



COMPONENT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS LIST

TAIL SKID INSTALLATION

**PART NUMBER
148A7201-1, -2**

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**COMPONENT MAINTENANCE MANUAL**

Revision No. 8
Jul 01/2009

To: All holders of TAIL SKID INSTALLATION 32-71-15.

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.

Pages replaced or made obsolete by this revision should be removed and destroyed.

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TRANSMITTAL LETTER

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Location of Change

Description of Change

NO HIGHLIGHTS

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HIGHLIGHTS

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A = Added, R = Revised, D = Deleted, O = Overflow

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**COMPONENT MAINTENANCE MANUAL****TEMPORARY REVISION AND SERVICE BULLETIN RECORD**

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVE	DATE OF INCORPORATION INTO MANUAL

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TR AND SB RECORD

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All revisions to this manual will be accompanied by transmittal sheet bearing the revision number. Enter the revision number in numerical order, together with the revision date, the date filed and the initials of the person filing.

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COMPONENT MAINTENANCE MANUAL

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 alpha-variant. 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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INTRODUCTION

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COMPONENT MAINTENANCE MANUAL

TAIL SKID INSTALLATION - DESCRIPTION AND OPERATION

1. Tail Skid Installation

A. Description

- (1) The tail skid installation includes a skid assembly and a cartridge assembly.

B. Operation

- (1) The tail skid installation absorbs forces during an accidental tail strike.

C. Leading Particulars (Approximate)

- (1) Length – 25 inches
- (2) Width – 12 inches
- (3) Height – 18 inches

D. Weight – 20 pounds

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DESCRIPTION AND OPERATION

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TESTING AND FAULT ISOLATION

(NOT APPLICABLE)

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TESTING AND FAULT ISOLATION

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DISASSEMBLY

(NOT APPLICABLE)

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DISASSEMBLY

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CLEANING

(NOT APPLICABLE)

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CLEANING

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CHECK

1. General

- A. This procedure has the necessary data to find defects in the specified parts.
- 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 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 a magnetic or penetrant check if the visual check shows possible defects.
- (2) Do a magnetic particle check (SOPM 20-20-01) of these parts:
 - (a) Female Rod (IPL Figure 1; 90), (IPL Figure 2; 75).
 - (b) Male Rod (IPL Figure 1; 105), (IPL Figure 2; 90).
- (3) Do a penetrant check (SOPM 20-20-02) of these parts:
 - (a) Drag Link (IPL Figure 1; 255), (IPL Figure 2; 235).

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CHECK

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**COMPONENT MAINTENANCE MANUAL****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
148A7250	DRAG LINK ASSEMBLY	2-1, 2-2
148A7261	UPPER ROD END ASSEMBLY	3-1, 3-2
148A7261	LOWER ROD END ASSEMBLY	4-1, 4-2
65C32977	FEMALE ROD ASSEMBLY	5-1, 5-2
65C32977	MALE ROD ASSEMBLY	6-1, 6-2

2. Dimensioning Symbols

- A. Standard True Position Dimensioning Symbols used in the applicable repair procedures are shown in SOPM 20-00-00.

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REPAIR - GENERAL

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REFINISH OF OTHER PARTS - REPAIR 1-1

1. General

- A. This procedure has the data necessary to repair the initial finish of the parts, which are not given in the specified repairs.
- 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 item numbers.

2. Refinish

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
C00033	Coating - Exterior Protective Enamel, Flexibility Use	BMS10-60, Type II
C00175	Primer - Urethane Compatible, Corrosion Resistant (Less Than 1% Aromatic Amines)	BMS10-79, Type III

B. References

Reference	Title
SOPM 20-30-02	STRIPPING OF PROTECTIVE FINISHES
SOPM 20-41-01	DECODING TABLE FOR BOEING FINISH CODES
SOPM 20-50-10	APPLICATION OF STENCILS, INSIGNIA, SILK SCREEN, PART NUMBERING AND IDENTIFICATION MARKINGS
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 are for replacement of the original finish.

Table 601: Refinish details

IPL FIG. & ITEM	MATERIAL	FINISH
IPL Fig. 1		
Skirt Assembly (260)	Aluminum alloy	Chemical treat (F-17.07) all surfaces Applyprimer, C00175 (F-19.47) to all surfaces. Apply enamel coating, C00033 (F-19.39-707) to the exterior surfaces only.
		Make sure that the part identification number is visible after refinish procedures. Repair markings (SOPM 20-50-10) as shown in REPAIR 1-1, Figure 601.
IPL Figure 2		

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REPAIR 1-1

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**COMPONENT MAINTENANCE MANUAL****Table 601:** Refinish details (Continued)

IPL FIG. & ITEM	MATERIAL	FINISH
Skirt Assembly (240)	Aluminum alloy	Chemical treat (F-17.07) all surfaces Apply primer, C00175 (F-19.66) to all surfaces. Apply enamel coating, C00033 (F-19.39-707) to the exterior surfaces only.
		Make sure that the part identification number is visible after refinish procedures. Repair markings (SOPM 20-50-10) as shown in REPAIR 1-1, Figure 601.

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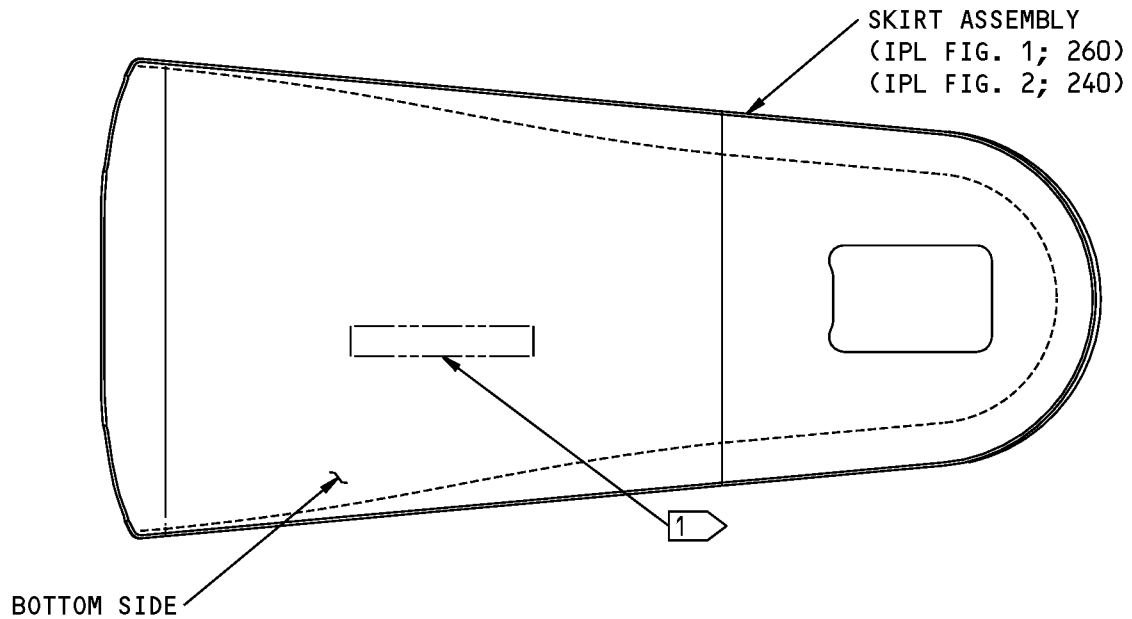
REPAIR 1-1

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1 PART MARK THIS AREA

148A7255-1,-4 Skirt Assembly - Refinish
Figure 601

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REPAIR 1-1
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DRAG LINK ASSEMBLY - REPAIR 2-1

148A7250-2, -6

1. General

- A. This procedure has the necessary data to replace the pads, the bearings and bushings of the drag link assembly (IPL Figure 1; 220), (IPL Figure 2; 200).
- 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 item numbers.

2. Pad Replacement

- A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
A00551	Sealant - Fuel Tank	BAC5010, Type 44 (BMS5-44, BMS5-45)

- B. References

Reference	Title
SOPM 20-60-04	MISCELLANEOUS MATERIALS

- C. Procedure (REPAIR 2-1, Figure 601, REPAIR 2-1, Figure 602)

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

- (1) Remove the old pads (IPL Figure 1; 235), (IPL Figure 2; 215).
- (2) Bond replacement pads to the drag link at the locations shown with sealant, A00551.

3. Bearing Replacement

- A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS 5-95

- B. References

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

- C. Procedure (REPAIR 2-1, Figure 601, REPAIR 2-1, Figure 602)

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

- (1) Remove the bearings from the drag link.

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REPAIR 2-1

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- (2) Install replacement bearings with sealant, A00247 and roller swage them 0.005-0.009 inch deep (SOPM 20-50-03).

4. **Bushing Replacement**

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS 5-95

B. References

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

C. Procedure (REPAIR 2-1, Figure 601, REPAIR 2-1, Figure 602)

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

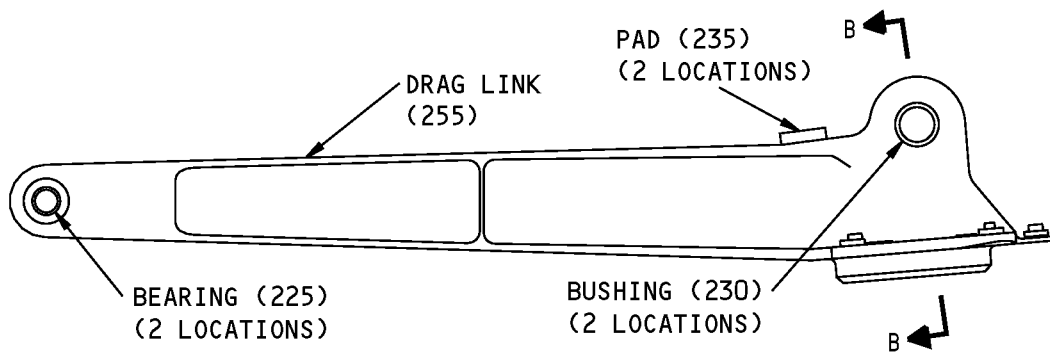
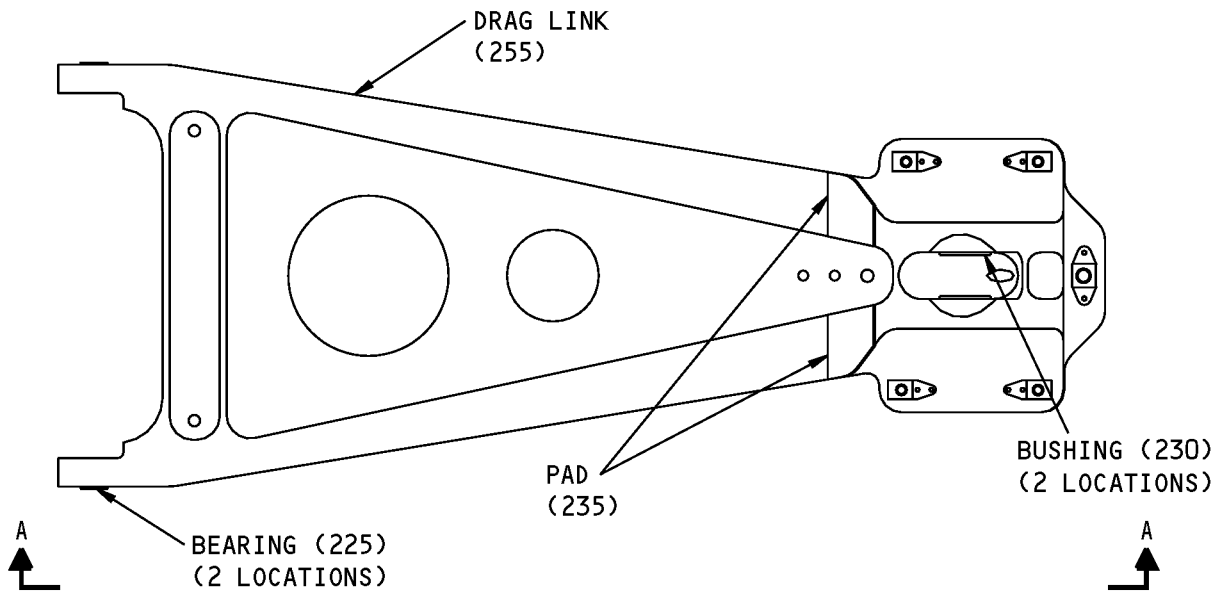
- (1) Remove the old bushings from the drag link.
- (2) If you find defects on link surfaces, refer to REPAIR 2-2 for repair instructions.
- (3) Install replacement bushings with sealant, A00247 by the shrink-fit method (SOPM 20-50-03).
- (4) Machine the bushing bores to design dimensions and finish.

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A-A

148A7250-2 Drag Link Assembly Bushing/Bearing Replacement
Figure 601 (Sheet 1 of 2)

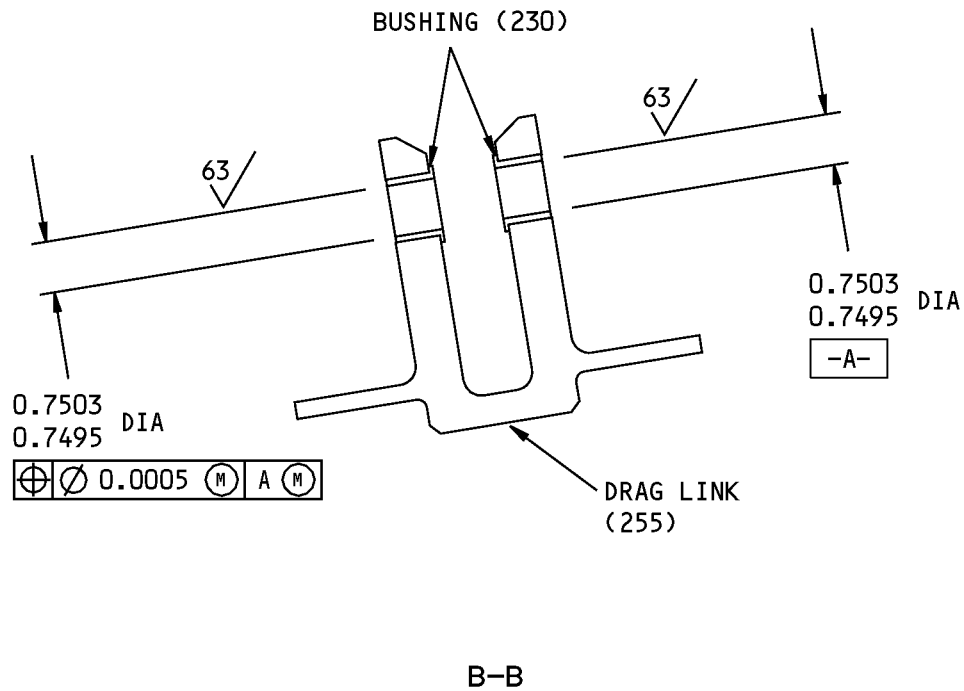
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REPAIR 2-1
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125/ ALL MACHINED SURFACES UNLESS
SHOWN DIFFERENTLY

BREAK ALL SHARP EDGES

ITEM NUMBERS REFER TO IPL FIG. 1

ALL DIMENSIONS ARE IN INCHES

148A7250-2 Drag Link Assembly Bushing/Bearing Replacement
Figure 601 (Sheet 2 of 2)

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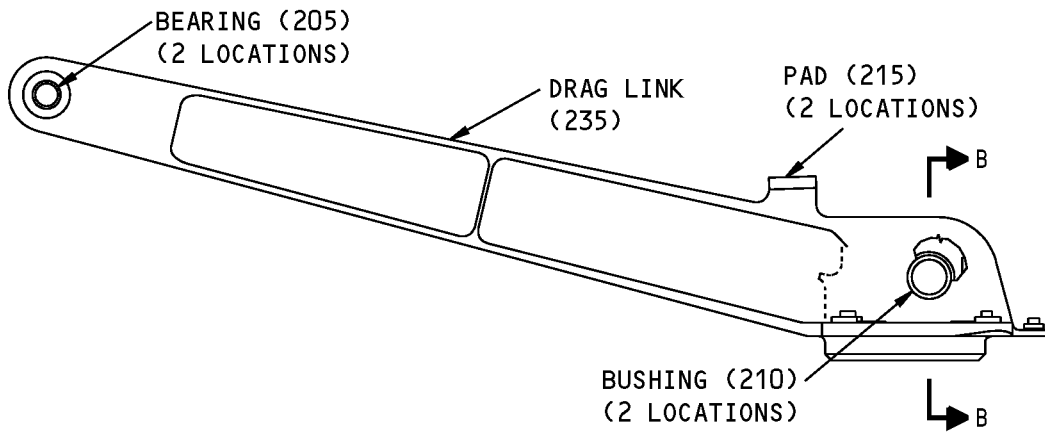
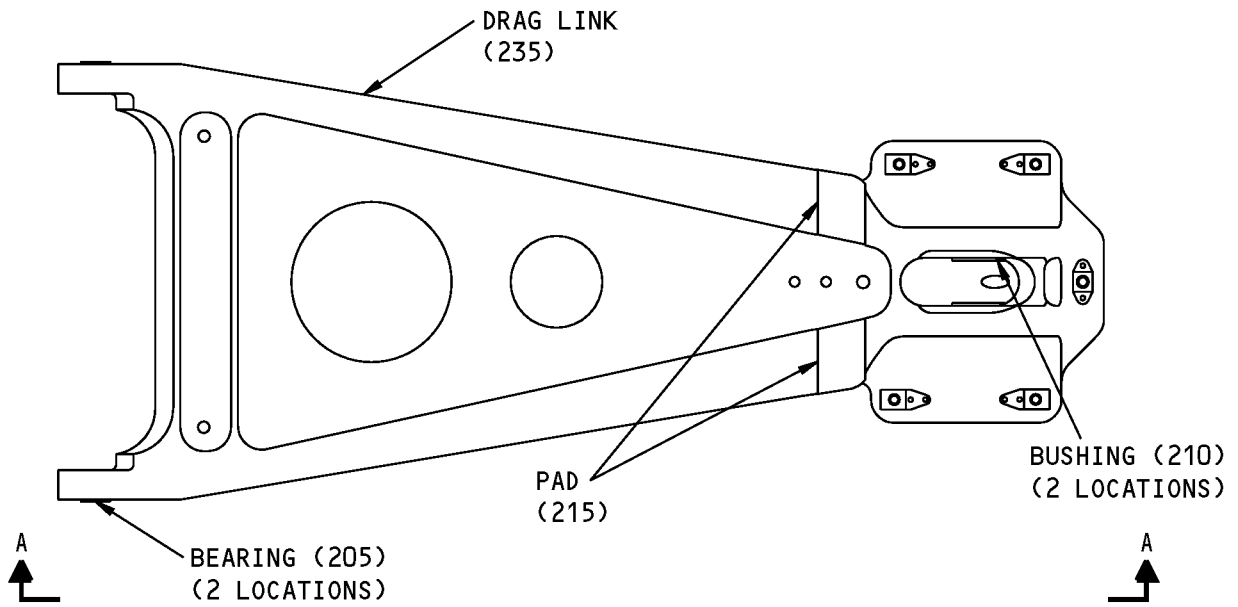
REPAIR 2-1

