

COMPONENT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS LIST

CONTROL STAND THRUST LEVER ASSEMBLY

PART NUMBER 254A1240-1, -10, -2, -3, -4, -7, -8, -9

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Revision No. 13 Jul 01/2009

To: All holders of CONTROL STAND THRUST LEVER ASSEMBLY 76-11-07.

Attached is the current revision to this COMPONENT MAINTENANCE MANUAL

The COMPONENT MAINTENANCE MANUAL is furnished either as a printed manual, on microfilm, or digital products, or any combination of the three. This revision replaces all previous microfilm cartridges or digital products. All microfilm and digital products are reissued with all obsolete data deleted and all updated pages added.

For printed manuals, changes are indicated on the List of Effective Pages (LEP). The pages which are revised will be identified on the LEP by an R (Revised), A (Added), O (Overflow, i.e. changes to the document structure and/or page layout), or D (Deleted). Each page in the LEP is identified by Chapter-Section-Subject number, page number and page date.

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Location of Change Description of Change

76-11-07

TESTING AND FAULT

ILLUSTRATED PARTS LIST

ISOLATION

Changed the continuity from between pins 1 and 5 to pins 4 and 5.

Changed Fig. 102 to show that the wire connects to the common contact.

Changed the data in the NUMERICAL INDEX list.

Changed Usage Code.

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INTRODUCTION

1. General

- A. The instructions in this manual supply the data necessary to do the maintenance functions together with the test, fault isolation, repair, and replacement of the defective parts.
- B. This manual is divided into different parts:
 - (1) Title Page
 - (2) Transmittal Letter
 - (3) Highlights
 - (4) List of Effective Pages
 - (5) Table of Contents
 - (6) Temporary Revision & Service Bulletin Record
 - (7) Record of Revisions
 - (8) Record of Temporary Revisions
 - (9) Introduction
 - (10) Procedures & IPL Sections
- C. Components that can be repaired have a different repair number for each specified repair. To find the repair number location of a component, look in the Repair-General procedure at the beginning of the REPAIR section. The Repair-General procedure also has an explanation of the True Position Dimension symbols used.
- D. All dimensions, measures, quantities and weights included are in English units. When metric equivalents are given they will be in the parentheses that follow the English units.
- E. The introduction to the Illustrated Parts List (IPL) shows how the IPL data is used.
- F. Design changes, optional parts, configuration differences and Service Bulletin modifications may cause different part numbers. These part numbers are identified in the IPL with an alphabetical letter which is added to the end of the basic item number. This new item number is referred to as an alphavariant. Throughout the manual, IPL basic item number references also apply to alpha-variants unless shown differently.
- G. The tool reference numbers found in the individual procedures and in the Special Tools, Fixtures, and Equipment section are used to identify if a tool is a standard tool (STD-XXXX), a commercial tool (COM-XXXX), or a Special Tool (SPL-XXXX). This reference number is also used to distinguish between tools with similar names in the same procedure. These reference numbers are for use in the documentation only. They are not to be used for ordering tools.

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CONTROL STAND THRUST LEVER - DESCRIPTION AND OPERATION

1. Description

- A. The control stand thrust lever assembly is an electromechanical assembly that controls the direction and the amount of engine thrust.
- B. The thrust lever assembly is made up of a left-engine and a right-engine thrust lever assembly, which are both co-located on the control stand inside the flight deck.
- C. Each lever assembly is made from the basic parts that follow:
 - (1) A forward thrust select handle
 - (2) A reverse thrust select handle
 - (3) A number of internally mounted electric control switches
 - (4) A wire bundle assembly connector.
- D. Each lever assembly is connected at the auto-throttle brake assemblies through an output crank and a control rod assembly.

2. Operation

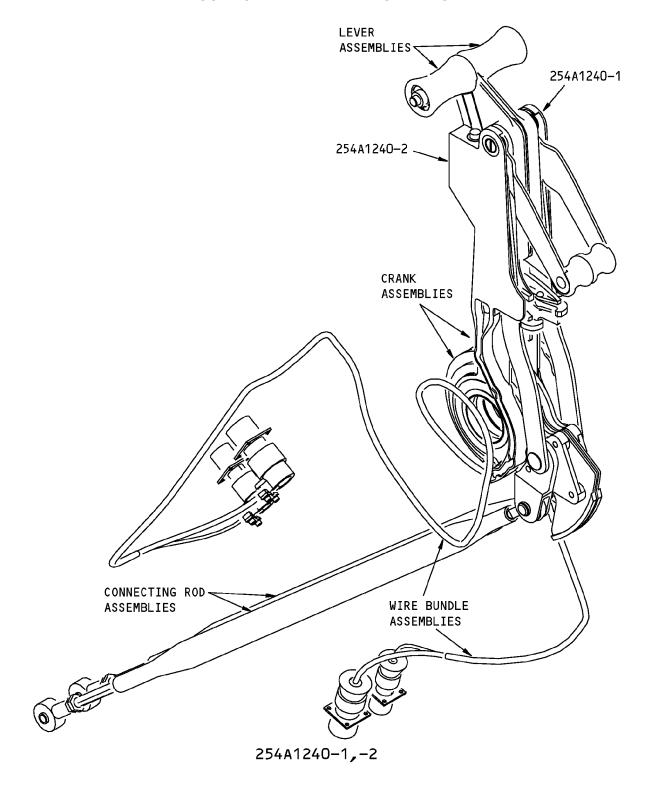
- A. During normal operation, forward thrust of the engine occurs when the thrust levers are moved to the forward position.
- B. Reverse thrust of the engine occurs when the thrust levers are moved to the aft position, which then operates the deployment of the thrust reverser and controls reverse thrust power.
- C. During forward thrust mode, the reverse thrust levers are mechanically locked in the stowed position in relation to the forward thrust lever, and cannot be moved.
- D. When the reverse thrust lever is deployed, the forward thrust lever cannot be moved independently because it is held in the idle position.

3. Leading Particulars (Approximate)

- A. Length 18 inches
- B. Width 2 inches
- C. Height 4 inches
- D. Weight 8.5 pounds

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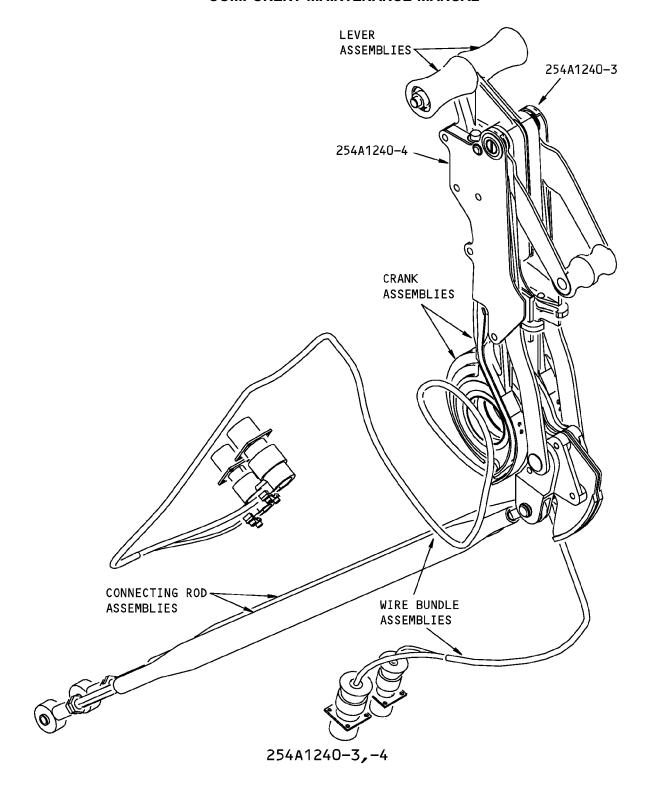


Control Stand Thrust Lever Assembly Figure 1 (Sheet 1 of 4)

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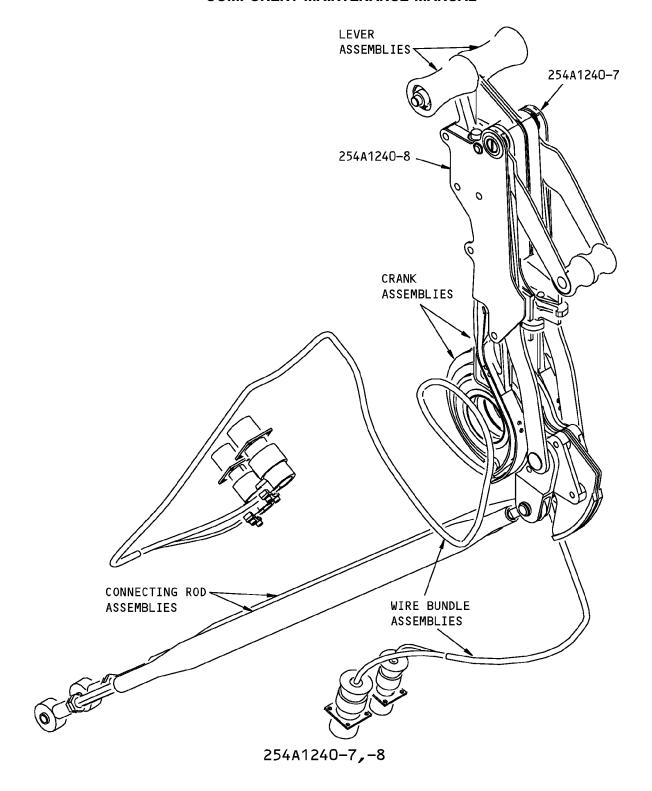


Control Stand Thrust Lever Assembly Figure 1 (Sheet 2 of 4)

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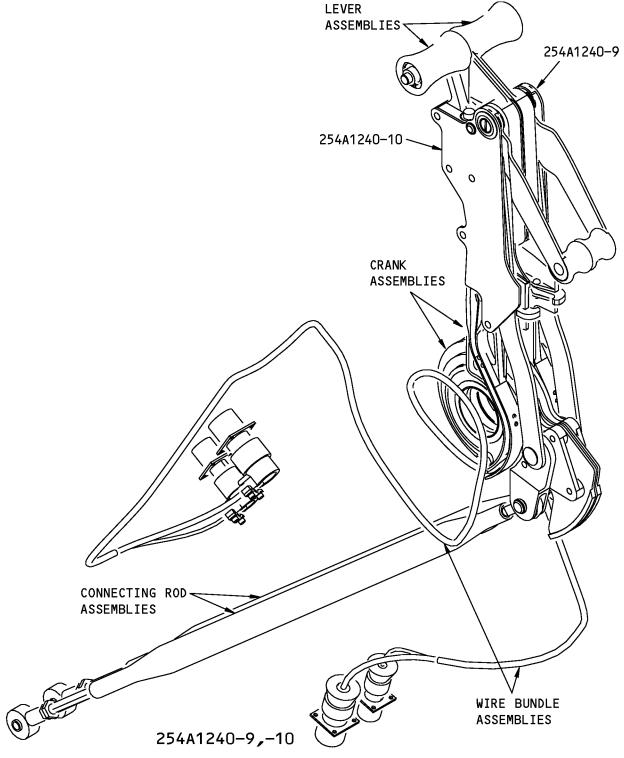


Control Stand Thrust Lever Assembly Figure 1 (Sheet 3 of 4)

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Control Stand Thrust Lever Assembly Figure 1 (Sheet 4 of 4)

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COMPONENT MAINTENANCE MANUAL

TESTING AND FAULT ISOLATION

1. General

- A. Use this procedure to test the control stand thrust lever assembly after an overhaul or for fault isolation.
- B. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 and IPL Figure 2 for the applicable item numbers.

2. Test and Fault Isolation

A. Tools/Equipment

NOTE: Equivalent substitutes may be used.

| Reference | Description |
|-----------|--|
| SPL-706 | Protractor - Thrust Reverser Levers, Digital Readout (Part #: G76002-15, Supplier: 81205) (Opt Part #: G76002-14, Supplier: 81205) |
| SPL-2410 | Adapter - Protractor - Thrust Reverser Levers, Digital Readout (Part #: G76002-15, Supplier: 81205) (Opt Part #: G76002-14, Supplier: 81205) |

B. Procedure

- (1) Do an adjustment test of the control stand thrust lever assembly (1, 5).
 - (a) Attach thrust reverser levers, digital readout protractor, SPL-706 (G76002-15) or protractor adapter, SPL-2410 (TEFT1U7834PR0-1) to the reverse lever (60, 65). See TESTING AND FAULT ISOLATION, Figure 101.
 - (b) Move the reverse lever (60, 65) between 0 and 16 degrees of travel.
 - (c) Adjust the nut assembly (205) to get continuity between pin 1 and pin 4 of connector D10171J (for 254A1240-1, -3, -7, -9) or D10173J (for 254A1240-2, -4, -8, -10) for all values of the reverse lever (60, 65) travel between 0 and 16 degrees. See TESTING AND FAULT ISOLATION, Figure 102.
 - **NOTE**: The switch changes state between 16 and 19 degrees of travel of the reverse lever (60, 65).
 - (d) Move the reverse lever (60, 65) from 19 to 135 degrees. Make sure there is continuity between pin 4 and pin 5 of connector D10171J or D10173J for all values of the reverse lever (60, 65) travel between 19 and 135 degrees.
 - **NOTE**: The protractor adapter, SPL-2410 is not accurate on readings more than 90 degrees. If the switch maintains continuity to the end of travel of the reverse lever at 135 degrees, it operates correctly.
 - (e) Put the nut (IPL Figure 1, 220B; IPL Figure 2, 220) against the nut assembly (205) and tighten the nut to 6-8 pound-inches.
 - (f) Remove the reverse lever from the control stand thrust lever assembly.
- (2) Do a functional test for the autothrottle disconnect switches (S113 and S114).
 - (a) Press and release each switch independently. Make sure that each switch moves smoothly and returns to the original "Free" or "Hands Off" position.

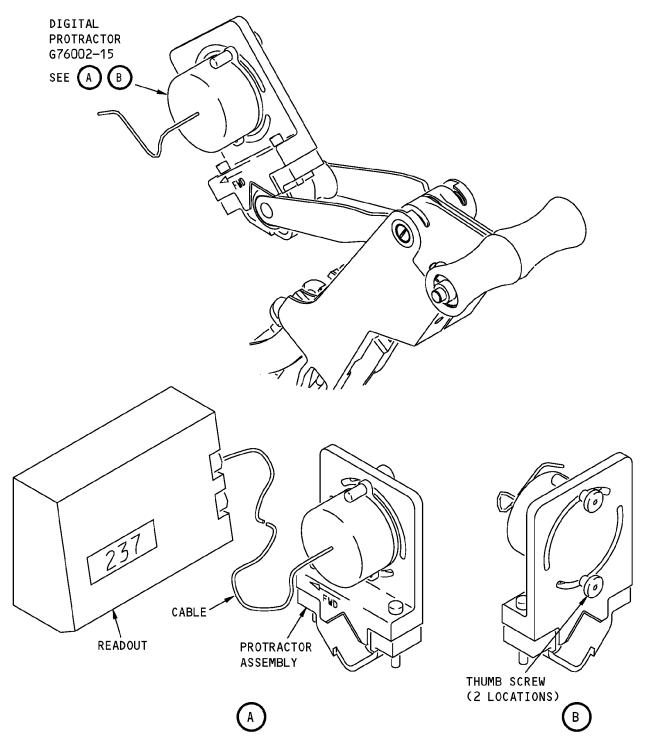
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| I I | (b) | With the two S113 and S114 switches in the "Free" position, make sure that pins 5 and 8 are closed on connectors D8313J and D8315J. Also make sure that pins 6 and 7 are open on the same connectors D8313J and D8315J. |
|--------|--------|---|
| I | (c) | Press and hold the S113 switch in the left thrust lever. Make sure that pins 5 and 8 are open and that pins 6 and 7 are closed. |
| I | (d) | Release the S113 switch and make sure that pins 5 and 8 are closed. Also make sure that pins 6 and 7 are open. |
| | (e) | Press and hold the S114 switch in the right thrust lever. Make sure that pins 5 and 8 are open. Also make sure that pins 6 and 7 are closed. |
| I | (f) | Release the S114 switch and make sure that pins 5 and 8 are closed. Also make sure pins 6 and 7 are open. |
| (| (3) Do | a functional test for the take off/go around switches (S786A/B and S787A/B). |
| I | (a) | Press and release each switch independently. Make sure that each switch moves smoothly and returns to original "Free" or "Hands Off" position. |
| 1 | (b) | With the two switches in the "Free" position, make sure that pins 1 and 2 are open for connectors D8313J and D8315J. Make sure that pins 11 and 12 are also open for the same connectors. |
| I | (c) | Press and hold the S786A/B switch in the left thrust lever. Make sure that pins 1 and 2 are closed for connectors D8313J and D8315J. |
| 1 | (d) | Release the S786A/B switch and make sure that pins 1 and 2 are open. |
| J | (e) | Press and hold the S787A/B switch and make sure that pins 11 and 12 are closed. |
| I | (f) | Release the S787A/B switch and make sure that pins 11 and 12 are open. |

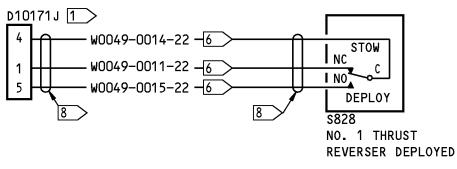


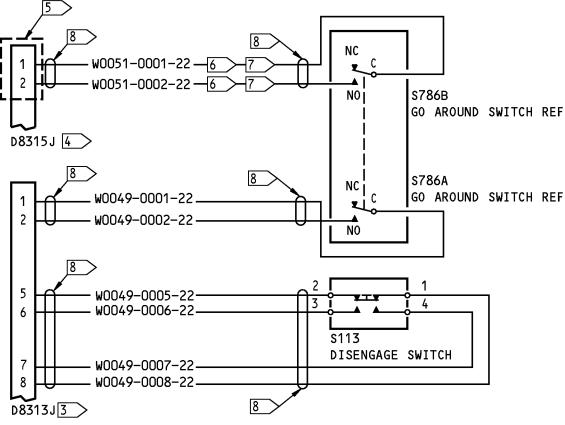


Thrust Reverser Lever Protractor Installation Figure 101

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CONTROL STAND THRUST LEVER ASSEMBLY (1)

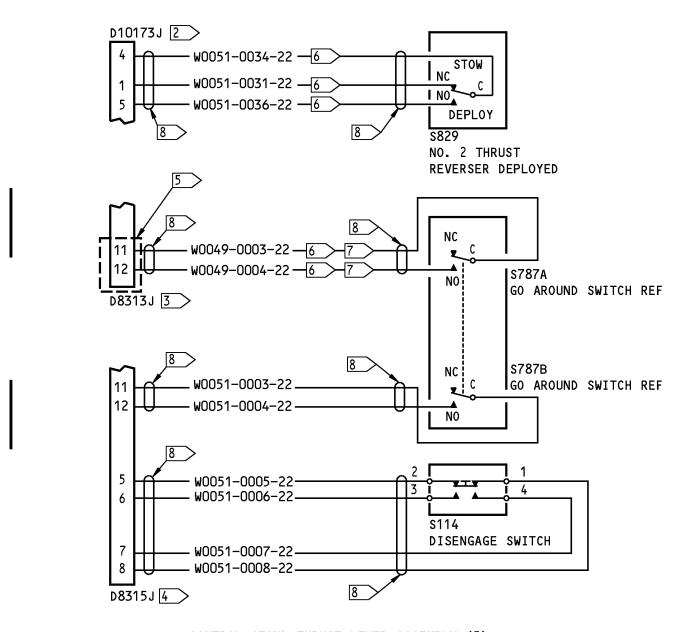
NOTE: ALL WIRES ARE BMS 13-60, TYPE 1, CLASS 1, 22 AWG

F81440 S00041008658_V3

Control Stand Thrust Lever Assembly Wiring Schematic Figure 102 (Sheet 1 of 3)

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CONTROL STAND THRUST LEVER ASSEMBLY (5)

NOTE: ALL WIRES ARE BMS 13-60, TYPE 1, CLASS 1, 22 AWG

G53146 S00041008659_V3

Control Stand Thrust Lever Assembly Wiring Schematic Figure 102 (Sheet 2 of 3)

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| 1 | MATES WITH SHIP'S CONN | ECTOR D10171P | 7 1 |
|---|--|---------------|---------------------------------------|
| 2 | MATES WITH SHIP'S CONN | ECTOR D10173P | , , , , , , , , , , , , , , , , , , , |
| 3 | MATES WITH SHIP'S CONN | ECTOR D8313P | 8 1 |
| 4 | MATES WITH SHIP'S CONN | ECTOR D8315P | ; |
| 5 | TERMINATE WIRES AS SHO HIGHER ASSEMBLY | WN IN NEXT | (|
| 6 | HEAT SHRINK SLEEVE OVE AND SOLDER JOINTS. SLE | | E |

EXTEND 0.1300 TO 0.3700 INCH OVER

THE WIRE.

- 7 HEAT SHRINK OVER TERMINALS THAT ARE NOT USED.
- 8 HEAT SHRINK SLEEVE THESE WIRES FROM SWITCHES TO BACKSHELL SURFACE OF CONNECTOR INSERT USING RT876 HEAT SHRUNK TUBING (YELLOW). LEAVE SUFFICIENT ROOM AT SWITCH FOR TRANSITION FROM BUNDLE TO SWITCH TERMINALS

G54174 S00041008660_V2

Control Stand Thrust Lever Assembly Wiring Schematic Figure 102 (Sheet 3 of 3)

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DISASSEMBLY

1. General

- A. This procedure has the data necessary to disassemble the control stand thrust lever assembly.
- B. Disassemble this component sufficiently to isolate the defects, do the necessary repairs, and put the component back to a serviceable condition.
- C. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- D. Refer to IPL Figure 1 and IPL Figure 2 for the applicable item numbers.

2. Disassembly

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

| Reference Description Speci | fication |
|---|----------|
| G02436 Lockwire - Monel (0.040 In. Dia.) NASM C40 | 120995N~ |

B. References

| Reference | Title |
|---------------|-----------------------------------|
| SOPM 20-50-02 | INSTALLATION OF SAFETYING DEVICES |

C. Procedure

<u>CAUTION:</u> THE CRANK ASSEMBLY (FIG. 1, 365, 370; FIG. 2, 370, 375) IS ROLLER SWAGED ON THE LEVER ASSEMBLY (FIG.1, 270, 275; FIG. 2, 280, 285). DO NOT REMOVE THE BEARING (FIG. 1, 395; FIG. 2, 400).

- (1) Use standard industry procedures and the steps given below to disassemble this component.
 - NOTE: Do not remove the wire bundle assembly unless replacement is necessary.
- (2) Remove the nut (IPL Figure 1, 475; IPL Figure 2, 470), washers (IPL Figure 1, 460, 465; IPL Figure 2, 455A, 460), bushing (IPL Figure 1, 470; IPL Figure 2, 465), bolt (IPL Figure 1, 455; IPL Figure 2, 450) and the control rod assembly (IPL Figure 1, 480; IPL Figure 2, 475) from the crank assembly (IPL Figure 1, 365, 370; IPL Figure 2, 370, 375).
 - **NOTE**: Do not disassemble the crank assembly (IPL Figure 1, 365, 370; IPL Figure 2, 370, 375) unless repair or replacement is necessary.
- (3) Remove the screws (IPL Figure 1, 10C; IPL Figure 2, 10A) and cover (IPL Figure 1, 15, 20; IPL Figure 2, 15, 20) from the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285). Remove the cam assembly (IPL Figure 1, 40, 45; IPL Figure 2, 40, 45), screw (IPL Figure 1, 25; IPL Figure 2, 25), bearing (IPL Figure 1, 30; IPL Figure 2, 30) from the lever (IPL Figure 1, 290, 292; IPL Figure 2, 300A, 302).
 - **NOTE**: Do not remove the insert (IPL Figure 1, 50; IPL Figure 2, 50) unless replacement is necessary.
- (4) For 254A1240-3, -4, -7, -8, -9 and -10 only, remove the washer (35) from the lever assembly (IPL Figure 2, 280, 285).

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DISASSEMBLY



- (5) For 254A1240-3, -4, -7, -8, -9 and -10 only, remove the screws (IPL Figure 2, 530A, 530B) and the cover assembly (535, 540) from the lever assembly (IPL Figure 2, 280, 285).
- (6) Remove the screws (IPL Figure 1, 100; IPL Figure 2, 100) and the knob (IPL Figure 1, 105, 110; IPL Figure 2, 105, 110) from the reverse lever (IPL Figure 1, 60, 65; IPL Figure 2, 60, 65).
- (7) Turn the link (IPL Figure 1, 75, 80; IPL Figure 2, 75, 80) and the reverse lever (IPL Figure 1, 60, 65; IPL Figure 2, 60, 65) away from the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285).
- (8) Remove the lockwire, G02436 (SOPM 20-50-02), nut (IPL Figure 1, 360; IPL Figure 2, 365), washer (IPL Figure 1, 355; IPL Figure 2, 360), special bolt (IPL Figure 1, 350; IPL Figure 2, 355), link (IPL Figure 1, 75, 80; IPL Figure 2, 75, 80) and reverse lever (IPL Figure 1, 60, 65; IPL Figure 2, 60, 65) from the crank assembly (IPL Figure 1, 365, 370; IPL Figure 2, 370, 375).
 - **NOTE**: Do not disassemble the link (IPL Figure 1, 75, 80; IPL Figure 2, 75, 80) and the reverse lever assembly (IPL Figure 1, 60, 65; IPL Figure 2, 60, 65) unless repair or replacement is necessary.
- (9) Remove the screws (IPL Figure 1, 115C; IPL Figure 2, 115B) and the pin plate assembly (IPL Figure 1, 120, 125; IPL Figure 2, 120, 125) from the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285).
 - **NOTE**: Do not remove the insert (IPL Figure 1, 130; IPL Figure 2, 130) from the doubler (IPL Figure 1, 135; IPL Figure 2, 135) unless repair or replacement is necessary.
 - NOTE: Do not disassemble the doubler (IPL Figure 1, 135; IPL Figure 2, 135) from the pin plate (IPL Figure 1, 140, 142; IPL Figure 2, 140, 142) unless repair or replacement is necessary.
- (10) Remove the nut assembly (IPL Figure 1, 205; IPL Figure 2, 205), nut (IPL Figure 1, 220B; IPL Figure 2, 220), washers (IPL Figure 2, 197 if installed) and spacer (IPL Figure 1, 200; IPL Figure 2, 200) from the spring plunger (IPL Figure 1, 175; IPL Figure 2, 175).
- (11) Remove the spring plunger (IPL Figure 1, 175; IPL Figure 2, 175) and the spring (IPL Figure 1, 195; IPL Figure 2, 195) from the lever (IPL Figure 1, 165, 167; IPL Figure 2, 165, 167).
- (12) Remove the roller assembly (IPL Figure 1, 150, 155; IPL Figure 2, 150, 155), spacer (IPL Figure 1, 200; IPL Figure 2, 200), spring (IPL Figure 1, 190; IPL Figure 2, 190) and washer (IPL Figure 1, 185; IPL Figure 2, 185) from the lever (IPL Figure 1, 165, 167; IPL Figure 2, 165, 167).
 - **NOTE**: Do not disassemble the roller assembly (IPL Figure 1, 150, 155; IPL Figure 2, 150, 155) unless repair or replacement is necessary.
- (13) Remove the screws (IPL Figure 1, 250A; IPL Figure 2, 259), switch plates (IPL Figure 1, 255; IPL Figure 2, 265) and switch (IPL Figure 1, 260; IPL Figure 2, 270) from the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285).
 - NOTE: For 254A1240-1 and -2 only, do not remove the bollard (IPL Figure 1, 245) from the lever assembly (IPL Figure 1, 270, 275).
- (14) For 254A1240-3, -4, -7, -8, -9 and -10 only, do not remove the rivets (IPL Figure 2, 222) and the housing assembly (225A, 228) from the lever assembly (IPL Figure 2, 280, 285) unless repair or replacement is necessary.
- (15) Remove the two screws (IPL Figure 1, 225B; IPL Figure 2, 240A), the switch mount (IPL Figure 1, 230, 235; IPL Figure 2, 245, 250), and the switch (IPL Figure 1, 240; IPL Figure 2, 255) from the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285).

