

Field Feature Bill of Material (FFBM)

PN 03F5077

INSTALLATION of a LIB2 Board Positions 3/4 (FC 4903) in IBM 3745 Models 170 and 17A

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Reviewed by: B. Kelly

Before Installation (steps 1-8)

1.0 Machines Affected

3745 Models 170 and 17A.

2.0 Related BMs and ECs

None.

3.0 BMs to be Installed

Note: Review each numbered item in this section to determine your needs.

- 03F5077 Installation Instructions.
- 03F5075 LIB2 asm position 3
- and/or 03F5078 LIB2 asm position 4

4.0 Install one of the followings BMs

- 03F2599 Homologation label France only
- 03F5096 Homologation label Italy only
- 03F5097 Homologation label Norway only

5.0 Preparation

- Familiarize yourself with the purpose and details of these installation instructions before negotiating machine time with the customer.
- 2. Check all the items and count parts listed on the BM(s) to be installed to determine whether all parts were received.
- After the LIC board hardware installation, you can install a Line Adapter (TSS) and/or a LIC feature before power on.

4. See the *HONE Configurator sheet* to determine in which position you have to install the LIB2.

Installation sequence:

- a. Position 4, top right (01L-A1)
- b. Position 3, bottom right (01L-A2).

6.0 Program Update

None.

7.0 Purpose and Description

7.1 Purpose

Install a LIB2 feature.

7.2 Description

Install a board LIB type 2 with associated SMUXA/B cards.

8.0 Installation Time

FFB/M Installed	Machine Hours	System Hours	
03F5075	0.8	0.0	
and/or 03F5078	0.8	0.0	
Test Time	0.5		
Total Time	1.3		

9.0 Tools/Materials Required

ESD kit (PN 6428316).

3	7	45	5
F	F	В	M

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EC A47495
EC A47495 03MAY89



Installation (steps 9-11)

10.0 Safety

- · The installation must be performed offline.
- Review the Safety Notices and the Safety Inspection Procedures located at the beginning of the 3745 Maintenance Information Procedures (MIP) manual (SY33-2054).

11.0 Details of Installation

Before the installation, ask the customer:

- To set all the lines and channel addresses offline for this controller.
 - To deactivate all resources of the 3746 Model 900, if attached.
- For the maintenance password.
- To logoff the console (3745-170) or the Service Processor (SP) (3745-17A), if not already done.

11.1 Checking

11.1.1 From the 3745 Control Panel

- 1. Check that **Power Control** displays 3.
- 2. If it does not, record the value __. Set the Power Control value to 3. Press the Validate key.
 - If you are installing a LIB2 in a Model 17A, go to Step 11.1.3, "From the Service Processor."
 - · Otherwise, continue.

11.1.2 From the 3745-170 Console

- __ 1. From the CA INTERFACE DISPLAY screen, record Enabled channel adapters.

 Then, disable all channel adapters.
- 2. Wait for Interface Status Disabled for all CAs. Press F4.
- ___ 3. Enter the maintenance password, press Send
- __ 4. If the CCU is running, enter **RST** to reset the CCU.

The MOSS goes in MOSS ALONE state.

 Go to Step 11.2, "Hardware Installation" on page 5.

11.1.3 From the Service Processor

- 1. On the MOSS-E View window, click on Program.
- 2. Click on LOG ON MOSS-E.
- __ 3. Enter the maintenance password, press Enter.
- __ 4. On the **MOSS-E View** window, double click on the icon of the identified 3745.
- __ 5. On the **3745 Menu** window, double click on **MOSS Console**.
- ___ 6. When **MOSS Console** screen is displayed, enter **CID**, press **Enter**.
- 7. From the CA INTERF DISPLAY screen, record Enabled channel adapters. Then, disable all channel adapters.
 - 8. When all CAs are DISABLED, press F1.
- ___ 9. If CCU running, enter **RST** to reset the

The MOSS goes in MOSS ALONE state.