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A-A

148A7250-6 Drag Link Assembly Bushing/Bearing Replacement
Figure 602 (Sheet 1 of 2)

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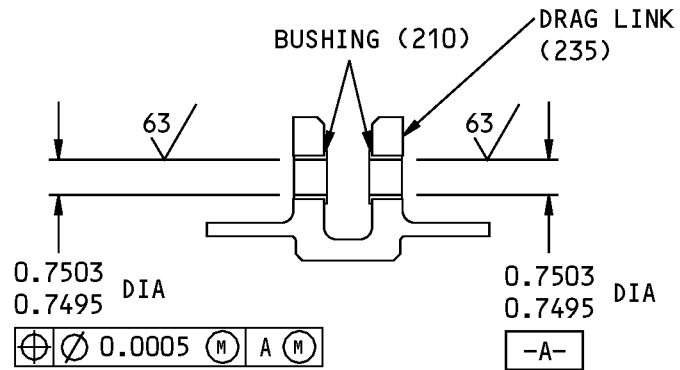
REPAIR 2-1

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B-B

125/√ ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY

BREAK ALL SHARP EDGES

ITEM NUMBERS REFER TO IPL FIG. 2

ALL DIMENSIONS ARE IN INCHES

148A7250-6 Drag Link Assembly Bushing/Bearing Replacement
Figure 602 (Sheet 2 of 2)

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REPAIR 2-1

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DRAG LINK - REPAIR 2-2

148A7250-3, -7

1. General

- A. This procedure has the necessary data to refinish the drag link (IPL Figure 1; 255), (IPL Figure 2, 235).
- 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 item numbers.

2. Refinish

- A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
C00175	Primer - Urethane Compatible, Corrosion Resistant (Less Than 1% Aromatic Amines)	BMS10-79, Type III
C00700	Coating - Exterior Protective Enamel, Gray Gloss Enamel	BMS10-60, Type I, BAC 707

- B. References

Reference	Title
SOPM 20-30-02	STRIPPING OF PROTECTIVE FINISHES
SOPM 20-41-01	DECODING TABLE FOR BOEING FINISH CODES
SOPM 20-50-10	APPLICATION OF STENCILS, INSIGNIA, SILK SCREEN, PART NUMBERING AND IDENTIFICATION MARKINGS
SOPM 20-60-02	FINISHING MATERIALS

- C. Procedure (REPAIR 2-2, Figure 601, REPAIR 2-2, Figure 602)

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 or chromic acid anodize (F-17.35). Apply primer, C00175 (F-19.47) but not in the holes for the bearings or bushings.
- (2) Apply enamel coating, C00700 (F-14.9813, which replaces SRF-14.9813) to the areas shown.
- (3) Make sure that the part identification number is visible after repair and refinish procedures. If necessary, repair the markings (SOPM 20-50-10).

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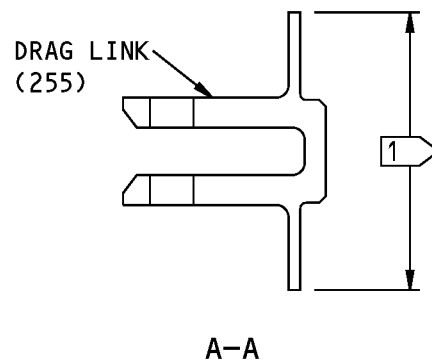
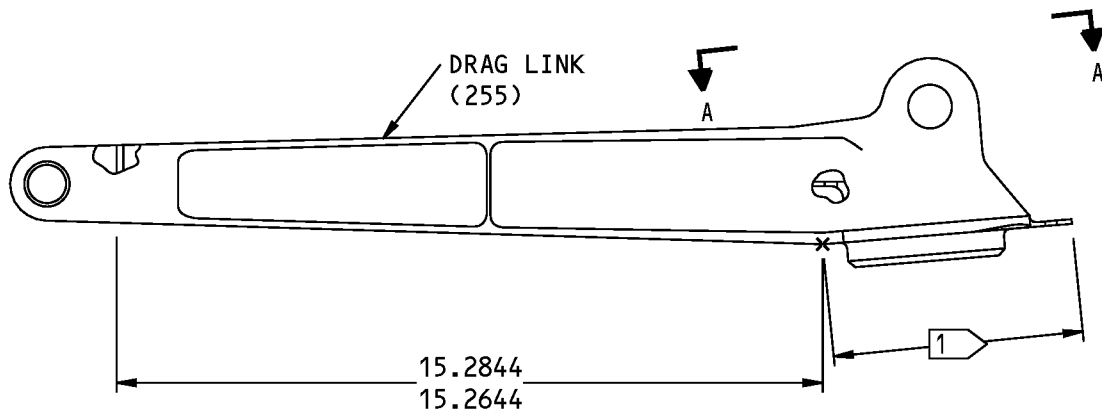
REPAIR 2-2

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1 APPLY BMS 10-60 ENAMEL (F-14.9813)

125/ ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY

BREAK ALL SHARP EDGES

ITEM NUMBERS REFER TO IPL FIG. 1

ALL DIMENSIONS ARE IN INCHES

148A7250-3 Drag Link Repair
Figure 601

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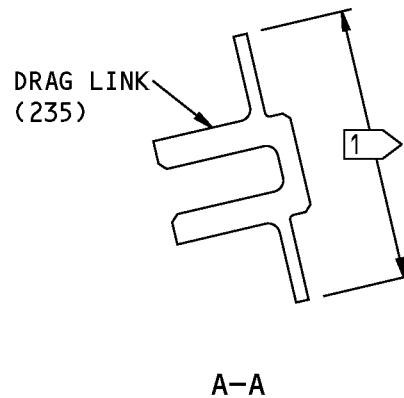
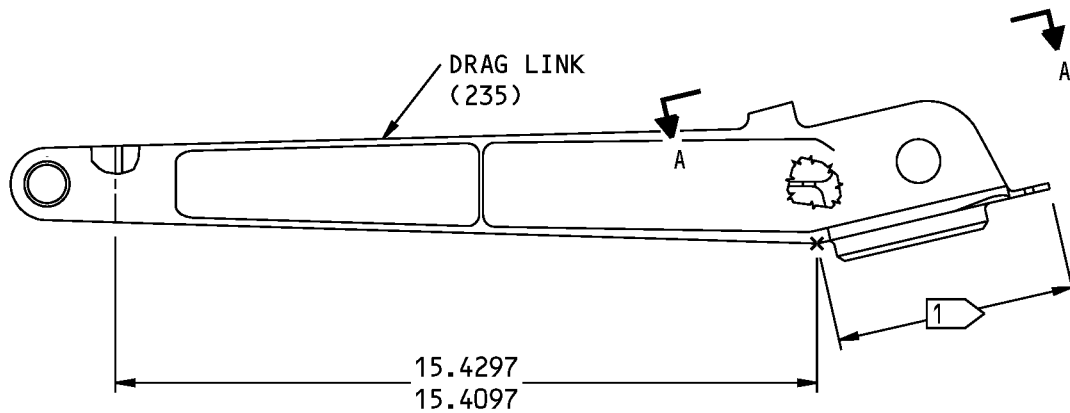
REPAIR 2-2

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COMPONENT MAINTENANCE MANUAL



1 APPLY BMS 10-60 ENAMEL (F-14.9813)

125 ✓ ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY

BREAK ALL SHARP EDGES

ITEM NUMBERS REFER TO IPL FIG. 2

ALL DIMENSIONS ARE IN INCHES

148A7250-7 Drag Link Repair
Figure 602

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REPAIR 2-2

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UPPER ROD END ASSEMBLY - REPAIR 3-1

148A7261-1

1. General

- A. This procedure has the necessary data to replace the bearing and the bushing in the upper rod end assembly (IPL Figure 2; 60).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in the procedure.
- C. Refer to IPL Figure 2 for item numbers.

2. Bearing Replacement

A. References

Reference	Title
SOPM 20-50-03	BEARING AND BUSHING REPLACEMENT

B. Procedure (REPAIR 3-1, Figure 601)

- (1) Remove the old bearing (65) from the rod end.
- (2) If you find defects on the rod end, refer to REPAIR 3-2 for repair instructions.
- (3) Install a replacement bearing and roller swage it (SOPM 20-50-03).

3. Bushing Replacement

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
D00113	Lubricant - Liquid Dispersed Solid Film Lubricant	BMS3-8, BAC 5811, TYPE VIII

B. References

Reference	Title
SOPM 20-50-03	BEARING AND BUSHING REPLACEMENT
SOPM 20-50-08	APPLICATION OF BONDED SOLID FILM LUBRICANTS

C. Procedure (REPAIR 3-1, Figure 601)

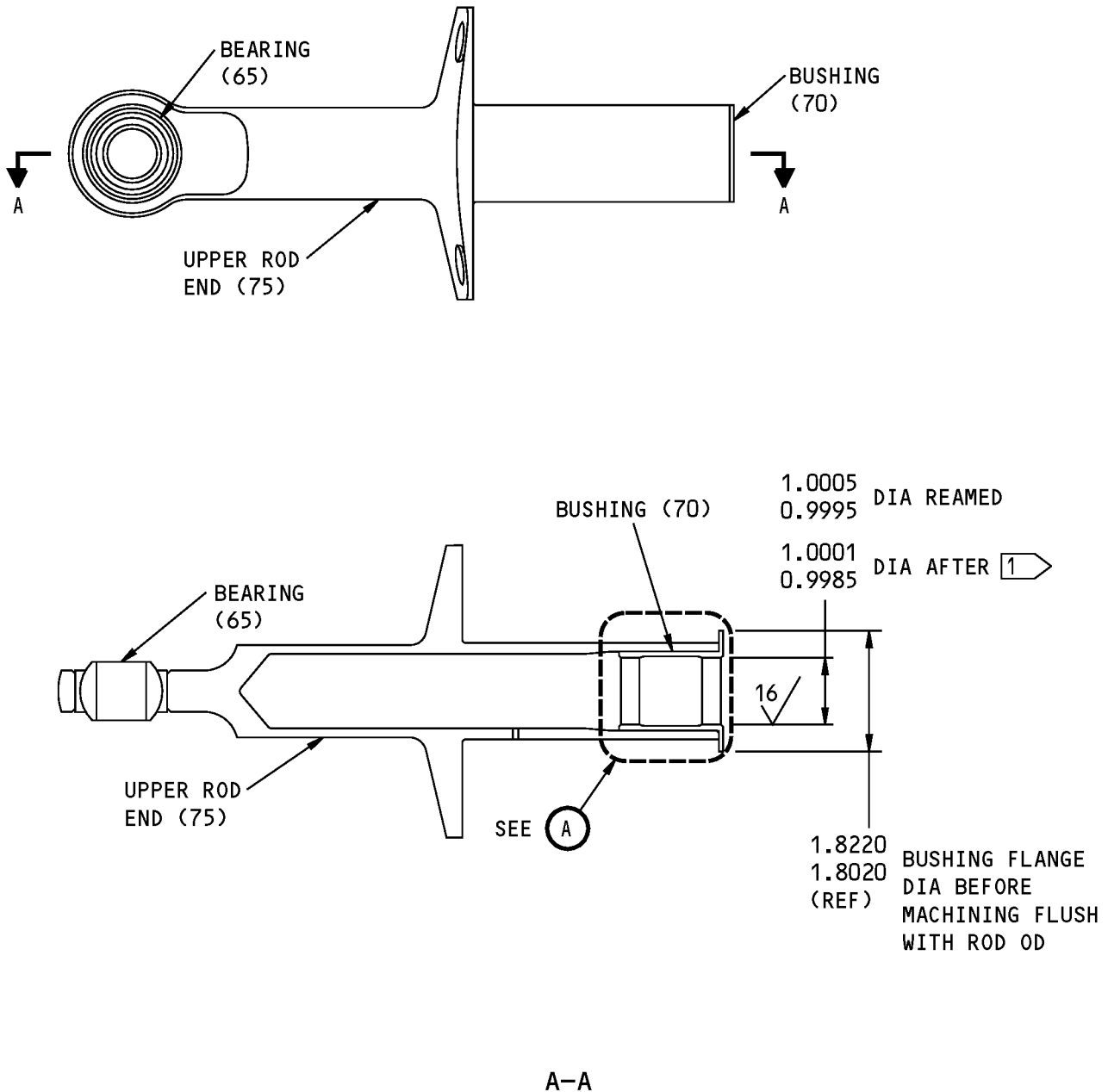
- (1) Remove the old bushing (70) from the rod end.
- (2) If you find defects on the rod end, refer to REPAIR 3-2 for repair instructions.
- (3) Install a replacement bushing by the shrink-fit method (SOPM 20-50-03).
- (4) Machine the bushing flange OD flush with the mating rod OD, as shown.
- (5) Machine the bushing bore to the dimensions and finish shown.
- (6) Apply lubricant, D00113 to the bushing bore surfaces as as shown (SOPM 20-50-08).

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REPAIR 3-1

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COMPONENT MAINTENANCE MANUAL

148A7261-1 Upper Rod End Assembly Bushing/Bearing Replacement
Figure 601 (Sheet 1 of 2)

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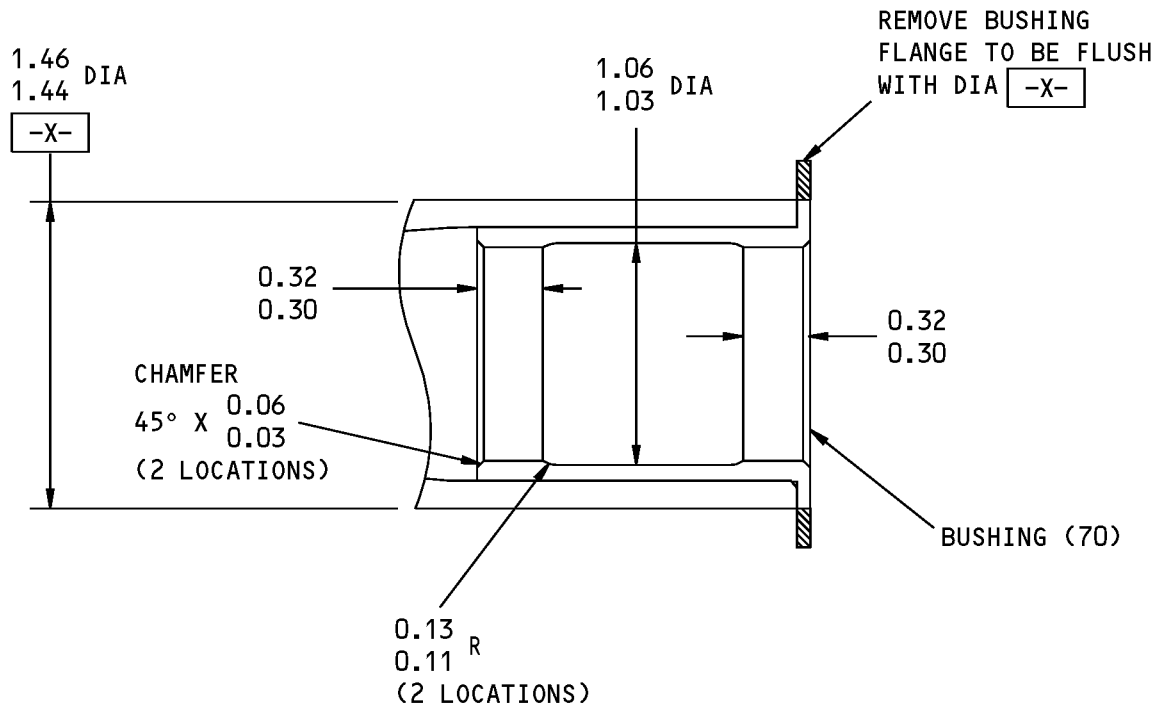
REPAIR 3-1

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COMPONENT MAINTENANCE MANUAL



A

1 APPLY BMS 3-8 SOLID FLIM
LUBRICANT (F-19.10)

16/ ALL MACHINED SURFACES UNLESS
SHOWN DIFFERENTLY

BREAK ALL SHARP EDGES

ITEM NUMBERS REFER TO IPL FIG. 2

ALL DIMENSIONS ARE IN INCHES

148A7261-1 Upper Rod End Assembly Bushing/Bearing Replacement
Figure 601 (Sheet 2 of 2)

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REPAIR 3-1

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COMPONENT MAINTENANCE MANUAL

UPPER ROD END FITTING - REPAIR 3-2

148A7261-2

1. General

- A. This procedure has the necessary data to refinish the upper rod end fitting (IPL Figure 2; 75).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in the procedure.
- C. Refer to IPL Figure 2 for item numbers.