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- (16) Do not remove the rivet (IPL Figure 1, 85; IPL Figure 2, 85), washer (IPL Figure 1, 90; IPL Figure 2, 90), and the pawl (IPL Figure 1, 95; IPL Figure 2, 95) unless repair or replacement is necessary.
- (17) Do not remove the bearings (IPL Figure 1, 310; IPL Figure 2, 320) or the clamp-up spacer (IPL Figure 1, 305; IPL Figure 2, 315) from the crank assembly (IPL Figure 1, 365, 370; IPL Figure 2, 370, 375) unless repair or replacement is necessary.

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CLEANING

1. General

- A. This procedure has the data necessary to clean the control stand thrust lever assembly.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.

2. Cleaning

A. References

| Reference | Title |
|---------------|-----------------------------|
| SOPM 20-30-03 | GENERAL CLEANING PROCEDURES |

B. Procedure

(1) Use standard industry procedures and refer to SOPM 20-30-03 to clean all parts.

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CLEANING Page 401 Mar 01/2006



CHECK

1. General

- A. This procedure has the data necessary to find defects in the material of the specified parts.
- B. Refer to FITS AND CLEARANCES for the design dimension and wear limits.
- C. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- D. Refer to IPL Figure 1 and IPL Figure 2 for the applicable item numbers.

2. Check

A. References

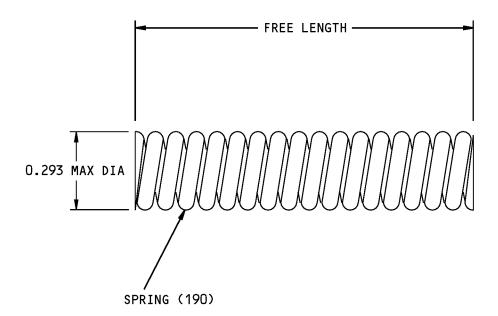
| Reference | Title | |
|---------------|---------------------------------|--|
| SOPM 20-20-01 | MAGNETIC PARTICLE INSPECTION | |
| SOPM 20-20-02 | PENETRANT METHODS OF INSPECTION | |

B. Procedure

- (1) Use standard industry procedures to do a visual check of all the parts for defects. Do the penetrant or magnetic particle check if the visual check shows possible damage or if you suspect possible damage on the parts listed below:
- (2) Do a magnetic particle check, Class B, (SOPM 20-20-01) of these parts:
 - (a) Pawl (IPL Figure 1, 95; IPL Figure 2, 95)
 - (b) Pin Plate (IPL Figure 1, 140; IPL Figure 2, 140)
 - (c) Dowel (IPL Figure 1, 145; IPL Figure 2, 145)
 - (d) Pin (IPL Figure 1, 160; IPL Figure 2, 160)
 - (e) Roller (IPL Figure 1, 170; IPL Figure 2, 170)
 - (f) Cam (IPL Figure 1, 380; IPL Figure 2, 385)
 - (g) Fitting (IPL Figure 1, 515; IPL Figure 2, 510)
 - (h) Spring (IPL Figure 1, 195; IPL Figure 2, 195)
 - (i) Housing (IPL Figure 2, 235A, 237)
- (3) Do a magnetic particle check, Class C, (SOPM 20-20-01) of these parts:
 - (a) Switch Mount (IPL Figure 1, 230, 235; IPL Figure 2, 252, 253)
- (4) Do a penetrant check (SOPM 20-20-02) of these parts:
 - (a) Cover (IPL Figure 1, 15, 20; IPL Figure 2, 15, 20)
 - (b) Bearing (IPL Figure 1, 30; IPL Figure 2, 30)
 - (c) Lever (IPL Figure 1, 165; IPL Figure 2, 165)
 - (d) Nut (IPL Figure 1, 215; IPL Figure 2, 215)
 - (e) Rod End (IPL Figure 1, 500; IPL Figure 2, 495)
- (5) Do a spring displacement check (CHECK, Figure 501).
 - (a) Spring (IPL Figure 1, 190; IPL Figure 2, 190)

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| ITEM NO. | FREE LENGTH | TEST LENGTH | PERMITTED LOAD |
|------------------|-------------|----------------|------------------------------|
| IPL FIG. 1 AND 2 | (INCHES) | (INCHES) | LIMIT (POUNDS) |
| 190 | 1.554 | 1.093 1.300 | 24.75-30.25 13.630-16.650 |



ALL DIMENSIONS ARE IN INCHES

69-73827-1 Spring Check Details Figure 501

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Jul 01/2007



REPAIR

1. General

A. Instructions for repair, refinish, and replacement of the specified subassembly parts are included in each REPAIR when applicable:

Table 601:

| PART NUMBER | NAME | REPAIR |
|-------------|-------------------------|----------|
| _ | REFINISH OF OTHER PARTS | 1-1 |
| 250N2004 | CONTROL ROD ASSEMBLY | 2-1, 2-2 |
| 254A1242 | CRANK ASSEMBLY | 3-1 |
| 254A1243 | CRANK | 3-2 |
| 254A1244 | CAM | 3-3 |
| 254A1246 | RETAINER | 3-4 |
| 65C37366 | LEVER ASSEMBLY | 4-1, 4-2 |
| 254A1247 | LEVER ASSEMBLY | 5-1, 5-2 |
| 254A1253 | COVER ASSEMBLY | 6-1 |

2. <u>Dimensioning Symbols</u>

A. Standard True Position Dimensioning Symbols that are given in the applicable repair procedures are shown in REPAIR-GENERAL, Figure 601.



| — STRAIGHTNESS | Ø | DIAMETER |
|--|-------|---|
| ☐ FLATNESS | s Ø | SPHERICAL DIAMETER |
| <pre> _ PERPENDICULARITY (OR SQUARENESS)</pre> | R | RADIUS |
| // PARALLELISM | SR | SPHERICAL RADIUS |
| ○ ROUNDNESS | () | REFERENCE |
| CYLINDRICITY | BASIC | A THEORETICALLY EXACT DIMENSION USED |
| PROFILE OF A LINE | (BSC) | TO DESCRIBE SIZE, SHAPE OR LOCATION OF |
| ☐ PROFILE OF A SURFACE | OR | A FEATURE. FROM THIS FEATURE PERMIS- |
| ○ CONCENTRICITY | DIM | SIBLE VARIATIONS ARE ESTABLISHED BY TOLERANCES ON OTHER DIMENSIONS OR |
| = SYMMETRY | | NOTES. |
| ∠ ANGULARITY | -A- | DATUM |
| | (M) | MAXIMUM MATERIAL CONDITION (MMC) |
| Total runout | Ū | LEAST MATERIAL CONDITION (LMC) |
| □ COUNTERBORE OR SPOTFACE | (3) | REGARDLESS OF FEATURE SIZE (RFS) |
| √ COUNTERSINK | P | PROJECTED TOLERANCE ZONE |
| THEORETICAL EXACT POSITION | _ | |
| OF A FEATURE (TRUE POSITION) | FIM | FULL INDICATOR MOVEMENT |

EXAMPLES

| <u>EX</u> | AMPLES |
|--|--|
| - 0.002 STRAIGHT WITHIN 0.002 | ◎ Ø 0.0005 C CONCENTRIC TO DATUM C WITHIN 0.0005 DIAMETER |
| | ■ 0.010 A SYMMETRICAL WITH DATUM A |
| // 0.002 A PARALLEL TO DATUM A WITHIN 0.002 | WITHIN 0.010 ∠ 0.005 A ANGULAR TOLERANCE 0.005 |
| 0.002 ROUND WITHIN 0.002 | WITH DATUM A |
| 0.010 CYLINDRICAL SURFACE MUST LIE BETWEEN TWO CONCENTRIC CYLINDERS, ONE OF WHICH HAS A RADIUS 0.010 INCH GREATER THAN THE OTHER | ⊕ Ø 0.002 ⑤ B LOCATED AT TRUE POSITION WITHIN 0.002 DIA RELATIVE TO DATUM B, REGARDLESS OF FEATURE SIZE |
| O.006 A EACH LINE ELEMENT OF THE SURFACE AT ANY CROSS SECTION MUST LIE BETWEEN TWO PROFILE BOUNDARIES O.006 INCH APART RELATIVE TO DATUM A | AXIS IS TOTALLY WITHIN A O.510 P CYLINDER OF O.010 INCH DIAMETER, PERPENDICULAR TO DATUM A, AND EXTENDING O.510 INCH ABOVE DATUM A, MAXIMUM MATERIAL CONDITION |
| O.020 A SURFACES MUST LIE WITHIN PARALLEL BOUNDARIES O.020 INCH APART AND EQUALLY DISPOSED ABOUT TRUE PROFILE | OR DIMENSION IS 2.000 2.000 BSC |

True Position Dimensioning Symbols Figure 601

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REPAIR - GENERAL Page 602 Mar 01/2006



REFINISH OF OTHER PARTS - REPAIR 1-1

1. General

- A. This procedure has the data necessary to refinish the parts which are not given in the specified repairs.
- B. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 and IPL Figure 2 for the applicable item numbers.

2. Refinish of other parts

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

| Reference | Description | Specification |
|-----------|---|----------------------|
| C00259 | Primer - Chemical And Solvent Resistant Finish, Epoxy Resin | BMS10-11, Type I |
| C00260 | Coating - Chemical And Solvent Resistant Finish, Epoxy Resin Enamel | BMS10-11, Type II |
| C00957 | Finish - Hi-Speed Lacquer, Flat | BAC5755 |

B. References

| Reference | Title |
|---------------|---|
| SOPM 20-30-02 | STRIPPING OF PROTECTIVE FINISHES |
| SOPM 20-41-01 | DECODING TABLE FOR BOEING FINISH CODES |
| SOPM 20-41-04 | APPLICATION OF INTERIOR DECORATIVE FINISHES |
| SOPM 20-60-02 | FINISHING MATERIALS |

C. Procedure

NOTE: For stripping of protective finishes, refer to SOPM 20-30-02. For decoding table for Boeing finish codes, refer to SOPM 20-41-01. For finishing materials, refer to SOPM 20-60-02.

(1) Instructions for the repair of the parts listed in REPAIR 1-1, Table 601 is for repair of the initial finish.

Table 601: Refinish Details

| IPL FIG. & ITEM | MATERIAL | FINISH |
|-----------------------|-------------------------------------|---|
| IPL Fig. 1 | | |
| Cover (15,20) | 321PH CRES | Apply matte finish chrome plate all over (F-14.111). |
| Cam (55) Roller (170) | 440C Steel Rockwell RC57 Minimum | Prepare the surface and passivate (F-17.09). |
| Reverse Lever (60,65) | 15-5PH CRES 150-170 ksi | Apply matte finish chrome plate all over (F-14.111). |
| Pawl (95) | 17-4PH CRES 160-220 ksi | Apply cadmium plate (F-1.20) or apply zinc plate (F-1.205). |

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Table 601: Refinish Details (Continued)

| IPL FIG. & ITEM | MATERIAL | FINISH |
|---|-------------------------------------|--|
| Doubler (135) | 15-5PH CRES 150-170 ksi | Prepare the surface and passivate (F-17.09). |
| Pin Plate (140,142) Spring Plunger (175) | 17-4PH CRES 180-200 ksi | Prepare the surface and passivate (F-17.09). |
| Spring (195) | 1095 Steel Rockwell C47 to C52 | Apply cadmium-titanium plate, bake 12 hours minimum at 350-400°F, and apply chromate post-plate treatment (F-15.01). |
| Switch Mount (230,235) | 15-5PH CRES 180-200 ksi | Passivate (F-17.25). |
| Clamp-up Spacer (305) | 4130 Steel 125-145 ksi | Apply cadmium plate (F-15.06). |
| Retainer (330) | 2024-T4 Al Alloy | Chemical treat and apply primer, C00259 (F-2.31). Prepare the surface and apply two layers of Hi-Speed lacquer, flat (F-14.903-705). |
| IPL Fig. 2 | | |
| Cover (15,20) | 321PH CRES | Apply matte finish chrome plate all over (F-14.111). |
| Cam (55) Roller (170) | 440C Steel Rockwell RC57 Minimum | Prepare the surface and passivate (F-17.09). |
| Reverse Lever (60,65) | 15-5PH CRES 150-170 ksi | Apply matte finish chrome plate all over (F-14.111). |
| Pawl (95) | 17-4PH CRES 160-220 ksi | Apply cadmium plate (F-1.20) or apply zinc plate (F-1.205). |
| Doubler (135) | 15-5PH CRES 150-170 ksi | Prepare the surface and passivate (F-17.09). |
| Pin Plate (140,142) Spring Plunger (175) | 17-4PH CRES 180-200 ksi | Prepare the surface and passivate (F-17.09). |
| Spring (195) | 1095 Steel Rockwell C47 to C52 | Apply cadmium-titanium plate, bake 12 hours minimum at 350-400°F, and apply chromate post-plate treatment (F-15.01). |
| Housing (235A,237) | 15-5PH CRES 150-170 ksi | Cadmium plate (F-15.06), Type II, Class 2. |
| Switch Mount (245,250) | 15-5PH CRES 180-200 ksi | Passivate (F-17.25). |
| Clamp-up Spacer (315) | 4130 Steel 125-145 ksi | Apply cadmium plate (F-15.06). |
| Retainer (340) | 2024-T4 AI Alloy | Chemical treat and apply primer, C00259 (F-2.31). Prepare the surface and apply finish, C00957, flat as shown in SOPM 20-41-04 (F-14.903-705). |

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REPAIR 1-1 Page 602 Nov 01/2008



Table 601: Refinish Details (Continued)

| IPL FIG. & ITEM | MATERIAL | FINISH |
|-----------------|----------|---|
| Cover (550,555) | | Boric acid-sulfuric acid anodize, Class 1 or 5, or Chromic acid anodize at 22 volts, Class 1 or 3 (F-17.31). Apply primer, C00259 (F-20.03). Apply enamel coating, C00260 (SRF 14.903.705) color 705. |

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REPAIR 1-1 Page 603 Mar 01/2006



CONTROL ROD ASSEMBLY - REPAIR 2-1

250N2004-115

1. General

- A. This procedure has the data necessary to repair the control rod assembly (IPL Figure 1, 480; IPL Figure 2, 475).
- B. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Figure 601 shown in the repair.
- D. Refer to IPL Figure 1 and IPL Figure 2 for item numbers.

2. Rod End Bearing

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

| Reference | Description | Specification |
|-----------|--|--|
| B50080 | Compound - Corrosion Preventive, Solvent Cutback, Cold-Application (Grade 2 - Soft Film) | MIL-PRF-16173, Grade 2 (Supersedes MIL-C-16173, Grade 2) |

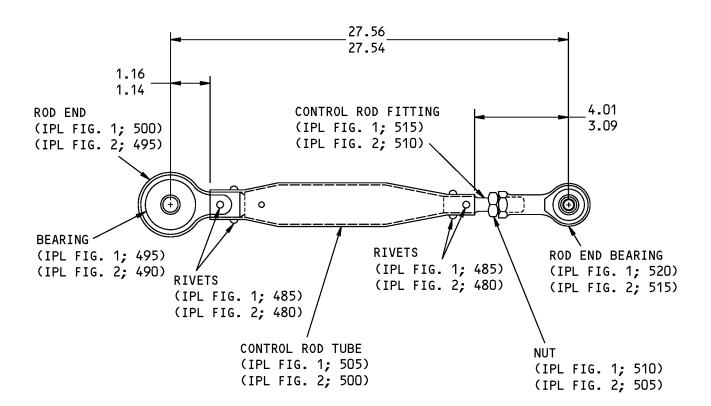
B. References

| Reference | Title |
|---------------|---|
| SOPM 20-41-05 | APPLICATION OF CORROSION INHIBITING COMPOUNDS |

- C. Procedure (IPL Figure 1, 520; IPL Figure 2, 515) Replacement
 - (1) Remove the rod end bearing (IPL Figure 1, 520; IPL Figure 2, 515) from the control rod fitting (IPL Figure 1, 515; IPL Figure 2, 510).
 - (2) Install a rod end bearing (IPL Figure 1, 520; IPL Figure 2, 515) on the control rod fitting (IPL Figure 1, 515; IPL Figure 2, 510) as follows:
 - (a) Apply a thin layer of compound, B50080 onto the mating threads of the nut (IPL Figure 1, 510; IPL Figure 2, 505), the control fitting (IPL Figure 1, 515; IPL Figure 2, 510), and the rod end bearing (IPL Figure 1, 520; IPL Figure 2, 515) (SOPM 20-41-05).
 - (b) Install the nut (IPL Figure 1, 510; IPL Figure 2, 505) onto the control rod fitting (IPL Figure 1, 515; IPL Figure 2, 510).
 - (c) Install the rod end bearing (IPL Figure 1, 520; IPL Figure 2, 515) onto the control rod fitting (IPL Figure 1, 515; IPL Figure 2, 510) to the dimension and with the rod end aligned as shown in REPAIR 2-1, Figure 601.
 - (d) Tighten the nut (IPL Figure 1, 515; IPL Figure 2, 510) to the rod end bearing (IPL Figure 1, 520; IPL Figure 2, 515).

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REPAIR 2-1 Page 601 Nov 01/2007



ALL DIMENSIONS ARE IN INCHES.

250N2004-115 Control Rod Assembly Repair Figure 601

76-11-07

REPAIR 2-1 Page 602 Mar 01/2006



CONTROL ROD ASSEMBLY - REPAIR 2-2

250N2004-115

1. General

- A. This procedure has the data necessary to refinish the control rod assembly (IPL Figure 1, 480; IPL Figure 2, 475).
- B. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Figure 601 shown in the repair.
- D. Refer to IPL Figure 1 and IPL Figure 2 for the applicable item numbers.
- E. General repair details:
 - (1) Material:
 - (a) Rod end (IPL Figure 1, 500; IPL Figure 2, 495) 7075-T73511 Al Alloy
 - (b) Control Rod Tube (IPL Figure 1, 505; IPL Figure 2, 500) 2024-0 Al Alloy Heat treat T42

2. Control Rod Tube

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

| Reference | Description | Specification |
|-----------|--|---------------------|
| C00259 | Primer - Chemical And Solvent Resistant Finish, Epoxy Resin | BMS10-11, Type I |

B. References

| Reference | Title |
|---------------|--|
| SOPM 20-30-02 | STRIPPING OF PROTECTIVE FINISHES |
| SOPM 20-41-01 | DECODING TABLE FOR BOEING FINISH CODES |
| SOPM 20-41-02 | APPLICATION OF CHEMICAL AND SOLVENT RESISTANT FINISHES |
| SOPM 20-60-02 | FINISHING MATERIALS |

C. Procedure (IPL Figure 1, 505; IPL Figure 2, 500) Refinish

NOTE: For stripping of protective finishes, refer to SOPM 20-30-02. For decoding table for Boeing finish codes, refer to SOPM 20-41-01. For finishing materials, refer to SOPM 20-60-02.

- (1) Chemical treat exterior surface (F-17.08) of the control rod tube.
- (2) Apply primer, C00259 (F-20.03) to the control rod tube as shown in SOPM 20-41-02.

3. Rod End

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

| Reference | Description | Specification |
|-----------|---|---------------|
| C00259 | Primer - Chemical And Solvent Resistant Finish, | BMS10-11, |
| | Epoxy Resin | Type I |

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B. References

| Reference | Title |
|---------------|--|
| SOPM 20-30-02 | STRIPPING OF PROTECTIVE FINISHES |
| SOPM 20-41-01 | DECODING TABLE FOR BOEING FINISH CODES |
| SOPM 20-41-02 | APPLICATION OF CHEMICAL AND SOLVENT RESISTANT FINISHES |
| SOPM 20-43-01 | CHROMIC ACID ANODIZING |
| SOPM 20-60-02 | FINISHING MATERIALS |

C. Procedure (IPL Figure 1, 500; IPL Figure 2, 495) Refinish

NOTE: For stripping of protective finishes, refer to SOPM 20-30-02. For decoding table for Boeing finish codes, refer to SOPM 20-41-01. For finishing materials, refer to SOPM 20-60-02.

- (1) Chromate acid anodize (F-18.13) but seal in a mixed chromate solution as shown in SOPM 20-43-01 to the surface of the rod end you can access.
- (2) Apply one layer of primer, C00259 to the surface of the rod end you can access as shown in SOPM 20-41-02. Do not apply primer in the hole for the bearing (IPL Figure 1, 495; IPL Figure 2, 490).



CRANK ASSEMBLY - REPAIR 3-1

254A1242-1, -2

1. General

- A. This procedure has the data necessary to repair the crank assembly (IPL Figure 1, 365, 370; IPL Figure 2, 370, 375).
- B. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Figure 601 shown in the repair.
- D. Refer to IPL Figure 1 and IPL Figure 2 for the applicable item numbers.

2. Bearing

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

| Reference | Description | Specification |
|------------|--|---------------------------|
| A00247 | Sealant - Pressure And Environmental - Chromate Type | BMS 5-95 |
| C00259 | Primer - Chemical And Solvent Resistant Finish, Epoxy Resin | BMS10-11, Type I |
| C00528 | Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film) | MIL-C-11796, Class III |
| References | | |

B. F

| Reference | Title | |
|---------------|---------------------------------|--|
| SOPM 20-50-03 | BEARING AND BUSHING REPLACEMENT | |
| SOPM 20-60-02 | FINISHING MATERIALS | |
| SOPM 20-60-04 | MISCELLANEOUS MATERIALS | |

C. Procedure (IPL Figure 1, 390; IPL Figure 2, 395) Replacement

CAUTION: THE CRANK ASSEMBLY (FIG. 1, 365, 370; FIG. 2, 370, 375) IS ROLLER SWAGED ON THE LEVER ASSEMBLY (FIG.1, 270, 275; FIG. 2, 280, 285). DO NOT REMOVE THE BEARING (FIG. 1, 395; FIG. 2, 400).

NOTE: For finishing materials, refer to SOPM 20-60-02. For miscellaneous materials, refer to SOPM 20-60-04.

(1) Remove the bolts (IPL Figure 1, 375; IPL Figure 2, 380), cam (IPL Figure 1, 380; IPL Figure 2, 385) and the retainer (IPL Figure 1, 385; IPL Figure 2, 390) from the crank (IPL Figure 1, 400; IPL Figure 2, 405).

NOTE: Do not remove the inserts (IPL Figure 1, 398; IPL Figure 2, 402) unless replacement is necessary.

(2) Remove the bearing (IPL Figure 1, 390A; IPL Figure 2, 395A) from the crank (IPL Figure 1, 400; IPL Figure 2, 405).

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- (3) Install the bearing (IPL Figure 1, 390A; IPL Figure 2, 395A) in the crank (IPL Figure 1, 400; IPL Figure 2, 405) with sealant, A00247 (primer, C00259 optional) as shown in SOPM 20-50-03, press-fit procedure, and REPAIR 3-1, Figure 601.
- (4) Install the retainer (IPL Figure 1, 385; IPL Figure 2, 390), cam (IPL Figure 1, 380; IPL Figure 2, 385), and bolts (IPL Figure 1, 375; IPL Figure 2, 380) onto the crank (IPL Figure 1, 400; IPL Figure 2, 405). Install the bolts with compound, C00528 (F-19.11), and tighten 18-25 pound inches.

3. Cam Replacement

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Danasistias

| | Reference | Description | Specification |
|----|---------------|--|---------------------------|
| | C00528 | Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film) | MIL-C-11796, Class III |
| B. | References | | |
| | Reference | Title | |
| | SOPM 20-41-01 | DECODING TABLE FOR BOEING FINISH CODES | |
| | SOPM 20-60-02 | FINISHING MATERIALS | |

C. Procedure

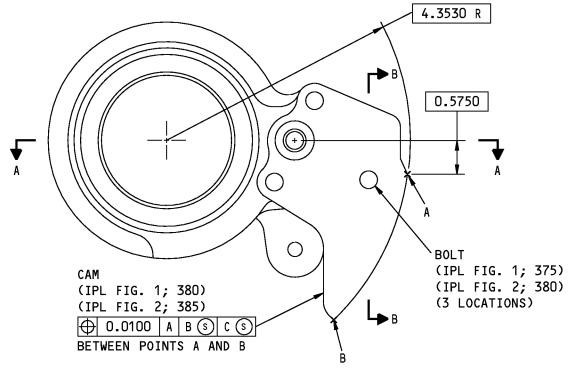
NOTE: For decoding table for Boeing finish codes, refer to SOPM 20-41-01. For finishing materials, refer to SOPM 20-60-02.

- (1) Remove the bolts (IPL Figure 1, 375; IPL Figure 2, 380) and the cam (IPL Figure 1, 380; IPL Figure 2, 385) from the crank (IPL Figure 1, 400; IPL Figure 2, 405).
- (2) Apply compound, C00528, (F-19.11) on the bolts (IPL Figure 1, 375; IPL Figure 2, 380).
- (3) Install the cam (IPL Figure 1, 380; IPL Figure 2, 385) on the crank (IPL Figure 1, 400; IPL Figure 2, 405) with the bolts (IPL Figure 1, 375; IPL Figure 2, 380) as shown in REPAIR 3-1, Figure 601 and tighten 18-25 pound inches.

