R	A157D22(WHT)	SPLICE		X	X		
20J332	S	TG827A22	20A1P02	S	X	X	X	
20J332	S	A130B22(BLU)	SPLICE				X	
20J332	S	A157D22(BLU)	SPLICE		X	X		
20J332	T	TG826A22	20A1P02	P	X	X	X	
20J332	V	TG824A22	20A1P02	V	X	X	X	
20J332	V	TG342C22(WHT)	SPLICE		X	X	X	
20J332	W	TG594D22(WHT)	SPLICE		X	X	X	
20J332	W	TG340C22(WHT)	SPLICE		X	X	X	
20J332	X	TG594D22(BLU)	BLANK		X	X	X	
20J332	X	TG342C22(BLU)	SPLICE		X	X	X	
20J332	Y	TG81C22	SPLICE		X	X	X	
20J332	Y	TG340C22(BLU)	SPLICE		X	X	X	
20J332	Z	TG82C22	SPLICE		X	X	X	
20J332	Z	TG80C22	SPLICE		X	X	X	
20K1	X2	TG210A22N	GND		X			
20K94	A1	TG245D20	SPLICE		X			
20L1P1	A	TG370A22	1XK5	A2	X	X	X	
20L1P1	B	TG572A22N	GND		X	X	X	
20L2P1	A	TG384D22(WHT)	21P1	K	X	X		
20L2P1	A	TG384D22(WHT)	21P3	N			X	
20L2P1	A	TG384D22(BLU)	21P3	P			X	
20L2P1	B	TG384D22(BLU)	21P1	N	X	X		
20L3P1	A	TG361D22(WHT)	21P2	K	X	X		
20L3P1	A	TG361D22(WHT)	21P4	N			X	
20L3P1	B	TG361D22(BLU)	21P2	N	X	X		
20L3P1	B	TG361D22(BLU)	21P4	P			X	
20P1	A	A308E20	20P8J01	A	X	X	X	
20P1	A	TG308E20	20P8J01	A		X		
20P1	A	TG410C20(WHT)	SPLICE		X	X	X	
20P1	B	TG583A20N	20P8J01	E	X	X	X	
20P1	B	TG410C20(BLU)	SPLICE		X	X	X	
20P1	C	TG393A22	20P8J01	C	X	X	X	
20P1	C	TG375B22N	20A11P1	9	X	X	X	
20P1	D	TG376B22(WHT)	SPLICE				X	
20P1	D	TG376D22(WHT)	20A11P1	4	X	X	X	
20P1	D	TG183D20	20P8J01	C	X	X	X	
20P1	E	TG376D22(BLU)	20A11P1	3	X	X	X	
20P1	F	TG373D22(WHT)	20A11P1	1	X	X	X	
20P1	F	TG226D22	20P8J01	F	X	X	X	
20P1	G	TG373D22(BLU)	20A11P1	2	X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	F	M	P	
20P1	G	TG224B22	20P8J01	G	x	x	x	
20P1	H	TG570B22	20A11P1	8	x		x	
20P1	H	TG227B22	20P8J01	H	x	x	x	
20P1	I	TG413A20	20P8J01	I	x	x	x	
20P1	I	TG225B22	20P8J01	I	x	x	x	
20P1	J	TG37B22	SHLD	J	x	x	x	
20P1	J	TG265B22	20P8J01	J	x	x		
20P1	K	TG396B22(WHT)	20P8J01	K	x	x	x	
20P1	K	TG263B22	20P8J01	K	x	x	x	
20P1	L	TG396B22(BLU)	20P8J01	L	x	x	x	
20P1	M	TG398B22(WHT)	20P8J01	M	x	x	x	
20P1	M	TG266B22	20P8J01	M	x	x	x	
20P1	N	TG264B22	20P8J01	N	x	x	x	
20P1	N	TG398B22(BLU)	20P8J01	N	x	x	x	
20P1	P	TG400B22(WHT)	20P8J01	P	x	x	x	
20P1	R	TG400B22(BLU)	20P8J01	R	x	x	x	
20P1	S	TG402C22(WHT)	20P8J01	S	x	x	x	
20P1	S	TG412B20N	SPLICE		x	x	x	
20P1	T	TG402C22(BLU)	20P8J01	T		x	x	
20P1	T	TG413A20	20P8J01	T	x	x	x	
20P1	U	TG404C22(WHT)	20P8J01	U	x	x	x	
20P1	V	TG404C22(BLU)	20P8J01	V	x	x	x	
20P1	W	TG406C22(WHT)	20P8J01	W	x	x		
20P1	X	TG406C22(BLU)	20P8J01	X	x	x	x	
20P1	Y	TG408C20(BLU)	SPLICE			x		
20P1	Y	TG408C20(WHT)	SPLICE		x	x	x	
20P1	Z	TG408C20(BLU)	SPLICE		x		x	
20P2	A	TG308G20	20S8J01	A	x	x	x	
20P2	A	TG460C20(WHT)	SPLICE		x	x	x	
20P2	B	TG584A20N	20S8J01	B	x	x	x	
20P2	B	TG460C20(BLU)	SPLICE		x	x	x	
20P2	C	TG352B22N	20A12P1	C	x	x	x	
20P2	C	TG443A22	20S8J01	C	x	x	x	
20P2	D	TG353D22(WHT)	20A12P1	D	x	x	x	
20P2	D	TG183F20	20S8J01	D	x	x	x	
20P2	E	TG353D22(BLU)	20A12P1	E	x	x	x	
20P2	F	TG350D22(WHT)	20A12P1	F	x	x	x	
20P2	F	TG231B22	20S8J01	F	x	x	x	
20P2	G	TG350D22(BLU)	20A12P1	G	x	x	x	
20P2	G	TG229B22	20S8J01	G	x	x		
20P2	H	TG571B22	20A12P1	H			x	
20P2	H	TG230B22	20S8J01	H	x	x	x	
20P2	I	TG228B22	20S8J01	I	x	x	x	
20P2	J	TG94B22	END CAP		x	x	x	
20P2	J	TG270B22	20S8J01	J	x	x	x	
20P2	K	TG446B22(WHT)	20S8J01	K	x	x	x	
20P2	K	TG268B22	20S8J01	K	x	x	x	
20P2	L	TG446B22(BLU)	20S8J01	L	x	x	x	
20P2	M	TG269B22	20S8J01	M	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES	PIN		REF. DES.	PIN	E	M	P	
20P2	M	TG448B22(WHT)	20S8J01	N	X	X	X	
20P2	N	TG448B22(BLU)	20S8J01	N	X	X	X	
20P2	P	TG267B22	20S8J01	P	X	X	X	
20P2	R	TG450B22(WHT)	20S8J01	R	X	X	X	
20P2	S	TG450B22(BLU)	20S8J01	S	X	X	X	
20P2	S	TG452C22(WHT)	20S8J01	S	X	X	X	
20P2	T	TG462B20N	SPLICE	T	X	X	X	
20P2	T	TG452C22(BLU)	20S8J01	T	X	X	X	
20P2	U	TG463A20	20S8J01	U	X	X	X	
20P2	V	TG454C22(WHT)	20S8J01	V	X	X	X	
20P2	V	TG454C22(BLU)	20S8J01	V	X	X	X	
20P2	W	TG456C22(WHT)	20S8J01	W	X	X	X	
20P2	X	TG456C22(BLU)	20S8J01	X	X	X	X	
20P2	Y	TG458C20(WHT)	SPLICE		X	X	X	
20P2	Z	TG458C20(BLU)	SPLICE		X	X	X	
20P323	A	TG18A16(WHT)	20A1P06	R	X		X	
20P323	B	TG18A16(ORN)	20A1P06	T	X		X	
20P323	C	TG18A16(BLU)	20A1P06	S	X		X	
20P323	M	TG6A20(BLU)	20A1P11	B	X		X	
20P323	N	TG6A20(WHT)	20A1P11	A	X		X	
20P323	P	TG249A16(WHT)	20A4P01	M	X		X	
20P323	R	TG249A16N	20TB3	11	X		X	
20P323	T	TG462G16N	20TB3	12	X		X	
20P323	U	TG412G16N	20TB3	11	X		X	
20P324	A	TG215A22	20XK1	X1	X		X	
20P324	AA	TG429B22(ORN)	3A1J1	G	X		X	
20P324	A	TG22A22	20A1P06	Y	X		X	
20P324	BB	TG429B22N(BLU)	GND		X		X	
20P324	B	TG21A22	20A1P06	C	X			
20P324	C	TG16A22(WHT)	20A1P06	B	X		X	
20P324	C	TG75A22	20A1P01	S	X		X	
20P324	D	TG16A22(BLU)	20A1P06	X	X		X	
20P324	D	TG76A22	20A1P01	I	X		X	
20P324	E	TG320A22(WHT)	20A16P01	X	X		X	
20P324	EE	TG119A20(WHT)	20A1P04	V	X		X	
20P324	F	TG77A20	20A1P01	J	X		X	
20P324	FF	TG320A22(BLU)	20A16P01	Y	X		X	
20P324	F	TG119A20(BLU)	20A1P04	P	X		X	
20P324	G	TG78A22	20A1P01	K	X		X	
20P324	GG	TG139A20(WHT)	20A1P05	K	X		X	
20P324	H	TG244A22	20A4P01	I	X		X	
20P324	H	TG122A22	20A1P04	J	X		X	
20P324	I	TG139A20(BLU)	20A1P05	M	X		X	
20P324	I	TG123A22	20A1P04	Z	X		X	
20P324	J	TG322A22	20A16P01	Z	X		X	
20P324	J	TG68A22	END CAP		X		X	
20P324	KK	TG323A22	20A16P01	B	X		X	
20P324	KK	TG463B20	20J2	T	X		X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20P324	<u>K</u>	TG324A22	20A16P01	<u>C</u>	X		X	
20P324	<u>L</u>	TG160A22(BLU)	20A1J09	<u>J</u>	x		x	
20P324	<u>LL</u>	TG413B20	20J1	<u>T</u>	x		x	
20P324	<u>M</u>	TG149A20	20A1P05	<u>U</u>	x		x	
20P324	<u>M</u>	TG160A22(WHT)	20A1J09	<u>H</u>	x		x	
20P324	<u>N</u>	TG119A20(ORN)	20A1P04	<u>R</u>	x		x	
20P324	<u>N</u>	TG150A22	20A1P05	<u>V</u>	x		x	
20P324	<u>P</u>	TG311A22	20A10P01	<u>T</u>	x		x	
20P324	<u>P</u>	TG151A22	20A1P05	<u>J</u>	x		x	
20P324	<u>R</u>	TG39A22	END CAP		x		x	
20P324	<u>R</u>	TG332B22	4A1J1	<u>A</u>	x		x	
20P324	<u>S</u>	TG41A22	END CAP		x		x	
20P324	<u>T</u>	TG220A22	20A6P01	<u>G</u>	x		x	
20P324	<u>U</u>	TG221A22	20A6P01	<u>H</u>	x		x	
20P324	<u>U</u>	TG172A20	20A1P03	<u>F</u>	x		x	
20P324	<u>V</u>	TG222A22	20A6P01	<u>J</u>	x		x	
20P324	<u>V</u>	TG52A22	SHLD		x		x	
20P324	<u>W</u>	TG245A20	20A4P01	<u>K</u>			x	
20P324	<u>W</u>	TG245B20	SPLICE		x			
20P324	<u>W</u>	TG167A20(BLU)	20A1P03	<u>C</u>	x		x	
20P324	<u>X</u>	TG167A20(WHT)	20A1P03	<u>B</u>	x		x	
20P324	<u>Y</u>	TG247A20	20A4P01	<u>P</u>	x		x	
20P324	<u>Y</u>	TG167A20(ORN)	20A1P03	<u>Z</u>	x		x	
20P324	<u>Z</u>	TG429B22(WHT)	3A1J1	<u>F</u>	x		x	
20P325	<u>A</u>	TG368E22	20TB3	<u>1</u>	x		x	
20P325	<u>AA</u>	TG862A22	20A1P05	<u>Q</u>	x		x	
20P325	<u>A</u>	TG299A22(BLU)	20A10P01	<u>A</u>	x		x	
20P325	<u>B</u>	TG369E22	20TB3	<u>3</u>	x		x	
20P325	<u>BB</u>	TG162A22	20A1J09	<u>X</u>	x		x	
20P325	<u>B</u>	TG299A22(WHT)	20A10P01	<u>B</u>	x		x	
20P325	<u>C</u>	TG1A22	20A1J09	<u>E</u>	x		x	
20P325	<u>CC</u>	TG591B22(BLU)	SPLICE		x		x	
20P325	<u>C</u>	TG115A22(WHT)	20A1P04	<u>H</u>	x		x	
20P325	<u>D</u>	TG2A22	20A1J09	<u>F</u>	x		x	
20P325	<u>DD</u>	TG591B22(WHT)	SPLICE		x		x	
20P325	<u>D</u>	TG115A22(BLU)	20A1P04	<u>W</u>	x		x	
20P325	<u>E</u>	TG3A22	20A1J09	<u>G</u>	x		x	
20P325	<u>EE</u>	TG591B22(ORN)	SPLICE		x		x	
20P325	<u>E</u>	TG117A22(BLU)	20A1P04	<u>M</u>	x		x	
20P325	<u>F</u>	TG28A22(WHT)	20A1P06	<u>F</u>	x		x	
20P325	<u>FF</u>	TG863A22	20A1P05	<u>G</u>	x		x	
20P325	<u>F</u>	TG117A22(WHT)	20A1P04	<u>N</u>	x		x	
20P325	<u>G</u>	TG28A22(BLU)	20A1P06	<u>L</u>	x		x	
20P325	<u>GG</u>	TG864A22	20A1P04	<u>B</u>	x		x	
20P325	<u>G</u>	TG127B22(WHT)	SPLICE		x		x	
20P325	<u>H</u>	TG30A22(WHT)	20A1P06	<u>W</u>	x		x	
20P325	<u>HH</u>	TG129B22(BLU)	SPLICE		x		x	
20P325	<u>H</u>	TG127B22(BLU)	SPLICE		x		x	
20P325	<u>I</u>	TG131C22(WHT)	SPLICE		x		x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20P325	J	TG30A22(BLU)	20A1P06	<u>G</u>	x		x	
20P325	J	TG131C22(ORN)	SPLICE		x		x	
20P325	JJ	TG367B22	SPLICE		x		x	
20P325	K	TG131C22(BLU)	SPLICE		x		x	
20P325	LL	TG70A22	END CAP		x		x	
20P325	M	TG67A22(BLU)	20A1P01	T	x		x	
20P325	MM	TG85A22	END CAP		x		x	
20P325	<u>M</u>	TG134A22(WHT)	20A1P05	<u>T</u>	x		x	
20P325	N	TG67A22(WHT)	20A1P01	<u>U</u>	x		x	
20P325	NN	TG366B22	SPLICE		x		x	
20P325	<u>N</u>	TG134A22(BLU)	20A1P05	X	x		x	
20P325	P	TG69A22(BLU)	20A1P01	<u>M</u>	x		x	
20P325	PP	TG73A22	END CAP		x		x	
20P325	<u>P</u>	TG134A22(ORN)	20A1P05	<u>K</u>	x		x	
20P325	<u>Q</u>	TG66A22	20A1P01	<u>K</u>	x		x	
20P325	R	TG69A22(WHT)	20A1P01	<u>N</u>	x		x	
20P325	<u>R</u>	TG71A22	20A1P01	<u>W</u>	x		x	
20P325	<u>S</u>	TG72B22(BLU)	SPLICE		x		x	
20P325	S	TG74A22	20A1P01	FF	x		x	
20P325	<u>T</u>	TG72B22(WHT)	SPLICE		x		x	
20P325	T	TG137B22(WHT)	SPLICE		x		x	
20P325	<u>U</u>	TG107A22(BLU)	20A1P04	F	x		x	
20P325	<u>U</u>	TG137B22(BLU)	SPLICE		x		x	
20P325	V	TG107A22(WHT)	20A1P04	<u>A</u>	x		x	
20P325	<u>V</u>	TG129B22(WHT)	SPLICE		x		x	
20P325	W	TG109A22(WHT)	20A1P04	J	x		x	
20P325	<u>W</u>	TG129B22(ORN)	SPLICE		x		x	
20P325	X	TG109A22(BLU)	20A1P04	K	x		x	
20P325	<u>X</u>	TG865A22	20A1P04	<u>T</u>	x		x	
20P325	Y	TG111A22(WHT)	20A1P05	D	x		x	
20P325	<u>Y</u>	TG337C22	20XK1	C1	x			
20P325	Y	TG337C22	3XK4	1			x	
20P325	Z	TG111A22(BLU)	20A1P05	E	x		x	
20P326	A	TG203A22	20A6P01	N	x		x	
20P326	<u>A</u>	TG420A16(WHT)	20TB3	4	x		x	
20P326	<u>B</u>	TG95A22	SHLD		x		x	
20P326	C	TG239B20	SPLICE		x		x	
20P326	<u>C</u>	TG97A22	SHLD		x		x	
20P326	D	TG402B22(BLU)	20J1	T	x		x	
20P326	<u>D</u>	TG801D22	20A16P01	B	x		x	
20P326	E	TG278A22	20A4P02	F	x		x	
20P326	<u>E</u>	TG423A16(WHT)	20TB3	7	x		x	
20P326	F	TG513D22	20A16P01	C	x		x	
20P326	<u>F</u>	TG456B22(WHT)	20J2	W	x		x	
20P326	G	TG279A20	20A4P02	G	x		x	
20P326	<u>G</u>	TG408B16(WHT)	20J1	Y	x		x	
20P326	H	TG281C22	SPLICE		x		x	
20P326	<u>H</u>	TG454B22(BLU)	20J2	V	x		x	
20P326	I	TG410B16(WHT)	20J1	<u>A</u>	x		x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20P326	J	TG240A22	20A4P01	E	x		x	
20P326	J	TG456B22(BLU)	20J2	X	x		x	
20P326	K	TG241A22	20A4P01	G	x		x	
20P326	K	TG460B16(WHT)	20J2	A	x		x	
20P326	L	TG242A22	20A4P01	H	x		x	
20P326	M	TG243A22	20A4P01	J	x		x	
20P326	M	TG460B16(BLU)	20J2	B	x		x	
20P326	N	TG280A22	20A4P02	H	x		x	
20P326	N	TG458B16(WHT)	20J2	Y	x		x	
20P326	P	TG79A22	20A1P01	C	x		x	
20P326	P	TG420A16(BLU)	20TB3	5	x		x	
20P326	Q	TG423A16(BLU)	20TB3	8	x		x	
20P326	R	TG80B22	SPLICE		x		x	
20P326	R	TG408B16(BLU)	20J1	Z	x		x	
20P326	S	TG81B22	SPLICE		x		x	
20P326	S	TG410B16(BLU)	20J1	B	x		x	
20P326	T	TG82B22	SPLICE		x		x	
20P326	T	TG458B16(BLU)	20J2	Z	x		x	
20P326	U	TG83B22	SPLICE		x		x	
20P326	V	TG173A22	20A1P03	G	x		x	
20P326	W	TG452B22(BLU)	20J2	T	x		x	
20P326	X	TG452B22(WHT)	20J2	S	x		x	
20P326	Y	TG454B22(WHT)	20J2	U	x		x	
20P326	Z	TG402B22(WHT)	20J1	S	x		x	
20P327	A	TG276A22	20A4P02	D	x		x	
20P327	AA	TG435A22(BLU)	1TB10	C1		x	x	
20P327	AA	TG435A22(ORN)	1TB10	B1	x	x		
20P327	A	TG205A22(BLU)	20A6P01	S	x	x	x	
20P327	BB	TG435A22(BLU)	1TB10	G1	x	x		
20P327	BB	TG435A22(ORN)	1TB10	G1			x	
20P327	B	TG207A22(WHT)	20A6P01	T	x	x	x	
20P327	C	TG204A22	20A6P01	P	x	x	x	
20P327	CC	TG272A22	20A4P02	A	x	x	x	
20P327	C	TG207A22(BLU)	20A6P01	U	x	x	x	
20P327	D	TG213A22	20A6P01	Z	x	x	x	
20P327	DD	TG273A22	20A4P02	Z			x	
20P327	DD	TG273A22	22A5P1	28		x		
20P327	D	TG209A22(WHT)	20A6P01	V	x	x	x	
20P327	E	TG338A22(BLU)	19TB6	A2		x		
20P327	E	TG338A22(WHT)	19TB67	E1		x		
20P327	E	TG338A22(WHT)	22A4P313	E			x	
20P327	E	TG338C22(WHT)	SPLICE		x	x		
20P327	E	TG338D22	19J1	H		x		
20P327	EE	TG274A22	20A4P02	B	x	x	x	
20P327	E	TG209A22(BLU)	20A6P01	W	x	x	x	
20P327	F	TG338A22(BLU)	22A4P313	R			x	
20P327	F	TG338C22(BLU)	SPLICE		x	x		
20P327	FF	TG275A22	20A4P02	C	x	x	x	
20P327	F	TG211A22(WHT)	20A6P01	K	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	1	2	3	
20P327	GG GG G H H H J J J J K K K K L L L L M M M M M N N N N P P P P S S S S T T T T U U U U V V V V W W W X X X Y Y	TG303A22	16A2P1	G		X		
20P327		TG303A22	20A10P01	F	X		X	
20P327		TG211A22(BLU)	20A6P01	Y	X	X	X	
20P327		TG304A22	20A10P01	H	X		X	
20P327		TG304A22	16A2P1		Q		X	
20P327		TG404B22(BLU)	20J1	V	X	X	X	
20P327		TG113A22(BLU)	20A1P04	D	X	X	X	
20P327		TG305A22	16A2P1	X		X		
20P327		TG305A22	20A10P01	K	X		X	
20P327		TG301A22(BLU)	20A10P01	C	X		X	
20P327		TG301A22(BLU)	16A2P1	C		X		
20P327		TG113A22(WHT)	20A1P04	U	X	X	X	
20P327		TG301A22(WHT)	20A10P01	D	X		X	
20P327		TG404B22(WHT)	20J1	U	X	X	X	
20P327		TG301A22(WHT)	16A2P1	B		X		
20P327		TG406B22(WHT)	20J1	W	X	X	X	
20P327		TG406B16(WHT)	20J1	X			X	
20P327		TG98A22	END CAP		X	X	X	
20P327		TG406B22(BLU)	20J1	X	X	X	X	
20P327		TG91A22	END CAP		X	X	X	
20P327		TG309A22(BLU)	20A10P01	R	X		X	
20P327		TG309A22(BLU)	16A2P1	M		X		
20P327		TG205A22(WHT)	20A6P01	R		X		
20P327		TG58A22	20A1P01	BB	X	X	X	
20P327		TG271E20	SPLICE		X	X	X	
20P327		TG309A22(WHT)	20A10P01	S	X		X	
20P327		TG309A22(WHT)	16A2P1	E		X		
20P327		TG54A22	20A1P01	V	X	X	X	
20P327		TG92A22	SHLD		X	X	X	
20P327		TG340B22(WHT)	SPLICE		X	X	X	
20P327		TG340B22(BLU)	SPLICE		X	X	X	
20P327		TG342B22(WHT)	SPLICE		X	X	X	
20P327		TG59A22	20A1P01	DD	X	X	X	
20P327		TG342B22(BLU)	SPLICE		X	X	X	
20P327		TG53A22	20A1P01	A	X	X	X	
20P327		TG306A22(WHT)	20A10P01	N	X		X	
20P327		TG306A22(WHT)	16A2P1	K		X		
20P327		TG55A22	20A1P01	W	X	X	X	
20P327		TG306A22(ORN)	16A2P1	F		X		
20P327		TG306A22(ORN)	20A10P01	U	X		X	
20P327		TG57A22	20A1P01	V	X	X	X	
20P327		TG306A22(BLU)	16A2P1	J		X		
20P327		TG306A22(BLU)	20A10P01	P	X		X	
20P327		TG432A22(WHT)	1TB10	G3	X	X		
20P327		TG432A22(WHT)	1TB10	J2			X	
20P327		TG60A22	20A1P01	EE	X	X	X	
20P327		TG432A22(ORN)	1TB10	B3	X	X		
20P327		TG432A22(BLU)	1TB10	C2			X	
20P327		TG61A22	20A1P01	HH	X	X	X	
20P327		TG432A22(BLU)	1TB10	G2	X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
20P327	Z	TG205A22(WHT)	20A6P01	R	X	X	X	
20P327	Z	TG435A22(WHT)	1TB10	B2	X	X		
20P327	Z	TG435A22(WHT)	1TB10	E1			X	
20P328	A	TG96A22(BLU)	20A1P04	Z	X		X	
20P328	A	TG12A16(WHT)	20A1P06	A	X		X	
20P328	B	TG96A22(WHT)	20A1P04	S	X		X	
20P328	B	TG64A22	20A1P01	H	X		X	
20P328	C	TG96A22(ORN)	20A1P04	E	X		X	
20P328	C	TG14A16(WHT)	20A1P06	P	X		X	
20P328	D	TG105A22(BLU)	20A1P04	X	X		X	
20P328	D	TG860A22(BLU)	20A1P04	G	X		X	
20P328	E	TG105A22(WHT)	20A1P04	FF	X		X	
20P328	E	TG102A16(BLU)	20A1P04	DD	X		X	
20P328	F	TG99A20(ORN)	20A1P04	EE	X		X	
20P328	F	TG101A22	SHLD		X		X	
20P328	G	TG99A20(WHT)	20A1P04	V	X		X	
20P328	G	TG102A16(VVHT)	20A1P04	CC	X		X	
20P328	H	TG99A20(BLU)	20A1P04	E	X		X	
20P328	H	TG568A20(BLU)	20A1P06	HH	X		X	
20P328	I	TG568A20(WHT)	20A1P06	EE	X		X	
20P328	J	TG23A22(WHT)	20A1P06	H	X		X	
20P328	J	TG860A22(WHT)	20A1P04	M	X		X	
20P328	K	TG23A22(BLU)	20A1P06	J	X		X	
20P328	K	TG148A22	20A1P05	S	X		X	
20P328	L	TG25A22(WHT)	20A1P06	C	X		X	
20P328	M	TG25A22(BLU)	20A1P06	D	X		X	
20P328	M	TG319A22	20A16P01	N	X		X	
20P328	N	TG178A22(BLU)	20A1P03	L	X		X	
20P328	N	TG100A22	SHLD		X		X	
20P328	P	TG178A22(WHT)	20A1P03	D	X		X	
20P328	P	TG14A16(BLU)	20A1P06	BB	X		X	
20P328	Q	TG102A16(ORN)	20A1P04	Q	X		X	
20P328	R	TG180A22(ORN)	20A1P93	N	X		X	
20P328	R	TG163A22(WHT)	20A1J09	V	X		X	
20P328	S	TG180A2(BLU)	20A1P03	C	X		X	
20P328	S	TG163A22(BLU)	20A1J09	P	X		X	
20P328	T	TG180A22(WHT)	20A1P03	P	X		X	
20P328	U	TG174A20(BLU)	20A1P03	H	X		X	
20P328	V	TG174A20(WHT)	20A1P03	J	X	X		
20P328	W	TG174A20(ORN)	20A1P03	K	X	X		
20P328	X	TG62A22	20A1P01	B	X		X	
20P328	Z	TG12A12(BLU)	20A1P06	W	X		X	
20P8J01	A	A308E20	20P1	A	X	X	X	
20P8J01	A	TG308E20	20P1	A		X		
20P8J01	A	TG410E20(WHT)	SPLICE		X	X	X	
20P8J01	B	TG410E20(BLU)	SPLICE		X	X	X	
20P8J01	C	TG393A22	20P1	C	X	X	X	
20P8J01	C	TG183D20	20P1	D	X	X	X	
20P8J01	E	TG583A20N	20P1	B	X	X	X	
20P8J01	F	TG226D22	20P1	F	X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20P8J01	G	TG224B22	20P1	G	x	x	x	
20P8J01	H	TG227B22	20P1	H	x	x	x	
20P8J01	I	TG225B22	20P1	I	x	x	x	
20P8J01	J	TG265B22	20P1	J	x	x	x	
20P8J01	K	TG396B22(WHT)	20P1	K	x	x	x	
20P8J01	K	TG263B22	20P1	K	x	x	x	
20P8J01	L	TG396B22(BLU)	20P1	L	x	x	x	
20P8J01	M	TG398B22(WHT)	20P1	M	x	x	x	
20P8J01	M	TG266B22	20P1	M	x	x	x	
20P8J01	N	TG398B22(BLU)	20P1	N	x	x	x	
20P8J01	N	TG264B22	20P1	N	x	x	x	
20P8J01	P	TG400B22(WHT)	20P1	P	x	x	x	
20P8J01	P	TG412C20N	SPLICE		x	x	x	
20P8J01	Q	TG412D20N	SPLICE		x	x	x	
20P8J01	R	TG400B22(BLU)	20P1	R	x	x	x	
20P8J01	R	TG412E20N	SPLICE		x	x	x	
20P8J01	S	TG402C22(WHT)	20P1	S	x	x	x	
20P8J01	S	TG412F20N	SPLICE		x	x	x	
20P8J01	T	TG402C22(BLU)	20P1	T		x	x	
20P8J01	T	TG413A20	20P1	T	x	x	x	
20P8J01	U	TG404C22(WHT)	20P1	U	x	x	x	
20P8J01	V	TG404C22(BLU)	20P1	V	x	x	x	
20P8J01	W	TG406C22(WHT)	20P1	W	x	x	x	
20P8J01	X	TG406C22(BLU)	20P1	X	x	x	x	
20P8J01	Y	TG408E20(WHT)	SPLICE		x	x	x	
20P8J01	Z	TG408E20(BLU)	SPLICE		x	x	x	
20S1		TG200E22	5A1J1	B	x		x	
20S1		TG201F22	5A1J1	C	x		x	
20S1	1	TG201E22	5A1J1	C		x		
20S1	1	TG201F22	20S1	3		x		
20S1	2	TG200E22	5A1J1	B		x		
20S1	2	TG200H22	20S1	5		x		
20S1	2	TG601A22	19TB4	B9		x	x	
20S1	3	TG201F22	20S1	1		x		
20S1	4	TG212B22	5A1J1	H		x		
20S1	5	TG200H22	20S1	2		x		
20S1	6	TG198A22	5A1J1	J		x		
20S2	1	TG368D22	20TB3	1	x	x	x	
20S2	2	TG601A22	19TB4	F9	x			
20S2	3	TG369D22	20TB3	3	x	x	x	
20S3	1	TG182B20	4A2P1	S	x	x	x	
20S3	2	TG183A20	4A2P1	T	x	x	x	
20S8J01	A	TG308G20	20P2	A	x	x	x	
20S8J01	A	TG460E20(WHT)	SPLICE		x	x	x	
20S8J01	B	TG460E20(BLU)	SPLICE		x	x	x	
20S8J01	C	TG443A22	20P2	C	x	x	x	
20S8J01	C	TG183F20	20P2	D	x	x	x	
20S8J01	E	TG584A20N	20P2	B	x	x	x	
20S8J01	F	TG231B22	20P2	F	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20S8J01	G	TG229B22	20P2	G	x	x	x	
20S8J01	H	TG230B22	20P2	H	x	x	x	
20S8J01	I	TG228B22	20P2	I	x	x	x	
20S8J01	J	TG270B22	20P2	J	x	x	x	
20S8J01	K	TG446B22(WHT)	20P2	K	x	x	x	
20S8J01	K	TG268B22	20P2	K	x	x	x	
20S8J01	L	TG446B22(BLU)	20P2	L	x	x	x	
20S8J01	M	TG448B22(WHT)	20P2	M	x	x	x	
20S8J01	M	TG269B22	20P2	M	x	x	x	
20S8J01	N	TG448B22(BLU)	20P2	N	x	x	x	
20S8J01	N	TG267B22	20P2	N	x	x	x	
20S8J01	P	TG450B22(WHT)	20P2	P	x	x	x	
20S8J01	P	TG462C20N	SPLICE		x	x	x	
20S8J01	Q	TG462D20N	SPLICE		x	x	x	
20S8J01	R	TG450B22(BLU)	20P2	R	x	x	x	
20S8J01	R	TG462E20N	SPLICE		x	x	x	
20S8J01	S	TG452C22(WHT)	20P2	S	x	x	x	
20S8J01	S	TG462F20N	SPLICE		x	x	x	
20S8J01	T	TG452C22(BLU)	20P2	T	x	x	x	
20S8J01	T	TG463A20	20P2	T	x	x	x	
20S8J01	U	TG454C22(WHT)	20P2	U	x	x	x	
20S8J01	V	TG454C22(BLU)	20P2	V	x	x	x	
20S8J01	W	TG456C22(WHT)	20P2	W	x	x	x	
20S8J01	X	TG456C22	20P2	X	x	x	x	
20S8J01	Y	TG458E20(WHT)	SPLICE		x	x	x	
20S8J01	Z	TG458E20(BLU)	SPLICE		x	x	x	
20TB1	2	TG545A16(WHT)	20A7P01	E	x		x	
20TB1	2	TG547A16(WHT)	20A7P01	P	x		x	
20TB1	2	TG438A16(WHT)	20A5P01	T	x		x	
20TB1	2	TG438B22	20J330	W	x		x	
20TB1	3	TG4B10	10J1	F	x		x	
20TB1	3	TG549A16(WHT)	20A7P01	Q	x		x	
20TB1	3	TG551A16(WHT)	20A7P01	T	x		x	
20TB1	4	TG545A16(BLU)	20A7P01	G	x		x	
20TB1	4	TG547A16(BLU)	20A7P01	I	x		x	
20TB1	3	TG438A16(BLU)	20A5P01	S	x		x	
20TB1	5	TG5A10N	GND		x		x	
20TB1	5	TG549A16(BLU)	20A7P01	R	x		x	
20TB1	5	TG551A16(BLU)	20A7P01	S	x		x	
20TB3	1	TG368B22	SPLICE		x	x	x	
20TB3	1	TG368D22	20S2	1	x	x	x	
20TB3	1	TG368E22	20P325	A	x		x	
20TB3	1	TG368E22	20A2P03	J		x		
20TB3	11	TG388A20N	20A20PI	E	x	x	x	
20TB3	11	TG412A16N	20J1	S	x	x	x	
20TB3	11	TG412B16N	20A7P01	M		x		
20TB3	11	TG412G16N	20P323	U	x		x	
20TB3	11	TG583B20N	20J1	B	x	x	x	
20TB3	12	TG414A16N	GND		x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
20TB3	12	TG462A16N	20J2	<u>S</u>	x			
20TB3	12	TG462B16N	20A7P01	<u>N</u>		x		
20TB3	12	TG462G16N	20P323	T	x		x	
20TB3	12	TG584B20N	20J2	B	x	x	x	
20TB3	2	A179A20	19K82P1	E			x	
20TB3	2	A342A22	19K82P1	E	x	x		
20TB3	2	A342B22	19XK106	X1	x			
20TB3	2	A342B22	21XK6	X1	x			
20TB3	2	A342B22	22A5P1	232		x		
20TB3	3	TG369B22	SPLICE		x	x	x	
20TB3	3	TG369D22	20S2	3	x	x	x	
20TB3	3	TG369E22	20A2P03	K		x		
20TB3	3	TG369E22	20P325	B	x		x	
20TB3	4	TG420A16(WHT)	20A5P02	<u>A</u>		x		
20TB3	4	TG420A16(WHT)	20P326	<u>A</u>	x		x	
20TB3	4	TG446A22(WHT)	20J2	K	x	x	x	
20TB3	4	TG448A22(WHT)	20J2	M	x	x	x	
20TB3	4	TG450A22(WHT)	20J2	P	x	x	x	
20TB3	5	TG420A16(BLU)	20A5P02	<u>M</u>		x		
20TB3	5	TG420A16(BLU)	20P326	<u>P</u>	x		x	
20TB3	5	TG446A22(BLU)	20J2	L	x	x	x	
20TB3	5	TG450A22(BLU)	20J2	R	x	x	x	
20TB3	5	TG448A22(BLU)	20J2	N	x	x	x	
20TB3	7	TG396A22(WHT)	20J1	K	x	x	x	
20TB3	7	TG398A22(WHT)	20J1	M	x	x	x	
20TB3	7	TG400A22(WHT)	20J1	P	x	x	x	
20TB3	7	TG423A16(WHT)	20A5P02	Z		x		
20TB3	7	TG423A16(WHT)	20P326	<u>E</u>	x		x	
20TB3	8	TG400A22(BLU)	20J1	R	x	x	x	
20TB3	8	TG396A22(BLU)	20J1	L	x	x	x	
20TB3	8	TG398A22(BLU)	20J1	N	x	x	x	
20TB3	8	TG423A16(BLU)	20A5P02	<u>K</u>		x		
20TB3	8	TG423A16(BLU)	20P326	<u>Q</u>	x		x	
20XK1	A2	TG200F22	SPLICE		x			
20XK1	A3	TG208A22	19TB4	F19	x			
20XK1	B2	H70A22	10P1	H	x			
20XK1	C1	TG337C22	20P325	<u>Y</u>	x			
20XK1	C2	TG337A22	19XK95	A 2	x			
20XK1	X1	TG215A22	20P324	A	x			
20XK94	A3	TG867A22	20A4P02	Z	x			
20XK94	X1	TG538B22	22A3P1	P	x			
20XK94	X2	TG540A22N	GND		x			
21A1J1	<u>A</u>	A445A22	21S7	3			x	
21A1J1	<u>B</u>	A446A22	21S7	4			x	
21A1J1	<u>C</u>	A442B22	21S7				x	
21A1J1	D	A48E20	21S6	6			x	
21A1J1	<u>D</u>	L50A22N	GND				x	
21A1J1	E	A515B20	21S6	5			x	
21A1J1	<u>E</u>	L195E22	8J110				x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
21A1J1	H	A500D20	SPLICE				X	
21A1J1	J	A528X20	21DS1	E			X	
21A1J1	K	A42A22	21S7	1			X	
21A1J1	L	A43A22	21S7	2			X	
21A1J1	M	A44A22	21S7	3			X	
21A1J1	N	A45A22	21S7	4			X	
21A1J1	P	A41B22	21S7	1			X	
21A1J1	R	A443A22	21S7	1			X	
21A1J1	Z	A444A22	21S7	2			X	
21A1P06	C	A21A22	20P324	B			X	
21A1P1	A	A445B22	21A2P1	D			X	
21A1P1	B	A446B22	21A2P1	E			X	
21A1P1	C	A442A22	21A2P1	A			X	
21A1P1	D	A48D20	19TB4	G14			X	
21A1P1	E	L50B22N	GND				X	
21A1P1	E	A515A20	4A3J1	T			X	
21A1P1	E	L195D22 **	8TB4	C1			X	
21A1P1	H	A500C20	19TB4	F13			X	
21A1P1	J	A528V20	19TB4	B			X	
21A1P1	K	A42B22	21A3P1	B			X	
21A1P1	L	A43B22	21A3P1	C			X	
21A1P1	M	A44B22	21A3P1	D			X	
21A1P1	N	A45B21	21A3P1	E			X	
21A1P1	P	A41A22	21A3P1	A			X	
21A1P1	R	A443B22	21A2P1	B			X	
21A1P1	Z	A444B22	21A2P1	C			X	
21A1P1	100	A557E20	19TB4	H14	X			
21A1P1	26	A528Y522	SPLICE		X			
21A1P1	27	A528X22	SPLICE		X			
21A1P1	29	A449A20	19K31	D1	X	X		
21A1P1	56	A553A22	21J2	R	X			
21A1P1	57	A554A22	21J2	S	X			
21A1P1	58	A555A22	21J1	R	X			
21A1P1	59	A556A22	21J1	S	X			
21A1P1	61	A636A22	SPLICE		X			
21A1P1	63	A528X22	SPLICE		X			
21A1P1	64	A528Y22	SPLICE		X			
21A1P1	68	A559A22	SPLICE		X			
21A1P1	69	A551B22	SPLICE		X			
21A1P1	70	A551C22	SPLICE		X			
21A1P1	71	A558A22	SPLICE		X			
21A1P1	74	A552A22(WHT)	SPLICE		X			
21A1P1	75	A552A22(BLU)	SPLICE		X			
21A1P1	75	A552A22(BLU)	SPLICE			X		
21A1P1	84	A550A22	SPLICE		X			
21A1P1	88	L195D22	8TB4	C1	X			
21A1P1	91	A780B22	END CAP		X			
21A1P1	94	A635A22	SPLICE		X			
21A1P1	96	A449B22	SPLICE		X			
21A1P1	97	A449C22	SPLICE		X			