2. 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

- B. References

Reference	Title
SOPM 20-30-02	STRIPPING OF PROTECTIVE FINISHES
SOPM 20-41-01	DECODING TABLE FOR BOEING FINISH CODES
SOPM 20-50-10	APPLICATION OF STENCILS, INSIGNIA, SILK SCREEN, PART NUMBERING AND IDENTIFICATION MARKINGS
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) Apply cadmium plate (F-16.06), but not in the holes for the bearings or bushings.
- (2) Apply primer, C00259 (F-20.02), but not in the holes for the bearings or bushings.
- (3) Make sure that the part identification number is visible after repair and refinish procedures. If necessary, repair the markings (SOPM 20-50-10) .

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REPAIR 3-2

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COMPONENT MAINTENANCE MANUAL

LOWER ROD END ASSEMBLY - REPAIR 4-1

148A7261-3

1. General

- A. This procedure has the necessary data to replace the bearing in the lower rod end assembly (IPL Figure 2; 80). This procedure also includes refinish instructions for the lower rod end assembly.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in the procedure.
- C. Refer to IPL Figure 2 for item numbers.

2. Bearing Replacement

A. References

Reference	Title
SOPM 20-50-03	BEARING AND BUSHING REPLACEMENT

B. Procedure (REPAIR 4-1, Figure 601)

- (1) Remove the old bearing (85) from the rod end.
- (2) If you find defects on the rod end fitting surfaces, refer to REPAIR 4-2 for repair instructions.
- (3) Install a replacement bearing and roller swage it (SOPM 20-50-03).

3. Refinish

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
D00113	Lubricant - Liquid Dispersed Solid Film Lubricant	BMS3-8, BAC 5811, TYPE VIII

B. References

Reference	Title
SOPM 20-50-08	APPLICATION OF BONDED SOLID FILM LUBRICANTS

C. Procedure (REPAIR 4-1, Figure 601)

- (1) Apply lubricant, D00113 to the area of the rod end assembly shown (SOPM 20-50-08).

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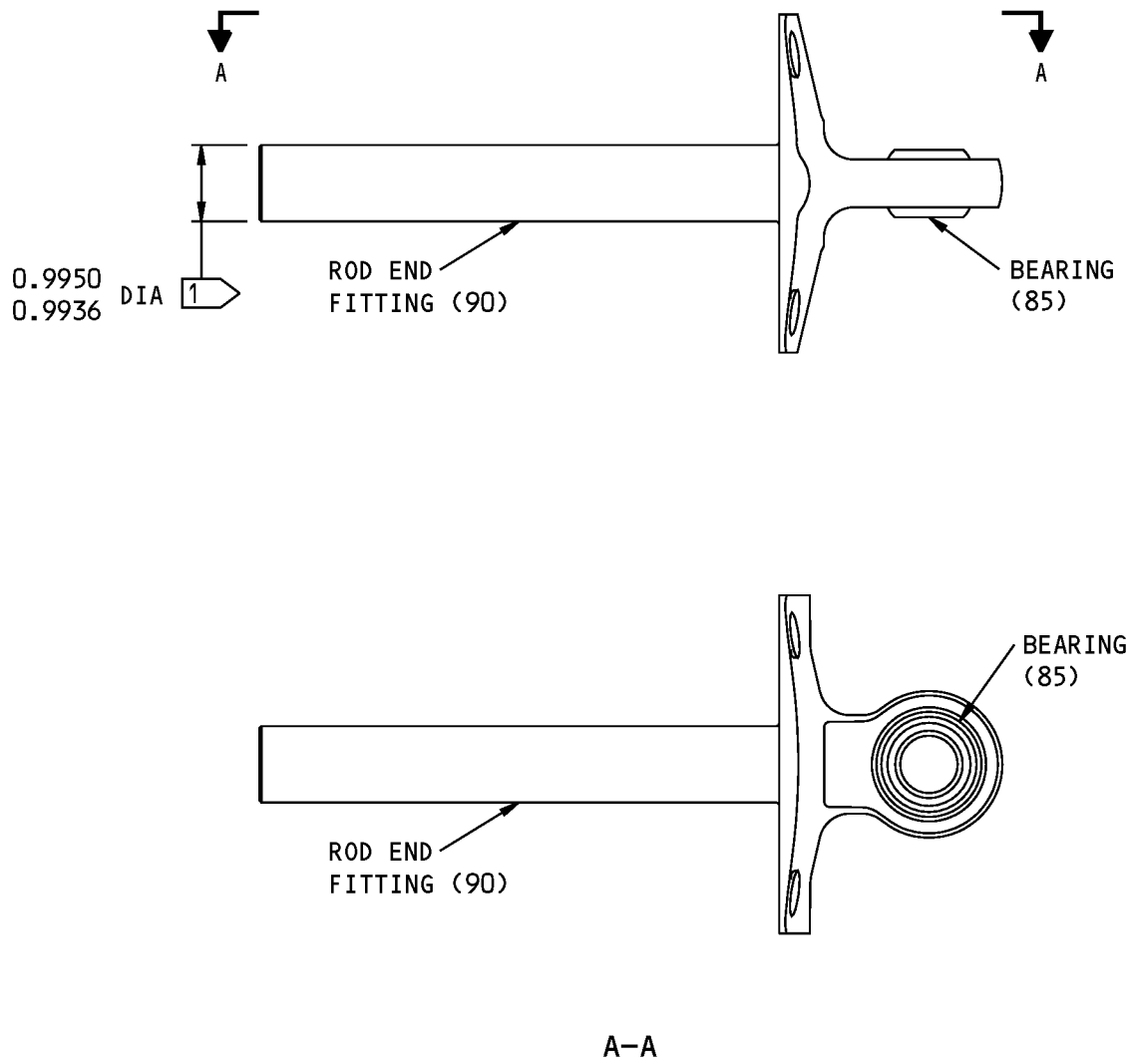
REPAIR 4-1

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COMPONENT MAINTENANCE MANUAL



1 APPLY BMS 3-8 SOLID FILM LUBRICANT (F-19.10)

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

148A7261-3 Lower Rod End Assembly Bearing Replacement
Figure 601

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REPAIR 4-1
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COMPONENT MAINTENANCE MANUAL

LOWER ROD END FITTING - REPAIR 4-2

148A7261-4, -5

1. General

- A. This procedure has the necessary data to refinish the lower rod end fitting (IPL Figure 2; 90).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in the procedure.
- C. Refer to IPL Figure 2 for item numbers.

2. 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

- B. References

Reference	Title
SOPM 20-30-02	STRIPPING OF PROTECTIVE FINISHES
SOPM 20-41-01	DECODING TABLE FOR BOEING FINISH CODES
SOPM 20-50-10	APPLICATION OF STENCILS, INSIGNIA, SILK SCREEN, PART NUMBERING AND IDENTIFICATION MARKINGS
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) Cadmium plate (F-16.06), but not in the holes for the bearing.
- (2) Apply primer, C00259 (F-20.02), but not in the hole for the bearing.
- (3) Make sure that the part identification number is visible after repair and refinish procedures. If necessary, repair the markings (SOPM 20-50-10).

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REPAIR 4-2

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COMPONENT MAINTENANCE MANUAL

FEMALE ROD ASSEMBLY - REPAIR 5-1

65C32977-1

1. General

- A. This procedure has the necessary data to replace the bearing and the bushing in the female rod assembly (IPL Figure 1; 75).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) of the SOPM subjects identified in the procedure.
- C. Refer to IPL Figure 1 for item numbers.

2. Bearing Replacement

A. References

Reference	Title
SOPM 20-50-03	BEARING AND BUSHING REPLACEMENT

B. Procedure

- (1) Remove the old bearing (80) from the rod.
- (2) If you find defects on the rod surfaces, refer to REPAIR 5-2 for repair instructions.
- (3) Install a replacement bearing and roller swage it (SOPM 20-50-03).

3. Bushing Replacement

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
D00113	Lubricant - Liquid Dispersed Solid Film Lubricant	BMS3-8, BAC 5811, TYPE VIII

B. References

Reference	Title
SOPM 20-50-03	BEARING AND BUSHING REPLACEMENT
SOPM 20-50-08	APPLICATION OF BONDED SOLID FILM LUBRICANTS

C. Procedure (REPAIR 5-1, Figure 601)

- (1) Remove the old bushing (85) from the rod.
- (2) If you find defects on the rod surfaces, refer to REPAIR 5-2 for repair instructions.
- (3) Install a replacement bushing by the shrink-fit method (SOPM 20-50-03).
- (4) Machine the bushing flange OD flush with the mating rod OD, as shown.
- (5) Machine the bushing bore to the dimensions and finish shown.
- (6) Apply lubricant, D00113 to the inner bushing bore surfaces, as shown (SOPM 20-50-08).

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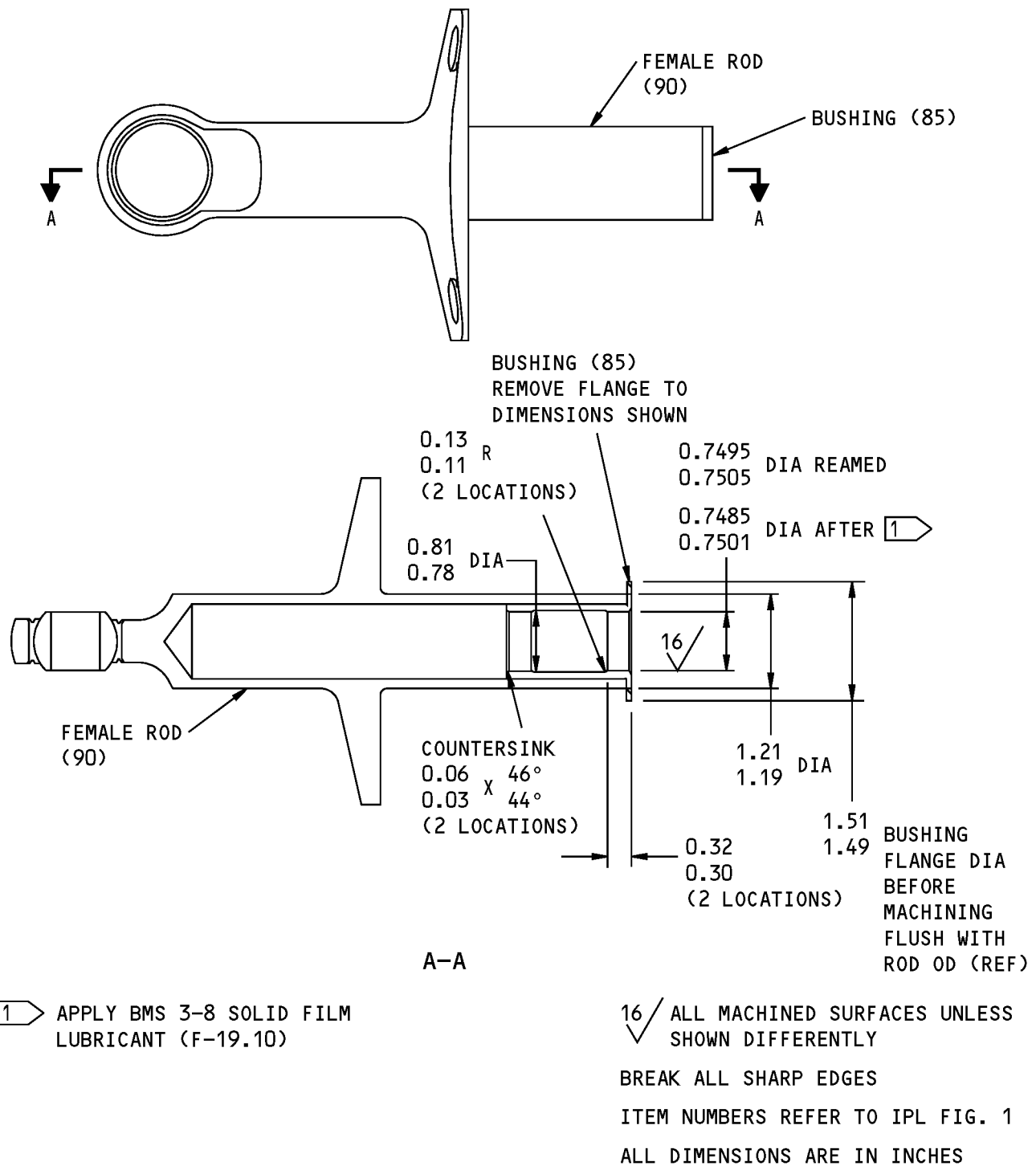
REPAIR 5-1

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COMPONENT MAINTENANCE MANUAL



65C32977-1 Female Rod Assembly Bushing/Bearing Replacement
Figure 601

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REPAIR 5-1

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COMPONENT MAINTENANCE MANUAL

FEMALE ROD - REPAIR 5-2

65C32977-2

1. General

- A. This procedure has the necessary data to refinish the female rod (IPL Figure 1; 90).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in the procedure.
- C. Refer to IPL Figure 1 for item numbers.

2. 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

- B. References

Reference	Title
SOPM 20-30-02	STRIPPING OF PROTECTIVE FINISHES
SOPM 20-41-01	DECODING TABLE FOR BOEING FINISH CODES
SOPM 20-50-10	APPLICATION OF STENCILS, INSIGNIA, SILK SCREEN, PART NUMBERING AND IDENTIFICATION MARKINGS
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) Cadmium plate and apply primer, C00259 (F-16.01), but not in the holes for the bearings and bushings.
- (2) Make sure that the part identification number is visible after repair and refinish procedures. If necessary, repair the markings (SOPM 20-50-10) .

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REPAIR 5-2

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COMPONENT MAINTENANCE MANUAL

MALE ROD ASSEMBLY - REPAIR 6-1

65C32977-3

1. General

- A. This procedure has the necessary data to replace the bearing in the male rod assembly (IPL Figure 1; 95).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in the procedure.
- C. Refer to IPL Figure 1 for item numbers.

2. Bearing Replacement

A. References

Reference	Title
SOPM 20-50-03	BEARING AND BUSHING REPLACEMENT

B. Procedure

- (1) Remove the old bearing (100) from the rod.
- (2) Install a replacement bearing and roller swage it (SOPM 20-50-03).

3. Refinish

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
D00113	Lubricant - Liquid Dispersed Solid Film Lubricant	BMS3-8, BAC 5811, TYPE VIII

B. References

Reference	Title
SOPM 20-50-08	APPLICATION OF BONDED SOLID FILM LUBRICANTS

C. Procedure (REPAIR 6-1, Figure 601)

- (1) Apply lubricant, D00113 to the area of the rod end assembly shown (SOPM 20-50-08).

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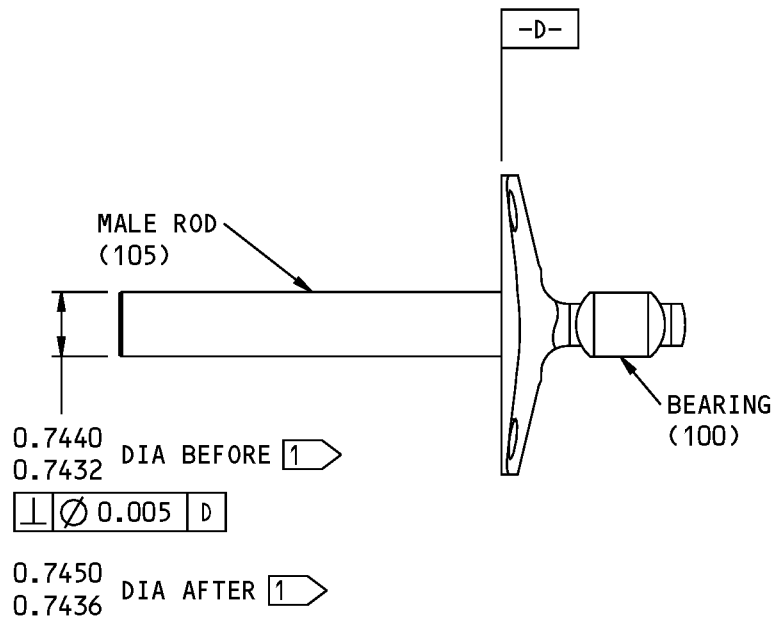
REPAIR 6-1

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COMPONENT MAINTENANCE MANUAL



1 APPLY BMS 3-8 SOLID FILM
LUBRICANT (F-19.10)

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

65C32977-3 Male Rod Assembly Bearing Replacement
Figure 601

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REPAIR 6-1
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COMPONENT MAINTENANCE MANUAL

MALE ROD - REPAIR 6-2

65C32977-4

1. General

- A. This procedure has the necessary data to refinish the male rod (IPL Figure 1; 105).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in the procedure.
- C. Refer to IPL Figure 1 for item numbers.

2. 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

- B. References

Reference	Title
SOPM 20-30-02	STRIPPING OF PROTECTIVE FINISHES
SOPM 20-41-01	DECODING TABLE FOR BOEING FINISH CODES
SOPM 20-50-10	APPLICATION OF STENCILS, INSIGNIA, SILK SCREEN, PART NUMBERING AND IDENTIFICATION MARKINGS
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) Cadmium plate and apply primer, C00259 (F-16.01), but not in the hole for the bearing.
- (2) Make sure that the part identification number is visible after repair and refinish procedures. If necessary, repair the markings (SOPM 20-50-10).

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REPAIR 6-2

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ASSEMBLY

1. General

- A. This procedure has the necessary data to assemble the tail skid installation.
- 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 item numbers.