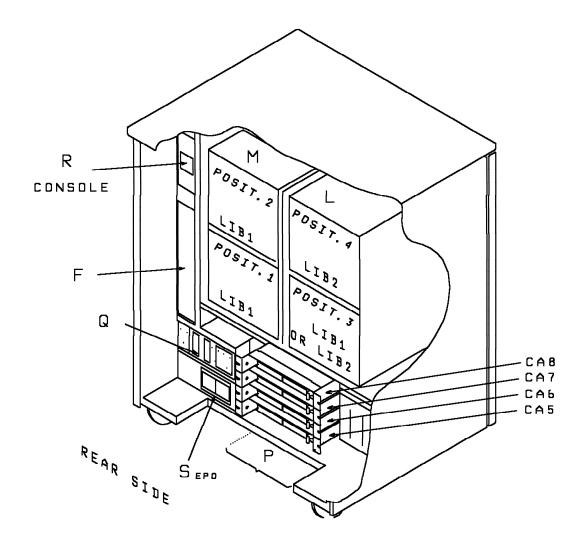
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11.2 Hardware Installation

Warning: Follow the existing ESD procedures when handling logic parts.

- __ 1. Open the rear system cover.
- ___ 2. Visually, check that there is no LIB2 installed where you have to install this feature.



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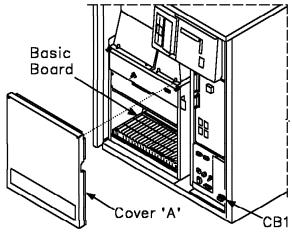
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EC A97870	EC C38773	Ī
21NOV89	03FEB94	



11.2.1 Power OFF

- __ 1. From the 3745 control panel, press the Power OFF key.
- 2. Open the front system cover and switch off CB1.

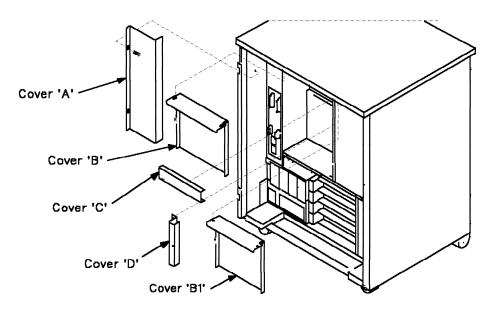


Front View

- If you are installing a LIB2 in position 3, go to section 11.2.3, "Installation of a LIB2 in Position 3 (01L-A2)" on page 9.
- If you are installing a LIB2 in position 4, continue.

11.2.2 Installation of a LIB2 in position 4 (01L-A1)

- 1. From the REAR of the machine, remove cover 'A' with two screws and cover 'B1' with two screws.
- 2. If there is no LIB1 board in 01M-A1 position, you have to remove cover 'B' with two screws.
- 3. Remove cover 'C' (over raceway) with two screws.



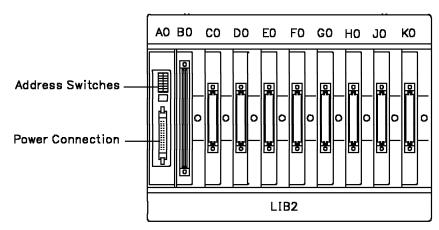
3745	PN 03F507
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EC A47495	EC A73579	EC A97870	EC C38773	
03MAY89	01SEP89	21NOV89	03FEB94	

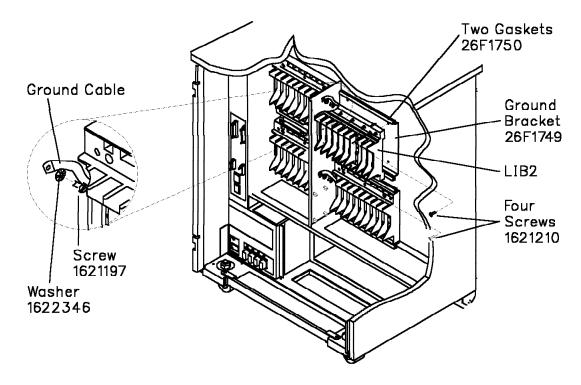


__ 4. Set the board address as follows:

LIB2	Switch Positions						
Position	7	6	5	4	3	2	1
01L-A1	0	0	0	0	0	1	1



- ___ 5. Stick two gaskets (PN 26F1750) on top and bottom of ground bracket (PN 26F1749) (instead of these two PNs you may have PN asm 03f4623).
 - 6. Install the bracket and LIB2 asm (top right position) with four screws (PN 1621210).
- ____ 7. Connect the ground cable on the frame using screw (PN 1621197) and washer (PN 1622346).