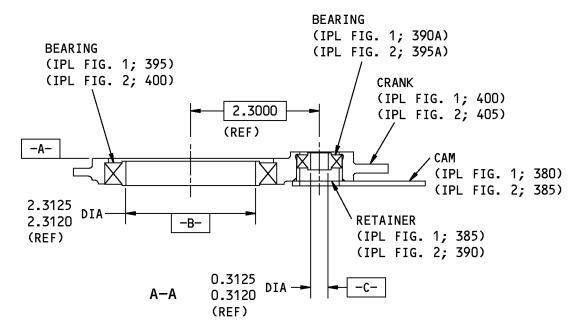
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254A1242-1 SHOWN 1 254A1242-2 OPPOSITE



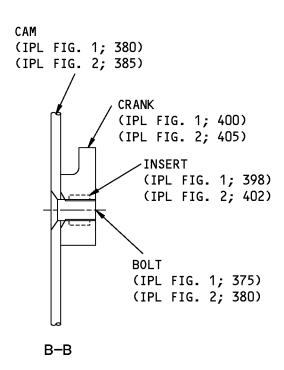
F78623 S00041008677_V2

254A1242-1,-2 Crank Assembly Repair Figure 601 (Sheet 1 of 2)

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REPAIR 3-1 Page 603 Nov 01/2008





1 THE LEVER ASSEMBLY IS REMOVED FROM THIS FIGURE TO MAKE IT CLEAR

ALL DIMENSIONS ARE IN INCHES.

H47133 S00041008678_V2

254A1242-1,-2 Crank Assembly Repair Figure 601 (Sheet 2 of 2)

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REPAIR 3-1 Page 604 Nov 01/2008



CRANK REPAIR - 3-2

254A1243-1, -2

1. General

- A. This procedure has the data necessary to refinish the crank (IPL Figure 1, 400, 402; IPL Figure 2, 405, 410).
- B. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Figure 601 shown in the repair.
- D. Refer to IPL Figure 1 and IPL Figure 2 for the applicable item numbers.
- E. General repair details:
 - (1) Material: 7075-T7351 Aluminum alloy

2. Crank

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

| Reference | Description | Specification |
|-----------|--|---------------------|
| C00259 | Primer - Chemical And Solvent Resistant Finish, Epoxy Resin | BMS10-11, Type I |

B. References

| Reference | Title |
|---------------|--|
| SOPM 20-30-02 | STRIPPING OF PROTECTIVE FINISHES |
| SOPM 20-41-01 | DECODING TABLE FOR BOEING FINISH CODES |
| SOPM 20-41-02 | APPLICATION OF CHEMICAL AND SOLVENT RESISTANT FINISHES |
| SOPM 20-43-01 | CHROMIC ACID ANODIZING |
| SOPM 20-60-02 | FINISHING MATERIALS |

C. Procedure (IPL Figure 1, 400, 402; IPL Figure 2, 405, 410) Refinish

NOTE: For stripping of protective finishes, refer to SOPM 20-30-02. For decoding table for Boeing finish codes, refer to SOPM 20-41-01. For finishing materials, refer to SOPM 20-60-02.

- (1) Boric acid-sulfuric acid anodize, Class 1 or 5, or chromic acid anodize, Class 3 or 5 (F-17.31) as shown in SOPM 20-43-01.
- (2) Apply primer, C00259 (F-20.03) as shown in SOPM 20-41-02.
 - (a) Do not anodize (F-17.31) or apply primer, C00259 (F-20.03) to the surfaces of the crank (IPL Figure 1, 400, 402; IPL Figure 2, 405, 410) as shown in REPAIR 3-2, Figure 601.
- D. Procedure (IPL Figure 1, 398; IPL Figure 2, 402) Replacement

NOTE: For stripping of protective finishes, refer to SOPM 20-30-02. For decoding table for Boeing finish codes, refer to SOPM 20-41-01. For finishing materials, refer to SOPM 20-60-02.

(1) Remove the inserts (IPL Figure 1, 398; IPL Figure 2, 402).

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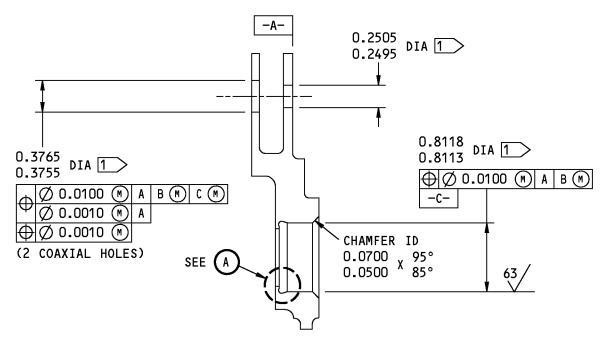


(2) Install the inserts (IPL Figure 1, 398; IPL Figure 2, 402) in the crank (IPL Figure 1, 400, 402; IPL Figure 2, 405, 410) with primer, C00259 (F-20.20) and seat with thread gage while primer is still wet.

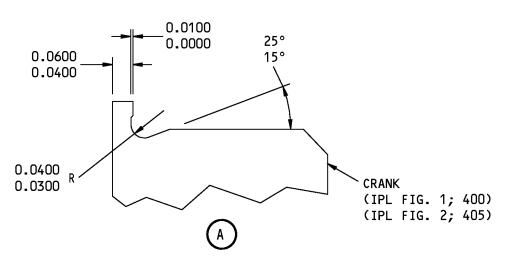
76-11-07

REPAIR 3-2 Page 602 Nov 01/2008





254A1243-1 SHOWN 254A1243-2 OPPOSITE



1 DO NOT ANODIZE (F-17.31) OR APPLY PRIMER (F-20.03) ON THIS SURFACE

125 ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY

BREAK ALL SHARP EDGES

ALL DIMENSIONS ARE IN INCHES

H47146 S00041008680_V2

254A1243-1,-2 Crank Refinish Figure 601

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REPAIR 3-2 Page 603 Nov 01/2008

CAM - REPAIR 3-3

254A1244-1, -2

1. General

- A. This procedure has the data necessary to refinish the cam (IPL Figure 1, 380, 382; IPL Figure 2, 385, 387).
- B. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Figure 601 shown in the repair.
- D. Refer to IPL Figure 1 and IPL Figure 2 for the applicable item numbers.
- E. General repair details:
 - (1) Material:
 - 15-5 PH CRES
 - 180-200 ksi

2. Cam

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

| Reference | Description | Specification |
|-----------|--|---------------------|
| C00259 | Primer - Chemical And Solvent Resistant Finish, Epoxy Resin | BMS10-11, Type I |

B. References

| Reference | Title |
|---------------|--|
| SOPM 20-30-02 | STRIPPING OF PROTECTIVE FINISHES |
| SOPM 20-41-01 | DECODING TABLE FOR BOEING FINISH CODES |
| SOPM 20-41-02 | APPLICATION OF CHEMICAL AND SOLVENT RESISTANT FINISHES |
| SOPM 20-60-02 | FINISHING MATERIALS |

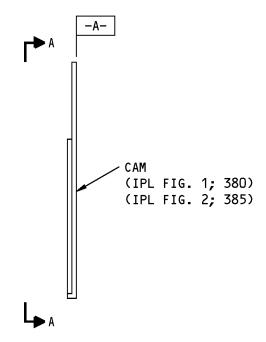
C. Procedure (IPL Figure 1, 380, 382; IPL Figure 2, 385, 387) Refinish

NOTE: For stripping of protective finishes, refer to SOPM 20-30-02. For decoding table for Boeing finish codes, refer to SOPM 20-41-01. For finishing materials, refer to SOPM 20-60-02.

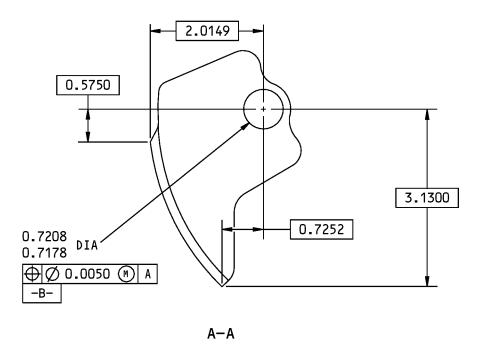
- (1) Apply cadmium plate (F-16.06), Type 2, Class 2.
- (2) Apply primer, C00259 (F-20.02) as shown in SOPM 20-41-02.
 - (a) Do not apply primer, C00259 (F-20.02) to the surface of the cam (IPL Figure 1, 380, 382; IPL Figure 2, 385, 387) as shown in REPAIR 3-3, Figure 601.

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254A1244-1 SHOWN 254A1244-2 OPPOSITE

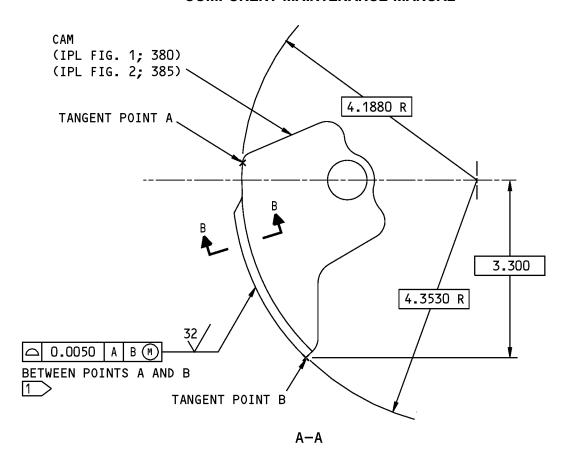


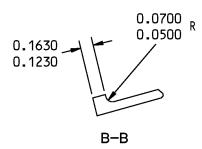
254A1244-1,-2 Cam Refinish Figure 601 (Sheet 1 of 2)

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REPAIR 3-3 Page 602 Mar 01/2006







1 DO NOT APPLY PRIMER (F-20.02) ON THIS SURFACE. 125 ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY

BREAK ALL SHARP EDGES

ALL DIMENSIONS ARE IN INCHES

254A1244-1,-2 Cam Refinish Figure 601 (Sheet 2 of 2)

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REPAIR 3-3 Page 603 Mar 01/2006

RETAINER - REPAIR 3-4

254A1246-1

1. General

- A. This procedure has the data necessary to refinish the retainer (IPL Figure 1, 385; IPL Figure 2, 390).
- B. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Figure 601 shown in the repair.
- D. Refer to IPL Figure 1 and IPL Figure 2 for the applicable item numbers.
- E. General repair details:
 - (1) Material: 2024-T4 Al alloy

2. Retainer

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

| Reference | Description | Specification |
|-----------|--|---------------------|
| C00259 | Primer - Chemical And Solvent Resistant Finish, Epoxy Resin | BMS10-11, Type I |

B. References

| Reference | Title |
|---------------|--|
| SOPM 20-30-02 | STRIPPING OF PROTECTIVE FINISHES |
| SOPM 20-41-01 | DECODING TABLE FOR BOEING FINISH CODES |
| SOPM 20-41-02 | APPLICATION OF CHEMICAL AND SOLVENT RESISTANT FINISHES |
| SOPM 20-60-02 | FINISHING MATERIALS |

C. Procedure (IPL Figure 1, 385; IPL Figure 2, 390) Refinish

NOTE: For stripping of protective finishes, refer to SOPM 20-30-02. For decoding table for Boeing finish codes, refer to SOPM 20-41-01. For finishing materials, refer to SOPM 20-60-02.

- (1) Sulfuric acid anodize (F-17.03).
- (2) Apply primer, C00259 (F-20.02) as shown in SOPM 20-41-02.



LEVER ASSEMBLY - REPAIR 4-1

65C37366-1, -2

1. General

- A. This procedure has the data necessary to repair and refinish the lever assembly (270, 275).
- B. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Figure 601 shown in the repair.
- D. Refer to IPL Figure 1 for the applicable item numbers.

2. Bearing (310) Replacement

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

| Reference | Description | Specification |
|-----------|---|--|
| D00013 | Grease - Aircraft And Instrument Grease | MIL-PRF-23827 (NATO G-354) (Supersedes MIL-G-23827) |

B. References

| Reference | Title |
|---------------|---------------------------------|
| SOPM 20-50-03 | BEARING AND BUSHING REPLACEMENT |
| SOPM 20-60-02 | FINISHING MATERIALS |

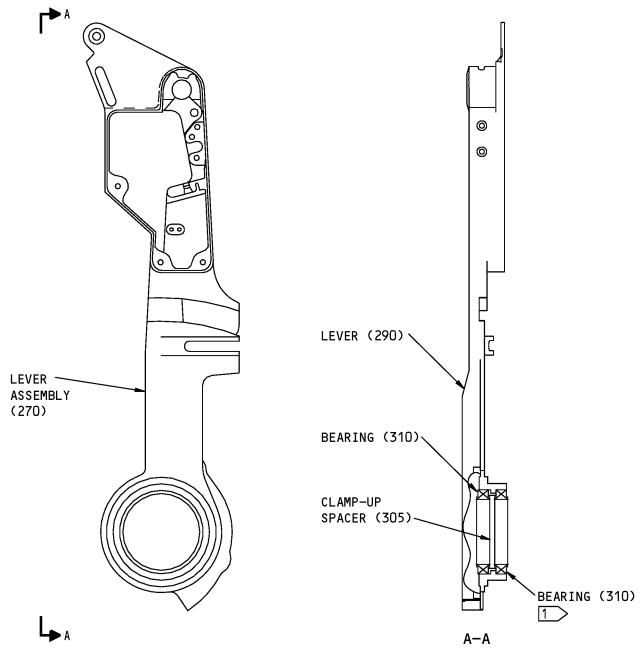
C. Procedure

CAUTION: DO NOT REMOVE THE SWAGED BEARING (310) IDENTIFIED IN FIG. 601.

NOTE: For finishing materials, refer to SOPM 20-60-02.

- (1) Remove the press-fitted bearing (310) from the lever assembly (270, 275).
- (2) Make sure that the clamp-up spacer (305) is installed.
- (3) Install a bearing (310) in the lever assembly (270, 275) by the press-fit procedure with grease, D00013 as shown in SOPM 20-50-03.





65C37366-1 SHOWN 65C37366-2 OPPOSITE

1 LEVER (290) IS ROLLER SWAGED OVER THE BEARING (310)

ITEM NUMBERS FEFER TO IPL FIG. 1

65C37366-1,-2 Lever Assembly Repair Figure 601

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REPAIR 4-1 Page 602 Mar 01/2006



LEVER - REPAIR 4-2

65C37366-3, -4

1. General

- A. This procedure has the data necessary to refinish the lever (290, 292).
- B. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Figure 601 shown in the repair.
- D. Refer to IPL Figure 1 for the applicable item numbers.
- E. General repair details:
 - (1) Material: 15-5PH CRES Heat treat H935

2. Lever (290, 292) Refinish

A. References

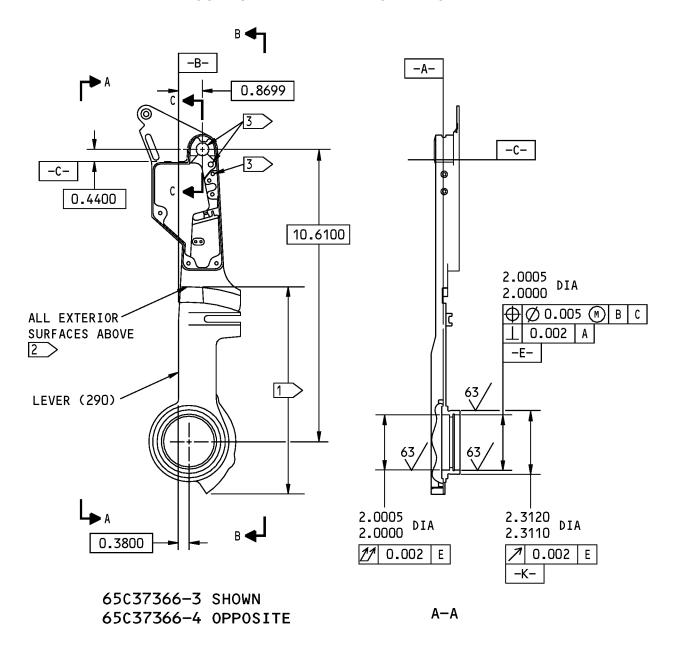
| Reference | Title |
|---------------|--|
| SOPM 20-30-02 | STRIPPING OF PROTECTIVE FINISHES |
| SOPM 20-41-01 | DECODING TABLE FOR BOEING FINISH CODES |

B. Procedure

NOTE: For stripping of protective finishes, refer to SOPM 20-30-02. For decoding table for Boeing finish codes, refer to SOPM 20-41-01.

- (1) Passivate (F-17.25) all surfaces.
- (2) Apply a matte chromium plate finish (F-14.111) on the external surfaces of the lever (290, 292), except as shown in REPAIR 4-2, Figure 601.
 - (a) Matte chromium plate (F-14.111) is permitted, but not necessary on the external surface as shown in REPAIR 4-2, Figure 601.
 - (b) All external surfaces must be free of visual defects on the finish (F-14.111) as shown in REPAIR 4-2, Figure 601.



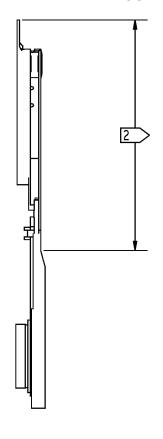


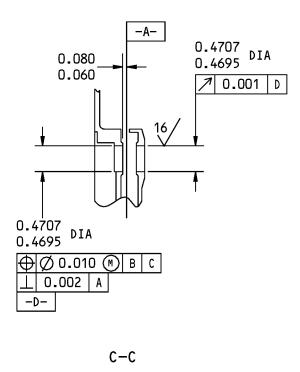
65C37366-3,-4 Lever Refinish Figure 601 (Sheet 1 of 2)

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REPAIR 4-2 Page 602 Mar 01/2006







B-B

- 1 FINISH (F-14.111) PERMITTED BUT NOT NECESSARY ON THIS EXTERIOR SURFACE
- SURFACE MUST BE FREE OF VISUAL DEFECTS ON THE FINISH (F-14.111)
- 3 DO NOT APPLY FINISH TO THIS AREA

125 ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY

BREAK ALL SHARP EDGES

ITEM NUMBERS REFER TO IPL FIG. 1

ALL DIMENSIONS ARE IN INCHES

65C37366-3,-4 Lever Refinish Figure 601 (Sheet 2 of 2)

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REPAIR 4-2 Page 603 Mar 01/2006



LEVER ASSEMBLY - REPAIR 5-1

254A1247-1, -2, -5, -6, -11, -12

1. General

- A. This procedure has the data necessary to repair the lever assembly (280, 285).
- B. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Figure 601 given in the repair procedures.
- D. Refer to IPL Figure 2 for the applicable item numbers.

2. Bearing (320) Replacement

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

| Reference | Description | Specification |
|---------------|-----------------------------------|---------------|
| D00633 | Grease - Aircraft General Purpose | BMS3-33 |
| References | | |
| Reference | Title | |
| SOPM 20-50-03 | BEARING AND BUSHING REPLACEMENT | |
| SOPM 20-60-03 | LUBRICANTS | |

C. Procedure

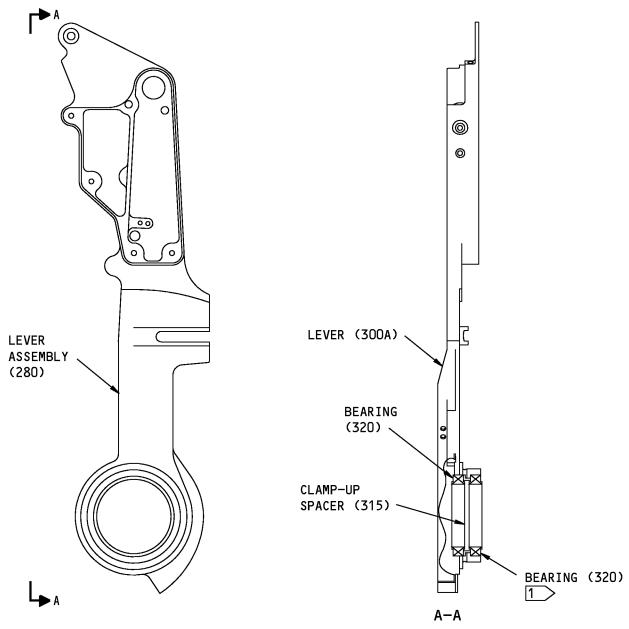
B.

CAUTION: DO NOT REMOVE THE SWAGED BEARING (320) IDENTIFIED IN FIG. 601.

NOTE: For lubricants, refer to SOPM 20-60-03.

- (1) Remove the press-fitted bearing (320) from the lever assembly (280, 285).
- (2) Make sure that the clamp-up spacer (315) is installed.
- (3) Install the bearing (320) in the lever assembly (280, 285) with grease, D00633 by the press-fit procedure (SOPM 20-50-03).





254A1247-1 SHOWN 254A1247-2 OPPOSITE 254A1247-5,-6,-11,-12 SIMILAR

1 LEVER (300A) IS ROLLER SWAGED OVER BEARING (320)

ITEM NUMBERS REFER TO IPL FIG. 2

H47334 S00041008691_V2

254A1247-1,-2,-5,-6,-11,-12 Lever Assembly Repair Figure 601

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LEVER - REPAIR 5-2

254A1247-3, -4, -7, -8, -9, -10, -13, -14

1. General

- A. This procedure has the data necessary to refinish the lever (300A, 302).
- B. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Figure 601 given in the repair procedures.
- D. Refer to IPL Figure 2 for the applicable item numbers.
- E. General repair details:
 - (1) Material: 15-5PH CRES Heat treat H935, Aluminum Alloy

2. Lever (300A, 302) Refinish

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

| Reference | Description | Specification |
|-----------|--|----------------------|
| C00259 | Primer - Chemical And Solvent Resistant Finish, Epoxy Resin | BMS10-11, Type I |
| C50089 | Coating - Flat Black Enamel | BMS10-11, Type II |

B. References

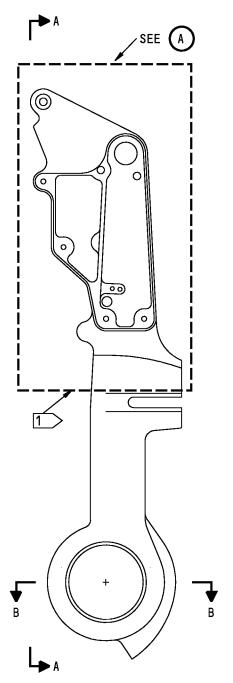
| Reference | Title |
|---------------|--|
| SOPM 20-30-02 | STRIPPING OF PROTECTIVE FINISHES |
| SOPM 20-41-01 | DECODING TABLE FOR BOEING FINISH CODES |
| SOPM 20-41-02 | APPLICATION OF CHEMICAL AND SOLVENT RESISTANT FINISHES |
| SOPM 20-60-02 | FINISHING MATERIALS |

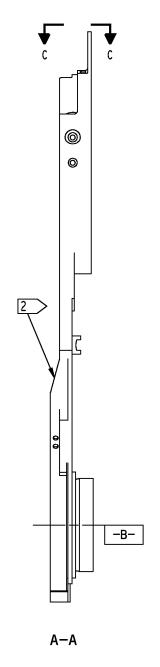
C. Procedure

NOTE: For stripping of protective finishes, refer to SOPM 20-30-02. For decoding table for Boeing finish codes, refer to SOPM 20-41-01. For finishing materials, refer to SOPM 20-60-02.

- (1) Boric acid-sulfuric acid anodize, Class 1 or 5, or chromic acid anodize, Class 3 or 5 (F-17.31) all over.
- (2) Apply primer, C00259 (F-20.02) as shown in SOPM 20-41-02, except for surfaces identified by flagnote 2 in REPAIR 5-2, Figure 601.
- (3) Apply enamel flat black coating, C50089 (F-21.26-705), color 705 as shown in SOPM 20-41-02.







254A1247-3 SHOWN 254A1247-4 OPPOSITE 254A1247-7 THRU -14 SIMILAR

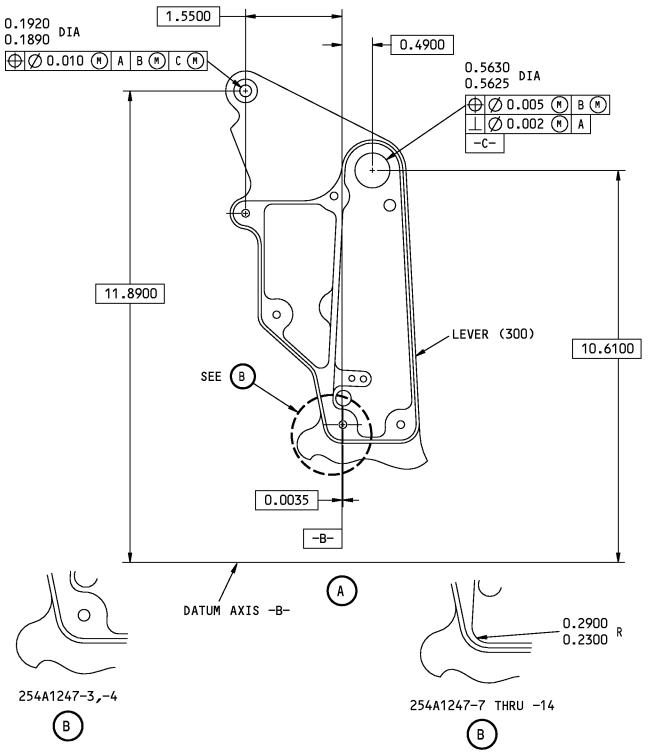
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254A1247-3,-4,-7 Thru -14 Lever Refinish Figure 601 (Sheet 1 of 3)

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REPAIR 5-2 Page 602 Nov 01/2008





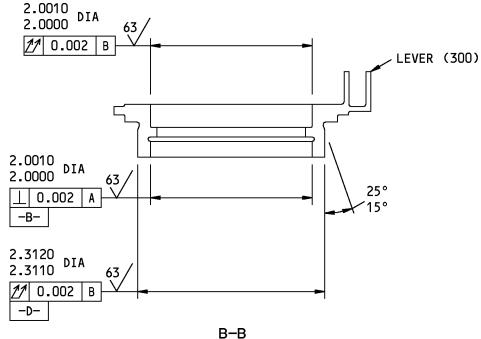
H47483 S00041008694_V2

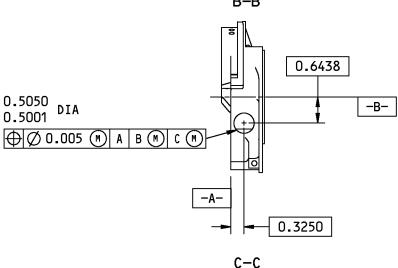
254A1247-3,-4,-7 Thru -14 Lever Refinish Figure 601 (Sheet 2 of 3)

76-11-07

REPAIR 5-2 Page 603 Nov 01/2008







- 1 APPLY FINISH (F-17.31 + F-20.02 + F-21.26-705) AT THIS EXTERIOR SURFACE
- FINISH (F-17.31 + F-20.02 + F-21.26.705) PERMITTED BUT NOT NECESSARY ON THIS EXTERIOR SURFACE

125 ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY
BREAK ALL SHARP EDGES

ITEM NUMBERS REFER TO IPL FIG. 2
ALL DIMENSIONS ARE IN INCHES

H47489 S00041008695_V2

254A1247-3,-4,-7 Thru -14 Lever Refinish Figure 601 (Sheet 3 of 3)

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COVER ASSEMBLY - REPAIR 6-1

254A1253-1, -2

1. General

- A. This procedure has the data necessary to repair the cover assembly (535, 540).
- B. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to REPAIR-GENERAL, Figure 601 given in the repair procedures.
- D. Refer to IPL Figure 2 for the applicable item numbers.