2. Tail Skid Installation - Assembly

- A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS 5-95
D00633	Grease - Aircraft General Purpose	BMS3-33

- B. References

Reference	Title
SOPM 20-50-19	GENERAL SEALING
SOPM 20-60-03	LUBRICANTS
SOPM 20-60-04	MISCELLANEOUS MATERIALS

- C. Procedure (ASSEMBLY, Figure 701)

NOTE: For lubricants, refer to SOPM 20-60-03. For miscellaneous materials, refer to SOPM 20-60-04

- (1) Assemble the cartridge assembly (IPL Figure 1; 55), (IPL Figure 2; 40).
 - (a) Assemble the male rod assembly (IPL Figure 1; 95), (IPL Figure 2; 80) and the female rod assembly (IPL Figure 1; 75), (IPL Figure 2; 60) onto the cartridge (IPL Figure 1; 110), (IPL Figure 2; 95).
 - (b) Install the bolts (IPL Figure 1; 60), (IPL Figure 2; 45), the washers (IPL Figure 1; 65), (IPL Figure 2; 50) and the nuts (IPL Figure 1; 70), (IPL Figure 2; 55) with sealant, A00247 (SOPM 20-50-19).
- (2) Assemble the tail skid assembly (IPL Figure 1; 155), (IPL Figure 2; 140).

NOTE: The drag link assembly has some brackets, angles and nut plates riveted to it.

 - (a) Fill the thru holes, in the skirt assembly, for the bolts (IPL Figure 1; 175), (IPL Figure 2; 155) with grease, D00633, as shown in ASSEMBLY, Figure 701.
 - (b) Put the drag link assembly onto the skirt assembly and install the bolts (IPL Figure 1; 175), (IPL Figure 2; 155).
- (3) Install the bolt (IPL Figure 1; 115), (IPL Figure 2; 100) onto the tail skid assembly (IPL Figure 1; 155), (IPL Figure 2; 140) with the washers (IPL Figure 1; 125), (IPL Figure 2; 110) and the nuts (IPL Figure 1; 130), (IPL Figure 2; 115).
- (4) Installation of the shoe (IPL Figure 1; 10), (IPL Figure 2; 10) onto the tail skid assembly (IPL Figure 1; 155), (IPL Figure 2; 140).

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ASSEMBLY
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- (a) Fill the thru holes, in the shoe, for the bolts (IPL Figure 1; 5), (IPL Figure 2; 5) with grease, D00633 from the outer side of the shoe.
- (b) Install the shoe with the bolts (IPL Figure 1; 5), (IPL Figure 2; 5).
- (5) Install the cartridge assembly (IPL Figure 1; 110), (IPL Figure 2; 95) onto the tail skid assembly (IPL Figure 1; 155), (IPL Figure 2; 140) with the bolt (IPL Figure 1; 20), (IPL Figure 2; 20), the washers (IPL Figure 1; 35, 40), (IPL Figure 2; 25, 30) and the nut (IPL Figure 1; 50), (IPL Figure 2; 35).

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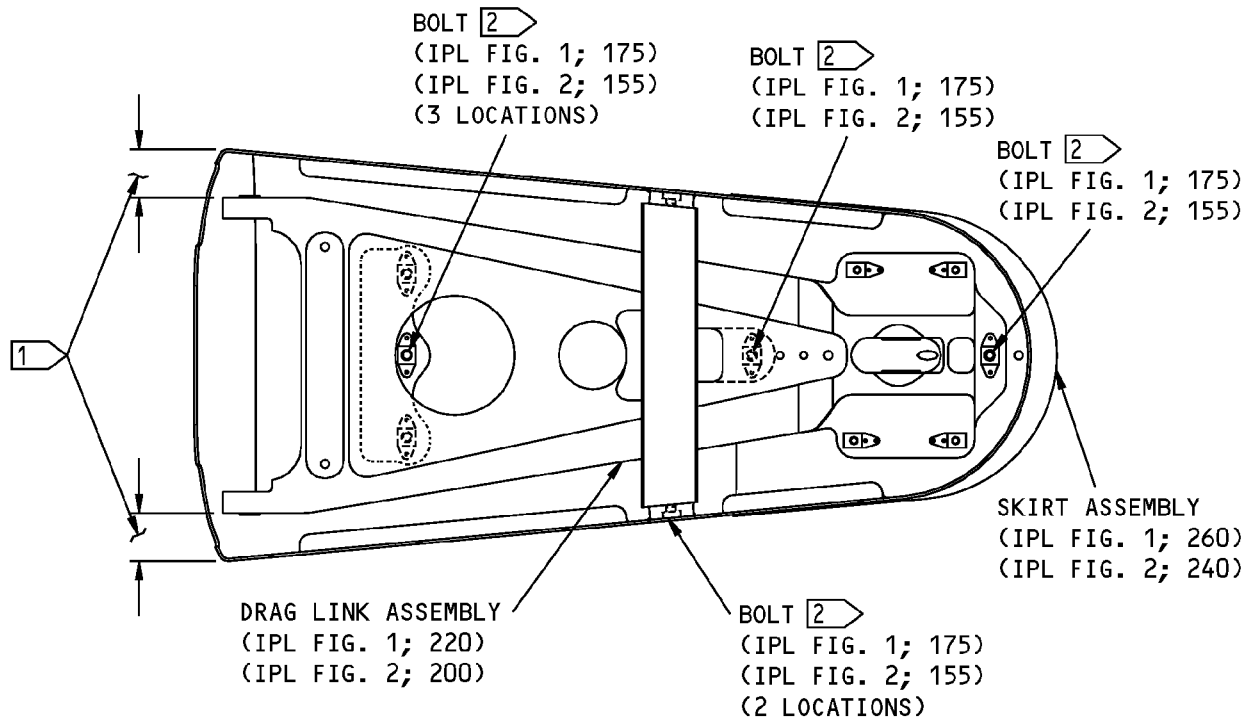
ASSEMBLY

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- 1 ADJUST THE DRAG LINK ASSEMBLY ON THE CENTER OF THE SKIRT ASSEMBLY TO MAKE THESE TWO DIMENSIONS EQUAL WITHIN 0.0200 INCH
- 2 FILL THE THRU HOLES IN THE SKIRT WITH BMS 3-33 GREASE, FROM THE SKIRT SIDE, BEFORE YOU INSTALL THE FASTENERS

Assembly
Figure 701

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ASSEMBLY

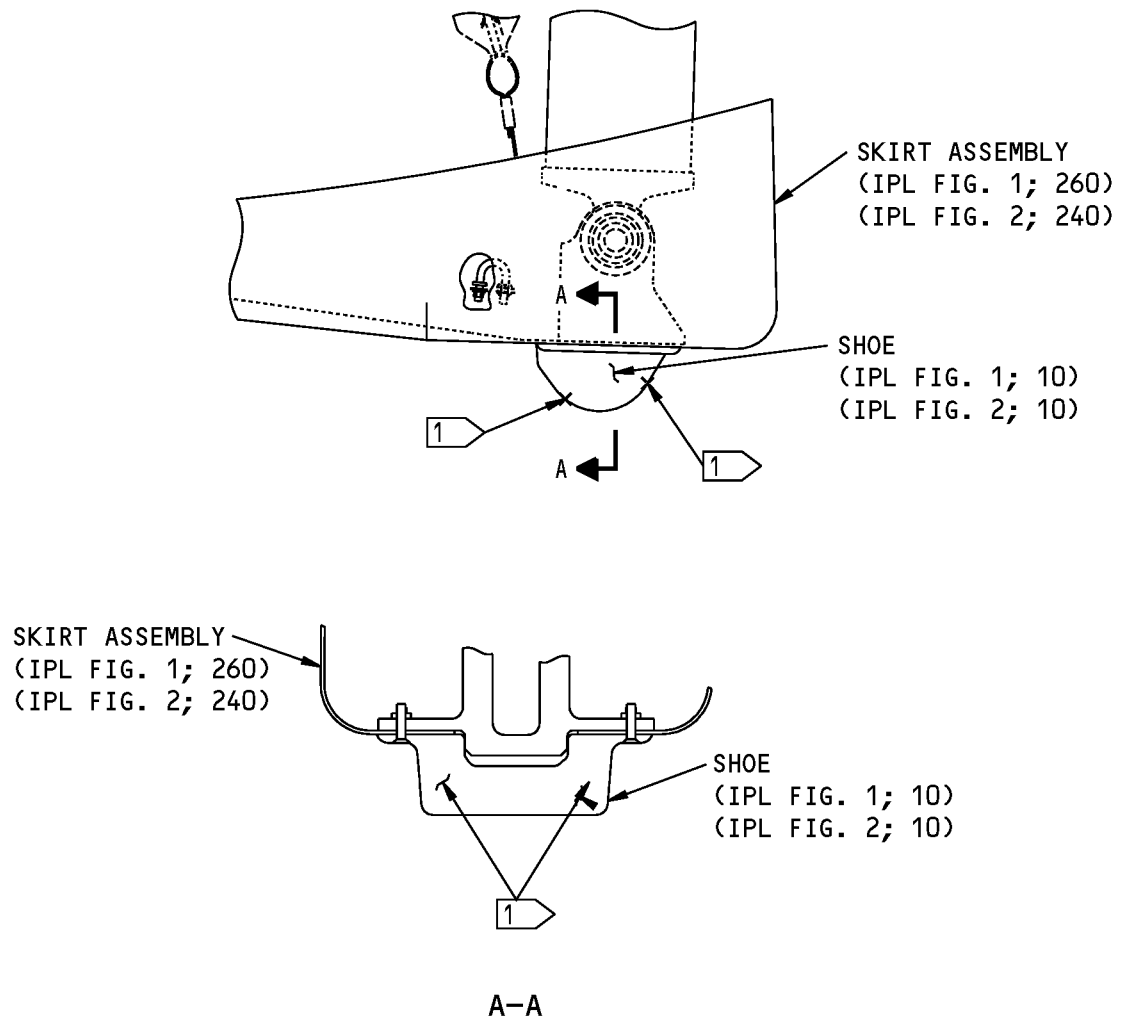
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FITS AND CLEARANCES



- 1 REPLACE THE SHOE WHEN THE SHOE IS WORN DOWN TO ANY OF THE WEAR DIMPLES

Fits and Clearances
Figure 801



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SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

(NOT APPLICABLE)

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SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

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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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ILLUSTRATED PARTS LIST

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Optional (OPT)	The part is optional to and interchangeable with other parts that have the same item number.
Replaces, Replaced by and not interchangeable with (REPLACES, REPLACED BY AND NOT INTCHG/W)	The part replaces and is not interchangeable with the initial part.
Replaces, Replaced by (REPLACES, REPLACED BY)	The part replaces and is interchangeable with, or is an alternative to, the initial part.

VENDOR CODES

Code	Name
02758	NETWORKS ELECTRONIC CORP U S BEARING DIV 9750 DE SOTO AVENUE CHATSWORTH, CALIFORNIA 91311-4409 FORMERLY U S BEARING DIV NETWORKS ELEC CORP
09455	RBC TRANSPORT DYNAMICS CORP 3131 W SEGERSTROM AVE SANTA ANA, CALIFORNIA 92704-5872 FORMERLY TRANSPORT DYNAMICS AEROSPACE DIV; FABROID DIV TRANSPORT DYNAMICS V17571 & LEAR SEIGLER INC TRANSPORT DIV V98076; FORMERLY BFM TRANSPORT DYNAMICS
11815	CHERRY AEROSPACE FASTENERS DIV OF TEXTRON 1224 EAST WARNER AVENUE PO BOX 2157 SANTA ANA, CALIFORNIA 92707-0157 FORMERLY IN LOS ANGELES, CALIF , FORMERLY CHERRY FASTENERS TOWNSEND DIV OF TEXTRON INC V71087
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
15860	NEW HAMPSHIRE BALL BEARINGS, INC ASTRO DIVISION 155 LEXINGTON AVENUE LACONIA, NEW HAMPSHIRE 03246-2937 FORMERLY ASTRO BEARING CORP, LOS ANGELES, CALIF.

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Code	Name
16746	SPECLINE INCORPORATED 2230 MOUTON DR CARSON CITY, NV 89706 FORMERLY IN SUN VALLEY, CALIFORNIA
50294	NEW HAMPSHIRE BALL BEARINGS, INC PRECISION DIVISION 9700 INDEPENDENCE AVENUE CHATSWORTH, CALIFORNIA 91311 FORMERLY NIPPON MINATURE BEARING CORP V23589 AND NMB AMERICA INC AND NMB INC
51344	HEXCEL CORP VALLEY INDUSTRIAL PARK GILABEND HWY PO BOX 66 CASA GRANDE, ARIZONA 85222
52828	REPUBLIC FASTENER MFG CORP 1300 RANCHO CONEJO BLVD NEWBURY PARK, CALIFORNIA 91320-1405 FORMERLY IN SYLMAR, CALIFORNIA
56644	AURORA BEARING CO 970 SOUTH LAKE STREET AURORA, ILLINOIS 60506-5929
62554	SIMMONDS MECAERO FASTENERS INC 1734 SEQUOIA AVENUE ORANGE, CALIFORNIA 92668
72962	HARVARD INDUSTRIES INC 3 WERNER WAY SUITE 210 LEBANON, NEW JERSEY 08833 FORMERLY ESNA V7A079 FORMERLY ELASTIC STOP NUT IN UNION, NJ
73134	ROLLER BEARING COMPANY OF AMER DBA HEIM BEARINGS DIV 60 ROUND HILL RD FAIRFIELD, CONNECTICUT 06430-0000 FORMERLY INCOM INTL HEIM DIV; HEIM UNIVERSAL CORP INCOM; FORMERLY HEIM DIV INCOM INTL; IMO IND HEIM BEARINGS DIV

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Code	Name
80539	SPS TECHNOLOGIES INC DIV AERPSOACE - SANTA ANA 2701 SOUTH HARBOR BOULEVARD SANTA ANA, CALIFORNIA 92704-5803 FORMERLY NUTT-SHEL DIV OF SPC WESTERN CO V80539 AND STANDARD PRESSED STEEL WESTERN DIV V17279
81376	SMITH ACQUISITION COMPANY 2240 BUENA VISTA BALDWIN PARK, CALIFORNIA 91706
92215	FAIRCHILD IND INC FAIRCHILD AEROSPACE FASTENER DIV 3010 W LOMITA BLVD TORRANCE, CALIFORNIA 90505-5102 FORMERLY VOI-SHAN IN CULVER CITY, CALIF
97613	SARGENT CONTROLS & AEROSPACE/KAHR BEARING DIV 5675 W BURLINGAME RD TUCSON, ARIZONA 85743 FORMERLY AETNA STEEL PROD KAHR BEARING DIV V96579 FORMERLY SARGENT IND KAHR BEARING DIV, BURBANK, CALIFORNIA
97928	Replaced: [V97928] SEE V17446 HUCK INTL by Code: Name and Address below 17446: HUCK INTL INC AEROSPACE FASTENER DIV 900 WATSON CENTER ROAD CARSON, CALIFORNIA 90745-4201 FORMERLY V32134 REXNORD INC; FORMERLY V97928 HUCK INTL
S0352	NIPPON MINIATURE BEARING CO LTD TOKYO, JAPAN

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NUMERICAL INDEX

PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
10-62168-1		1	110	1
10-62168-2		2	95	1
102F9201-3		2	165	6
		2	230	1
102F9201-4		1	185	6
		1	250	1
102F9207P3		1	245	4
		2	225	4
102LH9074-10		1	50	1
		2	35	2
102LH9074-8		1	45	1
148A7201-1		1	1A	RF
148A7201-2		1	1B	RF
		2	1A	RF
148A7250-1		1	155	1
148A7250-2		1	220	1
148A7250-3		1	255	1
148A7250-4		1	235	2
148A7250-5		2	140	1
148A7250-6		2	200	1
148A7250-7		2	235	1
148A7250-8		2	215	2
148A7255-1		1	260	1
148A7255-4		2	240	1
148A7256-1		1	165	2
148A7256-2		1	170	2
		2	150	4
148A7256-3		1	195	1
148A7256-4		1	215	1
148A7256-5		1	205	2
		2	180	2
148A7256-6		1	200	1
		2	185	1
148A7256-7		1	210	1

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
		2	190	1
148A7256-8		2	175	1
148A7256-9		2	195	1
148A7260-1		2	40	1
148A7261-1		2	60	1
148A7261-2		2	75	1
148A7261-3		2	80	1
148A7261-4		2	90	1
148A7261-5		2	90A	1
55288M		1	80	1
55289M		1	100	1
		2	65	1
		2	85	1
65C32975-3		1	10	1
		2	10	1
65C32976-1		1	55	1
65C32977-1		1	75	1
65C32977-2		1	90	1
65C32977-3		1	95	1
65C32977-4		1	105	1
69235-1018CD		1	50	1
		2	35	2
69235-820CD		1	45	1
ABW10V5-12		1	80	1
		1	80	1
ABW12V5-12		1	100	1
		1	100	1
		2	65	1
		2	65	1
		2	85	1
		2	85	1
AW10VCRG12		1	80	1
AW12VCRG12		1	100	1
		2	65	1
		2	85	1

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
BACB10AB10M		1	80	1
BACB10AB12M		1	100	1
		2	65	1
		2	85	1
BACB28AA12B150		1	85	1
BACB28AA16B150		2	70	1
BACB28W12B064		1	230	2
		2	210	2
BACB30LH3-8		1	5	4
		2	5	4
BACB30LJ3-5		1	60	8
BACB30PU10-32		1	15	1
BACB30PU12-34		2	15	1
BACB30PU12-39		1	20	1
		2	20	1
BACB30PU8-33		1	135	2
		2	120	2
BACB30VF3K3		2	155	7
BACB30VF4K3		1	175	7
BACN10JC10CD		1	50	1
		2	35	2
BACN10JC3CD		1	70	8
BACN10JC8CD		1	45	1
BACN10JR3CFD		2	165	6
		2	230	1
BACN10JR4CFD		1	185	6
		1	250	1
BACN10KB3CFD		1	245	4
		2	225	4
BACN10YR3CD		1	130	2
		2	55	8
		2	115	2
BACN10YR7CD		1	150	2
		2	135	2
BACR15BA3AD		1	180	12

