



# **COMPONENT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS LIST**

## **INBOARD FLAP OUTBOARD CARRIAGE ASSEMBLY**

**PART NUMBER  
113A2850-1, -2, -201, -202, -3, -4, -5, -6**

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## COMPONENT MAINTENANCE MANUAL

Revision No. 9  
Jul 01/2009

To: All holders of INBOARD FLAP OUTBOARD CARRIAGE ASSEMBLY 27-55-72.

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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## COMPONENT MAINTENANCE MANUAL

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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		PRR 38006	MAR 01/97
		PRR 38609	JUL 01/05

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TR AND SB RECORD

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Revision		Filed		Revision		Filed	
Number	Date	Date	Initials	Number	Date	Date	Initials



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All temporary revisions to this manual will be accompanied by a cover sheet bearing the temporary revision number. Enter the temporary revision number in numerical order, together with the temporary revision date, the date the temporary revision is inserted and the initials of the person filing. When the temporary revision is incorporated or cancelled, and the pages are removed, enter the date the pages are removed and the initials of the person who removed the temporary revision.

Temporary Revision		Inserted		Removed		Temporary Revision		Inserted		Removed	
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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

### INBOARD FLAP OUTBOARD CARRIAGE ASSEMBLY - DESCRIPTION AND OPERATION

#### 1. Description

- A. The inboard flap outboard carriage assembly has two titanium carriage fitting assemblies, an aluminum bridge fitting, delrin rub plate assemblies, titanium/CRES eccentric roller cartidge assemblies, CRES rollers, and titanium roller pin assemblies. On later assemblies, the eccentric adjustment function is not necessary, and the roller cartridge assemblies are replaced with rollers and pins.
- B. The carriage assembly is attached to the main inboard flap and rides on the flap track.

#### 2. Operation

- A. When the ballscrew turns, it moves the inboard flap outboard carriage assembly along the support track assembly to adjust the flap assembly for maximum aerodynamic performance.

#### 3. Leading Particulars (Approximate)

- A. Length – 21 inches
- B. Width – 10 inches
- C. Height – 18 inches
- D. Weight – 45 pounds

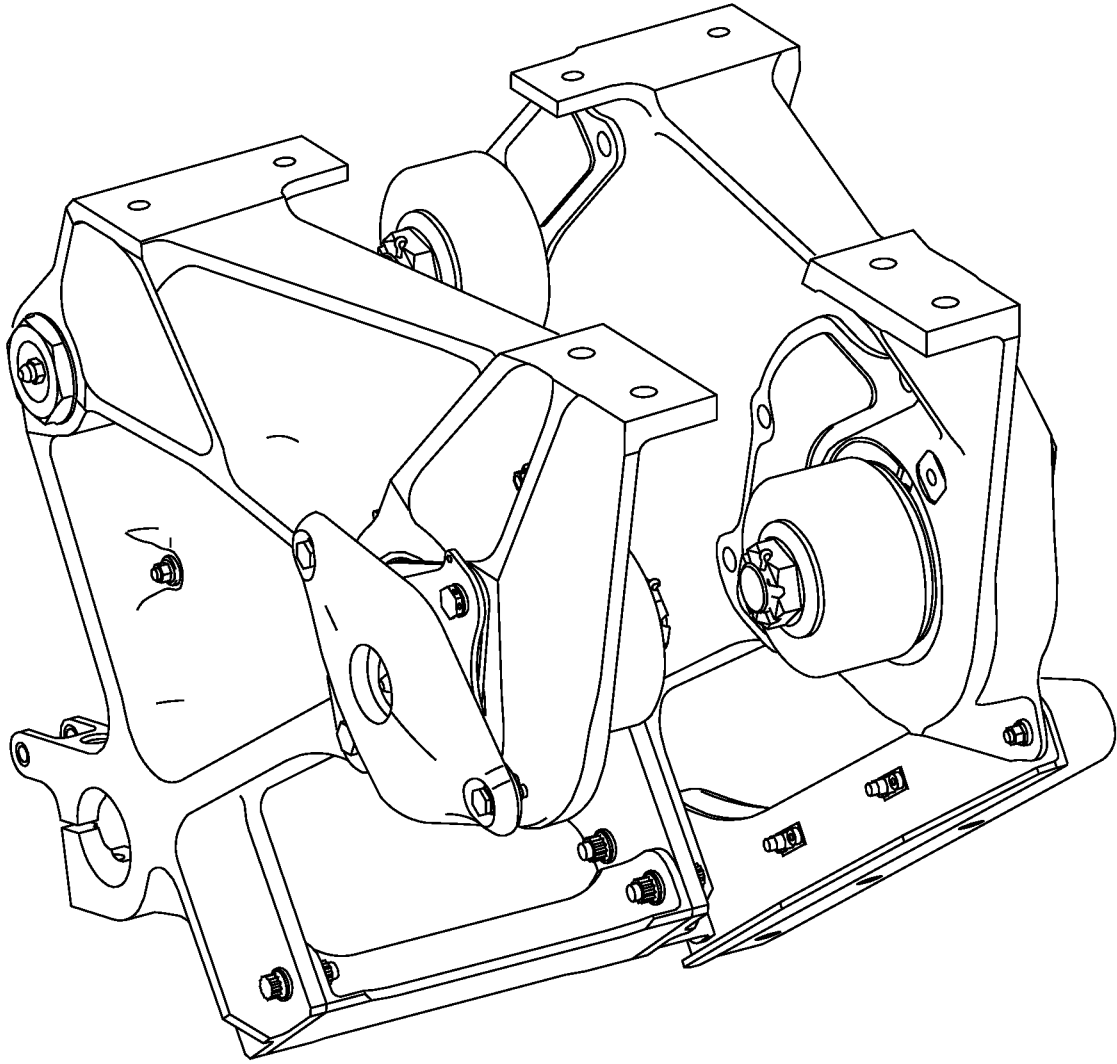
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113A2850-1 SHOWN  
113A2850-2 OPPOSITE

Inboard Flap Outboard Carriage Assembly  
Figure 1 (Sheet 1 of 2)

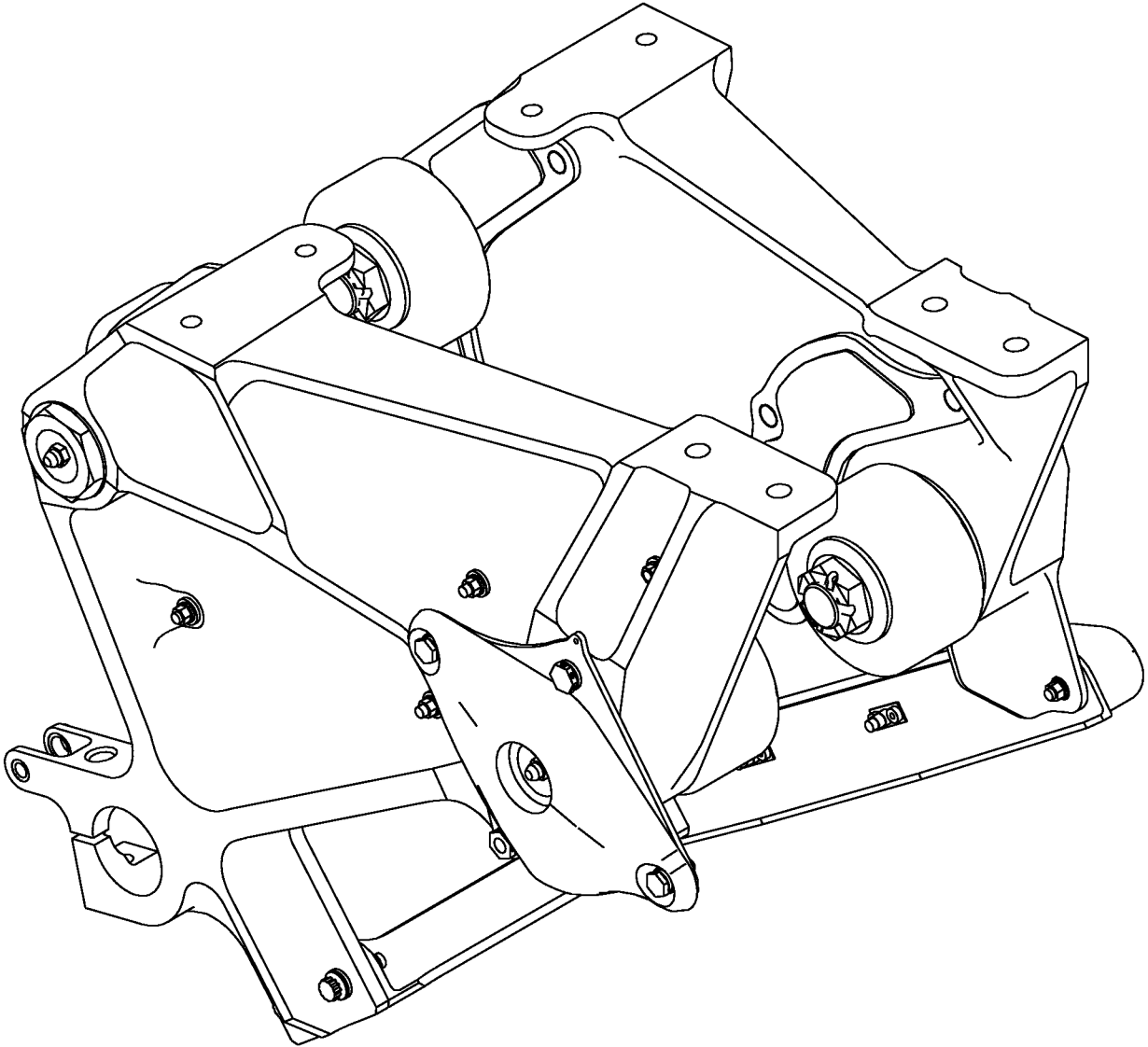
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113A2850-3,-5,-201 SHOWN  
113A2850-4,-6,-202 OPPOSITE

Inboard Flap Outboard Carriage Assembly  
Figure 1 (Sheet 2 of 2)

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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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## COMPONENT MAINTENANCE MANUAL

### DISASSEMBLY

#### 1. General

- A. This procedure has the data to disassemble the inboard flap outboard carriage assembly (IPL Figure 1; 1A, 5), (IPL Figure 2; 1A, 5).
- 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 IPL Figure 1 or IPL Figure 2 for the item numbers.

#### 2. Disassembly

##### A. Procedure

- (1) Use standard industry practices and these steps to disassemble this component.

**NOTE:** Do not disassemble the parts that are assembled with rivets unless repair or replacement is necessary.

- (2) Disassemble the assemblies 113A2850-1, -2 (IPL Figure 1).

- (a) Remove the roller cartridge assemblies (20, 25, 145, 150) from the fitting assemblies (460, 465, 470, 475).

- 1) Remove the lockwire from the bolts (10).

- 2) Remove the bolts (10), washers (15), and the roller cartridge assemblies (20, 25, 145, 150).

**NOTE:** Do not disassemble the roller cartridge assemblies unless repair or replacement is necessary.

- (b) Remove the rollers (240A) from the fitting assemblies (460, 465, 470, 475).

- 1) Remove the cotter pins (225).

- 2) Remove the nuts (230), washers (235, 245), rollers (240A), and the pin assemblies (250).

- (c) Remove the fasteners (265 thru 275) and the rub plate assemblies (280 thru 295).

**NOTE:** Do not disassemble the rub plate assemblies. The Delrin pads (300, 305) are molded in place and cannot be replaced.

- (d) Remove the fasteners (330 thru 350), then remove the fitting assembly (380, 385) and the rub block assembly (355, 360) from the inboard fitting assembly (470, 475).

- (e) Remove the fasteners (410 thru 445), then remove the clip (450) and the bridge fitting (455) from the fitting assemblies (460, 465, 470, 475).

**NOTE:** Do not disassemble the fitting assemblies unless it is necessary for repair or replacement.

- (3) Disassemble the assemblies 113A2800-3, -4, -5, -6, -201, -202 (IPL Figure 2).

- (a) Remove the lockwire from the bolt (10).

- (b) Remove the bolts (10, 115), washers (15, 120, 125), and nut (130), then remove the retainer assembly (135) from the outboard fitting assembly (375, 380).

- (c) Remove the bolts (25) and washers (30), then remove the rub block assembly (35) from the retainer assembly (135).

- (d) Remove the rollers (105, 110) from the fitting assemblies (375, 380, 420, 425).

- 1) Remove the cotter pins (50) from the pin assemblies (75, 90) and nuts (55).

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- 2) Remove the nuts (55), washers (60, 65, 70), rollers (105, 110), and the pin assemblies (75, 90).
- (e) Remove the fasteners (155 thru 165) and the rub plate assemblies (170 thru 185).

**NOTE:** Do not disassemble the rub plate assemblies. The Delrin pads (190, 195) are molded in place and cannot be replaced.

- (f) Remove the fasteners (275 thru 290, 300 thru 315), then remove the fitting assembly (345, 350) and the rub block assembly (320, 325) from the inboard fitting assembly (420, 425).
- (g) Remove the fasteners (225 thru 265), and remove the clip (295) and the bridge fitting (270) from the fitting assemblies (375, 380, 420, 425).

**NOTE:** Do not disassemble the fitting assemblies unless it is necessary for repair or replacement.

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DISASSEMBLY

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## COMPONENT MAINTENANCE MANUAL

### CLEANING

#### 1. General

- A. This procedure has the data to clean the inboard flap outboard carriage assembly (IPL Figure 1; 1A, 5), (IPL Figure 2; 1A, 5).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 or IPL Figure 2 for the item numbers.

#### 2. Cleaning

##### A. References

Reference	Title
SOPM 20-30-03	GENERAL CLEANING PROCEDURES

##### B. Procedure

- (1) Clean sealed bearings by the vendor's instructions.
- (2) Clean all other parts by standard industry practices and the instructions in SOPM 20-30-03.

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CLEANING

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## COMPONENT MAINTENANCE MANUAL

### CHECK

#### 1. General

- A. This procedure has the data to find defects in the specified parts.
- B. Refer to FITS AND CLEARANCES for 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 or IPL Figure 2 for the 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 practices to do a visual check of all the parts for defects. Do the penetrant or magnetic particle checks if the visual check shows possible damage or if you think there are defects on the parts.
- (2) Do a magnetic particle check (SOPM 20-20-01) of these parts:
  - (a) Washer (IPL Figure 1; 85, 95, 165, 175, 235, 245), (IPL Figure 2; 60, 65, 70).
- (3) Do a penetrant check (SOPM 20-20-02) of these parts:
  - (a) Fitting (IPL Figure 1; 400, 405, 505, 510, 515, 520), (IPL Figure 2; 365, 370, 410, 415, 440, 445)
  - (b) Bolt (IPL Figure 1; 110, 190, 260), (IPL Figure 2; 85, 100).
  - (c) Plate (IPL Figure 1; 310, 315, 320, 325), (IPL Figure 2; 200, 205, 210, 215)
  - (d) Housing (IPL Figure 1; 135, 140, 215, 220)
- (4) Do a check of the rub plate assemblies (IPL Figure 1; 280, 285, 290, 295), (IPL Figure 2; 170, 175, 180, 185).
  - (a) Visually check the molded pad (IPL Figure 1; 300, 305), (IPL Figure 2; 190, 195) on the rub plate assemblies for evidence of separation from the rub plate. Gaps of 0.005 inch or less are acceptable.
  - (b) Do a check of the thickness of the rub plate assembly as shown in FITS AND CLEARANCES, Figure 801.
- (5) Do a check of the thickness of the rub block assemblies (IPL Figure 1; 355, 360), (IPL Figure 2; 320, 325) as shown in FITS AND CLEARANCES, Figure 801.

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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:**

<b>PART NUMBER</b>	<b>NAME</b>	<b>REPAIR</b>
—	REFINISH OF OTHER PARTS	1-1
113A2861	INBOARD FITTING ASSEMBLY	2-1, 2-2
113A2862	OUTBOARD FITTING ASSEMBLY	3-1, 3-2
113A2650	ROLLER CARTRIDGE ASSEMBLY	4-1, 4-2

#### 2. Dimensioning Symbols

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

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REPAIR - GENERAL

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—	STRAIGHTNESS	$\oplus$	THEORETICAL EXACT POSITION OF A FEATURE (TRUE POSITION)
$\square$	FLATNESS	$\varnothing$	DIAMETER
$\perp$	PERPENDICULARITY (OR SQUARENESS)	$s \varnothing$	SPHERICAL DIAMETER
//	PARALLELISM	R	RADIUS
$\bigcirc$	ROUNDNESS	SR	SPHERICAL RADIUS
$\bigcirc$	CYLINDRICITY	( )	REFERENCE
$\frown$	PROFILE OF A LINE	BASIC (BSC) OR	A THEORETICALLY EXACT DIMENSION USED TO DESCRIBE SIZE, SHAPE OR LOCATION OF A FEATURE FROM WHICH PERMISSIBLE VARIATIONS ARE ESTABLISHED BY TOLERANCES ON OTHER DIMENSIONS OR NOTES.
$\triangle$	PROFILE OF A SURFACE	<b>DIM</b>	
$\odot$	CONCENTRICITY	<b>-A-</b>	DATUM
$\equiv$	SYMMETRY	$\textcircled{M}$	MAXIMUM MATERIAL CONDITION (MMC)
$\sphericalangle$	ANGULARITY	$\textcircled{L}$	LEAST MATERIAL CONDITION (LMC)
$\nearrow$	RUNOUT	$\textcircled{S}$	REGARDLESS OF FEATURE SIZE (RFS)
$\nearrow$	TOTAL RUNOUT	$\textcircled{P}$	PROJECTED TOLERANCE ZONE
$\sqsubset$	COUNTERBORE OR SPOTFACE	FIM	FULL INDICATOR MOVEMENT
$\sphericalangle$	COUNTERSINK	TIR	TOTAL INDICATOR READING

### EXAMPLES

$\boxed{-0.002}$	STRAIGHT WITHIN 0.002	$\boxed{\textcircled{\varnothing}0.0005 C}$	CONCENTRIC TO C WITHIN 0.0005 DIAMETER
$\boxed{\perp 0.002 B}$	PERPENDICULAR TO B WITHIN 0.002	$\boxed{\equiv 0.010 A}$	SYMMETRICAL WITH A WITHIN 0.010
$\boxed{\parallel 0.002 A}$	PARALLEL TO A WITHIN 0.002	$\boxed{\sphericalangle 0.005 A}$	ANGULAR TOLERANCE 0.005 WITH A
$\boxed{\bigcirc 0.002}$	ROUND WITHIN 0.002	$\boxed{\oplus \varnothing 0.002 \textcircled{S} B}$	LOCATED AT TRUE POSITION WITHIN 0.002 DIA RELATIVE TO DATUM B, REGARDLESS OF FEATURE SIZE
$\boxed{\bigcirc 0.010}$	CYLINDRICAL SURFACE MUST LIE BETWEEN TWO CONCENTRIC CYLINDERS, ONE OF WHICH HAS A RADIUS 0.010 INCH GREATER THAN THE OTHER	$\boxed{\perp \varnothing 0.010 \textcircled{M} A}$ $\boxed{0.510 \textcircled{P}}$	AXIS IS TOTALLY WITHIN A CYLINDER OF 0.010-INCH DIAMETER, PERPENDICULAR TO, AND EXTENDING 0.510-INCH ABOVE, DATUM A, MAXIMUM MATERIAL CONDITION
$\boxed{\frown 0.006 A}$	EACH LINE ELEMENT OF THE SURFACE AT ANY CROSS SECTION MUST LIE BETWEEN TWO PROFILE BOUNDARIES 0.006 INCH APART RELATIVE TO DATUM PLANE A	$\boxed{2.000}$	THEORETICALLY EXACT DIMENSION IS 2.000
$\boxed{\triangle 0.020 A}$	SURFACES MUST LIE WITHIN PARALLEL BOUNDARIES 0.02 INCH APART AND EQUALLY DISPOSED ABOUT TRUE PROFILE	OR 2.000 BSC	
<b>NOTE:</b> DATUM MAY APPEAR AT EITHER SIDE OF TOLERANCE FRAME		$\boxed{0.020 A}$ $\boxed{A 0.020}$	

Standard True Position Dimensioning Symbols  
Figure 601

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REPAIR - GENERAL

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## COMPONENT MAINTENANCE MANUAL

### 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 other repairs.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 or IPL Figure 2 for the 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
D00113	Lubricant - Liquid Dispersed Solid Film Lubricant	BMS3-8, BAC 5811, TYPE VIII

##### B. References

Reference	Title
SOPM 20-30-02	STRIPPING OF PROTECTIVE FINISHES
SOPM 20-41-01	DECODING TABLE FOR BOEING FINISH CODES
SOPM 20-60-02	FINISHING MATERIALS
SOPM 20-60-03	LUBRICANTS

##### C. General

- (1) Instructions for the repair of the parts in REPAIR 1-1, Table 601 are for replacement of the original finish.

##### D. Procedure

**NOTE:** For stripping of protective finishes, refer to SOPM 20-30-02. For the decoding table for Boeing finish codes, refer to SOPM 20-41-01. For finishing materials, refer to SOPM 20-60-02. For lubricants, refer to SOPM 20-60-03.

- (1) Refer to REPAIR 1-1, Table 601 for the refinish of other parts.

**Table 601: Refinish Details**

IPL FIG. & ITEM	MATERIAL	FINISH
IPL Fig. 1		
Washer (85,165,235)	PH13-8MO CRES 200- 220 ksi	Passivate (F-17.25).

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REPAIR 1-1

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**Table 601: Refinish Details (Continued)**

IPL FIG. & ITEM	MATERIAL	FINISH
Washer (95,175,245) Bushing (115,120, 195,200)	15-5PH CRES 180- 200 ksi	Passivate (F-17.25).
Bolt (110,190,260)	Titanium	No finish (F-25.01), but apply solid film lubricant, D00113 (F-19.10) to the threads and the thread relief area.
Retainer (125,130, 205,210)	Titanium	No finish (F-25.01), but apply solid film lubricant, D00113 (F-19.10) to the 2-inch diameter serrated hole.
Rub plate assembly (280,285,290,295)		On all bare metal surfaces: Apply primer, C00259 (F-20.02). Apply enamel coating, C00260 (F-21.03). Overspray permitted on Delrin surfaces.
Plate (310,315,320, 325)	Aluminum alloy	Boric acid-sulfuric acid anodize (F-17.31).
Fitting (400,405) Clip (450)	Aluminum alloy	Boric acid-sulfuric acid anodize (F-17.31). Apply primer, C00259 (F-20.02). Apply coating, C00260 (F-19.39-707).
Fitting (455)	Aluminum alloy	Boric acid-sulfuric acid anodize (F-17.31). Apply primer, C00259 (F-20.02).
IPL Fig. 2		
Washer (60)	PH13-8MO CRES 200- 220 ksi	Passivate (F-17.25).
Washer (65,70)	15-5PH CRES 180- 200 ksi	Passivate (F-17.25).
Bolt (85,100)	Titanium	No finish (F-25.01), but apply solid film lubricant, D00113 (F-19.10) to the threads and the thread relief area.
Plate assembly (170,175,180,185)		On all bare metal surfaces: Apply primer, C00259 (F-20.02). Apply coating, C00260 (F-21.03). Overspray permitted on Delrin surfaces.
Plate (200,205,210, 215)	Aluminum alloy	Boric acid-sulfuric acid anodize (F-17.31).
Fitting (270)	Aluminum alloy	Boric acid-sulfuric acid anodize (F-17.31). Apply primer, C00259 (F-20.02).
Fitting (365,370) Clip (295)	Aluminum alloy	Boric acid-sulfuric acid anodize (F-17.31). Apply primer, C00259 (F-20.02). Apply coating, C00260 (F-19.39-707).

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## COMPONENT MAINTENANCE MANUAL

### INBOARD FITTING ASSEMBLY - REPAIR 2-1

113A2861-1, -2, -5, -6

#### 1. General

- A. This procedure has the data to replace the bushings in the inboard fitting assembly (IPL Figure 1; 470, 475), (IPL Figure 2; 420, 425).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 or IPL Figure 2 for the item numbers.

#### 2. Bushing Replacement

- A. Consumable Materials

**NOTE:** Equivalent substitutes may be used.

Reference	Description	Specification
D00633	Grease - Aircraft General Purpose	BMS3-33

- B. References

Reference	Title
SOPM 20-50-03	BEARING AND BUSHING REPLACEMENT
SOPM 20-60-03	LUBRICANTS

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

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

- (1) Remove the damaged or defective bushing (IPL Figure 1; 480, 485, 490), (IPL Figure 2; 430, 435) from the fitting (IPL Figure 1; 515, 520), (IPL Figure 2; 440, 445).
- (2) If you find defects on the fitting surfaces, refer to REPAIR 2-2 for the repair instructions.
- (3) Install the replacement bushing in the fitting with grease, D00633. Use the shrink-fit procedure (SOPM 20-50-03).
- (4) Machine the inside diameter of the bushing to the design dimensions and finish as shown, but do not machine the bushing (IPL Figure 1; 485).