2. Bushing Replacement

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

| Reference | Description | Specification |
|-----------|---|----------------------|
| A00247 | Sealant - Pressure And Environmental - Chromate Type | BMS 5-95 |
| C00259 | Primer - Chemical And Solvent Resistant Finish, Epoxy Resin | BMS10-11, Type I |
| C00260 | Coating - Chemical And Solvent Resistant Finish, Epoxy Resin Enamel | BMS10-11, Type II |

B. References

| Reference | Title |
|---------------|--|
| SOPM 20-30-02 | STRIPPING OF PROTECTIVE FINISHES |
| SOPM 20-41-01 | DECODING TABLE FOR BOEING FINISH CODES |
| SOPM 20-41-02 | APPLICATION OF CHEMICAL AND SOLVENT RESISTANT FINISHES |
| SOPM 20-50-03 | BEARING AND BUSHING REPLACEMENT |
| SOPM 20-60-02 | FINISHING MATERIALS |
| SOPM 20-60-04 | MISCELLANEOUS MATERIALS |

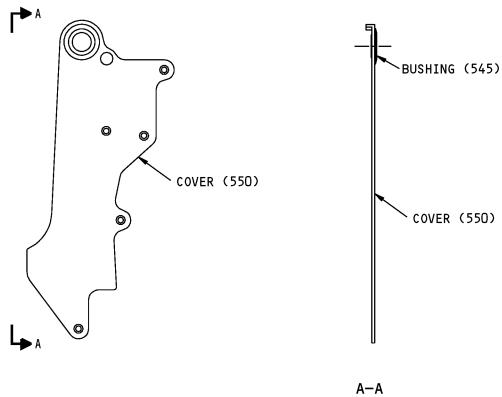
C. Procedure

NOTE: For stripping of protective finishes, refer to SOPM 20-30-02. For decoding table for Boeing finish codes, refer to SOPM 20-41-01. For finishing materials, refer to SOPM 20-60-02. For miscellaneous materials, refer to SOPM 20-60-04

- (1) Remove the bushing (545) from the cover (550, 555) as shown in REPAIR 6-1, Figure 601.
- (2) Install the new bushing (545) onto the cover (550, 555) by the shrink-fit method with sealant, A00247 as shown in SOPM 20-50-03.
- (3) Touch up the bushing flange and sealant, A00247 with primer, C00259 (F-20.02) and enamel coating, C00260 (SRF 14.903.705), color 705 as specified in SOPM 20-41-02.

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254A1253-1 SHOWN 254A1253-2 OPPOSITE

ITEM NUMBERS REFER TO IPL FIG. 2

254A1253-1,-2 Cover Assembly Repair Figure 601

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REPAIR 6-1 Page 602 Mar 01/2006



ASSEMBLY

1. General

- A. This procedure has the data necessary to assemble the control stand thrust lever assembly.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 and IPL Figure 2 for the applicable item numbers.

2. Assembly

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

| Reference | Description | Specification |
|-----------|--|--|
| A00028 | Adhesive - Modified Epoxy For Rigid PVC, Foam Cored Sandwiches | BAC5010, Type 70 (BMS5-92, Type 1) |
| A00230 | Compound - Electrical Insulating Coating | BMS 5-37 |
| A00279 | Adhesive - Fast-Setting Epoxy | BMS5-123 or BAC5010, Type 71 |
| A00551 | Sealant - Fuel Tank | BAC5010, Type 44 (BMS5-44, BMS5-45) |
| D00013 | Grease - Aircraft And Instrument Grease | MIL-PRF-23827 (NATO G-354) (Supersedes MIL-G-23827) |
| G02436 | Lockwire - Monel (0.040 In. Dia.) | NASM20995N [~] C40 |
| G50406 | Tape - Flat Braid | MIL-T-43435, Type 2, Finish C, Size 3 |

B. References

| Reference | Title |
|---------------|-----------------------------------|
| SOPM 20-50-01 | BOLT AND NUT INSTALLATION |
| SOPM 20-50-02 | INSTALLATION OF SAFETYING DEVICES |
| SOPM 20-50-12 | APPLICATION OF ADHESIVES |
| SOPM 20-60-03 | LUBRICANTS |
| SOPM 20-60-04 | MISCELLANEOUS MATERIALS |

C. Procedure (ASSEMBLY, Figure 701 thru ASSEMBLY, Figure 703)

NOTE: For bolt and nut installation, refer to SOPM 20-50-01. For lubricants, refer to SOPM 20-60-03. For miscellaneous materials, refer to SOPM 20-60-04.

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- (1) Use standard industry procedures and the steps shown below to assemble this component.
- (2) Install the pawl on the lever assembly as follows:
 - (a) For 254A1240-1 and -2, install the pawl (IPL Figure 1, 95) onto the lever (290, 292) with the special rivet (85) and washer (90) as shown in ASSEMBLY, Figure 701, Section B-B.
 - (b) For 254A1240-3, -4, -7, -8, -9 and -10 install the pawl (IPL Figure 2, 95) onto the lever (300A, 302) with the special rivet (85) and washer (90) as shown in ASSEMBLY, Figure 702, Section B-B.
- (3) Install the switch mount on the lever assembly as follows:
 - (a) For 254A1240-1 and -2, install the switch mount (IPL Figure 1, 230, 235) onto the lever assembly (270, 275) with the screws (225B) as shown in ASSEMBLY, Figure 701, Section C-C.
 - (b) For 254A1240-3, -4, -7, -8, -9 and -10, install the switch mount (IPL Figure 2, 245, 250) onto the lever assembly (IPL Figure 2, 280, 285) with the screws (240A) as shown in ASSEMBLY, Figure 702, Section C-C.
- (4) Install the switch (IPL Figure 1, 240; IPL Figure 2, 255) on the switch mount (IPL Figure 1, 230, 235; IPL Figure 2, 245, 250) with the nut and lockwasher supplied with the switch (IPL Figure 1, 240; IPL Figure 2, 255). Discard all other parts supplied with the switch (IPL Figure 1, 240; IPL Figure 2, 255).
- (5) For 254A1240-1 and -2 only, bond the bollard (IPL Figure 1, 245) onto the lever assembly (IPL Figure 1, 270, 275) with adhesive, A00028 or adhesive, A00279 (SOPM 20-50-12) as identified by flagnote 1 in ASSEMBLY, Figure 701.
- (6) Install the switch plates (IPL Figure 1, 255; IPL Figure 2, 265) and the switch (IPL Figure 1, 260; IPL Figure 2, 270) on the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285) with the screws (IPL Figure 1, 250A; IPL Figure 2, 260).
- (7) Install the markers onto the lever assembly as follows:
 - (a) For 254A1240-1 and -2, install the markers (IPL Figure 1, 525, 530, 535, 540) onto the lever assembly (270, 275) as shown in ASSEMBLY, Figure 701, Section C-C.
 - (b) For 254A1240-3, -4, -7, -8, -9 and -10, install the markers (IPL Figure 2, 560, 565, 570, 575) onto the lever assembly (IPL Figure 2, 280, 285) as shown in ASSEMBLY, Figure 702, Section C-C.

WARNING: THE LEVER (FIG. 1, 165, 167; FIG. 2, 165, 167) IS MADE OF A BERYLLIUM-COPPER ALLOY. REFER TO SOPM 20-10-09.

- (8) For 254A1240-3, -4, -7, -8, -9 and -10 only, install the housing assembly (225A, 228) onto the lever assembly (IPL Figure 2, 280, 285) with the rivets (222).
- (9) Put the roller (IPL Figure 1, 170; IPL Figure 2, 170) and the spring plunger (IPL Figure 1, 175, 175A; IPL Figure 2, 175, 175A) on the lever (IPL Figure 1, 165, 167; IPL Figure 2, 165, 167). Apply grease, D00013 (SOPM 20-60-03) to the holes. Install the pins (IPL Figure 1, 160; IPL Figure 2, 160). The spring plunger (IPL Figure 1, 175, 175A; IPL Figure 2, 175, 175A) must move freely and the roller (IPL Figure 1, 170; IPL Figure 2, 170) must turn freely.
- (10) Install the spring (IPL Figure 1, 190; IPL Figure 2, 190) on the spring plunger (IPL Figure 1, 175, 175A; IPL Figure 2, 175, 175A). Install the roller assembly (IPL Figure 1, 150, 155; IPL Figure 2, 150, 155) with the spring (IPL Figure 1, 190; IPL Figure 2, 190) in the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285) with grease, D00013 (SOPM 20-60-03).

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- (11) Install the spring (IPL Figure 1, 190, 195; IPL Figure 2, 190, 195), the spacer (IPL Figure 1, 200B; IPL Figure 2, 200), the washers IPL Figure 2, 197 (if installed), the nut assembly (IPL Figure 1, 205; IPL Figure 2, 205) and the nut (IPL Figure 1, 220B; IPL Figure 2, 220) on the end of the spring plunger (IPL Figure 1, 175, 175A; IPL Figure 2, 175, 175A). Make sure the insert (IPL Figure 1, 210; IPL Figure 2, 210) of the nut assembly (IPL Figure 1, 205; IPL Figure 2, 205) is down. Assemble the nuts (IPL Figure 1, 215, 220B; IPL Figure 2, 215, 220) loosely.
- (12) Align the hole in the roller assembly (IPL Figure 1, 150, 155; IPL Figure 2, 150, 155) with the hole in the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285) with the washer (IPL Figure 1, 185; IPL Figure 2, 185) between the roller assembly and the lever assembly (for 254A1240-1 and -2) or the housing assembly (for 254A1240-3, -4, -7, -8, -9 and -10).
- (13) Install the dowel (IPL Figure 1, 145; IPL Figure 2, 145) in the pin plate assembly (IPL Figure 1, 120, 125; IPL Figure 2, 120, 125) by the shrink-fit method with grease, D00013 (SOPM 20-60-03). Install the dowel (IPL Figure 1, 145; IPL Figure 2, 145) to within 0.0000-0.0030 inch above the pin plate assembly (IPL Figure 1, 120, 125; IPL Figure 2, 120, 125).
- (14) Install the pin plate assembly (IPL Figure 1, 120, 125; IPL Figure 2, 120, 125) and the shim (IPL Figure 1, 180; IPL Figure 2, 180) on the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285) through the roller assembly (IPL Figure 1, 150, 155; IPL Figure 2, 150, 155) with the screws (IPL Figure 1, 115C; IPL Figure 2, 115B) as shown in ASSEMBLY, Figure 701, Section F-F and ASSEMBLY, Figure 702, Section E-E.
- (15) Adjust the laminations of the shim (IPL Figure 1, 180; IPL Figure 2, 180) as necessary to get axial movement of 0.002-0.005 inch.
- (16) Attach the link (IPL Figure 1, 75, 80; IPL Figure 2, 75, 80) onto the reverse lever (IPL Figure 1, 60, 65; IPL Figure 2, 60, 65) with the special rivet (IPL Figure 1, 70; IPL Figure 2, 70). The rivet form head must be flush to 0.0050 inch as identified by flagnote 6 in ASSEMBLY, Figure 701 and flagnote 4 in ASSEMBLY, Figure 702.
- (17) Attach the link (IPL Figure 1, 75, 80; IPL Figure 2, 75, 80) and reverse lever (IPL Figure 1, 60, 65; IPL Figure 2, 60, 65) to the crank assembly (IPL Figure 1, 365, 370; IPL Figure 2, 370, 375) with the special bolt (IPL Figure 1, 350; IPL Figure 2, 355), washer (IPL Figure 1, 355; IPL Figure 2, 360), and nut (IPL Figure 1, 360; IPL Figure 2, 365) as shown in ASSEMBLY, Figure 701, Section G-G and ASSEMBLY, Figure 702, Section G-G.
 - (a) Install the quantity of washers (IPL Figure 1, 355; IPL Figure 2, 360) as necessary to have smooth operation of the link (IPL Figure 1, 75, 80; IPL Figure 2, 75, 80) and the crank assembly (IPL Figure 1, 365, 370; IPL Figure 2, 370, 375) when operated with the reverse lever (IPL Figure 1, 60, 65; IPL Figure 2, 60, 65).
 - (b) The head of the special bolt (IPL Figure 1, 350; IPL Figure 2, 355) must not be more than 0.0550 inch above the link (IPL Figure 1, 75, 80; IPL Figure 2, 75, 80). Safety the nut (IPL Figure 1, 360; IPL Figure 2, 365) with lockwire, G02436 (SOPM 20-50-02) by the singletwist method.
- (18) Install the reverse lever (IPL Figure 1, 60, 65; IPL Figure 2, 60, 65) and the link (IPL Figure 1, 75, 80; IPL Figure 2, 75, 80) in the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285) as follows:
 - (a) Move the cam assembly (IPL Figure 1, 40, 45; IPL Figure 2, 40, 45) through the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285) and the bearing (IPL Figure 1, 30; IPL Figure 2, 30). Use grease, D00013 (SOPM 20-60-03) and the cam assembly (IPL Figure 1, 40, 45; IPL Figure 2, 40, 45).

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- (b) For 254A1240-3, -4, -7, -8, -9 and -10 only, install the washer (IPL Figure 2, 35) between the reverse lever (60, 65) and the housing assembly (225A, 228).
- (c) Install the other bearing (IPL Figure 1, 30; IPL Figure 2, 30) in the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285) with the counterbore out. Make sure the splines on the bearing (IPL Figure 1, 30; IPL Figure 2, 30) and the splines on the cam assembly (IPL Figure 1, 40, 45; IPL Figure 2, 40, 45) are engaged.
- (d) Install the screw (IPL Figure 1, 25; IPL Figure 2, 25) and remove the unwanted grease, D00013 (SOPM 20-60-03).
- (19) Install the wire bundles as shown in TESTING AND FAULT ISOLATION, Figure 101 and ASSEMBLY, Figure 702 thru ASSEMBLY, Figure 703.
 - (a) Attach the wire bundle to switch (IPL Figure 1, 340; IPL Figure 2, 350A) as shown in ASSEMBLY, Figure 701, Section J-J and ASSEMBLY, Figure 702, Section J-J.
 - (b) Apply the RT876 sleeve (SOPM 20-60-04) onto the wire bundle assembly from point "B" to the switch (IPL Figure 1, 340; IPL Figure 2, 350A) as shown in ASSEMBLY, Figure 701, Section C-C and H-H or ASSEMBLY, Figure 702, Section K-K.
 - (c) Put the wire bundles in the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285) as shown in ASSEMBLY, Figure 701, Section C-C and K-K or in ASSEMBLY, Figure 702, Section C-C and K-K.
 - (d) For 254A1240-1 and -2 only, apply sealant, A00551 or compound, A00230 in the hole identified by flagnote 7 in ASSEMBLY, Figure 701, Section C-C.
 - (e) Attach the wire bundles to switch (IPL Figure 1, 240, 260; IPL Figure 2, 255, 270) as shown in ASSEMBLY, Figure 701, Section C-C or IPL Figure 2, Section C-C.
 - (f) For 254A1240-1 and -2 only, safety the wire bundle to the bollard (IPL Figure 1, 245) with lacing tape, G50406 as identified by flagnote 1 in ASSEMBLY, Figure 701, Section C-C.
 - (g) For 2541240-1 and -2 only, put the wire bundle through the hole as shown in ASSEMBLY, Figure 701, Section H-H. Do not apply the RT876 sleeve (SOPM 20-60-04) to this location as identified by flagnote 4.
 - (h) Apply the RT876 sleeve (SOPM 20-60-04) from the switch (IPL Figure 1, 260; IPL Figure 2, 270) contacts and solder joints to point "B". The sleeve must be +0.2500 or -0.1200 inch above the wire bundle as shown in ASSEMBLY, Figure 701, Section C-C or ASSEMBLY, Figure 702, Section C-C.
 - (i) Apply the RT876 sleeve (SOPM 20-60-04) from point "A" to the full length of the wire bundle as shown in ASSEMBLY, Figure 701 and ASSEMBLY, Figure 702.
 - (j) Put the wire bundle around the crank assembly (IPL Figure 1, 365; IPL Figure 2, 370) as shown in ASSEMBLY, Figure 701 or ASSEMBLY, Figure 703.
 - (k) For 254A1240-1 and -2 only, apply sealant, A00551 or compound, A00230(SOPM 20-60-04) to the area between point "A" and point "D" as shown in ASSEMBLY, Figure 701.
 - (I) For 254A1240-3, -4, -7, -8, -9 and -10 only, safety the wire bundle onto the lever assembly (IPL Figure 2, 280, 285) with lacing tape, G50406 tape MIL-T-43455 at locations identified by flagnote 6 in ASSEMBLY, Figure 702.
- (20) Install the cover (IPL Figure 1, 15, 20; IPL Figure 2, 15, 20) onto the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285) with the screws (IPL Figure 1, 10C; IPL Figure 2, 10A, 10B) as shown in ASSEMBLY, Figure 701, Section C-C or ASSEMBLY, Figure 702, Section C-C.

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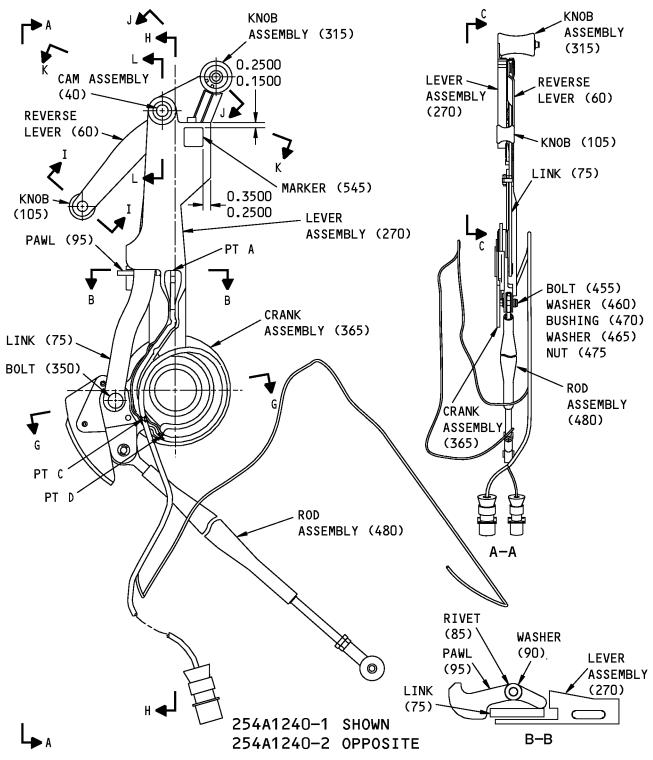


- (21) For 254A1240-3, -4, -7, -8, -9 and -10 only, install the cover assembly (IPL Figure 2, 535, 540) onto the lever assembly (IPL Figure 2, 280, 285) with the screws (530A, 530B) as shown in ASSEMBLY, Figure 702.
- (22) Install the knob (IPL Figure 1, 105, 110; IPL Figure 2, 105, 110) onto the reverse lever (IPL Figure 1, 60, 65; IPL Figure 2, 60, 65) with the screws IPL Figure 1, 100; IPL Figure 2, 100) as shown in ASSEMBLY, Figure 701, Section I-I on ASSEMBLY, Figure 702, Section I-I.
- (23) Attach the wire bundle to the switch (IPL Figure 1, 340; IPL Figure 2, 350A). Install the insulating disc (IPL Figure 1, 325; IPL Figure 2, 335), the switch (IPL Figure 1, 340; IPL Figure 2, 350A), the packing (IPL Figure 1, 300; IPL Figure 2, 310), the retainer (IPL Figure 1, 330; IPL Figure 2, 340), and the ring (IPL Figure 1, 335; IPL Figure 2, 345) into the knob assembly (IPL Figure 1, 315, 320; IPL Figure 2, 325, 330) as shown in ASSEMBLY, Figure 701, Section J-J or ASSEMBLY, Figure 702, Section J-J.
- (24) Install the rod assembly (IPL Figure 1, 480; IPL Figure 2, 475) onto the crank assembly (IPL Figure 1, 365, 370; IPL Figure 2, 370, 375) with the bolt (IPL Figure 1, 455; IPL Figure 2, 450), the washers (IPL Figure 1, 460, 465; IPL Figure 2, 455A, 460), the bushing (IPL Figure 1, 470; IPL Figure 2, 465), and the nut (IPL Figure 1, 475; IPL Figure 2, 470) as shown in ASSEMBLY, Figure 701, Section A-A or ASSEMBLY, Figure 702, Section A-A.
- (25) Install the marker (IPL Figure 1, 545; IPL Figure 2, 580) onto the lever assembly (IPL Figure 1, 270, 275; IPL Figure 2, 280, 285) at the location shown in ASSEMBLY, Figure 701 or ASSEMBLY, Figure 702.
- (26) Do the adjustment test as shown in TESTING AND FAULT ISOLATION.
- (27) Do the functional test as shown in TESTING AND FAULT ISOLATION.

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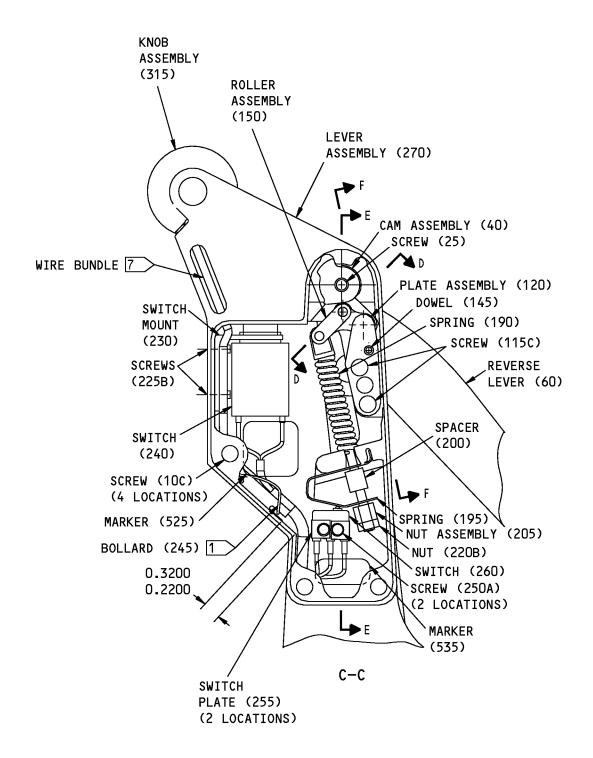
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254A1240-1,-2 Control Stand Thrust Lever Assembly Figure 701 (Sheet 1 of 5)

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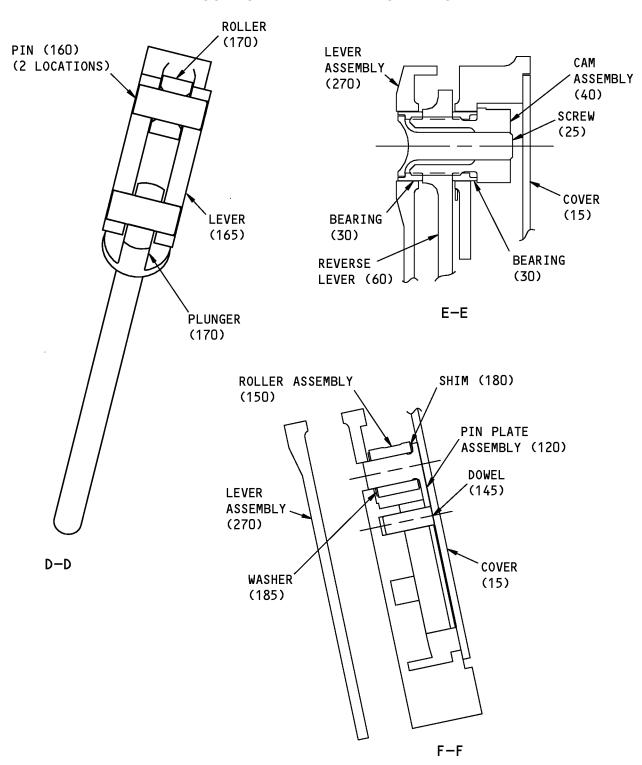
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254A1240-1,-2 Control Stand Thrust Lever Assembly Figure 701 (Sheet 2 of 5)

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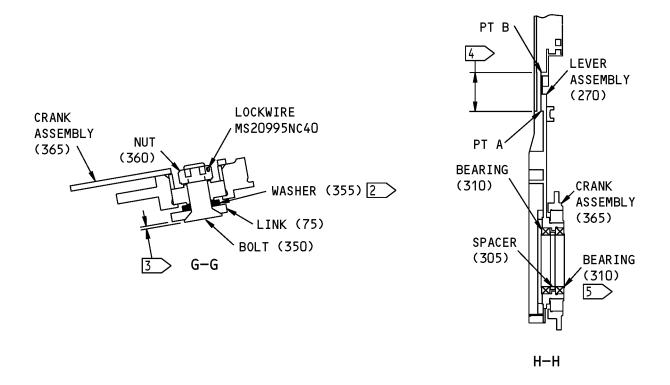
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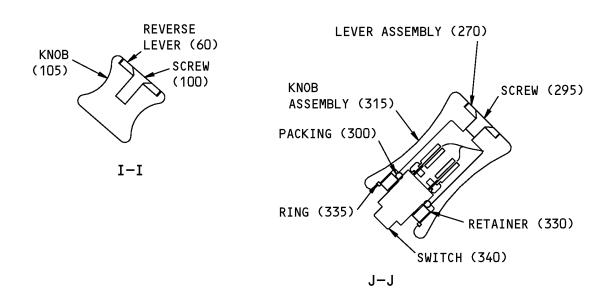
254A1240-1,-2 Control Stand Thrust Lever Assembly Figure 701 (Sheet 3 of 5)

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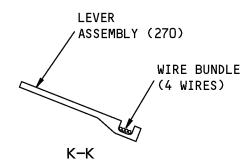


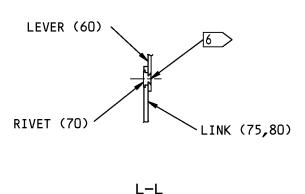


254A1240-1,-2 Control Stand Thrust Lever Assembly Figure 701 (Sheet 4 of 5)