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
		1	240	10
		2	160	12
		2	220	10
BACR15FT5D		1	190	21
		2	170	21
BACR15GF5D		1	160	24
		2	145	16
BACW10BP10CD		1	25	1
BACW10BP10DP		1	40	1
		2	30	2
BACW10BP12CD		1	35	1
		2	25	2
BACW10BP3DP		1	65	8
		2	50	8
BACW10BP7DP		1	145	2
		2	130	2
BACW10BP8CD		1	140	2
		2	125	2
BACW10BP8DP		1	30	1
BMN4122CPD8-10		1	50	1
		2	35	2
BMN4122CPD8-8		1	45	1
BRF100C3D		1	245	4
		2	225	4
BRF200C3D		2	165	6
		2	230	1
BRF200C4D		1	185	6
		1	250	1
BSSR10951EC2		1	80	1
BSSR12856EC2		1	100	1
		2	65	1
		2	85	1
BWG10M110		1	80	1
CP0120-1		1	110	1
F51604-3		1	245	4

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
		2	225	4
H51650-10BAC		1	50	1
		2	35	2
H51650-8BAC		1	45	1
H52732-3CD		1	130	2
		2	55	8
		2	115	2
H52732-7CD		1	150	2
		2	135	2
HU10-134M		1	80	1
HU12-134M		1	100	1
		2	65	1
		2	85	1
K51602-3BAC		2	165	6
		2	230	1
K51602-4BAC		1	185	6
		1	250	1
KWB10-20CRGD5		1	80	1
KWB12-20CRGD5		1	100	1
		2	65	1
		2	85	1
MCU8238		2	95	1
MS14102-8CP		1	225	2
		2	205	2
MS25082-3		1	120	2
		2	105	2
NAS1149D0332J		1	125	2
		2	110	2
NAS3103-4-6		1	115	1
		2	100	1
NAS6703-5		2	45	8
NS202476-02		2	165	6
		2	230	1
NS202476-048		1	185	6
		1	250	1

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
NS202478-02		1	245	4
		2	225	4
PLH53CD		1	130	2
		2	55	8
		2	115	2
PLH57CD		1	150	2
		2	135	2
T8092C1032CD		2	165	6
		2	230	1
T8092C428CD		1	185	6
		1	250	1
WC10G1DM		1	80	1
WC10MG1		1	80	1
WC12G1DM		1	100	1
		2	65	1
		2	85	1
WG10EM		1	80	1
WG12EM		1	100	1
		2	65	1
		2	85	1