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
21A10P1	A	A71B16	21P2	<u>M</u>	x	x		
21A10P1	C	A447G20	21P2	Y	x	x	x	
21A10P1	D	A72A16N	GND		x	x		
21A11P1	A	A68B16	21P1	<u>M</u>	x	x		
21A11P1	C	A447J20	21P1	Y	x	x	x	
21A11P1	D	A69A16N	GND		x	x		
21A12P1	100	A557E20	19TB4	H14		x		
21A12P1	61	A636A22	SPLICE			x		
21A12P1	63	A528X22	SPLICE			x		
21A12P1	64	A528Y22	SPLICE			x		
21A12P1	68	A558A22	SPLICE			x		
21A12P1	69	A551B22	SPLICE			x		
21A12P1	70	A551C22	SPLICE			x		
21A12P1	71	A559A22	GND			x		
21A12P1		A80A22N	GND			x		
	(SHLD)							
21A12P1	72	A1097A22(BLU)	16A1P2	29		x		
21A12P1	73	A1097A22(WHT)	16A1P2	27		x		
21A12P1	74	A552A22(WHT)	SPLICE			x		
21A12P1	75	A552A22(BLU)	SPLICE			x		
21A12P1	84	A550A22	SPLICE			x		
21A12P1	89	A1096A22	16TB1	G2		x		
21A12P1	91	A780B22	END CAP			x		
21A12P1	92	A781A22N	GND			x		
21A12P1	94	A635A22	SPLICE			x		
21A12P1	96	A449B22	SPLICE			x		
21A12P1	97	A449C22	SPLICE			x		
21A2P1	A	A442A22	21A1P1	<u>C</u>			x	
21A2P1	B	A443B22	21A1P1	R			x	
21A2P1	C	A444B22	21A1P1	Z			x	
21A2P1	D	A445B22	21A1P1	<u>A</u>			x	
21A2P1	E	A446B22	21A1P1	<u>B</u>			x	
21A2P1	K	A359D16	19K31	D2			x	
21A2P1	L	A449B16	19K31	D1			x	
21A2P1	M	A450A16N	GND				x	
21A2P1	1	A552D22(WHT)	SPLICE		x			
21A2P1	16	A636D22	SPLICE		x	x		
21A2P1	18	A559D22	SPLICE		x			
21A2P1	19	A34A22N	GND			x		
21A2P1	2	A552D22(BLU)	SPLICE		x	x		
21A2P1	28	A781A22	SPLICE		x	x		
21A2P1	29	A781B22	SPLICE		x	x		
21A2P1	36	A635D22	SPLICE		x	x		
21A2P1	37	A553B22	21P2	R	x	x		
21A2P1	6	A550D22	SPLICE		x	x		
21A2P1	71	A781C22	SPLICE		x	x		
21A2P2	A	A451A20	21J3	A			x	
21A2P2	B	A452A20	21J3	B			x	

END		WIRE NO.	END		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
21A2P2	C	A453A20	21J3	C			X	
21A2P2	D	A454A20	21J3	D			X	
21A2P2	E	A455A20	21J3	E			X	
21A2P2	F	A456A20	21J3	F			X	
21A2P2	G	A457A20	21J3	G			X	
21A2P2	H	A458A20	21J3	H			X	
21A2P2	J	A459A20	21J3	J			X	
21A2P2	K	A460A20	21J3	K			X	
21A2P2	L	A461A20	21J3	L			X	
21A2P2	M	A462A20	21P3	M			X	
21A2P2	N	A463A20	21J3	N			X	
21A2P2	P	A464A20	21J3	P			X	
21A2P2	R	A465A20	19TB4	D6			X	
21A2P2	S	A466A20	21P3	S			X	
21A2P2	T	A467A20	21J3	T			X	
21A2P2	U	A468A20	21J3	U			X	
21A2P2	V	A469A20	21J3	V			X	
21A2P2	1	A591A22	21A6P2	G	x	x		
21A2P2	10	A566A22	21A6P1	G	x	x		
21A2P2	11	A572A22	21A6P1	N	x	x		
21A2P2	12	A564A22	21A6P1	E	x	x		
21A2P2	13	A561A22	21A6P1	B	x	x		
21A2P2	14	A569A22	21A6P1	K	x	x		
21A2P2	15	A576A22	21A6P1	T	x	x		
21A2P2	16	A570A22	21A6P1	L	x	x		
21A2P2	17	A562A22	21A6P1	C	x	x		
21A2P2	18	A565A22	21A6P1	F	x	x		
21A2P2	19	A603A22	21A6P2	V	x	x		
21A2P2	2	A597A22	21A6P2	N	x	x		
21A2P2	20	A593A22	21A6P2	J	x	x		
21A2P2	21	A598A22	21A6P2	P	x	x		
21A2P2	22	A596A22	21A6P2	M	x	x		
21A2P2	23	A600A22	21A6P2	S	x	x		
21A2P2	24	A588A22	21A6P2	D	x	x		
21A2P2	25	A602A22	21A6P2	U	x	x		
21A2P2	26	A592A22	21A6P2	H	x	x		
21A2P2	27	A599A22	21A6P2	R	x	x		
21A2P2	28	A578A22	21A6P1	V	x	x		
21A2P2	29	A568A22	21A6P1	J	x	x		
21A2P2	3	A589A22	21A6P2	E	x	x		
21A2P2	30	A573A22	21A6P1	P	x	x		
21A2P2	31	A571A22	21A6P1	M	x	x		
21A2P2	32	A575A22	21A6P1	S	x	x		
21A2P2	33	A563A22	21A6P1	D	x	x		
21A2P2	34	A577A22	21A6P1	U	x	x		
21A2P2	35	A567A22	21A6P1	H	x	x		
21A2P2	36	A574A22	21A6P1	R	x	x		
21A2P2	4	A586A22	21A6P2	B	x	x		
21A2P2	44	A585A22	21A6P2	A	x	x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
21A2P2	5	A594A22	21A6P2	K	x	x		
21A2P2	52	A560A22	21A6P1	A	x	x		
21A2P2	6	A601A22	21A6P2	T	x	x		
21A2P2	62	A604A22	21A6P2	W	x	x		
21A2P2	63	A605A22	21A6P2	X		x		
21A2P2	65	A605A22	21A6P2	X	x			
21A2P2	65	A610A22N	GND		x	x		
21A2P2	7	A595A22	21A6P2	L	x	x		
21A2P2	70	A608A22N	GND		x	x		
21A2P2	8	A587A22	21A6P2	C	x	x		
21A2P2	80	A580A22(BLU)	21A6P1	Y	x	x		
21A2P2	81	A580A22(WHT)	21A6P1	X	x	x		
21A2P2	82	A579A22	21A6P1	W	x	x		
21A2P2	87	A609A22N	GND		x	x		
21A2P2	88	A582A22N	GND		x	x		
21A2P2	9	A590A22	21A6P2	F	x	x		
21A2P3	A	A471A20	21J4	A			x	
21A2P3	B	A472A20	21J4	B			x	
21A2P3	C	A473A20	21J4	C			x	
21A2P3	D	A474A20	21J4	E			x	
21A2P3	E	A475A20	21J4	E			x	
21A2P3	F	A476A20	21J4	F			x	
21A2P3	G	A477A20	21J4	G			x	
21A2P3	H	A478A20	21J4	H			x	
21A2P3	J	A479A20	21J4	J			x	
21A2P3	K	A480A20	21J4	K			x	
21A2P3	L	A481A20	21J4	L			x	
21A2P3	M	A482A20	21J4	M			x	
21A2P3	N	A483A20	21J4	N			x	
21A2P3	P	A484A20	21J4	P			x	
21A2P3	R	A485A20	21J4	R			x	
21A2P3	S	A486A20	21J4	S			x	
21A2P3	T	A487A20	21J4	T			x	
21A2P3	U	A488A20	21J4	U			x	
21A2P3	V	A489A20	21J4	V			x	
21A3P1	A	A41A22	21A1P1	P			x	
21A3P1	B	A42B22	21A1P1	K			x	
21A3P1	C	A43B22	21A1P1	L			x	
21A3P1	D	A44B22	21A1P1	M			x	
21A3P1	E	A45B22	21A1P1	N			x	
21A3P1	G	A48C201	19TB1	H14			x	
21A3P1	K	A359C16	19K31	D2				
21A3P1	L	A449A16	19K31	D1			x	
21A3P1	M	A50A16N	GND				x	
21A3P1	1	A552E22(WHT)	SPLICE		x			
21A3P1	16	A636E22	SPLICE		x	x		
21A3P1	18	A558E22	SPLICE			x		
21A3P1	18	A559E22	SPLICE		x			
21A3P1	19	A32A22N	GND			x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
21A3P1	19	A558E22	SPLICE		x			
21A3P1	2	A552E22(BLU)	SPLICE		x	x		
21A3P1	28	A783A22	21A3P1	71	x	x		
21A3P1	30	A624A22	21A7P1	P		x		
21A3P1	36	A635E22	SPLICE		x	x		
21A3P1	37	A554B22	21P2	S	x	x		
21A3P1	6	A550E22	SPLICE		x	x		
21A3P1	71	A783A22	21A3P1	28	x	x		
21A3P2	A	A1A20	21J1				x	
21A3P2	B	A2A20	21J1				x	
21A3P2	C	A3A20	21J1				x	
21A3P2	D	A4A20	21J1				x	
21A3P2	E	A5A20	21J1				x	
21A3P2	F	A6A20	21J1				x	
21A3P2	G	A7A20	21J1				x	
21A3P2	H	A8A20	21J1	H			x	
21A3P2	J	A9A20	21J1	J			x	
21A3P2	L	A11A20	21J1	L			x	
21A3P2	M	A12A20	21J1	M			x	
21A3P2	N	A13A20	21J1	N			x	
21A3P2	P	A14A20	21J1	P			x	
21A3P2	R	A15A20	21J1	R			x	
21A3P2	S	A16A20	21J1	S			x	
21A3P2	SHIELD	A244A22N	GND				x	
21A3P2	SHIELD	A245A22N	GND				x	
21A3P2	SHIELD	A246A22N	GND				x	
21A3P2	T	A17A20	21J1	T			x	
21A3P2	U	A18A20	21J1	U			x	
21A3P2	V	A19A20	21J1	V			x	
21A3P2	1	A646A22	21A7P2	G	x	x		
21A3P2	10	A617A22	21A7P1	G	x	x		
21A3P2	11	A623A22	21A7P1	N	x	x		
21A3P2	K	A10A20	21J1	K			x	
21A3P2	12	A615A22	21A7P1	E	x	x		
21A3P2	13	A612A22	21A7P1	B	x			
21A3P2	14	A620A22	21A7P1	K	x	x		
21A3P2	15	A612A22	21A7P1	B		x		
21A3P2	15	A627A22	21A7P1	T	x	x		
21A3P2	16	A621A22	21A7P1	L	x	x		
21A3P2	17	A613A22	21A7P1	C	x	x		
21A3P2	18	A616A22	21A7P1	F	x	x		
21A3P2	19	A658A22	21A7P2	V	x	x		
21A3P2	2	A652A22	21A7P2	N	x	x		
21A3P2	20	A648A22	21A7P2	J	x	x		
21A3P2	21	A653A22	21A7P2	P	x	x		
21A3P2	22	A651A22	21A7P2	M	x	x		
21A3P2	23	A655A22	21A7P2	S	x	x		
21A3P2	24	A643A22	21A7P2	D	x	x		
21A3P2	25	A657A22	21A7P2	U	x	x		

END		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
21A3P2	26	A647A22	21A7P2	H	x	x		
21A3P2	27	A654A22	21A7P2	R	x	x		
21A3P2	28	A629A22	21A7P1	V	x	x		
21A3P2	29	A619A22	21A7P1	J	x	x		
21A3P2	3	A644A22	21A7P2	E	x	x		
21A3P2	30	A624A22	21A7P1	P	x			
21A3P2	31	A622A22	21A7P1	M	x	x		
21A3P2	32	A626A22	21A7P1	S	x	x		
21A3P2	33	A614A22	21A7P1	D	x	x		
21A3P2	34	A628A22	21A7P1	U	x	x		
21A3P2	35	A618A22	21A7P1	H	x	x		
21A3P2	36	A625A22	21A7P1	R	x	x		
21A3P2	4	A641A22	21A7P2	B	x	x		
21A3P2	44	A640A22	21A7P2	A	x	x		
21A3P2	5	A649A22	21A7P2	K	x	x		
21A3P2	52	A611A22	21A7P1	A	x	x		
21A3P2	6	A656A22	21A7P2	T	x	x		
21A3P2	62	A659A22	21A7P2	W	x	x		
21A3P2	63	A660A22	21A7P2	X	x	x		
21A3P2	65	A665A22N	GND		x	x		
21A3P2	7	A650A22	21A7P2	L	x	x		
21A3P2	70	A663A22N	GND		x	x		
21A3P2	8	A642A22	21A7P2	C	x			
21A3P2	8	A642A22	21A7P1	C		x		
21A3P2	80	A631A22(BLU)	21A7P1	Y	x	x		
21A3P2	81	A631A22(WHT)	21A7P1	X	x	x		
21A3P2	82	A630A22	21A7P1	W	x	x		
21A3P2	87	A664A22N	GND		x	x		
21A3P2	88	A663A22N	GND		x	x		
21A3P2	9	A645A22	21A7P2	F	x	x		
21A3P3	A	A21A20	21J2	H			x	
21A3P3	B	A22A20	21J2	G			x	
21A3P3	C	A23A20	21J2	E			x	
21A3P3	D	A24A20	21J2	E			x	
21A3P3	E	A25A20	21J2	D			x	
21A3P3	F	A26A20	21J2	C			x	
21A3P3	G	A27A20	21J2	G			x	
21A3P3	H	A28A20	21J2	H			x	
21A3P3	J	A29A20	21J2	J			x	
21A3P3	K	A30A20	21J2	K			x	
21A3P3	L	A31A20	21J2	L			x	
21A3P3	M	A32A20	21J2	M			x	
21A3P3	N	A33A20	21J2	N			x	
21A3P3	P	A34A20	21J2	P			x	
21A3P3	R	A35A20	21J2	R			x	
21A3P3	S	A36A20	21J2	S			x	
21A3P3	SHIELD	A153A22N	GND				x	
21A3P3	SHIELD	A154A22N	GND				x	
21A3P3	SHIELD	A155A22N	GND				x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
21A3P3	T	A37A20	21J2	T			X	
21A3P3	U	A38A20	21J2	U			X	
21A3P3	V	A39A20	21J2	V			X	
21A4P1	A	A471B20	21P4	A			X	
21A4P1	A	A291A20	CAP(SHLD)				X	
21A4P1	B	A472B20	21P4	B			X	
21A4P1	B	A293A20N	GND				X	
21A4P1	C	A473B20	21P4	C			X	
21A4P1	C	A538A20N	GND				X	
21A4P1	D	A 4 7 4 B 2 0	21P4	D			X	
21A4P1	E	A475B20	21P4	E			X	
21A4P1	F	A476B20	21P4	F			X	
21A4P1	G	A477B20	21P4	G			X	
21A4P1	H	A478B20	21P4	H			X	
21A4P1	J	A479B20	21P4	J			X	
21A4P1	K	A480B20	21P4	K			X	
21A4P1	L	A481B20	21P4	L			X	
21A4P1	M	A482B20	21P4	M			X	
21A4P1	N	A483B20	21P4	N			X	
21A4P1	P	A484B20	21P4	P			X	
21A4P1	R	A485B20	21P4	R			X	
21A4P1	S	A486B20	21P4	S			X	
21A4P1	T	A487B20	21P4	T			X	
21A4P1	U	A488B20	21P4	U			X	
21A4P1	V	A489B20	21P4	V			X	
21A4P1	W	A290A20	CAP(SHLD)				X	
21A4P1	X	A292A20N	GND				X	
21A4P1	Y	A297A20	CAP(SHLD)				X	
21A4P1	Z	A413A20N	GND				X	
21A4P1	1	A552H22(WHT)	SPLICE		X	X		
21A4P1	16	A636H22	SPLICE		X	X		
21A4P1	18	A558H22	SPLICE			X		
21A4P1	18	A559H22	SPLICE		X			
21A4P1	19	A33A22N	GND			X		
21A4P1	19	A558H22	SPLICE		X			
21A4P1	2	A552H22(BLU)	SPLICE		X	X		
21A4P1	29	A782A22	21A4P1	71	X	X		
21A4P1	36	A635H22	SPLICE		X	X		
21A4P1	37	A556B22	21P1	S	X	X		
21A4P1	6	A550H22	SPLICE		X	X		
21A4P1	71	A782A22	21A4P1	29	X	X		
21A4P2	1	A701A22	21A8P2	G	X	X		
21A4P2	10	A676A22	21A8P1	G	X	X		
21A4P2	11	A682A22	21A8P1	N	X	X		
21A4P2	12	A674A22	21A8P1	E	X	X		
21A4P2	13	A671A22	21A8P1	B	X	X		
21A4P2	14	A679A22	21A8P1	K	X	X		
21A4P2	15	A686A22	21A8P1	T	X	X		
21A4P2	16	A680A22	21A8P1	L	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
21A4P2	17	A672A22	21A8P1	C	x			
21A4P2	18	A675A22	21A8P1	F	x	x		
21A4P2	19	A713A22	21A8P2	V	x	x		
21A4P2	2	A707A22	21A8P2	N	x	x		
21A4P2	20	A703A22	21A8P2	J	x	x		
21A4P2	21	A708A22	21A8P2	P	x	x		
21A4P2	22	A706A22	21A8P2	M	x	x		
21A4P2	23	A710A22	21A8P2	S	x	x		
21A4P2	24	A698A22	21A8P2	D	x	x		
21A4P2	25	A712A22	21A8P2	U	x	x		
21A4P2	26	A702A22	21A8P2	H	x	x		
21A4P2	27	A709A22	21A8P2	R	x	x		
21A4P2	28	A688A22	21A8P1	V	x	x		
21A4P2	29	A678A22	21A8P1	J	x	x		
21A4P2	3	A699A22	21A8P2	E	x	x		
21A4P2	30	A683A22	21A8P1	P	x	x		
21A4P2	31	A681A22	21A8P1	M	x	x		
21A4P2	32	A685A22	21A8P1	S	x	x		
21A4P2	33	A673A22	21A8P1	D	x	x		
21A4P2	34	A687A22	21A8P1	U	x	x		
21A4P2	35	A677A22	21A8P1	H	x	x		
21A4P2	36	A684A22	21A8P1	R	x			
21A4P2	4	A696A22	21A8P2	B	x	x		
21A4P2	44	A695A22	21A8P2	A	x	x		
21A4P2	5	A704A22	21A8P2	K	x	x		
21A4P2	52	A670A22	21A8P1	A	x	x		
21A4P2	6	A711A22	21A8P2	T	x	x		
21A4P2	62	A714A22	21A8P2	W	x	x		
21A4P2	63	A715A22	21A8P2	X	x	x		
21A4P2	65	A718A22N	GND		x	x		
21A4P2	7	A705A22	21A8P2	L	x	x		
21A4P2	70	A720A22N	GND		x	x		
21A4P2	B	A697A22	21A8P2	C	x	x		
21A4P2	80	A690A22(BLU)	21A8P1	Y	x	x		
21A4P2	81	A690A22(WHT)	21A8P1	X	x	x		
21A4P2	82	A689A22	21A8P1	W	x	x		
21A4P2	87	A719A22N	GND		x	x		
21A4P2	88	A692A22N	GND		x	x		
21A4P2	9	A700A22	21A8P2	F	x	x		
21A5P1	A	A451B22	21P3	A			x	
21A5P1	<u>A</u>	A287A20	SHLD				x	
21A5P1	B	A452B20	21P3	B			x	
21A5P1	<u>B</u>	A289A20N	GND				x	
21A5P1	C	A453B20	21P3	C			x	
21A5P1	<u>C</u>	A536A20N	GND				x	
21A5P1	D	A454B20	21P3	D			x	
21A5P1	E	A455B20	21P3	E			x	
21A5P1	F	A456B20	21P3	F			x	
21A5P1	G	A457B20	21P3	G			x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
21A5P1	H	A458B20	21P3	H			x	
21A5P1	J	A459B20	21P3	J			x	
21A5P1	K	A460B20	21P3	K			x	
21A5P1	L	A461B20	21P3	L			x	
21A5P1	M	A462B20	21P3	M			x	
21A5P1	N	A463B20	21P3	N			x	
21A5P1	P	A464B20	21P3	P			x	
21A5P1	R	A465B20	21P3	R			x	
21A5P1	S	A466B20	21P3	S			x	
21A5P1	T	A467B20	21P3	T			x	
21A5P1	U	A468B20	21P3	U			x	
21A5P1	V	A469B20	21P3	V			x	
21A5P1	W	A286A20	CAP(SHLD)				x	
21A5P1	X	A288A20N	GND				x	
21A5P1	Y	A296A20	END CAP				x	
21A5P1	Z	A300A20N	GND				x	
21A5P1	1	A552J22(WHT)	SPLICE		x	x		
21A5P1	16	A636J22	SPLICE		x	x		
21A5P1	18	A559J22	SPLICE		x			
21A5P1	19	A31A22N	GND			x		
21A5P1	19	A558J22	SPLICE		x			
21A5P1	2	A552J22(BLU)	SPLICE		x	x		
21A5P1	36	A635J22	SPLICE		x	x		
21A5P1	37	A555B22	21P1	R	x	x		
21A5P1	6	A550J22	SPLICE		x	x		
21A5P2	1	A756A22	21A9P2	G	x	x		
21A5P2	10	A731A22	21A9P1	G	x	x		
21A5P2	11	A737A22	21A9P1	N	x	x		
21A5P2	12	A729A22	21A9P1	E	x	x		
21A5P2	13	A726A22	21A9P1	B	x	x		
21A5P2	14	A734A22	21A9P1	K	x	x		
21A5P2	15	A741A22	21A9P1	T	x	x		
21A5P2	16	A735A22	21A9P1	L	x	x		
21A5P2	17	A727A22	21A9P1	C	x	x		
21A5P2	18	A730A22	21A9P1	F	x	x		
21A5P2	19	A768A22	21A9P2	V	x	x		
21A5P2	2	A762A22	21A9P2	N	x	x		
21A5P2	20	A758A22	21A9P2	J	x	x		
21A5P2	21	A763A22	21A9P2	P	x	x		
21A5P2	22	A761A22	21A9P2	M	x	x		
21A5P2	23	A765A22	21A9P2	S	x	x		
21A5P2	24	A753A22	21A9P2	D	x	x		
21A5P2	25	A767A22	21A9P2	U	x	x		
21A5P2	26	A757A22	21A9P2	H	x	x		
21A5P2	27	A764A22	21A9P2	R	x	x		
21A5P2	28	A743A22	21A9P1	V	x	x		
21A5P2	29	A733A22	21A9P1	J	x	x		
21A5P2	3	A754A22	21A9P2	E	x	x		
21A5P2	30	A738A22	21A9P1	P	x	x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
21A5P2	31	A736A22	21A9P1	M	x	X		
21A5P2	32	A740A22	21A9P1	S	x	x		
21A5P2	33	A728A22	21A9P1	D	x	x		
21A5P2	34	A742A22	21A9P1	U	x	x		
21A5P2	35	A732A22	21A9P1	H	x	x		
21A5P2	36	A739A22	21A9P1	R	x	x		
21A5P2	4	A751A22	21A9P2	B	x	x		
21A5P2	44	A750A22	21A9P2	A				
21A5P2	5	A759A22	21A9P2	K	x	x		
21A5P2	52	A725A22	21A9P1	A	x	x		
21A5P2	6	A766A22	21A9P2	T	x	x		
21A5P2	62	A769A22	21A9P2	W	x	x		
21A5P2	63	A770A22	21A9P2	X	x	x		
21A5P2	65	A773A22N	GND		x	x		
21A5P2	7	A760A22	21A9P2	L	x	x		
21A5P2	70	A775A22A	GND			x		
21A5P2	70	A775A22N	GND		x			
21A5P2	8	A752A22	21A9P2	C	x	x		
21A5P2	80	A745A22(BLU)	21A9P1	Y	x	x		
21A5P2	81	A745A22(WHT)	21A9P1	X	x	x		
21A5P2	82	A744A22	21A9P1	W	x	x		
21A5P2	87	A774A22N	GND		x	x		
21A5P2	88	A747A22N	GND		x	x		
21A5P2	9	A755A22	21A9P2	F	x	x		
21A6P1	A	A560A22	21A2P2	52	x	x		
21A6P1	A	A21B20	21P2	H			x	
21A6P1	A	A283A20	GND(SHLD)				x	
21A6P1	B	A22B20	21P2	G			x	
21A6P1	B	A561A22	21A2P2	13	x	x		
21A6P1	B	A285A20N	GND				x	
21A6P1	C	A562A22	21A2P2	17	x	x		
21A6P1	C	A23B20	21P2	E			x	
21A6P1	C	A539A20N	GND				x	
21A6P1	D	A563A22	21A2P2	33	x	x		
21A6P1	D	A24B20	21P2	E			x	
21A6P1	E	A564A22	21A2P2	12	x	x		
21A6P1	E	A25B20	21P2	D			x	
21A6P1	F	A565A22	21A2P2	18	x	x		
21A6P1	F	A26B20	21P2	C			x	
21A6P1	G	A566A22	21A2P2	10	x	x		
21A6P1	G	A27B20	21P2	G			x	
21A6P1	H	A567A22	21A2P2	35	x	x		
21A6P1	H	A28B20	21P2	H			x	
21A6P1	J	A568A22	21A2P2	29	x	x		
21A6P1	J	A29B20	21P2	J			x	
21A6P1	K	A569A22	21A2P2	14	x	x		
21A6P1	K	A30B20	21P2	K			x	
21A6P1	L	A570A22	21A2P2	16	x	x		
21A6P1	L	A31B20	21P2	L			x	

END		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
21A6P1	M	A571A22	21A2P2	31	x	x		
21A6P1	M	A32B20	21P2	M			x	
21A6P1	N	A572A22	21A2P2	11	x	x		
21A6P1	N	A33B20	21P2	N			x	
21A6P1	P	A573A22	21A2P2	30	x	x		
21A6P1	P	A34B20	21P2	P			x	
21A6P1	R	A574A22	21A2P2	36	x	x		
21A6P1	R	A35B20	21P2	R			x	
21A6P1	S	A575A22	21A2P2	32	x	x		
21A6P1	S	A36B20	21P2	S			x	
21A6P1	T	A576A22	21A2P2	15	x	x		
21A6P1	T	A37B20	21P2	T			x	
21A6P1	U	A577A22	21A2P2	34	x	x		
21A6P1	U	A38B20	21P2	U			x	
21A6P1	V	A578A22	21A2P2	28	x	x		
21A6P1	V	A39B20	21P2	V			x	
21A6P1	W	A579A22	21A2P2	82	x	x		
21A6P1	W	A282A20	GND(SHLD)				x	
21A6P1	X	A580A22(WHT)	21A2P2	81	x	x		
21A6P1	X	A284A20N	GND				x	
21A6P1	Y	A580A22(BLU)	21A2P2	80	x	x		
21A6P1	Y	A295A20	GND				x	
21A6P1	Z	A299A20N	GND				x	
21A6P1	Z	A581A16N	GND		x	x		
21A6P2	A	A585A22	21A2P2	44	x	x		
21A6P2	B	A586A22	21A2P2	4	x	x		
21A6P2	C	A587A22	21A2P2	8	x	x		
21A6P2	D	A588A22	21A2P2	24	x	x		
21A6P2	E	A589A22	21A2P2	3	x	x		
21A6P2	F	A590A22	21A2P2	9	x	x		
21A6P2	G	A591A22	21A2P2	1	x	x		
21A6P2	H	A592A22	21A2P2	26	x	x		
21A6P2	J	A593A22	21A2P2	20	x	x		
21A6P2	K	A594A22	21A2P2	5	x	x		
21A6P2	L	A595A22	21A2P2	7	x	x		
21A6P2	M	A596A22	21A2P2	22	x	x		
21A6P2	N	A597A22	21A2P2	2	x	x		
21A6P2	P	A598A22	21A2P2	21	x	x		
21A6P2	R	A599A22	21A2P2	27	x	x		
21A6P2	S	A600A22	21A2P2	23	x	x		
21A6P2	T	A601A22	21A2P2	6	x	x		
21A6P2	U	A602A22	21A2P2	25	x	x		
21A6P2	V	A603A22	21A2P2	19	x	x		
21A6P2	W	A604A22	21A2P2	62	x	x		
21A6P2	X	A605A22	21A2P2	65	x			
21A6P2	X	A605A22	21A2P2	63		x		
21A6P2	Y	A606A22N	GND		x	x		
21A6P2	Z	A607A22N	GND		x	x		
21A7J2	Y	A661A22A	GND			x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN				
21A7P1	A	A1B20	21P1	H			x	
21A7P1	A	A611A22	21A3P2	52	x	x		
21A7P1	A	A279A20	GND(SHLD)				x	
21A7P1	B	A2B20	21P1	G			x	
21A7P1	B	A612A22	21A3P2	13	x			
21A7P1	B	A612A22	21A3P2	15		x		
21A7P1	B	A281A20N	GND				x	
21A7P1	C	A3B20	21P1	F			x	
21A7P1	C	A613A22	21A3P2	17	x	x		
21A7P1	C	A642A22	21A3P2	8		x		
21A7P1	C	A537A20N	GND				x	
21A7P1	D	A4B20	21P1	E			x	
21A7P1	D	A614A22	21A3P2	33	x	x		
21A7P1	E	A5B20	21P1	D			x	
21A7P1	E	A615A22	21A3P2	12	x	x		
21A7P1	F	A6B20	21P1	C			x	
21A7P1	F	A616A22	21A3P2	18	x	x		
21A7P1	G	A7B20	21P1	G			x	
21A7P1	G	A617A22	21A3P2	10	x	x		
21A7P1	H	A8B20	21P1	H			x	
21A7P1	H	A618A22	21A3P2	35	x	x		
21A7P1	J	A9B20	21P1	J			x	
21A7P1	J	A619A22	21A3P2	29	x	x		
21A7P1	K	A10B20	21P1	K			x	
21A7P1	K	A620A22	21A3P2	14	x	x		
21A7P1	L	A11B20	21P1	L			x	
21A7P1	L	A621A22	21A3P2	16	x	x		
21A7P1	M	A12B20	21P1	M			x	
21A7P1	M	A622A22	21A3P2	31	x	x		
21A7P1	N	A13B20	21P1	N			x	
21A7P1	N	A623A22	21A3P2	11	x	x		
21A7P1	P	A14B20	21P1	P			x	
21A7P1	P	A624A22	21A3P2	30	x	x		
21A7P1	R	A15B20	21P1	R			x	
21A7P1	R	A625A22	21A3P2	36	x	x		
21A7P1	S	A16B20	21P1	S			x	
21A7P1	S	A626A22	21A3P2	32	x	x		
21A7P1	T	A17B20	21P1	T			x	
21A7P1	T	A627A22	21A3P2	15	x	x		
21A7P1	U	A18B20	21P1	U			x	
21A7P1	U	A628A22	21A3P2	34	x	x		
21A7P1	V	A19B20	21P1	V			x	
21A7P1	V	A629A22	21A3P2	28	x	x		
21A7P1	W	A278A20	GND(SHLD)				x	
21A7P1	W	A630A22	21A3P2	82	x	x		
21A7P1	X	A280A20N	GND				x	
21A7P1	X	A631A22(WHT)	21A3P2	81	x	x		
21A7P1	Y	A294A20	GND(SHLD)				x	
21A7P1	Y	A631A22	21A3P2	80	x	x		