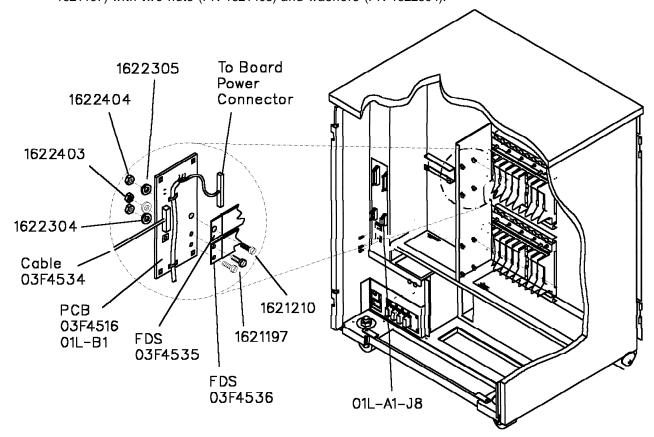
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EC A47495 EC A739 03MAY89 01SEP89

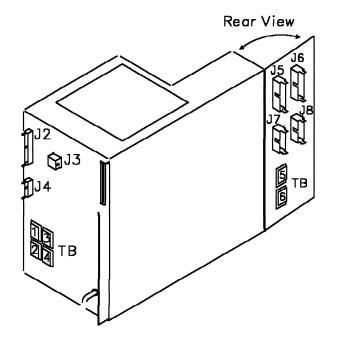


- 8. On Printed Circuit Board (PCB) (03F4516) install the first FDS cable (PN 03F4535) in position 01L-B1 TB1 using screw (PN 1621210) with nut (PN 1622404) and washer (PN 1622305).
- Install the second FDS cable (PN 03F4536) in position 01L-B2 TB2 using two screws (PN 1621197) with two nuts (PN 1621403) and washers (PN 1622304).



- __ 10. Install Printed Circuit Board (PCB) (PN 03F4516) securing it with the four standoffs already installed on the frame.
- __ 11. Route the two FDS cables towards the rear of PS1.
- 12. Connect one end of the cable (03F4534) in the board power connector (01L-B1J1) and route the other end towards the MOSS board position 01A.
- 13. Connect other end of first FDS cable in position 01F-A0 TB5 with screw (PN 1621210).
- __ 14. Connect other end of second FDS cable in position 01F-A0 TB6 with two screws (PN 1621197).

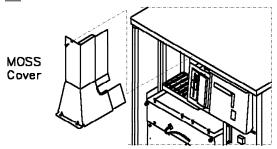
Note: Two FDS may be already installed in these positions.



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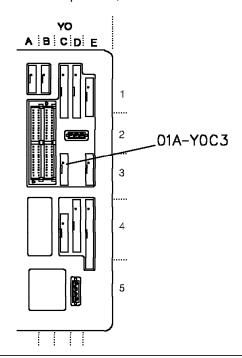
___ 15. Remove the MOSS cover.



- ___ 16. Plug cable (PN 03F4534) in position 01A-Y0C3.
- __ 17. Install grid (PN 03F4747) with two screws (PN 1621210).
- __ 18. Plug SMUXB card in position B0 of the board and plug eight DUMMY LICs (PN 65X8446) from position C0 to K0. Tighten the front screws.

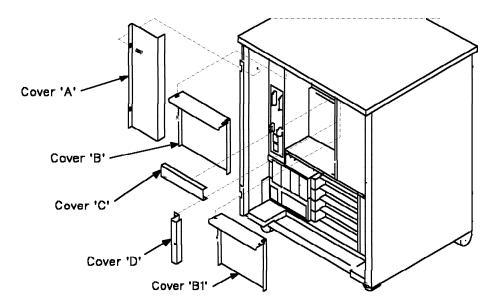
Notes:

 If you have to install TSS via others MESs, you can perform their installation at this time. You may have spare scanner(s) installed on the machine with MUX cable(s) saved in the right side of basic board in front of the machine. If present, connect them.