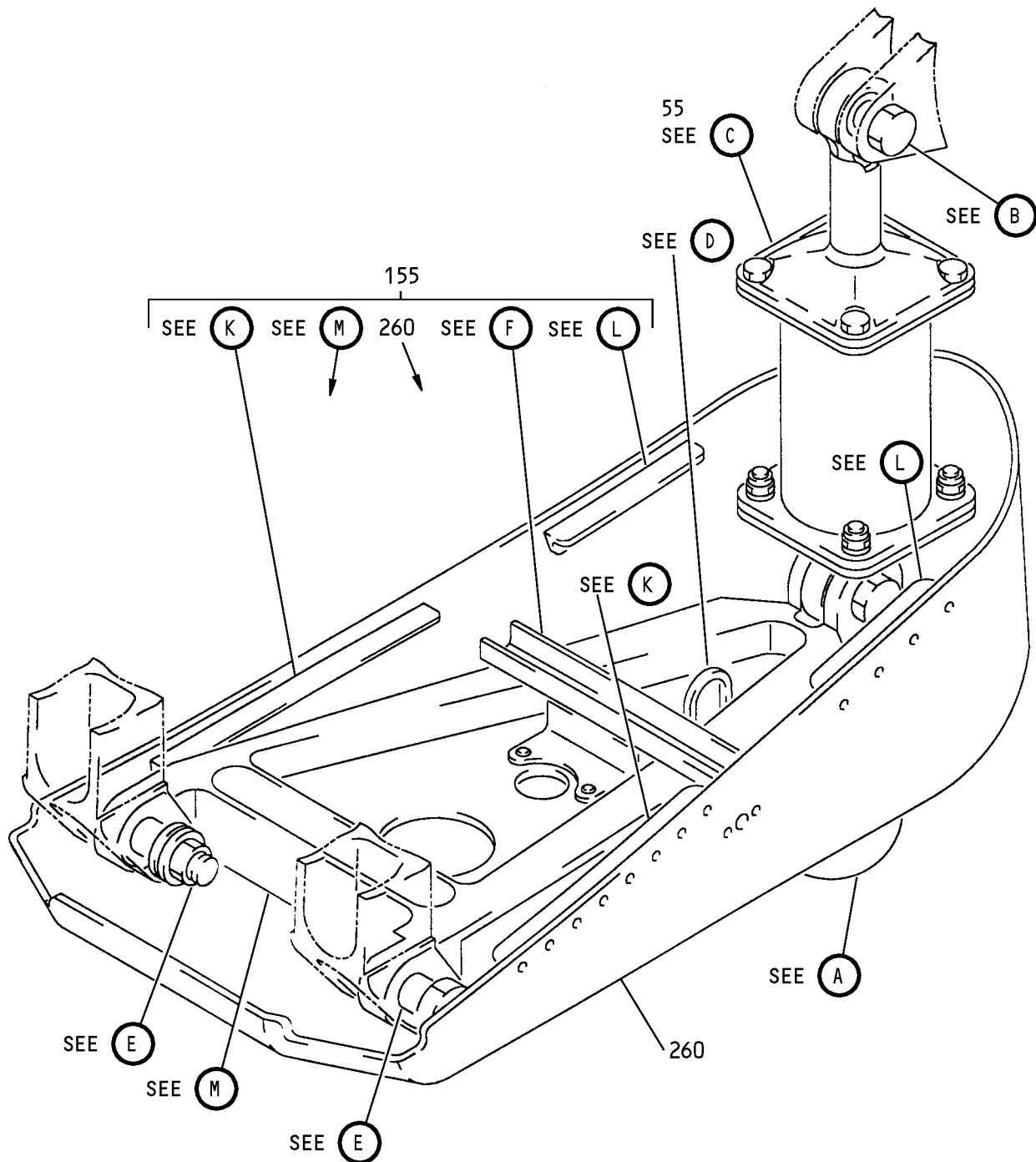
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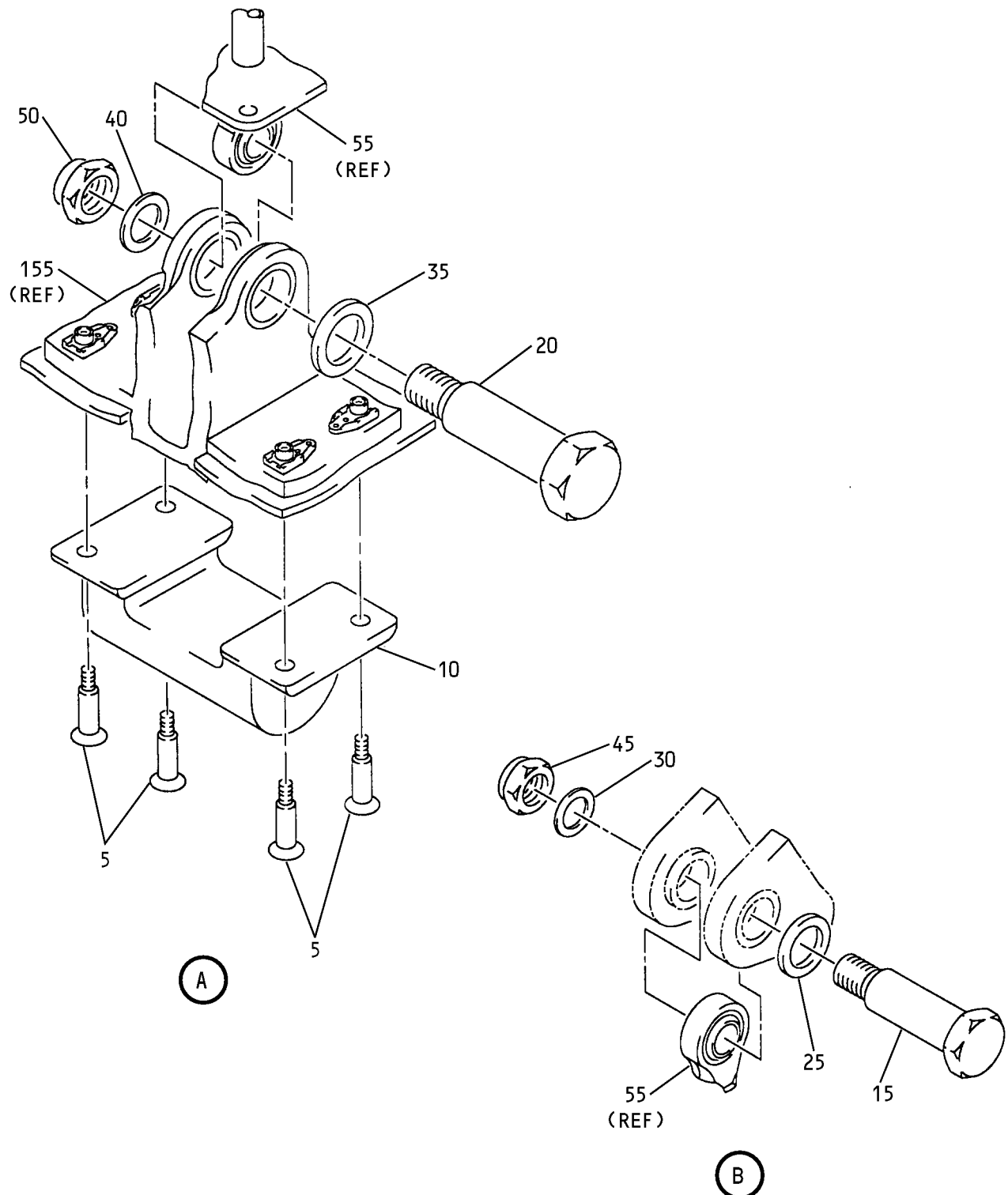
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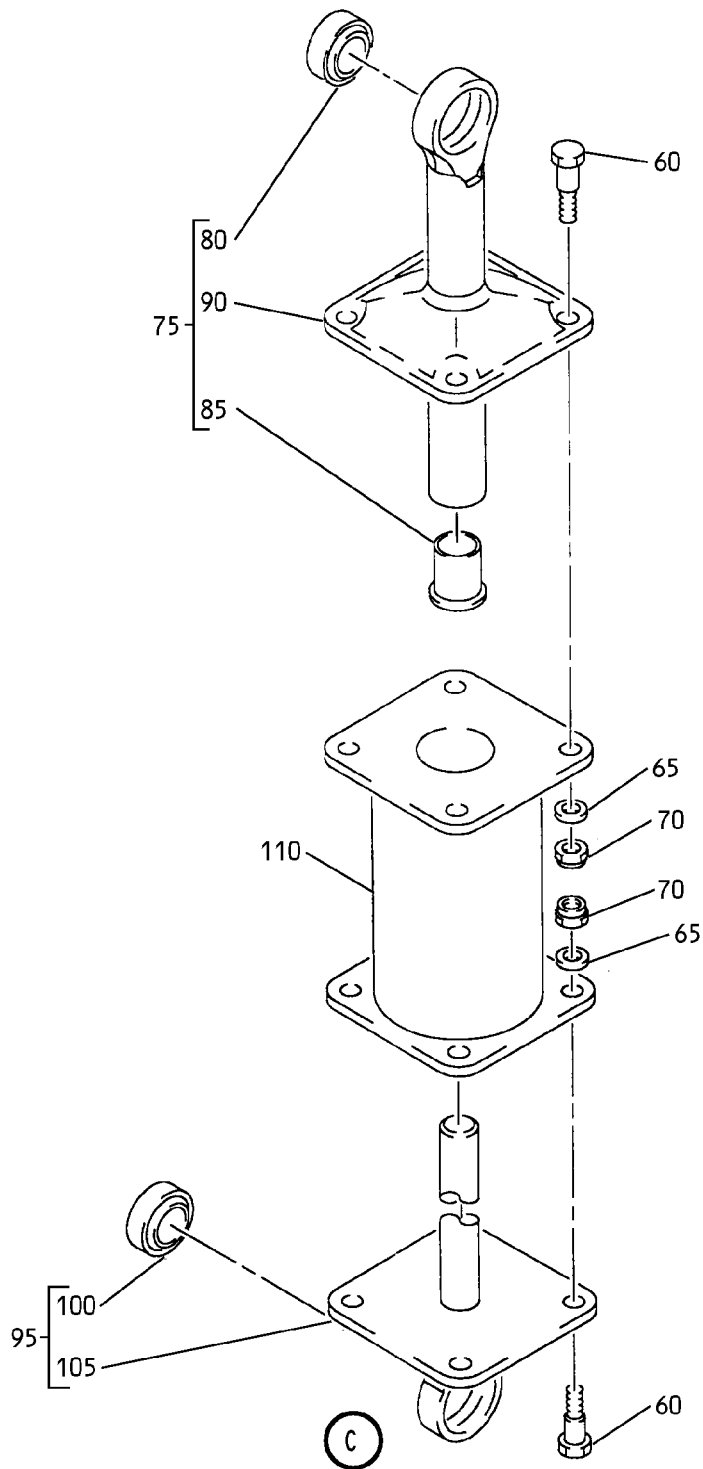
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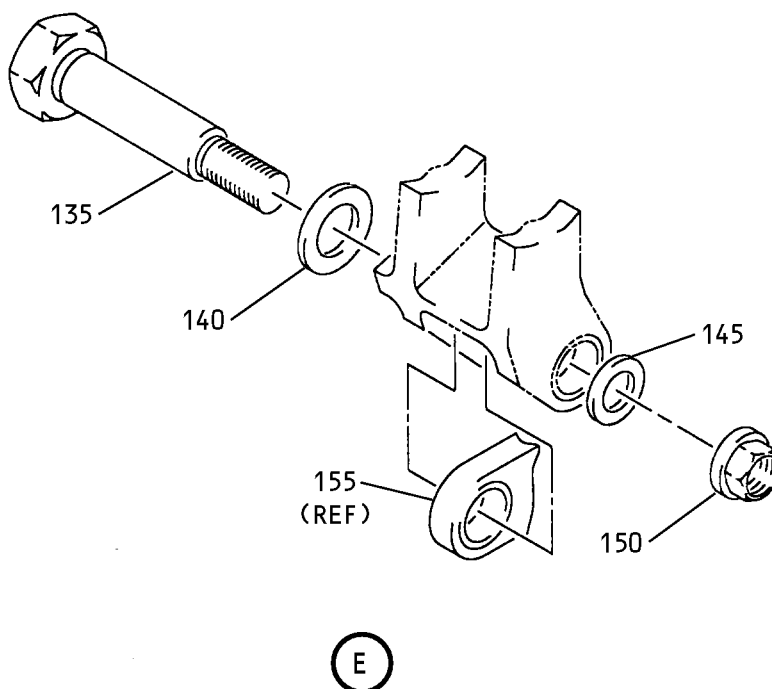
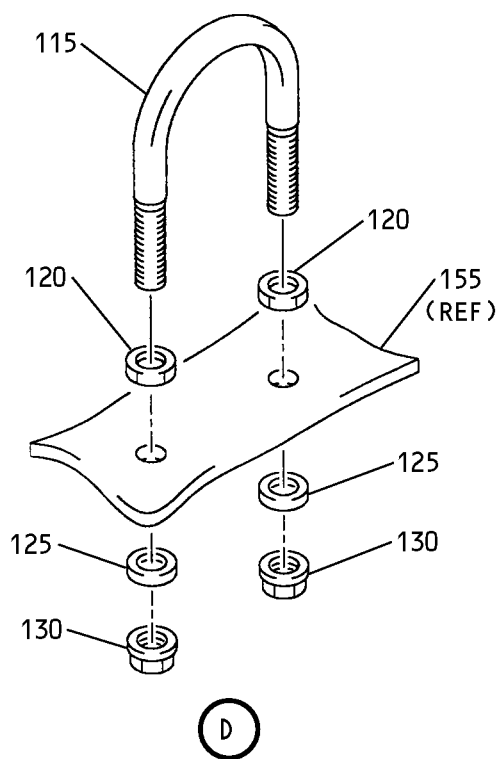
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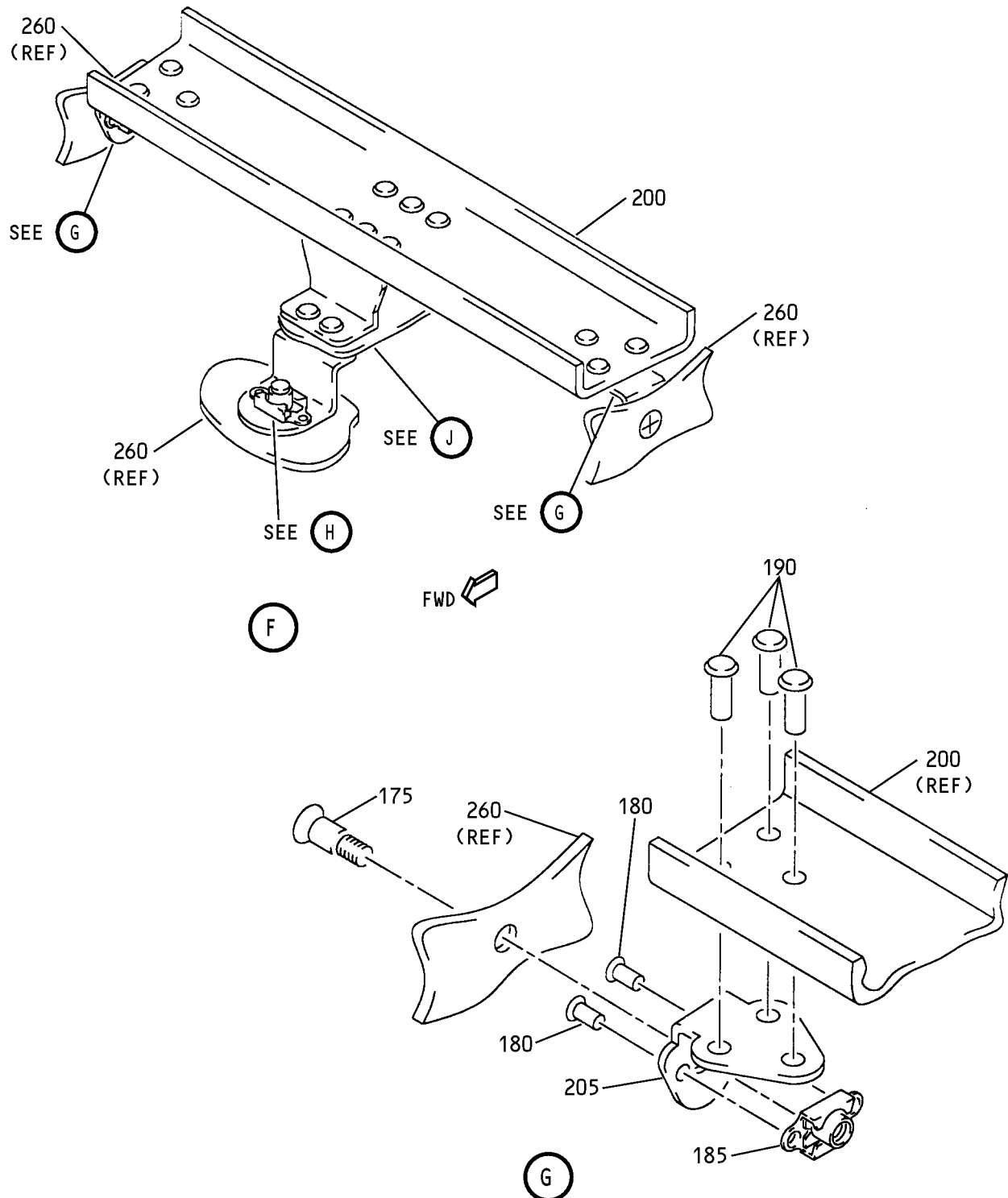
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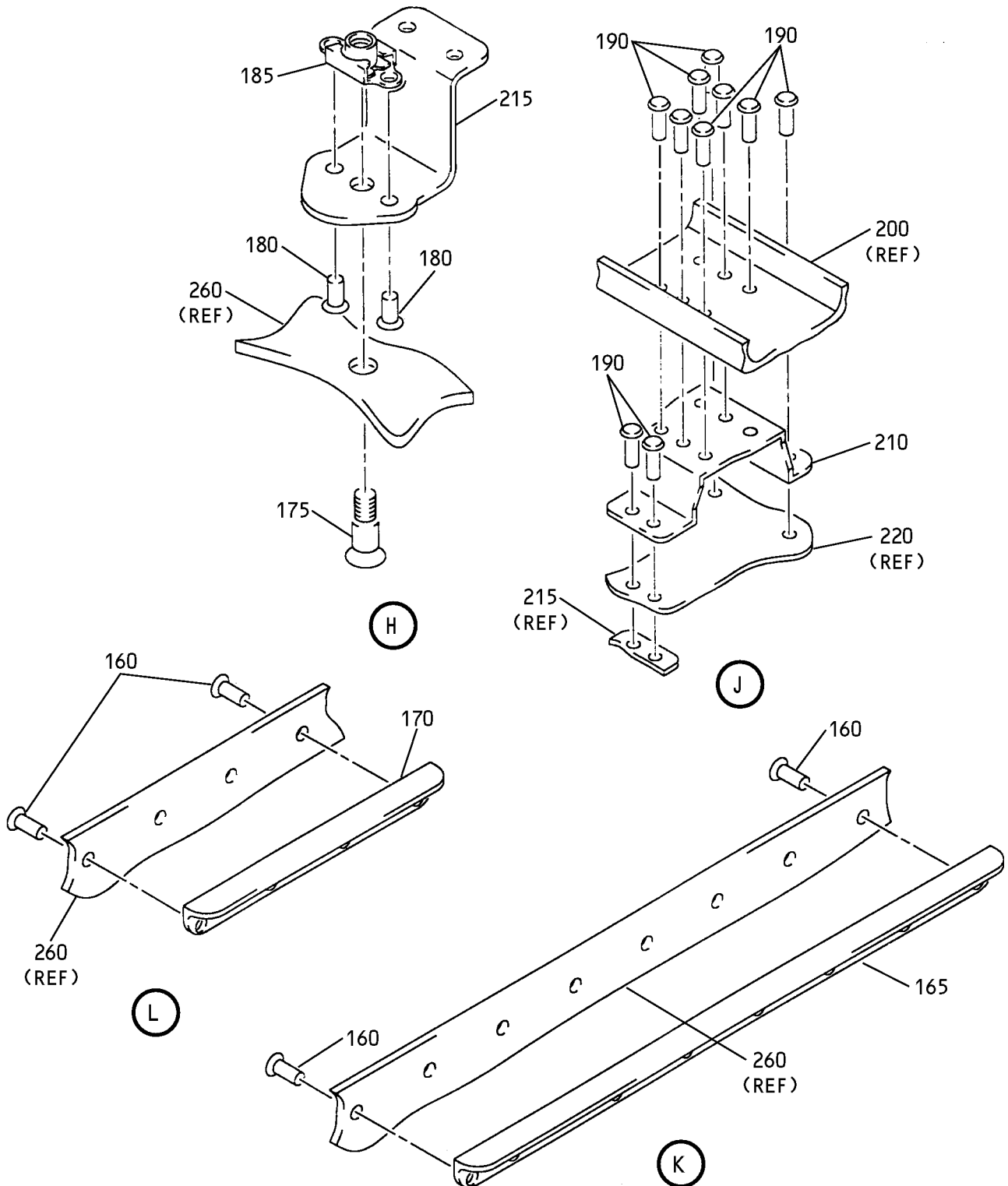
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Tail Skid Installation
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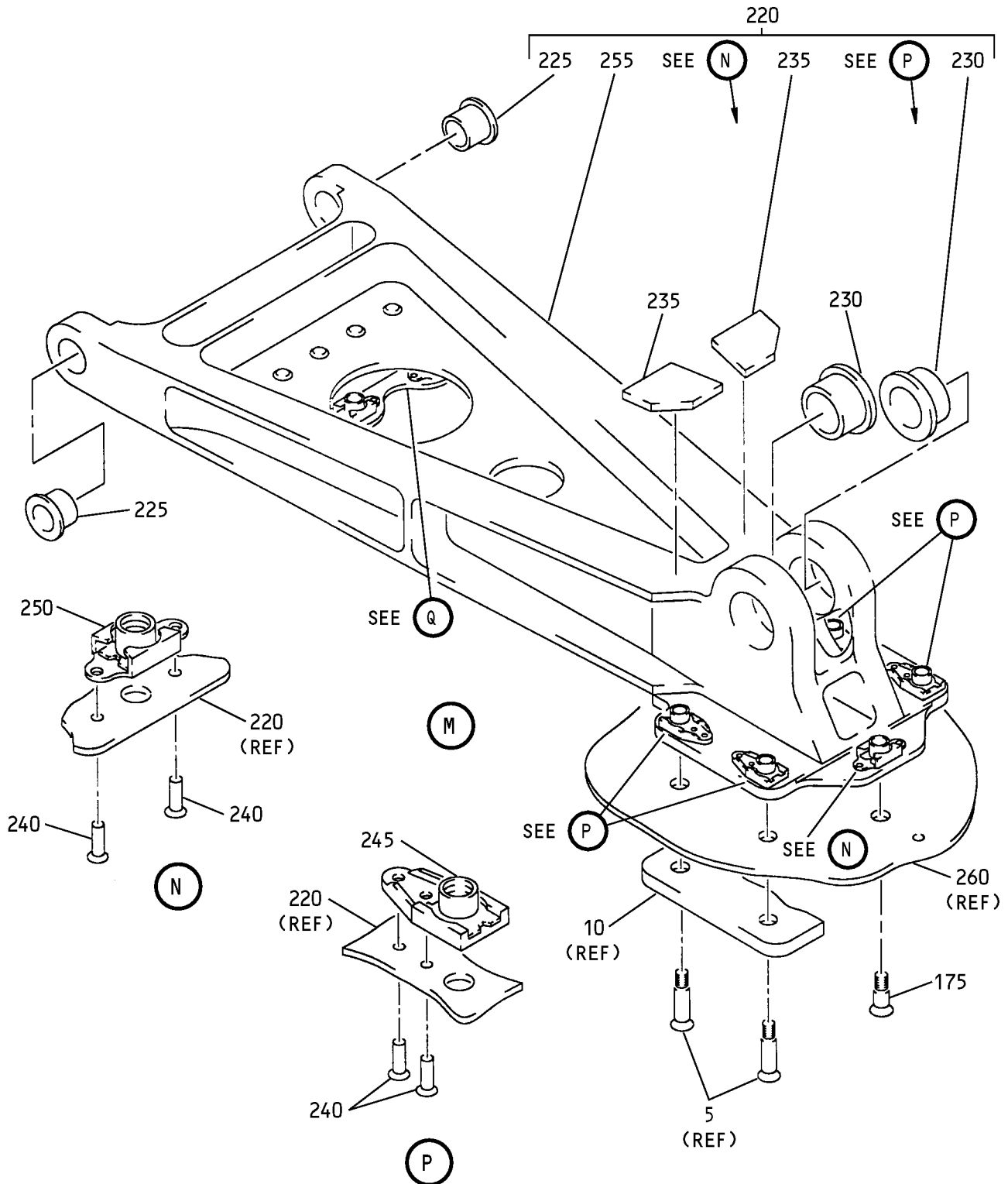
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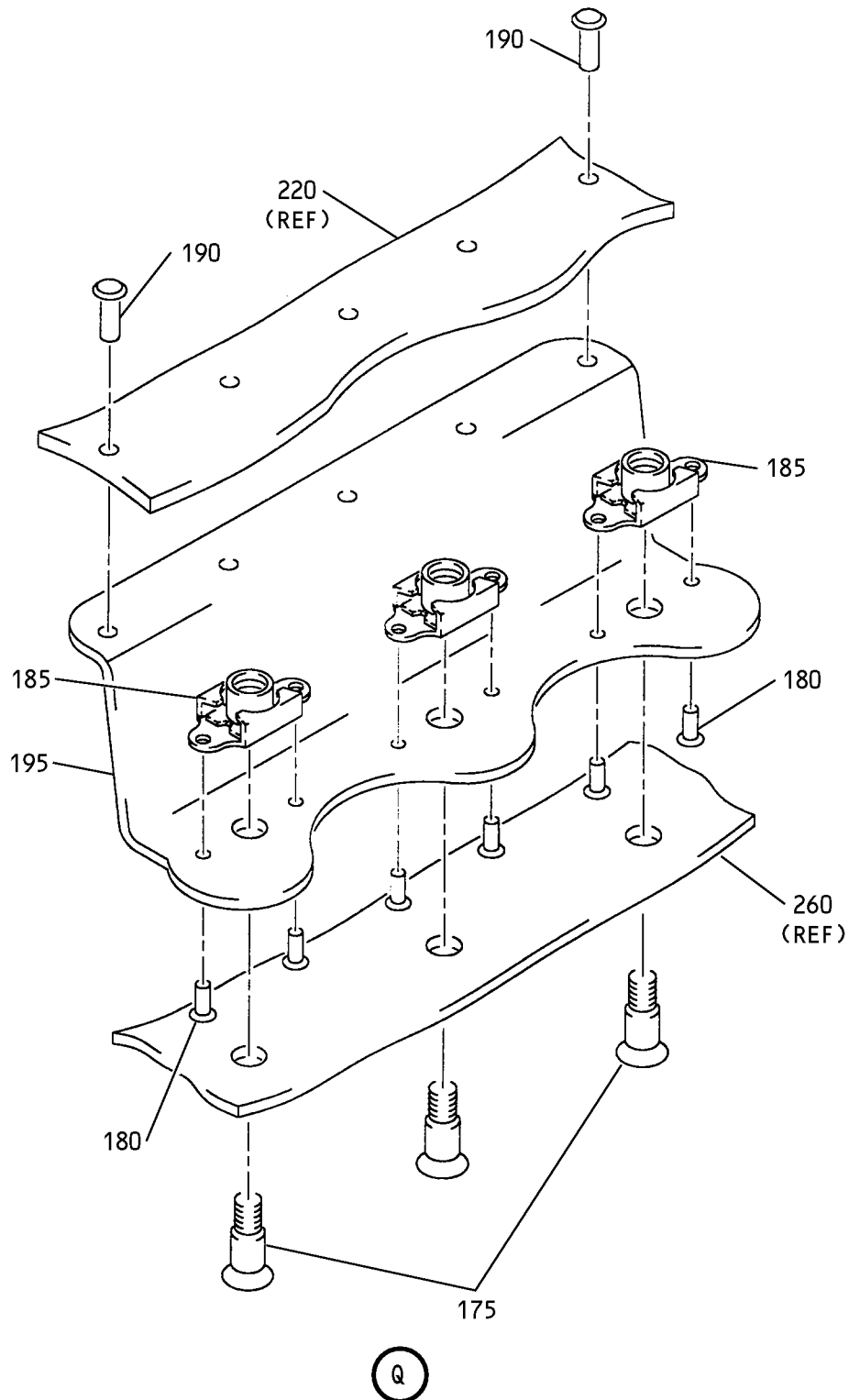
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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USAGE CODE	UNITS PER ASSY
1—					
—1A	148A7201-1		SKID INSTL-TAIL, SECT. 48	A	RF
—1B	148A7201-2		SKID INSTL-TAIL, SECT. 48 (FOR DETAILS SEE FIG. 2)	B	RF
5	BACB30LH3-8		. BOLT	A	4
10	65C32975-3		. SHOE	A	1
15	BACB30PU10-32		. BOLT	A	1
20	BACB30PU12-39		. BOLT	A	1
25	BACW10BP10CD		. WASHER	A	1
30	BACW10BP8DP		. WASHER	A	1
35	BACW10BP12CD		. WASHER	A	1
40	BACW10BP10DP		. WASHER	A	1
45	H51650-8BAC		. NUT (V15653) (SPEC BACN10JC8CD) (OPT 102LH9074-8 (V72962)) (OPT 69235-820CD (V92215)) (OPT BMN4122CPD8-8 (V97928))	A	1
50	102LH9074-10		. NUT (V72962) (SPEC BACN10JC10CD) (OPT H51650-10BAC (V15653)) (OPT 69235-1018CD (V92215)) (OPT BMN4122CPD8-10 (V97928))	A	1
55	65C32976-1		. CARTRIDGE ASSY	A	1
60	BACB30LJ3-5		. . BOLT	A	8
65	BACW10BP3DP		. . WASHER	A	8
70	BACN10JC3CD		. . NUT	A	8
75	65C32977-1		. . ROD ASSY-FEMALE	A	1

—Item not Illustrated

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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– 80	AW10VCRG12		. . . BEARING (V15860) (SPEC BACB10AB10M) (OPT BSSR10951EC2 (V81376)) (OPT KWB10-20CRGD5 (V97613)) (OPT WG10EM (V73134)) (OPT 55288M (V09455)) (OPT ABW10V5-12 (V50294)) (OPT HU10-134M (V02758)) (OPT WC10MG1 (V56644)) (OPT WC10G1DM (V56644)) (OPT BWG10M110 (V16746)) (OPT ABW10V5-12 (VS0352))	A	1
85	BACB28AA12B150		. . . BUSHING	A	1
90	65C32977-2		. . . ROD	A	1
95	65C32977-3		. . ROD ASSY-MALE	A	1
100	AW12VCRG12		. . . BEARING (V15860) (SPEC BACB10AB12M) (OPT BSSR12856EC2 (V81376)) (OPT KWB12-20CRGD5 (V97613)) (OPT WG12EM (V73134)) (OPT 55289M (V09455)) (OPT HU12-134M (V02758)) (OPT WC12G1DM (V56644)) (OPT ABW12V5-12 (V50294)) (OPT ABW12V5-12 (VS0352))	A	1
105	65C32977-4		. . . ROD	A	1
110	CP0120-1		. . CARTRIDGE (V51344) (SPEC 10-62168-1)	A	1
115	NAS3103-4-6		. BOLT	A	1
120	MS25082-3		. NUT	A	2
125	NAS1149D0332J		. WASHER	A	2
130	H52732-3CD		. NUT (V15653) (SPEC BACN10YR3CD) (OPT PLH53CD (V62554))	A	2
135	BACB30PU8-33		. BOLT	A	2
140	BACW10BP8CD		. WASHER	A	2
145	BACW10BP7DP		. WASHER	A	2