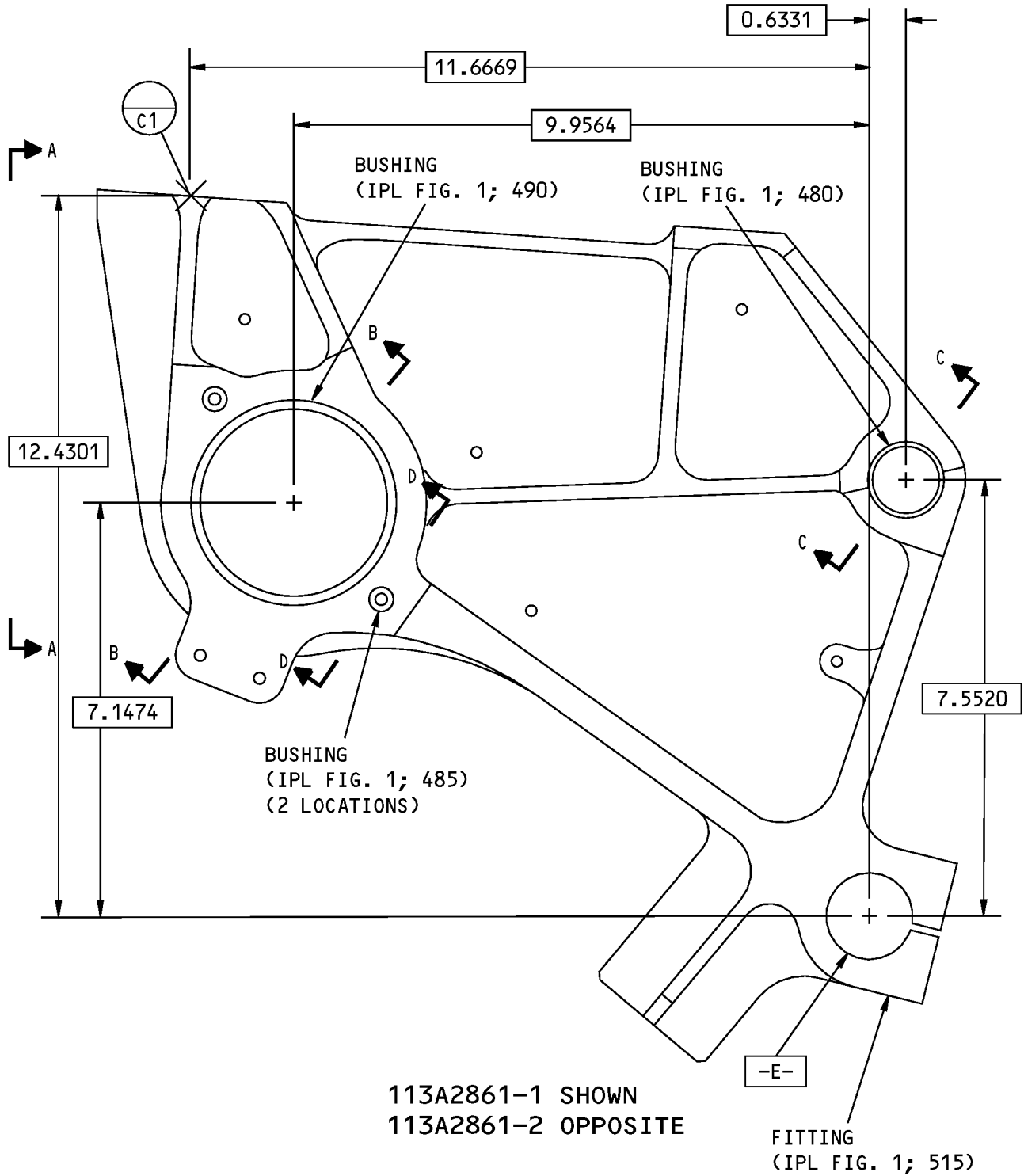
# 27-55-72

REPAIR 2-1

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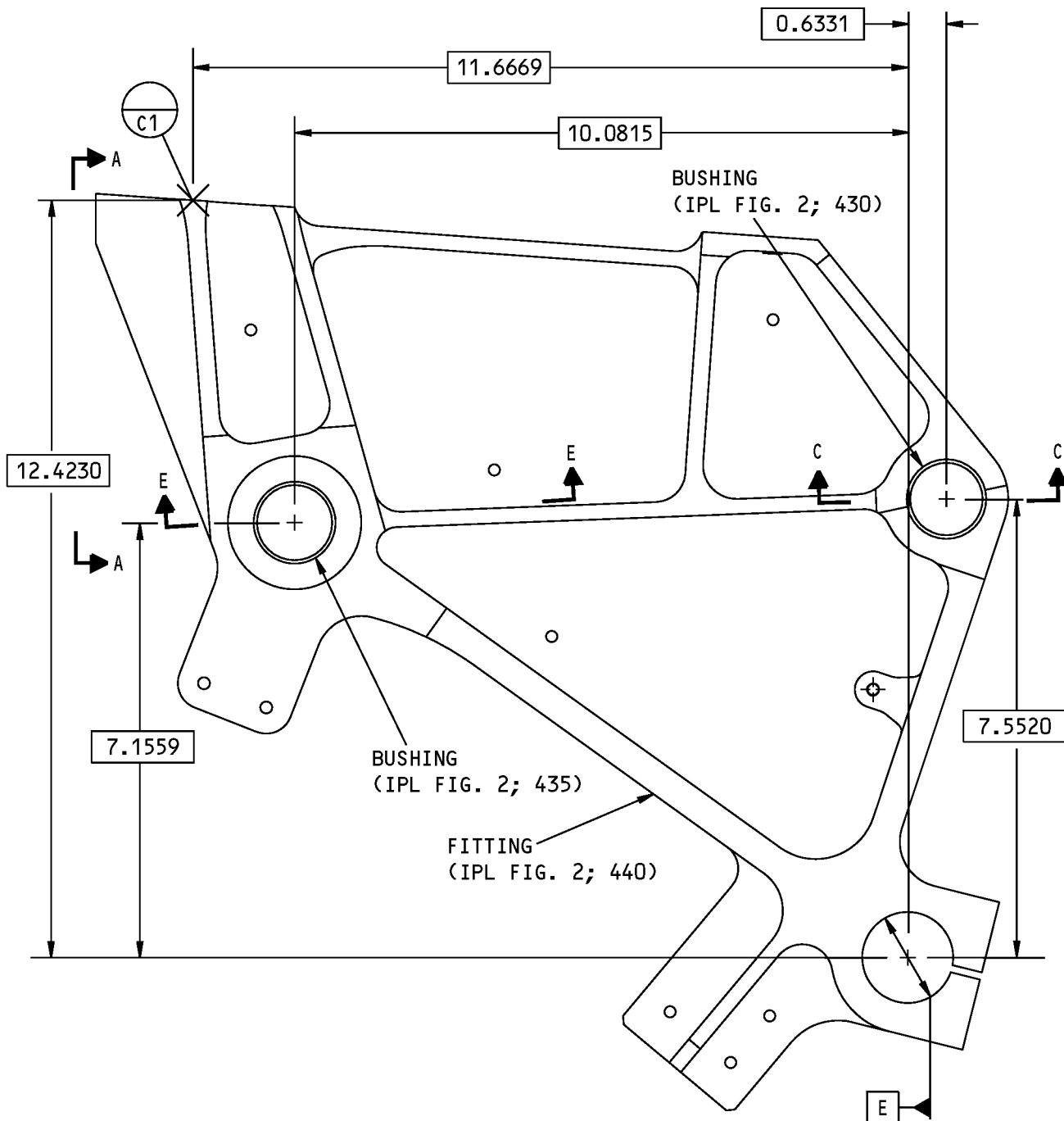
COMPONENT MAINTENANCE MANUAL



113A2861-1,-2,-5,-6 Inboard Fitting Assembly Repair  
Figure 601 (Sheet 1 of 4)

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COMPONENT MAINTENANCE MANUAL



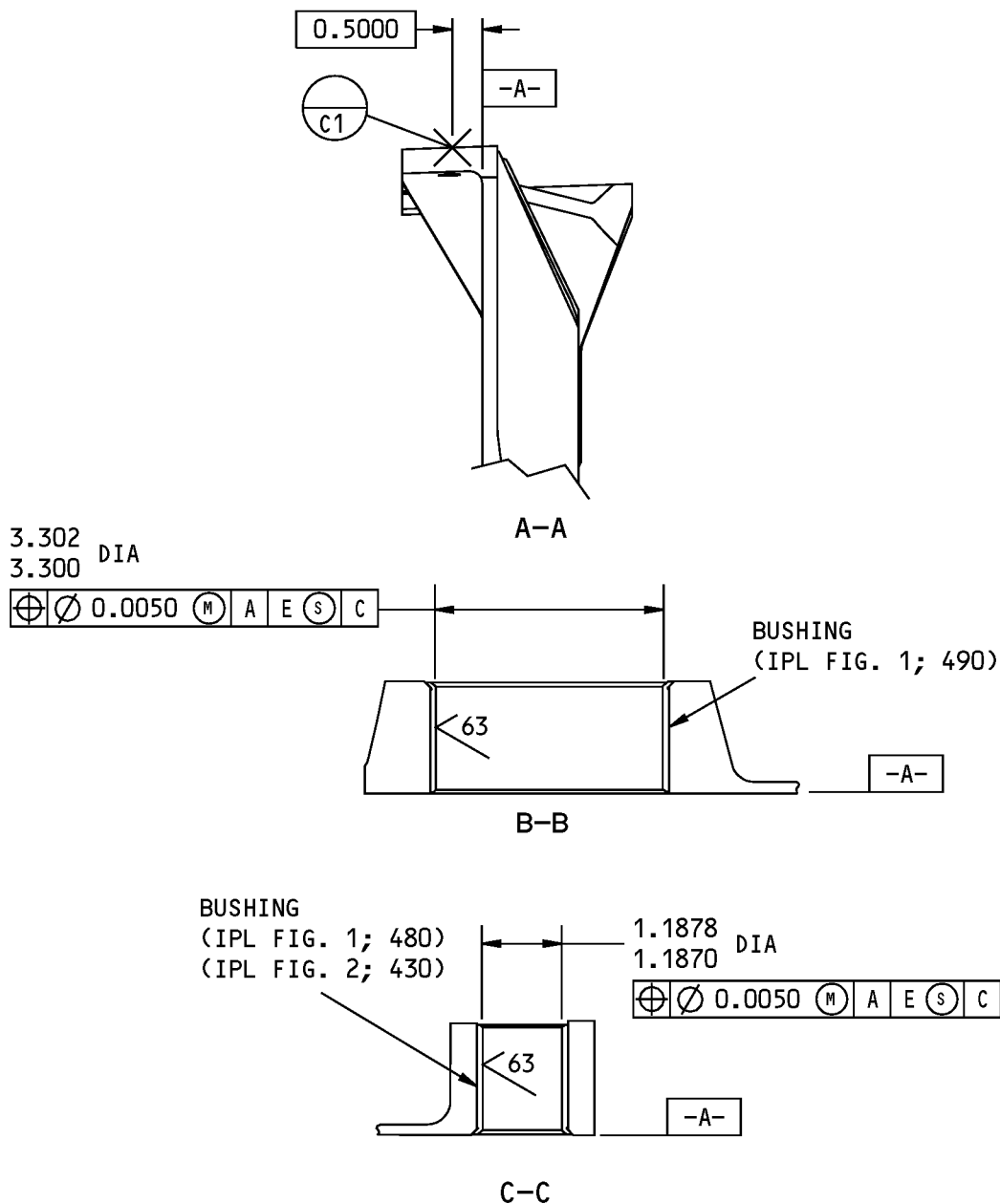
113A2861-5 SHOWN  
113A2861-6 OPPOSITE

113A2861-1,-2,-5,-6 Inboard Fitting Assembly Repair  
Figure 601 (Sheet 2 of 4)

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REPAIR 2-1  
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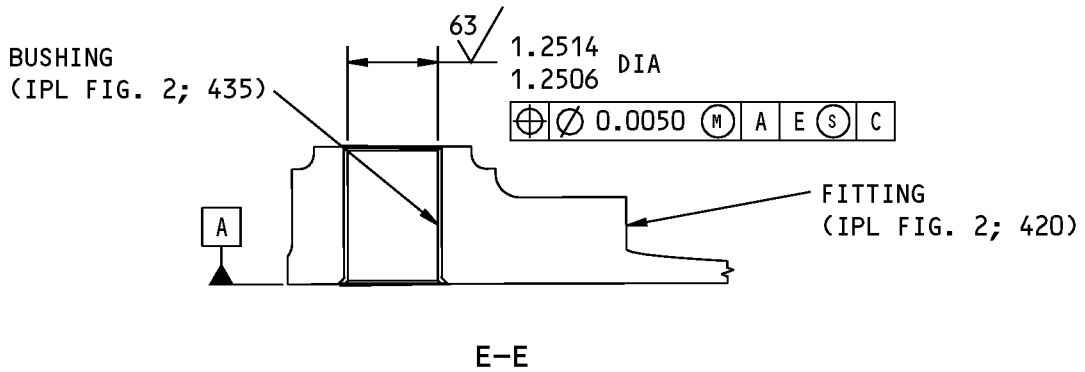
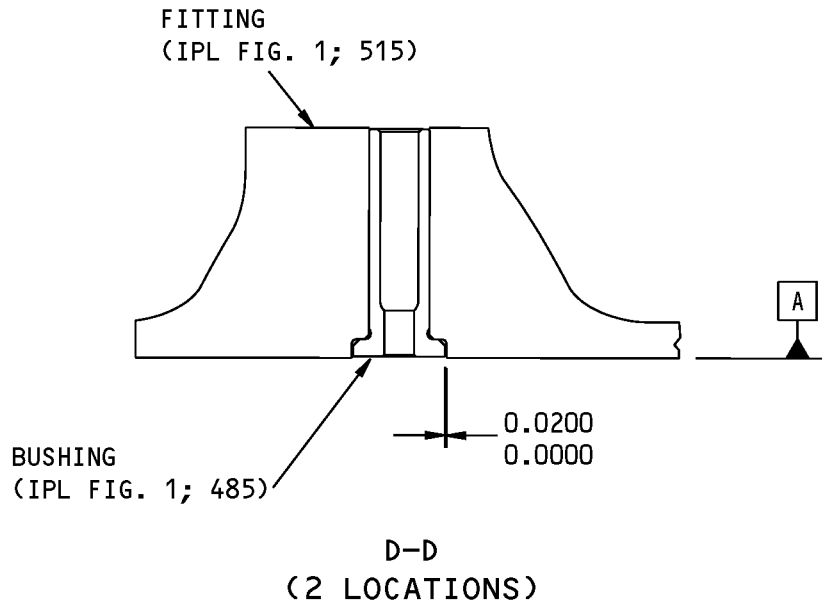
113A2861-1,-2,-5,-6 Inboard Fitting Assembly Repair  
Figure 601 (Sheet 3 of 4)

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

BREAK ALL SHARP EDGES

ALL DIMENSIONS ARE IN INCHES

113A2861-1,-2,-5,-6 Inboard Fitting Assembly Repair  
Figure 601 (Sheet 4 of 4)

**27-55-72**

REPAIR 2-1

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## COMPONENT MAINTENANCE MANUAL

### INBOARD FITTING - REPAIR 2-2

113A2861-3, -4, -7, -8

#### 1. General

- A. This procedure has the data to repair the inboard fitting (IPL Figure 1; 515, 520), (IPL Figure 2; 440, 445).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 or IPL Figure 2 for the item numbers.
- D. General repair details:
  - (1) Material: Titanium alloy
  - (2) Shot Peen: All repaired surfaces, unless shown differently
    - (a) Intensity 0.008-0.013A
    - (b) Coverage 2.0

#### 2. Fitting Repair

- A. Procedure (REPAIR 2-2, Figure 601)
  - (1) Machine the bushing hole in the fitting (IPL Figure 1; 515, 520), (IPL Figure 2; 440, 445) as necessary to remove defects (SOPM 20-10-07). Do not remove more than the repair limits shown.
  - (2) Do a penetrant check of the fitting (SOPM 20-20-02).
  - (3) Shot peen the machined hole (SOPM 20-10-03).
  - (4) Refinish as indicated.
  - (5) Make an oversize bushing (REPAIR 2-2, Figure 602) as necessary to adjust for the material removed from the fitting.
  - (6) Install the bushing as shown in REPAIR 2-1.

#### 3. Fitting 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 20-60-02	FINISHING MATERIALS

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REPAIR 2-2

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

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

- (1) Apply phosphate-fluoride coating (F-14.881) to the fitting (IPL Figure 1; 515, 520), or clean the fitting (F-14.882) (IPL Figure 2; 440, 445).
- (2) Apply primer, C00259 (F-20.02) as indicated.

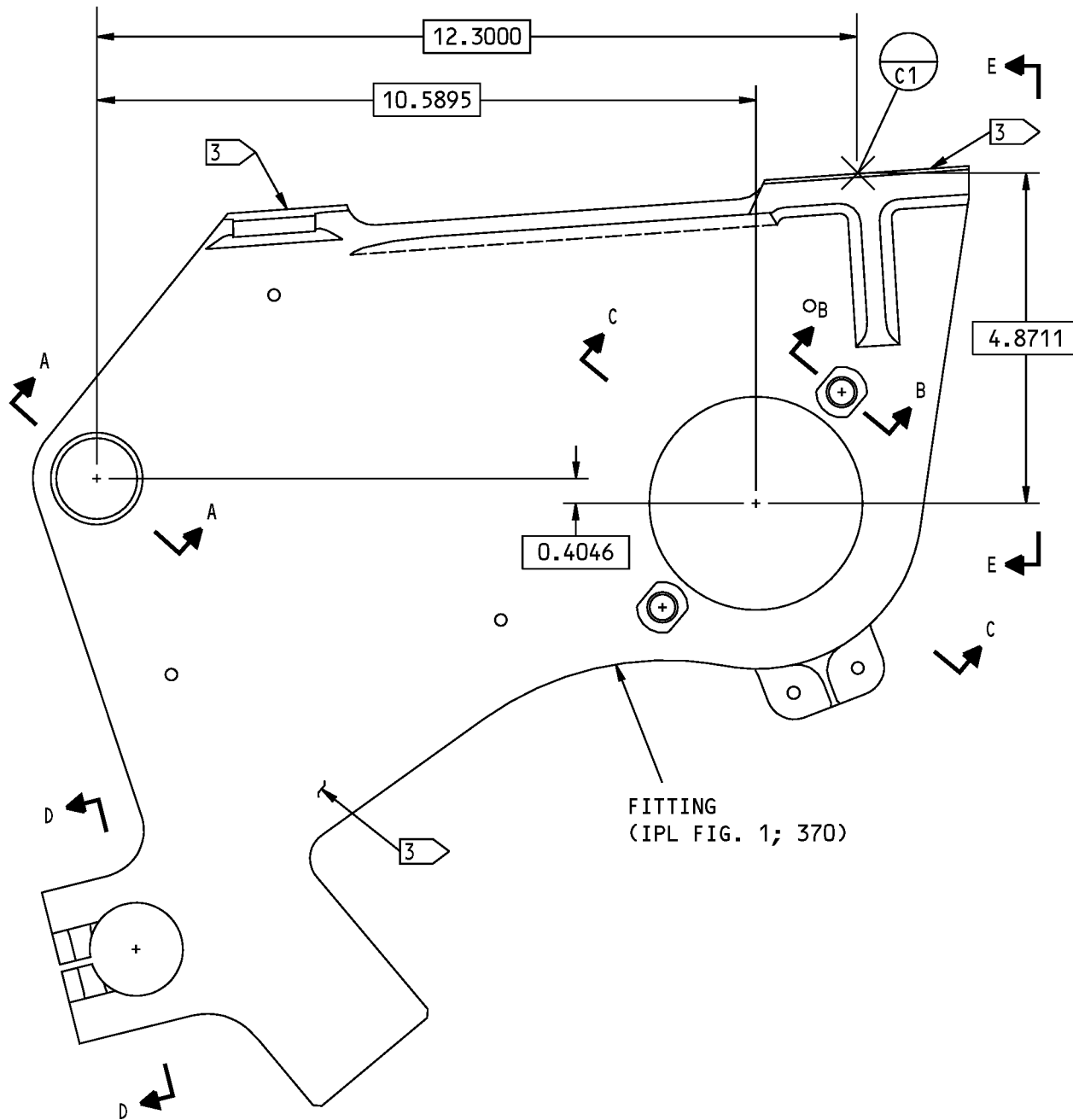
# 27-55-72

REPAIR 2-2

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113A2861-3 SHOWN  
113A2861-4 OPPOSITE

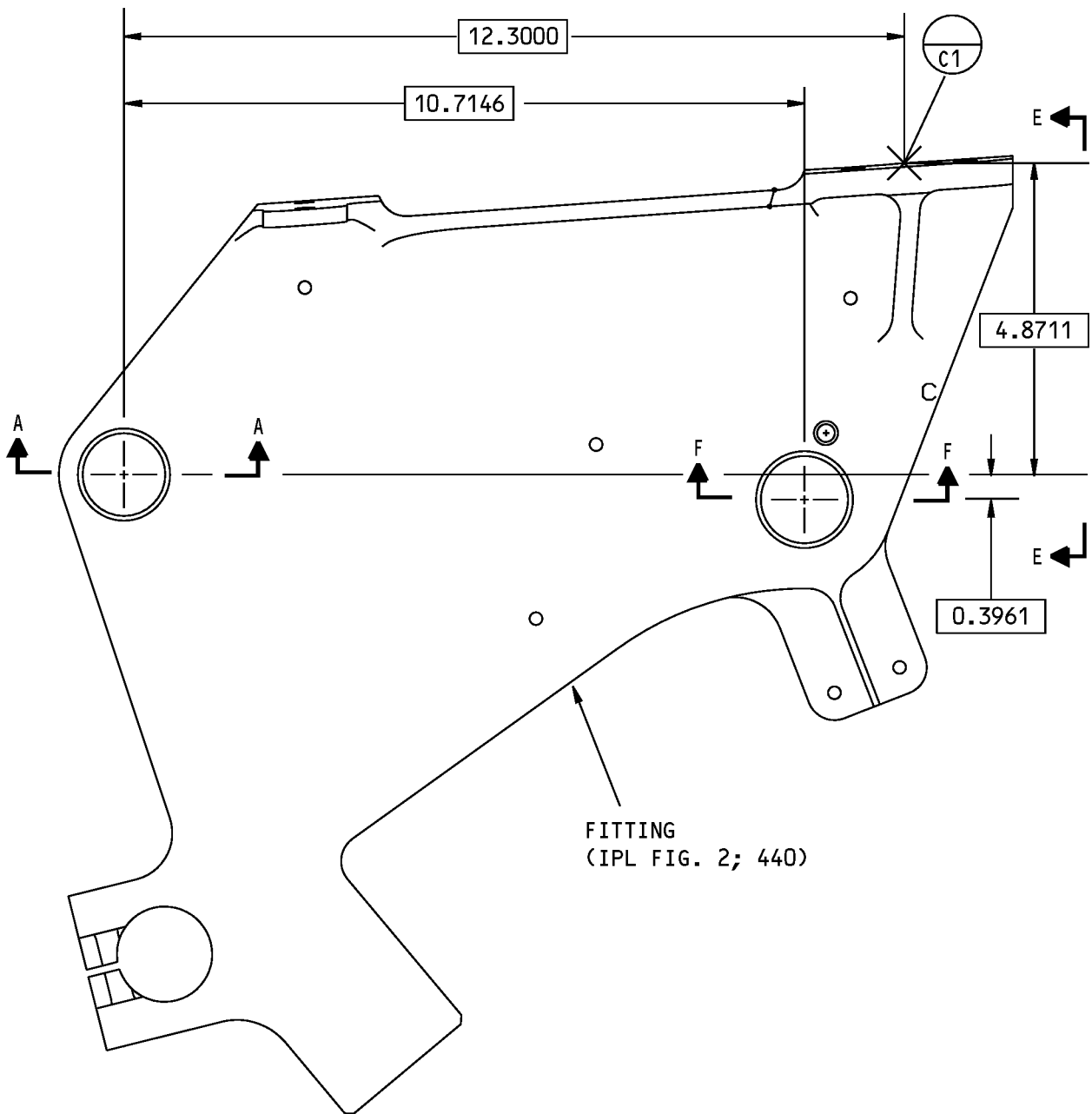
113A2861-3,-4,-7,-8 Inboard Fitting Repair  
Figure 601 (Sheet 1 of 4)

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REPAIR 2-2  
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COMPONENT MAINTENANCE MANUAL



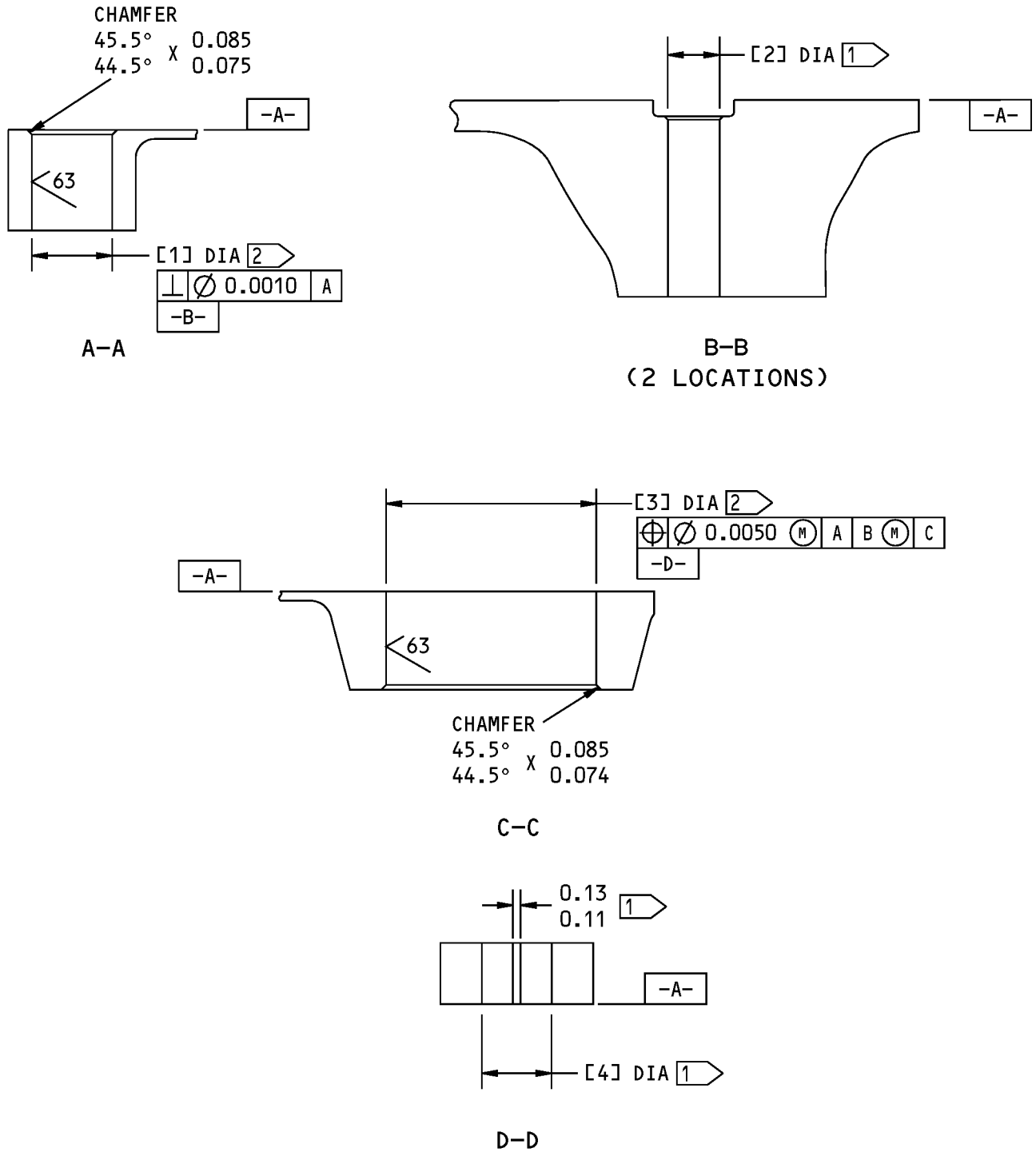
113A2861-7 SHOWN  
113A2861-8 OPPOSITE

113A2861-3,-4,-7,-8 Inboard Fitting Repair  
Figure 601 (Sheet 2 of 4)