- If you have to install a LIB2 in position 3, go to 11.2.3, "Installation of a LIB2 in Position 3 (01L-A2)."
- Otherwise, go to section 11.2.4, "Homologation Label" on page 13

11.2.3 Installation of a LIB2 in Position 3 (01L-A2)



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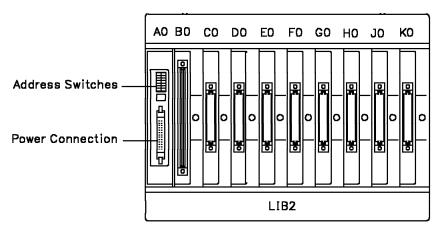
EC A73579 01SEP89 EC A97870 21NOV89

EC C38773 03FEB94

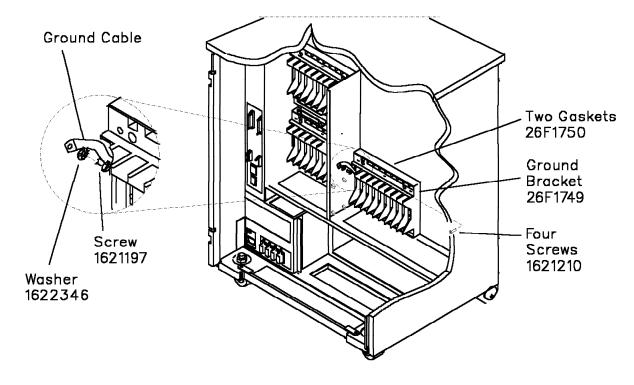


- ___ 1. From the REAR of the machine, remove cover 'A' with two screws and cover 'B' with two screws
- 2. If there is no LIB1 board in 01M-A1 position, you have to remove cover 'B' with two screws.
 - 3. Remove cover 'C' (over raceway) with two screws.
 - 4. Set the board address as follows:

LIB2	Switch Positions						
Position	7	6	5	4	3	2	1
01M-A2	0	0	0	0	0	1	0



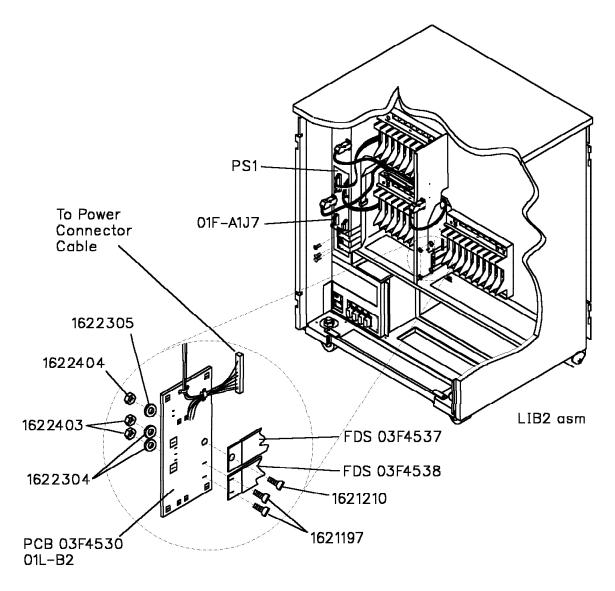
- 5. Stick two gaskets (PN 26F1750) on top and bottom of ground bracket (PN 26F1749) (instead of these two PNs you may have PN asm 03F4623).
 - 6. Install the bracket and LIB2 asm (bottom right position) with four screws (PN 1621210).
- ____ 7. Connect the ground cable on the frame using screw (PN 1621197) and washer (PN 1622346).



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- 8. On Printed Circuit Board (PCB) (03F4530) install the first FDS cable (PN 03F4537) in position 01L-B2 TB1 using screw (PN 1621210) with nut (PN 1622404) and washer (PN 1622305).
 - 9. Install the second FDS cable (PN 03F4538) in position 01L-B2 TB2 using two screws (PN 1621197) with two nuts (PN 1621403) and washers (PN 1622304).



- 10. Install Printed Circuit Board (PCB) (PN 03F4530) securing it with the four standoffs already installed on the frame.
- 11. Route the two FDS cables towards the rear of PS1.
- __ 12. Connect one end of the cable (03F4534) in the board power connector (01L-B2J1) and route the other end towards the rear of PS1 and connect it in 01F-A1J8 position.