END		WIRE NO.	END		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
21A7P1	Z	A298A20N	GND				X	
21A7P1	Z	A632A16N	GND		X	X		
21A7P2	A	A640A22	21A3P2	44	X	X		
21A7P2	B	A641A22	21A3P2	4	X	X		
21A7P2	C	A642A22	21A3P2	8	X			
21A7P2	D	A643A22	21A3P2	24	X	X		
21A7P2	E	A644A22	21A3P2	3	X	X		
21A7P2	F	A645A22	21A3P2	9	X	X		
21A7P2	G	A646A22	21A3P2	1	X	X		
21A7P2	H	A647A22	21A3P2	26	X	X		
21A7P2	J	A648A22	21A3P2	20	X	X		
21A7P2	K	A649A22	21A3P2	5	X	X		
21A7P2	L	A650A22	21A3P2	7	X	X		
21A7P2	M	A651A22	21A3P2	22	X	X		
21A7P2	N	A652A22	21A3P2	2	X	X		
21A7P2	P	A653A22	21A3P2	21	X	X		
21A7P2	R	A654A22	21A3P2	27	X	X		
21A7P2	S	A655A22	21A3P2	23	X	X		
21A7P2	T	A656A22	21A3P2	6	X	X		
21A7P2	U	A657A22	21A3P2	25	X	X		
21A7P2	V	A658A22	21A3P2	19	X	X		
21A7P2	W	A659A22	21A3P2	62	X	X		
21A7P2	X	A660A22	21A3P2	63	X	X		
21A7P2	Y	A661A22N	GND		X			
21A7P2	Z	A662A22N	GND		X	X		
21A8P1	A	A68B16	21P1	M			X	
21A8P1	A	A670A22	21A4P2	52	X	X		
21A8P1	B	A671A22	21A4P2	13	X	X		
21A8P1	C	A672A22	21A4P2	17	X	X		
21A8P1	C	A447H20	21J1	Y	X	X	X	
21A8P1	D	A69A16N	GND				X	
21A8P1	D	A673A22	21A4P2	33	X	X		
21A8P1	E	A674A22	21A4P2	12	X	X		
21A8P1	F	A675A22	21A4P2	18	X	X		
21A8P1	G	A676A22	21A4P2	10	X	X		
21A8P1	H	A677A22	21A4P2	35	X	X		
21A8P1	J	A678A22	21A4P2	29	X	X		
21A8P1	K	A679A22	21A4P2	14	X	X		
21A8P1	L	A680A22	21A4P2	16	X	X		
21A8P1	M	A681A22	21A4P2	31	X	X		
21A8P1	N	A682A22	21A4P2	11	X	X		
21A8P1	P	A683A22	21A4P2	30	X	X		
21A8P1	R	A684A22	21A4P2	36	X			
21A8P1	S	A685A22	21A4P2	32	X	X		
21A8P1	T	A686A22	21A4P2	15	X	X		
21A8P1	U	A687A22	21A4P2	34	X	X		
21A8P1	V	A688A22	21A4P2	28	X	X		
21A8P1	W	A689A22	21A4P2	82	X	X		
21A8P1	X	A690A22(WHT)	21A4P2	81	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
21A8P1	Y	A690A22(BLU)	21A4P2	80	x	x		
21A8P1	Z	A691A16N	GND		x	x		
21A8P2	A	A695A22	21A4P2	44	x	x		
21A8P2	B	A696A22	21A4P2	4	x	x		
21A8P2	C	A697A22	21A4P2	8	x	x		
21A8P2	D	A698A22	21A4P2	24	x	x		
21A8P2	E	A699A22	21A4P2	3	x	x		
21A8P2	F	A700A22	21A4P2	9	x	x		
21A8P2	G	A701A22	21A4P2	1	x	x		
21A8P2	H	A702A22	21A4P2	26	x	x		
21A8P2	J	A703A22	21A4P2	20	x	x		
21A8P2	K	A704A22	21A4P2	5	x	x		
21A8P2	L	A705A22	21A4P2	7	x	x		
21A8P2	M	A706A22	21A4P2	22	x	x		
21A8P2	N	A707A22	21A4P2	2	x	x		
21A8P2	P	A708A22	21A4P2	21	x	x		
21A8P2	R	A709A22	21A4P2	27	x	x		
21A8P2	S	A710A22	21A4P2	23	x	x		
21A8P2	T	A711A22	21A4P2	6	x	x		
21A8P2	U	A712A22	21A4P2	25	x	x		
21A8P2	V	A713A22	21A4P2	19	x	x		
21A8P2	W	A714A22	21A4P2	62	x	x		
21A8P2	X	A715A22	21A4P2	63	x	x		
21A8P2	Y	A716A22N	GND		x	x		
21A8P2	Z	A717A22N	GND		x	x		
21A9P1	A	A71B16	21P2	<u>M</u>			x	
21A9P1	A	A447K20	21P2	W			x	
21A9P1	A	A725A22	21A5P2	52	x	x		
21A9P1	B	A776A22	21A5P2	13	x	x		
21A9P1	C	A727A22	21A5P2	17	x	x		
21A9P1	D	A72A16N	GND				x	
21A9P1	D	A728A22	21A5P2	33	x	x		
21A9P1	E	A729A22	21A5P2	12	x	x		
21A9P1	F	A730A22	21A5P2	18	x	x		
21A9P1	G	A731A22	21A5P2	10	x	x		
21A9P1	H	A732A22	21A5P2	35	x	x		
21A9P1	J	A733A22	21A5P2	29	x	x		
21A9P1	K	A734A22	21A5P2	14	x	x		
21A9P1	L	A735A22	21A5P2	16	x	x		
21A9P1	M	A736A22	21A5P2	31	x	x		
21A9P1	N	A737A22	21A5P2	11	x	x		
21A9P1	P	A738A22	21A5P2	30	x	x		
21A9P1	R	A739A22	21A5P2	36	x	x		
21A9P1	S	A740A22	21A5P2	32	x	x		
21A9P1	T	A741A22	21A5P2	15	x	x		
21A9P1	U	A742A22	21A5P2	34	x	x		
21A9P1	V	A743A22	21A5P2	28	x	x		
21A9P1	W	A744A22	21A5P2	82	x	x		
21A9P1	X	A745A22(WHT)	21A5P2	81	x	x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
21A9P1	Y	A745A22(BLU)	21A5P2	80	x	x		
21A9P1	Z	A746A16N	GND		x	x		
21A9P2	A	A750A22	21A5P2	44	x	x		
21A9P2	B	A751A22	21A5P2	4	x	x		
21A9P2	C	A752A22	21A5P2	8	x	x		
21A9P2	D	A753A22	21A5P2	24	x	x		
21A9P2	E	A754A22	21A5P2	3	x	x		
21A9P2	F	A755A22	21A5P2	9	x	x		
21A9P2	G	A756A22	21A5P2	1	x	x		
21A9P2	H	A757A22	21A5P2	26	x	x		
21A9P2	J	A758A22	21A5P2	20	x	x		
21A9P2	K	A759A22	21A5P2	5	x	x		
21A9P2	L	A760A22	21A5P2	7	x	x		
21A9P2	M	A761A22	21A5P2	22	x	x		
21A9P2	N	A762A22	21A5P2	2	x	x		
21A9P2	P	A763A22	21A5P2	21	x	x		
21A9P2	R	A764A22	21A5P2	27	x	x		
21A9P2	S	A765A22	21A5P2	23	x	x		
21A9P2	T	A766A22	21A5P2	6	x	x		
21A9P2	U	A767A22	21A5P2	25	x	x		
21A9P2	V	A768A22	21A5P2	19	x	x		
21A9P2	W	A769A22	21A5P2	62	x	x		
21A9P2	X	A770A22	21A5P2	63	x	x		
21A9P2	Y	A771A22N	GND		x	x		
21A9P2	Z	A772A22N	GND		x	x		
21CB1		A509A20	3A1J1	HH			x	
21CB1		P66A12	2K2	A2			x	
21CB2		A76A20	3A1P1	KK	x	x		
21CB2		A308A20	3A1P1	KK			x	
21CB2		A509B20	3A1P1	HH			x	
21CB3		A172E16	3A1P1	LL	x	x		
21CB3		A172F16	19CB8		x	x		
21CB3		A467A16	3A1P1	DD		x	x	
21CB4		A172C16	3A1P1	JJ	x	x		
21CB4		A172K16	16CB6			x		
21CB4		A470A16	3A1P1	EE	x	x	x	
21CB5		A271A20	1TB13	6			x	
21CB5		A346C16	19CB6		x	x		
21CB5		A271A20	3A1P1	HH	x	x		
21CB6		A359A16	3A1P1	FF			x	
21CB6		A359A20	3A1P1	P	x	x		
21DS1	1	A521A20N	GND				x	
21DS1	2	A520A20	21S6	2			x	
21DS1	3	A528X20	21A1J1	J			x	
21J1	A	L7E22	1TB3	H9		x	x	
21J1***	B	L901T20	TB1	1	x	x	x	
21J1	C	A6A20	21A3P2	F			x	
21J1	D	A5A20	21A3P2	E			x	
21J1	E	A4A20	21A3P2	D			x	
21J1	E	TG382B22(WHT)	SPLICE		x	x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
21J1	F	A3A20	21A3P2	C			X	
21J1	F	TG382B22(BLU)	SPLICE		X	X		
21J1	G	A2A20	21A3P2	B			X	
21J1	G	A7A20	21A3P2	G			X	
21J1	G	TG380A22(WHT)	20A20P1	W	X	X		
21J1	H	A1A20	21A3P2	A			X	
21J1	H	A8A20	21A3P2	H			X	
21J1	H	TG380A22(BLU)	20A20P1	X	X	X		
21J1	I	TG378B22(WHT)	SPLICE		X	X		
21J1	J	A9A20	21A3P2	J			X	
21J1	J	A552F22(WHT)	SPLICE		X			
21J1	J	TG378B22(BLU)	SPLICE		X	X		
21J1	K	A10A20	21A3P2	K			X	
21J1	K	A552F22(BLU)	SPLICE		X			
21J1	K	TG384B22(WHT)	SPLICE		X	X		
21J1	L	A11A20	21A3P2	L			X	
21J1	M	A12A20	21A3P2	M			X	
21J1	M	A559F20	SPLICE		X			
21J1	M	A68A16	21K1	B1	X	X	X	
21J1	N	A13A20	21A3P2	N			X	
21J1	N	A636F20	SPLICE		X			
21J1	N	TG384B22(BLU)	SPLICE		X	X		
21J1	P	A14A20	21A3P2	P			X	
21J1	P	A635F20	SPLICE		X	X		
21J1	P	A56B20	SPLICE		X	X		
21J1	Q	A273B20	SPLICE		X	X	X	
21J1	HIEL	A242A22N	GND				X	
21J1	HIEL	A243A22N	GND				X	
21J1	HIEL	A241A22N	GND					
21J1	R	A15A20	21A3P2	R			X	
21J1	R	A555A22	21A1P1	58	X			
21J1	S	A16A20	21A3P2	S			X	
21J1	S	A556A22	21A1P1	59	X			
21J1	T	A17A20	21A3P2	T			X	
21J1	U	A18A20	21A3P2	U			X	
21J1	U	A550F20	SPLICE		X	X		
21J1	V	A19A20	21A3P2	V			X	
21J1	V	A558F20	SPLICE		X	X		
21J1	W	A58F20	SPLICE		X	X		
21J1	X	A58E20	SPLICE				X	
21J1	X	A272D20	SPLICE		X	X	X	
21J1	Y	A447H20	21A8P1	C	X	X	X	
21J2***	B	L901P20	TB1	3	X	X	X	
21J2	C	A26A20	21A3P3	F			X	
21J2	D	A25A20	21A3P3	E			X	
21J2	E	A24A20	21A3P3	D			X	
21J2	E	TG359B22(WHT)	SPLICE		X	X		
21J2	F	A23A20	21A3P3	C			X	
21J2	F	TG359B22(BLU)	SPLICE		X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
21J2	G	A27A20	21A3P3	G			X	
21J2	<u>G</u>	A22A20	21A3P3	B			X	
21J2	<u>G</u>	TG357A22(WHT)	20A20P2	U	X	X		
21J2	<u>H</u>	A28A20	21A3P3	H			X	
21J2	<u>H</u>	A21A20	21A3P3	A			X	
21J2	<u>H</u>	TG357A22(BLU)	20A20P2	V	X	X		
21J2	<u>I</u>	TG355B22(WHT)	SPLICE		X	X		
21J2	J	A29A20	21A3P3	J			X	
21J2	J	A552B22(WHT)	SPLICE		X	X		
21J2	J	A636B20	SPLICE			X		
21J2	<u>J</u>	TG355B22(BLU)	SPLICE		X	X		
21J2	K	A30A20	21A3P3	K			X	
21J2	K	A552B22(BLU)	SPLICE		X	X		
21J2	<u>K</u>	TG361B22(WHT)	SPLICE		X	X		
21J2	L	A31A20	21A3P3	L			X	
21J2	M	A32A20	21A3P3	M			X	
21J2	M	A559B20	SPLICE		X			
21J2	<u>M</u>	A71A16	21K1	A1	X	X	X	
21J2	N	A33A20	21A3P3	N			X	
21J2	N	A636B20	SPLICE		X			
21J2	N	A636F20	SPLICE			X		
21J2	<u>N</u>	TG361B22(BLU)	SPLICE		X	X		
21J2	P	A34A20	21A3P3	P			X	
21J2	P	A635B20	SPLICE		X	X		
21J2	<u>P</u>	A56D20	SPLICE		X	X		
21J2	<u>Q</u>	A273D20	SPLICE		X	X		
21J2	<u>R</u>	A35A20	21A3P3	R			X	
21J2	R	A553A22	21A1P1	56	X			
21J2	S	A36A20	21A3P3	S			X	
21J2	S	A554A22	21A1P1	57	X			
21J2	T	A37A20	21A3P3	T			X	
21J2	U	A38A20	21A3P3	U			X	
21J2	U	A550B20	SPLICE		X	X		
21J2	V	A39A20	21A3P3	V			X	
21J2	V	A558B20	SPLICE		X	X		
21J2	W	A58H20	SPLICE		X	X		
21J2	X	A58G20	SPLICE				X	
21J2	X	A272F20	SPLICE		X	X		
21J2	Y	A272G20	SPLICE				X	
21J2	Y	A447F20	19TB4	A14	X	X	X	
21J2	<u>A</u>	A451A20	21A2P2	A			X	
21J3	<u>A</u>	TG382B22(WHT)	SPLICE				X	
21J3	<u>B</u>	A452A20	21A2P2	B			X	
21J3	<u>B</u>	TG382B22(BLU)	SPLICE				X	
21J3	<u>C</u>	A453A20	21A2P2	C			X	
21J3	<u>C</u>	TG380A22(WHT)	20A20P1	W			X	
21J3	<u>D</u>	A454A20	21A2P2	D			X	
21J3	D	TG380A22(BLU)	20A20P1	X			X	
21J3	<u>D</u>	TG380D22(BLU)	20B1J1	D			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
21J3	<u>E</u>	A455A20	21A2P2	E			X	
21J3	<u>E</u>	TG378B22(WHT)	SPLICE				X	
21J3	<u>E</u>	TG378D22(WHT)	20B1J1	E			X	
21J3	<u>F</u>	A456A20	21A2P2	F			X	
21J3	<u>F</u>	TG378B22(BLU)	SPLICE				X	
21J3	<u>G</u>	A457A20	21A2P2	G			X	
21J3	<u>H</u>	A458A20	21A2P2	H			X	
21J3	<u>J</u>	A459A20	21A2P2	J			X	
21J3	<u>K</u>	A460A20	21A2P2	K			X	
21J3	<u>L</u>	A461A20	21A2P2	L			X	
21J3	<u>N</u>	A463A20	21A2P2	N			X	
21J3	<u>N</u>	TG384B22(WHT)	SPLICE				X	
21J3	<u>P</u>	A464A20	21A2P2	P			X	
21J3	<u>P</u>	TG384B22(BLU)	SPLICE				X	
21J3	<u>T</u>	A467A20	21A2P2	T			X	
21J3	<u>U</u>	A468A20	21A2P2	U			X	
21J3	<u>V</u>	A469A20	21A2P2	V			X	
21J3	<u>X</u>	A56B20	SPLICE				X	
21J4	<u>A</u>	A471A20	21A2P3	A			X	
21J4	<u>A</u>	TG359B22(WHT)	SPLICE				X	
21J4	<u>B</u>	A472A20	21A2P3	B			X	
21J4	<u>B</u>	TG359B22(BLU)	SPLICE				X	
21J4	<u>C</u>	A473A20	21A2P3	C			X	
21J4	<u>C</u>	TG357A22(WHT)	20A20P2	U			X	
21J4	<u>D</u>	TG357A22(BLU)	20A20P2	V			X	
21J4	<u>E</u>	A474A20	21A2P3	D			X	
21J4	<u>E</u>	A475A20	21A2P3	E			X	
21J4	<u>E</u>	TG355B22(WHT)	SPLICE				X	
21J4	<u>F</u>	A476A20	21A2P3	F			X	
21J4	<u>F</u>	TG355B22(BLU)	SPLICE				X	
21J4	<u>G</u>	A477A20	21A2P3	G			X	
21J4	<u>H</u>	A478A20	21A2P3	H			X	
21J4	<u>J</u>	A479A20	21A2P3	J			X	
21J4	<u>K</u>	A480A20	21A2P3	K			X	
21J4	<u>L</u>	A481A20	21A2P3	L			X	
21J4	<u>M</u>	A482A20	21A2P3	M			X	
21J4	<u>N</u>	A483A20	21A2P3	N			X	
21J4	<u>N</u>	TG361B22(WHT)	SPLICE				X	
21J4	<u>P</u>	A484A20	21A2P3	P			X	
21J4	<u>P</u>	TG361B22(BLU)	SPLICE				X	
21J4	<u>R</u>	A485A20	21A2P3	R			X	
21J4	<u>S</u>	A486A20	21A2P3	S			X	
21J4	<u>T</u>	A487A20	21A2P3	T			X	
21J4	<u>U</u>	A488A20	21A2P3	U			X	
21J4	<u>V</u>	A489A20	21A2P3	V			X	
21J4	<u>X</u>	A56D20	SPLICE				X	
21J4	<u>Y</u>	A273D20	SPLICE				X	
21K1	<u>A1</u>	A71A16	21J2	<u>M</u>	X	x	X	
21K1	<u>A2</u>	A470B16	3A1J1	<u>EE</u>	x	x	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
21K1	B1	A68A16	21J1	M	x	x	x	
21K1	B2	A467B16	3A1J1	DD	x	x	x	
21K1	X1	A528U20	19TB4	C5	x	x	x	
21K1	X2	A829A20N	GND		x	x		
21K3P1	A	A87A20N	GND		x	x	x	
21K3P1	C	A58E20	SPLICE		x	x		
21K3P1	D	A76C20	SPLICE				x	
21K3P1	D	A76F20	SPLICE		x	x		
21K3P1	E	A62B20	4A2J1	W	x	x	x	
21K3P1	F	A44A20N	GND		x	x		
21K3P1	G	A20A20	22A1P1	H	x	x	x	
21K3P1	K	A76B20	SPLICE				x	
21K3P1	K	A76C20	SPLICE		x	x		
21K4P1	D	A273A20	SPLICE		x	x	x	
21K4P1	A	A510A20N	GND		x	x	x	
21K4P1	D	A273A20	SPLICE		x	x	x	
21K4P1	D	A508B20	SPLICE				x	
21K4P1	G	A273A20	SPLICE				x	
21K4P1	G	A508B20	SPLICE		x	x		
21K4P1	H	A43A20N	GND		x	x		
21K4P1	K	A508C20	SPLICE		x	x	x	
21K5P1	A	A511A22N	GND		x	x	x	
21K5P1	D	A52A22N	GND		x	x		
21K5P1	D	A56A20	SPLICE		x	x		
21K5P1	D	A513B20	SPLICE				x	
21K5P1	G	A56A20	SPLICE				x	
21K5P1	G	A513B20	GND		x			
21K5P1	G	A513B20	SPLICE			x		
21K5P1	H	A42A20N	GND		x	x		
21K5P1	K	A513C20	SPLICE		x	x	x	
21K7P1	C	A306A20	19A1J3	K			x	
21K7P1	F	A306B20	19A3J1	K			x	
21K7P1	A	A512A20N	GND			x	x	
21K7P1	A	A512A22N	GND		x			
21K7P1	C	A319A22	19XK88	A2	x			
21K7P1	C	A319A22	22A5P1	152		x		
21K7P1	D(SHLD)	A92A22	GND			x		
21K7P1	E	A141C22	19TB4	H18	x	x		
21K7P1	E	A334A20	19TB4	G15			x	
21K7P1	F	A279A22	22A4P15	S	x			
21K7P1	F	A279B22	SPLICE		x	x		
21K7P1	H	A326C22	19TB4	G12		x		
21K7P1	K	A528W20	19TB4	A5	x	x	x	
21P1	A	L7F22	8DS1	R	x	x	x	
21P1***	B	1901U20	LH WG LT		x	x	x	
21P1	C	A6B20	21A7P1	F			x	
21P1	D	A5B20	21A7P1	E			x	
21P1	E	A4B20	21A7P1	D			x	
21P1	F	TG382D22(WHT)	20B1J1	A	x	x		
21P1	G	A3B20	21A7P1	C			x	
21P1	H	TG382D22(BLU)	20B1J1	B	x	x		
21P1	I	A7B20	21A7P1	G			x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
21P1	G	A2B20	21A7P1	B			X	
21P1		TG380D22(WHT)	20B1J1	C	X	X		
21P1		A1B20	21A7P1	A			X	
21P1		A8B20	21A7P1	H			X	
21P1		TG380D22(BLU)	20B1J1	D	X	X		
21P1	H	TG378D22(WHT)	20B1J1	E	X	X		
21P1		A9B20	21A7P1	J			X	
21P1		A552G22(WHT)	SPLICE		X	X		
21P1		TG378D22(BLU)	20B1J1	F	X	X		
21P1		A10B20	21A7P1	K			X	
21P1	I	A552G22(BLU)	SPLICE		X	X		
21P1		TG384D22(WHT)	20L2P1	A	X	X		
21P1		A11B20	21A7P1	L			X	
21P1		AT2B20	21A7P1	M			X	
21P1		A559G20	SPLICE		X			
21P1	J	A68B16	21A8P1	A			X	
21P1		A68B16	21A11P1	A	X	X		
21P1		A13B20	21A7P1	N			X	
21P1		A636G20	SPLICE		X	X		
21P1		TG384D22(BLU)	20L2P1	B	X	X		
21P1	K	A14B20	21A7P1	P			X	
21P1		A635G20	SPLICE		X			
21P1		A56C20	21SQ2J1	A	X	X		
21P1		A273C20	21SQ2J1	B	X	X		
21P1		A15B20	21A7P1	R			X	
21P1	L	A555B20	21A5P1	37	X	X		
21P1		A16B20	21A7P1	S			X	
21P1		A556B22	21A4P1	37	X	X		
21P1		A17B20	21A7P1	T			X	
21P1		A18B20	21A7P1	U			X	
21P1	M	A550G20	SPLICE		X	X		
21P1		A19B20	21A7P1	V			X	
21P1		A558G20	SPLICE		X	X		
21P1		A58G20	21SQ1J1	A	X	X		
21P1		A58F20	21SQ1J1	A			X	
21P1	N	A272E20	21SQ1J1	B	X	X		
21P1		A272F20	21SQ1J1	B			X	
21P1		A447J20	21A11P1	C	X	X	X	
21P2		L7C22	1TB3	G9	X	X	X	
21P2		L7D22	8DS2	G	X	X	X	
21P2	O	1901R20	RH WG LT		X	X	X	
21P2		A26B20	21A6P1	F			X	
21P2		A25B20	21A6P1	E			X	
21P2		A24B20	21A6P1	D			X	
21P2		TG359D22(WHT)	20B2J1	A	X	X		
21P2	P	A23B20	21A6P1	C			X	
21P2		TG359D22(BLU)	20B2J1	B	X	X		
21P2		A27B20	21A6P1	G			X	
21P2		A22B20	21A6P1	B			X	
21P2		TG357B22(WHT)	20B2J1	C	X	X		
21P2	Q	A28B20	21A6P1	H			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	<u>L</u>	<u>M</u>	<u>P</u>	
21P2	H	A21B20	21A6P1	A			X	
21P2	h	TG357B22(BLU)	20B2J1	D	X	X		
21P2	i	TG355D22(WHT)	20B2J1	E	X	X		
21P2	J	A29B20	21A6P1	J			X	
21P2	J	A552C22(WHT)	SPLICE		X	X		
21P2	K	TG355D22(BLU)	20B2J1	F	X	X		
21P2	K	A30B20	21A6P1	K			X	
21P2	K	A552C22(BLU)	SPLICE		X	X		
21P2	L	TG361D22(WHT)	20L3P1	A	X	X		
21P2	M	A31B20	21A6P1	L			X	
21P2	M	A32B20	21A6P1	M			X	
21P2	M	A71B16	21A9P1	A			X	
21P2	M	A559C20	SPLICE		X			
21P2	N	A71B16	21A10P1	A	X	X		
21P2	N	A33B20	21A6P1	N			X	
21P2	N	A636C20	SPLICE		X	X		
21P2	P	TG361D22(BLU)	20L3P1	B	X	X		
21P2	P	A34B20	21A6P1	P			X	
21P2	P	A635C20	SPLICE		X	X		
21P2	P	A635G20	SPLICE			X		
21P2	q	A56E20	21SQ4J1	A	X	X		
21P2	R	A273E20	21SQ4J1	B	X	X		
21P2	R	A35B20	21A6P1	R			X	
21P2	S	A553B22	21A2P1	37	X	X		
21P2	S	A36B20	21A6P1	S			X	
21P2	T	A554B22	21A3P1	37	X	X		
21P2	U	A37B20	21A6P1	T			X	
21P2	U	A38B20	21A6P1	U			X	
21P2	V	A550C22	SPLICE		X	X		
21P2	V	A39B20	21A6P1	V			X	
21P2	W	A558C20	SPLICE		X	X		
21P2	W	A58J20	21SQ3J1	A	X	X		
21P2	X	A447K20	21A9P1	A			X	
21P2	X	A58H20	21SQ3J1	A			X	
21P2	Y	A272G20	21SQ3J1	B	X	X		
21P2	Y	A272H20	21SQ3J1	B			X	
21P2	Y	A447G20	21A10P1	C	X	X	X	
21P3	A	A451B22	21A5P1	A			X	
21P3	A	TG382B22(WHT)	20B1J1	A			X	
21P3	B	A452B20	21A5P1	B			X	
21P3	B	TG382B22(BLU)	20B1J1	B			X	
21P3	C	A453B20	21A5P1	C			X	
21P3	C	TG380D22(WHT)	20B1J1	C			X	
21P3	D	A454B20	21A5P1	D			X	
21P3	E	A455B20	21A5P1	E			X	
21P3	F	A456B20	21A5P1	F			X	
21P3	F	TG378D22(BLU)	20B1J1	F			X	
21P3	G	A457B20	21A5P1	G			X	
21P3	H	A458B20	21A5P1	H			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
21P3	J	A459B20	21A5P1	J				
21P3	K	A460B20	21A5P1	K			X	
21P3	L	A461B20	21A5P1	L			X	
21P3	M	A462A20	21A2P2	M			X	
21P3	M	A462B20	21A5P1	M			X	
21P3	<u>N</u>	TG384D22(WHT)	20L2P1	A			X	
21P3	N	A463B20	21A5P1	N			X	
21P3	P	A464B20	21A5P1	P			X	
21P3	<u>P</u>	TG384D22(BLU)	20L2P1	B			X	
21P3	R	A465B20	21A5P1	R			X	
21P3	S	A466A20	21A2P2	S			X	
21P3	S	A466B20	21A5P1	S			X	
21P3	T	A467B20	21A5P1	T			X	
21P3	U	A468B20	21A5P1	U			X	
21P3	V	A469B20	21A5P1	V			X	
21P3	X	A56C20	21SQ2J1	A			X	
21P3	Y	A273C20	21SQ2J1	B			X	
21P4	A	A471B20	21A4P1	A			X	
21P4	<u>A</u>	TG359D22(WHT)	20B2J1	A			X	
21P4	B	A472B20	21A4P1	B			X	
21P4	<u>B</u>	TG359D22(BLU)	20B2J1	B			X	
21P4	C	A473B20	21A4P1	C			X	
21P4	<u>C</u>	TG357B22(WHT)	20B2J1	C			X	
21P4	D	A474B20	21A4P1	D			X	
21P4	<u>D</u>	TG357B22(BLU)	20B2J1	D			X	
21P4	E	A475B20	21A4P1	E			X	
21P4	<u>E</u>	TG355D22(WHT)	20B2J1	E			X	
21P4	F	A476B20	21A4P1	F			X	
21P4	<u>E</u>	TG355D22(BLU)	20B2J1	F			X	
21P4	G	A477B20	21A4P1	G			X	
21P4	H	A478B20	21A4P1	H			X	
21P4	J	A479B20	21A4P1	J			X	
21P4	K	A480B20	21A4P1	K			X	
21P4	L	A481B20	21A4P1	L			X	
21P4	M	A482B20	21A4P1	M			X	
21P4	<u>N</u>	TG361D22(WHT)	20L3P1	A			X	
21P4	N	A483B20	21A4P1	N			X	
21P4	P	A484B20	21A4P1	P			X	
21P4	<u>P</u>	TG361D22(BLU)	20L3P1	B			X	
21P4	R	A485B20	21A4P1	R			X	
21P4	S	A486B20	21A4P1	S			X	
21P4	T	A487B20	21A4P1	T			X	
21P4	U	A488B20	21A4P1	U			X	
21P4	V	A489B20	21A4P1	V			X	
21P4	X	A56E20	21SQ4J1	A			X	
21P4	Y	A273A20	21SQ4J1	B			X	
21SQ1J1	A	A58F20	21P1	X			X	
21SQ1J1	A	A58G20	21P1	W	X	X		
21SQ1J1	B	A272E20	21P1	X	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
21SQ1J1	B	A272F20	21P1	Y			x	
21SQ1J1	C	A59A20N	GND		x	x	x	
21SQ2J1	A	A56C20	21P1	P	x	x		
21SQ2J1	A	A56C20	21P3	X			x	
21SQ2J1	C	A57A20N	GND		x	x	x	
21SQ2J1	B	A273C20	21P1	Q	x	x		
21SQ2J1	B	A273C20	21P3	Y			x	
21SQ3J1	A	A58J20	21P2	W	x	x		
21SQ3J1	A	A58H20	21P2	X			x	
21SQ3J1	B	A272G20	21P2	X	x	x		
21SQ3J1	B	A272H20	21P2	Y			x	
21SQ3J1	C	A53A20N	GND		x			
21SQ3J1	C	A53A20N	GND			x	x	
21SQ4J1	A	A56E20	21P2	P	x	x		
21SQ4J1	A	A56E20	21P4	X			x	
21SQ4J1	B	A273A20	21P2	Q	x	x		
21SQ4J1	B	A273E20	21P4	Y			x	
21SQ4J1	C	A55A20N	GND		x	x	x	
21S1	1	A271C20	5A1J1	X	x	x	x	
21S1	2	A517A20	21S2	5	x		x	
21S1	3	A60A22N	GND				x	
21S1	5	A60A22N	GND	X	x			
21S1	5	A272H20	21S2	3		x		
21S1	6	A60A22N	GND			x		
21S1	6	A272H20	21S2	3	x			
21S2	1	A48A20	5A1J1	J	x			
21S2	2	A517B20	21S2	5	x	x	x	
21S2	3	A272H20	21S1	5		x		
21S2	3	A272H20	21S1	6	x			
21S2	3	A272A20	5A1J1	Z	x	x	x	
21S2	4	A516A20	5A1J1	Y	x	x	x	
21S2	5	A517A20	21S1	2	x		x	
21S2	5	A517B20	21S2	2	x	x	x	
21S3	1	A76E20	4A2P1	V		x	x	
21S3	2	A62A20	4A2P1	W		x	x	
21S4	1	A20C20	SPLICE		x	x	x	
21S4	2	A504A20	22A1J1	J		x	x	
21S5	1	A20D20	SPLICE			x	x	
21S5	2	A58A20	22A1J1	K		x	x	
21S6	1	A500F20	SPLICE	7			x	
21S6	1	A557A20	22A2J1	J	x	x		
21S6	2	A515B20	22A2J1	E	x	x		
21S6	2	A520A20	21DS1	2			x	
21S6	3	A447D20	22A2J1	F	x	x	x	
21S6	3	A500E20	SPLICE				x	
21S6	5	A515B20	21A1J1	E			x	
21S6	5	A1033E22	22A2J1	C		x		
21S6	6	A48E20	21A1J1	D			x	
21S6	6	A1093A22	22A2J1	H		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
21S7		A442B22	21A1J1	C			X	
21S7	1	A41B22	21A1J1	P			X	
21S7	1	A42A22	21A1J1	K			X	
21S7	1	A443A22	21A1J1	R			X	
21S7	2	A43A22	21A1J1	L			X	
21S7	2	A444A22	21A1J1	Z			X	
21S7	3	A44A22	21A1J1	M			X	
21S7	3	A445A22	21A1J1	A			X	
21S7	4	A45A22	21A1J1	N			X	
21S7	4	A446A22	21A1J1	B			X	
21S8	1	A48A20	22A3J1	U			X	
21S8	1	A557C20	22A3J1	U	x	X		
21S8	2	A505B20	22A3J1	S	x	x	x	
21S8	3	A447A20	22A3J1	T	x	x	x	
21XK10	A1	A505A20	22A3P1	S		x		
21XK10	A1	A505A20	22A3P1	T		x		
21XK10	A2	A102B22	19P250	AA		x		
21XK10	A3	A529A20	22A2P1	E		x		
21XK10	81	A530A20	5A2P1	T		x		
21XK10	B2	A404A22	19TB4	B12		x		
21XK10	B3	A405A22	19TB4	A11		x		
21XK10	X1	A402A20	19TB4	F11		x		
21XK10	X2	A401A20N	GND			x		
2XK16	F2	A224A20	19TB4	A15	x			
2XK17	X1	A187X22	19TB4	E5	x			
21XK2	A1	A58C20	SPLICE		x	x	x	
21XK2	A2	A504B20	22A1P1	J	x	x	x	
21XK2	B1	A272C20	SPLICE		x	x	x	
21XK2	B2	A516B20	5A1P1	Y	x	x	x	
21XK2	B3	A508A20	SPLICE		x	x	x	
21XK2	B3	A513A20	SPLICE		x	x	x	
21XK2	X1	A506A20	19TB4	C7	x	x	x	
21XK2	X2	A507A20N	GND		x	x	x	
21XK6	B2	A219J22	19T134	G3	x			
21XK6	B2	A370K20	19TB4	G			x	
21XK6	B3	A102B22	19P250	AA	x			
21XK6	B3	A500A20	19TB4	G13			x	
21XK6	X1	TG239D20	SPLICE				x	
21XK6	X1	A342B22	2GTB3	2	x			
21XK6	X2	A348A22N	GND		x			
21XK6	X2	A532A20N	GND				x	
22A1J1	H	A20B20	SPLICE		x	x	x	
22A1J1	J	A504A20	21S4	2		x	x	
22A1J1	K	A58A20	21S5	2		x	x	
22A1J1	M	L195R22	8J109			x		
22A1J1	N	L51A22N	GND			x		
22A1J1	P	E35B22	1S38		x	x	x	
22A1J1	R	E34B22	1S38		x	x	x	
22A1J1	U	C2E22	1S22	2	x	x	x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
22A2J1	V	C3A22	1S22	3	x	x	x	
22A2J1	W	C4A22	1S22	1	x	x	x	
22A1P1	H	A20A20	21K3P1	G	x	x	x	
22A1P1	J	A504B20	21XK2	A2	x	x	x	
22A1P1	K	A58B20	SPLICE		x	x	x	
22A1P1	M	L195P22 **	8TB4	J1	x	x		
22A1P1	N	L51B22N	GND			x		
22A1P1	P	E35A22	1M8P1	E	x	x	x	
22A1P1	R	E34A22N	1TB3	D4	x	x	x	
22A1P1	U	C2D22	SPLICE		x	x	x	
22A1P1	V	C3B22	SPLICE		x	x	x	
22A1P1	W	C4B22	SPLICE		x	x	x	
22A2J1	A	A222E20	SPLICE		x	x		
22A2J1	A	A231A22	19S13	1	x	x		
22A2J1	A	A420F20	19S12	5			x	
22A1J1	A	A970A20	19S13	1			x	
22A2J1	B	A187D20	SPLICE			x		
22A2J1	B	A187D22	SPLICE		x			
22A1J1	B	A353A22	19S13	10	x	x		
22A2J1	B	A528A22	19S12	4			x	
22A2J1	B	A969A20	19S13	10			x	
22A2J1	C	A147H22	19S13	4	x			
22A2J1	C	A391A22	19S13	4			x	
22A2J1	C	A420D20	19S12	5			x	
22A2J1	C	A468D22	19S13	4		x		
22A2J1	C	A1033E22	21S6	5		x		
22A2J1	D	A111B22	19DS5	B			x	
22A2J1	D	A250B22	17S1		x	x		
22A2J1	D	A373B22	19DS5	NC	x	x		
22A2J1	D	A576A22	17S1	1			x	
22A2J1	E	A119B22	19DS4	3			x	
22A2J1	E	A298B22	17S2	2		x		
22A2J1	E	A515B20	21S6	2	x	x		
22A2J1	E	A577A22	17S2	4			x	
22A2J1	F	A117B22	19DS4	1			x	
22A2J1	E	A249B22	17R1	3		x		
22A2J1	E	A294B22	17R1	3	x			
22A2J1	F	A447D20	21S6	3	x	x	x	
22A2J1	E	A579A22	17R1	3			x	
22A2J1	G	A113B22	19DS5	A(NO)			x	
22A2J1	G	A372B22	19DS5	NC	x	x		
22A2J1	H	A391C22	19S13	4			x	
22A2J1	H	A1093A22	21S6	6		x		
22A2J1	J	A121B22	19DS4	4			x	
22A2J1	J	A328A22	19S4	2				
22A2J1	J	A557A20	21S6	1	x	x		
22A2J1	K	A303B22	19S4	3	x	x		
22A2J1	K	A303C22	19S4	3	x			
22A2J1	K	A343E22	SPLICE		x			

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
22A2J1	K	A385B20	19S13	9			X	
22A2J1	K	A465C22	19S13	12		X		
22A2J1	L	A219A22	19S112	4	X	X		
22A2J1	L	A370A20	19S12	1			X	
22A2J1	M	A63D20	19S12	3			X	
22A2J1	M	A211E22	19S12	5		X		
22A2J1	M	A211G22	19S12	5	X			
22A2J1	M	A354A22	19S5		X			
22A2J1	M	A354A22	19S5	3		X		
22A2J1	N	A355A22	19S5	4	X	X		
22A2J1	N	A375A20	19S13	1			X	
22A2J1	P	A115B22	19DS4	2			X	
22A2J1	R	A229B22	19S14	3			X	
22A2J1	R	A480A22	19S12	1	X	X		
22A2J1	S	A231B22	19S14	4			X	
22A2J1	S	L148A22	8Z3	Coil	X	X		
22A2J1	T	A379B22	8J104		X	X		
22A2J1	T	L148A22	8Z3				X	
22A2J1	T	L195C22	8J104				X	
22A2J1	U	A391C20	19S13	6			X	
22A2J1	V	A327A22N	GND		X	X		
22A2J1	V	A397A20N	GND				X	
22A2J1	W	A528C20	19S12	4			X	
22A2J1	X	A230B22	19S13	2	X	X		
22A2J1	X	A966B20	19S13	2			X	
22A2J1	Y	A352B22	19S13	11	X	X		
22A2J1	Y	A967B20	19S13	8			X	
22A2J1	Z	A226A22	19CR17	E3	X	X		
22A2J1	Z	A968B20	19S13	3			X	
22A2P1	A	A222D20	SPLICE		X	X		
22A2P1	A	A231B22	SPLICE		X	X		
22A2P1	A	A420E20	SPLICE				X	
22A2P1	A	A970B20	SPLICE				X	
22A2P1	B	A187E22	19TB4	C4	X			
22A2P1	B	A187E20	19TB4	C4		X		
22A2P1	B	A353B22	SPLICE		X			
22A2P1	B	A353B22	19TB4	D11		X		
22A2P1	B	A528B20	19TB2	2			X	
22A2P1	B	969B20	SPLICE				X	
22A2P1	C	A147G22	SPLICE		X			
22A2P1	C	A391B22	19XK81	X1			X	
22A2P1	C	A42j0C20	SPLICE				X	
22A2P1	C	A468A22	19TB4	E19		X		
22A2P1	C	A1033B22	SPLICE			X		
22A2P1	C	A397A22	19XK81	D1	X			
22A2P1	D	A111A22	19TB5	D7			X	
22A2P1	D	A250A22	22A4P15	GG		X		
22A2P1	D	A250A22	22A4P311	FF	X			
22A2P1	D	A373A22	19TB5	K1	X	X		
22A2P1	D	A576B22	24A4P311	FF			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
22A2P1	E	A119A2	19TB5	J5			x	
22A2P1	E	A298A22	17A1P1	<u>D</u>	x	x		
22A2P1	E	A515A20	4A3J1	T	x			
22A2P1	E	A529A20	21XK10	A3		x		
22A2P1	E	A577B20	17A1P1	<u>D</u>			x	
22A2P1	F	A117A22	19TB5	D6			x	
22A2P1	F	A249A22	22A4P15	AA		x		
22A2P1	F	A249A22	22A4P311	<u>X</u>	x			
22A2P1	F	A447C20	19TB4	B14	x	x	x	
22A2P1	F	A579B22	24A4P311	<u>X</u>			x	
22A2P1	G	A113A22	19TB5	J4			x	
22A2P1	G	A372A22	19TB5	E4		x		
22A2P1	H	A391D22	19A1J4	<u>Z</u>			x	
22A2P1	H	A1093B22	16A1P2	59		x		
22A2P1	J	A121A22	19TB5	D5			x	
22A2P1	J	A328B22	19A1P1	P	x	x		
22A2P1	J	A557B20	19TB4	F14	x	x		
22A2P1	k	A221E22	SPLICE			x		
22A2P1	K	A303B22	SPLICE		x			
22A2P1	K	A343F22	19XK81	D3	x			
22A2P1	K	A385C20	SPLICE				x	
22A2P1	K	A465A22	19TB4	D6		x		
22A2P1	L	A219B22	19TB4	A3	x	x		
22A2P1	L	A370B20	19TB2	1			x	
22A2P1	M	A63C20	SPLICE				x	
22A2P1	M	A211D22	SPLICE			x		
22A2P1	M	A211F22	SPLICE		x			
22A2P1	M	A354B22	19XK59	C1	x			
22A2P1	M	A1094A22	16A1P2	69		x		
22A2P1	N	A40A22N	GND			x		
22A2P1	(SHLD)							
22A2P1	N	A355B22	19XK59	D1	x			
22A2P1	N	A375B22	19CR3	11			x	
22A2P1	N	A1095A22	16A1P2	70		x		
22A2P1	P	A115A22	19TB4	J6			x	
22A2P1	R	A229A22	19XK59	B1			x	
22A2P1	R	A480B22	SPLICE		x	x		
22A2P1	R	A480E22	2XK17	X1	x	x		
22A2P1	S	A231A22	19XK59	A1			x	
22A2P1	S	A380A22	19TB5	K6	x	x		
22A2P1	S	L255D22	4A1J1	T			x	
22A2P1	T	A379A22	8TB4	B1	x	x		
22A2P1	T	A528J20	19TB4	K7			x	
22A2P1	T	L195B22 **	8TB4	B1			x	
22A2P1	V	A327B22N	GND		x	x		
22A2P1	V	A397B20N	GND				x	
22A2P1	W	A528D20	19TB4	A			x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
22A2P1	x	A230A22	19XK80	A3	x			
22A2P1	x	A230A22	22A5P1	39		x		
22A2P1	x	A966A20	19XK80	A3			x	
22A2P1	Y	A352A22	19XK80	B3	x			
22A2P1	Y	A352A22	22A5P2	42		x		
22A2P1	Y	A967A20	19XK80	B3			x	
22A2P1	Y	P8B22N	GND				x	
22A2P1	Z	A226B22	19TB4	F16	x	x		
22A2P1	Z	A968C22	SPLICE				x	
22A3J1	A	A185A22	19S8	6	x			
22A3J1	A	A192A22	19S16	2	x	x		
22A3J1	A	A542A22	19S8	6			x	
22A3J1	A	A558A20	19S16	2			x	
22A3J1	B	A104B22	19DS1	3			x	
22A3J1	B	A187G22	19S6	2	x	x		
22A3J1	B	A528R20	19S6	2			x	
22A3J1	C	A189B22	17R2	3	x	x		
22A3J1	C	A210A22	19S7	1	x	x		
22A3J1	C	A554A22	17R2	3			x	
22A3J1	C	A982A20	19S7	1			x	
22A3J1	D	A206B22	19DS3	NC	x	x		
22A3J1	D	A208A22	19M1	2	x	x		
22A3J1	D	A986G22	19DS3	2			x	
22A3J1	D	A987B22	19M1	1			x	
22A3J1	E	A100B22	19DS1	2			x	
22A3J1	E	A184A22	19S8	1		x		
22A3J1	E	A184A22	19S8	3	x			
22A3J1	E	A219H22	19S16	5		x		
22A3J1	E	A543A22	19S8	3			x	
22A3J1	E	A102B22	19DS1	1			x	
22A3J1	F	A106B22	19DS1	4			x	
22A3J1	F	A478A22	19S16	6		x		
22A3J1	G	A197A22	17DS1	PLT		x		
22A3J1	G	A197A22	17DS1	2	x			
22A3J1	G	A230B22	19S5	4			x	
22A3J1	G	A256B22	17DS1	2			x	
22A3J1	H	A196A22	17DS1	E1A		x		
22A3J1	H	A196A22	17DS1	1	x			
22A3J1	H	A540B22	19S5	2			x	
22A3J1	I	A191A22	17S3	2		x		
22A3J1	I	A191A22	17S3	5	x			
22A3J1	I	A555B22	17S3	4			x	
22A3J1	J	A98B22	19DS2	1			x	
22A3J1	J	A199A22	17DS1	GO		x		
22A3J1	J	A199A22	17DS1	4	x			
22A3J1	J	A203B22	19DS2	NC-A	x	x		
22A3J1	K	A194A22	17S4		x	x		
22A3J1	K	A198A22	17DS1	GNR		x		
22A3J1	K	A198A22	17DS1	3	x			