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REPAIR 2-2  
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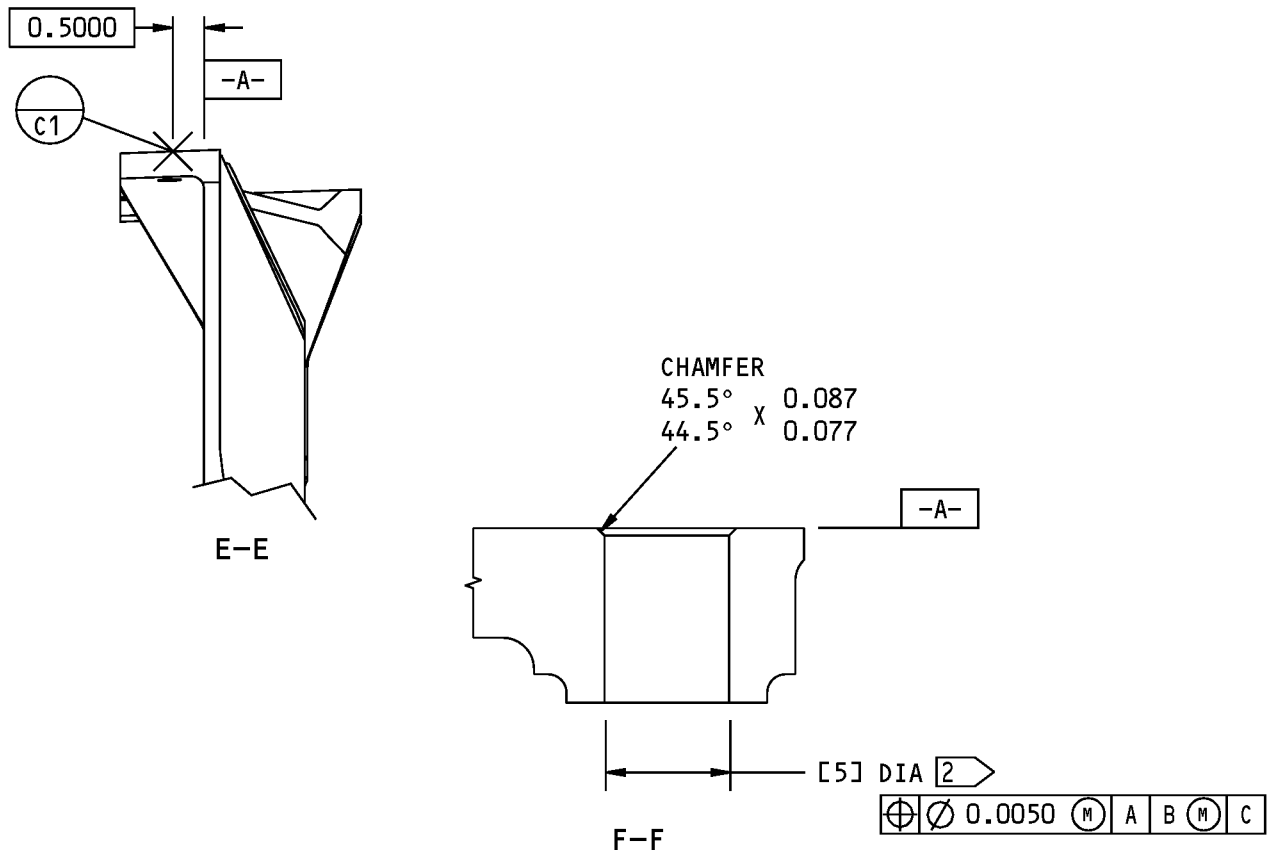


113A2861-3,-4,-7,-8 Inboard Fitting Repair  
 Figure 601 (Sheet 3 of 4)

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REPAIR 2-2  
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REFERENCE NUMBER	[1]	[2]	[3]	[4]	[5]
DESIGN DIMENSION	1.3083 1.3075	0.4194 0.4188	3.4217 3.4200	1.501 1.500	1.3629 1.3621
REPAIR LIMIT [4]	1.3683	---	3.4817	---	1.4229

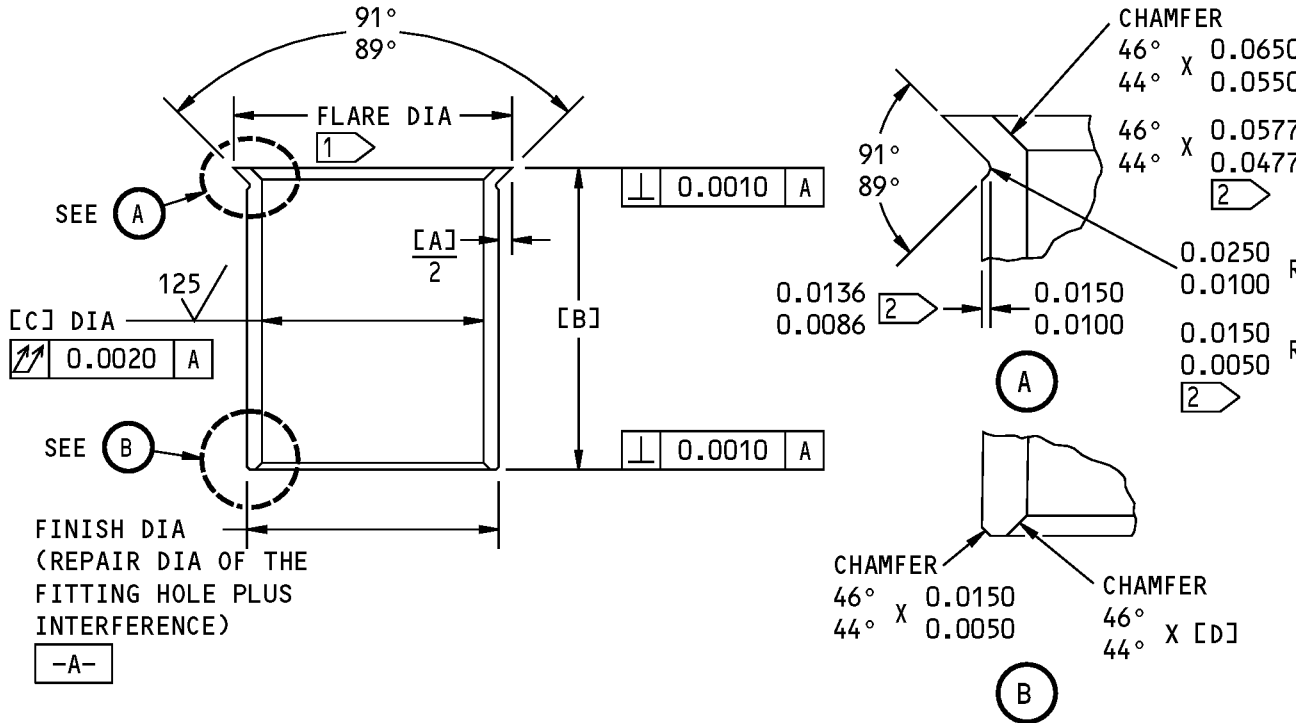
- [1] DO NOT SHOT PEEN THE HOLE OR SLOT
- [2] REMOVE 0.001 MAXIMUM MATERIAL AFTER SHOT PEENING TO GET 63 MICROINCH FINISH
- [3] APPLY BMS 10-11 PRIMER TO THESE SURFACES
- [4] LIMIT FOR INSTALLATION OF OVERSIZE BUSHINGS

125/ ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY  
 BREAK ALL SHARP EDGES  
 ALL DIMENSIONS ARE IN INCHES

113A2861-3,-4,-7,-8 Inboard Fitting Repair  
 Figure 601 (Sheet 4 of 4)

**27-55-72**

COMPONENT MAINTENANCE MANUAL



OVERSIZE REPLACEMENT FOR BUSHINGS AT LOCATIONS [1], [3], [5]

HOLE LOCATION (FIG. 601)	REPLACES BUSHING	[A]	[B]	[C]	[D]	INTERFERENCE
[1]	113A2653-21 (IPL FIG. 1; 480) (IPL FIG. 2; 430)	0.1473	1.5750	1.1750	0.0650	0.0027
		0.1280	1.5650	1.1560	0.0550	0.0012
[3]	113A2653-5 (IPL FIG. 1; 490)	0.1432	1.5750	3.2870	0.0350	0.0068
		0.1248	1.5650	3.2690	0.0250	0.0035
[5]	113A2653-23 (IPL FIG. 2; 435)	0.1546	1.8850	1.2199	0.0600	0.0028
		0.1354	1.8750	1.2183	0.0400	0.0012

63/ ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY

BREAK SHARP EDGES 0.005-0.015 R OR 0.01-0.02 R [2]

MATERIAL: AL-Ni-BRONZE AMS 4640 OR AMS 4880 (113A2653-5 ONLY)

FINISH: NO FINISH

ALL DIMENSIONS ARE IN INCHES

[1] FLARE DIAMETER EQUALS THE FINISH DIAMETER -A- PLUS DIMENSION [A]

[2] ON 113A2653-23 ONLY

Oversize Bushing Details  
Figure 602

**27-55-72**



## COMPONENT MAINTENANCE MANUAL

### OUTBOARD FITTING ASSEMBLY - REPAIR 3-1

113A2862-1, -2, -5, -6

#### 1. General

- A. This procedure has the data to replace the bushings in the outboard fitting assembly (IPL Figure 1; 460, 465), (IPL Figure 2; 375, 380).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 or IPL Figure 2 for the item numbers.

#### 2. Bushing (480, 485, 490, 495, 500) Replacement

- A. Consumable Materials

**NOTE:** Equivalent substitutes may be used.

Reference	Description	Specification
D00633	Grease - Aircraft General Purpose	BMS3-33

- B. References

Reference	Title
SOPM 20-50-03	BEARING AND BUSHING REPLACEMENT
SOPM 20-60-03	LUBRICANTS

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

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

- (1) Remove the damaged or defective bushing (IPL Figure 1; 480, 485, 490, 495, 500), (IPL Figure 2; 385, 390, 395, 400, 405) from the fitting (IPL Figure 1; 505, 510), (IPL Figure 2; 410, 415).
- (2) If you find defects on the fitting surfaces, refer to REPAIR 3-2 for repair instructions.
- (3) Install the replacement bushing in the fitting with grease, D00633. Use the shrink-fit procedure (SOPM 20-50-03).
- (4) Machine the inside diameter of the bushing to the design dimensions and finish as shown, but do not machine the bushing (IPL Figure 1; 485).

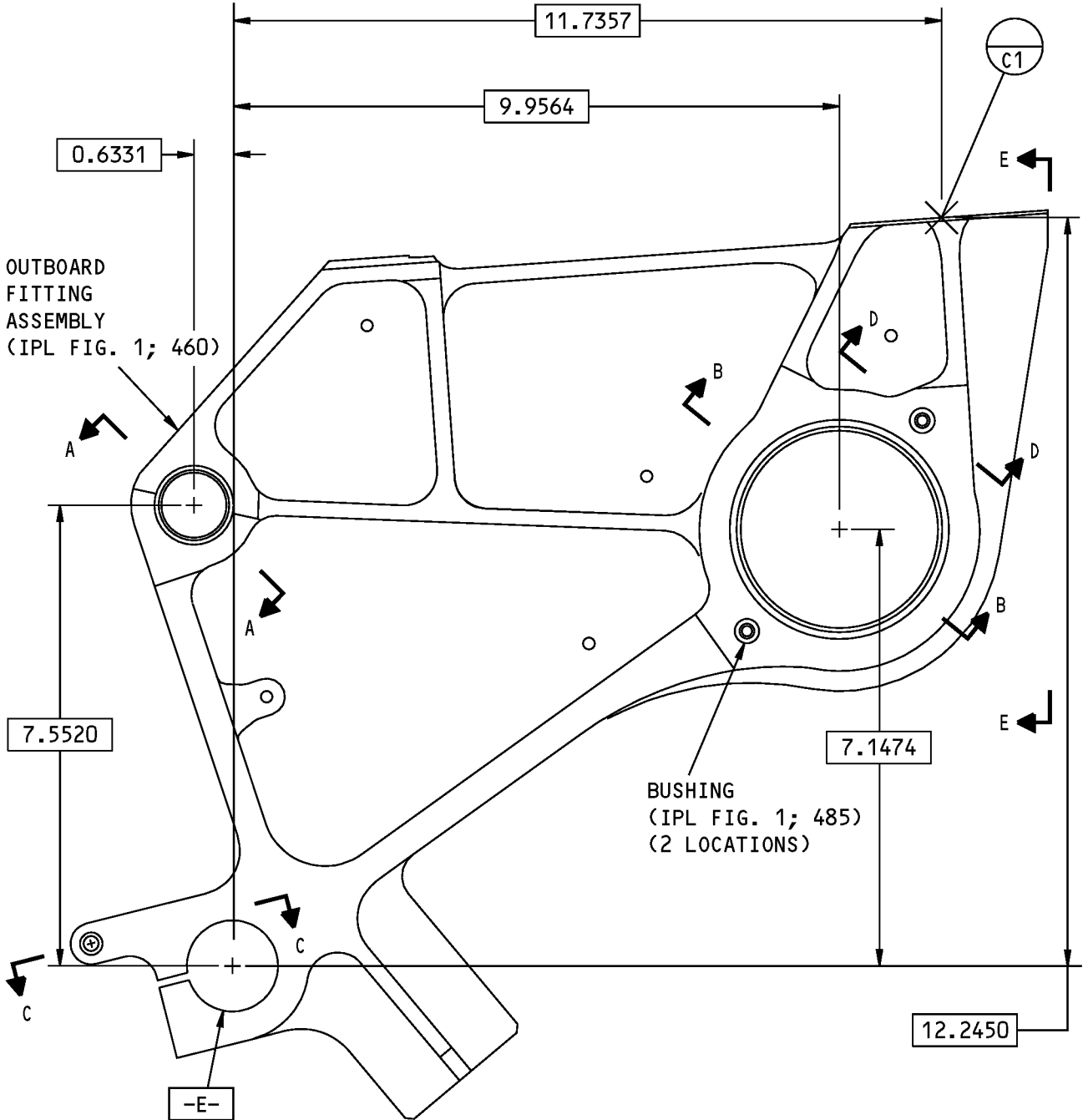
# 27-55-72

REPAIR 3-1

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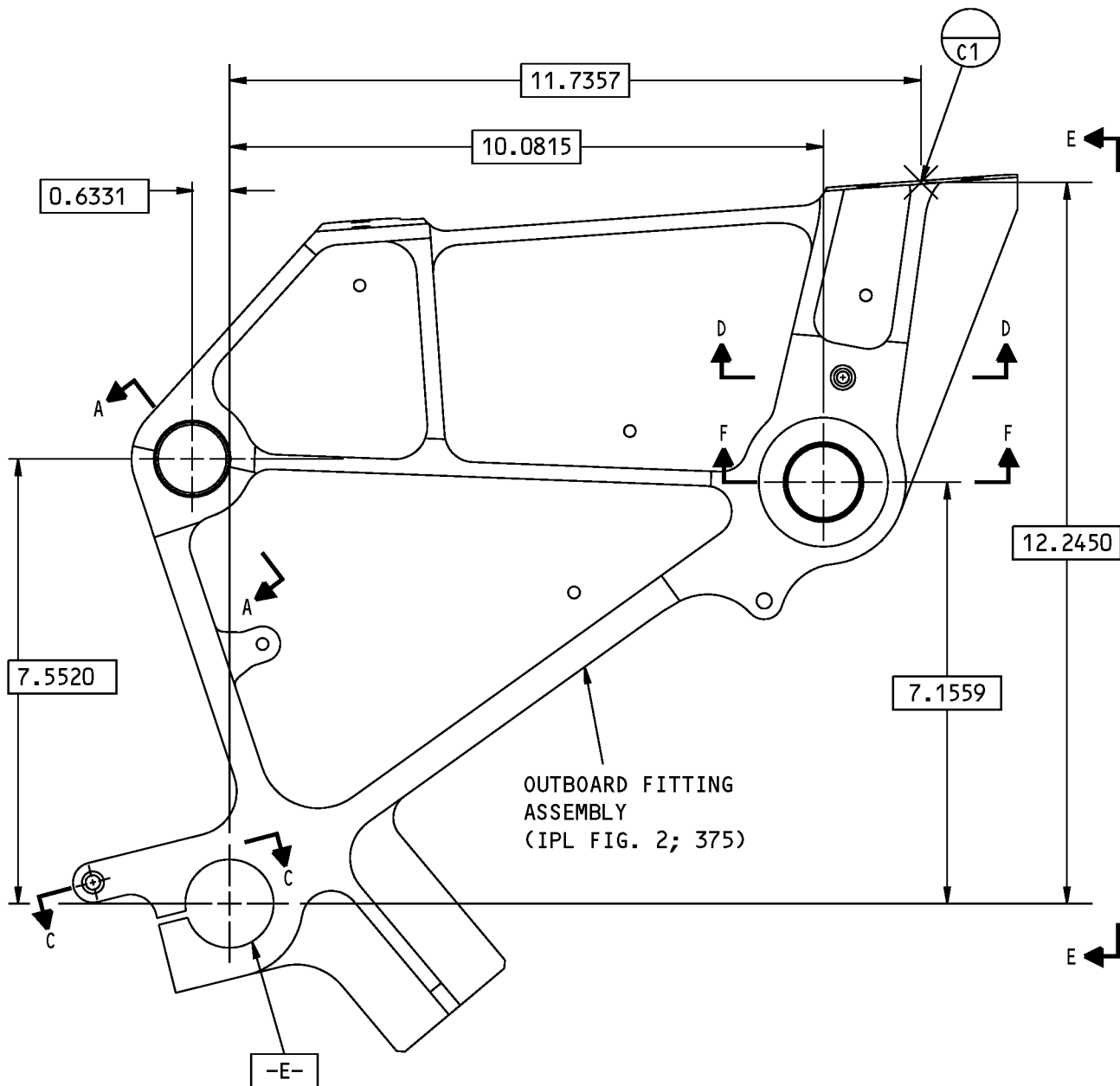
113A2862-1 SHOWN  
 113A2862-2 OPPOSITE

113A2862-1,-2,-5,-6 Outboard Fitting Assembly Repair  
 Figure 601 (Sheet 1 of 4)

**27-55-72**

REPAIR 3-1  
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COMPONENT MAINTENANCE MANUAL



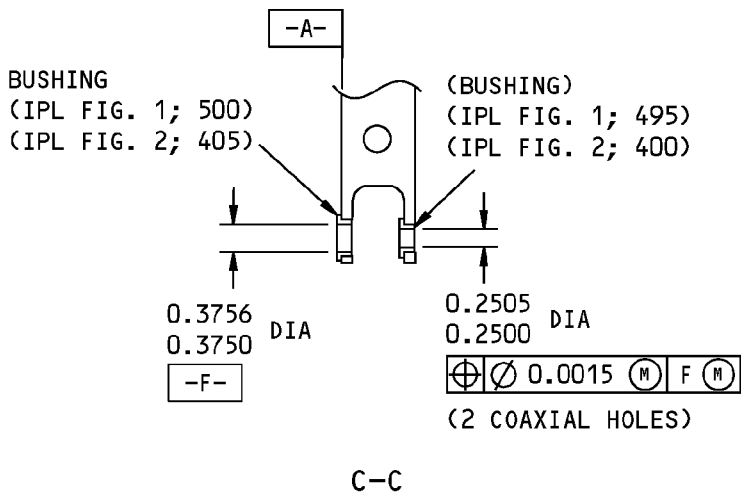
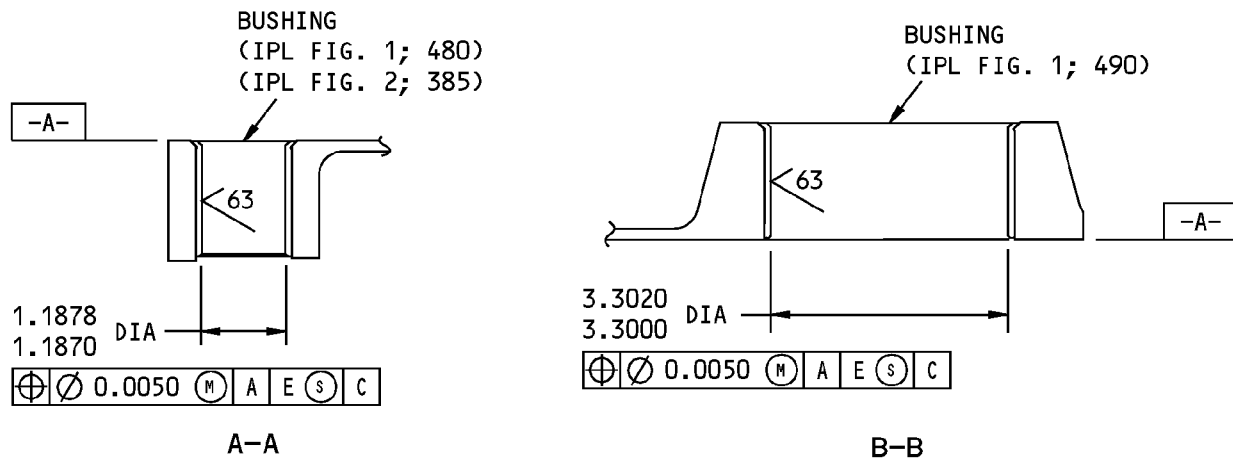
113A2862-5 SHOWN  
113A2862-6 OPPOSITE

113A2862-1,-2,-5,-6 Outboard Fitting Assembly Repair  
Figure 601 (Sheet 2 of 4)

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REPAIR 3-1  
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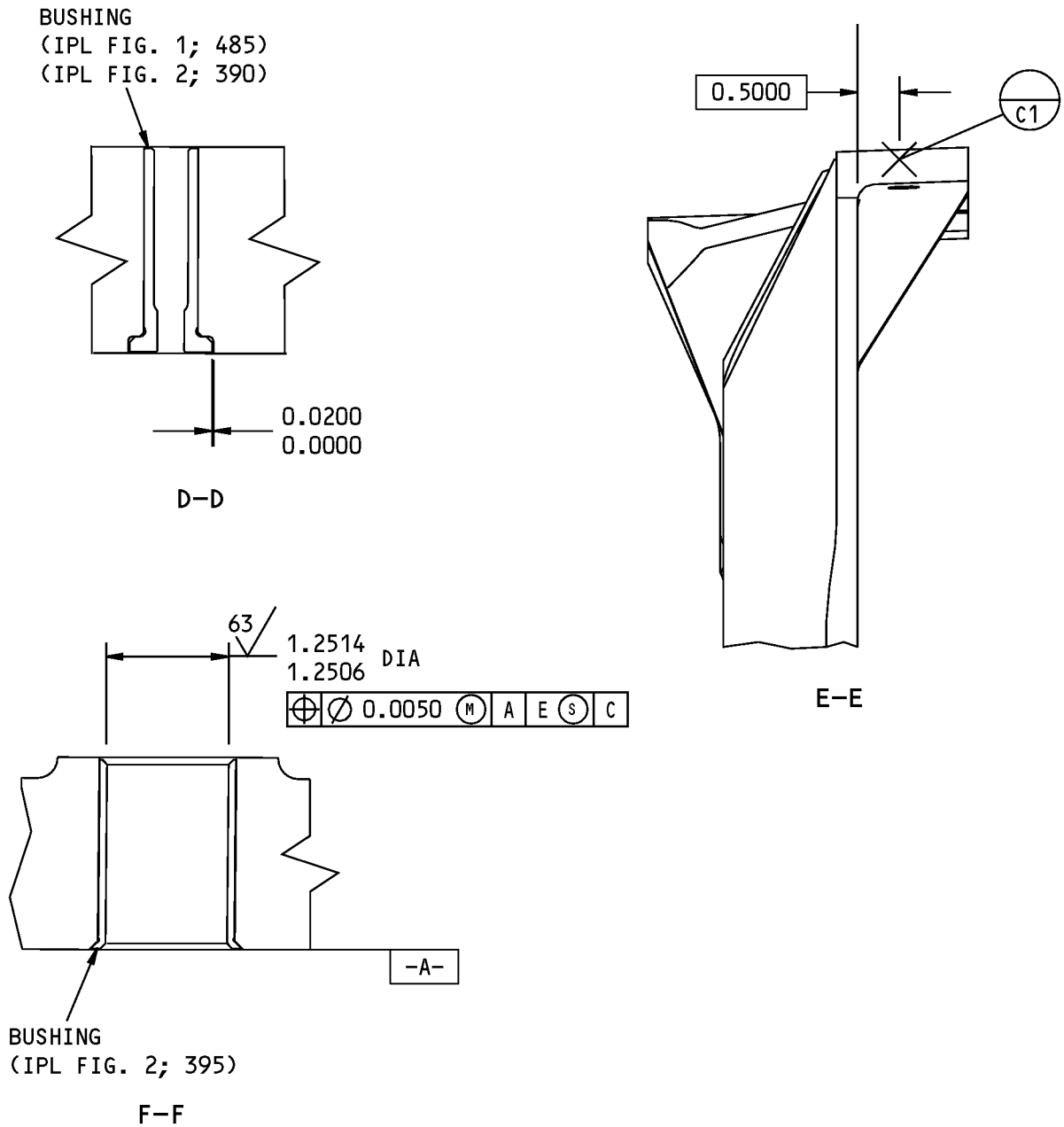
113A2862-1,-2,-5,-6 Outboard Fitting Assembly Repair  
Figure 601 (Sheet 3 of 4)

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REPAIR 3-1  
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COMPONENT MAINTENANCE MANUAL



125/ ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY

BREAK ALL SHARP EDGES

ALL DIMENSIONS ARE IN INCHES

113A2862-1,-2,-5,-6 Outboard Fitting Assembly Repair  
Figure 601 (Sheet 4 of 4)

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REPAIR 3-1

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## COMPONENT MAINTENANCE MANUAL

### OUTBOARD FITTING - REPAIR 3-2

113A2862-3, -4, -7, -8

#### 1. General

- A. This procedure has the data to repair the outboard fitting (IPL Figure 1; 505, 510), (IPL Figure 2; 410, 415).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 or IPL Figure 2 for the item numbers.
- D. General repair details:
  - (1) Material: Titanium alloy
  - (2) Shot Peen: All repaired surfaces, unless shown differently
    - (a) Intensity 0.008-0.013A
    - (b) Coverage 2.0

#### 2. Bushing Hole Repair

- A. Procedure (REPAIR 3-2, Figure 601)
  - (1) Machine the bushing hole in the fitting (IPL Figure 1; 505, 510), (IPL Figure 2; 410, 415) as necessary to remove defects (SOPM 20-10-07). Do not remove more than the repair limits shown.
  - (2) Do a penetrant check of the fitting (SOPM 20-20-02).
  - (3) Shot peen the machined hole (SOPM 20-10-03).
  - (4) Refinish as indicated.
  - (5) Make an oversize bushings (REPAIR 3-2, Figure 602 and REPAIR 3-2, Figure 603) as necessary to adjust for the material removed from the fitting.
  - (6) Install the bushing as shown in REPAIR 3-1.

#### 3. Fitting 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. Procedure (REPAIR 3-2, Figure 601)

- (1) Apply phosphate-fluoride coating (F-14.881) to the fitting (IPL Figure 1; 505, 510), or clean the fitting (F-14.882) (IPL Figure 2; 410, 415).
- (2) Apply primer, C00259 (F-20.02) as shown.