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- 1 MIL-T-43435, TYPE 1, CLASS B TAPE AT THIS LOCATION
- 2 INSTALL THE QUANTITY OF WASHERS
 THAT IS NECESSARY TO HAVE A
 SMOOTH OPERATION AT THIS LOCATION
- THE BOLT HEAD MUST NOT BE MORE THAN 0.0550 INCH ABOVE THE LINK
- 4 NO RT876 SLEEVE AT THIS LOCATION
- 5 > DO NOT REMOVE THIS BEARING

- 6 THE RIVET FORM HEAD MUST BE FLUSH TO 0.0050 INCH AT THIS LOCATION
- 7 BMS 5-26 OR BMS 5-37 AT THIS HOLE

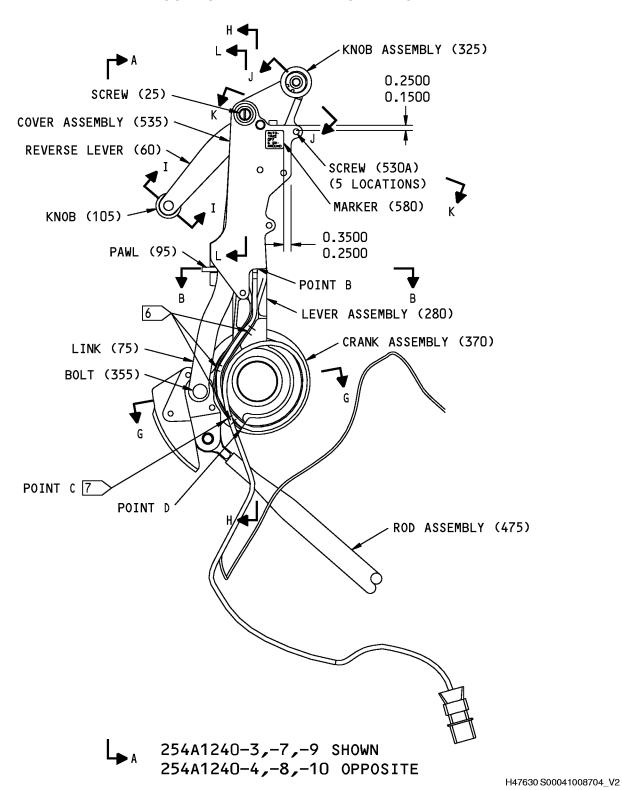
ITEM NUMBER REFER TO IPL FIG 1.
ALL DIMENSIONS ARE IN INCHES

254A1240-1,-2 Control Stand Thrust Lever Assembly Figure 701 (Sheet 5 of 5)

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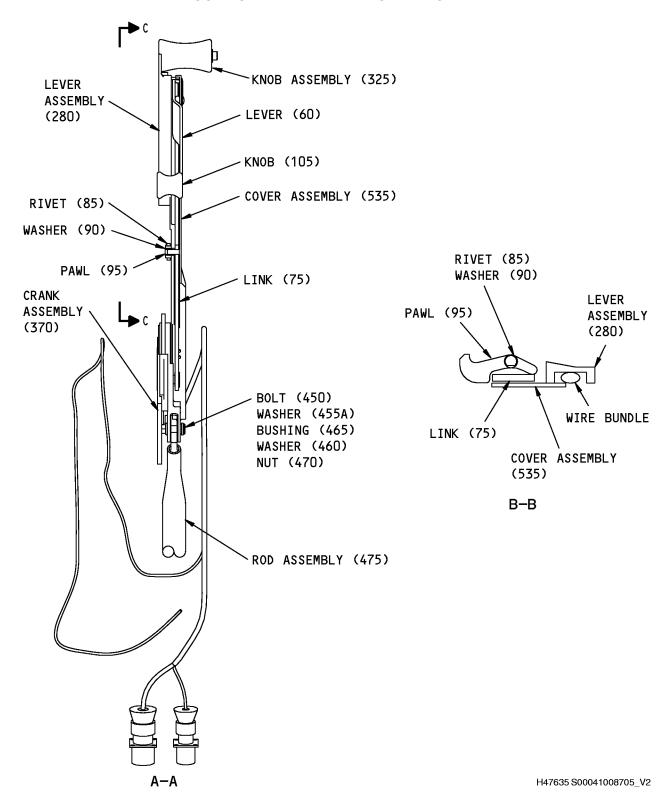


254A1240-3,-4,-7,-8,-9,-10 Control Thrust Lever Assembly Figure 702 (Sheet 1 of 6)

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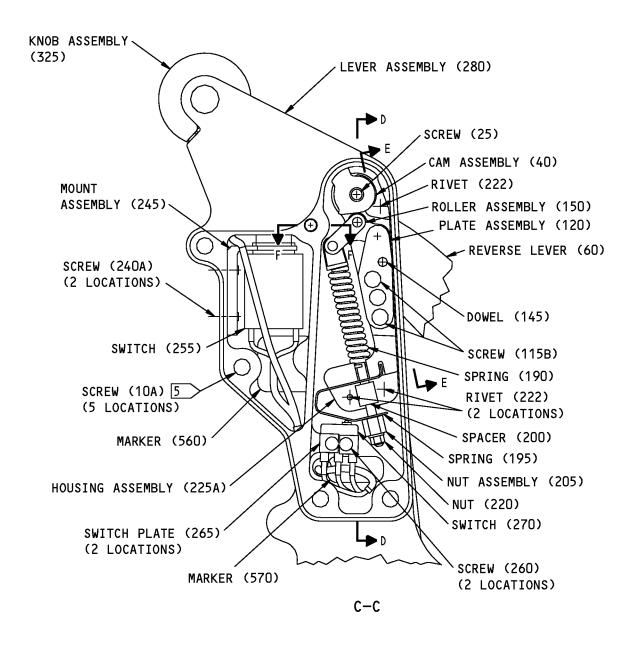




254A1240-3,-4,-7,-8,-9,-10 Control Thrust Lever Assembly Figure 702 (Sheet 2 of 6)

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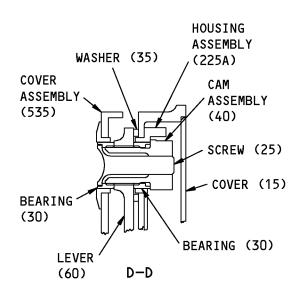
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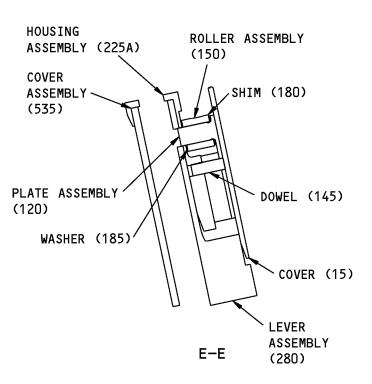
254A1240-3,-4,-7,-8,-9,-10 Control Thrust Lever Assembly Figure 702 (Sheet 3 of 6)

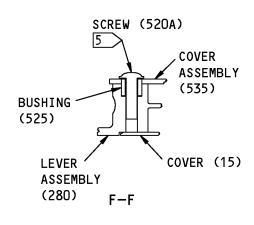
76-11-07

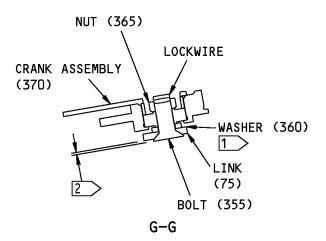
ASSEMBLY Page 713 Nov 01/2008











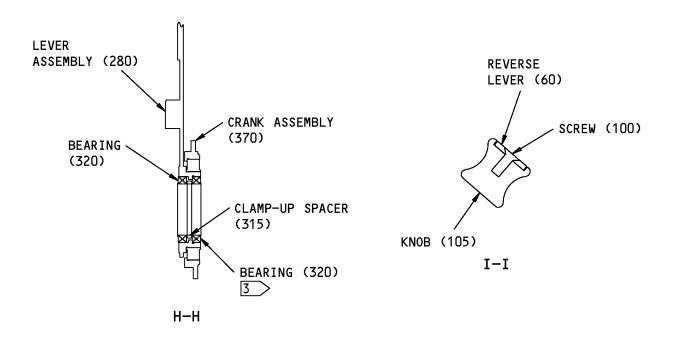
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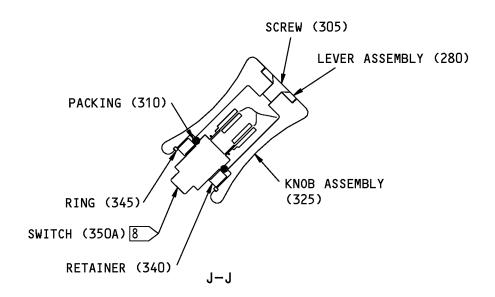
254A1240-3,-4,-7,-8,-9,-10 Control Thrust Lever Assembly Figure 702 (Sheet 4 of 6)

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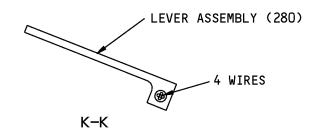
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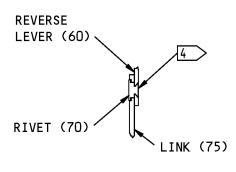
254A1240-3,-4,-7,-8,-9,-10 Control Thrust Lever Assembly Figure 702 (Sheet 5 of 6)

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L-L

- 1 INSTALL THE QUANTITY OF WASHERS
 THAT IS NECESSARY TO HAVE A
 SMOOTH OPERATION AT THIS LOCATION
- THE BOLT HEAD MUST NOT BE MORE THAN 0.0550 INCH ABOVE THE LINK
- 3 > DO NOT REMOVE THIS BEARING
- THE RIVET FORM HEAD MUST BE FLUSHED TO -0.0050 INCH OF THE REVERSE LEVER
- 5 TOUCH UP THE HEAD OF THIS FASTENER WITH PRIMER (F-20.02) AND FLAT EPOXY ENAMEL (SRF-14.903.705)
- 6 MIL-T-43435 TYPE I, CLASS B TAPE AT THIS LOCATION

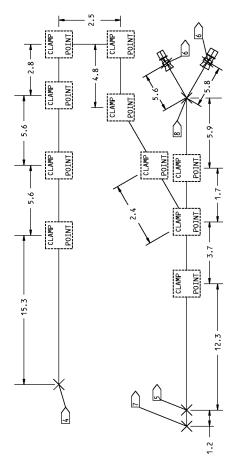
- 7 FOR 254A1240-3, USE BMS 13-52, TYPE 4 EXPANDABLE TEFLON SLEEVING AT THIS LOCATION. FOR 254A1240-4, USE HT 0.25 NYLON SPIRAL WRAP AT THIS LOCATION
- 8 REFER TO FIGURE 703 FOR WIRING DIAGRAM

ITEM NUMBERS REFER TO IPL FIG. 2 ALL DIMENSIONS ARE IN INCHES

254A1240-3,-4,-7,-8,-9,-10 Control Thrust Lever Assembly Figure 702 (Sheet 6 of 6)

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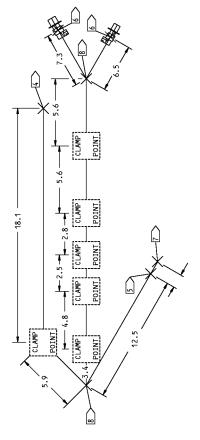
 EQUIP. NO.
 NOMENCLATURE
 PART NUMBER

 D8313.J
 Flanged Connector Receptacle
 BACC45FN12-12P9 W/MS27291-2 €

 D1017.J
 Flanged Connector Receptacle
 BACC45FN10-5P8 W/MS27291-1 €

254A1240-1 thru -4,-7,-8,-9,-10 Wire Bundle Wire Lengths Figure 703 (Sheet 1 of 2)

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| PART NUMBER | BACC45FN10-5P9 W/MS27559-2 2 | BACC45FN12-12P6 W/MS27559-3 2 |
|--------------|--|-------------------------------|
| NOMENCLATURE | D10173J Flanged Connector Receptacle | Flanged Connector Receptacle |
| EQUIP. NO. | D10173J | D8315J |

ALL DIMENSIONS ARE IN INCHES NUMBERS REFER TO LENGTH OF WIRE

| Thin the lever connector accepts bacc47cm1 pin connector accepts bacc47cm1 pin connector accepts bacc47cm1 pin connector accepts bacc47cm1 pin bostfow yet ferminate from next higher assembly with the tendent person next higher assembly bostfow yet ferminate from next higher assembly between these wires from suitch to back9hell subrace of connector insert with yellow riby and the bostfow yith the total to the minimum beyond point c to 1 inch minimum beyond point c to 1 inch minimum beyond print c to 1 inch minimum beyond the service the service of the point c to 1 inch minimum beyond the bostfow stranger service the service of
254A1240-1 thru -4,-7,-8,-9,-10 Wire Bundle Wire Lengths Figure 703 (Sheet 2 of 2)

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FITS AND CLEARANCES

| REF | IPL | NAME | TORQUE | |
|----------|----------|------|--------------|------------|
| FIG. NO. | ITEM NO. | NAME | POUND-INCHES | POUND-FEET |
| 1 | 220B | Nut | 6-8 | |
| 1 | 375 | Bolt | 18-25 | |
| 2 | 220 | Nut | 6–8 | |
| 2 | 380 | Bolt | 18–25 | |

F81442 S00041008713_V2

Torque Table Figure 801

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SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

1. General

A. This section lists the special tools, fixtures, and equipment necessary for maintenance.

NOTE: Equivalent substitutes may be used.

Special Tools

| Reference | Description | Part Number | Supplier |
|-----------|---|----------------|----------|
| SPL-706 | Protractor - Thrust Reverser Levers, Digital Readout | G76002-15 | 81205 |
| | | Opt: G76002-14 | 81205 |
| SPL-2410 | Adapter - Protractor - Thrust Reverser Levers, Digital Readout | G76002-15 | 81205 |
| | | Opt: G76002-14 | 81205 |

Tool Supplier Information

| CAGE Code | Supplier Name | Supplier Address |
|-----------|--------------------|---|
| 81205 | THE BOEING COMPANY | 17930 INTERNATIONAL BLVD. SOUTH SEATAC, WA 98188-4321 Telephone: 206-662-6650 Facsimile: 206-662-7145 |



ILLUSTRATED PARTS LIST

1. Introduction

- A. The Illustrated Parts List (IPL) contains an illustration and a list of component parts you can repair or replace. The Illustrated Parts Catalog (IPC) shows how to use the Boeing part number system.
- B. This shows how parts are related: The relation of each item to its next higher assembly (NHA) is shown in the NOMENCLATURE column. Use the indenture system that follows:

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| | | | | | | |

- . Assembly
- . Attaching parts for assembly
- . Detail parts for assembly
- . Subassembly
- . Attaching parts for subassembly
- . Detail parts for subassembly
- . . . Sub-subassembly
- . . . Attaching parts for subassembly
- . . . Details parts for sub-subassembly

Detail Installation Parts (Included only if installation parts may be sent to the shop as part of assembly)

- C. Each top assembly is given one use code letter (A, B, C, etc.) in the USAGE CODE column. All subsequent component parts in the list can have one or more of the use code letters to show effectivity to top assemblies. A component part without a use code applies to all top assemblies.
- D. An alphabetical letter is added after the item number for optional parts, parts changed by a Service Bulletin, configuration differences (except left-handed and right-handed parts), last engineering releases, and parts added between item numbers in a sequence. The alphabetical letter will not be shown on the illustration for equivalent parts of the same part number.
- E. Color-coded parts are identified with a single digit alpha following the dash number or with "SP" suffix. If the "SP" suffix is used, it represents consolidation of all color codes applicable for a given usage which are not separately listed. Orders for color-coded parts should include the registry number of the airplane for which the parts are ordered.
- F. If a part number is 15 characters long but will not fit in the part number column, the part number will be displayed with a "~" at the end of the line and will be continued on the next line. The "~" denotes that the part number continues on the next line.
- G. Parts changed by a Service Bulletin are shown by PRE SB XXXX and POST SB XXXX added to the NOMENCLATURE column.
 - (1) When a new top assembly is added by a Service Bulletin, PRE SB XXXX and POST SB XXXX will be added at the top assembly level only. The configuration differences at the detail part level are shown by use code letters.
 - (2) When the top assembly part number is not changed by the Service Bulletin, PRE SB XXXX and POST SB XXXX will be added at the detail level.
- H. Interchangeable Parts

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Optional The part is optional to and interchangeable with other parts

(OPT) that have the same item number.

Replaces, Replaced by and not

interchangeable with

(REPLACES, REPLACED BY AND

NOT INTCHG/W)

Replaces, Replaced by (REPLACES, REPLACED BY) The part replaces and is not interchangeable with the initial

The part replaces and is interchangeable with, or is an

alternative to, the initial part.

VENDOR CODES

| Code | Name |
|-------|---|
| 00779 | TYCO ELECTRONICS CORP 2800 FULLING MILL ROAD PO BOX 3608 MIDDLETOWN, PENNSYLVANIA 17057 FORMERLY AMP INC; FORMERLY V04618 FORMERLY GENICOM COMP V01526 |
| 02660 | AMPHENOL CORP INDUSTRIAL TECHNOLOGY DIV 358 HALL AVENUE PO BOX 384 WALLINGFORD, CONNECTICUT 06492 FORMERLY BUNKER RAMO CORP, ELTRA CORP AMPHENOL AND AMPHENOL CORP COMM AND IND DIV |
| 06144 | INDUSTRIAL TECTONICS BEARING CORP 18301 SOUTH SANTA FE AVENUE RANCHO DOMINGUEZ, CALIFORNIA 90221 FORMERLY IN COMPTON, CALIFORNIA |
| 06725 | AIR INDUSTRIES CORPORATION 12570 KNOTT STREET GARDEN GROVE, CALIFORNIA 92641-3932 FORMERLY AIR INDUSTRIES OF CALIF IN GARDENA, CALIF. |
| 09922 | SOURIAU USA INC 25 GRUMBACHER DR YORK, PENNSYLVANNIA 17402-9417 FORMERLY FRAMATOME CONNECTORS FRANCE FORMERLY V59610 IIIN VALENCIA, CALIFORNIA |
| OPTK6 | SPS TECHNOLOGIES INC AEROSPACE PRODUCTS DIV 5195 W 4700 SALT LAKE CITY, UTAH 94118 SEE V56878 SPS TECHNOLOGIES INC |

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| Code | Name |
|-------|---|
| 13556 | LABINAL COMPONENTS AND SYS CINCH MILITARY AEROSPACE DIV 8821 SCIENCE CENTER DRIVE MINNEAPOLIS, MINNESOTA 55428-3619 FORMERLY TRW CINCH MFG CO, FORMERLY IN NEW HOPE, MINNESOTA FORMERLY CINCH CYLINDRICAL DIV OF LABINAL COMP & SYS |
| 15653 | ALCOA GLOBAL FASTENERS INC DIV KAYNAR PRODUCTS 800 S STATE COLLEGE BLVD FULLERTON, CALIFORNIA 92831-3001 FORMERLY VK6405 MICRODOT AEROSP LTD; FORMERLY KAYNAR TECH FORMERLY FAIRCHILD FASTENERS KAYNAR DIV |
| 18342 | Replaced: [V18342] AMP INC SYSCOM DIV by Code: Name and Address below 00779: TYCO ELECTRONICS CORP 2800 FULLING MILL ROAD PO BOX 3608 MIDDLETOWN, PENNSYLVANIA 17057 FORMERLY AMP INC V18342; FORMERLY V04618 FORMERLY GENICOM COMP V01526 |
| 21335 | TIMKEN US CORPORATION DIV FAFNIR 336 MECHANIC STREET LEBANON, NH 03766-0267 FORMERLY FAFNIR BRG AND TEXTRON INC FAFNIR DIV IN NEW BRITAIN, CONNECTICUT; FORMERLY TORRINGTON CO THE SPECIAL PRODUCTS DIV SUB OF THE INGERSOLL-RAND CO V8D210 FORMERLY TORRINGTON CO FAFNIR BEARING DIV IN TORRINGTON, CT |
| 21649 | OTTO CONTROLS DIV OF OTTO ENGRG INC 2 EAST MAIN STREET CARPENTERSVILLE, ILLINOIS 60110 |
| 30163 | VALENTEC DAYRON INC 333 MAGUIRE BLVD PO BOX 140394 ORLANDO, FLORIDA 32814-0394 |
| 38443 | MRC BEARINGS 402 CHANDLER STREET JAMESTOWN, NEW YORK 14701-3802 FORMERLY MARLIN-ROCKWELL CORP DIV TRW AND TRW INC |

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| Code | Name |
|-------|--|
| 40920 | MPB MINIATURE PRECISION BEARING DIV PRECISION PARK PO BOX 547 KEENE, NEW HAMPSHIRE 03431 FORMERLY MPB CORP AND MINIATURE BRG DIV MPB CORP |
| 43991 | FAG BEARING INCORPORATED 118 HAMILTON AVENUE STAMFORD, CONNECTICUT 06904 FORMERLY NORMA-HOFFMAN BEARING CORPORATION FORMERLY NORMA FAG BEARINGS CORPORATION |
| 49367 | AMPHENOL CORP AMPHENOL AEROSPACE PYLE-NATIONAL CONNECTORS 40-60 DELAWARE AVE SIDNEY, NEW YORK 13838-1395 |
| 55104 | TRI-STAR ELECTRONICS INC 2201 ROSECRANS AVENUE EL SEGUNDO, CALIFORNIA 90245 FORMERLY IN VENICE, CA; FORMERLY V71771 CORY COMPONENTS |
| 56878 | SPS TECHNOLOGIES INC AEROSPACE AND INDUSTRIAL PRODUCTS DIV 301 HIGHLAND AVE JENKINTOWN, PENNSYLVANIA 19046 FORMERLY STANDARD PRESSED STEEL FORMERLY IN SALT LAKE, UTAH |
| 62554 | SIMMONDS MECAERO FASTENERS INC 1734 SEQUOIA AVENUE ORANGE, CALIFORNIA 92668 |
| 73197 | HI-SHEAR TECHNOLOGY CORP 2600 SKYPARK DRIVE TORRANCE, CALIFORNIA 90509 |
| 77820 | ALLIED AMPHENOL PRODUCTS BENDIX CONNECTOR OPERATIONS 40-60 DELAWARE ST SIDNEY, NEW YORK 13838 FORMERLY BENDIX CORP THE SCINTILLA DIV AND ELECT COMP DIV |

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FORMERLY BENDIX CORP ELECT CMPNT DIV SANTA ANA PLANT V12143



| Code | Name |
|-------|---|
| 83086 | NEW HAMPSHIRE BALL BEARING, INC HITECH DIVISION 172 JAFFREY ROAD PETERBOROUGH, NEW HAMPSHIRE 03458 |
| 83553 | ASSOCIATED SPRING CORP BARNES GROUP 15001 SOUTH BROADWAY PO BOX 231 GARDENA, CALIFORNIA 90248-1819 FORMERLY V0389B |
| 86928 | SEASTROM MFG CO INC 701 SONORA AVENUE GLENDALE, CALIFORNIA 91201-2431 FORMERLY ELECTRONIC HARDWARE VB0135 |
| 91929 | HONEYWELL INC MICRO SWITCH DIV 11 WEST SPRING STREET FREEPORT, ILLINOIS 61032 FORMERLY MICRO SWITCH A DIV OF HONEYWELL FORMERLY V74059 AND V40228 |
| K8455 | RHP BEARINGS PLC RHP AEROSPACE OLDENDS LANE STONEHOUSE GL10 3RM UK |
| S0350 | NIKKEN KOSAKUSHO WORKS OSAKA HIGASHI CITY, JAPAN |



NUMERICAL INDEX

| PART NUMBER | AIRLINE PART NUMBER | FIGURE | ITEM | UNITS PER ASSEMBLY |
|--------------|---------------------|--------|------|-----------------------|
| 1SX1H58 | | 1 | 260 | 1 |
| | | 2 | 270 | 1 |
| 250N2004-115 | | 1 | 480 | 1 |
| | | 2 | 475 | 1 |
| 250N2005-115 | | 1 | 505 | 1 |
| | | 2 | 500 | 1 |
| 253T1224-1 | | 1 | 490 | 1 |
| | | 2 | 485 | 1 |
| 253T1224-2 | | 1 | 500 | 1 |
| | | 2 | 495 | 1 |
| 254A1240-1 | | 1 | 1 | RF |
| 254A1240-10 | | 1 | 5C | RF |
| | | 2 | 5B | RF |
| 254A1240-2 | | 1 | 5 | RF |
| 254A1240-3 | | 1 | 1B | RF |
| | | 2 | 1 | RF |
| 254A1240-4 | | 1 | 5A | RF |
| | | 2 | 5 | RF |
| 254A1240-5 | | 2 | 260B | 2 |
| 254A1240-7 | | 1 | 1C | RF |
| | | 2 | 1A | RF |
| 254A1240-8 | | 1 | 5B | RF |
| | | 2 | 5A | RF |
| 254A1240-9 | | 1 | 1D | RF |
| | | 2 | 1B | RF |
| 254A1241-1 | | 1 | 150 | 1 |
| | | 2 | 150 | 1 |
| 254A1241-2 | | 1 | 155 | 1 |
| | | 2 | 155 | 1 |
| 254A1242-1 | | 1 | 365 | 1 |
| | | 2 | 370 | 1 |
| 254A1242-2 | | 1 | 370 | 1 |
| | | 2 | 375 | 1 |
| 254A1243-1 | | 1 | 400 | 1 |

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| PART NUMBER | AIRLINE PART NUMBER | FIGURE | ITEM | UNITS PER ASSEMBLY |
|--------------|---------------------|--------|------|-----------------------|
| | | 2 | 405 | 1 |
| 254A1243-2 | | 1 | 402 | 1 |
| | | 2 | 410 | 1 |
| 254A1244-1 | | 1 | 380 | 1 |
| | | 2 | 385 | 1 |
| 254A1244-2 | | 1 | 382 | 1 |
| | | 2 | 387 | 1 |
| 254A1246-1 | | 1 | 385 | 1 |
| | | 2 | 390 | 1 |
| 254A1247-1 | | 2 | 280 | 1 |
| 254A1247-10 | | 2 | 302B | 1 |
| 254A1247-11 | | 2 | 280B | 1 |
| 254A1247-12 | | 2 | 285B | 1 |
| 254A1247-13 | | 2 | 302F | 1 |
| 254A1247-14 | | 2 | 302C | 1 |
| 254A1247-2 | | 2 | 285 | 1 |
| 254A1247-3 | | 2 | 300A | 1 |
| 254A1247-4 | | 2 | 300E | 1 |
| 254A1247-5 | | 2 | 280A | 1 |
| 254A1247-6 | | 2 | 285A | 1 |
| 254A1247-7 | | 2 | 302D | 1 |
| 254A1247-8 | | 2 | 302A | 1 |
| 254A1247-9 | | 2 | 302E | 1 |
| 254A1248-1 | | 1 | 515 | 1 |
| | | 2 | 510 | 1 |
| 254A1253-1 | | 2 | 535 | 1 |
| 254A1253-2 | | 2 | 540 | 1 |
| 2PB11T2 | | 1 | 240 | 1 |
| | | 2 | 255 | 1 |
| 323912 | | 1 | 345 | 4 |
| 417-2020-901 | | 1 | 450 | 11 |
| | | 2 | 445 | 11 |
| 48-2335-02 | | 1 | 450 | 11 |
| | | 2 | 445 | 11 |
| 48-2335-09 | | 1 | 450 | 11 |