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
22A3J1	K	A257B22	17DS1	3			X	
22A3J1	K	A553A22	17S4	1			X	
22A3J1	L	A188A22	19S6	1	X			
22A3J1	L	A541A22	19S6	1			X	
22A3J1	<u>M</u>	A63J20	19S7	2			X	
22A3J1	<u>M</u>	A222L22	SPLICE			X		
22A3J1	<u>M</u>	A222M22	SPLICE		X			
22A3J1	<u>M</u>	A228B20	19S5	3			X	
22A3J1	N	A193A22	17S5	2	X	X		
22A3J1	N	A557A20	17S5	2			X	
22A3J1	<u>P</u>	A188A22	19S6	3		X		
22A3J1	P	A207C22	19M1	1	X	X		
22A3J1	P	A986B22	19M2	1			X	
22A3J1	<u>P</u>	TG538A22	19S8	1	X			
22A3J1	<u>R</u>	A156E22	19S3	2	X	X		
22A3J1	R	A213A22N	GND		X	X		
22A3J1	R	A545A20N	GND				X	
22A3J1	S	A505B20	21S8	2	X	X	X	
22A3J1	<u>S</u>	L147A22	8Z3				X	
22A3J1	<u>S</u>	L148A22	8Z4	COIL		X		
22A3J1	<u>S</u>	L148A22	8Z4	X1	X			
22A3J1	T	A447A20	21S8	3	X	X	X	
22A3J1	U	A48A20	21S8	1			X	
22A3J1	U	A557C20	21S8	1	X	X		
22A3J1	V	A186E22	19S8	5	X	X		
22A3J1	V	A529B20	19DS1	B(NO)			X	
22A3J1	W	A96B22	19DS2	2			X	
22A3J1	W	A204B22	19DS2	B		X		
22A3J1	W	A204B22	19DS2	NC-B	X			
22A3J1	Y	A200A22	17DS1	C	X	X		
22A3J1	Y	A260A22	17DS1	A(C)			X	
22A3J1	Z	A212B22	8J103		X	X		
22A3J1	Z	L225G22	8J103				X	
22A3P1	A	A38A22N				X		
22A3P1	(SHLD)							
22A3P1	A	A185B22	19XK59	03	X			
22A3P1	<u>A</u>	A192B22	19XK81	B3	X			
22A3P1	<u>A</u>	A192B22	22A5P1	90		X		
22A3P1	A	A542B22	24A4P311	A			X	
22A3P1	<u>A</u>	A558B20	24A4P311	F			X	
22A3P1	A	A1035A22	16A1P2	68		X		
22A3P1	B	A104A22	19TB5	J2			X	
22A3P1	B	A187F20	19TB4	B4		X		
22A3P1	B	A187F22	19TB4	B4	X			
22A3P1	B	A528P20	19TB4	J(5)			X	
22A3P1	C	A189A22	22A4P15	FF		X		
22A3P1	C	A189A22	22A4P311	HH	X			
22A3P1	<u>C</u>	A210B22	19XK80	X1	X			
22A3P1	<u>C</u>	A210B22	22A5P1	228		X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	B	M	D	
22A3P1	C	A554B22	24A4P311	HH			x	
22A3P1	<u>C</u>	A982B20	SPLICE				x	
22A3P1	<u>D</u>	A206A22	19TB5	K3	x	x		
22A3P1	D	A208B22	19P250	<u>Y</u>	x	x		
22A3P1	<u>D</u>	A968E22	SPLICE				x	
22A3P1	E	A100A22	19TB5	J3			x	
22A3P1	<u>E</u>	A184B22	19XK59	C3	x			
22A3P1	<u>E</u>	A543B22	24A4P311	<u>I</u>			x	
22A3P1	<u>E</u>	A1034A22	16A1P2	67		x		
22A3P1	<u>F</u>	A102A22	19TB5	D3			x	
22A3P1	<u>F</u>	A106A22	19TB5	02			x	
22A3P1	<u>F</u>	A1100A22	22A5P1	73		x		
22A3P1	<u>F</u>	A197/B22	19TB5	E2	x	x		
22A3P1	<u>G</u>	A230A22	19XK59	A3			x	
22A3P1	<u>G</u>	A256A22	17XK1	D2			x	
22A3P1	H	A196B22	19TB5	C5	x	x		
22A3P1	H	A258A22	17XK1	B2			x	
22A3P1	<u>H</u>	A258B22	17DS1	1			x	
22A3P1	<u>H</u>	A540A22	19XK80	D2			x	
22A3P1	<u>I</u>	A191B22	17A1P1	<u>E</u>	x	x		
22A3P1	<u>I</u>	A555A22	17A1P1	<u>E</u>			x	
22A3P1	<u>J</u>	A98A22	19TB5	J1			x	
22A3P1	<u>J</u>	A199B22	19TB5	K2	x	x		
22A3P1	<u>J</u>	A203A22	19TB5	E1	x	x		
22A3P1	<u>T</u>	A259A22	17XK1	A2			x	
22A3P1	J	A259B22	17DS1	4			x	
22A3P1	<u>K</u>	A194B22	22A4P15	HH		x		
22A3P1	<u>K</u>	A194B22	22A4P311	EE	x			
22A3P1	K	A198B22	19TB5	K4	x	x		
22A3P1	K	A257A22	17XK1	C2			x	
22A3P1	<u>K</u>	A553B22	24A4P311	EE			x	
22A3P1	L	A188B22	SPLICE		x			
22A3P1	L	A541B22	SPLICE				x	
22A3P1	<u>M</u>	A63E20	SPLICE				x	
22A3P1	<u>M</u>	A222J20	SPLICE			x		
22A3P1	<u>M</u>	A222L22	SPLICE		x			
22A3P1	M	A228A22	19XK59	B3			x	
22A3P1	N	A193B22	17A1P1	<u>E</u>	x	x		
22A3P1	N	A557B20	17A1P1	<u>E</u>			x	
22A3P1	P	A207B22	SPLICE		x	x		
22A3P1	<u>P</u>	TG538A22	22A5P1	26		x		
22A3P1	<u>P</u>	TG538B22	TO 20XK94	X1	x			
22A3P1	<u>R</u>	A156D22	SPLICE		x	x		
22A3P1	R	A213B22N	GND		x	x		
22A3P1	R	A545B20N	GND				x	
22A3P1	<u>S</u>	A214A22	19TB5	E6	x	x		
22A3P1	<u>S</u>	L258D22	1A2J1	T			x	
22A3P1	S	A505A20	21XK10	A1		x		
22A3P1	S	A505A20	5A2J1	T	x		x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
EF. DES.	PIN		REF DES.	PIN	E	M	P	
22A3P1	T	A447B20	19TB4	A14	X	X		
22A3P1	T	A505A20	21XK10	A1		X		
22A3P1	T	A529P20	19TB3	5				
22A3P1	U	A48B20	19TB4	F14				
22A3P1	U	A557D20	19TB4	G14	X	X		
22A3P1	V	A186D22	SPLICE		X	X		
22A3P1	V	A529A20	19TB2	2				
22A3P1	W	A96A22	19TB5	E4				
22A3P1	W	A204A22	19TB5	E3	X	X		
22A3P1	Y	A200B22	19TB5	K5	X	X		
22A3P1	Y	A260B22	17XK1	X1				
22A3P1	Z	A212A22 * *	8TB5	H6	X	X		
22A3P1	Z	1225F22 * *	8TB5	H7				
22A3P1	3	A219D22	19TB4	C3		X		
22A4P13	A	A274A22(BLU)	17A1P1	V		X		
22A4P13	AA	A1178A22(BLU)	16A1P3	74		X		
22A4P13	B	A274A22(WHT)	17A1P1	P		X		
22A4P13	H	A275A22(WHT)	17A1P1	Z		X		
22A4P13	BB	A1178A22(WHT)	16A1P3	73		X		
22A4P13	C	A277B22(BLU)	19TB7	F5		X		
22A4P13	CC	A396A22(BLU)	19A5P1	K		X		
22A4P13	D	A277B22(WHT)	19TB7	A5		X		
22A4P13	DD	A396A22(WHT)	19A5P1	J		X		
22A4P13	E	A270A22(BLU)	17A1P1	D		X		
22A4P13	EE	A160D22(BLU)	19TB7	H1		X		
22A4P13	F	A158H22	SPLICE			X		
22A4P13	F	A270A22(WHT)	17A1P1	E		X		
22A4P13	FF	A160D22(WHT)	19TB7	C1		X		
22A4P13	G	A108D22(WHT)	SPLICE			X		
22A4P13	G	A275A22(BLU)	17A1P1	A		X		
22A4P13	GG	A161D22(BLU)	19TB7	H3		X		
22A4P13	H	A108D22(BLU)	SPLICE			X		
22A4P13	HH	A161D22(WHT)	19TB7	C3		X		
22A4P13	I	A1179A22(BLU)	16A1P3	B1		X		
22A4P13	J	A451A22N	GND			X		
22A4P13	J	A1179A22(WHT)	16A1P3	30		X		
22A4P13	K	A1174A22(BLU)	16A5P1	12		X		
22A4P13	K	A1180A22(WHT)	16A1P3	33		X		
22A4P13	L	A1174A22(WHT)	16A5P1	16		X		
22A4P13	M	A1175A22(BLU)	16A5P1	10		X		
22A4P13	M	A1180A22(BLU)	16A1P3	34		X		
22A4P13	N	A1175A22(WHT)	16A5P1	14		X		
22A4P13	N	A1181A22(WHT)	16A1P3	36		X		
22A4P13	P	A1181A22(BLU)	16A1P3	37		X		
22A4P13	Q	TG43A22(BLU)	20A1P06	I		X		
22A4P13	R	A108D22(BLU)	SPLICE		X			
22A4P13	R	TG43A22(WHT)	20A1P06	J		X		
22A4P13	R	TG51C22(WHT)	19A5P1	E	X	X		
22A4P13	R	TG51D22	19J1	J		X		
22A4P13	S	TG45A22(BLU)	20A1P06	M		X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
22A4P13	S	TG47A22(BLU)	20A1P06	X		X		
22A4P13	T	TG45A22(WHT)	20A1P06	N		x		
22A4P13	I	TG47A22(WHT)	20A1P06	FF		x		
22A4P13	U	TG34A22(BLU)	20A1P06	M		x		
22A4P13	U	TG49A22(BLU)	20A1P06	Y		x		
22A4P13	V	TG34A22(WHT)	20A1P06	H		x		
22A4P13	V	TG49A22(WHT)	20A1P06	GG		x		
22A4P13	W	A276B22(BLU)	19TB7	F4		x		
22A4P13	w	A1176A22(BLU)	16A1P3	68		x		
22A4P13	X	A276B22(WHT)	19TB7	A4		x		
22A4P13	x	A1176A22(WHT)	16A1P3	67		x		
22A4P13	y	A269A22(BLU)	17A1P1	R		x		
22A4P13	Y	A1177A22(WHT)	16A1P3	70		x		
22A4P13	Z	A269A22(WHT)	17A1P1	P		x		
22A4P13	Z	A1177A22(BLU)	16A1P3	71		x		
22A4P14	A	A1162A22(BLU)	16A5P1	2		x		
22A4P14	AA	A266A22(BLU)	SPLICE			x		
22A4P14	B	A1162A22(WHT)	16A5P1	1		x		
22A4P14	BB	A266A22(WHT)	SPLICE			x		
22A4P14	C	A1163A22(BLU)	16A5P1	35		x		
22A4P14	D	A1163A22(WHT)	16A5P1	33		x		
22A4P14	E	TG342A22(BLU)	SPLICE			x		
22A4P14	F	TG342A22(WHT)	SPLICE			x		
22A4P14	G	TG340A22(BLU)	SPLICE			x		
22A4P14	H	TG340A22(WHT)	SPLICE			x		
22A4P14	I	TG38B22(BLU)	SPLICE			x		
22A4P14	J	A453A22N	GND			x		
22A4P14	J	TG38B22(WHT)	SPLICE			x		
22A4P14	K	A1164A22(BLU)	16A1P3	2		x		
22A4P14	K	TG36B22(BLU)	SPLICE			x		
22A4P14	L	A1164A22(WHT)	16A1P3	1		x		
22A4P14	M	A1165A22(WHT)	16A1P3	3		x		
22A4P14	M	TG36B22(WHT)	SPLICE			x		
22A4P14	N	A1165A22(BLU)	16A1P3	4		x		
22A4P14	N	TG40B22(BLU)	SPLICE			x		
22A4P14	P	A1166A22(WHT)	16A1P3	5		x		
22A4P14	P	TG40B22(WHT)	SPLICE			x		
22A4P14	R	A264A22(BLU)	17A1P1	M		x		
22A4P14	R	A264A22(WHT)	17A1P1	T		x		
22A4P14	R	A1166A22(BLU)	16A1P3	6		x		
22A4P14	S	A263A22(BLU)	17A1P1	N		x		
22A4P14	T	A263A22(WHT)	17A1P1	U		x		
22A4P14	U	A262A22(BLU)	17A1P1	K		x		
22A4P14	V	A262A22(WHT)	17A1P1	S		x		
22A4P14	W	A265A22(BLU)	SPLICE			x		
22A4P14	X	A265A22(WHT)	SPLICE			x		
22A4P14	Y	A267A22(BLU)	SPLICE			x		
22A4P14	Y	A1161A22(BLU)	16A5P1	20		x		
22A4P14	Z	A267A22(WHT)	SPLICE			x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
22A4P14	Z	A1161A22(WHT)	16A5P1	21		x		
22A4P15	<u>A</u>	A1183A22(BLU)	SPLICE			x		
22A4P15	AA	A249A22	22A2P1	<u>E</u>		x		
22A4P15	B	A1183A22(WHT)	16A9P1	A		x		
22A4P15	<u>B</u>	A244C22N(BLU)	GND			x		
22A4P15	BB	A254A22	SPLICE			x		
22A4P15	<u>C</u>	A244C22(WHT)	SPLICE			x		
22A4P15	CC	A253A22	17P1	3		x		
22A4P15		A137A22(BLU)	22A5P1	175		x		
22A4P15	DD	A252A22	17P1	2		x		
22A4P15	<u>E</u>	A137A22(WHT)	SPLICE			x		
22A4P15	E	A1154A22	16TB1	J8		x		
22A4P15	EE	A251A22	17A1P1	1		x		
22A4P15	<u>E</u>	A235A22N	GND			x		
22A4P15	F	A1153A22	16A1P2	32		x		
22A4P15	FF	A189A22	22A3P1	C		x		
22A4F15	<u>G</u>	A187R20	19TB4	A4		x		
22A4P15	<u>G</u>	A1152A22	16A1P2	33		x		
22A4P15	GG	A250A22	22A2P1	<u>D</u>		x		
22A4P15	H	A159C22(BLU)	SPLICE			x		
22A4P15	HH	A194B22	22A3P1	<u>K</u>		x		
22A4P15	J	A159C22(WHT)	SPLICE			x		
22A4P15	<u>J</u>	A1158A22	16TB1	K2		x		
22A4P15	<u>K</u>	A233A22(BLU)	19TB7	B2		x		
22A4P15	<u>K</u>	TG198B22	5A1P1	<u>J</u>		x		
22A4P15	<u>L</u>	A233A22(WHT)	19TB7	D2		x		
22A4P15	<u>M</u>	TG200C22	19TB4	C10		x		
22A4P15	<u>N</u>	TG202A22	SPLICE			x		
22A4P15	<u>N</u>	TG202D22	19J1	L		x		
22A4P15	<u>P</u>	TG251F22	SPLICE			x		
22A4P15	<u>P</u>	TG212C22	19J1	N		x		
22A4P15	<u>P</u>	TG212D22	SPLICE		x	x		
22A4P15	<u>P</u>	A226E22	19TB4	G16		x		
22A4P15	<u>S</u>	A279A22	SPLICE			x		
22A4P15	<u>S</u>	A279A22	21K7P1	F	x			
22A4P15	S	A1157A22	16A1P2	62		x		
22A4P15	<u>I</u>	A280B22	19TB4	G13	x	x		
22A4P15	T	A1155A22	16A1P2	61		x		
22A4P15	<u>U</u>	A261A22	17A1P1	HH		x		
22A4P15	U	A1156A22	16A1P2	60		x		
22A4P15	<u>V</u>	A260A22	17A1P1	GG		x		
22A4P15	<u>W</u>	A258A22	SPLICE			x		
22A4P15	W	A278A22(BLU)	19TB6	G2		x		
22A4P15	<u>X</u>	A257A22	17P2	3		x		
22A4P15	X	A278A22	19TB6	G1		x		
22A4P15	<u>Y</u>	A256A22	17P2	2		x		
22A4P15	Y	TG875A22	22A5P1	213		x		
22A4P15	Z	A241A22	17P1	7		x		
22A4P15	<u>Z</u>	A255A22	17P2	1		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
22A4P311		A396A22(BLU)	19A9P1	K	X			
22A4P311	A	A161B22(WHT)	SPLICE		X			
22A4P311	A	A161C22(WHT)	SPLICE		X			
22A4P311	A	A161D22(WHT)	SPLICE		X			
22A4P311	A	A246A22	19XK59	D2	X			
22A4P311	A	A333C22(WHT)	SPLICE				X	
22A4P311	AA	A243A22	19XK102	A1	X			
22A4P311	B	A134A20N	GND				X	
22A4P311	B	A160B22(BLU)	SPLICE		X			
22A4P311	B	A160D22(BLU)	19A5P1	G	X			
22A4P311	B	A235A22N	GND		X			
22A4P311	B	A328C22(WHT)	SPLICE				X	
22A4P311	BB	A242A22	SPLICE		X			
22A4P311	C	A187S22	SPLICE		X			
22A4P311	C	A108D22(WHT)	SPLICE		X			
22A4P311	D	A188C22	SPLICE		X			
22A4P311	D	A323C20	SPLICE				X	
22A4P311	E	A137A22(BLU)	19XK101	A2	X			
22A4P311	E	A226E22	19TB4	G16	X			
22A4P311	E	A250A20N	GND				X	
22A4P311	E	A968F22	SPLICE				X	
22A4P311	EE	A194B22	22A3P1	K	X			
22A4P311	FF	A250A22	22A2P1	D	X			
22A4P311	G	A244C22(WHT)	SPLICE		X			
22A4P311	G	A252A22	17P1	2	X			
22A4P311	G	A255A22	17P2	1	X			
22A4P311	H	A244C22N(BLU)	GND		X			
22A4P311	H	A254A22	SPLICE		X			
22A4P311	H	A189A22	22A3P1	C	X			
22A4P311	I	A257A22	17P2	3	X			
22A4P311	K	A187T22	SPLICE		X			
22A4P311	K	A233A22(BLU)	SPLICE		X			
22A4P311	L	A241A22	17P1	7	X			
22A4P311	M	A159C22(BLU)	SPLICE		X			
22A4P311	M	A253A22	17P1	3	X			
22A4P311	N	A258A22	SPLICE		X			
22A4P311	N	A332A22(BLU)	19TB6	A2	X			
22A4P311	P	A137A22(WHT)	SPLICE		X			
22A4P311	P	A108D22(BLU)	SPLICE		X			
22A4P311	S	A158G22	SPLICE		X			
22A4P311	S	A233A22(WHT)	SPLICE		X			
22A4P311	T	A159C22(WHT)	SPLICE		X			
22A4P311	T	A247A22	19XK59	C2	X			
22A4P311	U	A332A22(WHT)	19TB6	E1	X			
22A4P311	U	TG51C22(BLU)	SPLICE		X			
22A4P311	V	A161B22(BLU)	SPLICE		X			
22A4P311	V	A161B22(BLU)	19J250	G	X			
22A4P311	V	A161D22(BLU)	SPLICE		X			
22A4P311	V	A333C22(BLU)	SPLICE				X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
22A4P311	<u>V</u>	TG51C22(WHT)	SPLICE		X			
22A4P311	<u>W</u>	A160B22(WHT)	19J250	J	X			
22A4P311	<u>W</u>	A160D22(WHT)	SPLICE		X			
22A4P311	<u>W</u>	A251A22	17P1	1	X			
22A4P311	<u>X</u>	A249A22	22A2P1	<u>F</u>	X			
22A4P311	<u>Y</u>	A256A22	17P2	2	X			
22A4P312		A276C22(BLU)	19A5P1	B	X			
22A4P312		A277C22(BLU)	19A5P1	S	X			
22A4P312		A277C22(WHT)	19A5P1	T	X			
22A4P312	A	A143A22(WHT)	17A1P1	S			X	
22A4P312	A	A262A22(WHT)	17A1P1	<u>K</u>	X			
22A4P312	<u>A</u>	A278A22(WHT)	19TB6	<u>G</u> 1	X			
22A4P312	B	A143A22(BLU)	17A1P1	<u>K</u>			X	
22A4P312	<u>B</u>	A159A22(BLU)	17A1P1	V			X	
22A4P312	<u>B</u>	A262A22(BLU)	17A1P1	S	X			
22A4P312	<u>B</u>	A274A22(BLU)	17A1P1	<u>P</u>	X			
22A4P312	<u>C</u>	A145A22(WHT)	17A1P1	T			X	
22A4P312	<u>C</u>	A162A22(BLU)	17A1P1	I			X	
22A4P312	<u>C</u>	A264A22(WHT)	17A1P1	<u>T</u>	X			
22A4P312	<u>C</u>	A276B22(BLU)	SPLICE		X			
22A4P312	D	A144A22(WHT)	17A1P1	U			X	
22A4P312	D	A263A22(WHT)	17A1P1	U	X			
22A4P312	F	A157A22(WHT)	17A1P1	P			X	
22A4P312	<u>F</u>	A163A22(WHT)	17A1P1	<u>R</u>			X	
22A4P312	F	A269A22(WHT)	17A1P1	P	X			
22A4P312	<u>F</u>	A277B22(BLU)	SPLICE		X			
22A4P312	G	A157A22(BLU)	17A1P1	R			X	
22A4P312	<u>G</u>	A161A22(BLU)	17A1P1	<u>A</u>			X	
22A4P312	<u>G</u>	A269A22(BLU)	17A1P1	R	X			
22A4P312	<u>G</u>	A275A22(BLU)	17A1P1	Z	X			
22A4P312	H	A159A22(WHT)	17A1P1	<u>P</u>			X	
22A4P312	H	A274A22(WHT)	17A1P1	V	X			
22A4P312	I	A148A22(BLU)	SPLICE				X	
22A4P312	<u>I</u>	A267A22(BLU)	SPLICE		X			
22A4P312	<u>J</u>	A146A22(BLU)	SPLICE				X	
22A4P312	J	A162A22(WHT)	17A1P1	<u>J</u>			X	
22A4P312	<u>J</u>	A265A22(BLU)	SPLICE		X			
22A4P312	J	A276B22(WHT)	SPLICE		X			
22A4P312	<u>K</u>	A124A22	SHIELD				X	
22A4P312	<u>K</u>	A268A22	SHLD		X			
22A4P312	<u>N</u>	A156A20	17A1P1	HH			X	
22A4P312	N	A163A22(BLU)	17A1P1	<u>S</u>			X	
22A4P312	<u>N</u>	A261A22	17A1P1	HH	X			
22A4P312	<u>N</u>	A277B22(WHT)	SPLICE		X			
22A4P312	P	A161A22(WHT)	17A1P1	Z			X	
22A4P312	P	A275A22(WHT)	17A1P1	<u>A</u>	X			
22A4P312	<u>R</u>	A140A20	17A1P1	GG			X	
22A4P312	R	A158A22(BLU)	17A1P1	D			X	
22A4P312	<u>R</u>	A260A22	17A1P1	GG	X			

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
22A4P312	R	A270A22(BLU)	17A1P1	D	x			
22A4P312	S	A270A22(WHT)	17A1P1	E	x			
22A4P312	T	A142A20	17A1P1	Z			x	
22A4P312	T	A259A22	17A1P1	Z	x			
22A4P312	T	A278A22(BLU)	19TB6	G2	x			
22A4P312	U	A148A22(WHT)	SPLICE				x	
22A4P312	U	A267A22(WHT)	SPLICE		x			
22A4P312	V	A146A22(WHT)	SPLICE				x	
22A4P312	V	A265A22(WHT)	SPLICE		x			
22A4P312	W	A147A22(WHT)	SPLICE				x	
22A4P312	W	A266A22(WHT)	SPLICE		x			
22A4P312	X	A147A22(BLU)	SPLICE				x	
22A4P312	X	A266A22(BLU)	SPLICE		x			
22A4P312	Y	A145A22(BLU)	17A1P1	M			x	
22A4P312	Y	A264A22(BLU)	17A1P1	M	x			
22A4P312	Z	A144A22(BLU)	17A1P1	N			x	
22A4P312	Z	A263A22(BLU)	17A1P1	N	x			
22A4P313	A	TG38B22(WHT)	SPLICE	N	x		x	
22A4P313	B	TG34A22(BLU)	20A1P06	M	x			
22A4P313	B	TG34A22(WHT)	20A1P06	H			x	
22A4P313	B	TG38B22(BLU)	SPLICE		x		x	
22A4P313	C	TG36B22(WHT)	SPLICE		x		x	
22A4P313	D	TG40B22(BLU)	SPLICE		x			
22A4P313	D	TG40B22(WHT)	SPLICE				x	
22A4P313	E	TG45A22(WHT)	20A1P06	N	x		x	
22A4P313	E	TG337A22	3XK4	2			x	
22A4P313	E	TG875A22	19XK95	A3	x			
22A4P313	F	TG45A22(BLU)	20A1P06	M	x		x	
22A4P313	G	TG338A22(WHT)	SPLICE		x			
22A4P313	G	TG338A22(WHT)	20P327	E			x	
22A4P313	H	A168C20	SPLICE				x	
22A4P313	H	A279A22	SPLICE		x			
22A4P313	I	TG49A22(BLU)	20A1P06	Y			x	
22A4P313	I	TG49A22(WHT)	20A1P06	GG	x			
22A4P313	J	TG47A22(BLU)	20A1P06	X	x		x	
22A4P313	K	TG201A22	SPLICE		x			
22A4P313	K	TG201A22	19TB4	J8			x	
22A4P313	L	TG251F22	SPLICE		x		x	
22A4P313	M	A200A20	19XK84	B3			x	
22A4P313	M	TG202A22	SPLICE		x			
22A4P313	M	TG202A22	19TB4	F8			x	
22A4P313	M	A280A22	19XK84	B3	x			
22A4P313	N	TG34A22(BLU)	20A1P06	M			x	
22A4P313	N	TG34A22(WHT)	20A1P06	H	x			
22A4P313	N	TG200C22	SPLICE		x		x	
22A4P313	P	TG51A22(BLU)	SPLICE		x			
22A4P313	P	TG51A22(WHT)	20A1P06	AA			x	
22A4P313	P	TG51A22(BLU)	20A1P06	Z			x	
22A4P313	Q	TG51A22(WHT)	SPLICE		x			

END		WIRE NO.	END		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
22A4P313	R	TG338A22(BLU)	SPLICE		x			
22A4P313	R	TG338A22(BLU)	20P327	F			x	
22A4P313	R	TG342A22(WHT)	SPLICE		x		x	
22A4P313	S	TG340A22(BLU)	SPLICE		x			
22A4P313	S	TG340A22(WHT)	SPLICE				x	
22A4P313	S T	TG342A22(BLU)	SPLICE		x		x	
22A4P313		TG48A22	SHLD		x		x	
22A4P313	T	TG340A22(BLU)	SPLICE				x	
22A4P313		TG340A22(WHT)	SPLICE		x			
22A4P313	U	TG49A22(BLU)	20A1P06	Y	x			
22A4P313	U	TG49A22(WHT)	20A1P06	GG			x	
22A4P313	V	TG47A22(WHT)	20A1P06	FF	x		x	
22A4P313	W	TG43A22(WHT)	20A1P06	U	x		x	
22A4P313	X	TG43A22(BLU)	20A1P06	T	x		x	
22A4P313	Y	TG36B22(BLU)	SPLICE		x		x	
22A4P313	Z	TG40B22(BLU)	SPLICE				x	
22A4P313	Z	TG40B22(WHT)	SPLICE		x			
22A5A1J1	20	A47-24	22A5J1	47		x		
22A5A1J1	21	A48-24	22A5J1	48		x		
22A5A1J1	24	A50-24	22A5J1	50		x		
22A5A1J1	26	A49-24	22A5J1	49		x		
22A5J1	227	A227-22	22A5K3	X2		x		
22A5J1	228	A228-22	22A5K3	Z1		x		
22A5J1	229	A229-22	22A5XK4	X2		x		
22A5J1	230	A230-22	22A5XK4	X1		x		
22A5J1	231	A231-22	22A5K5	X2		x		
22A5J1	232	A232-22	22A5K5	X1		x		
22A5J1	47	A47-24	22A5A1J1	20		x		
22A5J1	48	A48-24	22A5A1J1	21		x		
22A5J1	49	A49-24	22A5A1J1	26		x		
22A5J1	50	A50-24	22A5A1J1	24		x		
22A5J2	37	B37-20	22A5K3	A1		x		
22A5J2	38	B38-20	22A5K3	A2		x		
22A5J2	39	B39-20	22A5K3	A3		x		
22A5J2	40	B40-20	22A5K3	B1		x		
22A5J2	41	B41-20	22A5K3	B2		x		
22A5J2	42	B42-20	22A5K3	B3		x		
22AW2	43	B43-20	22A5K3	C1		x		
22A5J2	44	B44-20	22A5K3	C2		x		
22A5J2	45	B45-20	22A5K3	C3		x		
22A5J2	46	B46-20	22A5K3	D1		x		
22A5J2	47	B47-20	22A5K3	D2		x		
22A5J2	48	B48-20	22A5K3	D3		x		
22A5J2	49	B49-20	22A5K3	E1		x		
22A5J2	50	B50-20	22A5K3	E2		x		
22A5J2	51	B51-20	22A5K5	E3		x		
22A5J2	52	B52-20	22A5K3	F1		x		
22A5J2	53	B53-20	22A5K3	F2		x		
22A5J2	54	B54-20	22A5K3	F3		x		

END 1		WIRE NO.	END		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
22A5J2	55	B55-20	22A5XK4	A1		X		
22A5J2	56	B56-20	22A5XK4	A2		X		
22A5J2	57	B57-20	22A5XK4	A3		X		
22A5J2	58	B58-20	22A5XK4	B1		X		
22A5J2	59	B59-20	22A5XK4	B2		X		
22A5J2	60	B60-20	22A5XK4	B3		X		
22A5J2	61	B61-20	22A5XK4	C1		X		
22A5J2	62	B62-10	22A5XK4	C2		X		
22A5J2	63	B63-20	22A5XK4	C3		X		
22A5J2	64	B64-20	22A5XK4	D1		X		
22A5J2	65	B65-20	22A5XK4	D2		X		
22A5J2	66	B66-20	22A5XK4	D3		X		
22A5J2	67	B67-20	22A5K5	A1		X		
22A5J2	68	B68-20	22A5K5	A2		X		
22A5J2	69	B69-20	22A5K5	A3		X		
22A5J2	70	B70-20	22A5K5	31		X		
22A5J2	71	B71-20	22A5K5	B2		X		
22A5J2	72	B72-20	22A5K5	B3		X		
22A5K3	A1	B37-20	22A5J2	37		X		
22A5K3	A2	B38-20	22A5J2	38		X		
22A5K3	A3	B39-20	22A5J2	39		X		
22A5K3	B1	B40-20	22A5J2	40		X		
22A5K3	B2	B41-20	22A5J2	41		X		
22A5K3	B3	B42-20	22A5J2	42		X		
22A5K3	C1	B43-20	22A5J2	43		X		
22A5K3	C2	B44-20	22A5J2	44		X		
22A5K3	C3	B45-20	22A5J2	45		X		
22A5K3	D1	B46-20	22A5J2	46		X		
22A5K3	D2	B47-20	22A5J2	47		X		
22A5K3	D3	B48-20	22A5J2	48		X		
22A5K3	E1	B49-20	22A5J2	49		X		
22A5K3	E2	B50-20	22A5J2	50		X		
22A5K3	F1	B52-20	22A5J2	52		X		
22A5K3	F2	B53-20	22A5J2	53		X		
22A5K3	F3	B54-20	22A5J2	54		X		
22A5K3	X1	A228-22	22A5J1	228		X		
22A5K3	X2	A227-22	22A5J1	227		X		
22A5K5	A1	B67-20	22A5J2	67		X		
22A5K5	A2	B68-20	22A5J2	68		X		
22A5K5	A3	B69-20	22A5J2	69		X		
22A5K5	B1	B70-20	22A5J2	70		X		
22A5K5	B2	B71 -20	22A5J2	71		X		
22A5K5	B3	B72-20	22A5J2	72		X		
22A5K5	E3	B51-20	22A5J2	51		X		
22A5K5	X1	A232-22	22A5J1	232		X		
22A5K5	X2	A231-22	22A5J1	231		X		
22A5P1	228	A210B22	22A3P1	C		X		
22A5P1	1	A1112A22N	GND			X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF.	DES. PIN		REF.	DES. PIN	E	M	P	
22A5P1	10	A1114A22	16A2P1	P		x		
22A5P1	100	A238C22	SPLICE			x		
22A5P1	102	A239A22	19TB4	G1		x		
22A5P1	103	A226D22	19TB4	E17		x		
22A5P1	104	A238B22	SPLICE			x		
22A5P1	105	A339B22	SPLICE			x		
22A5P1	107	A351A22N	GND			x		
22A5P1	108	A337B22	SPLICE			x		
22A5P1	109	A226C22	19TB4	C18		x		
22A5P1	110	A349A22	22A5P1	87		x		
22A5P1	113	A147F22	SPLICE			x		
22A5P1	114	A350A22	22A5P1	214		x		
22A5P1	118	A465B22	19TB4	J6		x		
22A5P1	119	A343A22	4A3J1	B		x		
22A5P1	12	A1108A22N	GND			x		
22A5P1	121	A473A22N	GND			x		
22A5P1	122	A337C22	SPLICE			x		
22A5P1	123	A468C22	19TB4	K19		x		
22A5P1	124	A471A22	16A2P1	D		x		
22A5P1	126	A187S20	19TB4	D4		x		
22A5P1	127	A91A22	GND			x		
22A5P1	(SHLD) 127	A472A22	16A1P2	37		x		
22A5P1	13	W112A22	8A2P1	Y		x		
22A5P1	135	A364A22N	GND			x		
22A5P1	136	A365A22	8TB8	K4		x		
22A5P1	137	A361A22	19TB5	B3		x		
22A5P1	138	A215B22	SPLICE			x		
22A5P1	139	A360A22	19TB5	D1		x		
22A5P1	140	A363A22	19TB5	B1		x		
22A5P1	141	A207D22	SPLICE			x		
22A5P1	142	A362A22	19TB5	D3		x		
22A5P1	143	A374A22	19TB5	G1		x		
22A5P1	144	A226L22	SPLICE			x		
22A5P1	145	A375A22	19TB5	J3		x		
22A5P1	149	TG599A22N	GND			x		
22A5P1	150	TG600A22	19TB4	B19		x		
22A5P1	152	A319A22	21K7P1	C		x		
22A5P1	153	A158F22	SPLICE			x		
22A5P1	157	A387A22N	19XK92	X2	X	x		
22A5P1	158	A371A22	1TB10	D6		x		
22A5P1	159	A366A22	19TB5	B2		x		
22A5P1	160	A215C22	SPLICE			x		
22A5P1	161	A367A22	19TB5	D4		x		
22A5P1	162	A368A22	19TB5	G3		x		
22A5P1	163	A207E22	SPLICE			x		
22A5P1	164	A369A22	19TB5	J1		x		
22A5P1	165	A459A22N	GND			x		
22A5P1	166	A458B22	SPLICE			x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	D	
22A5P1	168	A457A22	19TB4	J1				
22A5P1	169	A240A22	22A5P1	217		x		
22A5P1	17	A1103A22N	GND			x		
22A5P1	170	A237A22	19TB4	D1		x		
22A5P1	171	A339E22	SPLICE			x		
22A5P1	172	A317A22	19TB4	B6		x		
22A5P1	173	A314A22N	GND			x		
22A5P1	174	A290A22	19TB4	C2				
22A5P1	175	A137A22(BLU)	22A4P15	D		x		
22A5P1	176	A137B22(BLU)	19A4P249	T		x		
22A5P1	177	A313A22N	GND			x		
22A5P1	178	A291A22	19TB4	B2		x		
22A5P1	179	A289A22	19TB4	D18		x		
22A5P1	18	A1102A22	19TB4	E9	x			
22A5P1	18	A1102622	SPLICE			x		
22A5P1	181	A321A22	17P1	6		x		
22A5P1	182	A187K20	19TB4	J5		x		
22A5P1	183	A181A22	5A2J1	S		x		
22A5P1	184	A322B22	19TB4	B15		x		
22A5P1	186	A322A22	19TB4	A15		x		
22A5P1	187	A326B22	19TB4	H12		x		
22A5P1	188	A280A22	19TB4	J13		x		
22A5P1	189	A254C22	SPLICE			x		
22A5P1	190	A312A22N	GND			x		
22A5P1	195	A310A22N	GND			x		
22A5P1	196	A229A22	19TB4	H6		x		
22A5P1	198	TG158A22	20A1J09	Y		x		
22A5P1	199	A326A22	19TB4	F12		x		
22A5P1	2	A98A22N	GND			x		
	(SHLD)							
22A5P1	2	A1115A22	16TB1	J2		x		
22A5P1	200	A339D22	SPLICE			x		
22A5P1	203	A353C22	19TB4	K11		x		
22A5P1	204	TG156A22	20A1J09	G		x		
22A5P1	205	A180D22	SPLICE			x		
22A5P1	207	A458A22	SPLICE			x		
22A5P1	207	A458C22	20A1J09	F		x		
22A5P1	208	A287A22	19TB4	B17	x	x		
22A5P1	209	A460A22N	GND			x		
22A5P1	210	A229B22	19TB4	F6		x		
22A5P1	212	TG337A22	22A5P1	70		x		
22A5P1	213	TG875A22	22A4P15	Y		x		
22A5P1	214	A350A22	22A5P1	114		x		
22A5P1	215	A187N20	19TB4	H4		x		
22A5P1	217	A240A22	22A5P1	169		x		
22A5P1	218	A231C22	SPLICE			x		
22A5P1	225	L200A22N	GND			x		
22A5P1	226	L197C22	BTB7	G2		x		
22A5P1	227	A225A22N	GND			x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
22A5P1	229	A223A22N	GND			✓		
22A5P1	23	A1042A22	20A4P01	L		X		
22A5P1	231	A348A22N	GND			x		
22A5P1	232	A342B22	20TB3	2		x		
22A5P1	24	A1101A22	22A5P1	72		x		
22A5P1	25	TG540A22N	GND			x		
22A5P1	26	TG538A22	22A3P1	E		x		
22A5P1	27	TG245C20	SPLICE			x		
22A5P1	28	TG273A22	20P327	DD		x		
22A5P1	29	TG867A22	20A4P02	Z		x		
22A5P1	31	TG1B22	19TB4	J20		x		
22A5P1	33	L201A22N	GND			x		
22A5P1	34	L197D22	8TB7	H2		x		
22A5P1	37	A182A22	5A2J1	N		x		
22A5P1	38	A187H20	19TB4	E4		x		
22A5P1	38	L177A22	8J5	118		x		
22A5P1	39	A230A22	22A2P1	X		x		
22A5P1	39	L166B22	8TB6	B1		x		
22A5P1	4	A1104A22N	GND			x		
22A5P1	41	L178A22	8J5	125		x		
22A5P1	42	L176B22	8TB6	K1		x		
22A5P1	44	L179A22	8J5	126		x		
22A5P1	47	A408A22N	GND			x		
22A5P1	48	A406A22	19TB4	B11		x	x	
22A5P1	49	A407A22	19TB4	G18		x		
22A5P1	5	W113A22	8A2P1	4		x	x	
22A5P1	50	A353G22	19TB4	E11		x		
22A5P1	61	TG210A22N	GND			x		
22A5P1	62	TG215A22	20A7P03	R		x		
22A5P1	64	TG200F22	19TB4	D10		x		
22A5P1	65	TG208A22	19TB4	F19		x		
22A5P1	66	H60B22	3A1J1	E		x		
22A5P1	67	H70A22	10P1	H		x		
22A5P1	69	TG336B22	SPLICE			x		
22A5P1	70	TG337A22	22A5P1	212		x		
22A5P1	72	A1101A22	22A5P1	24		x		
22A5P1	73	A1100A22	22A3P1	F		x		
22A5P1	75	A217A22N	GND			x		
22A5P1	76	A180C22	SPLICE			x		
22A5P1	78	A148C22	19TB4	C16		x		
22A5P1	79	A216B22	SPLICE			x		
22A5P1	83	A309A22N	GND			x		
22A5P1	84	A147D22	SPLICE			x		
22A5P1	86	A315A22	19TB4	J7		x		
22A5P1	87	A349A22	22A5P1	110		x		
22A5P1	89	A284B22	SPLICE			x		
22A5P1	9	A1113A22N	GND			x		
22A5P1	90	A192B22	22A3P1	A		x		
22A5P1	91	A324A22	17P2	6		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	<u>E</u>	<u>M</u>	<u>P</u>	
22A5P1	92	A187J20	19TB4	H5		X		
22A5P1	93	A316A22	19TB4	G9		X		
22A5P1	94	A322C22	19TB4	G15		X		
22A5P1	96	A258B22	SPLICE			X		
22A5P1	97	A323A22N	GND			X		
22A5P1	99	A338A22	19K82P1	F		X		
22A5P2		A403A20	19TB4	G11		X		
22A5P2	10	L229A22	8J5	112		X		
22A5P2	11	L228D22	8TB8	D2		X		
22A5P2	13	L248A22	8J5	59		X		
22A5P2	14	L38J22	8TB8	D1		X		
22A5P2	16	W96A22	8TB5	D3		X		
22A5P2	17	W19F22	8TB8	H2		X		
22A5P2	2	L220C22	8TB8	J5		X		
22A5P2	20	L183A22	4A1J1	N		X		
22A5P2	21	L182C22	8TB7	C4		X		
22A5P2	223	L242A22N	GND			X		
22A5P2	224	L246D22	8TB8	H4		X		
22A5P2	26	L255A22	4A1J1	U		X		
22A5P2	27	L254A22	8A2P1	<u>K</u>		X		
22A5P2	28	W51A22	8Q4	<u>E</u>		X		
22A5P2	29	W2A22	8A2P1	<u>R</u>		X		
22A5P2	3	L222A22	1A2J1	<u>C</u>		X		
22A5P2	30	WIE22	8TB7	B3		X		
22A5P2	31	WIF22	8TB7	C3		X		
22A5P2	32	W49A22	8TB6	J4		X		
22A5P2	4	W98A22	8Q3	E		X		
22A5P2	40	A245A22	5A2J1	B		X		
22A5P2	42	A352A22	22A2P1	Y		X		
22A5P2	44	A409A22	22A5P2	72		X		
22A5P2	45	A502A20	4A3J1	R		X		
22A5P2	46	A211C22	SPLICE			X		
22A5P2	47	A219F22	19TB4	E3		X		
22A5P2	49	L245A22	5A2J1	X		X		
22A5P2	50	L38K22	8TB8	E1		X		
22A5P2	51	L244A22	1A2J1	G		X		
22A5P2	52	A222C20	SPLICE			X		
22A5P2	53	A480D22	SPLICE			X		
22A5P2	54	TG236A22	20A4P01	Z		X		
22A5P2	55	A186A22	SPLICE			X		
22A5P2	56	A220G20	19K31	B2		X		
22A5P2	58	A138C20	SPLICE			X		
22A5P2	59	A220F20	19K31	B2		X		
22A5P2	6	W19E22	8TB8	G2		X		
22A5P2	6	W99A22	8A3P1	Z		X		
22A5P2	61	A187P20	19TB4	J4		X		
22A5P2	62	A220H20	SPLICE			X		
22A5P2	64	A145B22(WHT)	19P250	<u>S</u>		X		
22A5P2	65	A221C22	SPLICE			X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
22A5P2	71	A219J22	19TB4	G3		X		
22A5P2	72	A409A22	22A5P2	44		X		
22A5P2	8	L233D22	8TB8	B2		X		
22A5P2	9	L234A22	1A2P1	S		X		
22A5XK4	A1	B5520	22A5J2	55		X		
22A5XK4	A2	B56-20	22A5J2	56		X		
22A5XK4	A3	B57-20	22A5J2	57		X		
22A5XK4	B1	B58-20	22A5J2	58		X		
22A5XK4	B2	B59-20	22A5J2	59		X		
22A5XK4	B3	B60-20	22A5J2	60		X		
22A5XK4	C1	B61-20	22A5J2	61		X		
22A5XK4	C2	B62-10	22A5J2	62		X		
22A5XK4	C3	B63-20	22A5J2	63		X		
22A5XK4	D1	B64-20	22A5J2	64		X		
22A5XK4	D2	B65-20	22A5J2	65		X		
22A5XK4	D3	B66-20	22A5J2	66		X		
22A5XK4	X1	A230-22	22A5J1	230		X		
22A5XK4	X2	A229-22	22A5J1	229		X		
2300TB1	K7	A1091A22(BLU)	18A1P1	55		X		
2301CP1P	U	1C6533-17A22* *	8TB4	H1	X			
2301CP2P	U	2C6533-17A22	8TB5	J5	X			
2301TB1	1	W121A22	1Z3P1	<u>V</u>	X	X	X	
2301TB2	1	W122A22	1Z3P1	R	X	X	X	
2302TR1P1	C	ARC116-3A20	8TB4	C2	X			
2303TR1P1	C	ARC115-3A20* *	8TB5	K5	X			
2304TR1P1	C	ARC114-3A22* *	8TB4	A2	X			
2319CP1P1	H	KY28-17A20	8TB4	J2	X			
24A4P311	AA	A957A20	24A4P311	BB			X	
24A4P311	<u>A</u>	A542B22	22A3P1	A			X	
24A4P311	B	A134A20N	GND					
24A4P311	BB	A957A20	24A4P311	AA			X	
24A4P311	C	A375A22(BLU)	19A3J1	P			X	
24A4P311	CC	A174A22	19A1J1	<u>H</u>			X	
24A4P311	<u>C</u>	A528L20	19TB4	C4			X	
24A4P311	<u>D</u>	A323C20	SPLICE				X	
24A4P311	<u>D</u>	A541D22	SPLICE				X	
24A4P311	<u>E</u>	A250A20N	GND				X	
24A4P311	E	A968F22	SPLICE				X	
24A4P311	EE	A553B22	22A3P1	<u>K</u>			X	
24A4P311	F	A558B20	22A3P1	<u>A</u>			X	
24A4P311	FF	A576B22	22A2P1	<u>D</u>			X	
24A4P311	G	A138B20(WHT)	3A1J1	<u>CC</u>			X	
24A4P311	GG	A580A22	17P2	1			X	
24A4P311	<u>G</u>	A570A22	17P1	2			X	
24A4P311	H	A138B20N(BLU)	GND				X	
24A4P311	HH	A554B22	22A3P1	C			X	
24A4P311	<u>H</u>	A572B22	SPLICE				X	
24A4P311	<u>I</u>	A582A22	17P2	3			X	
24A4P311	J	A175A20N	GND				X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
24A4P311	<u>K</u>	A130C22(BLU)	SPLICE				X	
24A4P311	<u>L</u>	A173A22	17P1	7			X	
24A4P311	M	A571A22	17P1	3			X	
24A4P311	<u>M</u>	A129C22(BLU)	SPLICE				X	
24A4P311	<u>N</u>	A583B22	SPLICE				X	
24A4P311	<u>N</u>	A176A22(BLU)	SPLICE				X	
24A4P311	<u>P</u>	A585A22	19A1J1	<u>E</u>			X	
24A4P311	<u>R</u>	A586A22	19A1J1	<u>G</u>			X	
24A4P311	<u>T</u>	A129C22(WHT)	SPLICE				X	
24A4P311	<u>T</u>	A543B22	22A3P1	<u>E</u>			X	
24A4P311	<u>U</u>	A176A22(WHT)	19A12P1	<u>C</u>			X	
24A4P311	W	A328C22(BLU)	SPLICE				X	
24A4P311	W	A569A22	17P1	1			X	
24A4P311	X	A325A22(WHT)	19A3J1	R			X	
24A4P311	X	A325A22(WHT)	19A3J1	R			X	
24A4P311	<u>X</u>	A579B22	22A2P1	<u>E</u>			X	
24A4P311	<u>Y</u>	A581A22	17P2	2			X	
3A1	26 VAC BUS	X30B22	3A1P1	T	X	X		
3A1J1	A	A222B20	SPLICE		X	X		
3A1J1	A	A222A20	2XK16	F1	X			
3A1J1	AA	A122C16	SPLICE		X	X		
3A1J1	AA	A420B16	SPLICE				X	
3A1J1	<u>A</u>	X19B20	3T1P1	A	X	X		
3A1J1	<u>A</u>	X6B22	3T1P1	L			X	
3A1J1	<u>B</u>	A220C20	SPLICE		X	X		
3A1J1	BB	A366B22(WHT)	19A1J4	X			X	
3A1J1	BB	A366C22N	GND				X	
3A1J1	<u>B</u>	X20B20	3T1P1	R	X	X		
3A1J1	<u>B</u>	X7B22	3T1P1	U			X	
3A1J1	C	A220D20	SPLICE		X	X		
3A1J1	<u>CC</u>	A138B20(WHT)	24A4P311	G			X	
3A1J1	<u>CC</u>	A171B22	19S20	S2	X	X		
3A1J1	<u>C</u>	L195M22 * *	8TB4	G1	X	X		
3A1J1	<u>DD</u>	A467B16	21K1	B2	X	X	X	
3A1J1	<u>D</u>	L216B22N	GND			X		
3A1J1	<u>E</u>	H60B22	22A5P1	66		X		
3A1J1	EE	A470B16	21K1	A2	X	X	X	
3A1J1	<u>E</u>	TG371B22(WHT)	SPLICE		X	X	X	
3A1J1	<u>F</u>	A344A20	2TB2	1		X		
3A1J1	F	A344A20	2TB2	2	X			
3A1J1	FF	A122D16	SPLICE		X	X		
3A1J1	FF	A359B16	19K31	D2			X	
3A1J1	<u>F</u>	TG429B22(WHT)	20P324	<u>Z</u>	X		X	
3A1J1	<u>F</u>	TG429B22(WHT)	SPLICE			X		
3A1J1	<u>G</u>	E30B22	1M8P1	B	X	X	X	
3A1J1	GG	H25B20	10S6		X	X	X	
3A1J1	<u>G</u>	TG429B22(ORN)	20P324	AA	X		X	
3A1J1	<u>G</u>	TG429B22(ORN)	SPLICE			X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
3A1J1	H	A244F22(WHT)	17A1P1	J	X	X		
3A1J1	HH	A271B20	5A1P1	X	X	X		
3A1J1	HH	A509A20	21CB1				X	
3A1J1	<u>H</u>	A1260A22(WHT)	16A4P1	1		X		
3A1J1	<u>H</u>	A221B22	SPLICE		X	X		
3A1J1	<u>J</u>	F1C22	4Z1P1	B	X	X	X	
3A1J1	JJ	A172B16	SPLICE		X	X		
3A1J1	K	F1D22	4M1P1	B		X	X	
3A1J1	KK	A308B20	1TB13	3			X	
3A1J1	KK	A76B20	SPLICE		X	X		
3A1J1	<u>K</u>	A138D20(WHT)	17A1P1	J			X	
3A1J1	<u>K</u>	A175B22	19S18	S1	X	X		
3A1J1	<u>L</u>	A244B22	SPLICE		X	X		
3A1J1	LL	A172D16	SPLICE		X	X		
3A1J1	M	A211B22	SPLICE		X	X		
3A1J1	M	A63B20	SPLICE				X	
3A1J1	N	X11B22	3J1	W			X	
3A1J1	P	A359B20	19K31	D2	X	X		
3A1J1	<u>P</u>	X22A22	3T1P1	C	X	X		
3A1J1	<u>P</u>	X17B22	3C1				X	
3A1J1	<u>P</u>	X23C22	3T1P1	D		X		
3A1J1	<u>R</u>	X16B22	3T2	HV			X	
3A1J1	R	X32B22	3J1	W	X	X		
3A1J1	<u>R</u>	X23A22	3T1P1	D	X	X		
3A1J1	S	X13A22	3T2	LV			X	
3A1J1	S	X35B22	3C1	<u>T</u>	X	X		
3A1J1	T	X12A22	3XK3	A2			X	
3A1J1	T	X30A22	3T2	LV	X	X		
3A1J1	U	X14A20	3XK3	B2			X	
3A1J1	U	X29B22	3T2	HV	X	X		
3A1J1	V	X1A20	3XK4	A3			X	
3A1J1	V	X27A22	3T1P1	F	X	X		
3A1J1	W	X11B20	3K1	A2	X	X		
3A1J1	W	X2B20	3TB1	D2			X	
3A1J1	X	X12B20	3K1	B2	X	X		
3A1J1	X	X13B20	3K1	C2	X	X		
3A1J1	X	X3A20	3XK4	A1			X	
3A1J1	Y	X4A20	3XK4	B1			X	
3A1J1	Y	X4B20	20CB5	(C)			X	
3A1J1	Y	X13B20	3K1	C2	X	X		
3A1J1	<u>Y</u>	A346A16	2TB2	5	X	X		
3A1J1	<u>Y</u>	A396B16	SPLICE				X	
3A1J1	<u>Z</u>	X18B20	3TP1P1	<u>P</u>	X	X		
3A1J1	Z	X5B22	3T1P1	<u>K</u>			X	
3A1J1	<u>Z</u>	A345A16	2TB2	4	X	X		
3A1J1	<u>Z</u>	A503B20	19XK80	E1			X	
3A1J2	<u>P</u>	A1137B20(WHT)	16A4P1	5		X		
3A1J2	S	A1135B22(WHT)	16A2P1	A	X			