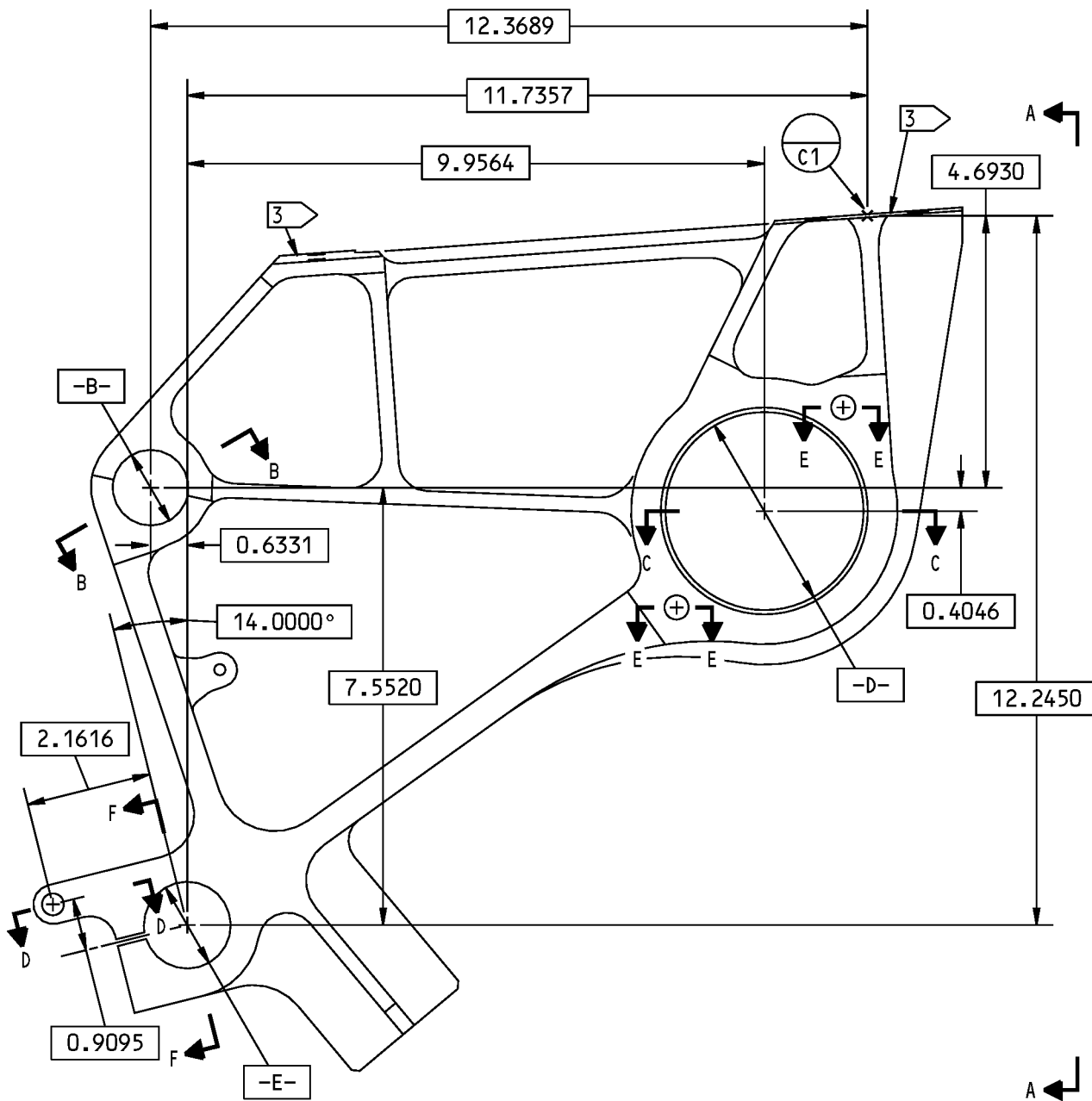
# 27-55-72

REPAIR 3-2

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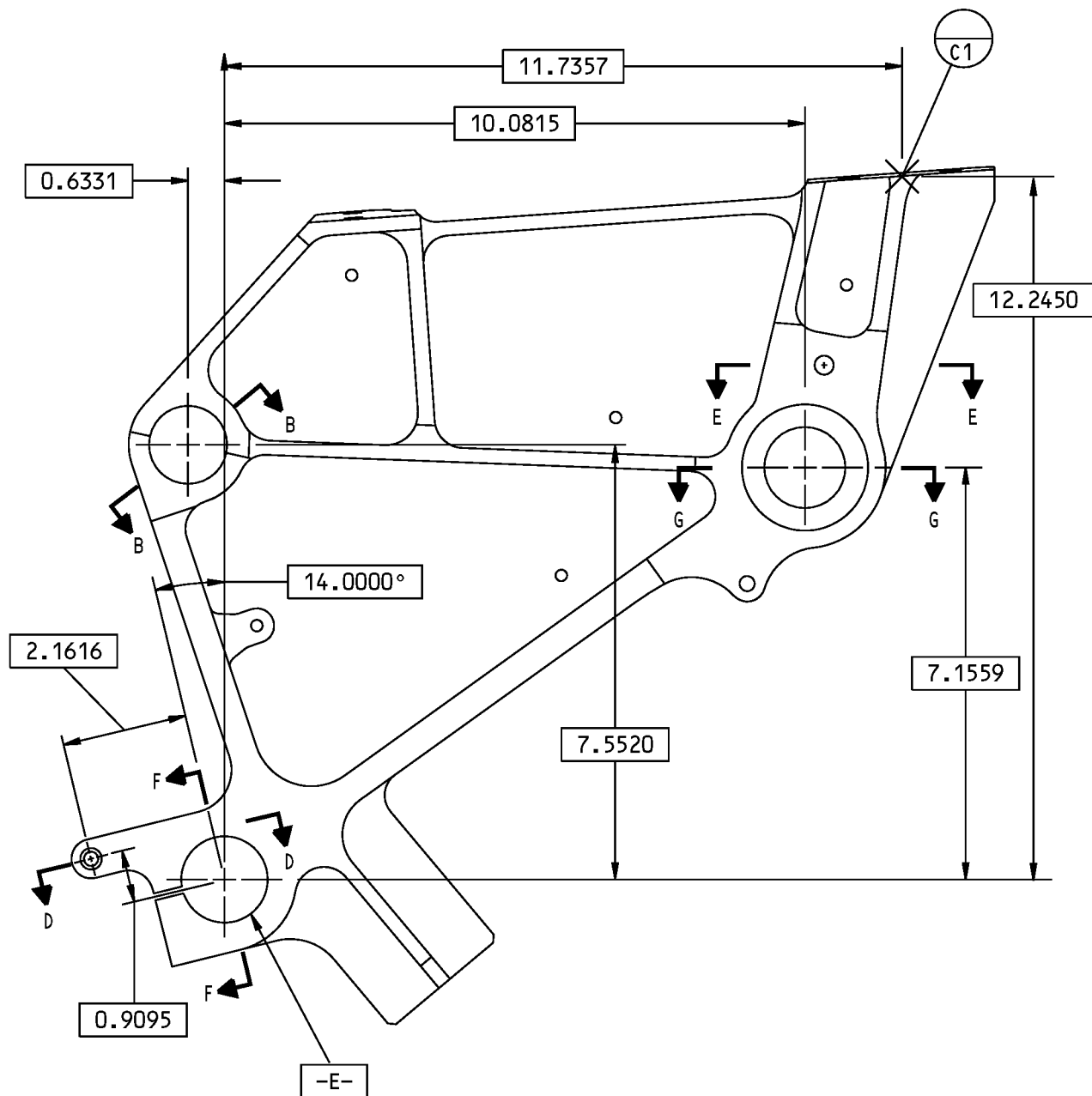
113A2862-3 SHOWN  
113A2862-4 OPPOSITE

113A2862-3,-4,-7,-8 Outboard Fitting Repair  
Figure 601 (Sheet 1 of 4)

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REPAIR 3-2  
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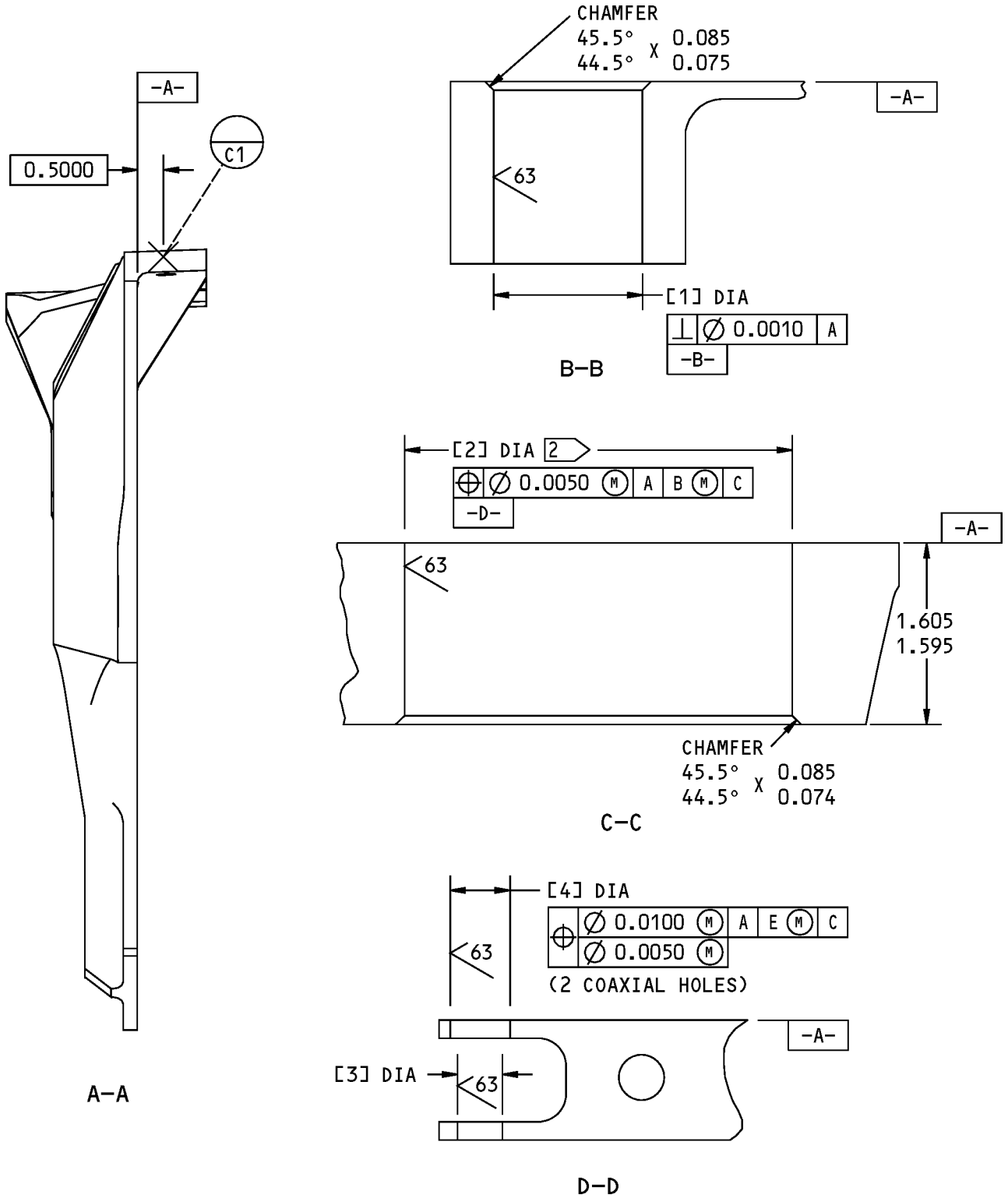
113A2862-7 SHOWN  
113A2862-8 OPPOSITE

113A2862-3,-4,-7,-8 Outboard Fitting Repair  
Figure 601 (Sheet 2 of 4)

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REPAIR 3-2  
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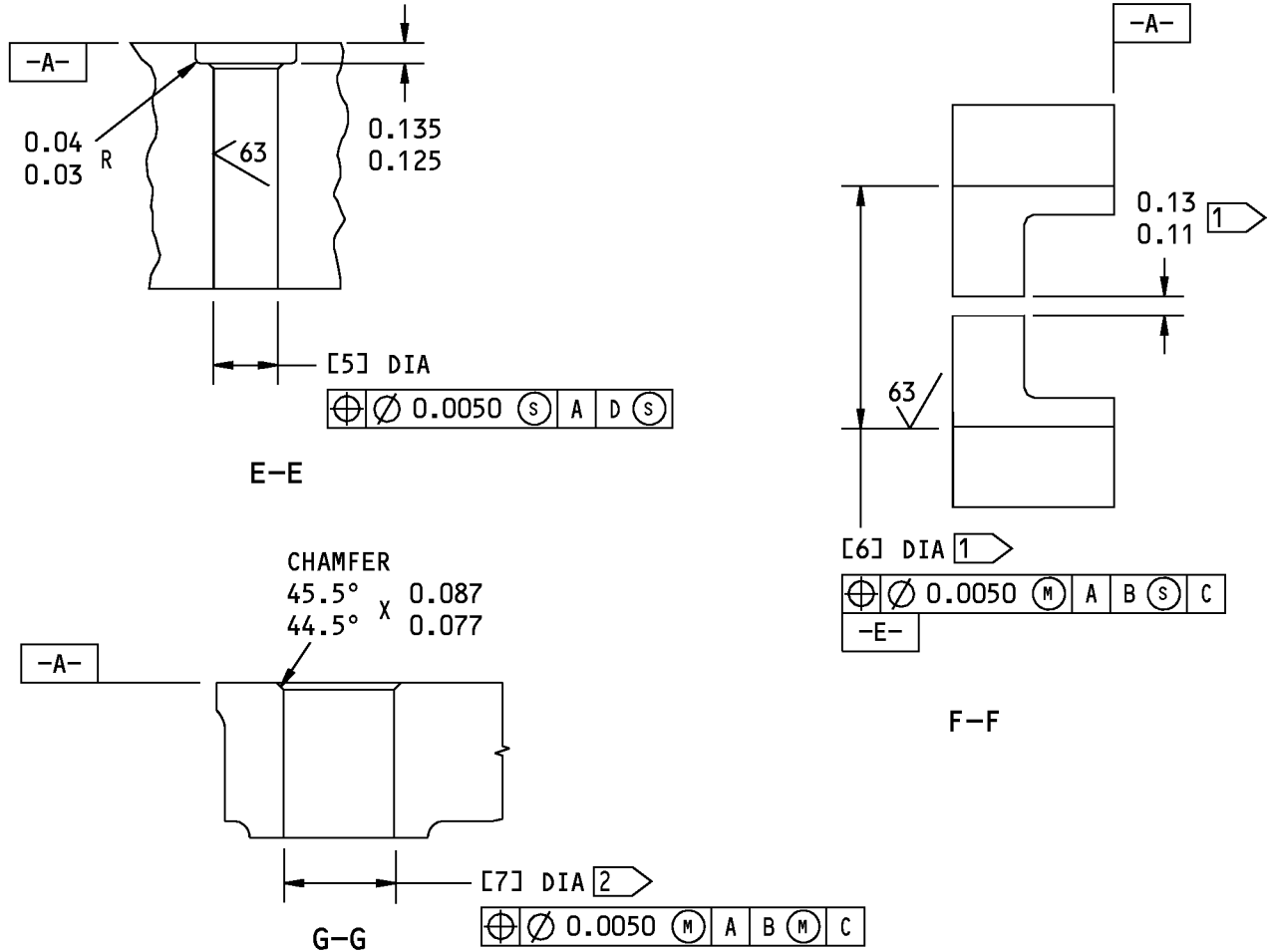


113A2862-3,-4,-7,-8 Outboard Fitting Repair  
Figure 601 (Sheet 3 of 4)

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REPAIR 3-2  
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REFERENCE NUMBER	[1]	[2]	[3]	[4]	[5]	[6]	[7]
DESIGN DIMENSION	1.3083 1.3075	3.4217 3.4200	0.3756 0.3750	0.5006 0.5000	0.4194 0.4188	1.5010 1.5000	1.3629 1.3621
REPAIR LIMIT 4	1.3683	3.4817	0.4356	0.5606	---	---	1.4229

- 1 DO NOT SHOT PEEN THE HOLE OR SLOT
- 2 REMOVE 0.001 MAXIMUM MATERIAL AFTER SHOT PEENING TO GET 63 MICROINCH FINISH
- 3 APPLY BMS 10-11 PRIMER TO THIS SURFACE
- 4 LIMIT FOR INSTALLATION OF OVERSIZE BUSHINGS

125 ✓ ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY

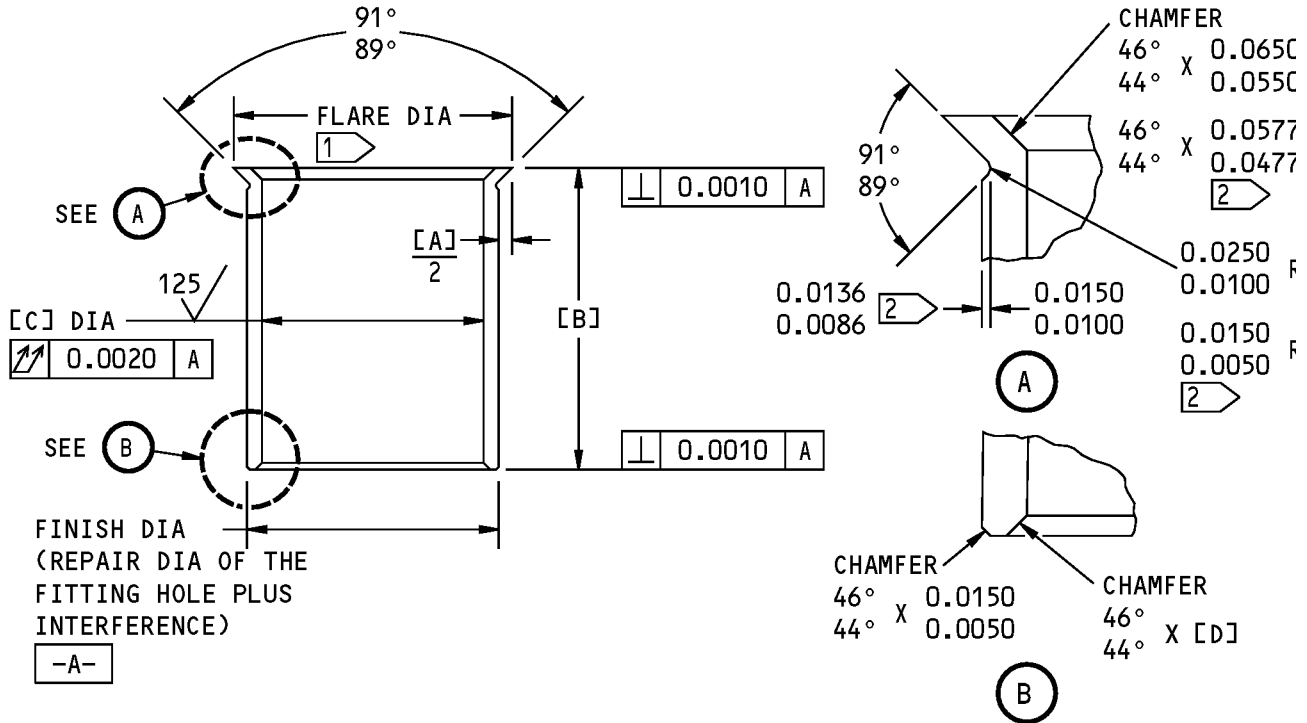
BREAK ALL SHARP EDGES

ALL DIMENSIONS ARE IN INCHES

113A2862-3,-4,-7,-8 Outboard Fitting Repair  
Figure 601 (Sheet 4 of 4)

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COMPONENT MAINTENANCE MANUAL



OVERSIZE REPLACEMENT FOR BUSHINGS AT LOCATIONS [1], [2], [8]

HOLE LOCATION (FIG. 601)	REPLACES BUSHING	[A]	[B]	[C]	[D]	INTERFERENCE
[1]	113A2653-21 (IPL FIG. 1; 480) (IPL FIG. 2; 430)	0.1473	1.5750	1.1750	0.0650	0.0027
		0.1280	1.5650	1.1560	0.0550	0.0012
[2]	113A2653-5 (IPL FIG. 1; 490)	0.1432	1.5750	3.2870	0.0350	0.0068
		0.1248	1.5650	3.2690	0.0250	0.0035
[8]	113A2653-23 (IPL FIG. 2; 435)	0.1546	1.8850	1.2199	0.0600	0.0028
		0.1354	1.8750	1.2183	0.0400	0.0012

63/ ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY

BREAK SHARP EDGES 0.005-0.015 R OR 0.01-0.02 R 2

MATERIAL: AL-Ni-BRONZE AMS 4640 OR AMS 4880 (113A2653-5 ONLY)

FINISH: NO FINISH

ALL DIMENSIONS ARE IN INCHES

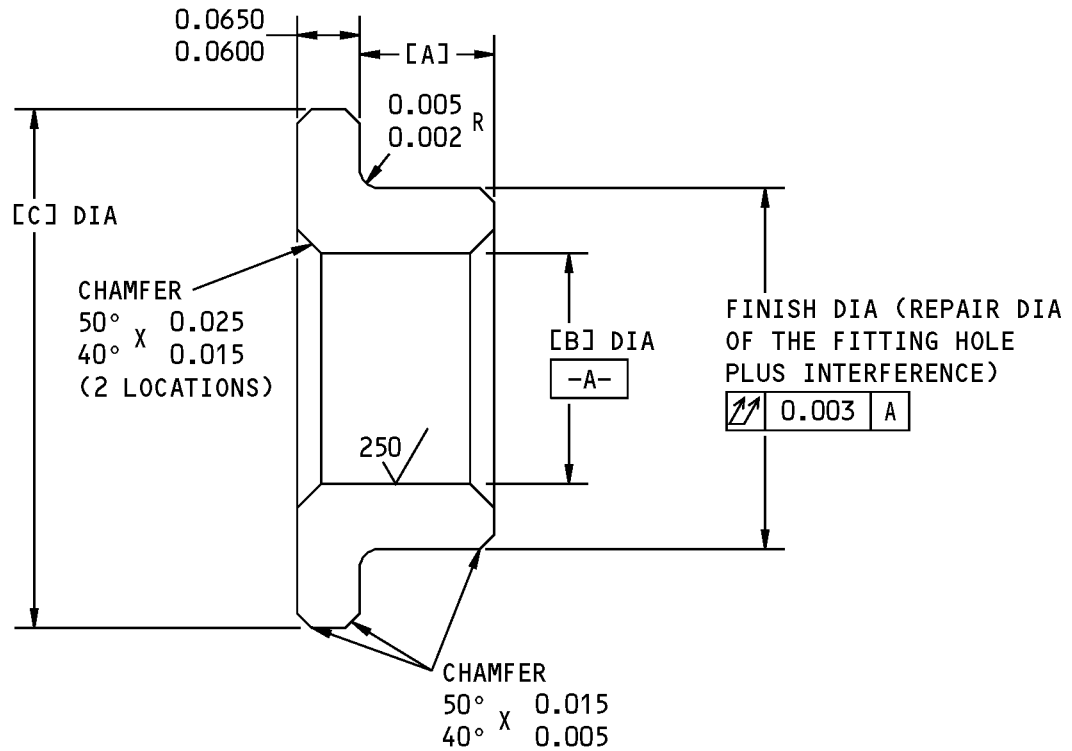
1 FLARE DIAMETER EQUALS THE FINISH DIAMETER -A- PLUS DIMENSION [A]

2 ON 113A2653-23 ONLY

Oversize Bushing Details  
Figure 602

**27-55-72**

COMPONENT MAINTENANCE MANUAL



OVERSIZE REPLACEMENT FOR BUSHINGS AT LOCATIONS [3], [4]

HOLE LOCATION (FIG. 601)	REPLACES BUSHING	[A]	[B]	[C]	INTERFERENCE	MATERIAL	FINISH
[3]	BACB28AP04-014	0.140	0.241	0.540	0.0015	1	3
	(IPL FIG. 1; 495) (IPL FIG. 2; 400)	0.135	0.234	0.530	0.0003		
[4]	BACB28AT6B014A	0.140	0.366	0.630	0.0016	2	4
	(IPL FIG. 1; 500) (IPL FIG. 2; 405)	0.135	0.359	0.620	0.0004		

1 15-5PH CRES (AMS 5659) OR  
17-4PH CRES (AMS 5643)  
180-200 KSI

2 AL-Ni-BRONZE (AMS 4640)

3 PASSIVATE (F-17.25)

4 NO FINISH

63/ ALL MACHINED SURFACES UNLESS SHOWN DIFFERENTLY

BREAK ALL SHARP EDGES

ALL DIMENSIONS ARE IN INCHES

Oversize Bushing Details  
Figure 603

**27-55-72**

REPAIR 3-2

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## COMPONENT MAINTENANCE MANUAL

### ROLLER CARTRIDGE ASSEMBLY - REPAIR 4-1

113A2650-1, -2

#### 1. General

- A. This procedure has the data to repair the roller cartridge assembly (145, 150).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for item numbers.

#### 2. Bushing Replacement

- A. Consumable Materials

**NOTE:** Equivalent substitutes may be used.

Reference	Description	Specification
D00015	Grease - Aircraft Bearing (Use BMS 3-24 until existing stocks are depleted, BMS 3-33 supersedes BMS 3-24)	BMS3-24 (Superseded by BMS 3-33)
D00633	Grease - Aircraft General Purpose	BMS3-33

- B. References

Reference	Title
SOPM 20-50-02	INSTALLATION OF SAFETYING DEVICES
SOPM 20-60-03	LUBRICANTS

- C. Procedure

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

- (1) Remove the cotter pin (155) from the pin assembly (180) and nut (160).
- (2) Remove the nut (160), washers (165, 175), and roller (170B).
- (3) Remove the pin assembly (180).
- (4) Remove the damaged or defective bushing (195, 200).
- (5) Apply grease, D00633 or grease, D00015 to the bore of the replacement bushing (195, 200) and the outside diameter of the pin assembly (180). Install the pin assembly in the bushing.
- (6) Install the replacement bushing (195, 200) with the retainer (205, 210) on the housing (215, 220). Align the index marks on the retainer and the bushing to 0.100 inch or less.
- (7) Install the washer (175) on the pin assembly (180). Engage the peg on the washer with the slot on the housing (215, 220).
- (8) Install the roller (170B) and the washer (165) on the pin assembly (180). Engage the tabs on the washer with the slots on the pin assembly.
- (9) Install the nut (160) on the pin assembly (180).
- (10) Tighten the nut (160) to 160-975 pound-inches.
- (11) Install the cotter pin (155) on the nut (160) and the pin assembly (180). The ends of the cotter pin must not be above the end of the pin assembly (180). Refer to SOPM 20-50-02.

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REPAIR 4-1

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## COMPONENT MAINTENANCE MANUAL

### ROLLER CARTRIDGE ASSEMBLY - REPAIR 4-2

113A2650-3, -4

#### 1. General

- A. This procedure has the data to repair the roller cartridge assembly (20, 25).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for item numbers.

#### 2. Bushing Replacement

- A. Consumable Materials

**NOTE:** Equivalent substitutes may be used.

Reference	Description	Specification
D00015	Grease - Aircraft Bearing (Use BMS 3-24 until existing stocks are depleted, BMS 3-33 supersedes BMS 3-24)	BMS3-24 (Superseded by BMS 3-33)
D00633	Grease - Aircraft General Purpose	BMS3-33

- B. References

Reference	Title
SOPM 20-50-02	INSTALLATION OF SAFETYING DEVICES
SOPM 20-60-03	LUBRICANTS

- C. Procedure

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

- (1) Remove the bolts (30) and washers (35), then remove the rub block assembly (50, 55) from the retainer (125, 130).
- (2) Remove the cotter pin (75) from the pin assembly (100) and nut (80).
- (3) Remove the nut (80), washers (85, 95), and roller (90B).
- (4) Remove the pin assembly (100).
- (5) Remove the damaged or defective bushing (115, 120).
- (6) Apply grease, D00633 or grease, D00015 to the bore of the replacement bushing (115, 120) and the outside diameter of the pin assembly (100). Install the pin assembly in the bushing.
- (7) Install the replacement bushing (115, 120) with the retainer (125, 130) in the housing (135, 140). Align the index marks on the retainer and the bushing to 0.100 inch or less.
- (8) Install the washer (95) on the pin assembly (100). Engage the peg on the washer with the slot on the housing (135, 140).
- (9) Install the roller (90B) and the washer (85) on the pin assembly (100). Engage the tabs on the washer with the slots on the pin assembly.
- (10) Install the nut (80) on the pin assembly (100).
- (11) Tighten the nut (80) to 160-975 pound-inches.

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- (12) Install the cotter pin (75) on the nut (80) and the pin assembly (100). The ends of the cotter pin must not be above the end of the pin assembly. Refer to SOPM 20-50-02.
- (13) Install the rub block assembly (50, 55) on the retainer (125, 130) with the bolts (30) and washers (35).

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REPAIR 4-2

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## COMPONENT MAINTENANCE MANUAL

### ASSEMBLY

#### 1. General

- A. This procedure has the data to assemble the inboard flap outboard carriage assembly (IPL Figure 1; 1A, 5), (IPL Figure 2; 1A, 5).
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 or IPL Figure 2 for the item numbers.