–Item not Illustrated

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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– 150	H52732-7CD		. NUT (V15653) (SPEC BACN10YR7CD) (OPT PLH57CD (V62554))	A	2
155	148A7250-1		. SKID ASSY	A	1
160	BACR15GF5D		. . RIVET (SIZE DETERMINED ON INST)	A	24
165	148A7256-1		. . ANGLE	A	2
170	148A7256-2		. . ANGLE	A	2
175	BACB30VF4K3		. . BOLT	A	7
180	BACR15BA3AD		. . RIVET (SIZE DETERMINED ON INST)	A	12
185	BRF200C4D		. . NUTPLATE (V52828) (SPEC BACN10JR4CFD) (OPT K51602-4BAC (V15653)) (OPT NS202476-048 (V80539)) (OPT 102F9201-4 (V72962)) (OPT T8092C428CD (V11815))	A	6
190	BACR15FT5D		. . RIVET (SIZE DETERMINED ON INST)	A	21
195	148A7256-3		. . BRACKET	A	1
200	148A7256-6		. . BRACKET	A	1
205	148A7256-5		. . BRACKET	A	2
210	148A7256-7		. . BRACKET	A	1
215	148A7256-4		. . BRACKET	A	1
220	148A7250-2		. . LINK ASSY-DRAG	A	1
225	MS14102-8CP		. . . BEARING	A	2
230	BACB28W12B064		. . . BUSHING	A	2
235	148A7250-4		. . . PAD	A	2
240	BACR15BA3AD		. . . RIVET (SIZE DETERMINED ON INST)	A	10
245	BRF100C3D		. . . NUTPLATE (V52828) (SPEC BACN10KB3CFD) (OPT NS202478-02 (V80539)) (OPT 102F9207P3 (V72962)) (OPT F51604-3 (V15653))	A	4

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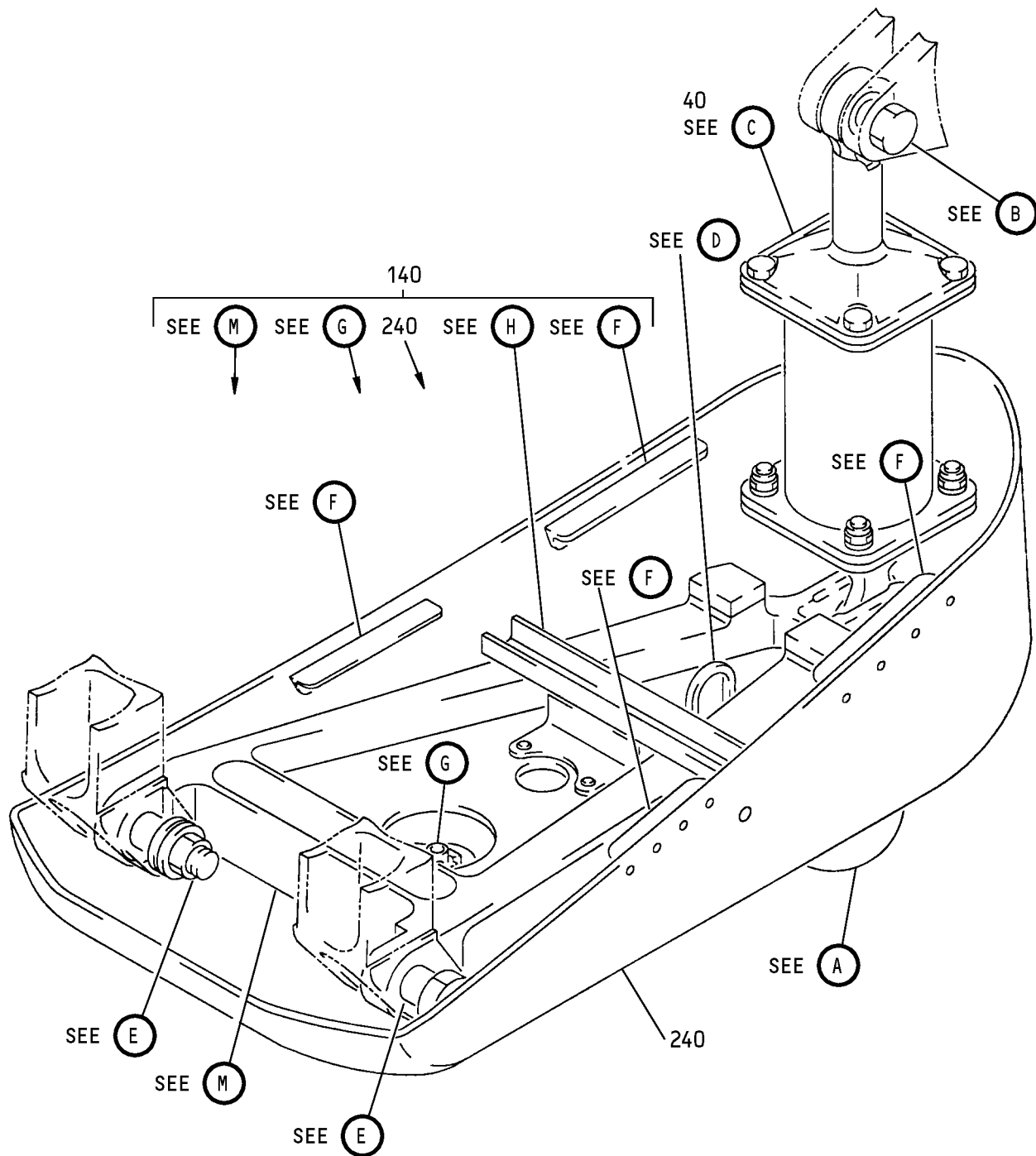


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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USAGE CODE	UNITS PER ASSY
1– 250	BRF200C4D		. . . NUTPLATE (V52828) (SPEC BACN10JR4CFD) (OPT K51602-4BAC (V15653)) (OPT NS202476-048 (V80539)) (OPT 102F9201-4 (V72962)) (OPT T8092C428CD (V11815))	A	1
255	148A7250-3		. . . LINK	A	1
260	148A7255-1		. . SKIRT ASSY	A	1

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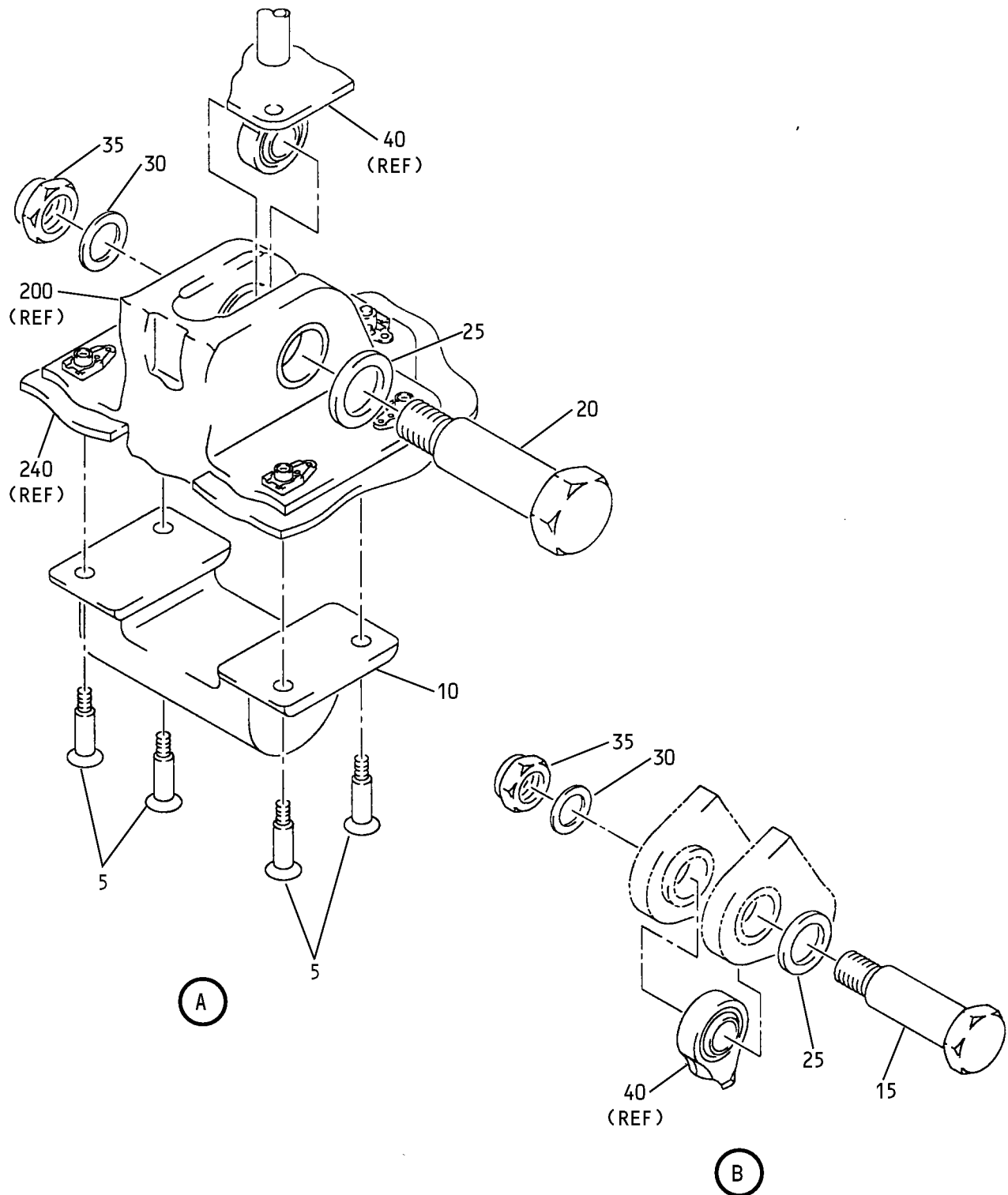
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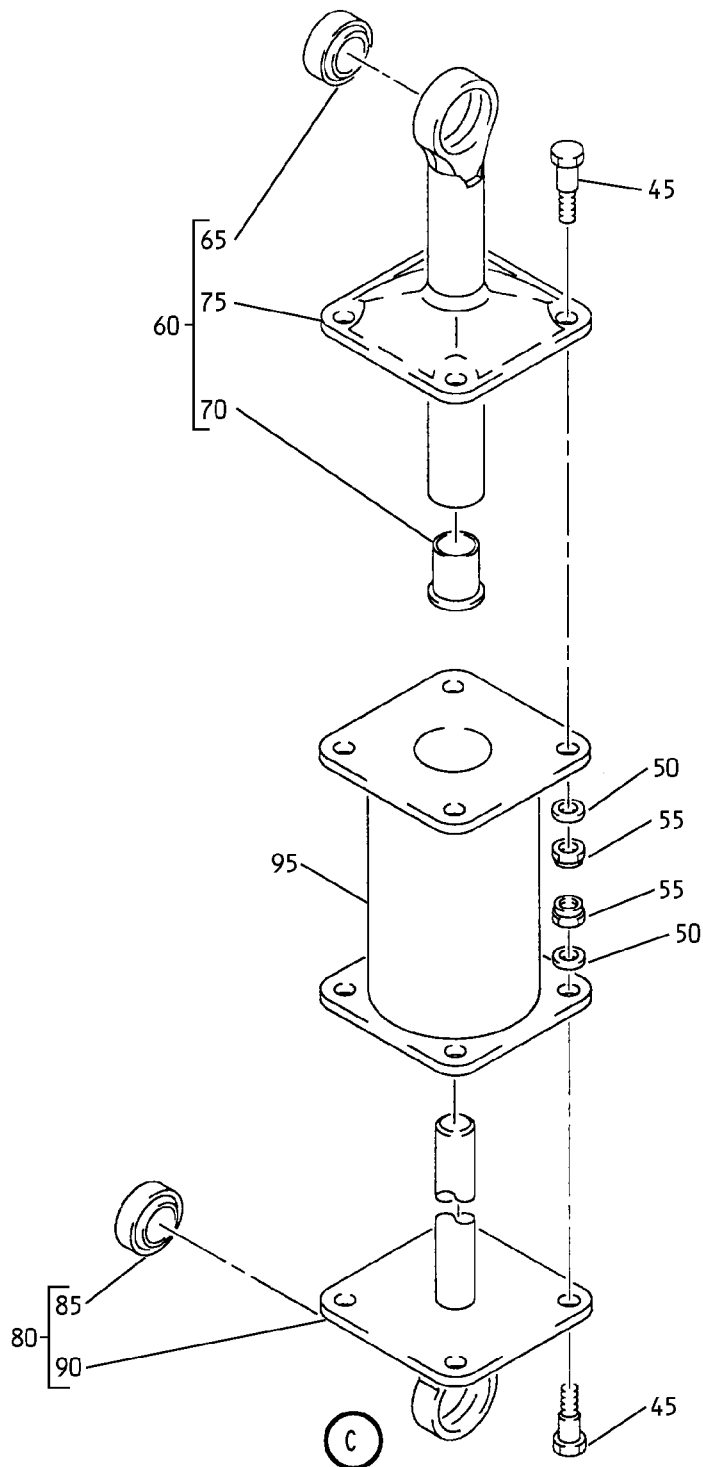
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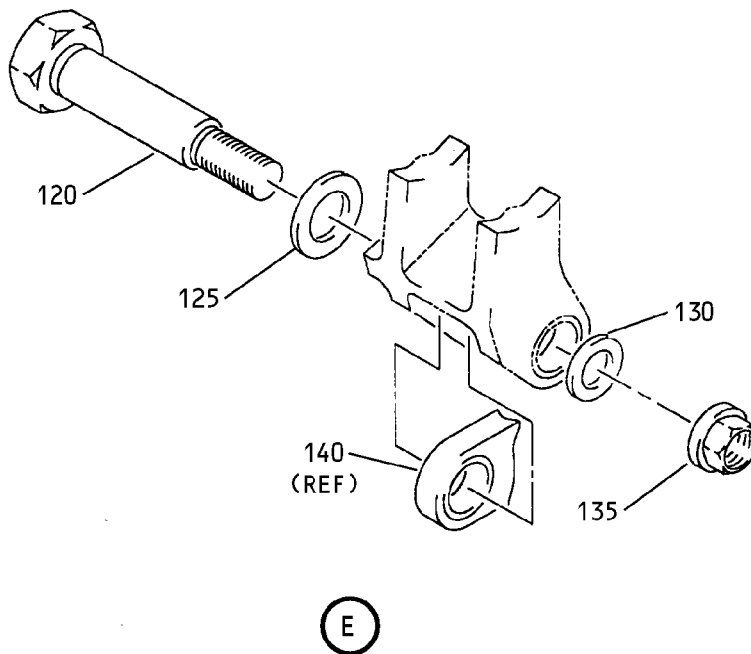
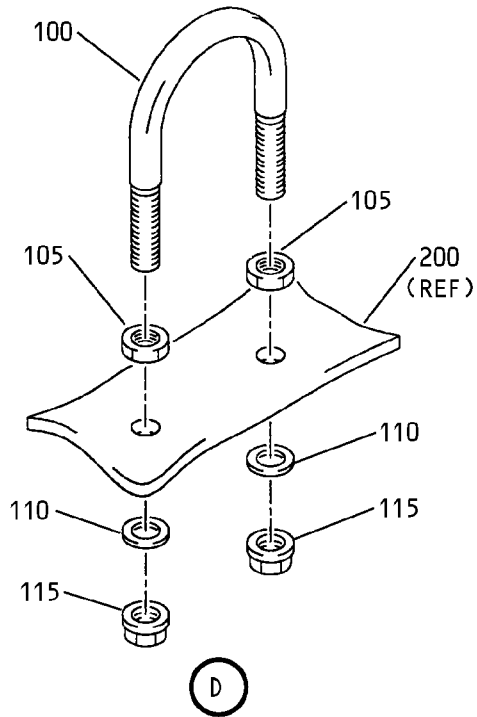
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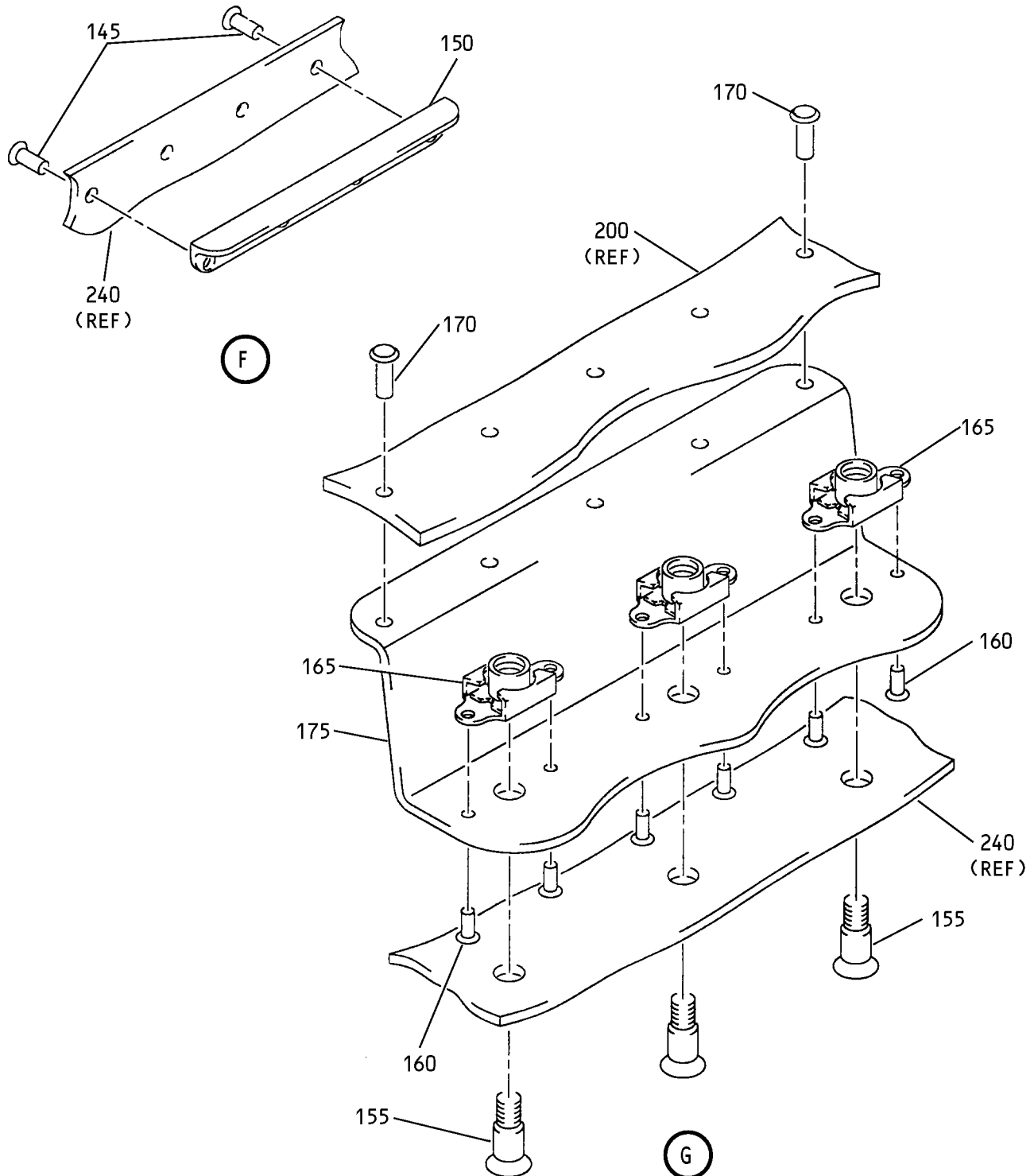
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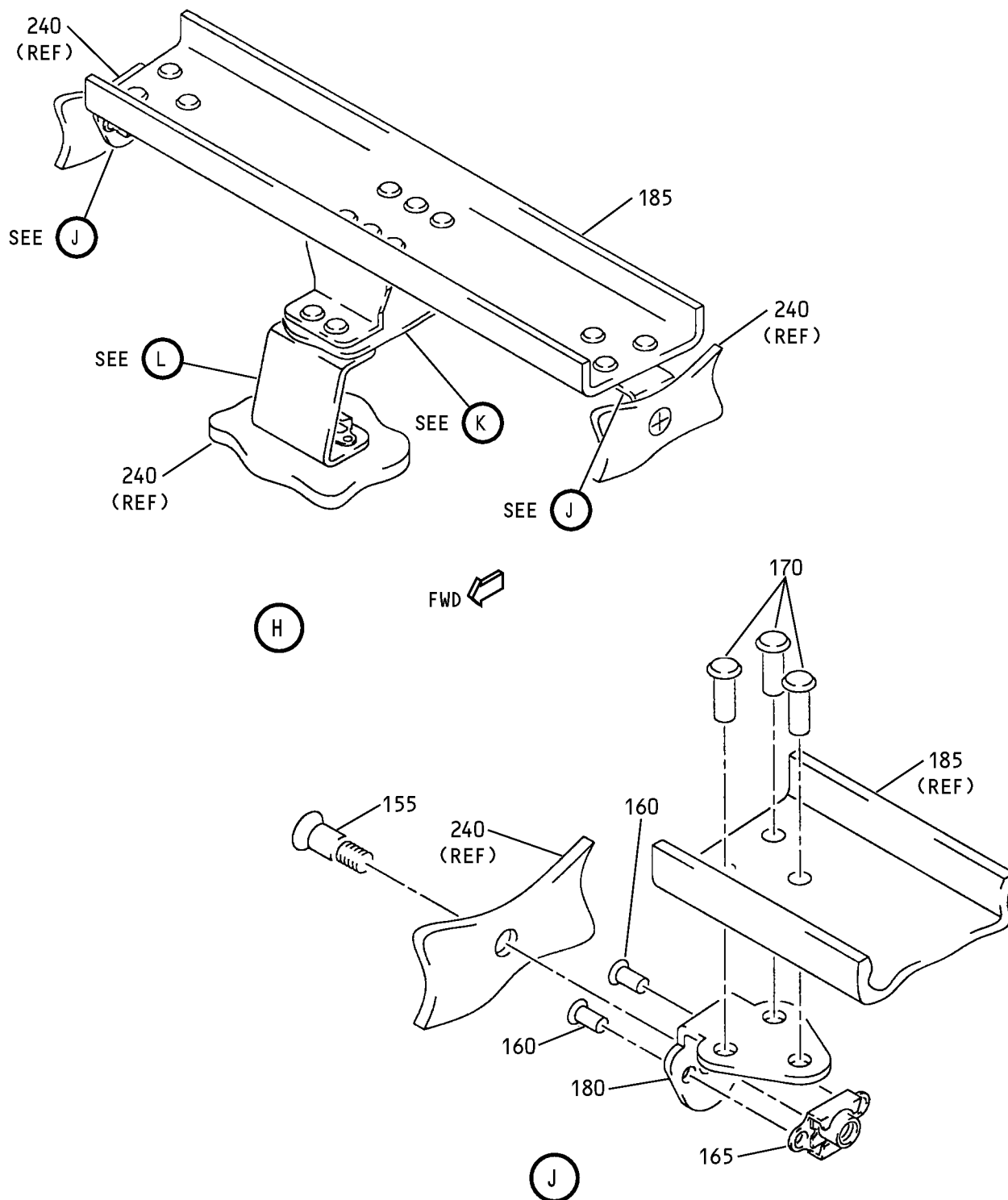
Tail Skid Installation
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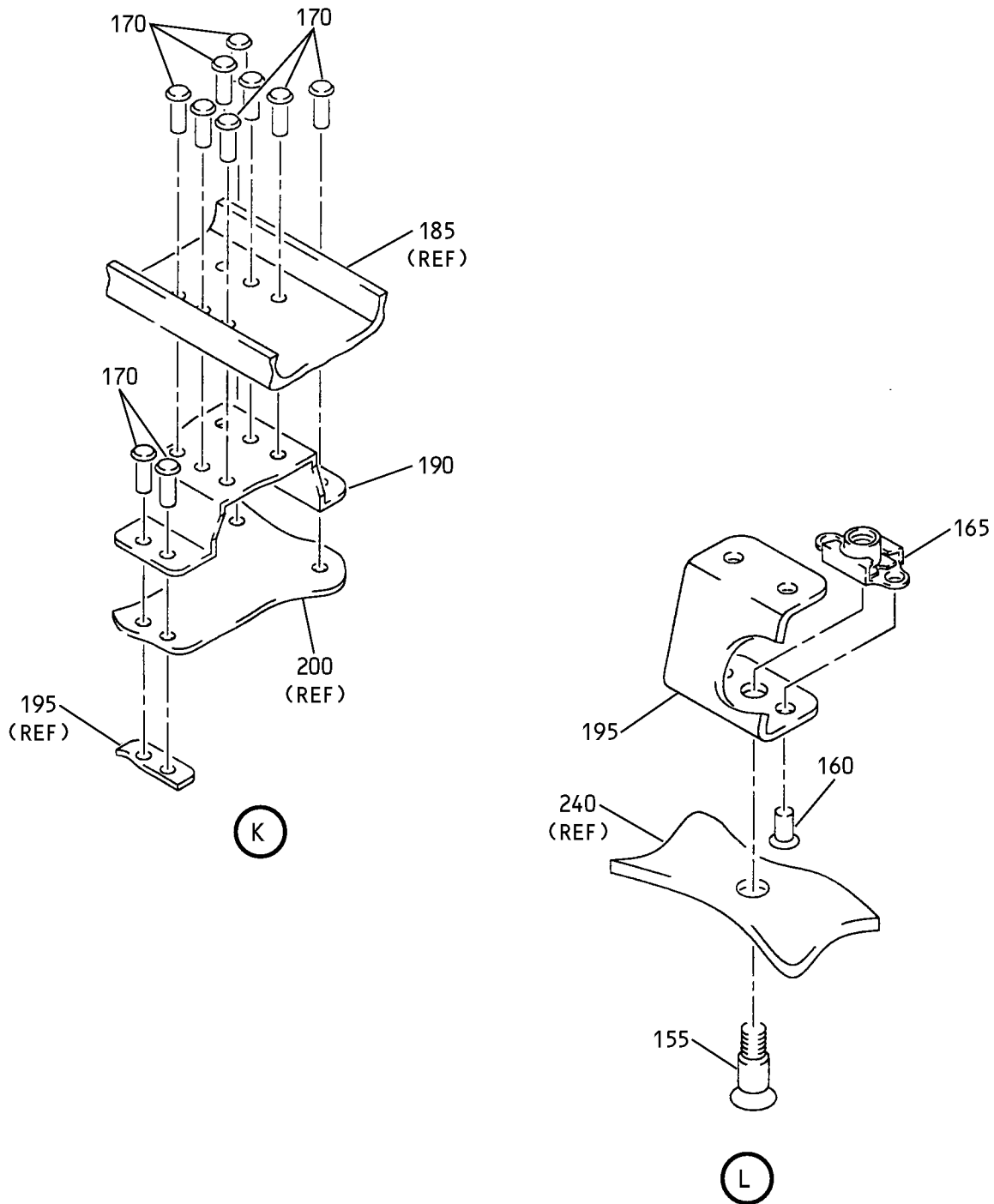
Tail Skid Installation
IPL Figure 2 (Sheet 6 of 8)