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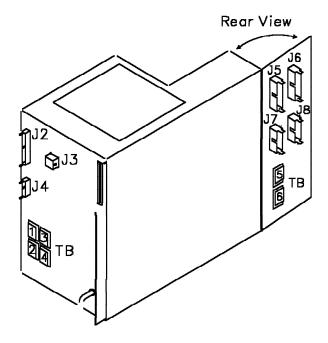
PN	03	F5077
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EC A47495	EC A73579
03MAY89	01SEP89

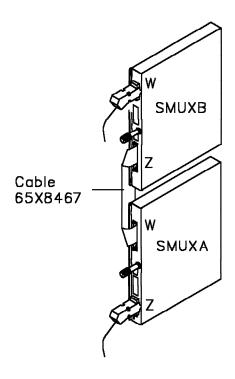
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- __ 13. Connect other end of first FDS cable in position 01F-A0 TB5 with screw (PN 1621210).
- __ 14. Connect other end of second FDS cable in position 01F-A0 TB6 with two screws (PN 1621197).



- __ 15. Plug SMUXA card in position B0 of the board and plug eight DUMMY LICs (PN 65X8446) from position C0 to K0. Tighten the front screws.
- __ 16. Remove the cover over the SMUXB card installed in LIB2 board position 4 and plug the cable (PN 65X8467) between SMUXA and SMUXB cards.



17. Reinstall SMUXB cover.

Notes:

- a. If you have to install TSS via others MESs, you can perform their installation at this time.
- You may have spare scanner(s)
 installed on the machine with MUX
 cable(s) saved in the right side of
 basic board in front of the machine.
 If present, connect them.

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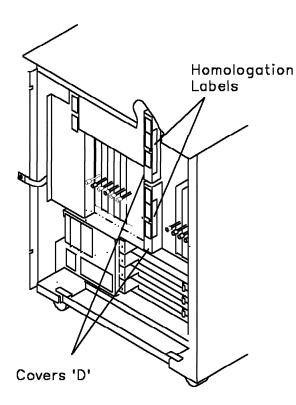
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11.2.4 Homologation Label

- 1. Install cover 'D' (PN 03F4605) over Printed Circuit Board (PCB) and SMUXA card with two screws (PN 1621210).
- 2. For FRANCE, affix homologation label (PN 26F0300 (from FFBM PN 03F5299) on cover 'D' as shown in figure below.



- 3. Reinstall cover 'C'.
- 4. Reinstall all LIC cards removed from board positions 01M-A1/A2.
- Reinstall cover 'A'.
- __ 6. If no LIB1 in position 01M-A1, reinstall cover 'B'.

11.3 Power ON

Switch CB1 ON, and close system covers.

11.3.1 From the 3745 Control Panel

- __ 1. set the **Function** indicator to **1**. Press the **Validate** key.
- __ 2. Press the **Power ON Reset** key.

The MOSS IML is completed when **F0E** is displayed on the 3745 control panel.

- If you have installed a LIB1 in a Model 17A, go to Step 11.3.3, "From the Service Processor."
- · Otherwise, continue.

11.3.2 From the 3745-170 Console

- 1. When the CA INTERFACE DISPLAY screen is displayed, press F4.
- 2. Enter the maintenance password, press Send.
 - · Go to Step 12.1, "Save Files."

11.3.3 From the Service Processor

- __ 1. Double click on the 3745 icon when it becomes PURPLE.
- __ 2. When the **3745 Menu** window is displayed, double click on **MOSS console**.

Wait for Function Selection Rules screen.

12.0 Test Procedures

12.1 Save Files

If you have installed additional features (LSS/LIC), refer to their Installation Instructions for files update.

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- If you have installed an adapter in a Model 17A, go to Step 12.3, "From the Service Processor" on page 14.
- · Otherwise, continue.

12.2 From the 3745-170 Console

Re-enable the channel adapters disabled in Step 11.1.2, "From the 3745-170 Console" on page 4.

• Go to Step 12.4, "General IPL."

12.3 From the Service Processor

- __ 1. On the **3745 Menu** window, double click on **MOSS Console**.
- __ 2. Enter CID, press Enter.
- 3. Enable the channel adapter recorded in Step 11.1.3, "From the Service Processor" on page 4. Wait until all channels are **E** in the E/D REQUEST column. Press **F1**.
- ___ 4. Enter **OFF**, press **Enter**.
- __ 5. On the **3745 Menu** window, click on **Function**. Then, click on **Exit**.
- __ 6. On the MOSS-E View window, click on Program.
- Click on LOG OFF MOSS-E.