#### 2. Assembly

##### A. Consumable Materials

**NOTE:** Equivalent substitutes may be used.

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS 5-95
D00015	Grease - Aircraft Bearing (Use BMS 3-24 until existing stocks are depleted, BMS 3-33 supersedes BMS 3-24)	BMS3-24 (Superseded by BMS 3-33)
D00633	Grease - Aircraft General Purpose	BMS3-33
G01048	Lockwire - Corrosion Resistant Steel (0.032 In. Dia.)	NASM20995~ C32

##### B. References

Reference	Title
SOPM 20-41-01	DECODING TABLE FOR BOEING FINISH CODES
SOPM 20-50-01	BOLT AND NUT INSTALLATION
SOPM 20-50-02	INSTALLATION OF SAFETYING DEVICES
SOPM 20-60-03	LUBRICANTS
SOPM 20-60-04	MISCELLANEOUS MATERIALS

##### C. Procedure

**NOTE:** For the decoding table for Boeing finish codes, refer to SOPM 20-41-01. For lubricants, refer to SOPM 20-60-03. For miscellaneous materials, refer to SOPM 20-60-04.

- (1) Use standard industry procedures and these steps to assemble this component.
- (2) Assemble the assemblies 113A2850-1, -2 (IPL Figure 1).
  - (a) If necessary, install the rub plate assemblies (280 thru 295) on the carriage fittings (460, 465, 470, 475) with the fasteners (265 thru 275). Apply a fay surface seal with sealant, A00247. Install the fasteners with sealant, A00247 (F-19.48).
- (3) Install the rollers (240A) on the fitting assemblies (460, 465, 470, 475).
  - (a) Install the rollers (240A) on the carriage fitting assemblies (460, 465, 470, 475) with the pin assemblies (250), washers (235, 245), and nuts (230).
  - (b) Tighten the nuts (230) to 160-975 pound-inches (SOPM 20-50-01).

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## COMPONENT MAINTENANCE MANUAL

- (c) Install the cotter pins (225) on the pin assemblies (250) (SOPM 20-50-02). The ends of the cotter pins must not be above the ends of the pin assemblies.
- (4) Install the roller cartridge assemblies (20, 25, 145, 150) in the fitting assemblies (460, 465, 470, 475).
  - (a) Install the roller cartridge assemblies (20, 25, 145, 150) with the bolts (10) and washers (15).
  - (b) Tighten the bolts (10) to 95-110 pound-inches (SOPM 20-50-01).
  - (c) Install lockwire, G01048 (SOPM 20-50-02) from the bolts (10) to the retainer (125, 130) on the outboard fitting assembly (460, 465).
  - (d) Install lockwire, G01048 (SOPM 20-50-02) on the bolts (10) on the inboard fitting assembly (470, 475). Install the lockwire, G01048 so it goes around (not over) the hex head of the pin assembly (180).
  - (e) Install the rub block assembly (355, 360).
    - 1) Install the clip (450) on the inboard carriage fitting assembly (470, 475) with the fasteners (415, 420, 430 thru 445). Apply a fay surface seal with sealant, A00247. Install the fasteners with sealant, A00247 (F-19.48).
    - 2) Install the fitting assembly (380, 385) and the rub block assembly (355, 360) with the fasteners (330 thru 350). Apply a fay surface seal with sealant, A00247. Install the fasteners with sealant, A00247 (F-19.48).
- (5) Assemble the assemblies 113A2850-3, -4, -5, -6, -201, -202 (IPL Figure 2)
  - (a) If necessary, install the rub plate assemblies (170 thru 185) on the carriage fittings (375, 380, 420, 425) with the fasteners (155 thru 165). Apply a fay surface seal with sealant, A00247. Install the fasteners with sealant, A00247 (F-19.48).
  - (b) Install the rollers (105, 110) on the carriage fitting assemblies (375, 380, 420, 425).
    - 1) Apply grease, D00633 or grease, D00015 to the outside diameter of the pin assemblies (75, 90) and the bores of the bushings in the carriage fittings.
    - 2) Install the rollers (105, 110) on the carriage fitting assemblies with the pin assemblies (75, 90), washers (60, 65, 70), and nuts (55). Make sure the pegs on the washers (70) engage the holes in the carriage fittings. Make sure the tabs on the washers (60) engage the slots on the pin assemblies.
    - 3) Tighten the nuts (55) to 160-975 pound inches (SOPM 20-50-01).
    - 4) Install the cotter pins (50) on the pin assemblies (75, 90) (SOPM 20-50-02). The ends of the cotter pins must not be above the ends of the pin assemblies.
  - (c) Install the rub block assembly (320, 325).
    - 1) Install the clip (295) on the inboard carriage fitting assembly (420, 425) with the fasteners (245 thru 265). Apply a fay surface seal with sealant, A00247. Install the fasteners with sealant, A00247 (F-19.48).
    - 2) Install the fitting assembly (345, 350) and the rub block assembly (320, 325) with the fasteners (275 thru 290). Apply a fay surface seal with sealant, A00247. Install the fasteners with sealant, A00247 (F-19.48).

# 27-55-72

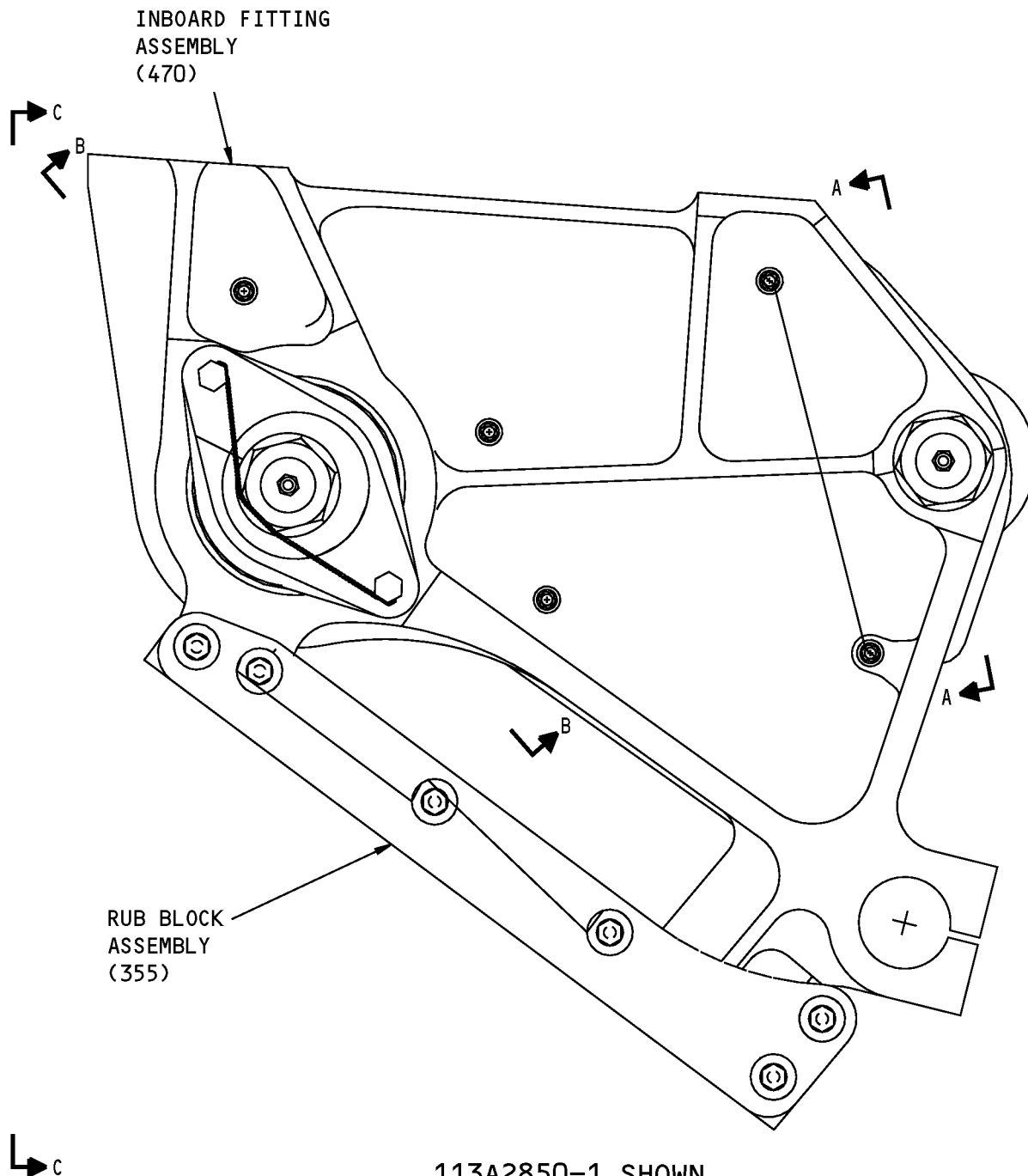
ASSEMBLY

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COMPONENT MAINTENANCE MANUAL

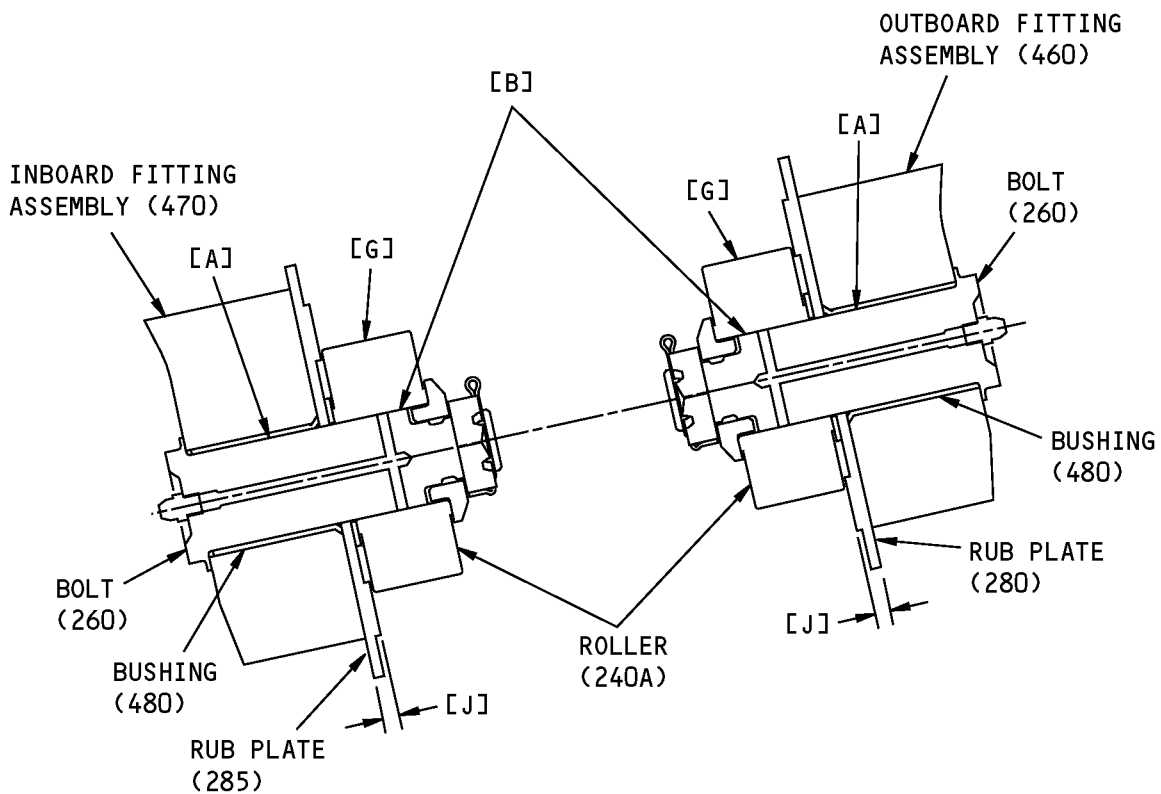
FITS AND CLEARANCES



113A2850-1 SHOWN  
113A2850-2 OPPOSITE

Fits and Clearances  
Figure 801 (Sheet 1 of 5)

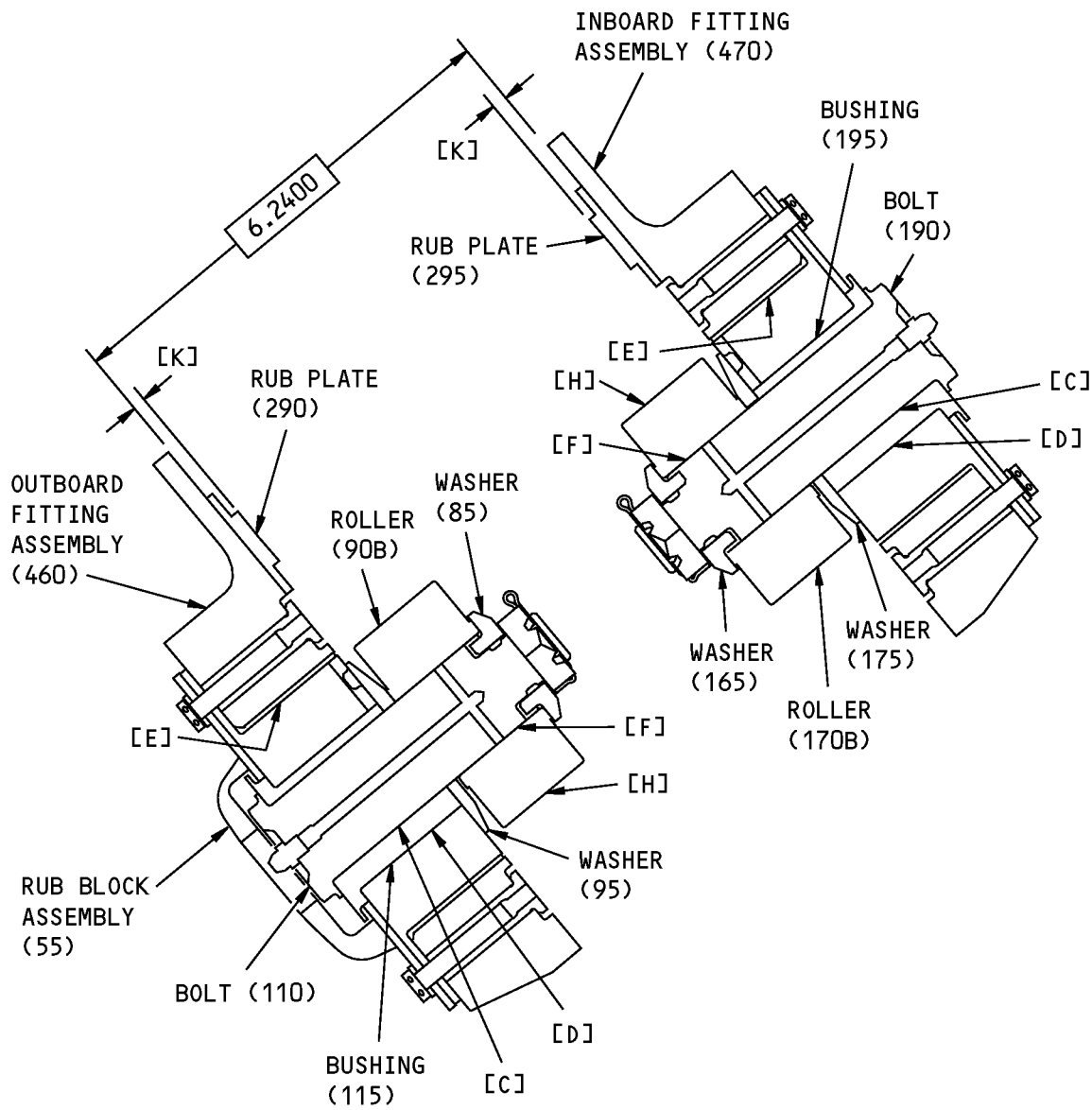
COMPONENT MAINTENANCE MANUAL



A-A

Fits and Clearances  
Figure 801 (Sheet 2 of 5)

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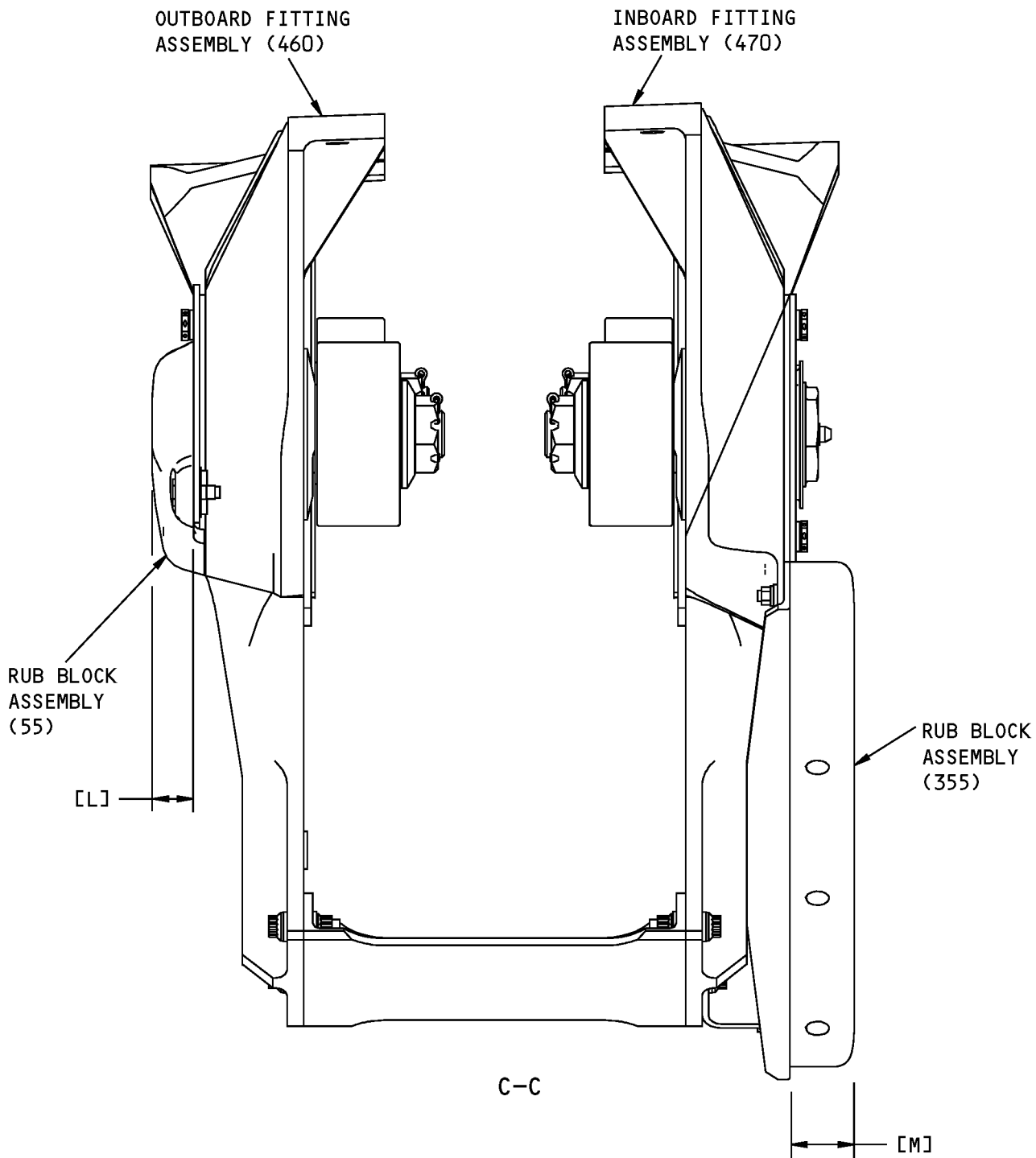


B-B

Fits and Clearances  
Figure 801 (Sheet 3 of 5)



### COMPONENT MAINTENANCE MANUAL



ITEM NUMBERS REFER TO IPL FIG. 1

Fits and Clearances  
Figure 801 (Sheet 4 of 5)

## COMPONENT MAINTENANCE MANUAL

REF LETTER	REF IPL	DESIGN DIMENSION*				SERVICE WEAR LIMIT*		
	FIG. 2, MATING ITEM NO.	DIMENSION		ASSEMBLY CLEARANCE		DIMENSION		MAXIMUM CLEARANCE
		MIN	MAX	MIN	MAX	MIN	MAX	
[A]	ID 480 OD 260	1.1870 1.1855	1.1878 1.1865	0.0005	0.0023	1.1828	1.1915	0.005
[B]	ID 240 OD 260	1.1868 1.1855	1.1875 1.1865	0.0003	0.0020	1.1825	1.1915	0.005
[C]	ID 115,195 OD 110,190	1.2500 1.2480	1.2514 1.2490	0.0010	0.0040	1.2470	1.2540	0.005
[D]	ID 135,215 OD 115,195	1.7010 1.6980	1.2500 1.2490	0.0015	0.0050	1.6980	1.7045	0.005
[E]	ID 490 OD 135,215	3.3000 3.2980	3.3020 3.2990	0.0010	0.0040	3.3970	3.3040	0.005
[F]	ID 90B,170B OD 110,190	1.2493 1.2480	1.2500 1.2490	0.0003	0.0020	1.2450	1.2540	0.005
[G]	OD 240A	2.999	3.001			2.997 1		
[H]	OD 90B,170B	2.999	3.001			2.997 1		
[J]	280,285 2	0.1850	0.1950			0.1350 1		
[K]	290,295 2	0.1850	0.1950			0.1350 1		
[L]	50,55 2	0.6636	0.6936			0.5036 1		
[M]	355,360 2	1.0350	1.0650			0.9350 1		

\* ALL DIMENSIONS ARE IN INCHES

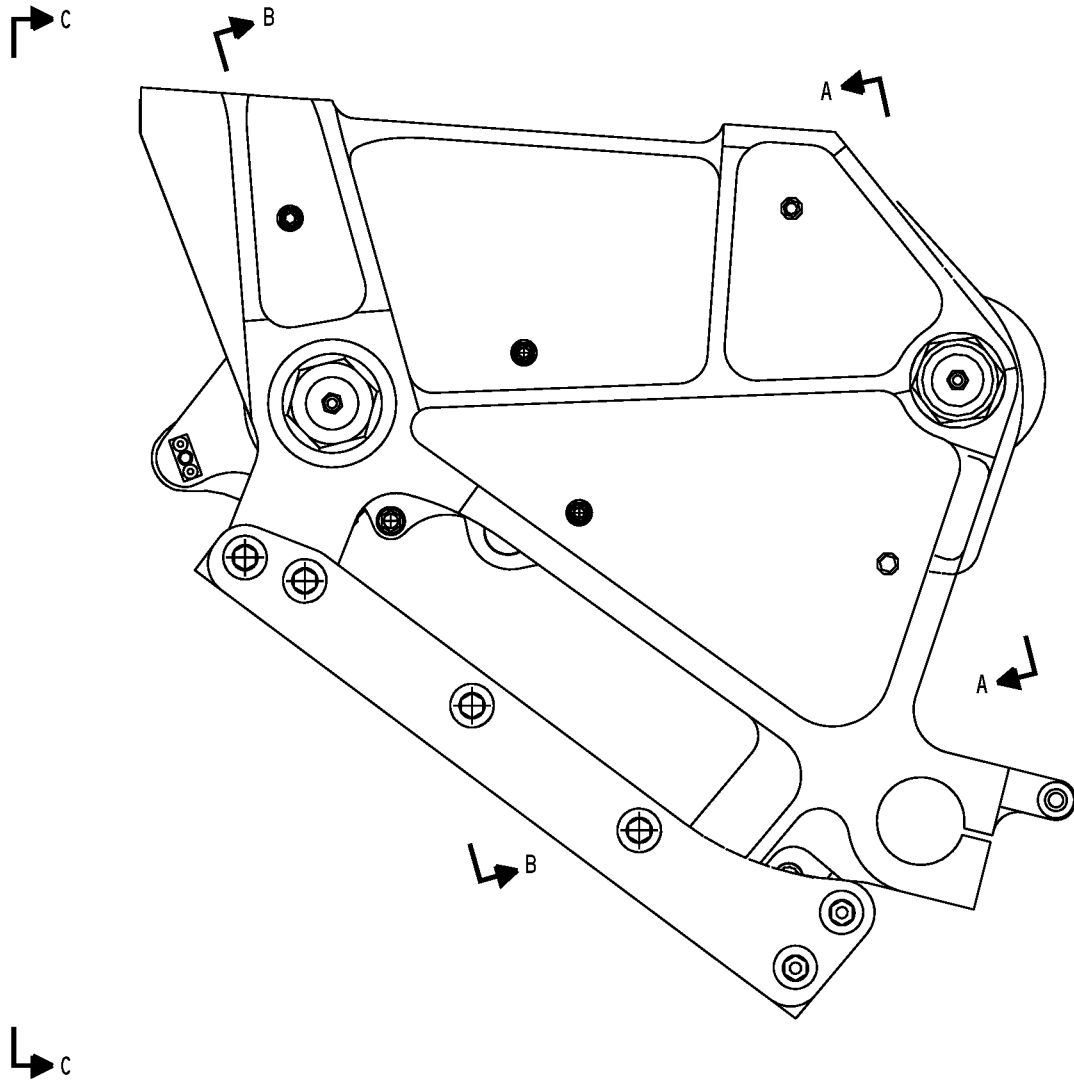
1 REPLACE THE PART WHEN IT IS AT THIS DIMENSION

2 THICKNESS MEASURED PERPENDICULAR TO THE MOUNTING SURFACE. MEASURE THE WEAR AT THE MINIMUM HEIGHT OF THE CONTACT AREA

Fits and Clearances  
Figure 801 (Sheet 5 of 5)

**27-55-72**  
FITS AND CLEARANCES  
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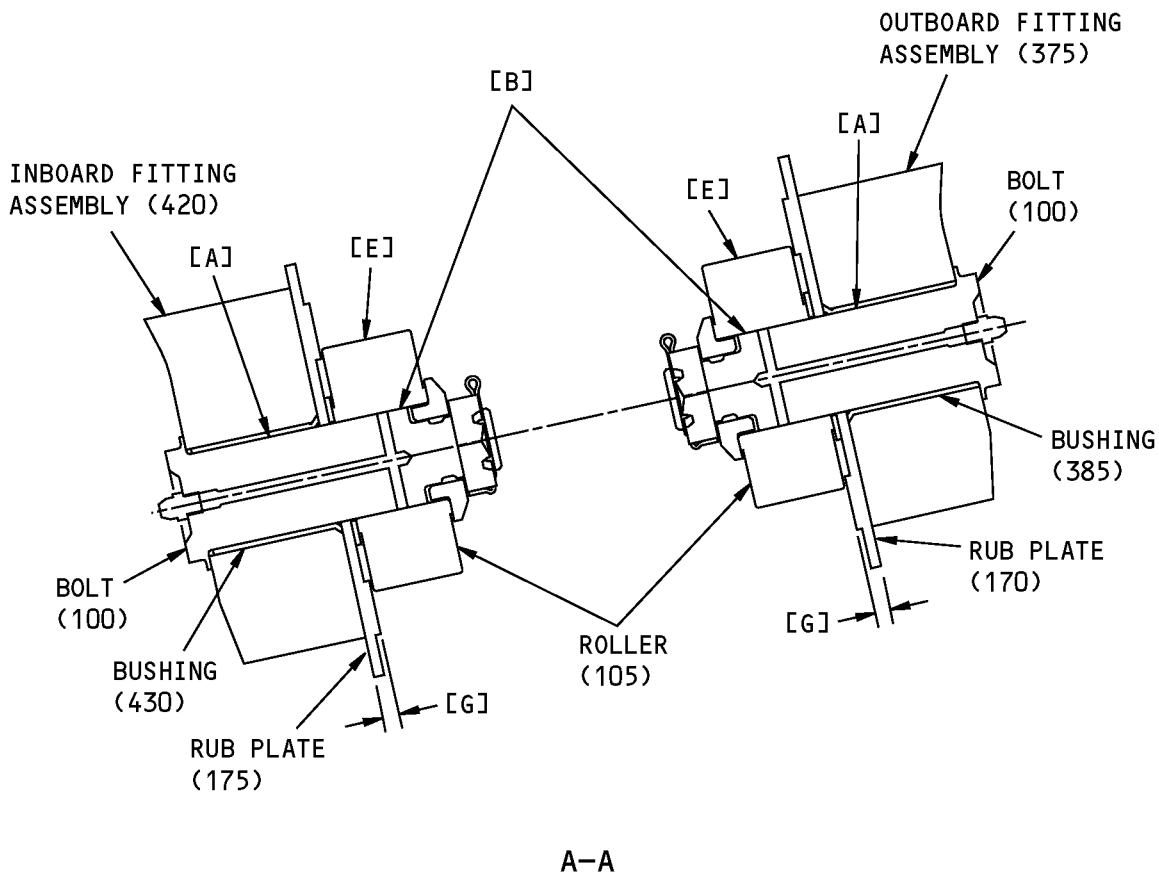
COMPONENT MAINTENANCE MANUAL