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| PART NUMBER | AIRLINE PART NUMBER | FIGURE | ITEM | UNITS PER ASSEMBLY |
|-------------|---------------------|--------|------|-----------------------|
| | | 2 | 445 | 11 |
| 4AFS428 | | 1 | 495 | 1 |
| | | 2 | 490 | 1 |
| 5804-8-2 | | 1 | 90 | 1 |
| | | 2 | 90 | 1 |
| 60789-2 | | 1 | 265A | 3 |
| | | 1 | 267A | 1 |
| | | 2 | 275B | 3 |
| 63-1440 | | 1 | 85 | 1 |
| | | 2 | 85 | 1 |
| 63-9263 | | 1 | 245 | 1 |
| 640024-1 | | 1 | 265 | 3 |
| | | 1 | 267 | 1 |
| | | 2 | 275 | 3 |
| | | 2 | 275A | 3 |
| 65-45117-13 | | 1 | 315 | 1 |
| | | 2 | 325 | 1 |
| 65-45117-14 | | 1 | 320 | 1 |
| | | 2 | 330 | 1 |
| 65C14183-15 | | 1 | 105 | 1 |
| | | 2 | 105 | 1 |
| 65C14183-16 | | 1 | 110 | 1 |
| | | 2 | 110 | 1 |
| 65C18252-31 | | 2 | 225A | 1 |
| 65C18252-32 | | 2 | 228 | 1 |
| 65C18252-33 | | 2 | 235A | 1 |
| 65C18252-34 | | 2 | 237 | 1 |
| 65C18252-35 | | 2 | 225B | 1 |
| 65C18252-36 | | 2 | 228A | 1 |
| 65C18252-37 | | 2 | 237A | 1 |
| 65C18252-38 | | 2 | 237B | 1 |
| 65C18271-17 | | 1 | 40 | 1 |
| | | 2 | 40 | 1 |
| 65C18271-18 | | 1 | 45 | 1 |
| | | 2 | 45 | 1 |

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| PART NUMBER | AIRLINE PART NUMBER | FIGURE | ITEM | UNITS PER ASSEMBLY |
|-------------|---------------------|--------|------|-----------------------|
| 65C18271-19 | | 1 | 55 | 1 |
| | | 2 | 55 | 1 |
| 65C37366-1 | | 1 | 270 | 1 |
| 65C37366-2 | | 1 | 275 | 1 |
| 65C37366-3 | | 1 | 290 | 1 |
| 65C37366-4 | | 1 | 292 | 1 |
| 66-11520 | | 1 | 70 | 1 |
| | | 2 | 70 | 1 |
| 66-25938-2 | | 2 | 545 | 1 |
| 66-25940-1 | | 1 | 170 | 1 |
| | | 2 | 170 | 1 |
| 66-25941-1 | | 1 | 160 | 2 |
| | | 2 | 160 | 2 |
| 66-25942-1 | | 1 | 185 | 1 |
| | | 2 | 185 | 1 |
| 66-25943-2 | | 1 | 145 | 1 |
| | | 2 | 145 | 1 |
| 66-25945-1 | | 1 | 180 | AR |
| | | 2 | 180 | AR |
| 66-25974-1 | | 1 | 25 | 1 |
| | | 2 | 25 | 1 |
| 66-26135-1 | | 1 | 350 | 1 |
| | | 2 | 355 | 1 |
| 69-1066-2 | | 1 | 95 | 1 |
| | | 2 | 95 | 1 |
| 69-1819-45 | | 1 | 60 | 1 |
| 69-1819-46 | | 1 | 65 | 1 |
| 69-1819-47 | | 2 | 60 | 1 |
| | | 2 | 60A | 1 |
| 69-1819-48 | | 2 | 65 | 1 |
| | | 2 | 65A | 1 |
| 69-1819-49 | | 2 | 60B | 1 |
| 69-1819-50 | | 2 | 65B | 1 |
| 69-35353-1 | | 1 | 330 | 1 |
| | | 2 | 340 | 1 |

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| PART NUMBER | AIRLINE PART NUMBER | FIGURE | ITEM | UNITS PER ASSEMBLY |
|-------------|---------------------|--------|------|-----------------------|
| 69-40892-1 | | 1 | 325 | 1 |
| | | 2 | 335 | 1 |
| 69-69981-5 | | 1 | 165 | 1 |
| | | 2 | 165 | 1 |
| 69-69981-6 | | 1 | 167 | 1 |
| | | 2 | 167 | 1 |
| 69-69983-2 | | 1 | 30 | 2 |
| | | 2 | 30 | 2 |
| 69-69984-11 | | 1 | 120 | 1 |
| 69-69984-12 | | 1 | 125 | 1 |
| 69-69984-15 | | 1 | 140 | 1 |
| | | 2 | 140 | 1 |
| 69-69984-16 | | 1 | 142 | 1 |
| | | 2 | 142 | 1 |
| 69-69984-17 | | 1 | 135 | 1 |
| | | 2 | 135 | 1 |
| 69-69984-19 | | 1 | 120A | 1 |
| | | 2 | 120 | 1 |
| 69-69984-20 | | 1 | 125A | 1 |
| | | 2 | 125 | 1 |
| 69-73206-1 | | 1 | 175 | 1 |
| | | 2 | 175 | 1 |
| 69-73206-3 | | 1 | 175A | 1 |
| | | 2 | 175A | 1 |
| 69-73212-3 | | 1 | 75 | 1 |
| 69-73212-4 | | 1 | 80 | 1 |
| 69-73212-5 | | 2 | 75 | 1 |
| 69-73212-6 | | 2 | 80 | 1 |
| 69-73217-1 | | 2 | 205B | 1 |
| 69-73217-3 | | 1 | 205 | 1 |
| | | 2 | 205 | 1 |
| | | 2 | 205C | 1 |
| 69-73217-4 | | 1 | 215 | 1 |
| | | 2 | 215 | 1 |
| 69-73217-5 | | 2 | 205A | 1 |

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| PART NUMBER | AIRLINE PART NUMBER | FIGURE | ITEM | UNITS PER ASSEMBLY |
|--------------|---------------------|--------|------|-----------------------|
| | | 2 | 205D | 1 |
| 69-73217-6 | | 2 | 215A | 1 |
| 69-73300-1 | | 1 | 255 | 2 |
| | | 2 | 265 | 1 |
| 69-73369-1 | | 1 | 200 | 1 |
| | | 2 | 200 | 1 |
| 69-73827-1 | | 1 | 190 | 1 |
| | | 2 | 190 | 1 |
| 69-76350-2 | | 1 | 305 | 1 |
| | | 2 | 315 | 1 |
| 69-78782-2 | | 1 | 195 | 1 |
| | | 2 | 195 | 1 |
| 69-78783-1 | | 1 | 15 | 1 |
| 69-78783-2 | | 1 | 20 | 1 |
| 69-78783-3 | | 2 | 15 | 1 |
| 69-78783-4 | | 2 | 20 | 1 |
| 69-78783-5 | | 2 | 550 | 1 |
| 69-78783-6 | | 2 | 555 | 1 |
| 69-78783-7 | | 2 | 15A | 1 |
| 69-78783-8 | | 2 | 20A | 1 |
| 69-78784-1 | | 1 | 230 | 1 |
| 69-78784-2 | | 1 | 235 | 1 |
| 69-78784-3 | | 2 | 245 | 1 |
| | | 2 | 250 | 1 |
| 69-78784-4 | | 2 | 252 | 1 |
| 69-78784-5 | | 2 | 245A | 1 |
| | | 2 | 250A | 1 |
| 69-78784-6 | | 2 | 253 | 1 |
| ABR4F6G | | 1 | 520 | 1 |
| | | 2 | 515 | 1 |
| AN316-5R | | 1 | 510 | 1 |
| | | 2 | 505 | 1 |
| BAC27DCT290 | | 1 | 545 | 1 |
| | | 2 | 580 | 1 |
| BAC27DEL1263 | | 1 | 525 | 1 |

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| PART NUMBER | AIRLINE PART NUMBER | FIGURE | ITEM | UNITS PER ASSEMBLY |
|-----------------|---------------------|--------|------|-----------------------|
| | | 2 | 560 | 1 |
| BAC27DEL1264 | | 1 | 530 | 1 |
| | | 2 | 565 | 1 |
| BAC27DEL1265 | | 1 | 535 | 1 |
| | | 2 | 570 | 1 |
| BAC27DEL1266 | | 1 | 540 | 1 |
| | | 2 | 575 | 1 |
| BACB10AC4A | | 1 | 495 | 1 |
| | | 2 | 490 | 1 |
| BACB10AE4 | | 1 | 520 | 1 |
| | | 2 | 515 | 1 |
| BACB10AS25 | | 1 | 310A | 2 |
| BACB10AU37 | | 1 | 395 | 1 |
| | | 2 | 400 | 1 |
| BACB10BX05 | | 1 | 390A | 1 |
| | | 2 | 395A | 1 |
| BACB10FU25RJ | | 2 | 320B | 2 |
| BACB28BA0406013 | | 1 | 470 | 1 |
| | | 2 | 465 | 1 |
| BACB28U3C025 | | 2 | 525 | 1 |
| BACB30VF3K1 | | 1 | 375 | 3 |
| | | 2 | 380 | 3 |
| BACB30VT8K9 | | 1 | 455 | 1 |
| | | 2 | 450 | 1 |
| BACC45FN10-5P8 | | 1 | 425 | 1 |
| | | 2 | 430 | 1 |
| BACC45FN10-5P9 | | 1 | 430 | 1 |
| | | 2 | 435 | 1 |
| BACC45FN12-12P6 | | 1 | 420 | 1 |
| | | 2 | 425 | 1 |
| BACC45FN12-12P9 | | 1 | 415 | 1 |
| | | 2 | 420 | 1 |
| BACC47CN1 | | 1 | 450 | 11 |
| | | 2 | 445 | 11 |
| BACN10JD105 | | 1 | 360 | 1 |

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| PART NUMBER | AIRLINE PART NUMBER | FIGURE | ITEM | UNITS PER ASSEMBLY |
|---------------|---------------------|--------|------|-----------------------|
| | | 2 | 365 | 1 |
| BACN10YR4CD | | 1 | 475 | 1 |
| | | 2 | 470 | 1 |
| BACR15BA3D2C | | 2 | 222 | 3 |
| BACR15BB4D | | 1 | 485 | 2 |
| | | 2 | 480 | 2 |
| BACS12BE02-5 | | 2 | 259 | 2 |
| BACS12BP02CF6 | | 1 | 250A | 2 |
| BACS12BP02HF6 | | 2 | 262 | 1 |
| BACS12BP04AF5 | | 1 | 10C | 4 |
| BACS12BP04AP6 | | 1 | 115C | 2 |
| BACS12BP04F4 | | 2 | 10A | 4 |
| | | 2 | 240A | 2 |
| | | 2 | 530A | 5 |
| BACS12BP04F6 | | 2 | 115C | 2 |
| BACS12BP04HF6 | | 2 | 115A | 2 |
| BACS12BP04P4 | | 1 | 225B | 2 |
| | | 2 | 12 | 1 |
| BACS12BP3P5 | | 1 | 295 | 1 |
| | | 2 | 305 | 1 |
| BACS12BP3P8 | | 1 | 100 | 1 |
| | | 2 | 100 | 1 |
| BACS12FA08K10 | | 2 | 520A | 1 |
| BACT12AC43 | | 1 | 345 | 4 |
| | | 2 | 351 | 4 |
| BACW10CT8C | | 1 | 460 | 1 |
| | | 2 | 455B | 1 |
| BACW10EG8C | | 2 | 455A | 1 |
| C48-2335-02 | | 1 | 450 | 11 |
| | | 2 | 445 | 11 |
| H52732-4CD | | 1 | 475 | 1 |
| | | 2 | 470 | 1 |
| HHKSP4A | | 1 | 495 | 1 |
| | | 2 | 490 | 1 |
| HHRE4F5-1 | | 1 | 520 | 1 |

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| PART NUMBER | AIRLINE PART NUMBER | FIGURE | ITEM | UNITS PER ASSEMBLY |
|--------------|---------------------|--------|------|-----------------------|
| | | 2 | 515 | 1 |
| HST10AG8-9 | | 1 | 455 | 1 |
| | | 1 | 455 | 1 |
| | | 1 | 455 | 1 |
| | | 1 | 455 | 1 |
| | | 2 | 450 | 1 |
| | | 2 | 450 | 1 |
| | | 2 | 450 | 1 |
| | | 2 | 450 | 1 |
| KSP4A2TS | | 1 | 495 | 1 |
| | | 2 | 490 | 1 |
| KSP4AE9440A | | 1 | 495 | 1 |
| | | 2 | 490 | 1 |
| KSP4AFS428 | | 1 | 495 | 1 |
| | | 2 | 490 | 1 |
| KSP4AG27 | | 1 | 495 | 1 |
| | | 2 | 490 | 1 |
| KSP4ASD610 | | 1 | 495 | 1 |
| | | 2 | 490 | 1 |
| LLMB543 | | 1 | 310A | 2 |
| LLMKP37B1 | | 1 | 395 | 1 |
| | | 2 | 400 | 1 |
| LRM20W16F74 | | 1 | 450 | 11 |
| | | 2 | 445 | 11 |
| M83461-1-114 | | 1 | 300 | 1 |
| | | 2 | 310 | 1 |
| MB543-2TS | | 1 | 310A | 2 |
| MB543DD | | 1 | 310A | 2 |
| MB543DDFS428 | | 1 | 310A | 2 |
| MB543DDG20 | | 1 | 310A | 2 |
| MB543DDLY196 | | 1 | 310A | 2 |
| MB543DDSD610 | | 1 | 310 | 2 |
| | | 1 | 310A | 2 |
| | | 2 | 320 | 2 |
| MB543TT | | 1 | 310A | 2 |

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| PART NUMBER | AIRLINE PART NUMBER | FIGURE | ITEM | UNITS PER ASSEMBLY |
|----------------|---------------------|--------|------|-----------------------|
| MKP16BE9273-37 | | 1 | 395 | 1 |
| | | 2 | 400 | 1 |
| МКР37В | | 1 | 395 | 1 |
| | | 2 | 400 | 1 |
| MKP37B2TS | | 1 | 395 | 1 |
| | | 2 | 400 | 1 |
| MKP37B3G20 | | 1 | 395 | 1 |
| | | 2 | 400 | 1 |
| MKP37BFS428 | | 1 | 395 | 1 |
| | | 2 | 400 | 1 |
| MKP37BLY196 | | 1 | 395 | 1 |
| | | 2 | 400 | 1 |
| MKP37BSD610 | | 1 | 395 | 1 |
| | | 2 | 400 | 1 |
| MKP37BTT | | 1 | 395 | 1 |
| | | 2 | 400 | 1 |
| MS16625-4086 | | 1 | 335 | 1 |
| | | 2 | 345 | 1 |
| MS21042L04 | | 1 | 220B | 1 |
| | | 2 | 220 | 1 |
| MS21209C0210 | | 1 | 285 | 2 |
| MS21209C0210P | | 2 | 295A | 2 |
| MS21209C0410 | | 1 | 130 | 1 |
| | | 1 | 210 | 1 |
| | | 1 | 280 | 5 |
| | | 2 | 130 | 1 |
| | | 2 | 210 | 1 |
| MS21209C0410L | | 2 | 230 | 2 |
| MS21209C0410P | | 2 | 251 | 2 |
| | | 2 | 290A | 8 |
| | | 2 | 292A | 1 |
| MS21209C0820P | | 2 | 287 | 1 |
| MS21209F1-10 | | 1 | 50 | 1 |
| | | 2 | 50 | 1 |
| MS21209F1-10P | | 1 | 398 | 3 |

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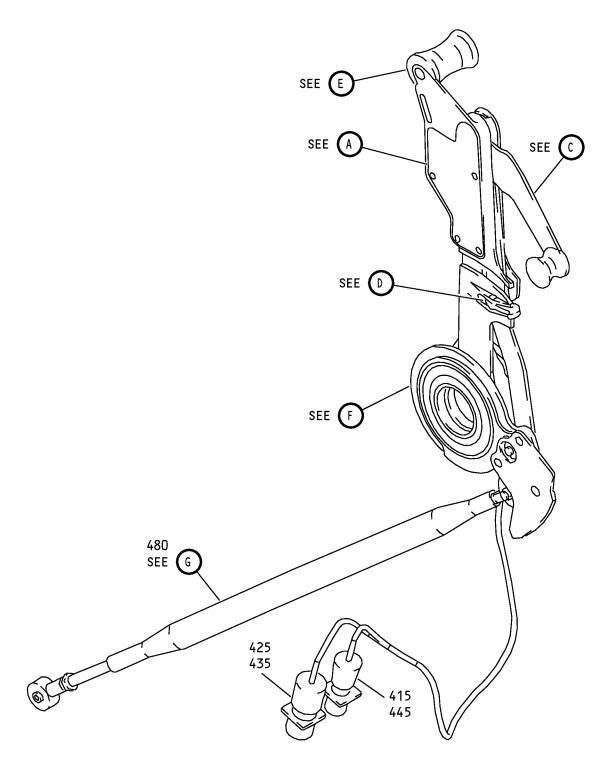


| PART NUMBER | AIRLINE PART NUMBER | FIGURE | ITEM | UNITS PER ASSEMBLY |
|---------------|---------------------|--------|------|-----------------------|
| | | 2 | 402 | 3 |
| MS27291-1 | | 1 | 435 | 1 |
| | | 2 | 442 | 1 |
| MS27291-2 | | 1 | 445 | 1 |
| | | 2 | 440 | 1 |
| MS27291-3 | | 1 | 440 | 1 |
| MS27559-2 | | 2 | 442A | 1 |
| MS27559-3 | | 2 | 440A | 1 |
| MT343E | | 1 | 310A | 2 |
| NAS1149D0416J | | 1 | 465 | 1 |
| | | 2 | 460 | 1 |
| NAS1149D0516J | | 1 | 355 | 1 |
| | | 2 | 360 | 1 |
| NAS514P440-4 | | 2 | 10B | 4 |
| | | 2 | 12A | 1 |
| | | 2 | 240B | 2 |
| | | 2 | 530B | 5 |
| NAS514P440-6P | | 2 | 115B | 2 |
| NAS620C5L | | 2 | 197 | AR |
| P8-400000-3 | | 1 | 340 | 1 |
| P8-4000003 | | 2 | 350A | 1 |
| PLH54CD | | 1 | 475 | 1 |
| | | 2 | 470 | 1 |
| REP4F5-3 | | 1 | 520 | 1 |
| | | 2 | 515 | 1 |
| REP4F5E9171 | | 1 | 520 | 1 |
| | | 2 | 515 | 1 |
| REP4F5FS428 | | 1 | 520 | 1 |
| | | 2 | 515 | 1 |
| W0731-009 | | 2 | 35 | 1 |
| ZZL4020-36LT | | 1 | 450 | 11 |
| | | 2 | 445 | 11 |

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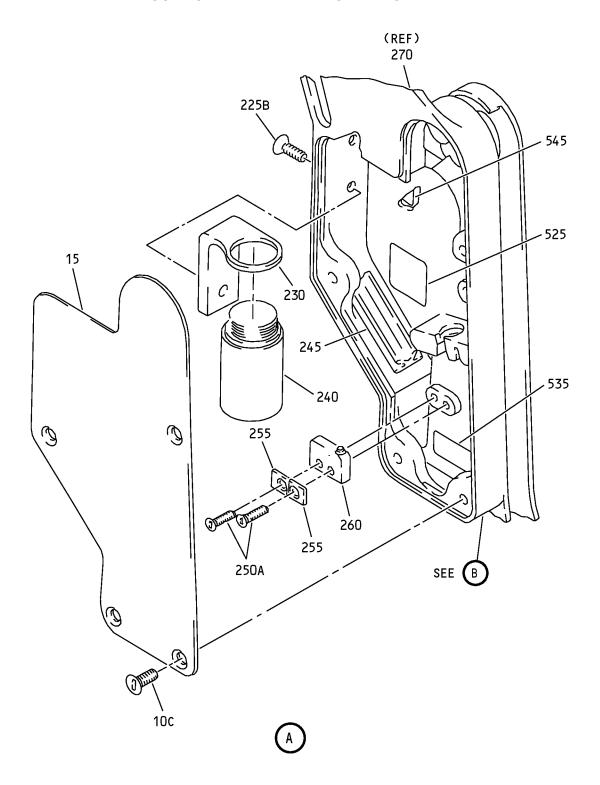


Control Stand Thrust Lever Assembly IPL Figure 1 (Sheet 1 of 7)

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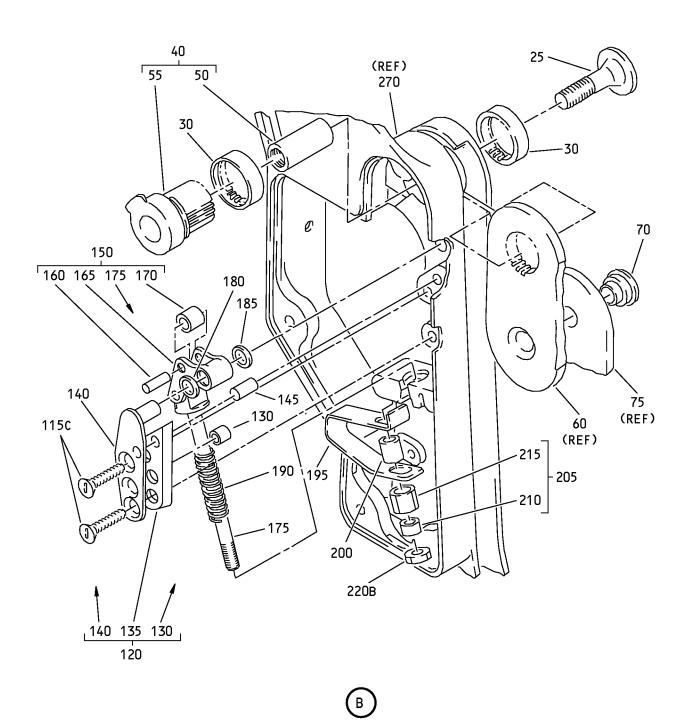


Control Stand Thrust Lever Assembly IPL Figure 1 (Sheet 2 of 7)

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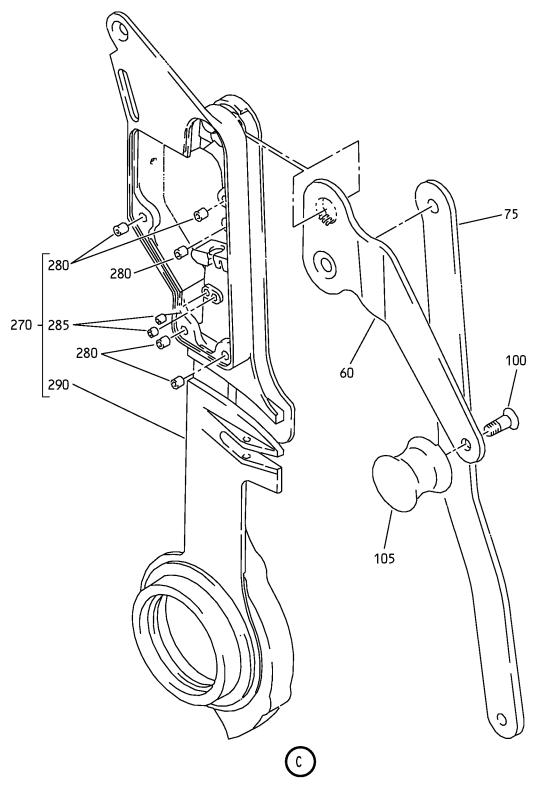


F73011 S00041008719_V2

Control Stand Thrust Lever Assembly IPL Figure 1 (Sheet 3 of 7)

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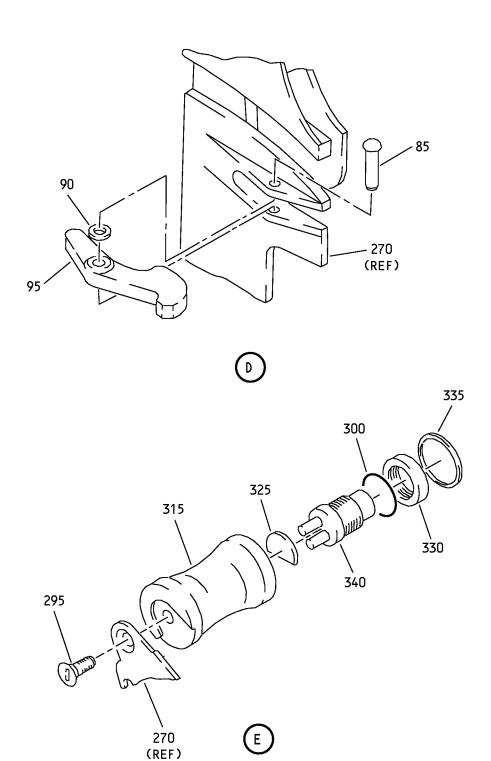


Control Stand Thrust Lever Assembly IPL Figure 1 (Sheet 4 of 7)

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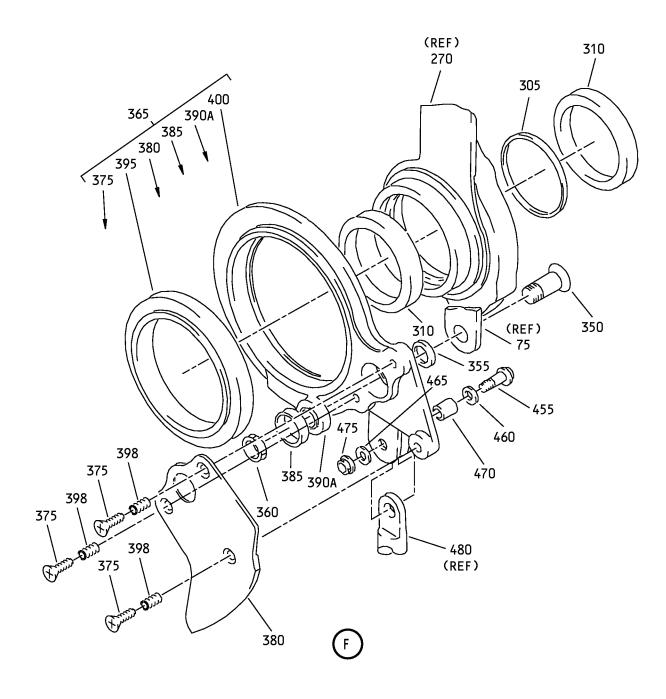
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Control Stand Thrust Lever Assembly IPL Figure 1 (Sheet 5 of 7)