12.4 General IPL

From the 3745 Control Panel:

- 1. Set the **Power Control** indicator to its original value recorded in Step 11.1.1, "From the 3745 Control Panel" on page 4.
- 2. Set the **Function** indicator value to **0** (general IPL).
- __ 3. Press the Validate key.

The general IPL starts.

- If **FF4** is displayed on the control panel, ask the customer to load the control program.
- If the control program is loaded from the hard disk, 000 will be displayed when IPL is successful.

Note: The control program load can fail if a mismatch exists between the control program and the hardware configuration.

After Installation (steps 12-15)

13.0 Field Updating

None.

14.0 Publications Update

None.

15.0 Parts Disposition

15.1 Purchased Machines

Refer to the parts ownership matrix to determine the correct owner of removed/unused parts.

- For EMEA/APG/AG Areas, refer to Hardware and General Service Code Description.
- For Domestic Areas, return parts to the customer.

16.0 Machine Records

- Install the new MACHINE HISTORY supplied.
- Report installation and quality to existing procedures.

End of instructions.

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Table Definitions

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тото	P03F5077 SCRIPT	7	7
TATA	P03F5077 SCRIPT	10	10
IAIA	FUSI SULL SCRIFT	10	10

Headings

id	<u>File</u>	Page	References
DD	P03F5077 SCRIPT	3	5.0, Preparation
00	P03F5077 SCRIPT	4	11.1.1, From the 3745 Control Panel
NN	P03F5077 SCRIPT	4	11.1.2, From the 3745-170 Console
SP1	P03F5077 SCRIPT	4	11.1.3, From the Service Processor
OFF	P03F5077 SCRIPT	5	4, 14 11.2, Hardware Installation
POS3	P03F5077 SCRIPT	9	11.2.3, Installation of a LIB2 in Position 3 (01L-A2)
НОМО	P03F5077 SCRIPT	13	6, 9 11.2.4, Homologation Label
SP3	P03F5077 SCRIPT	13	9 11.3.3, From the Service Processor
SF	P03F5077 SCRIPT	13	13 12.1, Save Files
SP4	P03F5077 SCRIPT	14	13 12.3, From the Service Processor
IPL	P03F5077 SCRIPT	14	14 12.4, General IPL
PP	AFTRINS2	14	14 After Installation (steps 12-15)

Processing Options

Runtime values:

74.400.	
Document fileid	. P03F5077 SCRIPT
Document type	. PNCDOC
Document style	FBII
Profile	
Service Level	
SCRIPT/VS Release	. 3.2.1
Date	
Time	
Device	3820A
Number of Passes	
Index	
SYSVAR G	. INLINE
SYSVAR P	3820
SYSVAR R	
SYSVAR U	
SYSVAR W	. XREF

Formatting values used:

Annotation	NO
Cross reference listing	
Cross reference head prefix only	NO
Dialog	
Duplex	

DVCF conditions file	(none)
DVCF value 1	(none)
DVCF value 2	(none)
DVCF value 3	(none)
DVCF value 4	(none)
DVCF value 5	(none)
DVCF value 6	(none)
DVCF value 7	(none)
DVCF value 8	(none)
DVCF value 9	(none)
Explode	ΝO
Figure list on new page	YES
Figure/table number separation	YES
Folio-by-chapter	NO
Head 0 body text	(none)
Head 1 body text	(none)
Hyphenation	ÝES
Justification	NO
Language	ENGL
Layout	2
Leader dots	YES
Master index	(none)
Partial TOC (maximum level)	4
Partial TOC (new page after)	INLINE
Print example id's	NO
Print cross reference page numbers	YES
Process value	3820
Punctuation move characters	0020
Read cross-reference file	., XRFF
Running heading/footing rule	NONE
Running heading/footing ruleShow index entries	NO
Table of Contents (maximum level)	3
	YES
Table list on new page	CENTER
Title page (draft) alignment	XRFF
Write cross-reference file	VKEL

Imbed Trace

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Page 14 AFTRINS2