113A2850-3 SHOWN  
113A2850-4 OPPOSITE

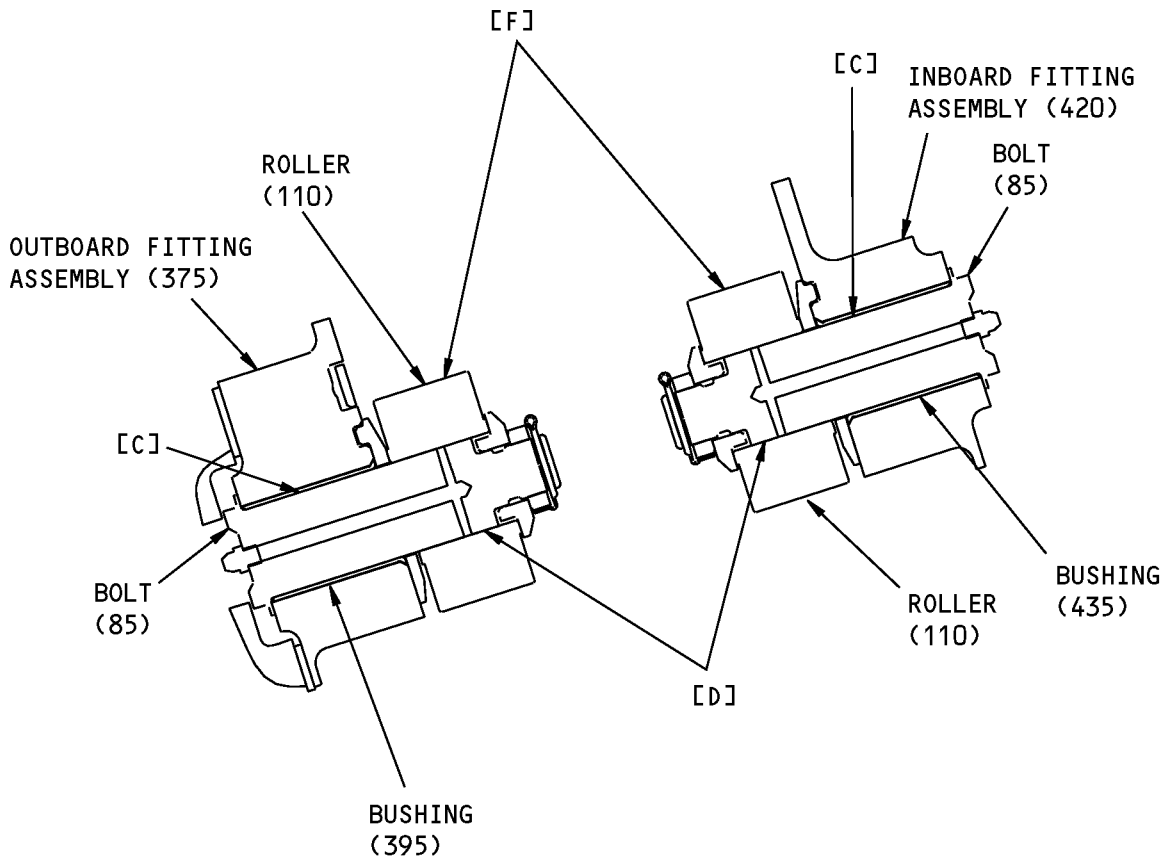
Fits and Clearances  
Figure 802 (Sheet 1 of 5)

COMPONENT MAINTENANCE MANUAL



Fits and Clearances  
Figure 802 (Sheet 2 of 5)

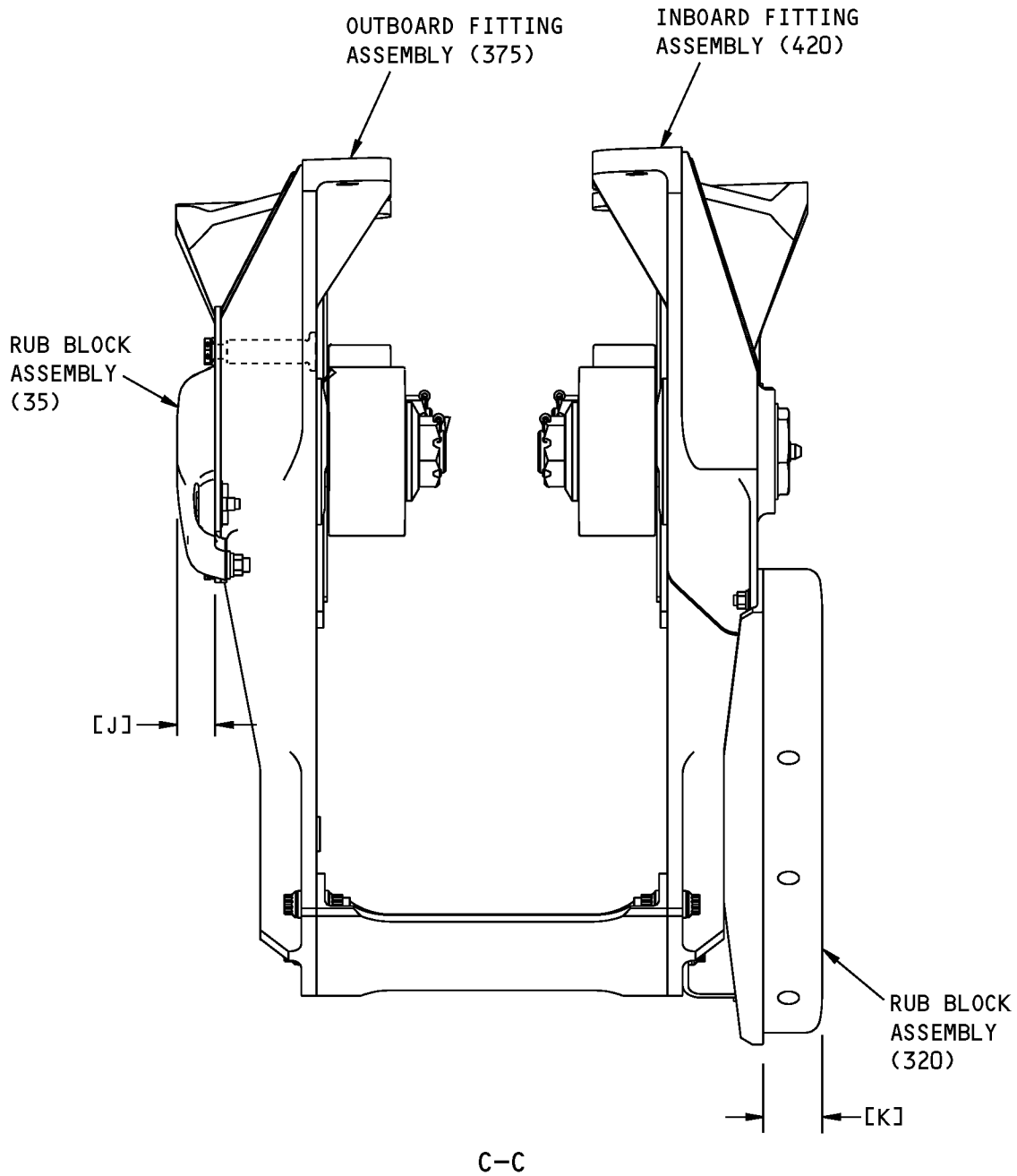
### COMPONENT MAINTENANCE MANUAL



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Fits and Clearances  
Figure 802 (Sheet 3 of 5)

COMPONENT MAINTENANCE MANUAL



Fits and Clearances  
Figure 802 (Sheet 4 of 5)

## COMPONENT MAINTENANCE MANUAL

REF LETTER	REF IPL	DESIGN DIMENSION*				SERVICE WEAR LIMIT*		
	FIG. 2, MATING ITEM NO.	DIMENSION		ASSEMBLY CLEARANCE		DIMENSION		MAXIMUM CLEARANCE
		MIN	MAX	MIN	MAX	MIN	MAX	
[A]	ID 385,430 OD 100	1.1870 1.1855	1.1878 1.1865	0.0005	0.0023	1.1828	1.1915	0.005
[B]	ID 105 OD 100	1.1868 1.1855	1.1875 1.1865	0.0003	0.0020	1.1825	1.1915	0.005
[C]	ID 395,435 OD 85	1.2506 1.2480	1.2514 1.2490	0.0016	0.0034	1.2470	1.2540	0.005
[D]	ID 110 OD 85	1.2493 1.2480	1.2500 1.2490	0.0003	0.0020	1.2450	1.2540	0.005
[E]	OD 105	2.999	3.001			2.997 1		
[F]	OD 110	2.999	3.001			2.997 1		
[G]	170,175 2	0.1850	0.1950			0.1350 1		
[H]	180,185 2	0.1850	0.1950			0.1350 1		
[J]	35,37 2	0.6636	0.6936			0.5036 1		
[K]	320,325 2	1.0350	1.0650			0.9350 1		

\* ALL DIMENSIONS ARE IN INCHES

1 REPLACE THE PART WHEN IT IS AT THIS DIMENSION

2 THICKNESS MEASURED PERPENDICULAR TO THE MOUNTING SURFACE. MEASURE THE WEAR AT THE MINIMUM HEIGHT OF THE CONTACT AREA

Fits and Clearances  
Figure 802 (Sheet 5 of 5)

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## COMPONENT MAINTENANCE MANUAL

REF IPL		NAME	TORQUE*	
FIG. NO.	ITEM NO.		POUND-INCHES	POUND-FEET
1	10	Bolt	95-110	
1	80	Nut	160-975	
1	160	Nut	160-975	
1	230	Nut	160-975	
2	55	Nut	160-975	

\* REFER TO SOPM 20-50-01 FOR TORQUE VALUES OF STANDARD FASTENERS.

Torque Table  
Figure 803

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**COMPONENT MAINTENANCE MANUAL**

**SPECIAL TOOLS, FIXTURES, AND EQUIPMENT**

**(NOT APPLICABLE)**

**27-55-72**

SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

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## COMPONENT MAINTENANCE MANUAL

### 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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## COMPONENT MAINTENANCE MANUAL

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
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
60380	TORRINGTON CO BEARINGS DIV SUBSIDIARY OF INGERSOLL-RAND CORP 59 FIELD STREET PO BOX 1008 TORRINGTON, CONNECTICUT 06790-1008 FORMERLY TORRINGTON BEARING COMPANY
62554	SIMMONDS MECAERO FASTENERS INC 1734 SEQUOIA AVENUE ORANGE, CALIFORNIA 92668
92563	MCGILL MFG CO INC BEARINGS DIV 909 LAFAYETTE STREET VALPARAISO, INDIANA 46383-4210

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## COMPONENT MAINTENANCE MANUAL

### NUMERICAL INDEX

PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
113A2650-1		1	150	1
113A2650-2		1	145	1
113A2650-3		1	20	1
113A2650-4		1	25	1
113A2651-1		1	135	1
		1	220	1
113A2651-2		1	140	1
		1	215	1
113A2652-1		1	100	1
		1	180	1
		2	75	2
113A2652-11		1	260	1
		2	100	1
113A2652-3		1	250	2
		2	90	2
113A2652-9		1	110	1
		1	190	1
		2	85	1
113A2653-1		1	115	1
		1	200	1
113A2653-2		1	120	1
		1	195	1
113A2653-21		1	480	1
		2	385	1
		2	430	1
113A2653-23		2	395	1
		2	435	1
113A2653-3		1	485	2
		2	20	1
		2	390	2
113A2653-5		1	490	1
113A2655-1		1	95	1
		1	175	1
113A2655-3		1	85	1

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
		1	165	1
		1	235	2
		2	60	4
113A2655-7		1	245	2
		2	65	2
113A2655-8		2	70	2
113A2656-1		1	210	1
113A2656-2		1	205	1
113A2656-3		1	125	1
113A2656-4		1	130	1
113A2657-17		1	310	1
		2	200	1
113A2657-18		1	315	1
		2	205	1
113A2657-19		1	300	1
		2	190	1
113A2657-21		1	320	1
		2	210	1
113A2657-22		1	325	1
		2	215	1
113A2657-23		1	305	1
		2	195	1
113A2657-5		1	280	1
		2	170	1
113A2657-6		1	285	1
		2	175	1
113A2657-7		1	290	1
		2	180	1
113A2657-8		1	295	1
		2	185	1
113A2658-1		2	135	1
113A2658-2		2	137	1
113A2658-3		2	150	1
113A2850-1		1	1A	RF
113A2850-2		1	5	RF

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## COMPONENT MAINTENANCE MANUAL

PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
113A2850-201		1	1D	RF
		2	1C	RF
113A2850-202		1	5C	RF
		2	5B	RF
113A2850-3		1	1B	RF
		2	1A	RF
113A2850-4		1	5A	RF
		2	5	RF
113A2850-5		1	1C	RF
		2	1B	RF
113A2850-6		1	5B	RF
		2	5A	RF
113A2861-1		1	470	1
113A2861-2		1	475	1
113A2861-3		1	515	1
113A2861-4		1	520	1
113A2861-5		2	420	1
113A2861-6		2	425	1
113A2861-7		2	440	1
113A2861-8		2	445	1
113A2862-1		1	460	1
113A2862-10		2	380A	1
113A2862-2		1	465	1
113A2862-3		1	505	1
113A2862-4		1	510	1
113A2862-5		2	375	1
113A2862-6		2	380	1
113A2862-7		2	410	1
113A2862-8		2	415	1
113A2862-9		2	375A	1
113A2871-1		1	455	1
		2	270	1
113A2871-201		2	270A	1
113A2872-1		1	380	1
		2	345	1

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
113A2872-2		1	385	1
		2	350	1
113A2872-3		1	400	1
		2	365	1
113A2872-4		1	405	1
		2	370	1
113A2873-1		1	450	1
		2	295	1
113A2881-1		1	50	1
		2	35	1
113A2881-10		1	360	1
		2	325	1
113A2881-11		1	370	1
		2	335	1
113A2881-12		1	375	1
		2	340	1
113A2881-2		1	55	1
		2	37	1
113A2881-5		1	65	1
		2	45	1
113A2881-6		1	70	1
		2	47	1
113A2881-9		1	355	1
		2	320	1
60B00178-670		1	240A	2
60B00178-671		1	90B	1
		1	170B	1
AC67861		1	240A	2
AC68849		1	240A	2
AC68849T8		2	105	2
AC68850		1	90B	1
		1	170B	1
AC68850T8		2	110	2
BACB10HH19A		2	105	2
BACB10HH20A		2	110	2

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## COMPONENT MAINTENANCE MANUAL

PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
BACB28AP04-014		1	495	1
		2	400	1
BACB28AT06B014A		1	500	1
		2	405	1
BACB28X3N025		1	365	6
		2	330	6
BACB28X3P009		1	60	2
		2	40	2
BACB30MR4A11		2	220A	3
BACB30MR4A13		2	250A	1
BACB30MR4A8		2	245A	1
BACB30MR4K10		1	420	1
		2	250	1
BACB30MR4K11		2	220B	3
BACB30MR4K13		2	250B	1
BACB30MR4K7		1	415	1
		2	245	1
BACB30MR4K8		1	410	3
		2	220	3
		2	245B	1
BACB30NM3K5		1	30	2
		2	25	2
BACB30NM3K9		1	330	6
		2	275	2
		2	300	4
BACB30NM4HK22		2	10A	1
BACB30NM4HK23		1	10	4
		2	10	1
BACB30NM4K4		2	115	1
BACB30XD3K5		1	265	10
		2	155	10
BACN10JD112ASU		1	80	1
		1	160	1
		1	230	2
		2	55	4

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
BACN10YF31CM		1	45	2
		2	145	2
BACN10YF32CD		1	395	2
		2	360	2
BACN10YR3CM		1	275	10
		1	350	4
		2	165	10
		2	290	2
		2	315	2
BACN10YR4CM		2	130	1
BACN11Z4CK		2	240	3
		2	265	2
BACP18BC03A11P		1	75	1
		1	155	1
		1	225	2
		2	50	4
BACR15BA3AD2C		1	390	4
		2	355	4
BACR15GE3C4		1	40	4
		2	140	4
BACW10BP3ACU		1	35	2
		1	335	6
		2	30	2
		2	280	2
		2	305	4
BACW10BP3APU		1	340	2
		2	310	2
BACW10BP3DP		1	345	2
		2	285	2
BACW10BP4ACU		1	15	4
		1	425	3
		2	15	1
		2	120	1
BACW10BP4APU		2	225	3
		2	125A	1

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PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
BACW10BP4CD		1	430	2
		2	255	2
BACW10BP4DP		2	125	1
H52732-3CM		1	275	10
		1	350	4
		2	165	10
		2	290	2
		2	315	2
H52732-4CM		2	130	1
MF51594-3-2BAC		1	395	2
		2	360	2
MS15004-1		1	105	1
		1	185	1
		1	255	1
		2	80	1
		2	95A	1
		1	270	10
NAS1149E0363R		2	160	10
		1	435	4
NAS1149E0463P		2	230	3
		2	260	2
		1	440	1
NAS1149E0463R		1	445	5
NAS1805-4		1	275	10
		1	350	4
		2	165	10
		2	290	2
		2	315	2
PLH53CM		2	130	1
PLH54CM		1	240A	2
		1	90B	1
		1	170B	1
		1	170B	1

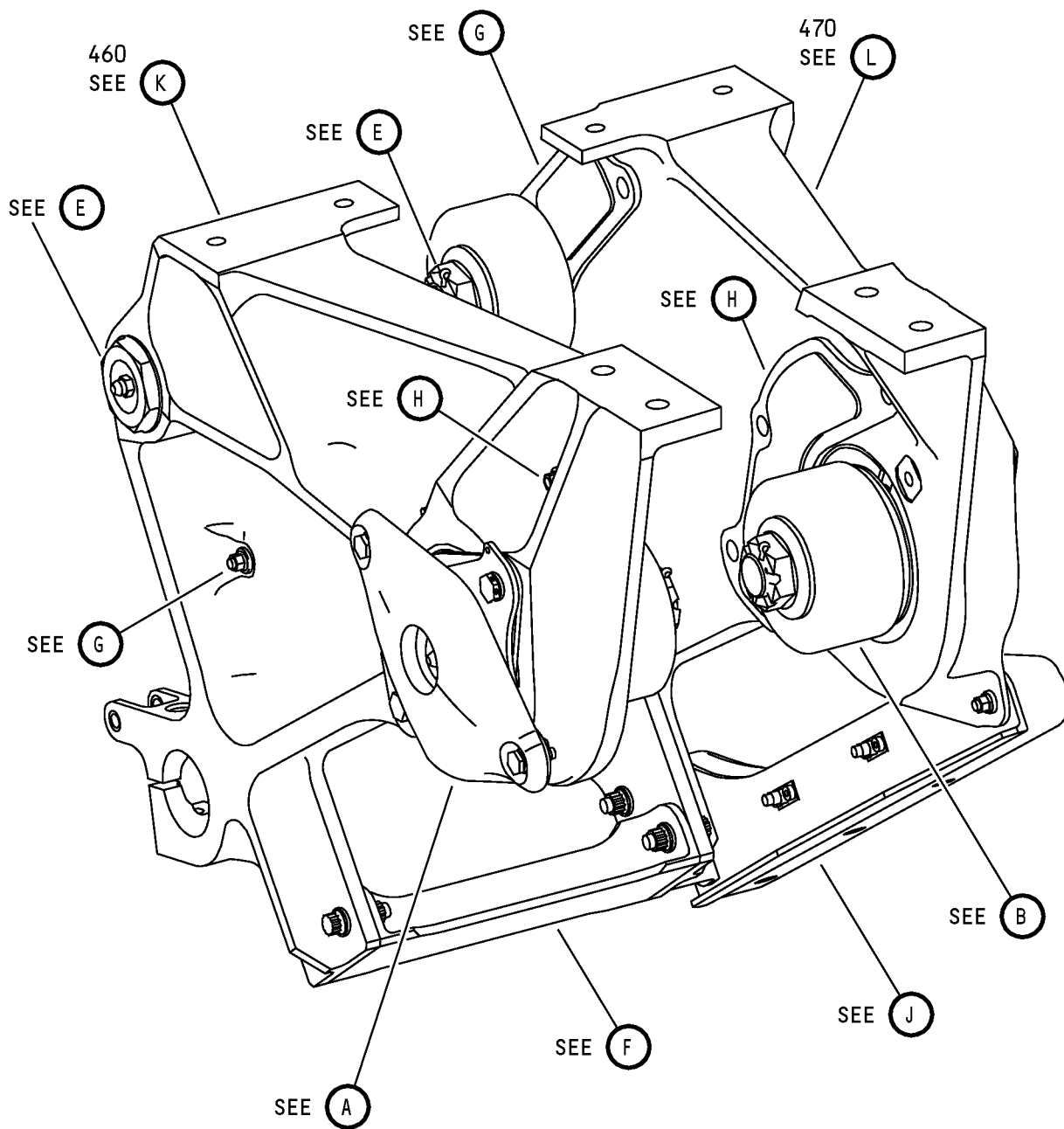
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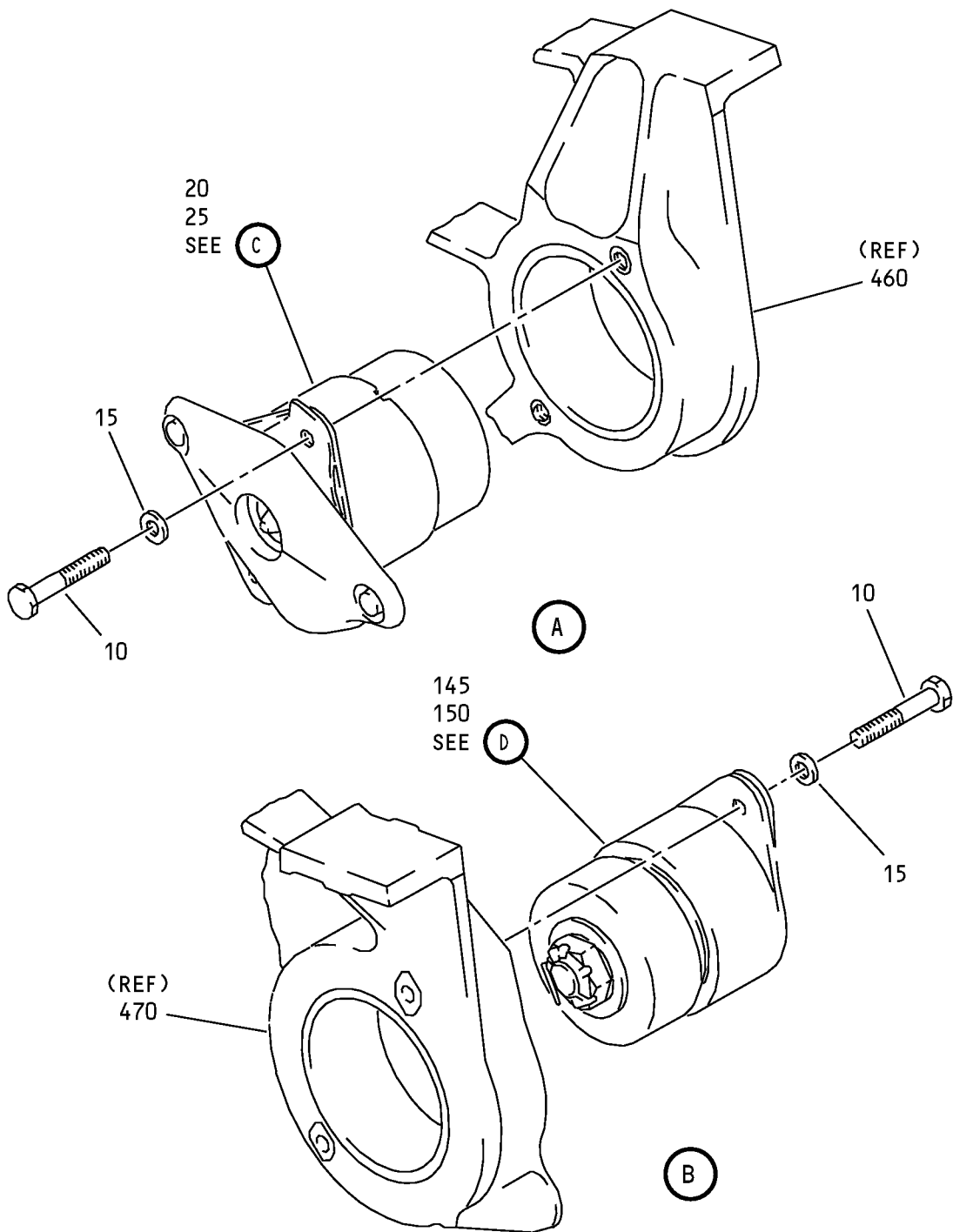
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Inboard Flap Outboard Carriage Assembly  
IPL Figure 1 (Sheet 1 of 9)