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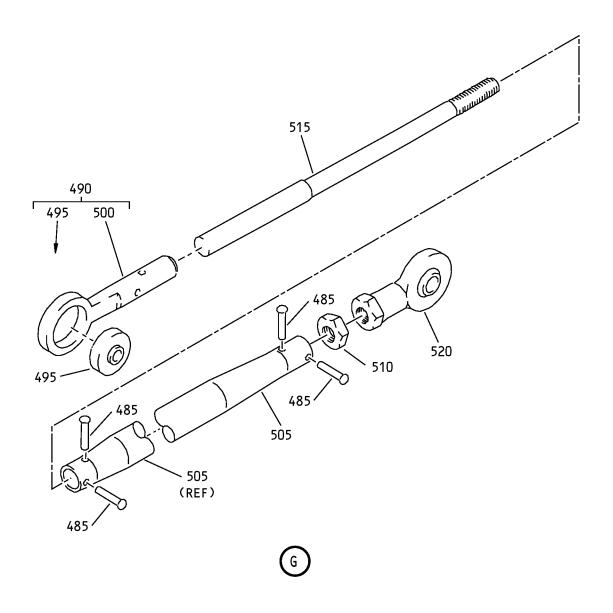


F73023 S00041008722_V2

Control Stand Thrust Lever Assembly IPL Figure 1 (Sheet 6 of 7)

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Control Stand Thrust Lever Assembly IPL Figure 1 (Sheet 7 of 7)

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| FIG/ | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|-----------------|---------------|---------------------------|---|---------------|----------------------|
| 1– | | | | | |
| -1 | 254A1240-1 | | THRUST LEVER ASSY-CONTROL STAND | Α | RF |
| -1B | 254A1240-3 | | THRUST LEVER ASSY-CONTROL STAND (FOR DETAILS SEE FIG. 2) | С | RF |
| -1C | 254A1240-7 | | THRUST LEVER ASSY-CONTROL STAND (FOR DETAILS SEE FIG. 2) | E | RF |
| -1D | 254A1240-9 | | THRUST LEVER ASSY-CONTROL STAND (FOR DETAILS SEE FIG. 2) | G | RF |
| - 5 | 254A1240-2 | | THRUST LEVER ASSY-CONTROL STAND | В | RF |
| –5A | 254A1240-4 | | THRUST LEVER ASSY-CONTROL STAND (FOR DETAILS SEE FIG. 2) | D | RF |
| –5B | 254A1240-8 | | THRUST LEVER ASSY-CONTROL STAND (FOR DETAILS SEE FIG. 2) | F | RF |
| –5C | 254A1240-10 | | THRUST LEVER ASSY-CONTROL STAND (FOR DETAILS SEE FIG. 2) | Н | RF |
| 10 | BACS12BP04HF4 | | DELETED | | |
| 10A | BACS12BP04AF4 | | DELETED | | |
| -10B | BACS12BP04AP5 | | DELETED | | |
| 10C | BACS12BP04AF5 | | . SCREW | A, B | 4 |
| 15 | 69-78783-1 | | . COVER | Α | 1 |
| -15A | 69-78783-3 | | DELETED | | |
| -20 | 69-78783-2 | | . COVER | В | 1 |
| –20A | 69-78783-4 | | DELETED | | |
| 25 | 66-25974-1 | | . SCREW | A, B | 1 |
| 30 | 69-69983-2 | | . BEARING | A, B | 2 |
| 35 | W0731-009 | | DELETED | | |
| 40 | 65C18271-17 | | . CAM ASSY | Α | 1 |
| –45 | 65C18271-18 | | . CAM ASSY | В | 1 |
| 50 | MS21209F1-10 | | INSERT | A, B | 1 |
| 55 | 65C18271-19 | | CAM | A, B | 1 |
| 60 | 69-1819-45 | | . LEVER-REVERSE | Α | 1 |
| - 65 | 69-1819-46 | | . LEVER-REVERSE | В | 1 |
| 70 | 66-11520 | | . RIVET-SPECIAL | А, В | 1 |
| 75 | 69-73212-3 | | . LINK | Α | 1 |

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| FIG/ | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|-------|---------------|---------------------------|-------------------------------------|---------------|----------------------|
| 1- | | | | | |
| -80 | 69-73212-4 | | . LINK | В | 1 |
| 85 | 63-1440 | | . RIVET-SPECIAL | A, B | 1 |
| 90 | 5804-8-2 | | . WASHER (V86928) | А, В | 1 |
| 95 | 69-1066-2 | | . PAWL | A, B | 1 |
| 100 | BACS12BP3P8 | | . SCREW | A, B | 1 |
| 105 | 65C14183-15 | | . KNOB | А | 1 |
| -110 | 65C14183-16 | | . KNOB | В | 1 |
| 115 | BACS12BP04HF5 | | DELETED | | |
| 115A | BACS12BP04AF5 | | DELETED | | |
| -115B | BACS12BP04AP5 | | DELETED | | |
| 115C | BACS12BP04AP6 | | . SCREW | A, B | 2 |
| 120 | 69-69984-11 | | . PLATE ASSY-PIN (OPT ITEM 120A) | A | 1 |
| -120A | 69-69984-19 | | . PLATE ASSY-PIN (OPT ITEM 120) | А | 1 |
| -125 | 69-69984-12 | | . PLATE ASSY-PIN (OPT ITEM 125A) | В | 1 |
| -125A | 69-69984-20 | | . PLATE ASSY-PIN (OPT ITEM 125) | В | 1 |
| 130 | MS21209C0410 | | INSERT | A, B | 1 |
| 135 | 69-69984-17 | | DOUBLER | A, B | 1 |
| 140 | 69-69984-15 | | PLATE | А | 1 |
| -142 | 69-69984-16 | | PLATE | В | 1 |
| 145 | 66-25943-2 | | . DOWEL | A, B | 1 |
| 150 | 254A1241-1 | | . ROLLER ASSY | А | 1 |
| -155 | 254A1241-2 | | . ROLLER ASSY | В | 1 |
| 160 | 66-25941-1 | | PIN | A, B | 2 |
| 165 | 69-69981-5 | | LEVER | Α | 1 |
| -167 | 69-69981-6 | | LEVER | В | 1 |
| 170 | 66-25940-1 | | ROLLER | A, B | 1 |
| 175 | 69-73206-1 | | PLUNGER-SPRING (OPT ITEM 175A) | A, B | 1 |

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| FIG/ | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|-------|---------------|---------------------------|--------------------------------------|---------------|----------------------|
| 1– | | | | | |
| -175A | 69-73206-3 | | PLUNGER-SPRING (OPT ITEM 175) | А, В | 1 |
| 180 | 66-25945-1 | | . SHIM | A, B | AR |
| 185 | 66-25942-1 | | . WASHER | A, B | 1 |
| 190 | 69-73827-1 | | . SPRING | A, B | 1 |
| 195 | 69-78782-2 | | . SPRING | A, B | 1 |
| 200 | 69-73369-1 | | . SPACER | A, B | 1 |
| 205 | 69-73217-3 | | . NUT ASSY | A, B | 1 |
| 210 | MS21209C0410 | | INSERT | A, B | 1 |
| 215 | 69-73217-4 | | NUT | A, B | 1 |
| 220 | BRH10C04D | | DELETED | | |
| –220A | H10-04BAC | | DELETED | | |
| 220B | MS21042L04 | | . NUT | A, B | 1 |
| 225 | BACS12BP04P3 | | DELETED | | |
| 225A | BACS12BP04P5 | | DELETED | | |
| 225B | BACS12BP04P4 | | . SCREW | A, B | 2 |
| 230 | 69-78784-1 | | . MOUNT-SWITCH | А | 1 |
| -230A | 69-78784-3 | | DELETED | | |
| -235 | 69-78784-2 | | . MOUNT-SWITCH | В | 1 |
| –235A | 69-78784-3 | | DELETED | | |
| 240 | 2PB11T2 | | . SWITCH (V91929) | A, B | 1 |
| 245 | 63-9263 | | . BOLLARD | A, B | 1 |
| 250 | BACS12BP02HF6 | | DELETED | | |
| 250A | BACS12BP02CF6 | | . SCREW | A, B | 2 |
| -250B | BACS12BP02AF6 | | DELETED | | |
| 255 | 69-73300-1 | | . PLATE-SWITCH | A, B | 2 |
| 260 | 1SX1H58 | | . SWITCH (V91929) | A, B | 1 |
| -265 | 640024-1 | | . PIN (V18342) (OPT ITEM 265A) | А, В | 3 |

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| FIG/ ITEM | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|--------------|--------------|---------------------------|--|---------------|----------------------|
| 1– | | | | | |
| –265A | 60789-2 | | . PIN (V18342) (OPT ITEM 265) | A, B | 3 |
| -267 | 640024-1 | | . PIN (V18342) (OPT ITEM 267A) | А, В | 1 |
| –267A | 60789-2 | | . PIN (V18342) (OPT ITEM 267) | A, B | 1 |
| 270 | 65C37366-1 | | . LEVER ASSY | Α | 1 |
| –270A | 254A1247-1 | | DELETED | | |
| – 275 | 65C37366-2 | | . LEVER ASSY | В | 1 |
| –275A | 254A1247-2 | | DELETED | | |
| 280 | MS21209C0410 | | INSERT | A, B | 5 |
| 285 | MS21209C0210 | | INSERT | A, B | 2 |
| 290 | 65C37366-3 | | LEVER | Α | 1 |
| -292 | 65C37366-4 | | LEVER | В | 1 |
| 295 | BACS12BP3P5 | | . SCREW | A, B | 1 |
| 300 | M83461-1-114 | | . PACKING | A, B | 1 |
| 305 | 69-76350-2 | | . SPACER-CLAMP-UP | A, B | 1 |
| 310 | MB543DDSD610 | | . BEARING (V83086) (OPT ITEM 310A) | A, B | 2 |
| -310A | MB543DDSD610 | | . BEARING | А, В | 2 |
| 315 | 65-45117-13 | | . KNOB ASSY | Α | 1 |
| -320 | 65-45117-14 | | . KNOB ASSY | В | 1 |
| 325 | 69-40892-1 | | DISC-INSULATING | A, B | 1 |

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| FIG/ | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|------------------|-----------------|---------------------------|--|---------------|----------------------|
| 1– | | | | | |
| 330 | 69-35353-1 | | . RETAINER | A, B | 1 |
| 335 | MS16625-4086 | | . RING | A, B | 1 |
| 340 | P8-400000-3 | | . SWITCH (V21649) | А, В | 1 |
| -345 | 323912 | | . TERMINAL (V00779) (SPEC BACT12AC43) | A, B | 4 |
| 350 | 66-26135-1 | | . BOLT-SPECIAL | A, B | 1 |
| 355 | NAS1149D0516J | | . WASHER | A, B | 1 |
| 360 | BACN10JD105 | | . NUT | A, B | 1 |
| 365 | 254A1242-1 | | . CRANK ASSY | Α | 1 |
| -370 | 254A1242-2 | | . CRANK ASSY | В | 1 |
| 375 | BACB30VF3K1 | | BOLT | A, B | 3 |
| 380 | 254A1244-1 | | CAM | Α | 1 |
| -382 | 254A1244-2 | | CAM | В | 1 |
| 385 | 254A1246-1 | | RETAINER | A, B | 1 |
| 390 | KP5AFS428 | | DELETED | | |
| 390A | BACB10BX05 | | BEARING | A, B | 1 |
| 395 | MKP37BSD610 | | BEARING (V83086) (SPEC BACB10AU37) (OPT MKP37BLY196 (V40920)) (OPT MKP37BTT (V43991)) (OPT MKP37B2TS (V43991)) (OPT MKP16BE9273-37 (V21335)) (OPT LLMKP37B1 (V38443)) (OPT MKP37BFS428 (V21335)) (OPT MKP37B3G20 (V38443)) (OPT MKP37B (V06144)) | A, B | 1 |
| 398 | MS21209F1-10P | | INSERT | A, B | 3 |
| 400 | 254A1243-1 | | CRANK | Α | 1 |
| -402 | 254A1243-2 | | CRANK | В | 1 |
| 405 | 254A1249-1 | | DELETED | | |
| -4 10 | 254A1249-2 | | DELETED | | |
| 415 | BACC45FN12-12P9 | | . CONNECTOR | Α | 1 |
| -420 | BACC45FN12-12P6 | | . CONNECTOR | В | 1 |

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| FIG/ | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|------|-----------------|---------------------------|---|---------------|----------------------|
| 1— | | | | | |
| 425 | BACC45FN10-5P8 | | . CONNECTOR | Α | 1 |
| -430 | BACC45FN10-5P9 | | . CONNECTOR | В | 1 |
| 435 | MS27291-1 | | . STRAIN | Α | 1 |
| -440 | MS27291-3 | | . CLAMP | В | 1 |
| 445 | MS27291-2 | | . CLAMP | A, B | 1 |
| -450 | C48-2335-02 | | . CONTACT (V13556) (SPEC BACC47CN1) (OPT LRM20W16F74 (V09922)) (OPT ZZL4020-36LT (V49367)) (OPT 48-2335-02 (V02660)) (OPT 417-2020-901 (V55104)) (OPT 48-2335-09 (V77820)) | A, B | 11 |
| 455 | HST10AG8-9 | | . BOLT (V0PTK6) (SPEC BACB30VT8K9) (OPT HST10AG8-9 (V06725)) (OPT HST10AG8-9 (V56878)) (OPT HST10AG8-9 (V73197)) | А, В | 1 |
| 460 | BACW10CT8C | | . WASHER | A, B | 1 |
| 465 | NAS1149D0416J | | . WASHER | A, B | 1 |
| 470 | BACB28BA0406013 | | . BUSHING | A, B | 1 |
| 475 | H52732-4CD | | . NUT (V15653) (SPEC BACN10YR4CD) (OPT PLH54CD (V62554)) | A, B | 1 |
| 480 | 250N2004-115 | | . ROD ASSY-CONN. | A, B | 1 |
| 485 | BACR15BB4D | | RIVET | A, B | 2 |
| 490 | 253T1224-1 | | ROD END ASSY | A, B | 1 |
| 495 | KSP4ASD610 | | BEARING (V83086) (SPEC BACB10AC4A) (OPT HHKSP4A (V38443)) (OPT KSP4AE9440A (V21335)) (OPT KSP4AFS428 (V21335)) (OPT KSP4A2TS (V43991)) (OPT KSP4AG27 (V30163)) (OPT 4AFS428 (V21335)) | A, B | 1 |
| 500 | 253T1224-2 | | END | A, B | 1 |

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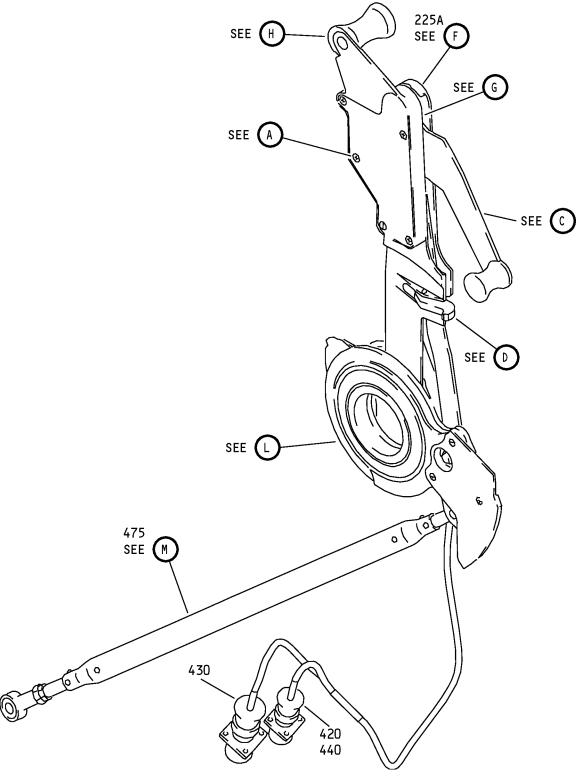
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| FIG/ | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|------|--------------|---------------------------|--|---------------|----------------------|
| 1– | | | | | |
| 505 | 250N2005-115 | | TUBE | A, B | 1 |
| 510 | AN316-5R | | NUT | A, B | 1 |
| 515 | 254A1248-1 | | FITTING | A, B | 1 |
| 520 | REP4F5FS428 | | BEARING (V21335) (SPEC BACB10AE4) (OPT REP4F5-3 (V38443)) (OPT REP4F5E9171 (V21335)) (OPT HHRE4F5-1 (V38443)) (OPT ABR4F6G (VS0350)) | A, B | 1 |
| 525 | BAC27DEL1263 | | . MARKER-S786A & S786B | А | 1 |
| -530 | BAC27DEL1264 | | . MARKER-S787A & S787B | В | 1 |
| 535 | BAC27DEL1265 | | . MARKER-S828 | Α | 1 |
| -540 | BAC27DEL1266 | | . MARKER-S829 | В | 1 |
| 545 | BAC27DCT290 | | . MARKER-ALUMINUM FOIL-AUTO- TAKE OFF AND GO-AROUND | A, B | 1 |



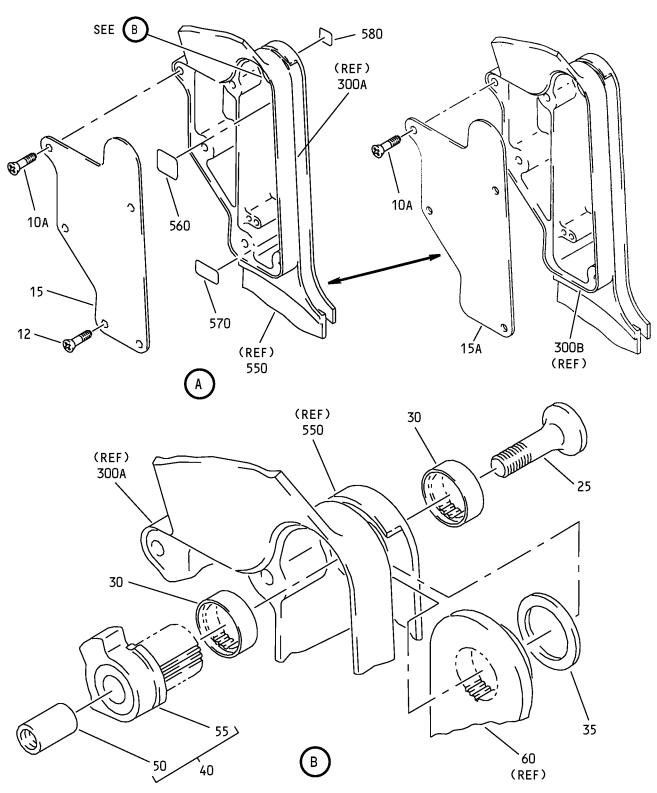


Control Stand Thrust Lever Assembly IPL Figure 2 (Sheet 1 of 11)

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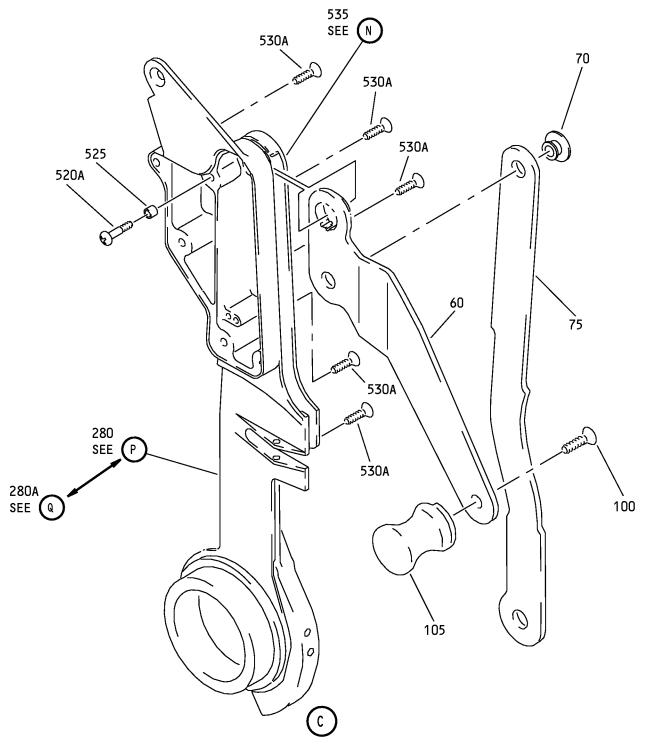


Control Stand Thrust Lever Assembly IPL Figure 2 (Sheet 2 of 11)

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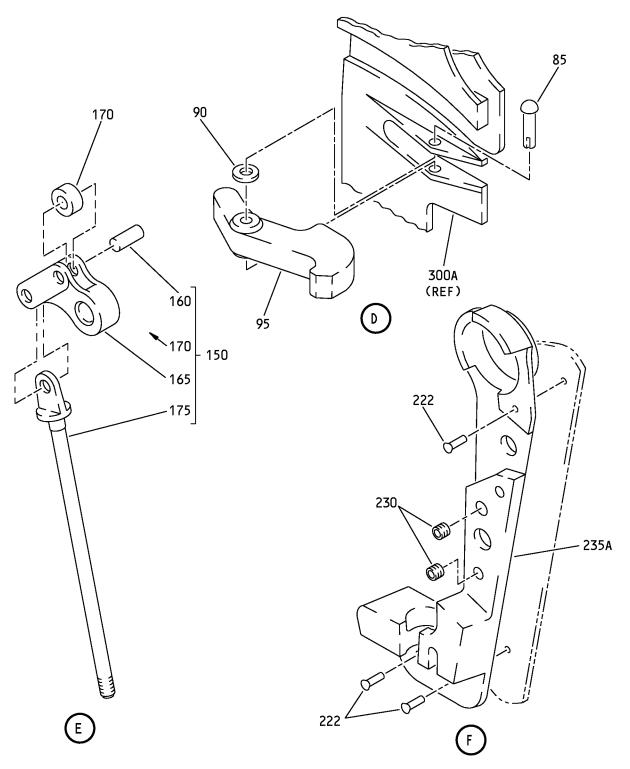
H48100 S00041008728_V2

Control Stand Thrust Lever Assembly IPL Figure 2 (Sheet 3 of 11)

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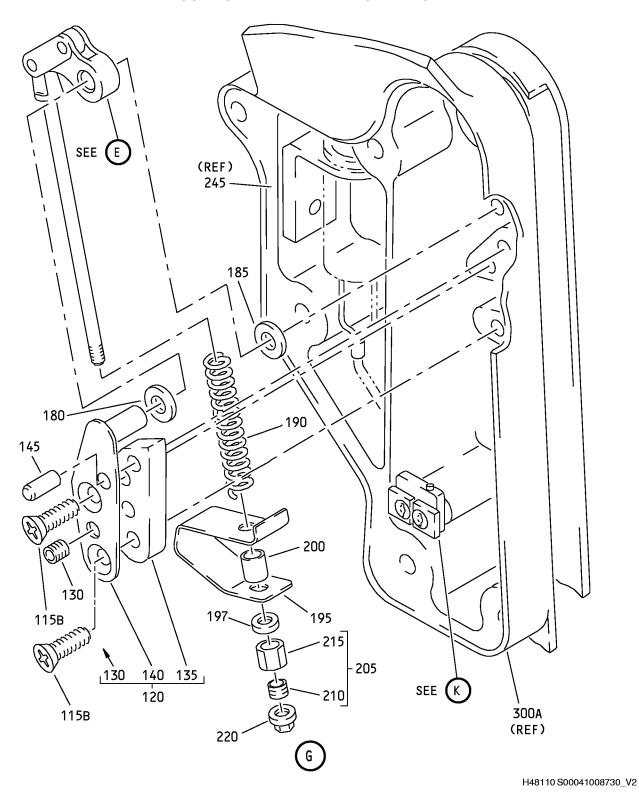
H48105 S00041008729_V2

Control Stand Thrust Lever Assembly IPL Figure 2 (Sheet 4 of 11)

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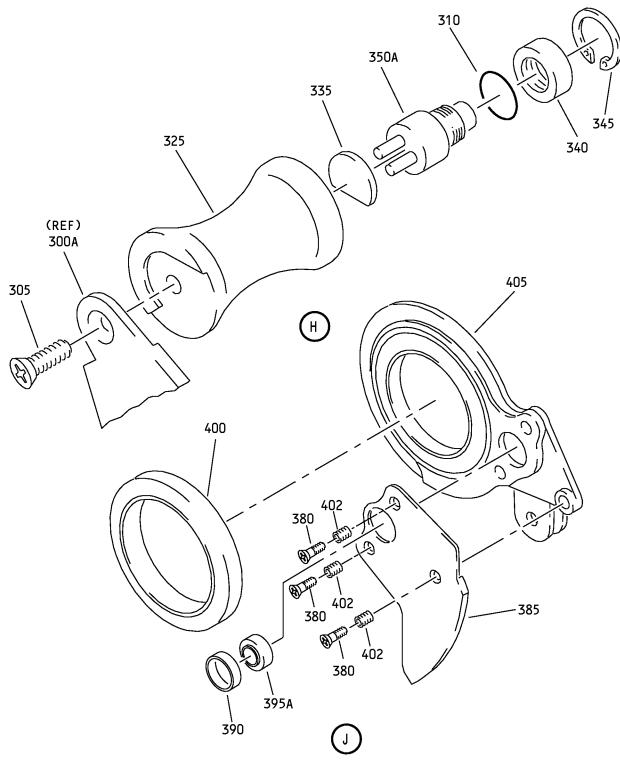


Control Stand Thrust Lever Assembly IPL Figure 2 (Sheet 5 of 11)