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
3A1J2	T	A1136B22(WHT)	16A4P1	7		X		
3A1J2	U	A1138B20(WHT)	SPLICE			X		
3A1J2	V	A1140B20	16A1P1	A		X		
3A1J2	W	A1028B16	SPLICE			X		
3A1J2	X	A1141B22	SPLICE			X		
3A1J2	Y	A1049B22	10A1J1	X		X		
3A1J3		L195N22	3A1P1	<u>C</u>		X		
3A1P1	A	A222A20	19CB2		X	X		
3A1P1	AA	A122A16	19CB6	25	X	X		
3A1P1	AA	A420A16	19CB2				X	
3A1P1	<u>A</u>	X19A20	20CB4	ϕB	X	X		
3A1P1	<u>A</u>	X6A22	20CB4	ϕB			X	
3A1P1	<u>B</u>	A220A20	19CB1		X	X		
3A1P1	BB	A366A22	19CB1				X	
3A1P1	<u>B</u>	X20A20	20CB4	ϕC	X	X		
3A1P1	C	A220B20	19CB1		X	X		
3A1P1	CC	A138A20	17CB1				X	
3A1P1	CC	A171A22	19CB8		X	X		
3A1P1	<u>C</u>	L195N22	3A1J3			X		
3A1P1	<u>DD</u>	A467A16	21CB3			X	X	
3A1P1	<u>D</u>	L216A22N	GND			X		
3A1P1	E	H60A22	10CB3			X		
3A1P1	EE	A470A16	21CB4		X	X	X	
3A1P1	<u>E</u>	TG371A22	20CB3		X	X	X	
3A1P1	<u>F</u>	A344B20	10CB3		X	X		
3A1P1	FF	A122B16	19CB6	25	X	X		
3A1P1	FF	A359A16	21CB6				X	
3A1P1	<u>F</u>	TG429A22	20CB5	ϕA	X	X	X	
3A1P1	<u>G</u>	E30A22	1CB16		X	X	X	
3A1P1	GG	H25A20	10CB4		X	X	X	
3A1P1	<u>G</u>	TG430A22	20CB5	ϕC	X	X	X	
3A1P1	H	A244E22	17CB1		X	X		
3A1P1	HH	A271A20	21CB5		X	X		
3A1P1	HH	A509B20	21CB2				X	
3A1P1	<u>B</u>	X7A22	20CB4	ϕC			X	
3A1P1	<u>H</u>	A221A22	19CB4		X	X		
3A1P1	J	F1A22	4CB1		X	X	X	
3A1P1	JJ	A172C16	21CB4		X	X		
3A1P1	K	F1B22	4CB1		X	X	X	
3A1P1	KK	A308A20	21CB2				X	
3A1P1	KK	A76A20	21CB2		X	X		
3A1P1	<u>K</u>	A138C20	17CB1				X	
3A1P1	<u>K</u>	A175A22	19CB7		X	X		
3A1P1	<u>L</u>	A244A22	17CB1		X	X		
3A1P1	LL	A172E16	21CB3		X	X		
3A1P1	<u>M</u>	A63A20	19CB3				X	
3A1P1	<u>M</u>	A211A22	19CB3		X	X		
3A1P1	<u>N</u>	X11A22	3CB4				X	
3A1P1	P	A359A20	21CB6		X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
3A1P1	P	X17A22	3CB5				X	
3A1P1	P	X22B22	20CB5	∅A	X	X		
3A1P1	P	X23D22	20CB5	∅C		X		
3A1P1	R	X16A22	3CB3				X	
3A1P1	R	X32A22	3CB4		X	X		
3A1P1	R	X23B22	20CB5	C	X	X		
3A1P1	S	X13B22	28 VAC BUS				X	
3A1P1	S	X35A22	3CB5		X	X		
3A1P1	V	X27B22	4CB1		X	X		
3A1P1	T	X12B22	4CB1				X	
3A1P1	T	X30B22	3A1	26 VAC BUS	X	X		
3A1P1	U	X14B20	115 VAC BUS				X	
3A1P1	U	X29A22	3CB3			X		
3A1P1	V	X1B20	20CB4	(A)			X	
3A1P1	W	X11C20	20CB5	∅C	X	X		
3A1P1	W	X11C20	20CB4	∅		X		
3A1P1	W	X2C20	20CB4	(B)			X	
3A1P1	X	X12C20	20CB4	∅B	X	X		
3A1P1	X	X3B20	20CB5	(A)			X	
3A1P1	Y	X13C20	20CB4	∅C	X	X		
3A1P1	Y	A346B16	19CB6		X	X		
3A1P1	Y	A396A16	19CB2				X	
3A1P1	Z	X18A20	20CB4	A	X	x		
3A1P1	Z	X5A22	20CB4	∅A			X	
3A1P1	Z	A503A20	19CB3	Z			X	
3A1P1	Z	A345B16	19CB6		X	X		
3A1P2	P	A1137A20	16CB5			X		
3A1P2	S	A1135A22	16CB1			X		
3A1P2	T	A1136A22	16CB2			X		
3A1P2	U	A1138A20	16CB4			X		
3A1P2	V	A1140A20	16CB3			X		
3A1P2	W	A1028A16	16CB6			X		
3A1P2	X	A1141A22	18CB1			X		
3A1P2	Y	A1049A22	18CB2			X		
3CB1		V1A22	2A1P2	S			X	
3CB1		V1B22	2A1P2	T			X	
3CB1		V6B22	2A1P2	S	X	X		
3CB1		V7A22	2A1P2	R	X	X		
3CB2		V2A22	2A1P2	R			X	
3CB2		X59A22N	GND		X	X		
3CB2		X58B22	2A1P2	T	X	X		
3CB3		X16A22	3A1P1	R			X	
3CB3		X29A22	3A1P1	U		X		
3CB4		X11A22	3A1P1	N			X	
3CB4		X32A22	3A1P1	R	X	X		
3CB5		X17A22	3A1P1	P			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
3CB5		X35A22	3A1P1	S	X	X		
3CB6		X16A14	3PS2P1	B	X	X		
3CB6	5A	X56A22N	GND		X	X		
3CB6	3	X57A22	3XK2	A2	X	X		
3CB6	A1	X11A14	3K1	A1	X	X		
3CB6	A1	X11A14	3K1	A2	X	X		
3CB6	A2	X14A14	3PS2P1	F	X	X		
3CB6	B1	X12A14	3K1	B1	X	X		
3CB6	B1	X12A14	3K1	B2		X		
3CB6	B2	X15A14	3PS2P1	T	X	X		
3CB6	C1	X13A14	3K1	C1	X	X		
3CB6	C1	X13A14	3K1	C2	X	X		
3CB7		V1A8	2K9	A2	X	X		
3CB7		V4A22N	GND		X	X		
3CB7	A2	V2A8	3PS1P1	C	X	X		
3CB7	3	V5A22	3XK2	B3	X	X		
3C1		X17B22	3A1J1	P			X	
3C1		X17C22	3C2				X	
3C1	—	X36A22	3C2	+	X	X		
3C1	t	X35B22	3A1J1	S	X	X		
3C2		X19A22N	GND				X	
3C2		X17C22	3C1				X	
3C2	+	X63A22N	GND		X	X		
3C2	+	X36A22	3C1	—	X	X		
3G1	T1	X1A14	3K1	A1	X	X		
3G1	T2	X2A14	3P2	B		X		
3G1	T2	X2A14	3K1	B1	X			
3G1	T3	X3A14	3K1	C1	X	X		
3G1	T4	X4A14	3P2	C		X		
3G1	T4	X4A14N	GND		X	X		
3G1P1	A	X37B22	2TB1	K	X	X		
3G1P1	B	X46A22	3VR1P1	R	X	X		
3G1P1	C	X38B22	2TB1	B8	X	X		
3G1P1	D	X47A22	3VR1P1	S	X	X		
3G1P1	E	X39B22	2TB1	H	X	X		
3G1P1	F	X48A22	3VR1P1	T	X	X		
3G1P2	A	X41A22	3VR1P1	A	X	X		
3G1P2	B	X42A22	3VR1P1	B	X	X		
3G1P2	D	X43A22	3VR1P1	D	X	X		
3G1P2	E	X44A22	3VR1P1	E	X	X		
3G1P2	F	X45A22	3VR1P1	F	X	X		
3J1	G	X18A22N	GND				X	
3J1	G	X33A22N	GND		X	X		
3J1	GND	X34A22N	GND		X	X		
3J1	W	X11B22	3A1J1	N			X	
3J1	W	x32B22	3A1J1	R	X	X		
3J2	A	X1B14	3K1	A1		X		
3J2	C	X4B14N	GND			X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
3J2	B	X2B14	3K1	B1		X		
3J2	D	X3B14	3K1	C1		X		
3K1	A1	X1A14	3G1	T1		X		
3K1	A1	X1B14	3J2	A	X	X		
3K1	A1	X1C20	3VR1P1	H	X	X		
3K1	A1	X11A14	3CB6	A2	X	X		
3K1	A2	X11A14	3CB6	A1	X	X		
3K1	A2	X11B20	3A1J1	W	X	X		
3K1	A3	X5A20	3PS1P2	A	X	X		
3K1	B1	X2B14	3J2	B	X	X		
3K1	B1	X2B20	3VR1P1	J		X		
3K1	B1	X2C20	3VR1P1	J	X	X		
3K1	B2	X12A14	3CB6	B1		X		
3K1	B1	X12A14	3CB6	B1	X	X		
3K1	B2	X12B20	3A1J1	X	X	X		
3K1	B3	X6A20	3PS1P2	B	X	X		
3K1	C1	X13A14	3CB6	C1	X	X		
3K1	C1	X3A14	3G1	T3		X		
3K1	C1	X3B14	3J2	D	X	X		
3K1	C1	X3B20	3VR1P1	K		X		
3K1	C1	X3C20	3VR1P1	K	X	X		
3K1	C2	X13A14	3CB6	C1	X	X		
3K1	C2	X13B20	3A1J1	X	X	X		
3K1	C2	X13B20	3A1J1	Y	X	X		
3K1	C3	X7A20	3PS1P2	C	X	X		
3K1	X1	V10A22	3S2	S2			X	
3K1	X1	X55B22	1A2J1	P		X		
3K1	X1	X55C22	3XK2	X1	X	X		
3K1	X2	V15A22N	GND				X	
3K1	X2	X62A22N	GND		X	X		
3K1	11	P59A22	2K10	X2	X	X		
3K1	11	X60A22	3K2	X2	X	X		
3K1	11	X60A22	3XK2	X2	X			
3K1	12	X61A22N	GND		X	X		
3K1	13	W132C22	8TB4	H11	X	X		
3K2	X1	V12A22	3S3	S2			X	
3K2	X2	V16A22N	GND				X	
3K2	X2	X60A22	3K1	11		X		
3K4	E2	H70A22	10P1	H			X	
3K5P1	C	X35A22N	GND				X	
3K5P1	E	V27A22	3XK6	X1			X	
3K5P1	F	V1D22	2A1J2	T			X	
3K5P1	H	W114A22N	GND				X	
3K5P1	K	X25D22	3TB1	D1			X	
3K7P1	C	X34A22N	GND				X	
3K7P1	D	W116A22N	GND				X	
3K7P1	E	W115A22	3XK6	B2			X	
3K7P1	K	X32C22	3TB1	F2			X	
3MG1	B	V24A12N	GND				X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
3MG1P1	C	X32A20	3TB1	A2			X	
3MG1P1	D	V32A12	3S3	L2			X	
3PS1P1	A	V3A8N	GND		X	X		
3PS1P1	A	V20A8N	GND				X	
3PS1P1	C	V19A8	3S2	L2			X	
3PS1P1	C	V2A8	3CB7	A2	X	X		
3PS1P2	A	X25A20A	3TB1	A1			X	
3PS1P2	A	X5A20	3K1	A3	X	X		
3PS1P2	B	X27A20N	SPLICE			X		
3PS1P2	B	X6A20	3K1	B3	X	X		
3PS1P2	C	X29A20C	3TB1	F1			X	
3PS1P2	C	X7A20	3K1	C3	X	X		
3PS1P2	D	X8A20N	GND		X	X		
3PS1P2	D	X27B20N	SPLICE		X	X		
3PS1P2	E	X9A20N	GND				X	
3PS1P2	E	X29B20C	3TB1	G1	X	X		
3PS1P2	F	X10A20N	GND				X	
3PS1P2	F	X25B20A	3TB1	B1			X	
3PS2	-	P72A2N	GND		X	X		
3PS2	+	P71A2	28 VDC		X	X		
			TRU BUS					
3PS2P1	B	X16A14	3CB6		X	X		
3PS2P1	D	X17A16N	GND		X	X		
3PS2P1	F	X14A14	3CB6	A2	X	X		
3PS2P1	T	X15A14	3CB6	B2	X	X		
3P2	A	X1A14	3G1	T1		X		
3P2	B	X2A14	3G1	T2		X		
3P2	C	X4A14	3G1	T4				
3P2	D	X3A14	3G1	T3				
3S1	1	V8A22	2A2P1	P			X	
3S1	2	V1E22	2A2P1	A			X	
3S1	2	X50B22	3A2P1	G	X	X		
3S1	3	V5A22	2A2P1	R			X	
3S1	3	X51A22	2A2P1	H	X	X		
3S1	4	V6B22	SPLICE				X	
3S1	5	V2C22	2A2P1	B			X	
3S1	5	X53B22	2A2P1	J	X	X		
3S1	6	V6A22	SPLICE				X	
3S1	6	X54A22	2A2P1	K	X	X		
3S2	L2	V19A8	3PS1P1	C			X	
3S2	S1	V5B22	2A2P1	R			X	
3S2	S1	V5C223	XK6	A1			X	
3S2	S2	V10A22	3K1	X1			X	
3S2	S3	V14A22N	GND				X	
3S3	L2	V23A12	3MG1P1	D			X	
3S3	S1	V11A22	3XK6	C3			X	
3S3	S2	V12A22	3K2	X1			X	
3S3	S3	V13A22N	GND				X	
3TB1	A1	X25A20A	3PS1P2	A			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
3TB1	A2	X32A20	3MG1P1	C			X	
3TB1	B1	X25B20A	3PS1P2	F			X	
3TB1	B2	X32B20	3XK6	D3			X	
3TB1	C1	X25C20	3XK6	D1			X	
3TB1	C2	X2A20	3XK6	D2			X	
3TB1	D1	X25D22	3K5P1	K			X	
3TB1	D2	X2B20	3A1J1	W			X	
3TB1	E2	X2F20	3XK4	A2			X	
3TB1	F1	X29A20C	3PS1P2	C			X	
3TB1	F2	X32C22	3K7P1	K			X	
3TB1	G1	X29B29C	3PS1P2	E			X	
3TB1	H1	X29C20	3XK4	B2			X	
3TB1	H2	X2H20	3XK3	B3			X	
3TB1	J1	X29D20	3XK3	B1			X	
3TB1	K2	X2G20	3XK3	A3			X	
3TB2	A1	TG591B22(BLU)	20A2P01	S		X		
3TB2	A4	TG594E22(WHT)	20J331	K		X		
3TB2	B1	TG591D22(BLU)	20A1P04	HH		X		
3TB2	B2	TG592B22(WHT)	20A6P01	D		X		
3TB2	B4	TG594F22(WHT)	20A20P1	H		X		
3TB2	B5	A1170A22(BLU)	16A1P3	32		X		
3TB2	C5	TG594E22(BLU)	20J331	L		X		
3TB2	C1	TG591C22(BLU)	20J331	T		X		
3TB2	C2	TG591B22(WHT)	20A2P01	R		X		
3TB2	C3	TG592B22(BLU)	20A6P01	E		X		
3TB2	C4	TG594B22(WHT)	SPLICE			X		
3TB2	D3	TG591D22(WHT)	20A1P04	BB		X		
3TB2	D3	TG591B22(ORN)	20A2P01	T		X		
3TB2	D4	A1170A22(WHT)	16A1P3	31		X		
3TB2	D5	TG594F22(BLU)	20A20P1	J		X		
3TB2	E2	TG591C22(WHT)	20J331	U		X		
3TB2	E3	TG591C22(ORN)	20J331	S		X		
3TB2	E5	TG594B22(BLU)	SPLICE			X		
3TB2	G1	TG591A22	3T1P1	C		X		
3TB2	G2	ASN128-14C22(WHT)	3425A1P1	T		X		
3TB2	G3	ASN128-14C22(BLU)	3425A1P1	U		X		
3TB2	G4	TG594A22	3T1P1	N		X		
3TB2	J2	ASN128-14B22(WHT)	3400DS2P1	V		X		
3TB2	J3	ASN128-14B22(BLU)	3400DS2P1	D		X		
3TB2	H2	TG593A22	3T1P1	H		X		
3TB2	H3	TG592A22	3T1P1	X		X		
3TB2	H5	TG595A22	3T1P1	Z		X		
3TB2	K2	ASN128-14A22(WHT)	3400DS1P1	68		X		
3T1P1	A	X19B20	3A1J1	A	X	X		
3T1P1	A	X21A22	3XK3	A1			X	
3T1P1	B	X21A20N	GND			X		
3T1P1	B	X37A22N	GND				X	
3T1P1	C	TG593A22	SPLICE				X	
3T1P1	C	X22A22	3A1J1	P		X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
3T1P1	C	X22C22	3A1P1	<u>R</u>	X	X		
3T1P1	<u>C</u>	TG591A22	SPLICE		X			
3T1P1	<u>C</u>	TG591A22	3TB2	G1		X		
3T1P1	D	TG594A22	SPLICE				X	
3T1P1	D	X23A22	3A1J1	<u>R</u>		X		
3T1P1	D	X23C22	3A1J1	<u>P</u>	X	X		
3T1P1	E	TG595A22	SPLICE				X	
3T1P1	E	X25A22N	GND		X	X		
3T1P1	F	A141A20(ORN)	17A1P1	CC			X	
3T1P1	F	X27A22	3A1J1	V	X	X		
3T1P1	G	A141A20(WHT)	17A1P1	FF			X	
3T1P1	G	X28A22N	GND		X	X		
3T1P1	H	A151A20(BLU)	17A1P1	BB			X	
3T1P1	H	TG593A22	SPLICE		X			
3T1P1	H	TG593A22	3TB2	H2		X		
3T1P1	J	A297A22(BLU)	17A1P1	BB	X	X		
3T1P1	J	X24A22	3XK4	C2			X	
3T1P1	K	A297A22(WHT)	17A1P1	FF	X	X		
3T1P1	K	X5B22	3A1J1	Z			X	
3T1P1	L	X6B22	3A1J1	<u>A</u>			X	
3T1P1	L	A297A22(ORN)	17A1P1	CC	X			
3T1P1	M	A335A22	19A12P1	A	X	X		
3T1P1	M	X23A22	3XK4	D1			X	
3T1P1	N	TG594A22	SPLICE		X			
3T1P1	N	TG594A22	3TB4	G4		X		
3T1P1	N	X22A22	3XK4	C1			X	
3T1P1	P	TG591A22	SPLICE				X	
3T1P1	<u>P</u>	X18B20	3A1J1	Z	X	X		
3T1P1	<u>R</u>	TG592A22	SPLICE				X	
3T1P1	R	X20B20	3A1J1	<u>B</u>	X	X		
3T1P1	S	A590A22(BLU)	SPLICE				X	
3T1P1	U	X7B22	3A1J1	<u>B</u>			X	
3T1P1	V	A590A22(WHT)	19A12P1	<u>A</u>			X	
3T1P1	X	TG592A22	SPLICE		X			
3T1P1	X	TG592A22	3TB2	H3		X		
3T1P1	Y	A332B22	19TB6	B2	X	X		
3T1P1	Z	TG595A22	SPLICE		X			
3T1P1	Z	TG595A22	3TB2	H5		X		
3T2	G	X36A22N	GND				X	
3T2	G	X31A22N	GND		X	X		
3T2	LV	X30A22	3A1J1	T	X	X		
3T2	HV	X29B22	3A2J1	U	X	X		
3T2	LV	X13A22	3A1J1	S			X	
3T2	HV	X16B22	3A1J1	R			X	
3T3P1	A	X37A22	2TB1	D	X	X		
3T3P1	B	X38A22	2TB1	C	X	X		
3T3P1	C	X39A22	2TB1	F	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
3T3P1	D	X40A22	3VR1P1	P	X	X		
3VR1P1	A	X41A22	3G1P2	A	X	X		
3VR1P1	B	X42A22	3G1P2	B	X	X		
3VR1P1	D	X43A22	3G1P2	D	X	X		
3VR1P1	E	X44A22	3G1P2	E	X	X		
3VR1P1	F	X45A22	3G1P2	F	X	X		
3VR1P1	G	X49A22N	GND		X	X		
3VR1P1	H	X1C20	3K1	A1		X		
3VR1P1	H	X1B20	3K1	A1	X			
3VR1P1	J	X2B20	3K1	B1	X	X		
3VR1P1	J	X2C20	3K1	B1		X		
3VR1P1	K	X3B20	3K1	C1	X	X		
3VR1P1	K	X3C20	3K1	C1		X		
3VR1P1	L	X37C22	2TB1	J	X	X		
3VR1P1	M	X38C22	2TB1	A	X	X		
3VR1P1	N	X39C22	2TB1	G	X	X		
3T3P1	P	X40A22	3T3P1	D	X	X	X	X
3T3P1R	R	X46A22	3G1P1	B	X	X		
3T3P1	S	X47A22	3G1P1	D	X	X		
3VR1P1	T	X48A22	3G1P1	F	X	X		
3T3P1	U	X50A22	2A2J1	G	X	X		
3T3P1	V	X52B22	1A2J1	K	X	X		
3T3P1	W	X53A22	2A2J1	J	X	X		
3XK2	A1	X58A22	2A1J2	T	X	X		
3XK2	A2	X57A22	3CB6	3	X	X		
3XK2	B2	V6A22	2A1J2	S	X	X		
3XK2	B3	V5A22	3CB7	3	X	X		
3XK2	X1	X55C22	3K1	X1	X	X		
3XK2	X2	X60A22	3K1	11	X	X		
3XK2	A1	X21A22	3T1P1	A			X	
3XK3	A2	X12A22	3A1J1	T			X	
3KX2	A3	X2G20	3TB1	K2			X	
3XK3	B1	X29D20	3TB1	J1			X	
3XK3	B2	X14A20	3A1J1	U			X	
3XK3	B3	X2H20	3TB1	H2			X	
3XK3	X1	V25A22	3XK6	A2			X	
3XK3	X2	V26A20N	GND				X	
3XK4	A2	X2F20	3TB1	E2			X	
3XK4	B2	X29C20	3TB1	H1			X	
3XK4	C3	C31A22	3XK4	D3			X	
3XK4	2	TG337A22	22A4P313	E			X	
3XK4	A1	X3A20	3A1J1	X			X	
3XK4	A3	X1A20	3A1J1	V			X	
3XK4	B1	X4A20	3A1J1	Y			X	
3XK4	C1	X22A22	3T1P1	N			X	
3XK4	C2	X24A22	3T1P1	J			X	
3XK4	D1	X23A22	3T1P1	M			X	
3XK4	D2	X38A22N	SPLICE				X	
3XK4	D3	X31A22	3XK4	C3			X	
3XK4	X2	V29A22N	GND					

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
3XK4	X1	TG271G20	SPLICE			X	X	
3XK4	1	TG337C22	20P325	Y			X	
3XK6	A1	V5C22	3S2	S1			X	
3XK6	A2	V25A22	3XK3	X1			X	
3XK6	B2	W115A22	3K7P1	E			X	
3XK8	B3	W111A22	8A2P1	U			X	
3XK6	C2	V6D22	2A2J1	C			X	
3XK6	C3	V11A22	3S3	S1			X	
3XK6	D1	X25C20	3TB1	C1			X	
3XK6	D2	X2A20	3TB1	C2			X	
3XK6	D3	X32B20	3TB1	B2			X	
3XK6	X2	V28A22N	GND				X	
3XK6	X1	V27A22	3K5P1	E			X	
3XK8	X2	V7A22N	GND				X	
3XK8	X1	V8B22	2A2J1	P			X	
3400CP1P1	L	ARN123-69A22 * *	8TB4	E3	X			
3400TB1	D10	A1060A22(WHT)	16A1P3	45		X		
3400DS1P1	62	ARN123-78A22	8TB3	H2	X			
3400DS1P1	63	ARN123-79A22 * *	8TB6	4C	X			
3400DS2P1	D	ASN128-14B22(BLU)	3TB2	J3		X		
3400DS2P1	H	ASN43-31A20	8TB5	K2	X			
3400DS2P1	K	ASN43-32A20	8TB5	K4	X			
3400DS2P1	V	ASN128-14B22(WHT)	3TB2	J2		X		
3400DS1P1	68	ASN128-14A22(WHT)	3TB2	K2		X		
3400TB1	J10	A1060A22(BLU)	16A1P3	43		X		
3400TB1	K11	A1060A22(ORN)	16A1P3	44		X		
3400TB1	K11	A85A22N	GND			X		
	(SHLD)							
3405CP1P1	21	ARN123-58A22	8TB4	J3	X			
3405J1	B	L901E20 * * *	TB1	2	X		X	
3405P1	B	L901F20 * * *	TB2	2	X		X	
3406R1P1	M	ARN89-12A22	8TB4	H2	X			
3407CP1P1	U	ASN43-24A20	8TB4	H3	X			
3408DS1P1	1	1-22	SPLICE			X		
3408DS1P1	2	2-22	SPLICE			X		
3408DS1P1	12	12-22	SPLICE			X		
3408DS1P1	5	APN209-23A22	8TB3	B3	X			
3408DS1P1	10	APN209-24A22 *	SPLICE		X	X	X	
3408DS1P2	1	1-22	END CAP			X		
3408DS1P2	2	A1088A22(WHT)	16A1P3	29		X		
3408DS1P2	3	3-22	END CAP			X		
3408DS1P2	4	4-22	END CAP			X		
3408DS1P2	5	5-22	END CAP			X		
3408DS1P2	6	6-22	END CAP			X		
3408DS1P2	7	7-22	END CAP			X		
3408DS1P2	8	8-22	END CAP			X		
3408DS1P2	9	9-22	END CAP			X		
3408DS1P2	10	A1087A22(BLU)	18A1P1	5		X		
3408DS1P2	11	A1088A22(BLU)	16A1P3	30		X		
3408DS1P2	12	A1087A22(WHT)	18A1P1	1		X		
3410CP1P1	12	APX72-768A22	3TB4	32	X			