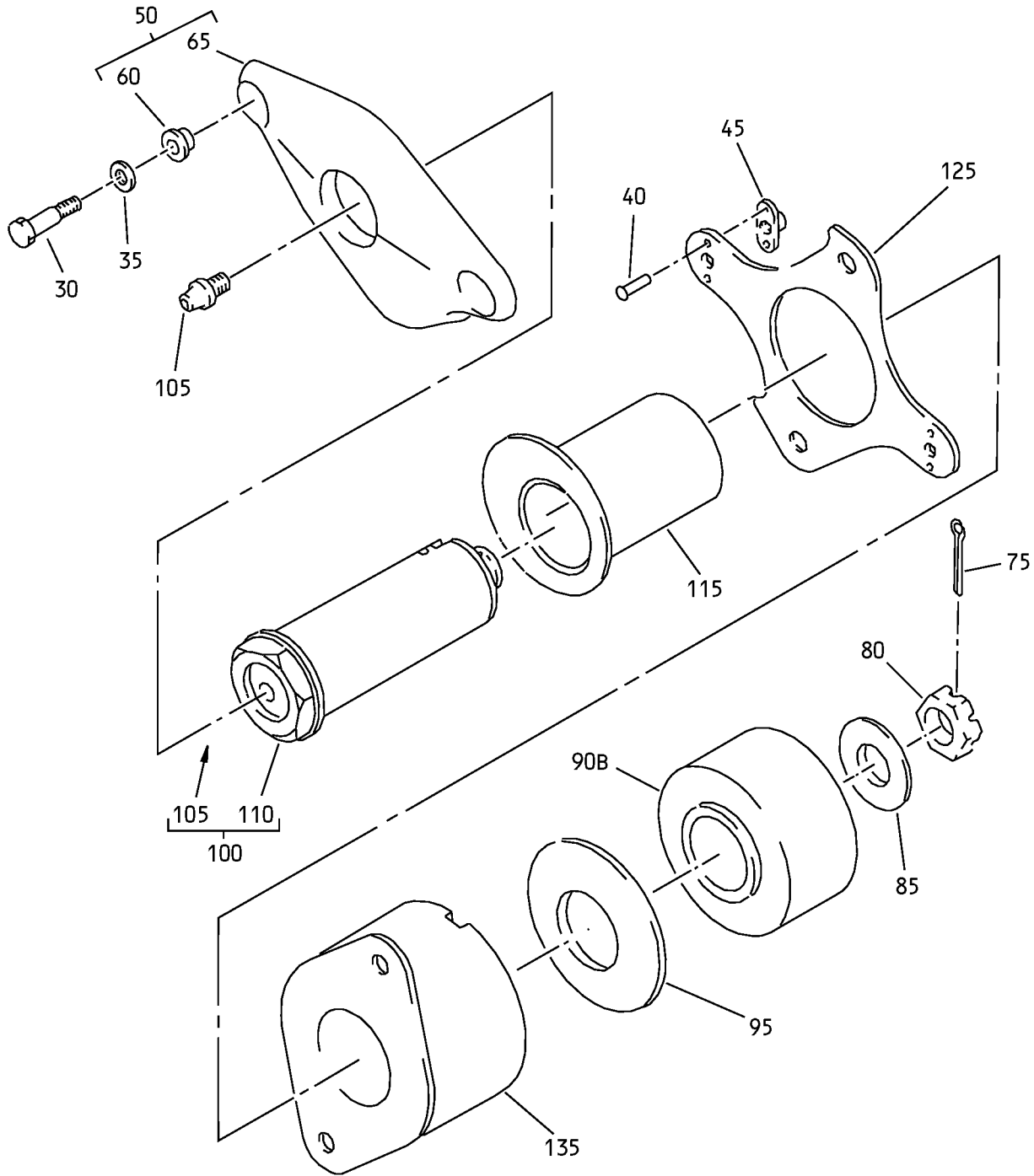
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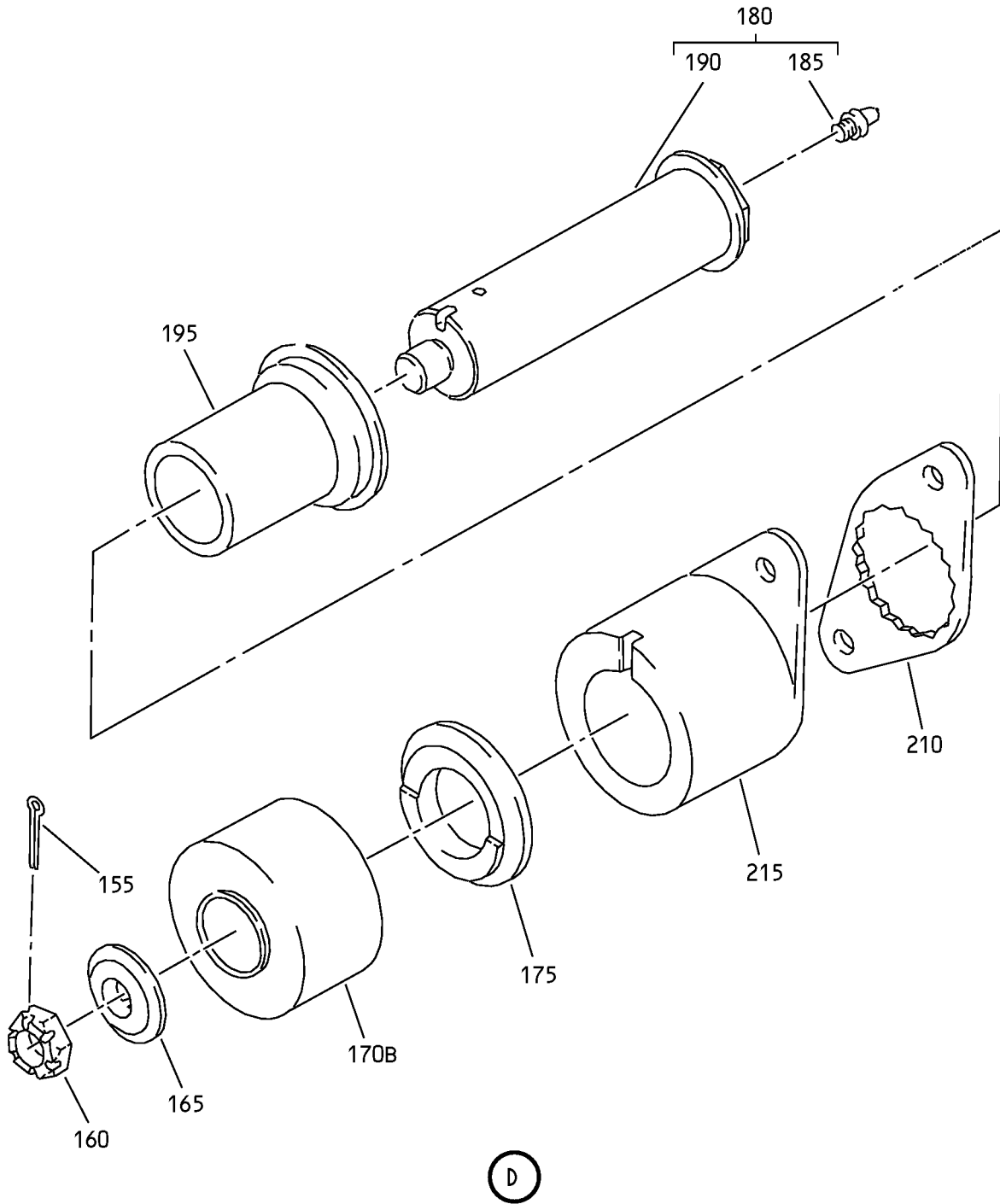
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Inboard Flap Outboard Carriage Assembly  
IPL Figure 1 (Sheet 3 of 9)

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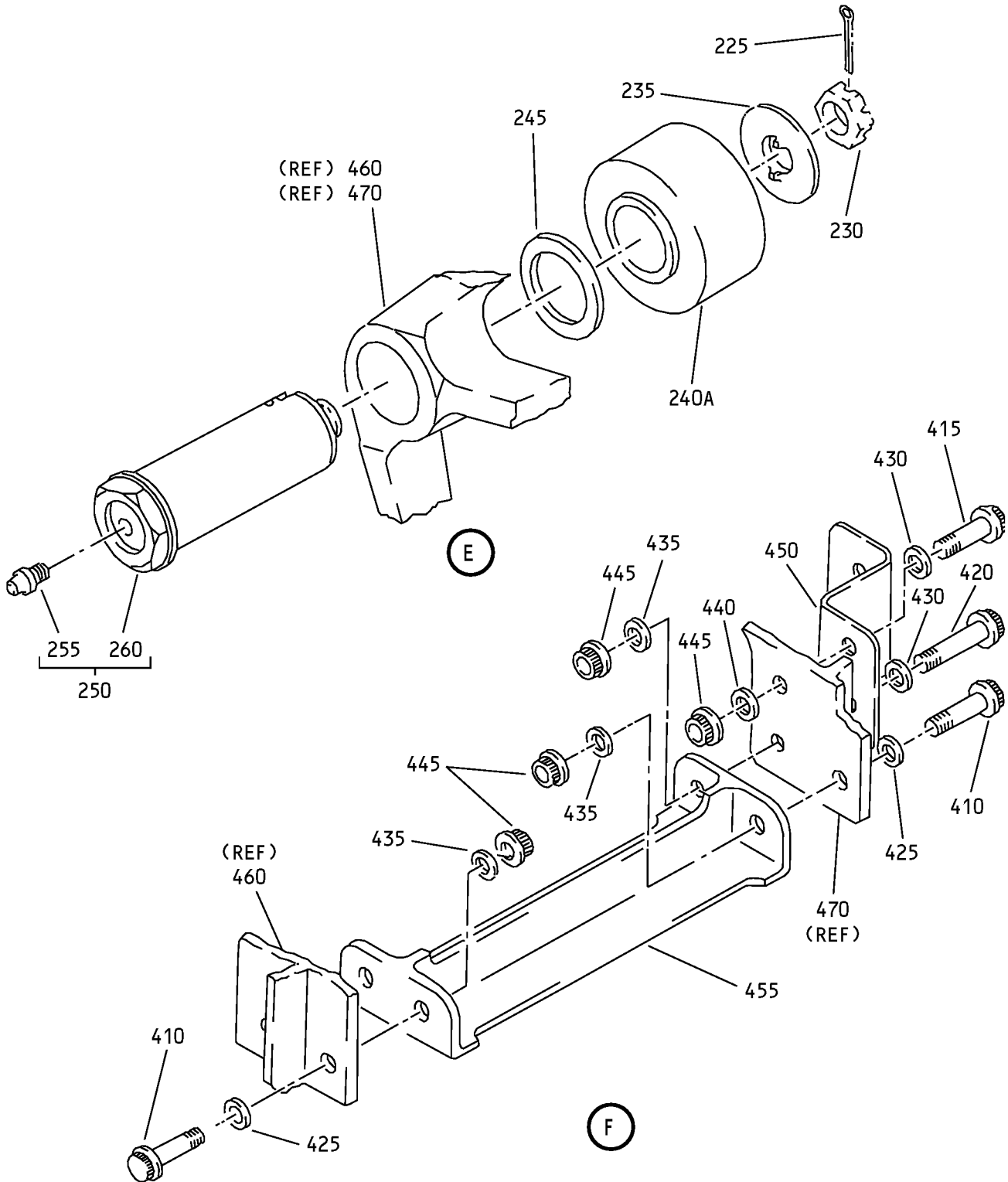


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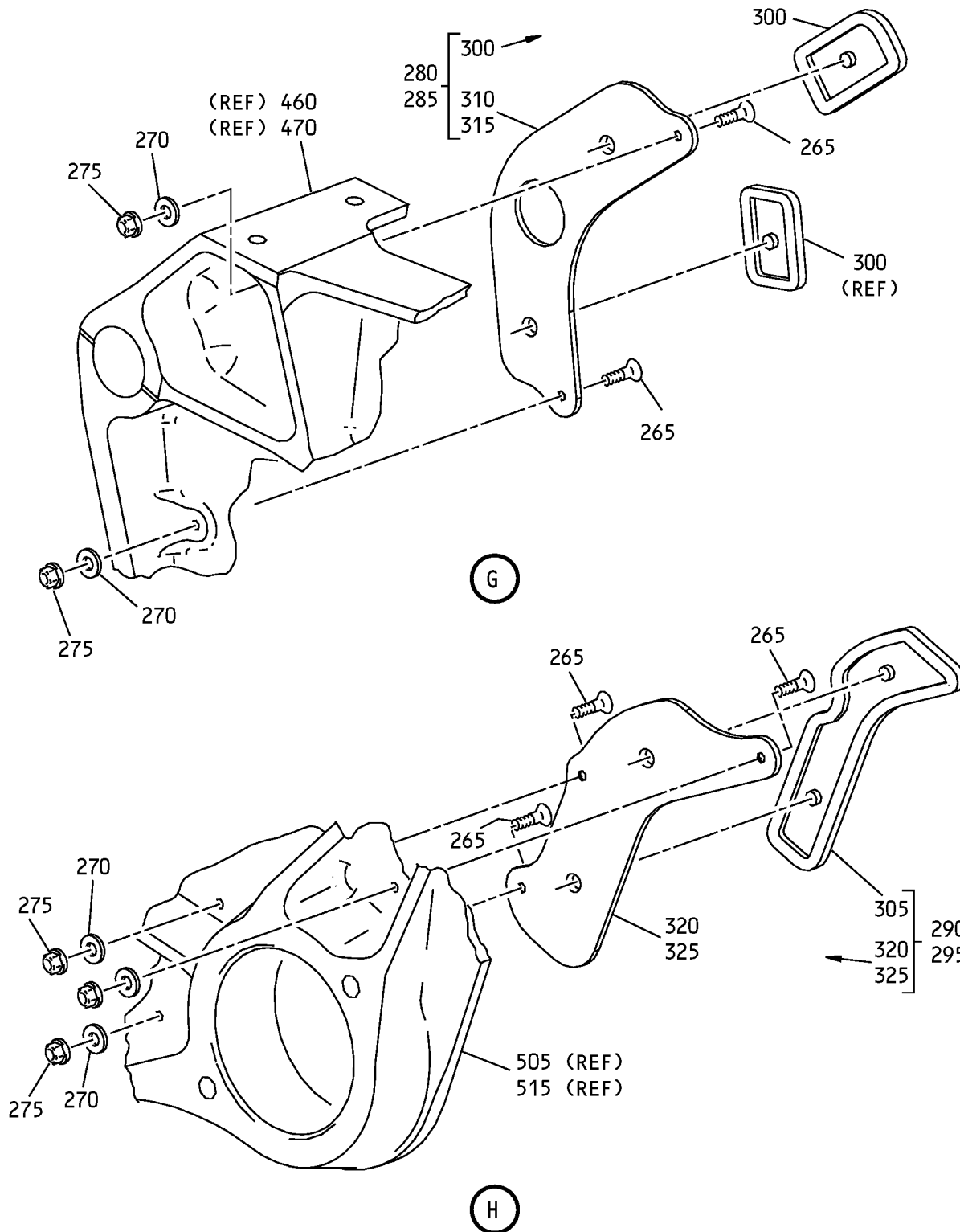
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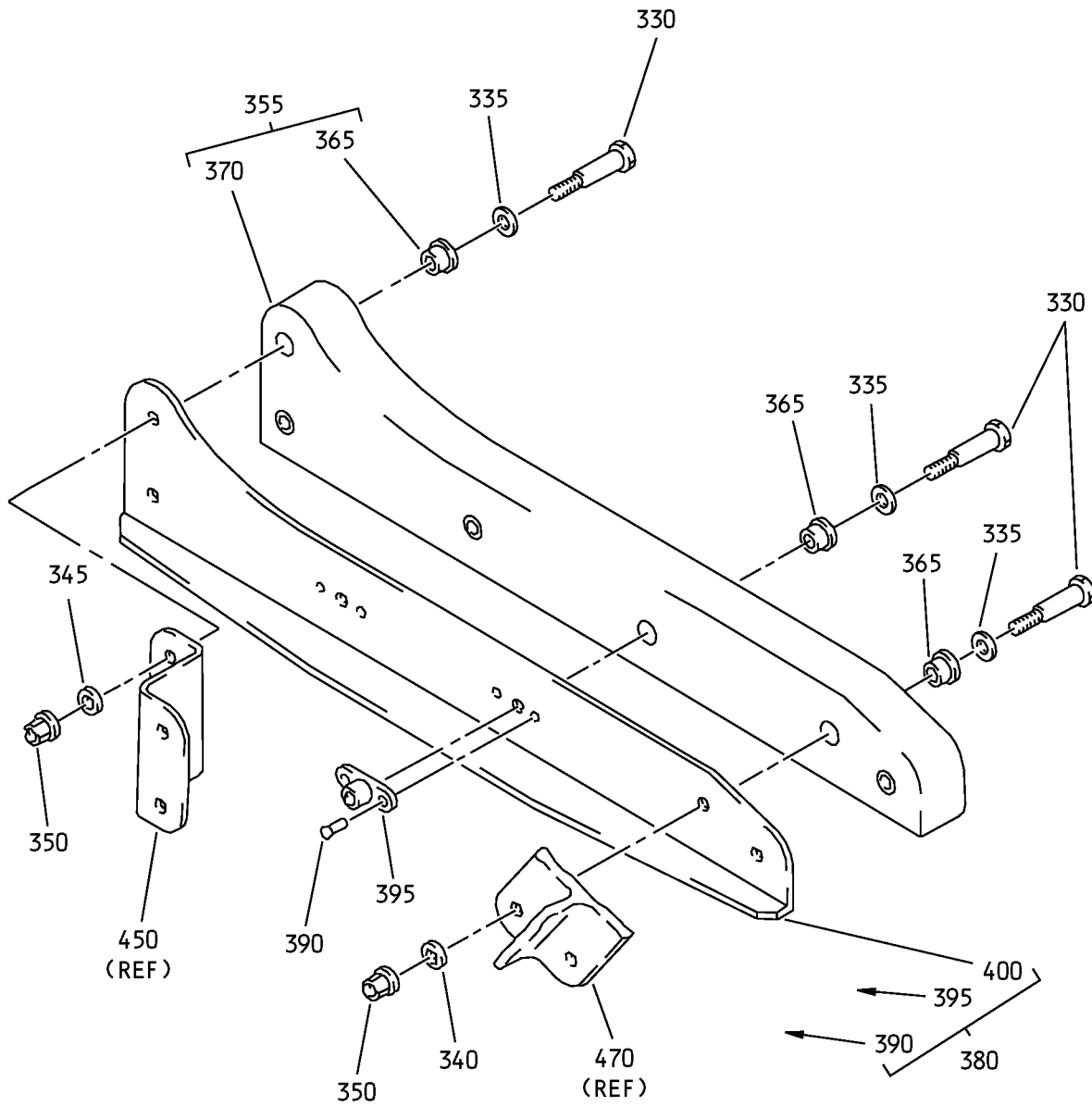
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Inboard Flap Outboard Carriage Assembly  
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Inboard Flap Outboard Carriage Assembly  
IPL Figure 1 (Sheet 7 of 9)

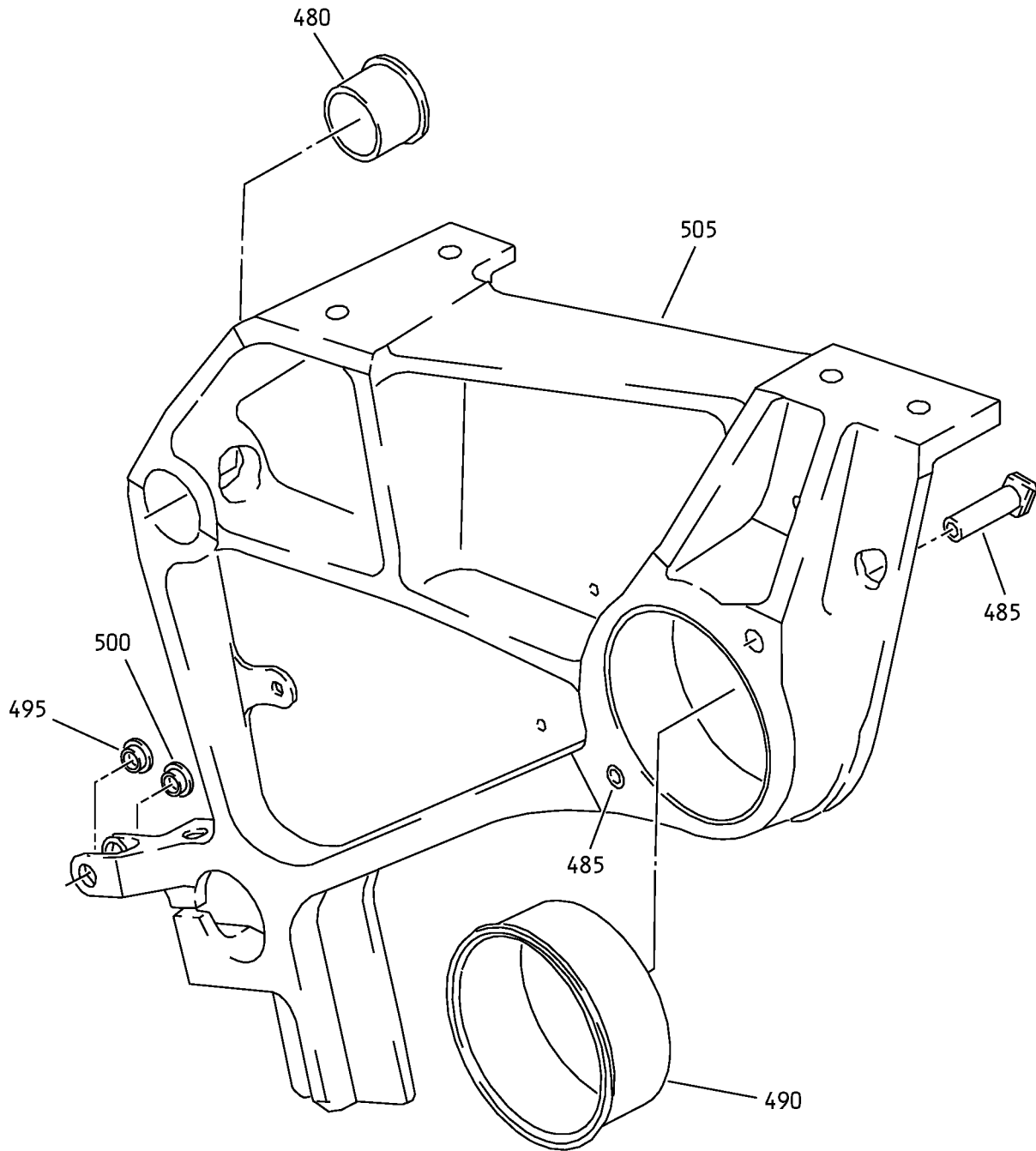
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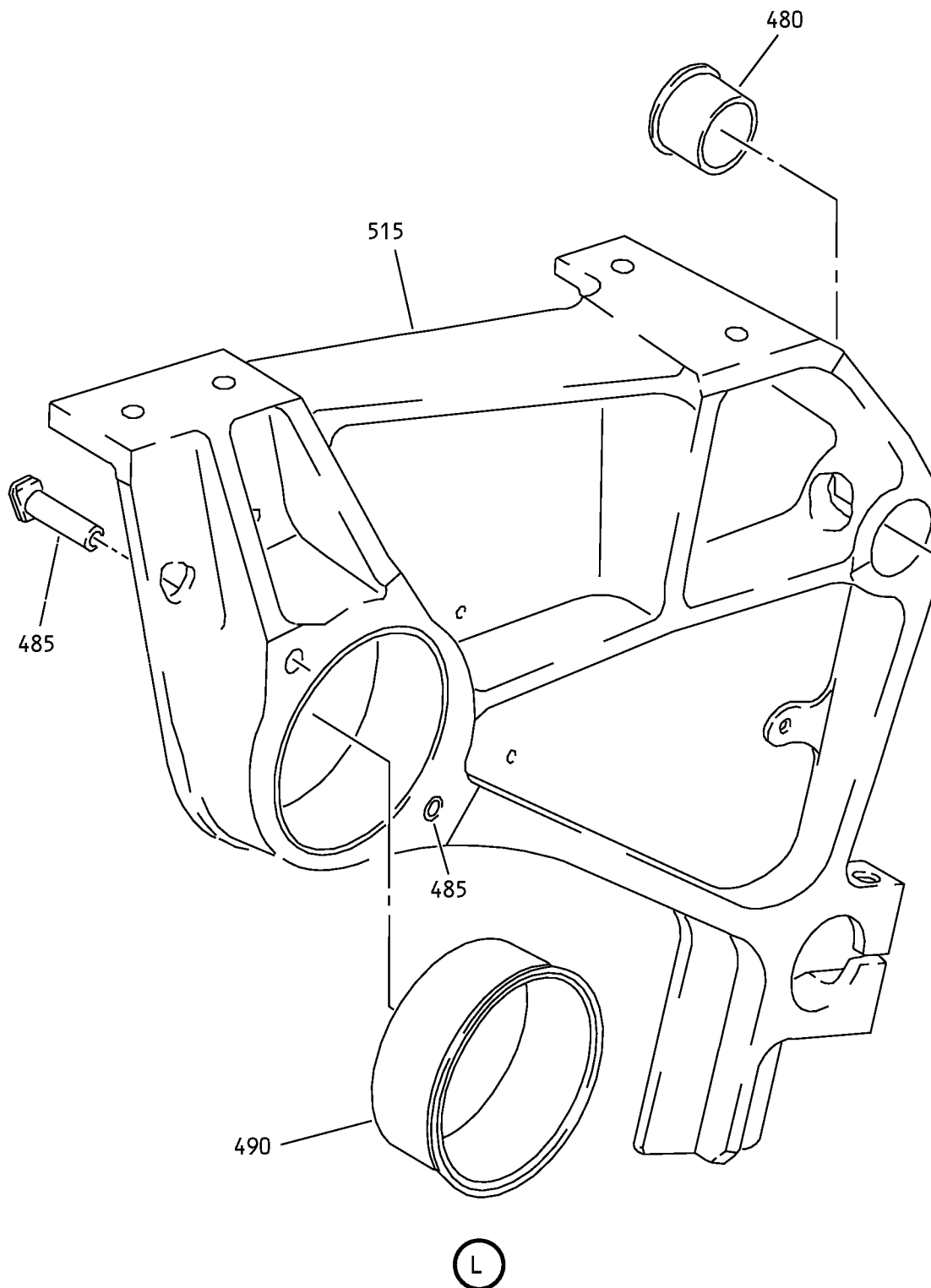


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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
1-											
-1A	113A2850-1									A	RF
-1B	113A2850-3									C	RF
-1C	113A2850-5									E	RF
-1D	113A2850-201									G	RF
-5	113A2850-2									B	RF
-5A	113A2850-4									D	RF
-5B	113A2850-6									F	RF
-5C	113A2850-202									H	RF
10	BACB30NM4HK23									A, B	4
15	BACW10BP4ACU									A, B	4
20	113A2650-3									A	1
-25	113A2650-4									B	1
30	BACB30NM3K5									A, B	2
35	BACW10BP3ACU									A, B	2
40	BACR15GE3C4									A, B	4
45	BACN10YF31CM									A, B	2
50	113A2881-1									A	1
-55	113A2881-2									B	1
60	BACB28X3P009									A, B	2
65	113A2881-5									A	1
-70	113A2881-6									B	1
75	BACP18BC03A11P									A, B	1
80	BACN10JD112ASU									A, B	1
85	113A2655-3									A, B	1
90	AC67862									DELETED	
90A	YR1283									DELETED	

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
1-											
90B	AC68850		. .	ROLLER						A, B	1
				(V60380)							
				(SPEC 60B00178-671)							
				(OPT YR1283 (V92563))							
95	113A2655-1		. .	WASHER						A, B	1
100	113A2652-1		. .	PIN ASSY						A, B	1
105	MS15004-1		. . .	FITTING						A, B	1
110	113A2652-9		. . .	BOLT						A, B	1
115	113A2653-1		. .	BUSHING						A	1
-120	113A2653-2		. .	BUSHING						B	1
125	113A2656-3		. .	RETAINER						A	1
-130	113A2656-4		. .	RETAINER						B	1
135	113A2651-1		. .	HOUSING						A	1
-140	113A2651-2		. .	HOUSING						B	1
145	113A2650-2		. .	CARTRIDGE ASSY-ROLLER						A	1
-150	113A2650-1		. .	CARTRIDGE ASSY-ROLLER						B	1
155	BACP18BC03A11P		. .	PIN-COTTER						A, B	1
160	BACN10JD112ASU		. .	NUT						A, B	1
165	113A2655-3		. .	WASHER						A, B	1
170	AC67862			DELETED							
170A	YR1283			DELETED							
170B	AC68850		. .	ROLLER						A, B	1
				(V60380)							
				(SPEC 60B00178-671)							
				(OPT YR1283 (V92563))							
175	113A2655-1		. .	WASHER						A, B	1
180	113A2652-1		. .	PIN ASSY						A, B	1
185	MS15004-1		. . .	FITTING						A, B	1
190	113A2652-9		. . .	BOLT						A, B	1
195	113A2653-2		. .	BUSHING						A	1
-200	113A2653-1		. .	BUSHING						B	1
205	113A2656-2		. .	RETAINER						A	1
-210	113A2656-1		. .	RETAINER						B	1