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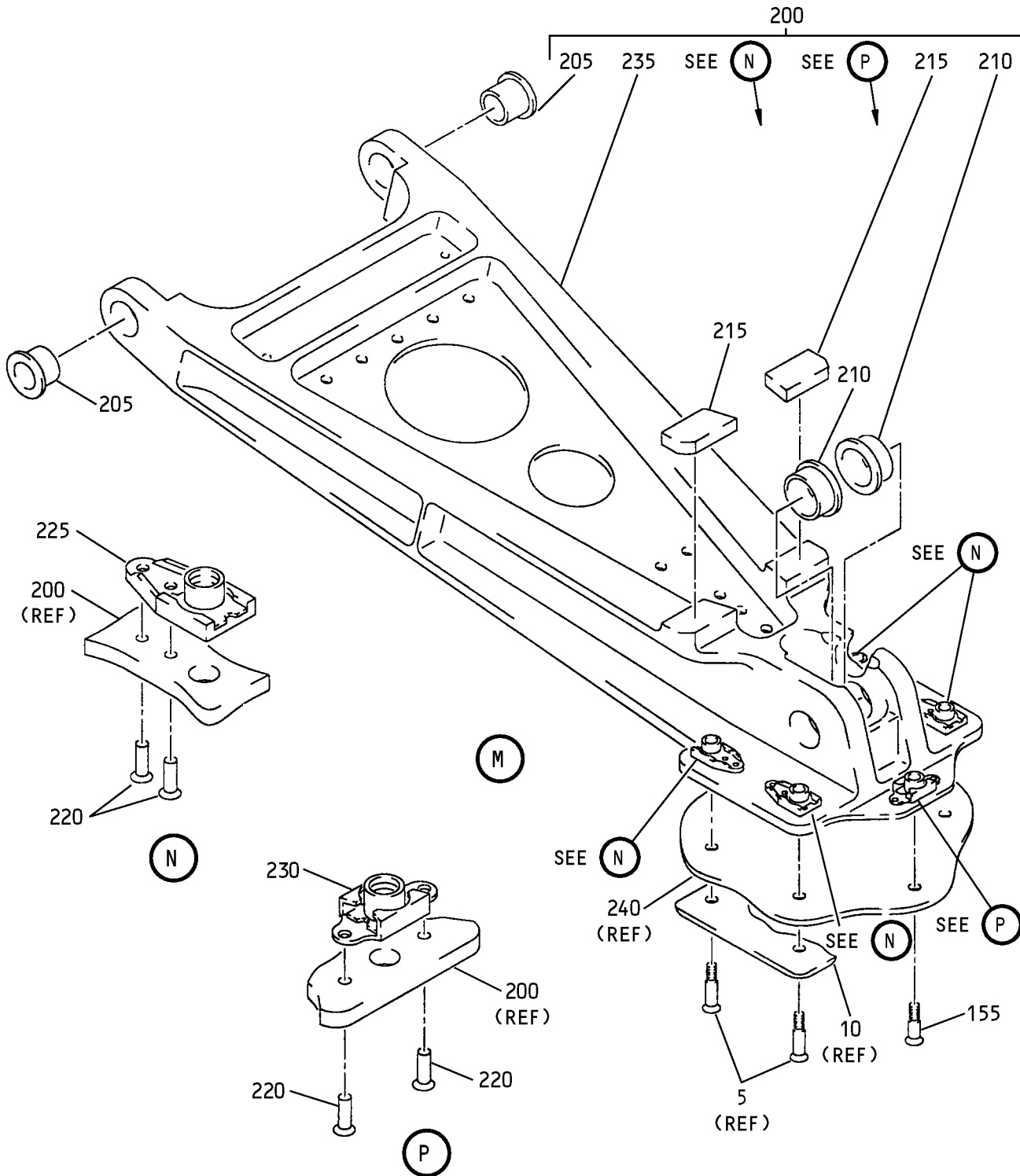
Tail Skid Installation
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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USAGE CODE	UNITS PER ASSY
2-					
-1A	148A7201-2		SKID INSTL-TAIL, SECT. 48	B	RF
5	BACB30LH3-8		. BOLT	B	4
10	65C32975-3		. SHOE	B	1
15	BACB30PU12-34		. BOLT	B	1
20	BACB30PU12-39		. BOLT	B	1
25	BACW10BP12CD		. WASHER	B	2
30	BACW10BP10DP		. WASHER	B	2
35	102LH9074-10		. NUT (V72962) (SPEC BACN10JC10CD) (OPT H51650-10BAC (V15653)) (OPT 69235-1018CD (V92215)) (OPT BMN4122CPD8-10 (V97928))	B	2
40	148A7260-1		. CARTRIDGE ASSY	B	1
45	NAS6703-5		. . BOLT	B	8
50	BACW10BP3DP		. . WASHER	B	8
55	H52732-3CD		. . NUT (V15653) (SPEC BACN10YR3CD) (OPT PLH53CD (V62554))	B	8
60	148A7261-1		. . END ASSY-UPR	B	1
65	AW12VCRG12		. . . BEARING (V15860) (SPEC BACB10AB12M) (OPT BSSR12856EC2 (V81376)) (OPT KWB12-20CRGD5 (V97613)) (OPT WG12EM (V73134)) (OPT 55289M (V09455)) (OPT HU12-134M (V02758)) (OPT WC12G1DM (V56644)) (OPT ABW12V5-12 (V50294)) (OPT ABW12V5-12 (VS0352))	B	1
70	BACB28AA16B150		. . . BUSHING	B	1
75	148A7261-2		. . . FITTING-ROD END	B	1
80	148A7261-3		. . END ASSY-LWR	B	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– 85	AW12VCRG12		. . . BEARING (V15860) (SPEC BACB10AB12M) (OPT BSSR12856EC2 (V81376)) (OPT KWB12-20CRGD5 (V97613)) (OPT WG12EM (V73134)) (OPT 55289M (V09455)) (OPT HU12-134M (V02758)) (OPT WC12G1DM (V56644)) (OPT ABW12V5-12 (V50294)) (OPT ABW12V5-12 (VS0352))	B	1
90	148A7261-4		. . . FITTING-ROD END (OPT ITEM 90A)	B	1
–90A	148A7261-5		. . . FITTING-ROD END (OPT ITEM 90)	B	1
95	MCU8238		. . CARTRIDGE (V51344) (SPEC 10-62168-2)	B	1
100	NAS3103-4-6		. BOLT	B	1
105	MS25082-3		. NUT	B	2
110	NAS1149D0332J		. WASHER	B	2
115	H52732-3CD		. NUT (V15653) (SPEC BACN10YR3CD) (OPT PLH53CD (V62554))	B	2
120	BACB30PU8-33		. BOLT	B	2
125	BACW10BP8CD		. WASHER	B	2
130	BACW10BP7DP		. WASHER	B	2
135	H52732-7CD		. NUT (V15653) (SPEC BACN10YR7CD) (OPT PLH57CD (V62554))	B	2
140	148A7250-5		. SKID ASSY	B	1
145	BACR15GF5D		. . RIVET (SIZE DETERMINED ON INST)	B	16
150	148A7256-2		. . ANGLE	B	4
155	BACB30VF3K3		. . BOLT	B	7
160	BACR15BA3AD		. . RIVET (SIZE DETERMINED ON INST)	B	12

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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– 165	BRF200C3D		. . NUTPLATE (V52828) (SPEC BACN10JR3CFD) (OPT K51602-3BAC (V15653)) (OPT NS202476-02 (V80539)) (OPT 102F9201-3 (V72962)) (OPT T8092C1032CD (V11815))	B	6
170	BACR15FT5D		. . RIVET (SIZE DETERMINED ON INST)	B	21
175	148A7256-8		. . BRACKET	B	1
180	148A7256-5		. . BRACKET	B	2
185	148A7256-6		. . BRACKET	B	1
190	148A7256-7		. . BRACKET	B	1
195	148A7256-9		. . BRACKET	B	1
200	148A7250-6		. . LINK ASSY-DRAG	B	1
205	MS14102-8CP		. . . BEARING	B	2
210	BACB28W12B064		. . . BUSHING	B	2
215	148A7250-8		. . . PAD	B	2
220	BACR15BA3AD		. . . RIVET (SIZE DETERMINED ON INST)	B	10
225	BRF100C3D		. . . NUTPLATE (V52828) (SPEC BACN10KB3CFD) (OPT NS202478-02 (V80539)) (OPT 102F9207P3 (V72962)) (OPT F51604-3 (V15653))	B	4
230	BRF200C3D		. . . NUTPLATE (V52828) (SPEC BACN10JR3CFD) (OPT K51602-3BAC (V15653)) (OPT NS202476-02 (V80539)) (OPT 102F9201-3 (V72962)) (OPT T8092C1032CD (V11815))	B	1
235	148A7250-7		. . . LINK	B	1
240	148A7255-4		. . SKIRT	B	1

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