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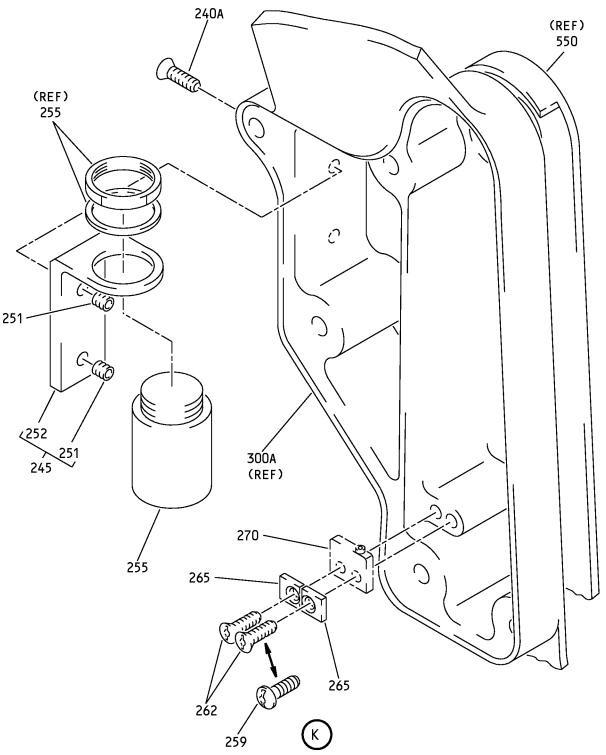
H48122 S00041008731_V2

Control Stand Thrust Lever Assembly IPL Figure 2 (Sheet 6 of 11)

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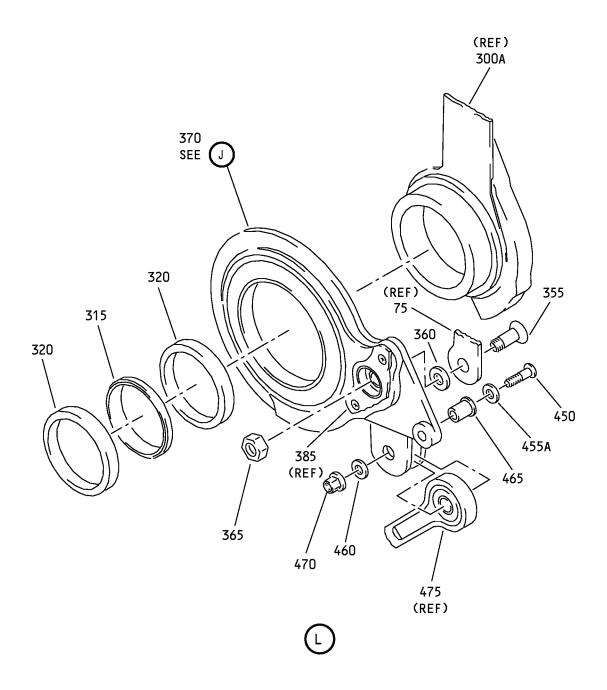
H48124 S00041008732_V2

Control Stand Thrust Lever Assembly IPL Figure 2 (Sheet 7 of 11)

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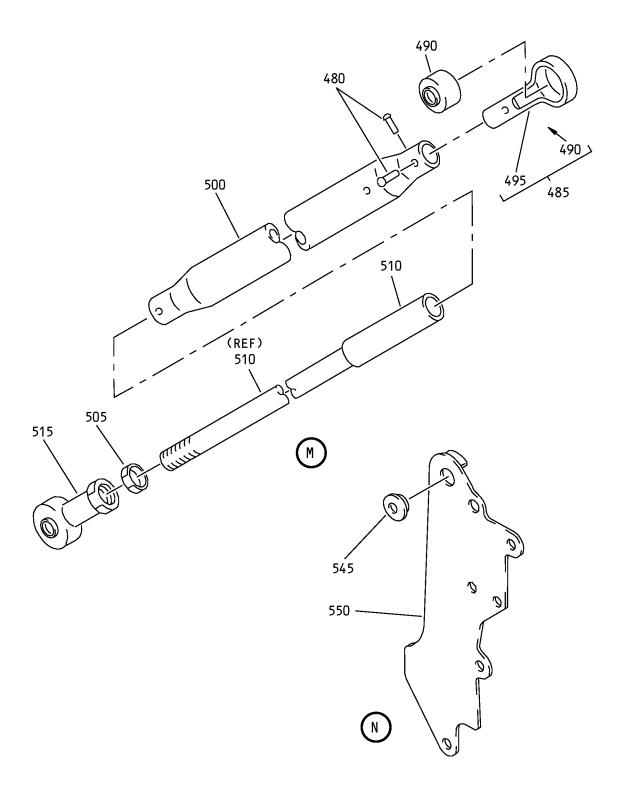


H48129 S00041008733_V2

Control Stand Thrust Lever Assembly IPL Figure 2 (Sheet 8 of 11)

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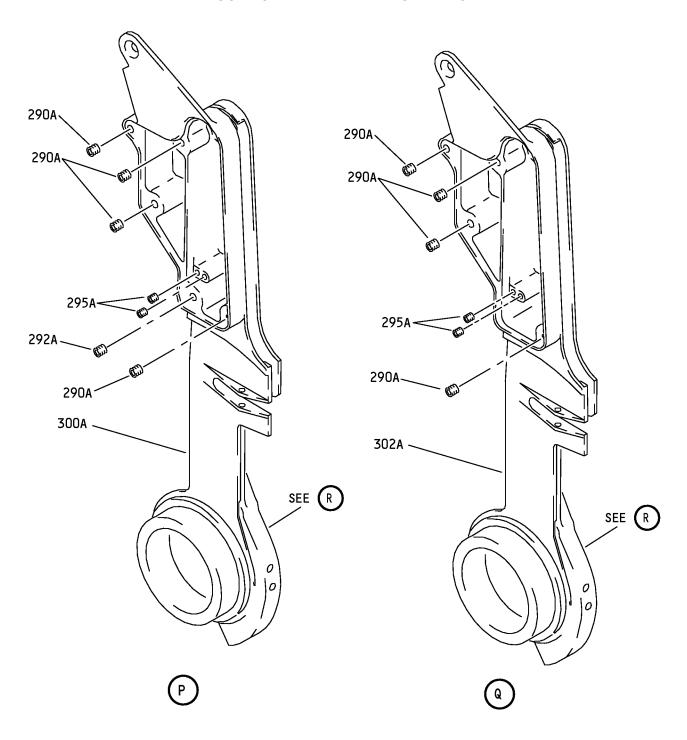


Control Stand Thrust Lever Assembly IPL Figure 2 (Sheet 9 of 11)

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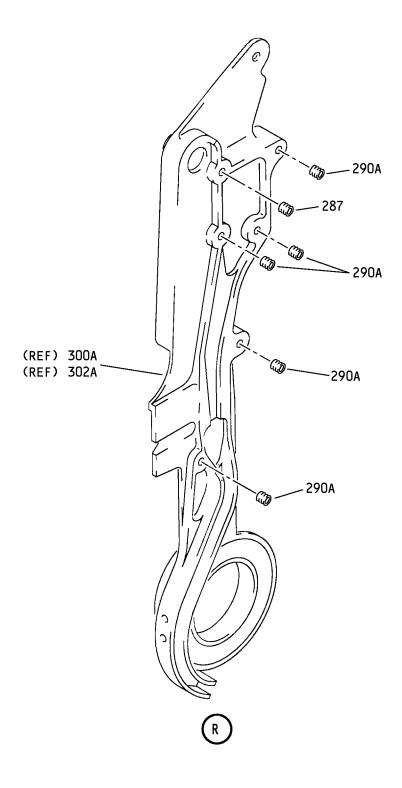


H48134 S00041008735_V2

Control Stand Thrust Lever Assembly IPL Figure 2 (Sheet 10 of 11)

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L41715 S00041008736_V2

Control Stand Thrust Lever Assembly IPL Figure 2 (Sheet 11 of 11)

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| FIG/ | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|------------|--------------|---------------------------|-----------------------------------|---------------|----------------------|
| 2– | | | | | |
| -1 | 254A1240-3 | | THRUST LEVER ASSY-CONTROL STAND | С | RF |
| -1A | 254A1240-7 | | THRUST LEVER ASSY-CONTROL STAND | E | RF |
| –1B | 254A1240-9 | | THRUST LEVER ASSY-CONTROL STAND | G | RF |
| - 5 | 254A1240-4 | | THRUST LEVER ASSY-CONTROL STAND | D | RF |
| -5A | 254A1240-8 | | THRUST LEVER ASSY-CONTROL STAND | F | RF |
| –5B | 254A1240-10 | | THRUST LEVER ASSY-CONTROL STAND | Н | RF |
| 10 | BACS12BP04P4 | | DELETED | | |
| 10A | BACS12BP04F4 | | . SCREW (OPT ITEM 10B) | C-H | 4 |
| -10B | NAS514P440-4 | | . SCREW (OPT ITEM 10A) | C-F | 4 |
| 12 | BACS12BP04P4 | | . SCREW | C, D | 1 |
| -12A | NAS514P440-4 | | . SCREW | C, D | 1 |
| 15 | 69-78783-3 | | . COVER | С | 1 |
| 15A | 69-78783-7 | | . COVER | E, G | 1 |
| -20 | 69-78783-4 | | . COVER | D | 1 |
| -20A | 69-78783-8 | | . COVER | F, H | 1 |
| 25 | 66-25974-1 | | . SCREW | С-Н | 1 |
| 30 | 69-69983-2 | | . BEARING | С-Н | 2 |
| 35 | W0731-009 | | . WASHER (V83553) | C-H | 1 |
| 40 | 65C18271-17 | | . CAM ASSY | C, E, G | 1 |
| -45 | 65C18271-18 | | . CAM ASSY | D, F, H | 1 |
| 50 | MS21209F1-10 | | INSERT | C-F | 1 |
| 55 | 65C18271-19 | | CAM | C-F | 1 |
| 60 | 69-1819-47 | | . LEVER-REVERSE | С | 1 |
| -60A | 69-1819-47 | | . LEVER-REVERSE (OPT ITEM 60B) | E, G | 1 |
| -60B | 69-1819-49 | | . LEVER-REVERSE (OPT ITEM 60A) | E, G | 1 |
| -65 | 69-1819-48 | | . LEVER-REVERSE | D | 1 |
| -65A | 69-1819-48 | | . LEVER-REVERSE (OPT ITEM 65B) | F, H | 1 |

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| FIG/ | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|-------|---------------|---------------------------|-----------------------------------|---------------|----------------------|
| 2– | | | | | |
| -65B | 69-1819-50 | | . LEVER-REVERSE (OPT ITEM 65A) | F, H | 1 |
| 70 | 66-11520 | | . RIVET-SPECIAL | C-H | 1 |
| 75 | 69-73212-5 | | . LINK | C, E, G | 1 |
| -80 | 69-73212-6 | | . LINK | D, F, H | 1 |
| 85 | 63-1440 | | . RIVET-SPECIAL | C-H | 1 |
| 90 | 5804-8-2 | | . WASHER (V86928) | C-H | 1 |
| 95 | 69-1066-2 | | . PAWL | C-H | 1 |
| 100 | BACS12BP3P8 | | . SCREW | C-H | 1 |
| 105 | 65C14183-15 | | . KNOB | C, E, G | 1 |
| -110 | 65C14183-16 | | . KNOB | D, F, H | 1 |
| 115 | BACS12BP04HF5 | | DELETED | | |
| 115A | BACS12BP04HF6 | | . SCREW (OPT ITEM 155B) | C-H | 2 |
| -115B | NAS514P440-6P | | . SCREW (OPT ITEM 155C) | C-H | 2 |
| -115C | BACS12BP04F6 | | . SCREW (OPT ITEM 155B) | C-H | 2 |
| 120 | 69-69984-19 | | . PLATE ASSY-PIN | C, E, G | 1 |
| -120A | 69-69984-11 | | DELETED | | |
| -125 | 69-69984-20 | | . PLATE ASSY-PIN | D, F, H | 1 |
| -125A | 69-69984-12 | | DELETED | | |
| 130 | MS21209C0410 | | INSERT | C-H | 1 |
| 135 | 69-69984-17 | | DOUBLER | C-H | 1 |
| 140 | 69-69984-15 | | PLATE | C, E, G | 1 |
| -142 | 69-69984-16 | | PLATE | D, F, H | 1 |
| 145 | 66-25943-2 | | . DOWEL | C-H | 1 |
| 150 | 254A1241-1 | | . ROLLER ASSY | C, E, G | 1 |
| -155 | 254A1241-2 | | . ROLLER ASSY | D, F, H | 1 |
| 160 | 66-25941-1 | | PIN | C-H | 2 |
| 165 | 69-69981-5 | | LEVER | C, E, G | 1 |
| -167 | 69-69981-6 | | LEVER | D, F, H | 1 |

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| FIG/ ITEM | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|--------------|--------------|---------------------------|-------------------------------------|---------------|----------------------|
| 2– | | | | | |
| 170 | 66-25940-1 | | ROLLER | С-Н | 1 |
| 175 | 69-73206-1 | | PLUNGER-SPRING (OPT ITEM 175A) | C-H | 1 |
| -175A | 69-73206-3 | | PLUNGER-SPRING (OPT ITEM 175) | C-H | 1 |
| 180 | 66-25945-1 | | . SHIM | С-Н | AR |
| 185 | 66-25942-1 | | . WASHER | C-H | 1 |
| 190 | 69-73827-1 | | . SPRING | С-Н | 1 |
| 195 | 69-78782-2 | | . SPRING | С-Н | 1 |
| 197 | NAS620C5L | | . WASHER | G, H | AR |
| 200 | 69-73369-1 | | . SPACER | C-H | 1 |
| 205 | 69-73217-3 | | . NUT ASSY (OPT ITEM 205A) | C-F | 1 |
| –205A | 69-73217-5 | | . NUT ASSY (OPT ITEM 205) | C-F | 1 |
| –205B | 69-73217-1 | | . NUT ASSY (OPT ITEM 205C, 205D) | G, H | 1 |
| -205C | 69-73217-3 | | . NUT ASSY (OPT ITEM 205B, 205D) | G, H | 1 |
| –205D | 69-73217-5 | | . NUT ASSY (OPT ITEM 205B, 205C) | G, H | 1 |
| 210 | MS21209C0410 | | INSERT | C-F | 1 |
| 215 | 69-73217-4 | | NUT (USED ON ITEM 205) | C-F | 1 |
| –215A | 69-73217-6 | | NUT (USED ON ITEM 205A) | C-F | 1 |
| 220 | MS21042L04 | | . NUT | С-Н | 1 |
| 222 | BACR15BA3D2C | | . RIVET | С-Н | 3 |
| 225 | 65C18252-27 | | DELETED | | |
| 225A | 65C18252-31 | | . HOUSING ASSY | C, E | 1 |
| 225B | 65C18252-35 | | . HOUSING ASSY | G | 1 |
| -227Z | 65C18252-32 | | DELETED | | |
| 228 | 65C18252-32 | | . HOUSING ASSY | D, F | 1 |
| –228A | 65C18252-36 | | . HOUSING ASSY | Н | 1 |

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| | FIG/ | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|---|-------|---------------|---------------------------|--|---------------|----------------------|
| | 2– | | | | | |
| | 230 | MS21209C0410L | | INSERT | C-F | 2 |
| | 235 | 65C18252-29 | | DELETED | | |
| | 235A | 65C18252-33 | | HOUSING | C, E | 1 |
| | -237 | 65C18252-34 | | HOUSING | D, F | 1 |
| I | –237A | 65C18252-37 | | HOUSING | G | 1 |
| I | –237B | 65C18252-38 | | HOUSING | Н | 1 |
| | 240 | BACS12BP04P4 | | DELETED | | |
| | 240A | BACS12BP04F4 | | . SCREW (OPT ITEM 240B) | C-H | 2 |
| | –240B | NAS514P440-4 | | . SCREW (OPT ITEM 240A) | C-H | 2 |
| | 245 | 69-78784-3 | | . MOUNT ASSY-SWITCH (OPT ITEM 245A) | C, E, G | 1 |
| | –245A | 69-78784-5 | | . MOUNT ASSY-SWITCH (OPT ITEM 245) | C, E, G | 1 |
| | -250 | 69-78784-3 | | . MOUNT ASSY-SWITCH (OPT ITEM 250A) | D, F, H | 1 |
| | –250A | 69-78784-5 | | . MOUNT ASSY-SWITCH (OPT ITEM 250) | D, F, H | 1 |
| | 251 | MS21209C0410P | | INSERT | C-H | 2 |
| | 252 | 69-78784-4 | | MOUNT (USED ON ITEMS 245,250) | C-H | 1 |
| | -253 | 69-78784-6 | | MOUNT (USED ON ITEMS 245A,250A) | C-H | 1 |
| | 255 | 2PB11T2 | | . SWITCH (V91929) | C-H | 1 |
| | 259 | BACS12BE02-5 | | . SCREW (OPT ITEM 260B) | C-H | 2 |
| | 260 | BACS12BP02HF6 | | DELETED | | |
| | 260A | BACS12BP02-5 | | DELETED | | |
| | -260B | 254A1240-5 | | . KIT ASSY-SUBSTITUTE (OPT ITEM 260A) | C-H | 2 |
| | 262 | BACS12BP02HF6 | | SCREW | C-F | 1 |
| | 265 | 69-73300-1 | | PLATE-SWITCH | C-F | 1 |

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| FIG/ | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|-------|---------------|---------------------------|--------------------------------------|---------------|----------------------|
| 2– | | | | | |
| 270 | 1SX1H58 | | . SWITCH (V91929) | C-F | 1 |
| -275 | 640024-1 | | . PIN (V00779) | C, D | 3 |
| -275A | 640024-1 | | . PIN (V00779) (OPT ITEM 275B) | E-H | 3 |
| –275B | 60789-2 | | . PIN (V00779) (OPT ITEM 275A) | E-H | 3 |
| 280 | 254A1247-1 | | . LEVER ASSY | С | 1 |
| 280A | 254A1247-5 | | . LEVER ASSY | E | 1 |
| -280B | 254A1247-11 | | . LEVER ASSY | G | 1 |
| -285 | 254A1247-2 | | . LEVER ASSY | D | 1 |
| -285A | 254A1247-6 | | . LEVER ASSY | F | 1 |
| -285B | 254A1247-12 | | . LEVER ASSY | н | 1 |
| 287 | MS21209C0820P | | INSERT | C-H | 1 |
| 290 | MS21209C0410 | | DELETED | | |
| 290A | MS21209C0410P | | INSERT | C-H | 8 |
| 292 | MS21209C0410 | | DELETED | | |
| 292A | MS21209C0410P | | INSERT | C, D | 1 |
| 295 | MS21209C0210 | | DELETED | | |
| 295A | MS21209C0210P | | INSERT | C-H | 2 |
| 300 | 65C37366-3 | | DELETED | | |
| 300A | 254A1247-3 | | LEVER | С | 1 |
| -300B | 254A1247-7 | | DELETED | | |
| -300C | 254A1247-9 | | DELETED | | |
| -300D | 254A1247-13 | | DELETED | | |
| -300E | 254A1247-4 | | LEVER | D | 1 |
| -302 | 254A1247-4 | | DELETED | | |
| -302A | 254A1247-8 | | LEVER (OPT ITEM 302B) | F | 1 |
| -302B | 254A1247-10 | | LEVER (OPT ITEM 302A) | F | 1 |

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| FIG/ ITEM | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|--------------|---------------|---------------------------|--|---------------|----------------------|
| 2– | | | | | |
| -302C | 254A1247-14 | | LEVER | н | 1 |
| -302D | 254A1247-7 | | LEVER (OPT ITEM 302E) | E | 1 |
| -302E | 254A1247-9 | | LEVER (OPT ITEM 302D) | E | 1 |
| -302F | 254A1247-13 | | LEVER (OPT ITEM 302A) | G | 1 |
| 305 | BACS12BP3P5 | | . SCREW | C-H | 1 |
| 310 | M83461-1-114 | | . PACKING | C-H | 1 |
| 315 | 69-76350-2 | | . SPACER-CLAMP-UP | C-H | 1 |
| 320 | MB543DDSD610 | | . BEARING (V83086) (OPT ITEM 320B) | C-H | 2 |
| -320A | MB543DDSD610 | | DELETED | | |
| -320B | BACB10FU25RJ | | . BEARING (OPT ITEM 320) | С-Н | 2 |
| 325 | 65-45117-13 | | . KNOB ASSY | C, E, G | 1 |
| -330 | 65-45117-14 | | . KNOB ASSY | D, F, H | 1 |
| 335 | 69-40892-1 | | DISC-INSULATING | C-H | 1 |
| 340 | 69-35353-1 | | . RETAINER | C-H | 1 |
| 345 | MS16625-4086 | | . RING | C-H | 1 |
| 350 | P8-400000-3 | | DELETED | | |
| 350A | P8-4000003 | | . SWITCH (V21649) | С-Н | 1 |
| 351 | BACT12AC43 | | . TERMINAL | C-H | 4 |
| 355 | 66-26135-1 | | . BOLT-SPECIAL | C-H | 1 |
| 360 | NAS1149D0516J | | . WASHER | C-H | 1 |
| 365 | BACN10JD105 | | . NUT | C-H | 1 |
| 370 | 254A1242-1 | | . CRANK ASSY | C, E, G | 1 |
| -375 | 254A1242-2 | | . CRANK ASSY | D, F, H | 1 |
| 380 | BACB30VF3K1 | | BOLT | C-H | 3 |
| 385 | 254A1244-1 | | CAM | C, E, G | 1 |
| -387 | 254A1244-2 | | CAM | D, F, H | 1 |
| 390 | 254A1246-1 | | RETAINER | C-H | 1 |

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| FIG/ | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|------------------|-----------------|---------------------------|--|---------------|----------------------|
| 2– | | | | | |
| 395 | KP5AFS428 | | DELETED | | |
| 395A | BACB10BX05 | | BEARING | C-H | 1 |
| 400 | MKP37BSD610 | | BEARING (V83086) (SPEC BACB10AU37) (OPT MKP37BLY196 (V40920)) (OPT MKP37BTT (V43991)) (OPT MKP37B2TS (V43991)) (OPT MKP16BE9273-37 (V21335)) (OPT LLMKP37B1 (V38443)) (OPT MKP37BFS428 (V21335)) (OPT MKP37B3G20 (V38443)) (OPT MKP37B (V06144)) | C-H | 1 |
| 402 | MS21209F1-10P | | INSERT | C-H | 3 |
| 405 | 254A1243-1 | | CRANK | C, E, G | 1 |
| -4 10 | 254A1243-2 | | CRANK | D, F, H | 1 |
| 420 | BACC45FN12-12P9 | | . CONNECTOR | C, E, G | 1 |
| -425 | BACC45FN12-12P6 | | . CONNECTOR | D, F, H | 1 |
| 430 | BACC45FN10-5P8 | | . CONNECTOR | C, E, G | 1 |
| -435 | BACC45FN10-5P9 | | . CONNECTOR | D, F, H | 1 |
| 440 | MS27291-2 | | . CLAMP | C, E, G | 1 |
| -440A | MS27559-3 | | . SUPPORT | D, F, H | 1 |
| 442 | MS27291-1 | | . STRAIN | C, E, G | 1 |
| -442A | MS27559-2 | | . BACKSHELL | D, F, H | 1 |
| -445 | C48-2335-02 | | . CONTACT (V13556) (SPEC BACC47CN1) (OPT LRM20W16F74 (V09922)) (OPT ZZL4020-36LT (V49367)) (OPT 48-2335-02 (V02660)) (OPT 417-2020-901 (V55104)) (OPT 48-2335-09 (V77820)) | C-H | 11 |
| 450 | HST10AG8-9 | | . BOLT (V0PTK6) (SPEC BACB30VT8K9) (OPT HST10AG8-9 (V06725)) (OPT HST10AG8-9 (V56878)) (OPT HST10AG8-9 (V73197)) | C-H | 1 |
| 455 | BACW10CT8C | | DELETED | | |

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| FIG/ ITEM | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|--------------|-----------------|---------------------------|---|---------------|----------------------|
| 2– | | | | | |
| 455A | BACW10EG8C | | . WASHER | C-D | 1 |
| 455B | BACW10CT8C | | . WASHER | E-H | 1 |
| 460 | NAS1149D0416J | | . WASHER | C-H | 1 |
| 465 | BACB28BA0406013 | | . BUSHING | C-H | 1 |
| 470 | H52732-4CD | | . NUT (V15653) (SPEC BACN10YR4CD) (OPT PLH54CD (V62554)) | С-Н | 1 |
| 475 | 250N2004-115 | | . ROD ASSY-CONN. | C-H | 1 |
| 480 | BACR15BB4D | | RIVET | C-H | 2 |
| 485 | 253T1224-1 | | ROD END ASSY | C-H | 1 |
| 490 | KSP4ASD610 | | BEARING (V83086) (SPEC BACB10AC4A) (OPT HHKSP4A (V38443)) (OPT KSP4AE9440A (V21335)) (OPT KSP4AFS428 (V21335)) (OPT KSP4A2TS (V43991)) (OPT KSP4AG27 (V30163)) (OPT 4AFS428 (V21335)) | C-H | 1 |
| 495 | 253T1224-2 | | END | C-H | 1 |
| 500 | 250N2005-115 | | TUBE | C-H | 1 |
| 505 | AN316-5R | | NUT | C-H | 1 |
| 510 | 254A1248-1 | | FITTING | C-H | 1 |
| 515 | REP4F5FS428 | | BEARING (V21335) (SPEC BACB10AE4) (OPT REP4F5-3 (V38443)) (OPT REP4F5E9171 (V21335)) (OPT HHRE4F5-1 (V38443)) (OPT ABR4F6G (VS0350)) | C-H | 1 |
| 520 | BACS10FA08K10 | | DELETED | | |
| 520A | BACS12FA08K10 | | . SCREW | C-H | 1 |
| 525 | BACB28U3C025 | | . BUSHING | C-H | 1 |
| 530 | BACS12BP04P4 | | DELETED | | |
| 530A | BACS12BP04F4 | | . SCREW (OPT ITEM 530B) | C-H | 5 |

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| FIG/ | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|--------------|--------------|---------------------------|--|---------------|----------------------|
| 2– | | | | | |
| -530B | NAS514P440-4 | | . SCREW (OPT ITEM 530A) | C-H | 5 |
| 535 | 254A1253-1 | | . COVER ASSY | C, E, G | 1 |
| -540 | 254A1253-2 | | . COVER ASSY | D, F, H | 1 |
| 545 | 66-25938-2 | | BUSHING | C-H | 1 |
| 550 | 69-78783-5 | | COVER | C, E, G | 1 |
| - 555 | 69-78783-6 | | COVER | D, F, H | 1 |
| 560 | BAC27DEL1263 | | . MARKER-S786A & S786B | C, E, G | 1 |
| -565 | BAC27DEL1264 | | . MARKER-S787A & S787B | D, F, H | 1 |
| 570 | BAC27DEL1265 | | . MARKER-S828 | C, E, G | 1 |
| <i>–</i> 575 | BAC27DEL1266 | | . MARKER-S829 | D, F, H | 1 |
| 580 | BAC27DCT290 | | . MARKER-ALUMINUM FOIL-AUTO- TAKE OFF AND GO-AROUND | C-H | 1 |