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
3408DS1PP2	13	13-22	END CAP			X		
3422CP1PP1	13	APR39-29A22	8TB4	K3	X			
3425A1P1P1	T	ASN128-14C22(WHT)	3TB2	G2		X		
3425A1P1	U	ASN128-14C22(BLU)	3TB2	G3		X		
4A1A1J1		L195AD22	4A1P1	L	X	X	X	
4A1J1	A	L160E22N	GND		X	X	X	
4A1J1	A	TG332B22	20P324	R	X		X	
4A1J1	B	L156C22	8TB6	D2	X	X	X	
4A1J1	B	W31A22	8J5	21		X		
4A1J1	B	W31A22	8XA4	43	X		X	
4A1J1	C	L152B22	8PS2P1	A	X	X	X	
4A1J1	C	W38A22	8J5	19		X		
4A1J1	C	W38A22	8XA4	63	X		X	
4A1J1	D	L29C22	8TB4	B4	X	X	X	
4A1J1	D	W62B22	8TB4	J5	X	X	X	
4A1J1	E	L166C22	8TB6	C1	X	X	X	
4A1J1	E	W22E22	8TB3	K3	X	X	X	
4A1J1	F	L162B22	8PS3P1	A	X	X	X	
4A1J1	G	L176C22	8TB6	D1	X	X	X	
4A1J1	G	L29K22	8TB3	D4	X	X	X	
4A1J1	H	L172B22	8PS4P1	A	X	X	X	
4A1J1	H	L189B22	8J5	6	X	X		
4A1J1	H	L189B22	8XA5	45			X	
4A1J1	J	L185B22	8J5	109	X	X		
4A1J1	J	L185B22	8XA4	55			X	
4A1J1	K	L182B22	8TB7	B4	X	X	X	
4A1J1	K	W95D22	8TB4	C10	X	X	X	
4A1J1	L	L195AC22	8TB4	G3	X	X	X	
4A1J1	M	L199B22N	GND		X	X	X	
4A1J1	M	L157D22	SPLICE		X	X	X	
4A1J1	N	L183A22	22A5P2	20		X		
4A1J1	N	L183A22	8XK3	A2	X		X	
4A1J1	N	W40A22	8J5	18		X		
4A1J1	N	W40A22	8XA4	60	X		X	
4A1J1	P	L183D22	8J5	54	X	X		
4A1J1	P	L183D22	8XA4	54			X	
4A1J1	P	L29S22	8TB4	C4		X		
4A1J1	P	L29S22	8TB4	B4	X		X	
4A1J1	Q	L30C22	4A3J1	X		X		
4A1J1	Q	L30C22	8TB3	F4	X		X	
4A1J1	R	J2B22	1A1J1	L	X	X	X	
4A1J1	R	W43A22	8J5	20		X		
4A1J1	R	W43A22	8XA4	51	X		X	
4A1J1	S	J4B22	4A2J1	K	X	X	X	
4A1J1	S	W56B22	8Z2P1	D	X	X	X	
4A1J1	T	A38A22	22A2P1	S	X			
4A1J1	T	L255D22	22A2P1	S			X	
4A1J1	T	A380B22	19TB5	F6	X	X		
4A1J1	T	W55A18	8RT1P2		X	X		
4A1J1	U	L255A22	8XK3	C2	X		X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
4A1J1	U	L255A22	22A5P2	26		X		
4A1J1	V	L256B22N	GND		X	X	X	
4A1J1	X	TG283A22	19TB4	A11	X		X	
4A1J1	Y	TG284A22	19TB4	F11	X		X	
4A1J1	Z	TG286A22	8XA5	39	X		X	
4A1J2		L157E22* *	4A1P1	M	X	X	X	
4A1P1	A	L160D22	8R10	5	X	X	X	
4A1P1	A	TG332C22	20DS1	B	X		X	
4A1P1	B	L156D22	8R10	4	X	X	X	
4A1P1	B	W31B22	8DS7	A1	X		X	
4A1P1	B	W31B22	8DS18	A1		X		
4A1P1	C	L152A22	8R10	6	X	X	X	
4A1P1	C	W38B22	8DS7	B1	X		X	
4A1P1	D	L29D22	8R10	7	X	X	X	
4A1P1	D	W38B22	8DS18	B1		X		
4A1P1	D	W62A22	8S7	1	X	X	X	
4A1P1	E	L166D22	8R11	4	X	X	X	
4A1P1	E	W22D22	8DS10	2	X	X	X	
4A1P1	F	L162A22	8R11	6	X	X	X	
4A1P1	G	L176D22	8R12	4	X	X	X	
4A1P1	G	L29L22	8R14	7	X	X	X	
4A1P1	H	L172A22	8R12	6	X	X	X	
4A1P1	H	L189A22	8R14	4	X	X	X	
4A1P1	K	L182A22	8R13	6	X	X	X	
4A1P1	J	L185A22	8R13	4	X	X	X	
4A1P1	K	W95E22	8DS7	(C)3	X		X	
4A1P1	K	W95E22	8DS17	A3		X		
4A1P1	L	L195AD22	4A1A1J1		X	X	X	
4A1P1	M	L199A22N	GND		X	X	X	
4A1P1	N	L183B22	8R13	3	X	X	X	
4A1P1	N	W40B22	8DS17	A1		X		
4A1P1	N	W40B22	8DS7	C1	X		X	
4A1P1	P	L183C22	8R13	3	X	X	X	
4A1P1	P	L29T22	8S12	1	X	X	X	
4A1P1	Q	L30B22* *	8S12	3	X	X	X	
4A1P1	R	J2C22	1S39	2	X	X	X	
4A1P1	R	W43B22	8DS10	1	X	X	X	
4A1P1	S	J4A22	1S39	C	X	X	X	
4A1P1	S	W56A22	8S7	3	X	X	X	
4A1P1	T	L255C22	8R13	2	X	X	X	
4A1P1	T	W55B22	8S7	2	X	X	X	
4A1P1	U	L255B22	8R13	2	X	X	X	
4A1P1	V	L256A22	8P13	1	X	X	X	
4A1P1	X	TG283B22	20DS1	A	X		X	
4A1P1	X	TG286B22	20DS1	D			X	
4A1P1	Y	TG284B22	20DS1	C	X			
4A1P1	Z	TG286B22	20DS1	D	X			
4A2J1	A	Q7B20	SPLICE		X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
4A2J1	B	Q6D22	SPLICE		X	X	X	
4A2J1	K	J4B22	4A1J1	S	X	X	X	
4A2J1	C	Q1E22	1TB3	K1	X	X	X	
4A2J1	D	Q22B22	1J1	D	X	X	X	
4A2J1	E	Q23B22	1J1	B	X	X	X	
4A2J1	F	Q24B22	1A2J1	H	X	X	X	
4A2J1	G	L18B22	8DS6	6	X	X	X	
4A2J1	H	L16B22	8DS6	5	X	X	X	
4A2J1	J	K1B22	2A1J2	T	X	X	X	
4A2J1	L	J3B22	1J1	R	X	X	X	
4A2J1	M	K2B22	1K3	X1	X	X	X	
4A2J1	N	L195AA22	8TB4	C3	X	X		
4A2J1	P	L17B22	8DS6	4	X	X	X	
4A2J1	R	L15B22	8DS6	2	X	X	X	
4A2J1	S	TG182A20	19TB4	D5	X	X	X	
4A2J1	T	TG183B20	SPLICE		X	X	X	
4A2J1	U	L14C22	8DS6	7	X	X	X	
4A2J1	V	A76D20	1TB13	4			X	
4A2J1	V	A76D20	SPLICE		X	X		
4A2J1	W	A62B20	21K3P1	E	X	X	X	
4A2J1	X	L13B22	2A1J1	C	X	X	X	
4A2J1	Y	Q25B22	1A2J1	F	X	X	X	
4A2J1	Z	L52B22N	GND			X		
4A2J1	A	Q7A22	1S37		X	X	X	
4A2P1	B	Q6E22	1S37		X	X	X	
4A2P1	C	Q1F22	1S35	NO(1)	X	X	X	
4A2P1	D	Q22A22	1S35	C(1)	X	X	X	
4A2P1	E	Q23A22	1S35	C(2)	X	X	X	
4A2P1	F	Q24A22	1S35	NC(1)	X	X	X	
4A2P1	G	L18A22	8S4	E	X	X	X	
4A2P1	H	L16A22	8S4	D	X	X	X	
4A2P1	J	K1C22	1S36	6	X	X	X	
4A2P1	K	J4C22	1S36	3	X	X	X	
4A2P1	L	J3A22	1S36	1	X	X	X	
4A2P1	M	K2A22	1S36	4	X	X	X	
4A2P1	N	L195AB22	8J1108			X		
4A2P1	P	L17A22	8S4	F	X	X	X	
4A2P1	R	L15A22	8S5	1	X	X	X	
4A2P1	S	TG182B20	20S3	1	X	X	X	
4A2P1	T	TG183A20	20S3	2	X	X	X	
4A2P1	U	L14B22	8S5	3	X	X	X	
4A2P1	V	A76E20	21S3	1		X	X	
4A2P1	W	A62A20	21S3	2		X	X	
4A2P1	X	L13C22	8S5	2	X	X	X	
4A2P1	Y	Q25A22	1S35	NC(2)	X	X	X	
4A2P1	Z	L52A22N	GND			X		
4A3J1	B	A343A22	22A5P1	119		X		
4A3J1	B	A343B22	SPLICE		X			
4A3J1	B	A385E20	SPLICE				X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES	PIN		REF DES.	PIN	E	M	P	
4A3J1	C	A148D22	19TB4	D16	X	X		
4A3J1	C	A430A20	19XK81	A2			X	
4A3J1	E	A343A22	SPLICE		X			
4A3J1	E	A385D20	SPLICE				X	
4A3J1	F	A180B22	SPLICE		X	X		
4A3J1	F	A399A20	19XK81	B2			X	
4A3J1	M	C6A20	1A1J1	E	X	X	X	
4A3J1	N	A164A20	19XK81	C3			X	
4A3J1	N	A337A22	19XK106	A2	X			
4A3J1	N	A337A22	SPLICE			X		
4A3J1	P	C5B20	2A1J2	G	X	X	X	
4A3J1	R	A502A20	22A5P2	Z5		X		
4A3J1	R	A502A20	19XK80	C3	X		X	
4A3J1	S	A288A20	19TB4	F4		X		
4A3J1	S	A288A22	19TB4	H17	X			
4A3J1	S	A976C20	19TB3	9			X	
4A3J1	T	A515A20	22A2P1	E	X			
4A3J1	T	A515A20	19TB4	C11		X		
4A3J1	T	A515A20	21A1P1	E			X	
4A3J1	W	L197A22	8TB7	F2	X	X	X	
4A3J1	X	L29H22	8TB3	G4	X		X	
4A3J1	X	L30C22	4A1J1	Q		X		
4CB1		X12B22	3A1P1	T			X	
4CB1		X12C22	19CB1				X	
4CB1		X27C22	19CB4		X	X		
4CB1		F1A22	3A1P1	J	X	X	X	
4CB1		F1B22	3A1P1	K	X	X	X	
4CB1		X27B22	3A1P1	V	X	X		
4M1P1	A	F11A22N	GND		X	X	X	
4M1P1	A	F6B22(WHT) (SHLD)	1TB10	D1	X		X	
4M1P1	A	F6B22(WHT)	1TB10	E2		X		
4M1P1	B	F1D22	3A1J1	K		X	X	
4M1P1	B	F6B22(ORN) (SHLD)	1TB10	F1	X		X	
4M1P1	B	F6B22(BLU)	1TB10	K1		X		
4M1P1	C	F22A22N	GND			X		
4M1P1	C	F6B22(BLU) (SHLD)	1TB10	B1	X			
4M1P1	C	F6B22(BLU) (SHLD)	1TB10	B1			X	
4M1P1	C	F6B22(ORN)	1TB10	E1		X		
4M1P1	D	F14A22N	GND			X	X	
4M1P1	D	F3B22(WHT) (SHLD)	1TB10	D2	X		X	
4M1P1	D	F3B22(WHT)	1TB10	K3		X		
4M1P1	E	F7A22	4M1P1	J		X	X	
4M1P1	E	F3B22(BLU)	1TB10	E3		X		
4M1P1	E	F3B22(ORN)	1TB10	F2	X		X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
4M1P1	F	(SHLD)	4M1P1	Y		X	X	
4M1P1	<u>F</u>	F15A22	1TB10	B2	X		X	
		F3B22(BLU)						
4M1P1	<u>F</u>	(SHLD)	1TB10	K2		X		
4M1P1	G	F3B22(ORN)	4M1P1	H		X		
4M1P1	<u>G</u>	F8A22	8TB3	G2	X	X	X	
4M1P1	<u>H</u>	L170S22	4M1P1	G	X			
4M1P1	<u>H</u>	F8A22	GND		X	X	X	
4M1P1	J	F11B22N	4M1P1	E		X	X	
4M1P1	L	F7A22	8TB6	D3	X	X	X	
4M1P1	P	L167C22 * *	1TB10	F4	X	X	X	
4M1P1	R	F20A22	1TB10	B4	X	X	X	
4M1P1	S	F21B22	GND			X	X	
4M1P1	X	F26A22N	2A1J2	<u>H</u>	X	X	X	
4M1P1	Y	F13D22	4M1P1	<u>F</u>		X	X	
4M1P1	Z	F15A22	4Z1P1	J	X	X	X	
4Z1P1	A	F9A22	GND		X	X	X	
4Z1P1	B	F10B22N	3A1J1	J	X	X	X	
4Z1P1	D	F1C22	1TB10	F3		X		
4Z1P1	D	F3A22(WHT)	1TB10	K2	X		X	
		F3A22(WHT)						
4Z1P1	E	(SHLD)	1TB10	A3		X		
4Z1P1	E	F3A22(BLU)	1TB10	H2	X		X	
		F3A22(ORN)						
4Z1P1	F	(SHLD)	1TB10	A2	X		X	
		F3A22(BLU)						
4Z1P1	F	(SHLD)	1TB10	F2		X		
4Z1P1	G	F3A22(ORN)	GND		X	X	X	
4Z1P1	H	F10E22N	1TB10	F1		X		
4Z1P1	H	F6A22(BLU)	1TB10	H1	X		X	
		F6A22(ORN)						
4Z1P1	<u>J</u>	(SHLD)	4M1P1	Z	X	X	X	
4Z1P1	<u>K</u>	F9A22	GND		X	X	X	
4Z1P1	L	F10C22N	GND			X	X	
4Z1P1	P	F10G22N	1TB10	A1	X		X	
		F6A22(BLU)						
4Z1P1	P	(SHLD)	1TB10	A1		X		
4Z1P1	R	F6A22(ORN)	1TB10	A2		X		
4Z1P1	R	F6A22(WHT)	1TB10	J1	X		X	
		F6A22(WHT)						
4Z1P1	T	(SHLD)	GND		X	X	X	
4Z1P1	V	F10D22N	GND		X	X	X	
4Z1P1	Y	F10A22N	GND			X	X	
4Z1P1	B	F10F22N	2A1J2	<u>D</u>	X	X	X	
4Z2P1	A	F13B22	GND		X	X	X	
4Z2P1	C	F23A22N	1TB10	G4	X	X	X	
4Z2P1	D	F20B22	1TB10	C4	X	X	X	
		F21A22						

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
5A1A1		L225D22	5A1J1	M			X	
5A1A1	J1	L225D22	5A1J1	M	X	X		
5A1A1J1	5	L226A22	5A1J1	S			X	
5A1A1J	7	L38D22	5A1J1	N			X	
5A1A2	J1	L225F22	5A1J1	H	X	X		
5A1A3	J1	L236D22	5A1J1	G	X		X	
5A1A3	J1	L236F22	5A1J1	G		X		
5A1A1J1	3	L222B22	5A1J1	B			X	
5A1A1J1	3	L22C22	5A1J1	A			X	
5A1A1J1	6	L220A22	5A1J1	P			X	
5A1J1	A	L222C22	5A1A1	3			X	
5A1J1	<u>A</u>	A1017B22(BLU)	SPLICE			X		
5A1J1	<u>B</u>	L222B22	5A1A1	3			X	
5A1J1	<u>B</u>	TG200E22	20S1		X		X	
5A1J1	<u>B</u>	TG200E22	20S1	2		X		
5A1J1	<u>C</u>	TG201E22	20S1	1		X		
5A1J1	<u>C</u>	TG201F22	20S1		X		X	
5A1J1	<u>D</u>	A1033D22	16S2	1		X		
5A1J1	<u>E</u>	A1016B22	16S2	2		X		
5A1J1	<u>F</u>	L224A22N	GND		X	X	X	
5A1J1	<u>F</u>	A1032B22	16S2	3		X		
5A1J1	<u>G</u>	L236F22	5A1A3	J1		X		
5A1J1	G	L236D22	5A1A3	J1	X		X	
5A1J1	J	L225F22 * *	5A1A2	J1	X	X		
5A1J1	<u>H</u>	TG212B22	20S1	4		X		
5A1J1	<u>J</u>	A48A20	21S2	1	X			
5A1J1	<u>J</u>	TG198A22	20S1	6		X		
5A1J1	K	W39B22	8DS11	A1	X	X	X	
5A1J1	L	W95C22	8DS11	(A)3	X	X	X	
5A2J1	M	C7B20	1A1J1	V	X	X	X	
5A1J1	M	L225D22	5A1A1J1		X	X	X	
5A1J1	N	L38D22	5A1A1	7			X	
5A1J1	P	A1018B22	16R1	2		X		
5A1J1	P	L220A22	5A1A1	6			X	
5A1J1	R	L223A22	5A1J1	4			X	
5A1J1	S	L226A22	5A1A1	5			X	
5A1J1	T	C2F22	1S23	2	X	X	X	
5A1J1	U	C3D22	1S23	3	X	X	X	
5A1J1	V	C4G22	1S23	1	X	X	X	
5A1J1	W	A1017B22(WHT)	16S1	1		X		
5A1J1	X	A271C20	21S1	1	X	X	X	
5A1J1	Y	A516A20	21S2	4	X	X	X	
5A1J1	Z	A272A20	21S2	3	X	X	X	
5A1J1	4	L223A22	5A1J1	R			X	
5A1P1	A	L222D22	8XA6	58			X	
5A1P1	<u>A</u>	A1017A22(BLU)	20A1J53	<u>V</u>		X		
5A1P1	<u>B</u>	TG200G22	SPLICE		X			
5A1P1	B	L222A22	8XK1	A3			X	
5A1P1	<u>B</u>	TG200E22	20S1		X			

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
5A1P1	B	TG200D22	SPLICE		X			
5A1P1	B	TG201E22	SPLICE				X	
5A1P1	B	TG200D22	19TB4	H10		X		
5A1P1	C	TG201D22	SPLICE			X		
5A1P1	C	TG201E22	SPLICE		X			
5A1P1	D	A1033C22	SPLICE			X		
5A1P1	E	A1016A22	21A1J53	P		X		
5A1P1	F	A1032A22	16A1P2	15		X		
5A1P1	H	L225E22	8TB5	E6	X	X	X	
5A1P1	H	TG212A22	SPLICE			X		
5A1P1	M	L225C22	8TB5	D6	X		X	
5A1P1	F	L224B22N	GND		X	X	X	
5A1P1	J	TG198B22	22A4P15	K		X		
5A1P1	K	W39A22	8J5	1		X		
5A1P1	K	W39A22	8XA6	45	X		X	
5A1P1	L	W95B22	8TB4	B10	X	X	X	
5A1P1	N	L38C22	8TB5	A5			X	
5A1P1	R	L223B22	8XA6	58			X	
5A1P1	T	C2C22	SPLICE		X	X	X	
5A1P1	J	A48B20	1TB13	3	X	X		
5A1P1	P	A1018A22	20A1J53	H		X		
5A1P1	P	L220B22	8TB8	H1			X	
5A1P1	U	C3C22	SPLICE		X	X	X	
5A1P1	V	C4C22	SPLICE		X	X	X	
5A1P1	W	A1017A22(WHT)	20A1J53	D		X		
5A1P1	X	A271B20	1TB13	6			X	
5A1P1	X	A271B20	3A1J1	HH	X	X		
5A1P1	Y	A516B20	21XK2	B2	X	X	X	
5A1P1	Z	A272B20	SPLICE		X	X	X	
5A1P1	G	L236C22	8TB5	D5	X	X	X	
5A1P1	S	L226B22N	GND				X	
5A2J1	B	A245A22	22A5P2	40		X		
5A2J1	B	A547B22	SPLICE				X	
5A2J1	B	A410A22	SPLICE		X			
5A2J1	C	A148B22	19TB4	B16	X	X		
5A2J1	C	A431B20	SPLICE				X	
5A2J1	E	A410B22	SPLICE		X			
5A2J1	E	A547C22	SPLICE				X	
5A2J1	F	A180A22	SPLICE		X	X		
5A2J1	F	A369B20	SPLICE				X	
5A2J1	N	A182A22	22A5P1	37		X		
5A2J1	N	A182A22	19XK80	A1	X			
5A2J1	N	A546B20	19TB3	8			X	
5A2J1	P	C8A20	1TB10	F3	X		X	
5A2J1	W	L246C22	8TB8	G4	X	X	X	
5A2J1	P	C8A20	1TB10	F5		X		
5A2J1	R	A501A20	19XK80	C1	X		X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
5A2J1	R	A501A20	19TB4	H11		X		
5A2J1	S	A155A20	19XK84	A1		X		
5A2J1	S	A165A20	19XK84	A1			X	
5A2J1	S	A181A22	19XK84	A1	X			
5A2J1	S	A181A22	22A5P1	183		X		
5A2J1	T	A505A20	22A3P1	S	X		X	
5A2J1	X	L245A22	22A5P2	49		X		
5A2J1	X	L245A22 * *	19XK90	A1			X	
5A2J1	X	L245A22	19XK80	E1	X			
5A2P1	A	37	19S1				X	
5A2P1	B	38	19S1				X	
5A2P1	C	29	19S1				X	
5A2P1	D	39	19S1				X	
5A2P1	E	30	19S1				X	
5A2P1	F	31	19S1				X	
5A2P1	N	32	19S2				X	
5A2P1	S	33	19S2				X	
5A2P1	T	A530A20	21XK10	B1		X		
5A2P1	W	34	8S10 NVG		X			
5A2P1	X	35	8S10 NORM		X			
5CB1		F2A22	2A1P1	C	X	X	X	
5M1P1	A	F2B22	2A1J1	C	X	X	X	
5M1P1	B	F12A22N	GND		X	X	X	
5M1P1	D	L230G22	8TB5	G1	X	X	X	
5M1P1	E	L250F22N	8TB5	G3	X	X	X	
5M1P1	F	F12B22N	GND		X	X	X	
8A2P1	A	W141A22	20A1J53	I		X		
8A2P1	A	W72A22	SPLICE		X	X	X	
8A2P1	B	W78A22	SPLICE		X	X	X	
8A2P1	C	W83A221	8TB4	B5	X	X	X	
8A2P1	C	W104A22	8J5	15		X		
8A2P1	C	W104A22	8XA5	51	X		X	
8A2P1	D	W70A20	1J2	P	X	X	X	
8A2P1	D	W105A22	8XA5	17	X		X	
8A2P1	D	W105A22	8J5	8		X		
8A2P1	E	W28A22	8S6	NC		X		
8A2P1	F	W80A22	SPLICE		X	X	X	
8A2P1	F	W76A22	SPLICE		X		X	
8A2P1	F	W76A22	9TB1	J3		X		
8A2P1	G	W71A22	SPLICE		X	X	X	
8A2P1	G	W77A22	SPLICE		X	X	X	
8A2P1	H	A101B22	19P250	BB	X	X		
8A2P1	I	W67A22	8TB4	D10	X	X	X	
8A2P1	J	W10A20	8TB4	D8	X	X	X	
8A2P1	J	L195T22	8TB4	B2	X	X	X	
8A2P1	K	W8A20	8TB4	J6	X	X	X	
8A2P1	K	L254A22	8XK3	C3	X		X	
8A2P1	K	L254A22	22A5P2	27		X		
8A2P1	L	W9A20	8TB4	D6	X	X	X	
8A2P1	M	W7A20	8TB4	J9	X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8A2P1	M	W30A22N	GND		X	X	X	
8A2P1	N	W87A22	1TB4	1	X	X	X	
8A2P1	N	W1C22	8TB4	G4	X	X	X	
8A2P1	P	W74A22	SPLICE		X	X	X	
8A2P1	P	W95A22	8TB4	A10	X	X	X	
8A2P1	Q	W4A22	8TB7	F3	X	X	X	
8A2P1	R	W37A22	SPLICE		X	X	X	
8A2P1	R	W2A22	22A5P2	29		X		
8A2P1	R	W2A22	8XK3	D2	X		X	
8A2P1	S	W88A22	1TB4	3	X	X	X	
8A2P1	S	W41C22	8TB4	J8	X	X	X	
8A2P1	T	W91A22	SPLICE		X	X	X	
8A2P1	T	W21A22	8TB4	D9	X	X	X	
8A2P1	U	W111A22	3XK8	B3			X	
8A2P1	U	W133B22	SPLICE		X	X		
8A2P1	U	W133C22	2XK15	D3	X	X		
8A2P1	U	W64A22N	GND		X	X	X	
8A2P1	V	W65A22N	GND		X	X	X	
8A2P1	W	W28A22	8S6	NC			X	
8A2P1	W	W13B22	8TB4	G11	X	X		
8A2P1	W	W66A22N	GND		X	X	X	
8A2P1	X	W102A22	8J5	16		X		
8A2P1	X	W102A22	8XA5	60	X		X	
8A2P1	Y	W112A22	22A5P1	13		X		
8A2P1	Y	W28A22	8S6	NC	X			
8A2P1	Z	W113A22	22A5P1	5		X	X	
8A3P1	A	W72B22	SPLICE		X	X	X	
8A3P1	A	W130A22	8XA6	63	X		X	
8A3P1	A	W130A22	8J5	2		X		
8A3P1	C	W71B22	SPLICE		X	X	X	
8A3P1	D	W132A22	8TB4	F11	X	X		
8A3P1	F	W76B22	SPLICE		X		X	
8A3P1	F	W76B22	9TB1	K3		X		
8A3P1	G	W91B22	SPLICE				X	
8A3P1	H	W103A22	8TB7	K1	X	X	X	
8A3P1	K	W133A22	SPLICE		X	X		
8A3P1	J	W37B22	SPLICE		X	X	X	
8A3P1	L	W6A20	8TB4	A7	X	X	X	
8A3P1	M	W77B22	SPLICE		X	X	X	
8A3P1	N	W78B22	SPLICE		X	X	X	
8A3P1	P	W80B22	SPLICE		X	X	X	
8A3P1	Q	W4A22	8TB7	F3	X	X	X	
8A3P1	R	W74B22	SPLICE		X	X	X	
8A3P1	S	W91B22	SPLICE		X	X		
8A3P1	S	W91C22	2XK14	D2	X	X		
8A3P1	U	W67B22	8TB4	E10	X	X	X	
8A3P1	V	L257A22	8J5		X	X	X	
8A3P1	W	W118A22N	GND		X	X	X	
8A3P1	X	W19C22	8TB5	G7		X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
8A3P1	X	W19C22	8TB5	G6	X		X	
8A3P1	Y	L230F22	8TB5	F1	X		X	
8A3P1	Y	L236K22	8TB5	K7		X		
8A3P1	Z	W99A22	22A5P2	6		X		
8A3P1	Z	W99A22	8XK1	B2	X		X	
8CB1		L1A22	2A1P1	A	X	X	X	
8CB10		W18A22	2A1P1	V	X	X	X	
8CB11		L47A22	SPLICE		X		X	
8CB11		L47A22	8S8	1		X		
8CB2		L10A22	2A1P1	B	X	X	X	
8CB3		L13A22	2A1P1	C	X	X	X	
8CB4		L28A12	2TB2	6	X	X		
8CB4		L28A12	2TB2	G			X	
8CB5		L38A22	2A1P1	J	X	X	X	
8CB6		L29A22	2A1P1	H	X	X	X	
8CB7		W1A22	2A1P1	N	X	X	X	
8CB7		W19A22	2A1P1	P	X	X	X	
8CB7		W32A22	2A1P1	R	X	X	X	
8CB8		L45C22	2A1P1	L	X	X		
8CB8	5	L45A22	2A1P1	K	X	X		
8CB8	5	L46A22	2A1P1	M	X	X	X	
8CB9		W45A22	2A1P1	W	X	X	X	
8DS1		L7E22	1TB3	H9	X			
8DS1	R	L7F22	21P1	A	X	X	X	
8DS10	1	W43B22	4A1P1	<u>R</u>	X	X	X	
8DS10	2	W22C22	8DS7	(C)2	X		X	
8DS10	2	W22C22	8DS17	(A)2		X		
8DS10	2	W22D22	4A1P1	<u>E</u>	X	X	X	
8DS11	A1	W39B22	5A1J1	<u>K</u>	X	X	X	
8DS11	(A)2	W94A22N	GND		X	X	X	
8DS11	(A)3	W95C22	5A1J1	L	X	X	X	
8DS13		L45B22	2TB2	7			X	
8DS13		L61A22N	GND		X	X	X	
8DS14		L45D22	2A1J1	L	X	X	X	
8DS14		L62A22N	GND		X	X	X	
8DS15		L63A22N	GND		X	X	X	
8DS16	W	L48A22	8S8	2	X		X	
8DS17	(A)1	W40B22	4A1P1	<u>N</u>		X		
8DS17	(A)2	W22B22	8DS18	<u>B</u> 2		X		
8DS17	(A)2	W22C22	8DS10	2		X		
8DS17	(A)3	W95E22	4A1P1	K		X		
8DS17	(A)3	W95F22	8DS18	(B)3		X		
8DS18	(B)1	W38B22	4A1P1	<u>C</u>		X		
3DS18	(A)1	W31B22	4A1P1	<u>B</u>		X		
3DS18	(A)2	W22A22	8DS18	(B)2		X		
3DS18	(A)3	W95G22	8DS18	(B)3		X		
8DS18	(B)2	W22A22	8DS18	(A)2		X		
3DS18	(B)2	W22B22	8DS17	(A)2		X		
8DS18	(B)3	W95F22	8DS17	(A)3		X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
8DS18	(B)3	W95G22	8DS18	(A)3		X		
8DS2	G	L7D22	21P2	A	X	X	X	
8DS3		L8E22(BLU)	8TB1	2	X	X	X	
8DS3		L8E22(WHT)	8TB1	1	X	X	X	
8DS4		L8D22(WHT)	8TB1	1	X	X	X	
8DS4		L8D22(BLU)	8TB1	2	X	X	X	
8DS5P1	A	L11E22	SPLICE		X	X	X	
8DS5P1	B	L11D22	SPLICE		X	X	X	
8DS5P1	C	L12A22	8P3	A	X	X	X	
8DS6	2	L15B22	4A2J1	R	X	X	X	
8DS6	1	L27A12N	GND		X	X	X	
8DS6	3	L28A12	2TB2	G			X	
8DS6	3	L28B12	2TB2	6	X	X		
8DS6	4	L17B22	4A2J1	P	X	X	X	
8DS6	5	L16B22	4A2J1	H	X	X	X	
8DS6	6	L18B22	4A2J1	G	X	X	X	
8DS6	7	L14C22	4A2J1	U	X	X	X	
8DS7	A1	W31B22	4A1P1	B	X		X	
8DS7	A2	W22A22	8DS7	B2	X		X	
8DS7	(A)3	W95G22	8DS7	(B)3	X		X	
8DS7	B1	W38B22	4A1P1	C	X		X	
8DS7	B2	W22B22	8DS7	(C)2	X		X	
8DS7	B2	W22A22	8DS7	A2	X		X	
8DS7	(B)3	W95F22	8DS7	(C)3	X		X	
8DS7	(B)3	W95G22	8DS7	(A)3	X		X	
8DS7	C1	W40B22	4A1P1	N	X		X	
8DS7	(C)2	W22B22	8DS7	B2	X		X	
8DS7	(C)2	W22C22	8DS10	2	X		X	
8DS7	(C)3	W95E22	4A1P1	K	X		X	
8DS7	(C)3	W95F22	8DS7	(B)3	X		X	
8J101		L195L22	2A2P1	D		X		
8J102		A212C22	8J103		X	X		
8J102		A212D22 * *	19M1	3	X	X		
8J102		L225H22	8J103				X	
8J103		A212B22	22A3J1	Z	X	X		
8J103		A212C22	8J102		X	X		
8J103		L225G22	2A3J1	Z			X	
8J103		L225H22	8J102				X	
8J104		L195C22	22A2J1	T			X	
8J104		A379B22	22A2J1	T	X	X		
8J105		L195X22	10A1P1	A		X		
8J106		L236E22	1A2P1	J	X	X		
8J107		L195J22	1A1P1	B		X		
8J109		L195R22	22A1J1	M		X		
8J110		L195E22	21A1J1	E			X	
8J1108		L195AB22	4A2P1	N		X		
8J111		L195Z22	2A1P1	Q		X		
8J3	A	L12B22N	GND	X	X	X		
8J3	B	L11B22	10A1J1	K	X	X	X	
8J5	1	W39A22	5A1P1	K	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8J5	103	L180A22N	GND		X	X		
8J5	104	W96C22	8TB8	J3	X	X		
8J5	106	L182F22	8Q6	C	X	X		
8J5	107	W50A22	8Q4	B	X	X		
8J5	108	W49C22	8TB6	D4	X	X		
8J5	109	L185B22	4A1J1	J	X	X		
8J5	110	L195A22	8TB4	A1	X	X		
8J5	110	L192E22	21A1J1	E			X	
8J5	111	L234D22	1A2J1	I	X	X		
8J5	112	L229A22	22A5P2	10		X		
8J5	112	L229A22	8XK1	D1	X			
8J5	113	L249A22N	GND		X	X		
8J5	116	W59A22N	GND		X	X		
8J5	117	W97A22	8Q3	B	X	X		
8J5	118	L177A22	22A5P1	38		X		
8J5	118	L177A22	8XK4	B1	X			
8J5	125	L178A22	22A5P1	41		X		
8J5	125	L178A22	8XK4	C1	X			
8J5	126	L179A22	22A5P1	44		X		
8J5	128	L188C22	8TB6	C3	X	X		
8J5	129	L188B22	8TB6	B3	X	X		
8J5	130	L187C22	8TB6	H3	X	X		
8J5	131	L187B22	8TB6	G3		X		
8J5	132	L184B22	8Q5	B	X	X		
8J5	137	L187B22	8TB6	G3	X			
8J5	15	W104A22	8A2P1	C	X	X		
8J5	16	W102A22	8A2P1	X	X	X		
8J5	18	W40A22	4A1J1	N	X	X		
8J5	19	W38A22	4A1J1	C	X	X		
8J5	2	W130A22	8A3P1	A	X	X		
8J5	20	W43A22	4A1J1	R	X	X		
8J5	21	W31A22	4A1J1	B	X	X		
8J5	23	L247A22N	GND		X	X		
8J5	24	L246E22	8TB8	J4	X	X		
8J5	25	L258A22	1A2J1	F	X	X		
8J5	27	L190A22N	GND		X	X		
8J5	28	L197H22	8TB7	B2	X	X		
8J5	29	W101C22	8TB7	J1	X	X		
8J5	3	L257A22	8A3P1	V	X	X	X	
8J5	33	L197B22	8TB7	C2	X	X		
8J5	34	APX72-802C20			X			
8J5	36	L197F22	8TB7	K2	X	X		
8J5	37	W21B22	8TB4	C9	X	X		
8J5	38	W41D22	8TB4	H8	X	X		
8J5	39	L197E22	8TB7	J2	X	X		
8J5	40	L161A22N	GND		X			
8J5	40	L181A22N	GND			X		
8J5	41	W5A22N	GND		X	X		
8J5	42	L253A22	8TB8	A4	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
8J5	43	W4C22	8TB7	H3	X	X		
8J5	46	APX72-867A22			X			
8J5	47	L197K22	8TB7	E2	X	X		
8J5	51	L196A22	8TB7	A1	X	X		
8J5	52	L155A22	8PS2P1	C	X	X		
8J5	54	L183D22	4A1J1	P	X	X		
8J5	56	W4B22	8TB7	G3	X	X		
8J5	57	L197G22	8TB7	A2	X	X		
8J5	59	L248A22	8XK1	E1	X			
8J5	58	W46B22	8TB6	G1	X	X		
8J5	59	L248A22	22A5P2	13		X		
8J5	6	L189B22	4A1J1	H	X	X		
8J5	60	L22OE22	8Q1	C	X	X		
8J5	61	L233E22	8Q2	C	X	X		
8J5	63	L165A22	8PS3P1	C	X	X		
8J5	64	L157A22	8TB6	F4	X	X		
8J5	65	L167A22	8TB6	J3	X	X		
8J5	67	L169A22	8TB6	A4	X	X		
8J5	68	L211A22 * *	1M5P1	Y	X	X		
8J5	70	L204A22 * *	1M1P1	A	X	X		
8J5	71	L203A22 * *	1M2P1	E	X	X		
8J5	72	L202A22 * *	1M3P1	G	X	X		
8J5	73	L168B22	8TB6	G2	X	X		
8J5	74	L175A22	8PS4P1	C	X	X		
8J5	75	L227C22	8TB8	B1	X	X		
8J5	76	L221A22	8Q1	B	X	X		
8J5	77	L223B22	1A2J1	Q	X	X		
8J5	8	W105A22	8A2P1	D	X	X		
8J5	80	L158A22 * *	1M18P1	A	X	X		
8J5	81	L159A22	1M19P1	C	X			
8J5	81	L159A22	8TB3	C4	X	X		
8J5	82	L168A22	8TB6	F2	X	X		
8J5	85	L157B22	8TB6	G4	X	X		
8J5	86	L167B22	8TB6	K3	X	X		
8J5	88	W60A22N	GND		X	X		
8J5	89	L208A22 * *	1M8P1	A	X	X		
8J5	90	L207A22 * *	1M6P1	E	X	X		
8J5	91	L206A22	8TB7	D4	X	X		
8J5	92	L205A22 * *	1M7P1	E		X		
8J5	93	L222D22	1A2J1	B	X	X		
8J5	94	L232A22	8Q2	B	X	X		
8J5	95	L205A22 * *	1M7P1	E	X			
8J5	95	L235B22	1A2J1	A	X	X		
8J5	96	L20A22	8TB3	C5		X		
8J5	97	L169B22	8TB6	B4	X	X		
8J5	98	L270A22	8TB4	B12		X		
8PS1P1	A	L227D22	8TB8	C1	X	X		
8PS1P1	B	L231A22N	GND		X			
8PS1P1	D	L228E22	8TB8	E2	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8PS2P1	A	L152B22	4A1J1	C	X	X	X	
8PS2P1	B	L154A22N	GND		X	X		
8PS2P1	C	L155A22	8J5	52	X	X		
8PS2P1	C	L155A22	8XA5	36			X	
8PS2P1	D	L156A22	8TB6	H2	X	X	X	
8PS3P1	A	L162B22	4A1J1	F	X	X	X	
8PS3P1	B	L164A22N	GND		X	X	X	
8PS3P1	C	L165A22	8J5	63	X	X		
8PS3P1	C	L165A22	8XA5	70		X		
8PS3P1	D	L166A22	8TB6	A1	X	X	X	
8PS4P1	D	L176A22	8TB6	J1	X	X	X	
8PS4P1	A	L172B22	4A1J1	H	X	X	X	
8PS4P1	B	L174A22N	GND		X	X	X	
8PS4P1	C	L175A22	8J5	74	X	X		
8PS4P1	C	L175A22	8XA4	70			X	
8P3	A	L12A22	8DS5P1	C	X	X	X	
8P3	B	L11C22	SPLICE		X	X	X	
8P5	1	L59A22	8XA6	45		X		
8P5	1	L594A22	8XA6	45	X	X		
8P5	103	L575A22	8XA5	48	X	X		
8P5	104	L576A22	8XA5	57	X	X		
8P5	106	L530A22	8XA4	53	X	X		
8P5	107	L529A22	8XA4	59	X	X		
8P5	108	L528A22	8XA4	57	X	X		
8P5	109	L527A22	8XA4	55	X	X		
8P5	110	L526A22	8XA4	110	X	X		
8P5	111	L612A22	8XA6	54	X	X		
8P5	112	L613A122	8XA6	13	X	X		
8P5	113	L614A22	8XA6	48	X	X		
8P5	116	L577A22	8XA5	58	X	X		
8P5	117	L578A22	8XA5	59	X	X		
8P5	118	L579A22	8XA5	13	X	X		
8P5	125	L580A22	8XA5	47	X	X		
8P5	126	L581A22	8XA4	126		X		
8P5	126	L581A22	8XA5	44	X			
8P5	128	L535A22	8XA4	42	X	X		
8P5	129	L534A22	8XA4	44	X	X		
8P5	130	L533A22	8XA4	47	X	X		
8P5	131	L532A22	8XA4	13	X	X		
8P5	132	L531A22	8XA4	21	X	X		
8P5	15	L550A22	8XA5	51	X	X		
8P5	16	L551A22	8XA5	60	X	X		
8P5	18	L505A22	8XA4	60	X	X		
8P5	19	L504A22	8XA4	63	X	X		
8P5	2	L595A22	8XA6	63	X	X		
8P5	20	L503A22	8XA4	51	X	X		
8P5	21	L502A22	8XA4	43	X	X		
8P5	22	L501A22	8XA4	45		X		
8P5	23	L597A22	8XA6	62	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8P5	24	L598A22	8XA6	61	X	X		
8P5	25	L599A22	8XA6	29	X	X		
8P5	27	L552A22	8XA5	62	X	X		
8P5	28	L553A22	8XA5	61	X	X		
8P5	29	L554A22	8XA5	29	X	X		
8P5	3	L596A22	8XA6	60	X	X		
8P5	33	L555A22	8XA5	50	X	X		
8P5	34	L556A22	8XA5	52	X			
8P5	36	L510A22	8XA4	50	X	X		
8P5	37	L509A22	8XA4	25	X	X		
8P5	38	L508A22	8XA4	29	X	X		
8P5	39	L507A22	8XA4	61	X	X		
8P5	4	L615A22	8XA6	43		X		
8P5	40	L506A22	8XA4	62	X	X		
8P5	41	L600A22	8XA6	25	X	X		
8P5	42	L601A22	8XA6	9	X	X		
8P5	43	L602A22	8XA6	7	X	X		
8P5	46	L557A22	8XA5	49	X			
8P5	47	L558A22	8XA5	9	X	X		
8P5	5	L616A22	8XA6	46		X		
8P5	51	L560A22	8XA5	7	X	X		
8P5	52	L561A22	8XA5	36	X	X		
8P5	54	L515A22	8XA4	54	X	X		
8P5	55	L514A22	8XA4	7		X		
8P5	56	L513A22	8XA4	46	X	X		
8P5	57	L512A22	8XA4	9	X	X		
8P5	58	L511A22	8XA4	52	X	X		
8P5	59	L603A22	8XA6	70	X	X		
8P5	6	L547A22	8XA5	45	X	X		
8P5	60	L604A22	8XA6	57	X	X		
8P5	61	L605A22	8XA6	53	X	X		
8P5	63	L562A22	8XA5	70	X	X		
8P5	64	L563A22	8XA5	33	X	X		
8P5	65	L564A22	8XA5	67	X	X		
8P5	67	L565A22	8XA5	66	X	X		
8P5	68	L566A22	8XA5	31	X	X		
8P5	70	L520A22	8XA4	67	X	X		
8P5	71	L519A22	8XA4	33	X	X		
8P5	72	L518A22	8XA4	68	X	X		
8P5	73	L517A22	8XA4	69	X	X		
8P5	74	L516A22	8XA4	70	X	X		
8P5	75	L606A22	8XA6	31	X	X		
8P5	76	L607A22	8XA6	59	X	X		
8P5	77	L608A22	8XA6	58	X	X		
8P5	8	L549A22	8XA5	17	X	X		
8P5	80	L567A22	8XA5	65	X	X		
8P5	81	L568A22	8XA5	64	X	X		
8P5	82	L569A22	8XA5	1	X	X		
8P5	85	L570A22	8XA5	37	X	X		
8P5	86	L571A22	8XA5	3	X	X		
8P5	88	L525A22	8XA4	58	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8P5	88	W60A22N	GND		X			
8P5	89	L524A22	8XA4	64	X	X		
8P5	90	L523A22	8XA4	65	X	X		
8P5	91	L522A22	8XA4	31	X	X		
8P5	92	L521A22	8XA4	66	X	X		
8P5	93	L609A22	8XA6	56	X	X		
8P5	94	L610A22	8XA6	21	X	X		
8P5	95	L611A22	8XA6	55	X	X		
8P5	96	L617A22	8XA4	5		X		
8P5	97	L572A22	8XA5	38	X	X		
8P5	98	L578SA22	8XA4	39		X		
8P5	99	L574A22	8XA4	40		X		
8Q1	B	L221A22	8J5	76	X	X		
8Q1	B	L221A22	8XA6	59			X	
8Q1	C	L220D22	8TB8	F1			X	
8Q1	C	L220D22	8TB8	G1	X			
8Q1	C	L220D22	8TB8	K5		X		
8Q1	C	L220E22	8XA6	57			X	
8Q1	C	L220E22	8J5	60	X	X		
8Q1	E	L225A22	8TB8	F5	X	X	X	
8Q2	B	L232A22	8J5	94	X	X		
8Q2	B	L232A22	8XA6	21			X	
8Q2	C	L233C22	8TB8	A2	X		X	
8Q2	C	L233C22	8TB8	C2		X		
8Q2	C	L233E22	8J5	61	X	X		
8Q2	C	L233E22	8XA6	53			X	
8Q2	E	L236A22	8TB8	A5	X	X	X	
8Q3	B	W97A22	8XA5	59	X		X	
8Q3	B	W97A22	8J5	117		X		
8Q3	C	W96B22	8XA8	E3	X	X	X	
8Q3	E	W98A22	22A5P2	4		X		
8Q3	E	W98A22	8XK1	B1	X		X	
8Q4	B	W50A22	8XA4	59	X		X	
8Q4	B	W50A22	8J5	107		X		
8Q4	C	W49B22	8TB8	K4	X	X	X	
8Q4	C	W51B22	8TB6	F5		X		
8Q4	E	W51A22	22A5P2	28		X		
8Q4	E	W51A22	8XK3	D1	X		X	
8Q4	E	W51B22	8TB6	F5	X		X	
8Q5	B	L184A22	8Q6	B	X	X	X	
8Q5	B	L184B22	8J5	132	X	X		
8Q5	B	L184B22	8XA4	21			X	
8Q5	C	L182D22	8TB7	A4	X	X	X	
8Q5	C	L182E22	8Q6	C	X	X	X	
8Q5	E	L187A22	8TB6	F3	X	X	X	
8Q6	B	L184A22	8Q5	B	X	X	X	
8Q6	C	L182E22	8Q5	C	X	X	X	
8Q6	C	L182F22	8J5	106	X	X		
8Q6	C	L182F22	8XA4	53		X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8Q6	E	L188A22	8TB6	A3	X	X	X	
8RT1P1		W54A18	8Z2P1	C		X	X	
8RT1P2		W55A18	4A1J1	T	X	X		
8R1		L6C22	1TB3	B9	X	X	X	
8R1		L8A22	1TB3	J9	X	X	X	
8R10	3	L156E22	8R10	4	X	X	X	
8R10	4	L156D22	4A1P1	B	X	X	X	
8R10	4	L156E22	8R10	3	X	X	X	
8R10	5	L160C22	8R11	5	X	X	X	
8R10	5	L160D22	4A1P1	A	X	X	X	
8R10	6	L152A22	4A1P1	C	X	X	X	
8R10	7	L29D22	4A1P1	D	X	X	X	
8R10	7	L29E22	8R11	7	X	X	X	
8R11	3	L166E22	8R11	4	X	X	X	
8R11	4	L166D22	4A1P1	E	X	X	X	
8R11	4	L166E22	8R11	3	X	X	X	
8R11	5	L160B22	8R12	5	X	X	X	
8R11	5	L160C22	8R10	5	X	X	X	
8R11	6	L162A22	4A1P1	F	X	X	X	
8R11	7	L29E22	8R10	7	X	X	X	
8R11	7	L29F22	8R12	7	X	X	X	
8R12	3	L176E22	8R12	4	X	X	X	
8R12	4	L176D22	4A1P1	G	X	X	X	
8R12	4	L176E22	8R12	3	X	X	X	
8R12	5	L160A22	8R13	5	X	X	X	
8R12	5	L160B22	8R11	5	X	X	X	
8R12	6	L172A22	4A1P1	H	X	X	X	
8R12	7	L29F22	8R11	7	X	X	X	
8R12	7	L29G22	8R13	7	X	X	X	
8R13	1	L256A22	4A1P1	V	X	X	X	
8R13	2	L255B22	4A1P1	U	X	X	X	
8R13	2	L255C22	4A1P1	T	X	X	X	
8R13	3	L183B22	4A1P1	N	X	X	X	
8R13	3	L183C22	4A1P1	P	X	X	X	
8R13	4	L185A22	4A1P1	J	X	X	X	
8R13	5	L160A22	8R12	5	X	X	X	
8R13	6	L182A22	4A1P1	K	X	X	X	
8R13	7	L29G22	8R12	7	X	X	X	
8R14	3	L212A22	8R14	6			X	
8R14	4	L189A22	4A1P1	H	X	X	X	
8R14	5	L213A22N	GND		X	X	X	
8R14	6	L212A22	8R14	3			X	
8R14	7	L29L22	4A1P1	G	X	X	X	
8R3	1	L259A22	1A2P2	V			X	
8R3	3	L228A22	8R3	4	X	X		
8R3	4	L228A22	8R3	3	X	X		
8R3	4	L228B22	1A2P1	D	X	X	X	
8R3	5	L226A22	8R5	5	X	X		
8R3	5	L238A22	8R4	5	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8R3	6	L227A22	1A2P1	<u>E</u>	X	X	X	
8R3	7	L38G22	8R4	<u>7</u>	X	X		
8R4	1	L259A22	1A2P1	V	X	X		
8R4	2	L258B22	1A2P1	<u>F</u>	X	X	X	
8R4	2	L258C22	1A2P1	<u>T</u>	X	X	X	
8R4	3	L234B22	1A2P1	S	X	X	X	
8R4	3	L234C22	1A2P1	<u>I</u>	X	X	X	
8R4	4	L235A22	1A2P1	<u>A</u>	X	X	X	
8R4	5	L238A22	8R3	5	X	X		
8R4	5	L238B22	1A2P2	U			X	
8R4	5	L238B22	1A2P1	U	X	X		
8R4	6	L233A22	1A2P1	<u>B</u>	X	X	X	
8R4	7	L38F22	1A2P1	<u>C</u>	X	X	X	
8R4	7	L38G22	8R3	<u>7</u>	X	X		
8R5	3	L222B22	1A2P1	C	X	X		
8R5	3	L222C22	1A2P1	B	X	X		
8R5	4	L223A22	1A2P1	<u>Q</u>	X	X		
8R5	5	L226A22	8R3	5	X	X		
8R5	6	L220A22	1A2P1	D	X	X		
8R5	7	L38D22	1A2P1	E	X	X		
8S1	1	L5A22	SPLICE		X	X	X	
8S1	2	L3A22	10A1P1	R	X	X	X	
8S1	4	L2A22	10A1P1	P	X	X	X	
8S1	5	L1C22	10A1P1	N	X	X	X	
8S1	6	L5B22	SPLICE		X	X	X	
8S2	2	L5C22	SPLICE		X	X	X	
8S1P1	C	L230A22 * *	8TB5	A1	X	X	X	
8S10	NORM	35	5A2P1	X	X			
8S10	NVG	34	5A2P1	W	X			
8S12	1	L29T22	4A1P1	<u>P</u>	X	X	X	
8S12	3	L30A22	8S12	<u>4</u>	X	X	X	
8S12	3	L30B22 * *	4A1P1	<u>Q</u>	X	X	X	
8S12	4	L30A22	8S12	<u>3</u>	X	X	X	
8S12	5	L31A22N	GND		X	X	X	
8S2	1	L7A22	10A1P1	M			X	
8S2	2	L5C22	SPLICE		X		X	
8S2	3	L6A22	10A1P1	L	X	X	X	
8S3	1	L11A22	10A1P1	K	X	X	X	
8S3	2	L10C22	10A1P1	J	X	X	X	
8S3	2	L3A22	10A1P1	R	X	X	X	
8S3	2	L5A22	10A1P1	R	X			
8S4	C	L14A22	8S5	3	X	X	X	
8S4	D	L16A22	4A2P1	H	X	X	X	
8S4	F	L18A22	4A2P1	G	X	X	X	
8S4	F	L17A22	4A2P1	P	X	X	X	
8S4	G	L13D22	8S5	2	X	X	X	
8S5	1	L15A22	4A2P1	R	X	X	X	
8S5	2	L13C22	4A2P1	X	X	X	X	
8S5	2	L13D22	8S4	G	X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
8S5	3	L14A22	8S4	C	X	X	X	
8S5	3	L14B20	4A2P1	U	X	X	X	
8S6	NC	W28A22	8A2P1	E		X		
8S6	NC	W28A22	8A2P1	W			X	
8S6	NC	W28A22	8A2P1	Y	X			
8S6	NO	W29A22N	GND		X	X	X	
8S7	1	W62A22	4A1P1	D	X	X	X	
8S7	2	W55B22	4A1P1	T	X	X	X	
8S7	3	W56A22	4A1P1	S	X	X		
8S8	1	L47A22	8CB11			X		
8S8	1	L47B22	SPLICE		X		X	
8S8	2	L48A22	8DS16W		X		X	
8S9	2	L244B22	1A2P1	G	X	X	X	
8S9	3	L246A22	1A2P1	H	X	X	X	
8TB1	1	L8E22(WHT)	8DS3		X	X	X	
8TB1	1	L8C22(WHT)	10J1	C	X	X	X	
8TB1	1	L8D22(WHT)	8DS4		X	X	X	
8TB1	2	L8C22(BLU)	10J1	D	X	X	X	
8TB1	2	L8E22(BLU)	8DS4		X	X	X	
8TB1	2	L8D22(BLU)	8DS4		X	X	X	
8TB3	A1	L170A20N	GND		X	X	X	
8TB3	A2	L170L22	2M1P1	E	X			
8TB3	A2	L170L22	2M1P1	F		X	X	
8TB3	A4	L29R22	8TB4	C4	X		X	
8TB3	A5	L70B22	8TB4	D12		X		
8TB3	A6	L230N22	8TB5	B1		X		
8TB3	B1	L170B22 * *	1M18P1	B	X	X	X	
8TB3	B1	L227C22	8XA6	31			X	
8TB3	B2	L170M22	1M6P1		X	X	X	
8TB3	B3	APN209-23A22	3408DS1P1	5	X			
8TB3	B4	L29S22	4A1J1	P	X		X	
8TB3	B5	L206C22	8TB7	E4		X		
8TB3	B6	L21B22N	GND			X		
8TB3	C1	L170C22 * *	1M19P1	B	X	X	X	
8TB3	C2	L170N22	1M8P1	C	X	X	X	
8TB3	C4	L159A22	8J5	81	X	X		
8TB3	C5	L20A22	8J5	96		X		
8TB3	D1	L170D22	1M20P1	1	X	X	X	
8TB3	D4	L159B22 * *	1M19P1	C	X	X		
8TB3	D5	L225G22	8TB5	K6		X		
8TB3	E1	L170E22	1M4P1	H	X	X	X	
8TB3	E4	L159C22	8TP3		X	X		
8TB3	E5	L236G22	8TB5	J7		X		
8TB3	F1	L170F22	1M3P1	H	X	X	X	
8TB3	F2	L170K22	8TB3	K1	X	X	X	
8TB3	F3	L170V22	8TB3	K2	X	X		
8TB3	F4	L30C22	4A1J1	Q	X		X	
8TB3	F5	L70C22	8TP1			X		
8TB3	F6	L230P22	8TP7			X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8TB3	G1	L170G22	1M2P1	F	X	X	X	
8TB3	G2	L170S22	4M1P1	<u>G</u>	X	X	X	
8TB3	G4	L29H22	4A3J1	X	X		X	
8TB3	G5	L206D22	8TP2			X		
8TB3	G6	L21A22	8TP8			X		
8TB3	H1	L170H22	1M1P1	B	X	X	X	
8TB3	H2	ARN123-78A22	3400DS1P1	62	X			
8TB3	H5	L20B22	8TP4			X		
8TB3	J1	L170J22	1M7P1	F	X	X	X	
8TB3	J2	L170U22	1M5P1	X	X	X	X	
8TB3	J5	L225H22	8TP5			X		
8TB3	K1	L170K22	8TB3	F2	X	X	X	
8TB3	K2	L170V22	8TB3	F3	X	X		
8TB3	K3	W22E22	4A1J1	<u>E</u>	X	X	X	
8TB3	K5	L236H22	8TP6			X		
8TB4	A1	L195A22	8J5	110	X	X		
8TB4	A1	L195A22	8XA4	48			X	
8TB4	A10	W95A22	8A2P1	<u>P</u>	X	X	X	
8TB4	A2	L195F22 *	9A1J1	B	X	X		
8TB4	A2	ARC114-3A22 **	2304TR1P1	C	X			
8TB4	A3	L195W22	10A1J1	<u>A</u>	X	X	X	
8TB4	A4	L29B22	2A1J1	<u>H</u>	X	X	X	
8TB4	A7	W6A20	8A3P1	L	X	X	X	
8TB4	B1	L195B22 * *	22A2P1	T			X	
8TB4	B1	A379A22	22A2P1	T	X	X		
8TB4	B1	L195AF20 *	UP FLD LT		X	X	X	
8TB4	B10	W95B22	5A1P1	L	X	X	X	
8TB4	B12	L270A22	8J5	98		X		
8TB4	B2	L195T22	8A2P1	<u>J</u>	X	X	X	
8TB4	B3	L195Y22	2A1J1	<u>G</u>	X	X		
8TB4	B4	L29C22	4A1J1	<u>D</u>	X	X	X	
8TB4	B5	W83A22	8A2P1	C	X	X	X	
8TB4	B6	W6D20	8TB4	D7	X	X	X	
8TB4	B7	W6B20	8TB4	G9	X	X	X	
8TB4	B8	W6E20	8TB4	E7	X	X	X	
8TB4	B9	W17A22	1Z3P1	U	X	X	X	
8TB4	C1	L195D22 * *	21A1P1	<u>E</u>			X	
8TB4	C1	L195D22	21A1P1	88	X	X		
8TB4	C10	W95D22	4A1J1	K	X	X	X	
8TB4	C12	L70A22	8TB4	D3		X		
8TB4	C2	ARC116-3A20	230TR1P1	C	X			
8TB4	C2	TG316A22(WHT)	20A16PO1	H	X	X	X	
8TB4	C3	L195AA22	4A2J1	N	X	X		
8TB4	C4	L29R22	8TB3	A4	X		X	
8TB4	C4	L29S22	4A1J1	<u>P</u>		X		
8TB4	C6	W9B20	10P1	<u>A</u>	X	X		
8TB4	C6	W9B20	10P1	F			X	
8TB4	C7	W6C20	8TB4	G6	X	X	X	
8TB4	C8	W10B20	1J1	<u>G</u>	X	X	X	
8TB4	C9	W21B22	8J5	37	X	X		
8TB4	C9	W21B22	8XA4	25			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8TB4	D1	ARC114-3A22 *	SPLICE		X			
8TB4	D1	L195F22 **	9A1J1	B	X	X		
8TB4	D10	W67A22	8A2P1	I	X	X	X	
8TB4	D12	L70B22	8TB3	A5		X		
8TB4	D3	L70A22	8TB4	C12		X		
8TB4	D4	L29K22	4A1J1	G	X	X	X	
8TB4	D6	W9A20	8A2P1	L	X	X	X	
8TB4	D7	W6D20	8TB4	B6	X	X	X	
8TB4	D8	W10A20	8A1P1	J	X	X	X	
8TB4	D9	W21A22	8A2P1	T	X	X	X	
8TB4	E1	L195H22 **	1A1J1	B	X	X		
8TB4	E10	W67B22	8A3P1	U	X	X	X	
8TB4	E3	ARN 123-69A22 **	3400CP1P1	L	X			
8TB4	E2	L195H22 *	1A1J1	B	X	X		
8TB4	E3	L195K22*	2A2J1	D	X	X		
8TB4	E4	A1063A22	16A3P2	2		X		
8TB4	E5	W84A22	1J1	P	X	X	X	
8TB4	E7	W6E20	8TB4	B8	X	X	X	
8TB4	F1	L195K22 **	TO 2A2J1	D	X	X		
8TB4	F1	L195AG20 *	FLD LT		X	X	X	
8TB4	F11	W132A22	8A3P1	D	X	X		
8TB4	F12	A1051A22 **	18A3P1	D		X		
8TB4	F12	A97A22N	GND			X		
	(SHLD							
8TB4	F2	L195S22 **	8TB4	K1	X	X		
8TB4	F2	L195M22 *	3A1J1	C	X	X		
8TB4	F3	L195V22	8TB4	K2	X	X		
8TB4	F4	W1B22	2A1J1	N	X	X	X	
8TB4	F5	W58A22N	GND		X	X	X	
8TB4	F7	W68A22	1S7P1	A	X			
8TB4	G1	L195M22 **	3A1J1	C	X	X		
8TB4	G1	W46B22	8XA4	52	X		X	
8TB4	G10	C18A22	1XK5	X2	X	X	X	
8TB4	G11	W132B22	8A2P1	W	X	X		
8TB4	G12	A1117A22 **	16DS1P1	W		X		
8TB4	G2	APX72-768A22	3410CP1P1	12	X			
8TB4	G3	L195AC22	4A1J1	L	X	X	X	
8TB4	G4	W1C22	8A2P1	N	X	X	X	
8TB4	G6	W6C20	8TB4	C7	X	X	X	
8TB4	G7	C243A22	9A2P2	20	X			
8TB4	G9	W6B20	8TB4	B7	X	X	X	
8TB4	H1	1C6533-17A22 **	2301CP1P1	U	X			
8TB4	H1	L195AE20 *	LR FLD LT		X	X	X	
8TB4	H10	W68A22	1S7P1	A		X	X	
8TB4	H10	W68B22	8TB4	K7	X	X		
8TB4	H11	W132C22	3K1	13	X	X		
8TB4	H2	ARN89-12A22	3406R1P1	M	X			
8TB4	H3	ASN43-24A20	3407CP1P1	U	X			
8TB4	H4	W1D22	8TB7	A3	X	X	X	
8TB4	H6	W8B20	10P1	E	X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8TB4	H7	C242A22	9A2P1	20	X			
8TB4	H8	W41D22	8J5	38		X		
8TB4	H8	W41D22	8XA4	29	X		X	
8TB4	H9	W7B20	1J2	B	X	X	X	
8TB4	J1	L195P22 * *	22A1P1	M	X	X		
8TB4	J2	KY28-17A20	2319CP1P1	H		X		
8TB4	J3	ARN123-58A22	3405CP1P1	21	X			

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8TB4	J5	W62B22	4A1J1	<u>D</u>	X	X	X	
8TB4	J6	W8A20	8A2P1	K	X	X	X	
8TB4	J8	W41C22	8A2P1	<u>S</u>	X	X	X	
8TB4	J9	W7A20	8A2P1	<u>M</u>	X	X	X	
8TB4	K1	L195S22* *	8TB4	F2	X	X		
8TB4	K12	A1061A22	16A3P2	5		X		
8TB4	K2	L195V22	8TB4	F3	X	X		
8TB4	K3	APR39-29A22	3422CP1P	13	X			
8TB4	K7	W68B22	8TB4	H10	X	X		
8TB4	K8	W41A22	1M4P1	F	X	X	X	
8TB5	A1	L230A22* *	8S1P1	C	X	X	X	
8TB5	A2	L230B22	8TB5	E1	X	X	X	
8TB5	A3	L250A22N	GND		X	X	X	
8TB5	A4	L250B22	8TB5	E3	X	X	X	
8TB5	A5	L38C22	1A2J1	E	X	X		
8TB5	A5	L38C22	5A1P1	N			X	
8TB5	A6	W19D22	8TB8	F2	X		X	
8TB5	A7	W19D22	8TB8	F2		X		
8TB5	A7	L236B22*	8TB8	B5			X	
8TB5	A8	L236B22*	8TB8	B5	X	X		
8TB5	B1	L230N22	8TB3	A6		X		
8TB5	B5	L38E22	1A2J1	<u>C</u>	X	X	X	
8TB5	B8	L236AA20*	LH FLD LT		X	X	X	
8TB5	B8	L236AB20*	LC FLD LT		X	X	X	
8TB5	B9	995-5B5W1200*	8TB5	D9		X		
8TB5	C2	L230C22	1M21P1	A	X	X	X	
8TB5	C4	L250C22	1M21P1	B	X	X	X	
8TB5	C5	L236B22* *	8TB8	B5	X	X	X	
8TB5	C6	L225B22* *	8TB8	G5	X	X	X	
8TB5	D2	L230D22	1M22P1	C	X	X	X	
8TB5	D3	W96A22	22A5P2	16		X		
8TB5	D4	L250D22	1M22P1	B	X	X	X	
8TB5	D5	L236C22	5A1P1	G	X	X	X	
8TB5	D6	L225C22	5A1P1	M	X		X	
8TB5	D7	L230A22*	8S1P1	C			X	
8TB5	D8	L230A22*	8S1P1	C	X	X		
8TB5	D9	995-5B5W1200*	8TB5	B9		X		
8TB5	E1	L230B22	8TB5	A2	X	X	X	
8TB5	E2	L230E22* *	1M23P1		X	X	X	
8TB5	E3	L250B22	8TB5	A4	X	X	X	
8TB5	E5	L236D22	1A2J1	<u>J</u>	X	X		
8TB5	E6	L225E22	5A1P1	<u>H</u>	X	X	X	
8TB5	E7	L230E22*	1M23P1				X	
8TB5	E8	L230E22*	1M23P1		X	X		
8TB5	E9	L262B22*	8TB5	B7		X		
8TB5	F1	L230F22	8A3P1	y	X		X	
8TB5	F2	L230L22	1M13P1	G	X	X	X	
8TB5	F3	L250E22N	1M10P1	X	X	X	X	
8TB5	F4	L250K22N	1M13P1	H	X	X	X	
8TB5	F5	L38B22	2A1J1	J	X	X	X	
8TB5	F6	W19B22	2A1J1	P	X			

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8TB5	F7	L225B22 *	8TB8	G5			X	
8TB5	F8	L225B22 *	8TB8	G5	X	X		
8TB5	G1	L230G22	5M1P1	D	X	X	X	
8TB5	G2	L230M22	1M10P1	Y	X	X	X	
8TB5	G3	L250F22N	5M1P1	E	X	X	X	
8TB5	G5	L38H22	8TB8	J1	X	X	X	
8TB5	G7	W19C22	8A3P1	X		X		
8TB5	G8	L225AA20 *	CEN FLD LT		X	X	X	
8TB5	G9	L262D20 *	RP7633G152			X		
8TB5	H1	L230H22	1M11P1	A	X	X	X	
8TB5	H3	L250G22N	1M11P1	B	X	X	X	
8TB5	H5	L236J22	8TB5	H7		X		
8TB5	H6	A212A22 * *	22A3P1	Z	X	X		
8TB5	H7	L236J22	8TB5	H5		X		
8TB5	H7	W19B22	2A1J1	P		X		
8TB5	H7	L225F22 *	22A3P1	Z			X	
8TB5	H8	A212A22 *	22A3P1	Z	X	X		
8TB5	H9	L262E20 *	RP7633G152	X1		X		
8TB5	J1	L230J22	1M14P1	G	X	X	X	
8TB5	J3	L250H22N	1M14P1	H	X	X	X	
8TB5	J5	2C6533-17A22	2301CP2P1	U	X			
8TB5	J6	TG237A22(WHT)	20A4PO1	B	X	X	X	
8TB5	J7	L236G22	8TB3	E5		X		
8TB5	J8	L230AA20 *	RC FLD LT		X	X	X	
8TB5	J8	L230AB20 *	RH FLD LT		X	X	X	
8TB5	J9	L262C20 *	RP7633G152	A3		X		
8TB5	K1	L230K22	1M12P1	E	X	X	X	
8TB5	K2	ASN43-31A20	3400DS1P1	H	X			
8TB5	K3	L250J22N	1M12P1	F	X	X	X	
8TB5	K4	ASN43-32A20	3400DS2P1	K	X			
8TB5	K5	ARC115-3A20 * *	2303TR1P1	C	X			
8TB5	K6	L225G22	8TB3	D5		X		
8TB5	K7	L236K22	8A3P1	Y		X		
8TB6	A1	L166A22	8PS3P1	D	X	X	X	
8TB6	A2	L168C22 * *	1M4P1	G	X	X	X	
8TB6	A3	L188A22	8Q6	E	X	X	X	
8TB6	A4	L169A22	8J5	67	X	X		
8TB6	A4	L169A22	8XA5	66			X	
8TB6	B1	L166B22	22A5P1	39		X		
8TB6	B1	L166B22	8XK4	B2	X		X	
8TB6	B3	L188B22	8J5	129	X	X		
8TB6	B3	L188B22	8XA4	44			X	
8TB6	B4	L169B22	8J5	97	X	X		
8TB6	B4	L169B22	8XA5	38			X	
8TB6	C1	L166C22	4A1J1	E	X	X	X	
8TB6	C2	L156B22	8XK4	D2	X	X	X	
8TB6	C3	L188C22	8J5	128	X	X		
8TB6	C3	L188C22	8XA44	42			X	
8TB6	C4	ARN123-79A22 * *	3400DS1P1	63	X			
8TB6	D1	L176C22	4A1J1	G	X	X	X	
8TB6	D2	L156C22	4A1J1	B	X	X	X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8TB6	D3	L167C22 * *	4M1P1	L	X	X	X	
8TB6	D4	W49C22	8J5	108		X		
8TB6	D4	W49C22	8XA4	57	X		X	
8TB6	F1	W46A22	8Z1P1	F	X	X	X	
8TB6	F2	L168A22	8J5	82	X	X		
8TB6	F2	L168A22	8XA5	1			X	
8TB6	F3	L187A22	8Q5	E	X	X	X	
8TB6	F4	L15I7A22	8XA5	33			X	
8TB6	F4	L157A22	8J5	64	X	X		
8TB6	F5	W51B22	8Q4	C		X		
8TB6	F5	W51B22	8Q4	E	X		X	
8TB6	G1	W46B22	8J5	58		X		
8TB6	G2	L168B22	8J5	73	X	X		
8TB6	G2	L168B22	8XA4	69			X	
8TB6	G3	L187B22	8J5	131	X	X		
8TB6	G3	L187B22	8XA4	13				
8TB6	G4	L157B22	8J5	85	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8TB6	G4	L157A22	8XA5	37			x	
8TB6	G5	W53A22N	GND		x	x	x	
8TB6	G6	W19C22	8A3P1	X	x		x	
8TB6	H2	L156A22	8PS2P1	D	x	x	x	
8TB6	H3	L187C22	8J5	130	x	x		
8TB6	H3	L167C22	8XA4	47			x	
8TB6	H4	L157C22	SPLICE		x	x		
8TB6	H4	L157C22	1M20P1	3			x	
8TB6	J1	L176A22	8PS4J1	D	x	x	x	
8TB6	J3	L167A22	8J5	65	x	x		
8TB6	J3	L167A22	8XA5	57			x	
8TB6	J4	W49A22	22A5P2	32		x		
8TB6	J4	W49A22	8XK3	E2	x		x	
8TB6	K1	L176B22	22A5P1	42		x		
8TB6	K1	L176B22	8XK4	C2	x		x	
8TB6	K3	L167B22	8J5	86	x	x		
8TB6	K3	L167B22	8XA5	3			x	
8TB6	K4	W49B22	8Q4	C	x	x	x	
8TB6	4C	ARN123-79A22	3400DS1P1	63				
8TB7	A1	L196A22	8J5	51	x	x		
8TB7	A1	L196A22	8XA5	7			x	
8TB7	A2	L197G22	8J5	57	x	x		
8TB7	A2	L197G22	8XA4	9			x	
8TB7	A3	W1D22	8TB4	H4	x	x	x	
8TB7	A4	L182D22	8Q5	C	x	x	x	
8TB7	B2	L197H22	8J5	28	x	x		
8TB7	B2	L197H22	8XA5	61			x	
8TB7	B3	W1E22	22A5P2	30		x		
8TB7	B3	W1E22	8XK3	D3	x		x	
8TB7	B4	L182B22	4A1J1	K	x	x	x	
8TB7	C2	L197B22	8J5	33	x	x		
8TB7	C2	L197B22	8XA5	50			x	
8TB7	C3	W1F22	22A5P2	31		x		
8TB7	C3	W1F22	8XK3	E1	x		x	
8TB7	C4	L182C22	22A5P2	21		x		
8TB7	C4	L182C22	8XK3	A3	x		x	
8TB7	D2	L197J22	1TB10	K6		x		
8TB7	D2	A371A22	19XK92	X1	x			
8TB7	D2	A617A22	19XK92	X1			x	
8TB7	D4	L206A22	8J5	91	x	x		
8TB7	E1	W101B22	1A2J1	X	x	x	x	
8TB7	E2	L197K22	8J5	47	x	x		
8TB7	E2	L197K22	8XA5	9		x		
8TB7	E4	L206C22	8TB3	B5		x		
8TB7	F2	L197A22	4A3J1	w	x	x	x	
8TB7	F3	W9A22	8A2P1	Q	x	x		
8TB7	G2	L197C22	22A5P1	226	x			
8TB7	G2	L197C22	8XK3	X1	x		x	
8TB7	G3	W4B22	8J5	56		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8TB7	G3	W4B22	8XA4	46	x		x	
8TB7	H2	L197D22	22A5P1	34		x		
8TB7	H2	L197D22	8XK4	X1	x		x	
8TB7	H3	W4C22	8J5	43		x		
8TB7	H3	W4C22	8XA6	7	x		x	
8TB7	J1	W101C22	8J5	29		x		
8TB7	J1	W101C22	8XA5	29	x		x	
8TB7	J2	L197E22	8J5	39	x	x		
8TB7	J2	L197E22	8XA4	61			x	
8TB7	J4	L206B22 **	2M1P1	E	x	x		
8TB7	K1	W103A22	8A3P1	H	x	x	x	
8TB7	K2	L197F22	8J5	36	x	x		
8TB7	K2	L197F22	8XA4	50			x	
8TB8	A1	L227B22	1A2J1	E	x	x		
8TB8	A2	L233C22	8Q2	C	x		x	
8TB8	A4	L253A22	8J5	42	x	x		
8TB8	A4	L253A22	8XA6	9			x	
8TB8	A5	L236A22	8Q2	E	x	x	x	
8TB8	B1	L227C22	8J5	75	x	x		
8TB8	B2	L233D22	22A5P2	8		x		
8TB8	B2	L233D22	8XK1	C2	x		x	
8TB8	B4	A1015C22	SPLICE			x		
8TB8	B4	A1015B22	20A1J09	N		x		
8TB8	B5	L236B22* *	8TB5	C5	x	x	x	
8TB8	B5	L236B22 *	8TB5	A7			X	
8TB8	C1	L227D22	8PS1P1	A	x	x	X	
8TB8	C2	L233B22	1A2J1	B	x	x	x	
8TB8	C2	L233C22	8Q2	C		x		
8TB8	D1	L38J22	22A5P2	14		x		
8TB8	D1	L38J22	8XK1	E2	x		x	
8TB8	D2	L228D22	22A5P2	11		x		
8TB8	D2	L228D22	8XK1	D2	x		x	
8TB8	D3	W96A22	8XK1	F1	x		x	
8TB8	D5	A1014C22	SPLICE			x		
8TB8	D5	A1014B22	20A1J09	R		x		
8TB8	E1	L38K22	19XK80	E2	x			
8TB8	E1	L38K22	19XK90	A2			x	
8TB8	E1	L38K22	22A5P2	50		x		
8TB8	E2	L228E22	8PS1P1	D	x	x	x	
8TB8	E3	W96B22	8Q3	C	x	x	x	
8TB8	E5	L220B22	1A2J1	D		x		
8TB8	F1	L220D22	8Q1	C			x	
8TB8	F1	L220C22	8XK1	A2	x			
8TB8	F2	W19D22	8TB5	A7		x		
8TB8	F2	W19D22	8TB5	A16	x		x	
8TB8	F4	L246B22	1A2J1	E	x	x	x	
8TB8	F5	L225A22	8Q1	E	x	x	x	
8TB8	G1	L220C22	8XK1	A2				
8TB8	G1	L220D22	8Q1	C	x			
8TB8	G2	W19E22	22A5P2	6		x		
8TB8	G2	W19E22	8XK1	B3	x		x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
8TB8	G4	L246C22	5A2J1	W	X	X	X	
8TB8	G5	L225B22 * *	8TB5	C6	X	X	X	
8TB8	G5	L225B22 *	8TB5	F8	X	X		
8TB8	H1	L220B22	1A2J1	D	X			
8TB8	H1	L220B22	5A1P1	P			X	
8TB8	H2	W19F22	22A5P2	17		X		
8TB8	H2	W19F22	8KX1	F2	X		X	
8TB8	H4	L246D22	22A5P2	224		X		
8TB8	H4	L246D22	8XK1	X1	X		X	
8TB8	J1	L38H22	8TB5	G5	X	X	X	
8TB8	J3	W96C22	8J5	104		X		
8TB8	J3	W96C22	8XA5	57	X		X	
8TB8	J4	L246E22	8J5	24	X	X		
8TB8	J4	L246E22	8XA6	61			X	
8TB8	J5	L220C22	22A5P2	2		X		
8TB8	K2	L228C22	1A2J1	D	X	X	X	
8TB8	K4	A103A22	19XK91	X1			X	
8TB8	K4	A365A22	19XK91	X1	X			
8TB8	K4	A365A22	22A5P1	136		X		
8TB8	K5	L220D22	8Q1	C		X		
8TP1		L70C22	8TB3	F5		X		
8TP2		L206D22	8TB3	G5		X		
8TP3		L159C22	8TB3	E4	X	X		
8TP4		L20B22	8TB3	H5		X		
8TP5		L225H22	8TB3	J5		X		
8TP6		L236H22	8TB3	K5		X		
8TP7		L230P22	8TB3	F6		X		
8TP8		L21 A22	8TB3	G6		X		
8XA4	110	L526A22	8P5	110	X	X		
8XA4	13	L187B22	8TB6	G3			X	
8XA4	13	L532A22	8P5	131	X	X		
8XA4	21	L184B22	8Q5	B			X	
8XA4	21	L531 A22	8P5	132	X	X		
8XA4	25	W21B22	8TB4	C9			X	
8XA4	25	L509A22	8P5	37	X			
8XA4	126	L581 A22	8P5	126		X		
8XA4	29	L508A22	8P5	38	X	X		
8XA4	29	W41 D22	8TB4	H8			X	
8XA4	31	L206A22	2M1P1	E			X	
8XA4	31	L522A22	8P5	91	X	X		
8XA4	33	L203A22 * *	1 M2P1	E			X	
8XA4	33	L519A22	8P5	71	X	X		
8XA4	39	L578A22	8P5	98		X		
8XA4	40	L574A22	8P5	99		X		
8XA4	42	L188C22	8TB6	C3			X	
8XA4	42	L535A22	8P5	128	X	X		
8XA4	43	W31 A22	4A1J1	B			X	
8XA4	43	L502A22	8P5	21	X			
8XA4	44	L188B22	8TB6	B3				
8XA4	44	L534A22	8P5	129	X	X		
8XA4	45	L501 A22	8P5	22		X		
8XA4	46	L513A22	8P5	56	X	X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8XA4	48	W4B22	8TB7	G3			X	
8XA4	47	L187C22	8TB6	H3			X	
8XA4	47	L533A22	8P5	130	X	X		
8XA4	48	L195A22	8TB4	A1			X	
8XA4	5	L617A22	8P5	96		X		
8XA4	50	L197F22	8TB7	K2			X	
8XA4	50	L510A22	8P5	36	X	X		
8XA4	51	W43A22	4A1J1	R			X	
8XA4	51	L503A22	8P5	20	X	X		
8XA4	52	L511A22	8P5	58	X	X		
8XA4	52	W46B22	8TB4	G1			X	
8XA4	53	L182F22	8Q6	C			X	
8XA4	53	L530A22	8P5	106	X	X		
8XA4	54	L183D22	4A1J1	P			X	
8XA4	54	L515A22	8P5	54	X	X		
8XA4	55	L185B22	4A1J1	J			X	
8XA4	55	L527A22	8P5	109	X	X		
8XA4	57	L528A22	8P5	108	X	X		
8XA4	57	W49C22	8TB6	D4			X	
8XA4	58	L525A22	8P5	88	X	X		
8XA4	59	L529A22	8P5	107	X	X		
8XA4	59	W50A22	8Q5	B			X	
8XA4	60	L505A22	8P5	18	X	X		
8XA4	60	W40A22	4A1J1	N			X	
8XA4	61	L197E22	8TB7	J2			X	
8XA4	61	L507A22	8P5	39	X	X		
8XA4	61	L507A22	8P5	39	X	X		
8XA4	62	L161A22N	GND				X	
8XA4	62	L506A22	8P5	40	X	X		
8XA4	63	L504A22	8P5	19	X	X		
8XA4	63	W38A22	4A1J1	C			X	
8XA4	64	L208A22 **	1M8P1	A			X	
8XA4	64	L524A22	8P5	89	X	X		
8XA4	65	L207A22 **	1M6P1	E			X	
8XA4	65	L523A22	8P5	90	X	X		
8XA4	66	L205A22 **	1M7P1	E			X	
8XA4	66	L521A22	8P5	92	X	X		
8XA4	67	L204A22 **	1M1P1	A			X	
8XA4	67	L520A22	8P5	70	X	X		
8XA4	68	L202A22**	1M3P1	G			X	
8XA4	68	L518A22	8P5	72	X	X		
8XA4	69	L168B22	8TB6	G2			X	
8XA4	69	L517A22	8P5	73	X	X		
8XA4	7	L514A22	8P5	55		X		
8XA4	70	L175A22	8PS4P1	C			X	
8XA4	70	L516A22	8P5	74	X	X		
8XA4	9	L512A22	8P5	57	X	X		
8XA4	9	L197G22	8TB7	A2			X	
8XA5	1	L569A22	8P5	82	X	X		
8XA5	1	L168A22	8TB6	F2			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
8XA5	3	L571A22	8P5	86	X	X		
8XA5	3	L167B22	8TB6	K3			X	
8XA5	7	L560A22	8P5	51	X	X		
8XA5	7	L196A22	8TB7	A1			X	
8XA5	9	L558A22	8P5	47	X	X		
8XA5	9	L19K22	8TB7	F2			X	
8XA5	13	L579A22	8P5	118	X	X		
8XA5	13	L177A22	8XK4	B1			X	
8XA5	17	W105A22	8A2P1	D			X	
8XA5	17	L549A22	8P5	8	X	X		
8XA5	29	W101C22	8TB7	.J1			X	
8XA5	29	L554A22	8P5	29	X	X		
8XA5	31	L566A22	8P5	68	X	X		
8XA5	31	L211A22 * *	1M5P1	Y			X	
8XA5	33	L563A22	8P5	64	X	X		
8XA5	33	L157A22	8TB6	F4			X	
8XA5	36	L155A22	8PS2P1	C			X	
8XA5	36	L561A22	8P5	52	X	X		
8XA5	37	L157R22	8TR6	G4			X	
8XA5	37	L570A22	8P5	85	X	X		
8XA5	38	L572A22	8P5	97	X	X		
8XA5	38	L169R22	8TR6	R4			X	
8XA5	39	TG286A22	4A1.I1	7	X		X	
8XA5	40	TG312A22(WHT) * *	20A10P01	F	X		X	
8XA5	44	L581A22	8P5	126	X			
8XA5	44	L179A22	8XK4	D1			X	
8XA5	45	L189R22	4A1.I1	H			X	
8XA5	45	L547A22	8P5	6	X	X		
8XA5	47	L580A22	8P5	125	X	X		
8XA5	47	L178A22	8XK4	C1			X	
8XA5	48	L575A22	8P5	103	X	X		
8XA5	48	L180A22N	GND				X	
8XA5	49	L557A22	8P5	46	X			
8XA5	50	L555A22	8P5	33	X	X		
8XA5	50	L197R22	8TR7	C2			X	
8XA5	51	W104A22	8A2P1	C			X	
8XA5	51	L550A22	8P5	15	X	X		
8XA5	52	L556A22	8P5	34	X			
8XA5	57	L576A22	8P5	104	X	X		
8XA5	57	W96C22	8TR8	.J3			X	
8XA5	58	L577A22	8P5	116	X	X		
8XA5	58	W59A22N	GND				X	
8XA5	59	L578A22	8P5	117	X	X		
8XA5	59	W97A22	8Q3	R			X	
8XA5	60	W102A22	8A2P1	X			X	
8XA5	60	L551A22	8P5	16	X	X		
8XA5	61	L553A22	8P5	29	X	X		
8XA5	61	L197H22	8TR7	R2			X	
8XA5	62	L552A22	8P5	27	X	X		
8XA5	62	L190A22N	GND				X	
8XA5	64	L159A22	1M19P1	C			X	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8XA5	64	L568A22	8P5	81	x	x		
8XA5	65	L567A22	8P5	80	x	x		
8XA5	65	L158A22 **	1M18P1	A			x	
8XA5	66	L169A22	8TB6	A4			x	
8XA5	67	L167A22	8TB6	J3			x	
8XA5	66	L565A22	8P5	67	x	x		
8XA5	67	L564A22	8P5	65	x	x		
8XA5	70	L562A22	8P5	63	x	x		
8XA5	70	L165A22	8PS3P1	C			x	
8XA6	7	W4C22	8TB7	H3			x	
8XA6	7	L602A22	8P5	43	x	x		
8XA6	9	L601A22	8P5	42	x	x		
8XA6	9	L253A22	8TB8	A4			x	
8XA6	13	L613A22	8P5	112	x	x		
8XA6	13	L229A22	8XK1	D1			x	
8XA6	21	L232A22	8Q2	B			x	
8XA6	21	L610A22	8P5	94	x	x		
8XA6	25	L600A22	8P5	41	x	x		
8XA6	25	L509A22	8P5	37		x		
8XA6	25	W5A22N	GND				x	
8XA6	29	L599A22	8P5	25	x	x		
8XA6	29	L258A22	1A2J1	E			x	
8XA6	31	L606A22	8P5	75	x	x		
8XA6	31	L227C22	8TB3	B1			x	
8XA6	43	L502A22	8P5	21		x		
8XA6	43	L615A22	8P5	4		x		
8XA6	45	L59A22	8P5	1		x		
8XA6	45	L594A22	8P5	1	x	x		
8XA6	45	W39A22	5A1P1	K			x	
8XA6	46	L616A22	8P5	5		x		
8XA6	48	L614A22	8P5	113	x	x		
8XA6	48	L249A22N	GND				x	
8XA6	53	L605A22	8P5	61	x	x		
8XA6	53	L233E22	8Q2	C			x	
8XA6	54	L612A22	8P5	111	x	x		
8XA6	54	L234D22	1A2J1	I			x	
8XA6	55	L611A22	8P5	95	x	x		
8XA6	55	L235B22	1A2J1	A			x	
8XA6	56	L609A22	8P5	93	x	x		
8XA6	57	L604A22	8P5	60	x	x		
8XA6	57	L220E22	8Q1	C			x	
8XA6	58	L222D22	5A1P1	A			x	
8XA6	58	L223B22	5A1P1	R			x	
8XA6	58	L608A22	8P5	77	x	x		
8XA6	59	L607A22	8P5	76	x	x		
8XA6	59	L221A22	8Q1	B			x	
8XA6	60	L596A22	8P5	3	x	x		
8XA6	61	L598A22	8P5	24	x	x		
8XA6	61	L246E22	8TB8	J4			x	

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8XA6	62	L597A22	8P5	23	x	x		
8XA6	62	L247A22N	GND				x	
8XA6	63	L595A22	8P5	2	x	x		
8XA6	63	W130A22	8A3P1	A			x	
8XA6	70	L603A22	8P5	59	x	x		
8XA6	70	L248A22	8XK1	E1			x	
8XK1	A2	L220C22	8TB8	G1			x	
8XK1	A2	L220C22	8TB8	F1	x			
8XK1	A3	L222A22	5A1P1	B			x	
8XK1	A3	L222A22	1A2J1	C	x			
8XK1	B1	W98A22	8Q3	E	x		x	
8XK1	B2	W99A22	8A3P1	Z	x		x	
8XK1	B3	W19E22	8TB8	G2	x		x	
8XK1	C2	L233D22	8TB8	B2	x		x	
8XK1	C3	L234A22	1A2J1	S	x		x	
8XK1	D1	L229A22	8J5	112	x			
8XK1	D1	L229A22	8XA6	13			x	
8XK1	D2	L228D22	8TB8	D2	x		x	
8XK1	E1	L248A22	8XA6	70			x	
8XK1	E1	L248A22	8J5	59	x			
8XK1	E2	L38J22	8TB8	D1	x		x	
8XK1	F1	W96A22	8TB8	D3	x		x	
8XK1	F2	W19F22	8TB8	H2	x		x	
8XK1	X1	L246D22	8TB8	H4	x		x	
8XK1	X2	L242A22N	GND		x		x	
8XK3	A2	L183A22	4A1J1	N	x		x	
8XK3	A3	L182C22	8TB7	C4	x		x	
8XK3	C2	L255A22	4A1J1	U	x		x	
8XK3	C3	L254A22	8A2P1	K	x		x	
8XK3	D1	W51A22	8Q4	E	x		x	
8XK3	D2	W2A22	8A2P1	R	x		x	
8XK3	D3	W1E22	8TB7	B3	x		x	
8XK3	E1	W1F22	8TB7	C3	x		x	
8XK3	E2	W49A22	8TB6	J4	x		x	
8XK3	X1	L197C22	8TB7	G2	x		x	
8XK3	X2	L200A22N	GND		x		x	
8XK4	B1	L177A22	8J5	118	x			
8XK4	B1	L177A22	8XA5	13			x	
8XK4	B2	L166B22	8TB6	B1	x		x	
8XK4	C1	L178A22	8XA5	47			x	
8XK4	C1	L178A22	8J5	125	x			
8XK4	C2	L176B22	8TB6	K1	x		x	
8XK4	D1	L179A22	8J5	126	x			
8XK4	D1	L179A22	8XA5	44			x	
8XK4	D2	L156B22	8TB6	C2	x	x	x	
8XK4	X1	L197D22	8TB7	H2	x		x	
8XK4	X2	L201A22N	GND		x		x	
8Z1	B	L2B22	10A1J1	P	x	x	x	
8Z1	C	L3B22	10A1J1	R	x			

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF DES.	PIN	E	M	P	
8Z1	E	L4A22N	GND		x			
8Z1P1	C	L3B22	10A1J1	R		x	x	
8Z1P1	E	L4A22N	GND			x	x	
8Z2P1	A	W45D22	SPLICE			x	x	
8Z2P1	B	W57A22N	GND			x	x	
8Z2P1	C	W54A18	8RT1P1			x	x	
8Z2P1	D	W56B22	4A1J1	S	x	x	x	
8Z2P1	F	W46A22	8TB6	F1	x	x	x	
8Z2P1	H	W45C22	SPLICE			x	x	
8Z3		L142D22	GND		x	x	x	
8Z3		L143A22	END CAP		x	x		
8Z3		L144A22	19DS5	C		x		
8Z3		L147A22	22A3J1				x	
8Z3	COIL	L148A22	22A2J1		x	x		
8Z3		L148A22	22A2J1				x	
8Z3		L147A22	SPLICE			x		
8Z3		L143A22	19DS5				x	
8Z3		L144A22	19DS4				x	
8Z4		L143A22	19DS3		x	x		
8Z4		L144A22	19DS2		x			
8Z4		L142D22N	GND		x	x		
8Z4	COIL	L148A22	22A3J1			x		
8Z4	X1	L148A22	22A3J1		x			
8Z4	X2	L147A22	SPLICE		x	x		
9A1J1	B	L195F22 **	8TB4	D1	x	x		
9A2P1	20	C24A22	8TB4	H7	x			
9A2P2	20	C24A22	8TB4	G7	x			
9CB1		C5A20	2A1P2	G	x	x	x	
9CB3		P75A20	2A1		x	x		
9L1P1	A	C8B20	1TB10	G5		x		
9L2P1	A	C8C20	1TB10	H5		x		
9L3P1	A	C8D20	1TB10	C5		x		
9S2	2	C6B20	1A1P1	E	x		x	
9S2	2	C7A20	1A1P1	E		x		
9S2	3	C6B20	1A1P1	V		x		
9S2	3	C7A20	1A1P1	V	x	x	x	
9L1P1	A	C8B20	1TB10	G3	x		x	
9L1P1	B	C9A20N	GND		x	x	x	
9L2P1	A	C8C20	1TB10	H3	x		x	
9L2P1	B	C10A20N	GND		x	x	x	
9L3P1	A	C8D20	1TB10	C3	x		x	
9L3P1	B	C11A20N	GND		x	x	x	
9TB1	A9	A394A22	19A1P1	L	x	x		
9TB1	A10	A393A22	19A1P1	K	x	x		
9TB1	F10	A392A22	19A1P1	J	x	x		
9TB1	F3	W76C22	1S6P1	A	x	x		
9TB1	G3	C247A22	9A2P3	20		x		
9TB1	J3	W76A22	8A2P1	E	x	x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
9TB1 9TB1	K3 17D	W76B22 C260A22	8A3P1 2XK18	F X1	x	x x		
NOTE The following reference designators are peculiar to or have a C-NITE-function on C-NITE equipped helicopters.								
16A2P1	G	TG303A22	SPLICE			x		
16TB1	D6	TG1163A22(WHT)	20A14P01	31		x		
16TB1	D7	TG1163A22(BLU)	20A14P01	30		x		
16TB1	E6	TG1163C22(WHT)	20A1P08	49		x		
16TB1	K7	TG1163C22(BLU)	20A1P08	50		x		
16TB1	F8	A1249A22(ORN)	SPLICE			x		
16TB1	F11	TG1124B16	SPLICE			x		
20A1J09	A	TG1158A22(BLU)	20A14P01	53		x		
20A1J09	B	TG1158A22(WHT)	20A14P01	48		x		
20A1J09	C	TG1144C22	SPLICE			x		
20A1J09	U	A1105A22	SPLICE			x		
20A1J09	G	TG3A22	20P327	GG		x		
20A1J53	N	TG1112A22	20A1P07	36		x		
20A1J53	R	A1105B22	20A1J92	M		x		
20A1J53	U	A1040A22	SPLICE			x		
20A1J66	E	TG1082A22	END CAP			x		
20A1J66	R	TG1081A22(BLU)	20A1P08	68		x		
20A1J66	T	TG1081A22(WHT)	20A1P08	67		x		
20A1J66	U	TG1081A22(ORN)	20A1P08	69		x		
20A1J92	B	TG1121A22(BLU)	20A1P03	I		x		
20A1J92	C	TG1121A22(WHT)	20A1P03	S		x		
20A1J92	F	TG1115A22	END CAP			x		
20A1J92	G	TG180B22(WHT)	20A1P03	P		x		
20A1J92	H	TG180B22(BLU)	20A1P03	C		x		
20A1J92	J	TG180B22(ORN)	20A1P03	N		x		
20A1J92	K	TG178B22(WHT)	20A1P03	D		x		
20A1J92	L	TG178B22(BLU)	20A1P03	L		x		
20A1J92	M	A1105B22	20A1J53	R		x		
20A1J92	N	TG1120A22	20A1P03	R		x		
20A1J92	P	TG1119A22	20A1P03	W		x		
20A1J92	R	TG1118A22	20A1P03	V		x		
20A1J92	S	TG1116A22	20A1P03	M		x		
20A1J92	T	TG1123A22	END CAP			x		
20A1J92	U	TG1117A22	20A1P03	N		x		
20A1P01	C	TG1141A22	SPLICE			x		
20A1P01	D	TG1142A22	SPLICE			x		
20A1P01	K	TG1125A22(ORN)	20A3P01	B		x		
20A1P01	R	TG1130A22	20A3P01	J		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A1P01	S	TG1131A22	20A3P01	T		x		
20A1P01	W	TG1125A22(BLU)	20A3P01	C		x		
20A1P01	FF	TG1125A22(WHT)	20A3P01	A		x		
20A1P02	J	TG1040A20(ORN)	SPLICE			x		
20A1P02	K	TG1040A20(BLU)	SPLICE			x		
20A1P02	U	TG1040A20(WHT)	SPLICE			x		
20A1P03	L	TG178B22(BLU)	20A1J92	L		x		
20A1P03	M	TG1116A22	20A1J92	S		x		
20A1P03	N	TG1117A22	20A1J92	U		x		
20A1P03	P	TG1114A22	END CAP			x		
20A1P03	V	TG1118A22	20A1J92	R		x		
20A1P03	W	TG1119A22	20A1J92	P		x		
20A1P03	C	TG180B22(BLU)	20A1J92	H		x		
20A1P03	D	TG178B22(WHT)	20A1J92	K		x		
20A1P03	I	TG1121A22(BLU)	20A1J92	B		x		
20A1P03	M	TG1113A22	END CAP			x		
20A1P03	N	TG180B22(ORN)	20A1J92	J		x		
20A1P03	P	TG180B22(WHT)	20A1J92	G		x		
20A1P03	R	TG1120A22	20A1J92	N		x		
20A1P03	S	TG1121A22(WHT)	20A1J92	C		x		
20A1P06	A	TG12C18(WHT)	SPLICE			x		
20A1P06	F	TG1155A22	20A14P01	21		x		
20A1P06	W	TG12C18(BLU)	SPLICE			x		
20A1P06	BB	TG14C18(BLU)	SPLICE			x		
20A1P06	DD	TG301C22	SPLICE			x		
20A1P06	P	TG14C18(WHT)	SPLICE			x		
20A1P06	Q	TG523F22	SPLICE			x		
20A1P06	U	TG513B22	SPLICE			x		
20A1P07	1	TG1033C22(ORN)	SPLICE			x		
20A1P07	2	TG1033C22(BLU)	SPLICE			x		
20A1P07	3	TG1033C22(WHT)	SPLICE			x		
20A1P07	4	A1015D22	SPLICE			x		
20A1P07	5	TG1124A22	SPLICE			x		
20A1P07	29	TG1035C22(WHT)	SPLICE			x		
20A1P07	30	TG1035C22(BLU)	SPLICE			x		
20A1P07	31	TG1041C22(BLU)	SPLICE			x		
20A1P07	32	TG1041C22(WHT)	SPLICE			x		
20A1P07	33	TG1039C22(WHT)	SPLICE			x		
20A1P07	34	TG1039C22(BLU)	SPLICE			x		
20A1P07	35	TG1039C22(ORN)	SPLICE			x		
20A1P07	36	TG1112A22	20A1J53	N		x		
20A1P07	38	A1040C22	SPLICE			x		
20A1P07	39	TG1035C22(ORN)	SPLICE			x		
20A1P07	41	TG1026A22(BLU)	20A14P01	55		x		
20A1P07	42	TG1026C22	SPLICE			x		
20A1P07	43	TG1038C22(WHT)	SPLICE			x		

END 1		WIRE NO.	END 2		MODEL			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	EFFECTIVITY			
					E	M	P	
20A1P07	44	TG1038C22(BLU)	SPLICE			x		
20A1P07	45	TG1038C22(ORN)	SPLICE			x		
20A1P07	46	A1014D22	SPLICE			x		
20A1P07	47	TG1036A22(BLU)	20A9P02	L		x		
20A1P07	48	TG1036A22(WHT)	20A9P02	CC		x		
20A1P07	49	TG1037C22(BLU)	SPLICE			x		
20A1P07	50	TG1037C22(WHT)	SPLICE			x		
20A1P07	51	TG1023A22(WHT)	20A14P01	1		x		
20A1P07	52	TG1023A22(BLU)	20A14P01	6		x		
20A1P07	53	TG1023A22(ORN)	20A14P01	2		x		
20A1P07	54	TG1032A22(WHT)	20A3P03	A		x		
20A1P07	55	TG1032A22(BLU)	20A3P03	B		x		
20A1P07	58	TG1025A22(BLU)	20A14P01	15		x		
20A1P07	59	TG1025A22(WHT)	20A14P01	16		x		
20A1P07	60	TG1040B22(WHT)	SPLICE			x		
20A1P07	61	TG1040B22(BLU)	SPLICE			x		
20A1P07	62	TG1040B22(ORN)	SPLICE			x		
20A1P07	63	TG1034C22(WHT)	SPLICE			x		
20A1P07	64	TG1034C22(BLU)	SPLICE			x		
20A1P07	65	TG1031A22(BLU)	20A3P03	E		x		
20A1P07	66	TG1031A22(WHT)	20A3P03	D		x		
20A1P07	67	TG1177A22	20A14P01	62		x		
20A1P07	70	TG1029A22	20A14P01	13		x		
		TG1030A22	20A14P01	26		x		
20A1P07	72	TG1022A22(WHT)	20A14P01	7		x		
20A1P07	73	TG1022A22(BLU)	20A14P01	3		x		
20A1P07	74	TG1022A22(ORN)	20A14P01	8		x		
20A1P07	75	TG1020A22	20A14P01	10		x		
20A1P07	76	TG1019A22	20A14P01	4		x		
20A1P07	77	TG1027A22	20A14P01	12		x		
20A1P07	78	TG1028A22	20A14P01	14		x		
20A1P07	79	TG1021A22	20A14P01	11		x		
20A1P08	1	TG1149C22(WHT)	SPLICE			x		
20A1P08	2	TG1149C22(BLU)	SPLICE			x		
20A1P08	3	TG1151C22(WHT)	SPLICE			x		
20A1P08	4	TG1151C22(BLU)	SPLICE			x		
20A1P08	5	TG1154A22	END CAP			x		
20A1P08	6	TG1150C22(WHT)	SPLICE			x		
20A1P08	7	TG1150C22(BLU)	SPLICE			x		
20A1P08	8	TG1152A22(WHT)	20A9P02	U		x		
20A1P08	9	TG1152A22(BLU)	20A9P02	V		x		
20A1P08	11	TG1048C22	SPLICE			x		
20A1P08	16	ASN128-1E22(WHT)	3400TB1	12J		x		
20A1P08	17	ASN128-1E22(ORN)	3400TB1	12H		x		
20A1P08	18	ASN128-1E22(BLU)	3400TB1	12C		x		
20A1P08	21	TG1067A22	SHIELD			x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A1P08	23	TG1039D22(ORN)	SPLICE			x		
20A1P08	24	TG1039D22(BLU)	SPLICE			x		
20A1P08	25	TG1039D22(WHT)	SPLICE			x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A1P08	29	TG1052C22(WHT)	SPLICE			x		
20A1P08	30	TG1052C22(BLU)	SPLICE			x		
20A1P08	31	TG1050C22(WHT)	SPLICE			x		
20A1P08	32	TG1050C22(BLU)	SPLICE			x		
20A1P08	33	TG1049C22(WHT)	SPLICE			x		
20A1P08	34	TG1049C22(BLU)	SPLICE			x		
20A1P08	35	TG1048B22(ORN)	SPLICE			x		
20A1P08	36	TG1048B22(WHT)	SPLICE			x		
20A1P08	37	TG1048B22(BLU)	SPLICE			x		
20A1P08	38	TG1051B22(WHT)	SPLICE			x		
20A1P08	39	TG1051B22(BLU)	SPLICE			x		
20A1P08	40	TG1051B22(ORN)	SPLICE			x		
20A1P08	41	TG1047A22(WHT)	20A9P02	<u>S</u> <u>T</u> <u>Z</u> <u>A</u> <u>B</u> <u>C</u>		x		
20A1P08	42	TG1047A22(BLU)	20A9P02			x		
20A1P08	43	TG1047A22(ORN)	20A9P02			x		
20A1P08	44	TG1046A22(WHT)	20A9P02			x		
20A1P08	45	TG1046A22(BLU)	20A9P02			x		
20A1P08	46	TG1046A22(ORN)	20A9P02			x		
20A1P08	47	TG1042B22(WHT)	SPLICE			x		
20A1P08	48	TG1042B22(BLU)	SPLICE			x		
20A1P08	49	TG1163C22(WHT)	16TB1	E6 K7 G J K M		x		
20A1P08	50	TG1163C22(BLU)	16TB1			x		
20A1P08	51	TG1058A	20A3P03			x		
20A1P08	52	TG1059A	20A3P03			x		
20A1P08	53	TG1060A	20A3P03			x		
20A1P08	54	TG1064A	20A3P03			x		
20A1P08	55	TG1068A22	END CAP			x		
20A1P08	56	TG1053A22	20A3P03	<u>S</u> <u>T</u> <u>U</u> <u>V</u> <u>K</u> <u>M</u> <u>N</u> <u>P</u> <u>Q</u> <u>R</u>		x		
20A1P08	57	TG1054A22	20A3P03			x		
20A1P08	58	TG1055A22	20A3P03			x		
20A1P08	59	TG1056A22	20A3P03			x		
20A1P08	60	TG1074A22	20A3P03			x		
20A1P08	61	TG1072A22	20A3P03			x		
20A1P08	62	TG1073A22	20A3P03			x		
20A1P08	63	TG1075A22	20A3P03			x		
20A1P08	64	TG1076A22	20A3P03			x		
20A1P08	65	TG1071A22	20A3P03			x		
20A1P08	67	TG1081A22(WHT)	20A1J66	T		x		
20A1P08	68	TG1081A22(BLU)	20A1J66	R		x		
20A1P08	69	TG1081A22(ORN)	20A1J66	U		x		
20A1P08	70	TG1079A22	20A14P01	44		x		
20A1P08	71	TG1080A22	20A14P01	52		x		
20A1P08	72	TG1066A	20A3P03	N		x		
20A1P08	73	TG1061A	20A3P03	A		x		
20A1P08	74	TG1062A	20A3P03	C		x		
20A1P08	75	TG1063A	20A3P03	D		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A1P08	76	TG1065A	20A3P03	F		x		
20A1P08	77	TG1077A22(WHT)	20A3P03	S		x		
20A1P08	78	TG1077A22(BLU)	20A3P03	T		x		
20A1P92	G	TG180A22(WHT)	20A2P03	N		x		
20A1P92	H	TG180A22(BLU)	20A2P03	P		x		
20A1P92	J	TG180A22(ORN)	20A2P03	Q		x		
20A1P92	K	TG178A22(WHT)	20A2P03	K		x		
20A1P92	L	TG178A22(BLU)	20A2P03	M		x		
20A14P01	1	TG1023A22(WHT)	20A1P07	51		x		
20A14P01	2	TG1023A22(ORN)	20A1P07	53		x		
20A14P01	3	TG1022A22(BLU)	20A1P07	73		x		
20A14P01	4	TG1019A22	20A1P07	76		x		
20A14P01	5	TG1098A22	END CAP			x		
20A14P01	6	TG1023A22(BLU)	20A1P07	52		x		
20A14P01	7	TG1022A22(WHT)	20A1P07	72		x		
20A14P01	8	TG1022A22(ORN)	20A1P07	74		x		
20A14P01	9	TG279C22	SPLICE			x		
20A14P01	10	TG1020A22	20A1P07	75		x		
20A14P01	11	TG1021A22	20A1P07	79		x		
20A14P01	12	TG1027A22	20A1P07	77		x		
20A14P01	13	TG1029A22	20A1P07	70		x		
20A14P01	14	TG1028A22	20A1P07	78		x		
20A14P01	15	TG1025A22(BLU)	20A1P07	58		x		
20A14P01	16	TG1025A22(WHT)	20A1P07	59		x		
20A14P01	17	TG87B22	SPLICE			x		
20A14P01	18	TG1106A22	20A3P02	D		x		
20A14P01	19	TG1099A22	20A9P01	36		x		
20A14P01	20	TG501B22	SPLICE			x		
20A14P01	21	TG1155A22	20A1P06	F		x		
20A14P01	22	TG153B22(BLU)	SPLICE			x		
20A14P01	24	TG1024A22	END CAP			x		
20A14P01	25	A1102D22	SPLICE			x		
20A14P01	26	TG1030A22	SPLICE			x		
20A14P01	27	TG1100A22	20A9P01	49		x		
20A14P01	28	TG523C22	SPLICE			x		
20A14P01	29	TG153B22(WHT)	SPLICE			x		
20A14P01	30	TG1163A22(BLU)	16TB1	D7		x		
20A14P01	31	TG1163A22(WHT)	16TB1	D6		x		
20A14P01	32	TG209A22	SPLICE			x		
20A14P01	33	TG84B22(ORN)	SPLICE			x		
20A14P01	35	TG1110A22	20A3P02	A		x		
20A14P01	36	TG1167A22	20A2P05	LL		x		
20A14P01	37	TG491C22	SPLICE			x		
20A14P01	38	TG240C22	SPLICE			x		
20A14P01	39	TG1109A22	20A3P02	G		x		
20A14P01	40	TG1173A22	20P327	F		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A14P01	41	TG1174A22	20P327	<u>D</u>		x		
20A14P01	42	TG84B22(WHT)	SPLICE			x		
20A14P01	43	TG1165A22	SPLICE			x		
20A14P01	44	TG1079A22	20A1P08	70		x		
20A14P01	45	TG1101A22	20A9P01	37		x		
20A14P01	46	TG1105A22	20A3P02	C		x		
20A14P01	47	TG1104A22	20A3P02	B		x		
20A14P01	48	TG1158A22(WHT)	20A1J09	B		x		
20A14P01	49	TG211A22	SPLICE			x		
20A14P01	50	TG84B22(BLU)	SPLICE			x		
20A14P01	51	TG1164A22N	GND			x		
20A14P01	52	TG1080A22	20A1P08	71		x		
20A14P01	53	TG1158A22(BLU)	20A1J09	A		x		
20A14P01	54	TG1026A22(WHT)	SPLICE			x		
20A14P01	55	TG1026A22(BLU)	20A1P07	41		x		
20A14P01	56	TG1107A22	20A3P02	E		x		
20A14P01	58	TG1159A22	20A7P02	N		x		
20A14P01	59	TG1162A22(BLU)	20A7P03	Y		x		
20A14P01	60	TG1162A22(WHT)	20A7P03	S		x		
20A14P01	62	TG1177A22	20A1P07	67		x		
20A14P01	63	TG1160A22	20A7P02	J		x		
20A14P01	64	TG1161A22	20A7P02	E		x		
20A14P01	65	TG1102A22	20A9P01	39		x		
20A14P01	66	TG1103A22	20A9P01	40		x		
20A14P01	70	TG503B22	SPLICE			x		
20A14P01	72	TG281D22	SPLICE			x		
20A2P01	Z	TG14A16(WHT)	SPLICE			x		
20A2P01	<u>A</u>	TG14A16(BLU)	SPLICE			x		
20A2P01	<u>C</u>	TG12A16(WHT)	SPLICE			x		
20A2P01	<u>E</u>	TG12A16(BLU)	SPLICE			x		
20A2P02	T	TG1126A22(WHT)	20A3P01	D		x		
20A2P02	U	TG1126A22(BLU)	20A3P01	F		x		
20A2P02	V	TG1126A22(ORN)	20A3P01	E		x		
20A2P03	<u>K</u>	TG178A22(WHT)	20A1P92	K		x		
20A2P03	<u>M</u>	TG178A22(BLU)	20A1P92	L		x		
20A2P03	<u>N</u>	TG180A22(WHT)	20A1P92	G		x		
20A2P03	<u>P</u>	TG180A22(BLU)	20A1P92	H		x		
20A2P03	<u>Q</u>	TG180A22(ORN)	20A1P92	J		x		
20A2P04	D	TG1134A22	20A3P01	U		x		
20A2P04	<u>B</u>	TG303B22	SPLICE			x		
20A2P04	HH	TG491A22	SPLICE			x		
20A2P05	LL	TG1167A22	20A14P01	36		x		
20A3P01	A	TG1125A22(WHT)	20A1P01	FF		x		
20A3P01	B	TG1125A22(ORN)	20A1P01	K		x		
20A3P01	C	TG1125A22(BLU)	20A1P01	<u>W</u>		x		
20A3P01	D	TG1126A22(WHT)	20A2P02	T		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF.DES.	PIN	E	M	P	
20A3P01	E	TG1126A22 (ORN)	20A2P02	V		x		
20A3P01	F	TG1126A22 (BLU)	20A2P02	U		x		
20A3P01	G	TG53B22	20J327	T		x		
20A3P01	H	TG55B22	20J327	U		x		
20A3P01	J	TG1132A22	20A5P01	S		x		
20A3P01	K	TG1128A22 (WHT)	20A5P03	AA		x		
20A3P01	L	TG1128A22 (BLU)	20A5P03	BB		x		
20A3P01	M	TG1133A20	END CAP			x		
20A3P01	N	TG481C20	SPLICE			x		
20A3P01	P	TG81D22	SPLICE			x		
20A3P01	R	TG82D22	SPLICE			x		
20A3P01	S	TG1130A22	20A1P01	R		x		
20A3P01	W	TG456A22(WHT)	20J2	W		x		
20A3P01	X	TG456A22(BLU)	20J2	X		x		
20A3P01	T	TG1131A22	20A1P01	S		x		
20A3P01	U	TG1134A22	20A2P04	D		x		
20A3P01	V	TG1135A20	20A7P01	M		x		
20A3P01	W	TG3D22	SPLICE			x		
20A3P01	Y	TG1129A22	END CAP			x		
20A3P01	Z	TG1140A20	END CAP			x		
20A3P01	BB	TG1127A22	END CAP			x		
20A3P01	D	TG499D22	SPLICE			x		
20A3P01	E	TG501C22	SPLICE			x		
20A3P01	F	TG240D22	SPLICE			x		
20A3P01	K	TG1137A22(WHT)	20A5P03	A		x		
20A3P01	M	TG1137A22(BLU)	20A5P03	B		x		
20A3P01	P	TG1138A22(WHT)	20A5P03	C		x		
20A3P01	Q	TG1138A22(BLU)	20A5P03	D		x		
20A3P01	T	TG1139A22(WHT)	20J327	L		x		
20A3P01	U	TG1139A22(BLU)	20J327	M		x		
20A3P02	A	TG279B20	SPLICE			x		
20A3P02	B	TG1104A22	20A14P01	47		x		
20A3P02	C	TG1105A22	20A14P01	46		x		
20A3P02	D	TG1106A22	20A14P01	18		x		
20A3P02	E	TG1107A22	20A14P01	56		x		
20A3P02	F	TG1108A22	SPLICE			x		
20A3P02	G	TG1109A22	20A14P01	39		x		
20A3P02	H	TG239F20	SPLICE			x		
20A3P02	K	TG810C22	SPLICE			x		
20A3P02	L	TG812C22	SPLICE			x		
20A3P02	M	TG813C22	SPLICE			x		
20A3P02	N	TG814C22	SPLICE			x		
20A3P02	P	TG815C22	SPLICE			x		
20A3P02	R	TG816C22	SPLICE			x		
20A3P02	A	TG1110A22	20A14P01	35		x		
20A3P03	A	TG1061A	20A1P08	73		x		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A3P03	C	TG1062A	20A1P08	74		x		
20A3P03	D	TG1063A	20A1P08	75		x		
20A3P03	F	TG1065A	20A1P08	76		x		
20A3P03	G	TG1058A	20A1P08	51		x		
20A3P03	J	TG1059A	20A1P08	52		x		
20A3P03	K	TG1060A	20A1P08	53		x		
20A3P03	M	TG1064A	20A1P08	54		x		
20A3P03	N	TG1066A	20A1P08	72		x		
20A3P03	P	TG1070A20	END CAP			x		
20A3P03	R	TG1069A20	SHIELD			x		
20A3P03	S	TG1077A22(WHT)	20A1P08	77		x		
20A3P03	T	TG1077A22(BLU)	20A1P08	78		x		
20A3P03	U	TG834B22	SPLICE			x		
20A3P03	X	TG827B22	SPLICE			x		
20A3P03	Z	TG1078A20	END CAP			x		
20A3P03	A	TG1032A22(WHT)	20A1P07	54		x		
20A3P03	B	TG1032A22(BLU)	20A1P07	55		x		
20A3P03	C	TG1143A20	END CAP			x		
20A3P03	D	TG1031A22(WHT)	20A1P07	66		x		
20A3P03	E	TG1031A22(BLU)	20A1P07	65		x		
20A3P03	G	TG1141B22	SPLICE			x		
20A3P03	H	TG1142B22	SPLICE			x		
20A3P03	K	TG1074A22	20A1P08	60		x		
20A3P03	M	TG1072A22	20A1P08	61		x		
20A3P03	N	TG1073A22	20A1P08	62		x		
20A3P03	P	TG1075A22	20A1P08	63		x		
20A3P03	Q	TG1076A22	20A1P08	64		x		
20A3P03	R	TG1071A22	20A1P08	65		x		
20A3P03	S	TG1053A22	20A1P08	56		x		
20A3P03	T	TG1054A22	20A1P08	57		x		
20A3P03	U	TG1055A22	20A1P08	58		x		
20A3P03	V	TG1056A22	20A1P08	59		x		
20A3P03	FF	TG204E22	SPLICE			x		
20A3P04	A	TG1085C20(WHT)	SPLICE			x		
20A3P04	B	TG1085C20(BLU)	SPLICE			x		
20A3P04	C	TG1086C20(WHT)	SPLICE			x		
20A3P04	D	TG1086C20(BLU)	SPLICE			x		
20A3P04	E	TG1087A22(WHT)	20A9P01	9		x		
20A3P04	F	TG1087A22(BLU)	20A9P01	10		x		
20A3P04	G	TG1087A22(ORN)	20A9P01	11		x		
20A3P04	H	TG480B22	SPLICE			x		
20A3P04	U	TG1091A22(WHT)	20A9P01	45		x		
20A3P04	V	TG1091A22(BLU)	20A9P01	27		x		
20A3P04	X	TG1093A22(WHT)	20A9P01	5		x		
20A3P04	Y	TG1093A22(BLU)	20A9P01	35		x		
20A3P04	A	TG477B22	SPLICE			x		

END 1		WIRE NO.	END 2					FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A3P04	B	TG1144B22	SPLICE			X		
20A4P01	E	TG240B22	SPLICE			X		
20A4P02	M	A1040B22	SPLICE			X		
20A5P01	S	TG1132A22	20A3P01	J		X		
20A5P01	U	TG239E20	SPLICE			X		
20A5P01	G	TG481B16	SPLICE			X		
20A5P02	C	TG491B22	SPLICE			X		
20A5P02	V	TG240A22	SPLICE			X		
20A5P03	A	TG1137A22 (WHT)	20A3P01	K		X		
20A5P03	B	TG1137A22 (BLU)	20A3P01	M		X		
20A5P03	C	TG1138A22 (WHT)	20A3P01	P		X		
20A5P03	D	TG1138A22 (BLU)	20A3P01	Q		X		
20A5P03	AA	TG1128A22 (WHT)	20A3P01	K		X		
20A5P03	BB	TG1128A22 (BLU)	20A3P01	L		X		
20A5P04	Y	TG810A22	SPLICE			X		
20A5P04	B	TG812A22	SPLICE			X		
20A5P04	C	TG813A22	SPLICE			X		
20A5P04	D	TG814A22	SPLICE			X		
20A5P04	E	TG815A22	SPLICE			X		
20A5P04	G	TG816A22	SPLICE			X		
20A6P01	V	TG209A22 (WHT)	SPLICE			X		
20A6P01	X	TG211A22 (WHT)	SPLICE			X		
20A7P01	M	TG1135A20	20A3P01	V		X		
20A7P02	H	TG1147A20	20A9P01	26		X		
20A7P02	J	TG1160A22	20A14P01	63		X		
20A7P02	N	TG1159A22	20A14P01	58		X		
20A7P02	T	TG1144A22	SPLICE			X		
20A7P02	Z	TG481A16	SPLICE			X		
20A7P02	F	TG1161A22	20A14P01	64		X		
20A7P03	S	TG1162A22 (WHT)	20A14P01	60		X		
20A7P03	Y	TG1162A22 (BLU)	20A14P01	59		X		
20A9P01	5	TG1093A22 (WHT)	20A3P04	X		X		
20A9P01	9	TG1087A22 (WHT)	20A3P04	E		X		
20A9P01	10	TG1087A22 (BLU)	20A3P04	F		X		
20A9P01	11	TG1087A22 (ORN)	20A3P04	G		X		
20A9P01	26	TG1147A20	20A7P02	H		X		
20A9P01	27	TG1091A22 (BLU)	20A3P04	V		X		
20A9P01	30	TG1097D20	SPLICE			X		
20A9P01	32	TG1148A20N	GND			X		
20A9P01	33	TG1146A20	END CAP			X		
20A9P01	34	TG1097C20	SPLICE			X		
20A9P01	35	TG1093A22 (BLU)	20A3P04	Y		X		
20A9P01	36	TG1099A22	20A14P01	19		X		
20A9P01	37	TG1101A22	20A14P01	45		X		
20A9P01	38	TG1169A20N	SPLICE			X		
20A9P01	39	TG1102A22	20A14P01	65		X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A9P01	40	TG1103A22	20A14P01	66		X		
20A9P01	41	TG1085A20(WHT)	SPLICE			X		
20A9P01	42	TG1085A20(BLU)	SPLICE			X		
20A9P01	43	TG1086A20(WHT)	SPLICE			X		
20A9P01	44	TG1086A20(BLU)	SPLICE			X		
20A9P01	45	TG1091A22(WHT)	20A3P04	U		X		
20A9P01	47	TG429E22(WHT)	SPLICE			X		
20A9P01	48	TG429E22(BLU)	SPLICE			X		
20A9P01	49	TG1100A22	20A14P01	27		X		
20A9P01	50	TG1095A22	END CAP			X		
20A9P01	53	TG1170A20N	SPLICE			X		
20A9P01	54	TG1171A20N	SPLICE			X		
20A9P01	55	TG1097B20	SPLICE			X		
20A9P02	A	TG1149A20(WHT)	SPLICE			X		
20A9P02	B	TG11\$3A20	END CAP			X		
20A9P02	C	TG1149A20(BLU)	SPLICE			X		
20A9P02	D	TG1050A20(WHT)	SPLICE			X		
20A9P02	E	TG1038A20(WHT)	SPLICE			X		
20A9P02	F	TG1038A20(BLU)	SPLICE			X		
20A9P02	G	TG1038A20(ORN)	SPLICE			X		
20A9P02	H	TG1150A20(WHT)	SPLICE			X		
20A9P02	K	TG1033A20(WHT)	SPLICE			X		
20A9P02	L	TG1036A22(BLU)	20A1P07	47		X		
20A9P02	M	TG1041A20(WHT)	SPLICE			X		
20A9P02	N	TG1039A20(WHT)	SPLICE			X		
20A9P02	P	TG1039A20(BLU)	SPLICE			X		
20A9P02	R	TG1039A20(ORN)	SPLICE			X		
20A9P02	S	TG1151A20(WHT)	SPLICE			X		
20A9P02	T	TG1151A20(BLU)	SPLICE			X		
20A9P02	U	TG1152A22(WHT)	20A1P08	8		X		
20A9P02	V	TG1152A22(BLU)	20A1P08	9		X		
20A9P02	W	TG1150A20(BLU)	SPLICE			X		
20A9P02	X	TG1037A20(WHT)	SPLICE			X		
20A9P02	Y	TG1037A20(BLU)	SPLICE			X		
20A9P02	Z	TG1047A22(ORN)	20A1P08	43		X		
20A9P02	<u>A</u>	TG1046A22(WHT)	20A1P08	44		X		
20A9P02	<u>B</u>	TG1046A22(BLU)	20A1P08	45		X		
20A9P02	<u>C</u>	TG1046A22(ORN)	20A1P08	46		X		
20A9P02	<u>E</u>	TG1033A20(BLU)	SPLICE			X		
20A9P02	<u>F</u>	TG1033A20(ORN)	SPLICE			X		
20A9P02	<u>G</u>	TG1042C20(BLU)	SPLICE			X		
20A9P02	<u>H</u>	TG1034A20(WHT)	SPLICE			X		
20A9P02	<u>I</u>	TG1050A20(BLU)	SPLICE			X		
20A9P02	<u>M</u>	TG1048A20(ORN)	SPLICE			X		
20A9P02	<u>N</u>	TG1048A20(WHT)	SPLICE			X		
20A9P02	<u>P</u>	TG1048A20(BLU)	SPLICE			X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
20A9P02	<u>Q</u>	TG1035A20(WHT)	SPLICE			X		
20A9P02	<u>R</u>	TG1035A20(BLU)	SPLICE			X		
20A9P02	<u>S</u>	TG1047A22(WHT)	20A1P08	41		X		
20A9P02	<u>T</u>	TG1047A22(BLU)	20A1P08	42		X		
20A9P02	<u>V</u>	TG1042C20(WHT)	SPLICE			X		
20A9P02	<u>W</u>	TG1049A20(WHT)	SPLICE			X		
20A9P02	<u>X</u>	TG1052A20(WHT)	SPLICE			X		
20A9P02	<u>Z</u>	TG10340A20(BLU)	SPLICE			X		
20A9P02	AA	TG1051A20(WHT)	SPLICE			X		
20A9P02	BB	TG1052A20(BLU)	SPLICE			X		
20A9P02	CC	TG1036A22(WHT)	20A1P07	48		X		
20A9P02	DD	TG1049A20(BLU)	SPLICE			X		
20A9P02	EE	TG1035A20(ORN)	SPLICE			X		
20A9P02	FF	TG1041A20(BLU)	SPLICE			X		
20A9P02	GG	TG1051A20(ORN)	SPLICE			X		
20A9P02	HH	TG1051A20(BLU)	SPLICE			X		
20CB6		TG1097A16	SPLICE			X		
20CB6		TG1178A16	2K4	A2				
20J2	W	TG456A22(WHT)	20A3P01	<u>W</u>				
20J2	X	TG456A22(BLU)	20A3P01	<u>X</u>				
20J327	B	TG1175B22	END CAP			X		
20J327	L	TG1139A22(WHT)	20A3P01	<u>T</u>		X		
20J327	M	TG1139A22(BLU)	20A3P01	<u>U</u>		X		
20J327	T	TG53B22	20A3P01	<u>G</u>				
20J327	U	TG55B22	20A3P01	H				
20J327	GG	TG3B22	SPLICE			X		
20P327	D	TG1174A22	20A14P01	41		X		
20P327	F	TG1173A22	20A14P01	40		X		
20P327	GG	TG3A22	20A1J09	G		X		
20J330	D	TG810B22	SPLICE			X		
20J330	H	TG812B22	SPLICE			X		
20J330	J	TG813B22	SPLICE			X		
20J330	K	TG814B22	SPLICE			X		
20J330	L	TG815B22	SPLICE			X		
20J330	X	TG816B22	SPLICE				X	
20J332	A	TG1141C22	SPLICE			X		
20J332	B	TG1142C22	SPLICE			X		
20J332	K	TG93B22(BLU)	SPLICE			X		
20J332	L	TG93B22(ORN)	SPLICE			X		
20J332	M	TG93B22(WHT)	SPLICE			X		
20J332	DD	TG1176A20N	GND			X		
SPLICE		L225AA20	CTR FLD LT			X		
3400DS1P1	70	ASN128-1D22(WHT)	3400TB1	12E		X		
3400DS1P1	71	ASN128-1D22(BLU)	3400TB1	12B		X		
3400DS1P1	72	ASN128-1D22(ORN)	3400TB1	12G		X		

END 1		WIRE NO.	END 2		MODEL EFFECTIVITY			FIGURE NUMBER
REF. DES.	PIN		REF. DES.	PIN	E	M	P	
3400TB1	12B	ASN128-1D22(BLU)	3400DS1P1	71		x		
3400TB1	12C	ASN128-1E22(BLU)	20A1P08	18		x		
3400TB1	12E	ASN128-1D22(WHT)	3400DS1P1	70		x		
3400TB1	12G	ASN128-1D22(ORN)	3400DS1P1	72		x		
3400TB1	12H	ASN128-1E22(ORN)	20A1P08	17		x		
3400TB1	12J	ASN128-1E22(WHT)	20A1P08	16		x		

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DATE

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TM 55-1520-236-23-3

DATE

8 May 1980

TITLE

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BE EXACT... PIN-POINT WHERE IT IS

PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.
----------	------------	------------	-----------

6

2-1
a

81

4-3

125

line 20

SAMPLE

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

In line 6 of paragraph 2-1a the manual states the engine has 6 cylinders. The engine on my set only has 4 cylinders. Change the manual to show 4 cylinders.

Callout 16 on figure 4-3 is pointing at a bolt. In the key to fig. 4-3, item 16 is called a skim. Please correct one or the other.

I ordered a gasket, item 19 on figure B-16 by NSN 2910-00-762-3001. I got a gasket but it doesn't fit. Supply says I got what I ordered, so the NSN is wrong. Please give me a good NSN.

TYPED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER

JOHN DOE, PFC (268) 317-7111

SIGN HERE:

John Doe

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The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigrams = .035 ounce
 1 dekagram = 10 grams = .35 ounce
 1 hectogram = 10 dekagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 38.82 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	To	Multiply by	To change	To	Multiply by
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	grams	gallons	.264
pounds	kilograms	.454	liters	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.365	metric tons	short tons	1.102
pound-inches	newton-meters	.11375			

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
----	------------------------	----------------------------	---------------------	----

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