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
1-											
215	113A2651-2		.	.	HOUSING					A	1
-220	113A2651-1		.	.	HOUSING					B	1
225	BACP18BC03A11P		.		PIN-COTTER					A, B	2
230	BACN10JD112ASU		.		NUT					A, B	2
235	113A2655-3		.		WASHER					A, B	2
240	AC67861				DELETED						
240A	YR1282		.		ROLLER (V92563) (SPEC 60B00178-670) (OPT AC67861 (V60380)) (OPT AC68849 (V60380))					A, B	2
245	113A2655-7		.		WASHER					A, B	2
250	113A2652-3		.		PIN ASSY					A, B	2
255	MS15004-1		.	.	FITTING					A, B	1
260	113A2652-11		.	.	BOLT					A, B	1
265	BACB30XD3K5		.		BOLT					A, B	10
270	NAS1149E0363R		.		WASHER					A, B	10
275	H52732-3CM		.		NUT (V15653) (SPEC BACN10YR3CM) (OPT PLH53CM (V62554))					A, B	10
280	113A2657-5		.		PLATE ASSY-RUB					A, B	1
285	113A2657-6		.		PLATE ASSY-RUB					A, B	1
290	113A2657-7		.		PLATE ASSY-RUB					A, B	1
295	113A2657-8		.		PLATE ASSY-RUB					A, B	1
300	113A2657-19		.	.	PAD-MOLDED (USED ON ITEMS 280, 285)					A, B	1
305	113A2657-23		.	.	PAD-MOLDED (USED ON ITEMS 290, 295)					A, B	1
310	113A2657-17		.	.	PLATE (USED ON ITEM 280)					A, B	1
315	113A2657-18		.	.	PLATE (USED ON ITEM 285)					A, B	1
320	113A2657-21		.	.	PLATE (USED ON ITEM 290)					A, B	1

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE	USAGE CODE	UNITS PER ASSY
1-					
325	113A2657-22		. . PLATE (USED ON ITEM 295)	A, B	1
330	BACB30NM3K9		. BOLT	A, B	6
335	BACW10BP3ACU		. WASHER	A, B	6
340	BACW10BP3APU		. WASHER	A, B	2
345	BACW10BP3DP		. WASHER	A, B	2
350	H52732-3CM		. NUT (V15653) (SPEC BACN10YR3CM) (OPT PLH53CM (V62554))	A, B	4
355	113A2881-9		. BLOCK ASSY-RUB	A	1
-360	113A2881-10		. BLOCK ASSY-RUB	B	1
365	BACB28X3N025		. . BUSHING	A, B	6
370	113A2881-11		. . BLOCK	A	1
-375	113A2881-12		. . BLOCK	B	1
380	113A2872-1		. FITTING ASSY-FAIRING DEFLECTION CONT	A	1
-385	113A2872-2		. FITTING ASSY-FAIRING DEFLECTION CONT	B	1
390	BACR15BA3AD2C		. . RIVET	A, B	4
395	MF51594-3-2BAC		. . NUTPLATE (V15653) (SPEC BACN10YF32CD)	A, B	2
400	113A2872-3		. . FITTING	A	1
-405	113A2872-4		. . FITTING	B	1
410	BACB30MR4K8		. BOLT	A, B	3
415	BACB30MR4K7		. BOLT	A, B	1
420	BACB30MR4K10		. BOLT	A, B	1
425	BACW10BP4ACU		. WASHER	A, B	3
430	BACW10BP4CD		. WASHER	A, B	2
435	NAS1149E0463P		. WASHER	A, B	4
440	NAS1149E0463R		. WASHER	A, B	1
445	NAS1805-4		. NUT	A, B	5
450	113A2873-1		. CLIP	A, B	1

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY		
			1	2	3	4	5	6	7				
1-													
455	113A2871-1			.							FITTING-BRIDGE	A, B	1
460	113A2862-1			.							FITTING ASSY-OUTBD	A	1
-465	113A2862-2			.							FITTING ASSY-OUTBD	B	1
470	113A2861-1			.							FITTING ASSY-INBD	A	1
-475	113A2861-2			.							FITTING ASSY-INBD	B	1
480	113A2653-21			.	.						BUSHING	A, B	1
485	113A2653-3			.	.						BUSHING	A, B	2
490	113A2653-5			.	.						BUSHING	A, B	1
495	BACB28AP04-014			.	.						BUSHING (USED ON ITEMS 460, 465)	A, B	1
500	BACB28AT06B014A			.	.						BUSHING (USED ON ITEMS 460, 465)	A, B	1
505	113A2862-3			.	.						FITTING (USED ON ITEM 460)	A	1
-510	113A2862-4			.	.						FITTING (USED ON ITEM 465)	B	1
515	113A2861-3			.	.						FITTING (USED ON ITEM 470)	A	1
-520	113A2861-4			.	.						FITTING (USED ON ITEM 475)	B	1
											DELETED		

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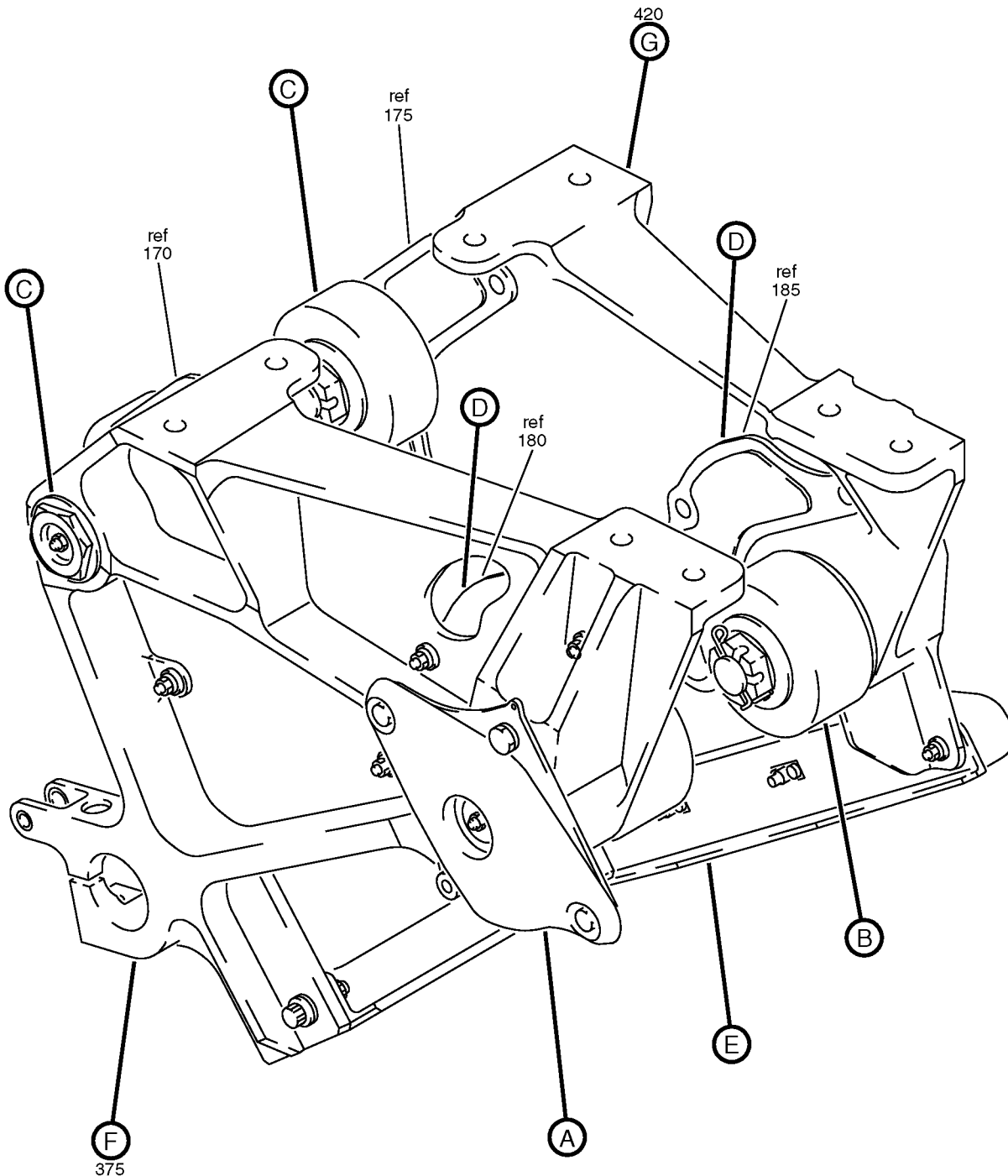
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IPL Figure 2 (Sheet 1 of 7)

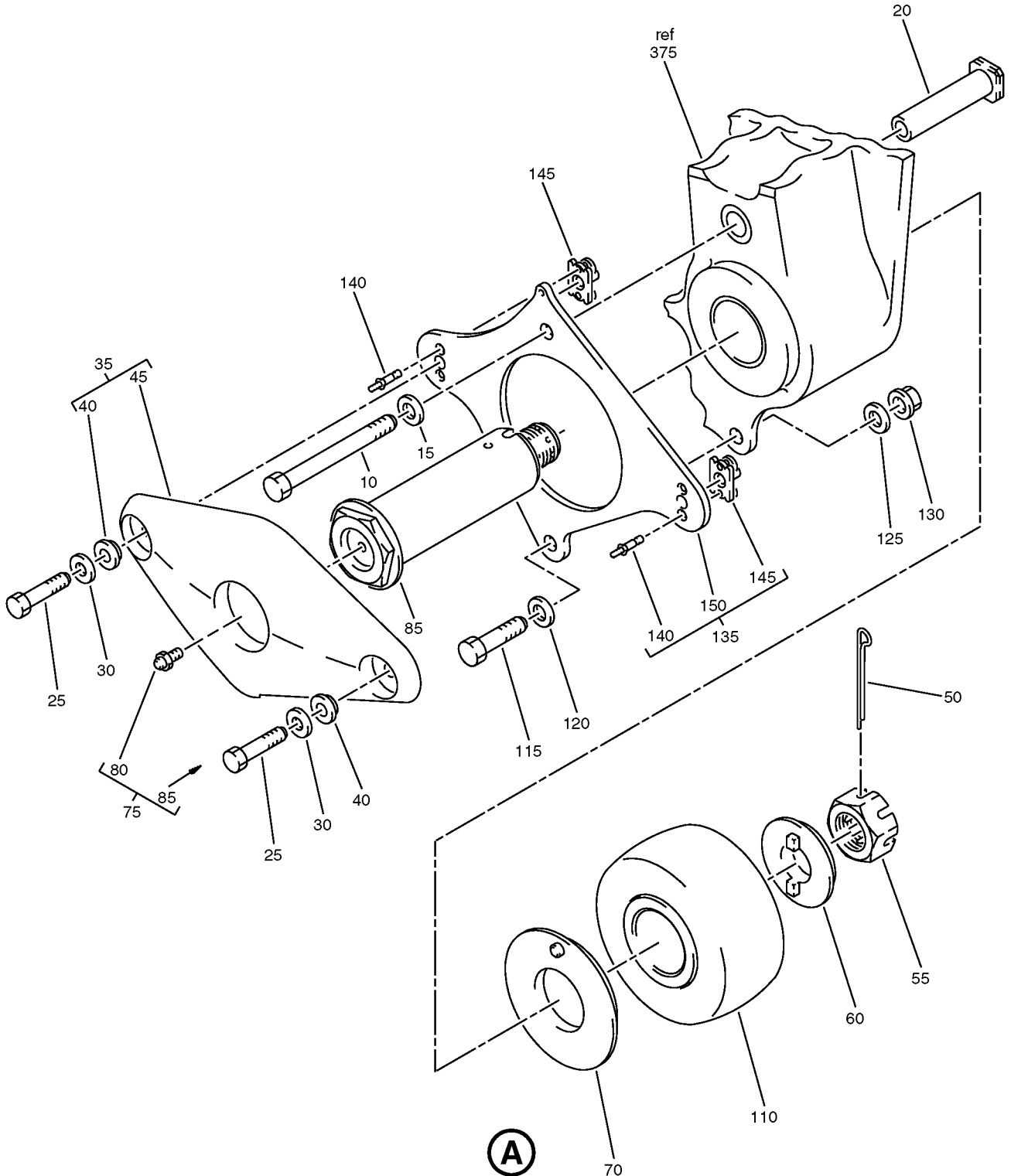
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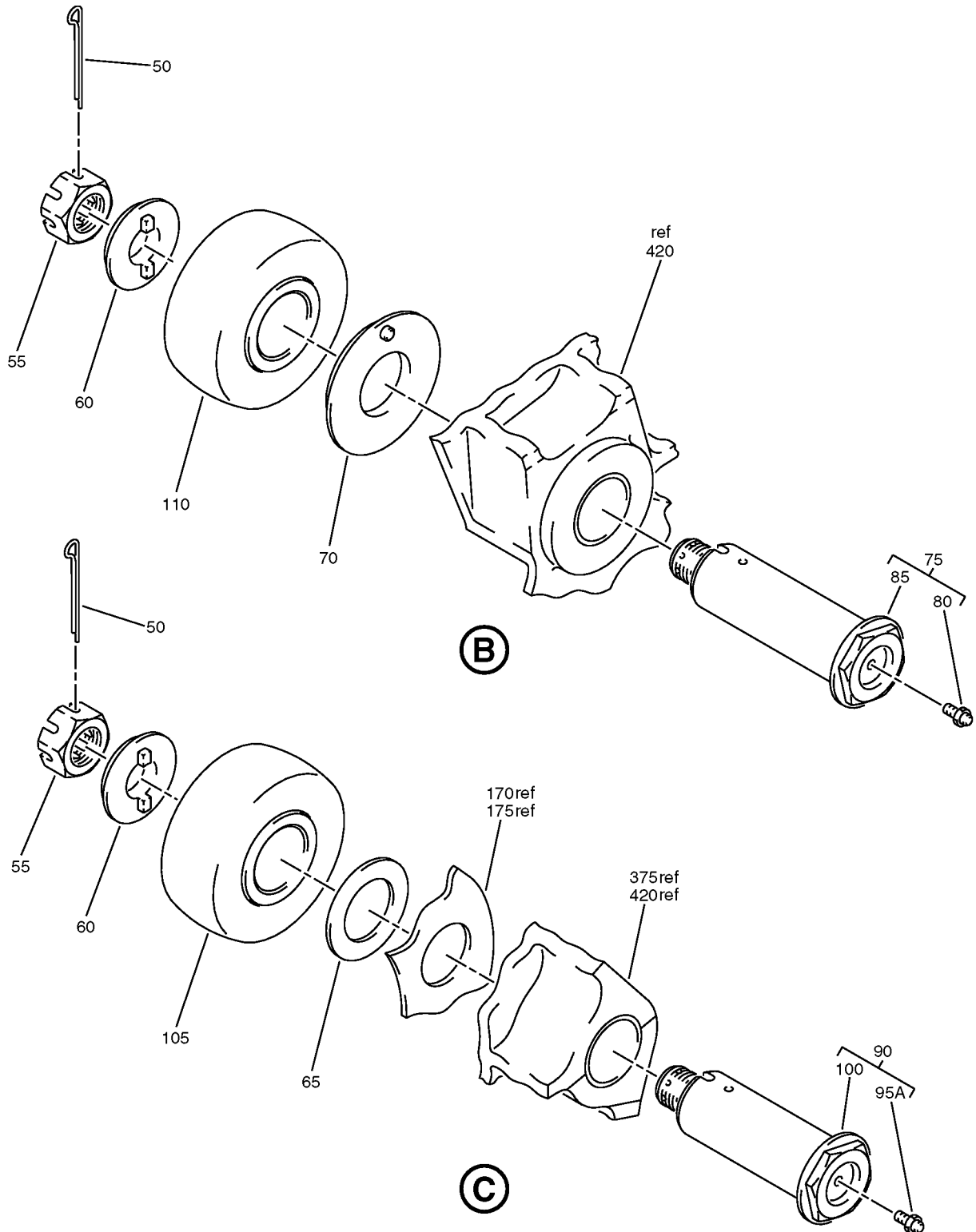
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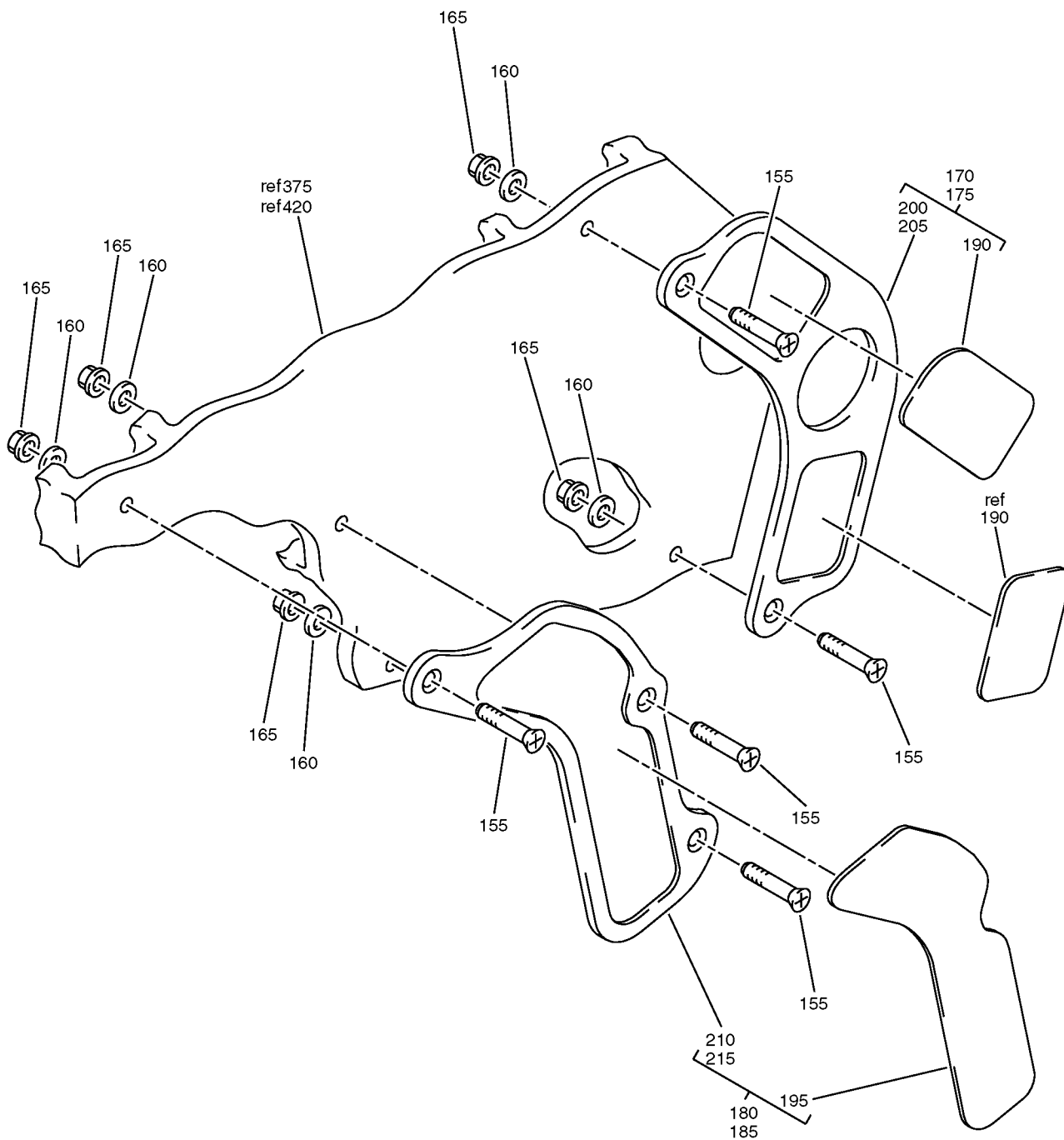
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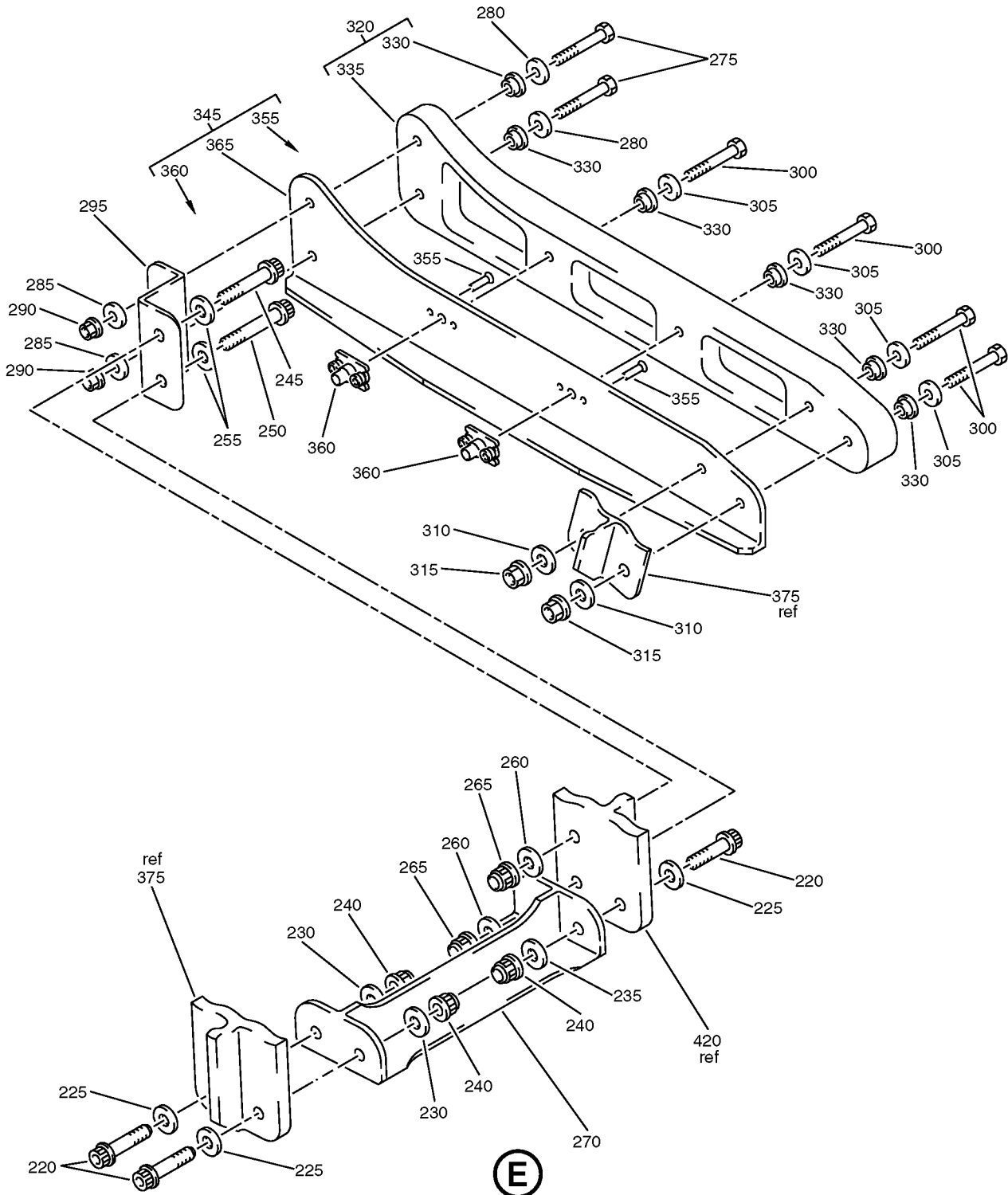


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IPL Figure 2 (Sheet 5 of 7)

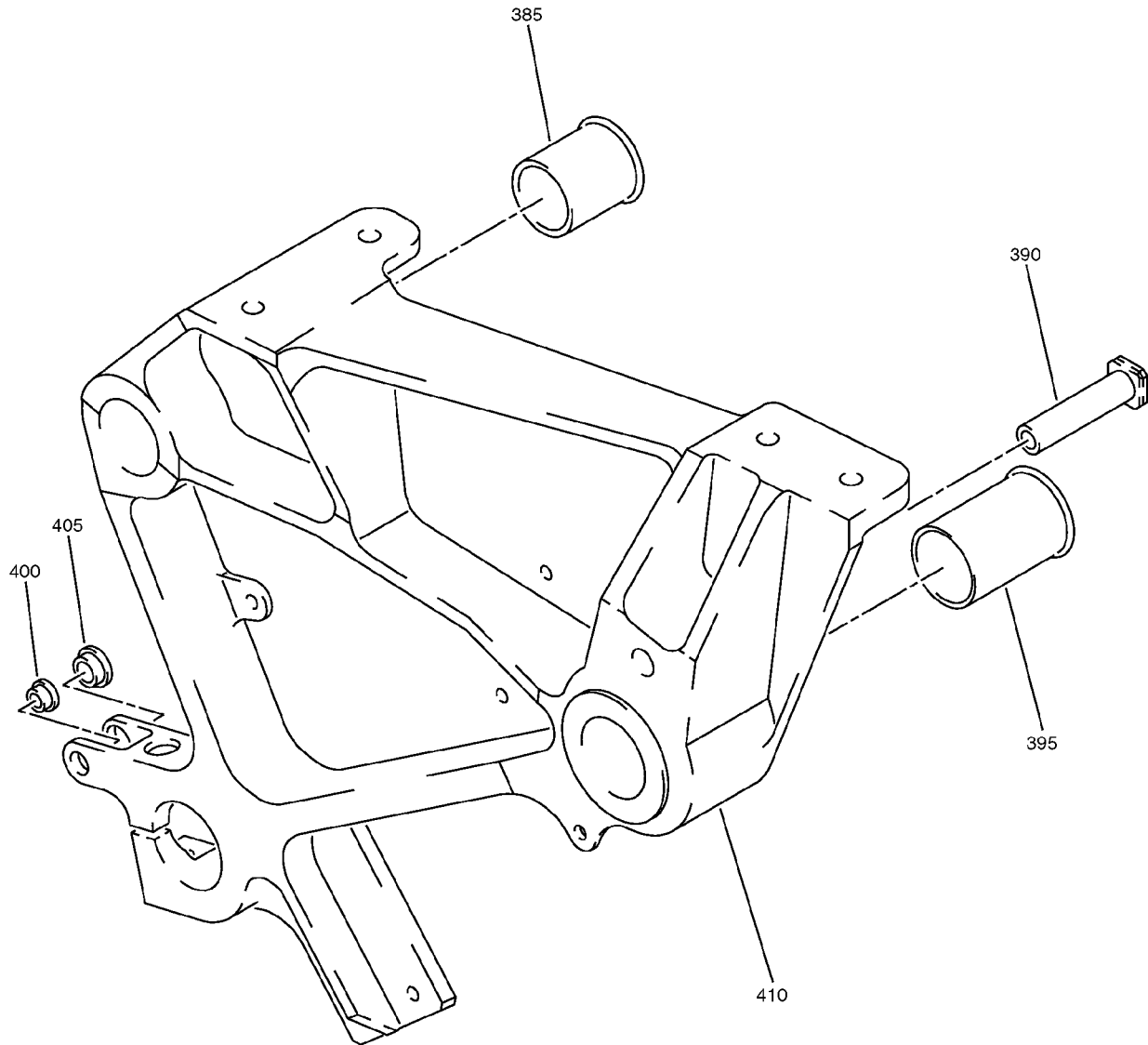
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Inboard Flap Outboard Carriage Assembly  
IPL Figure 2 (Sheet 6 of 7)

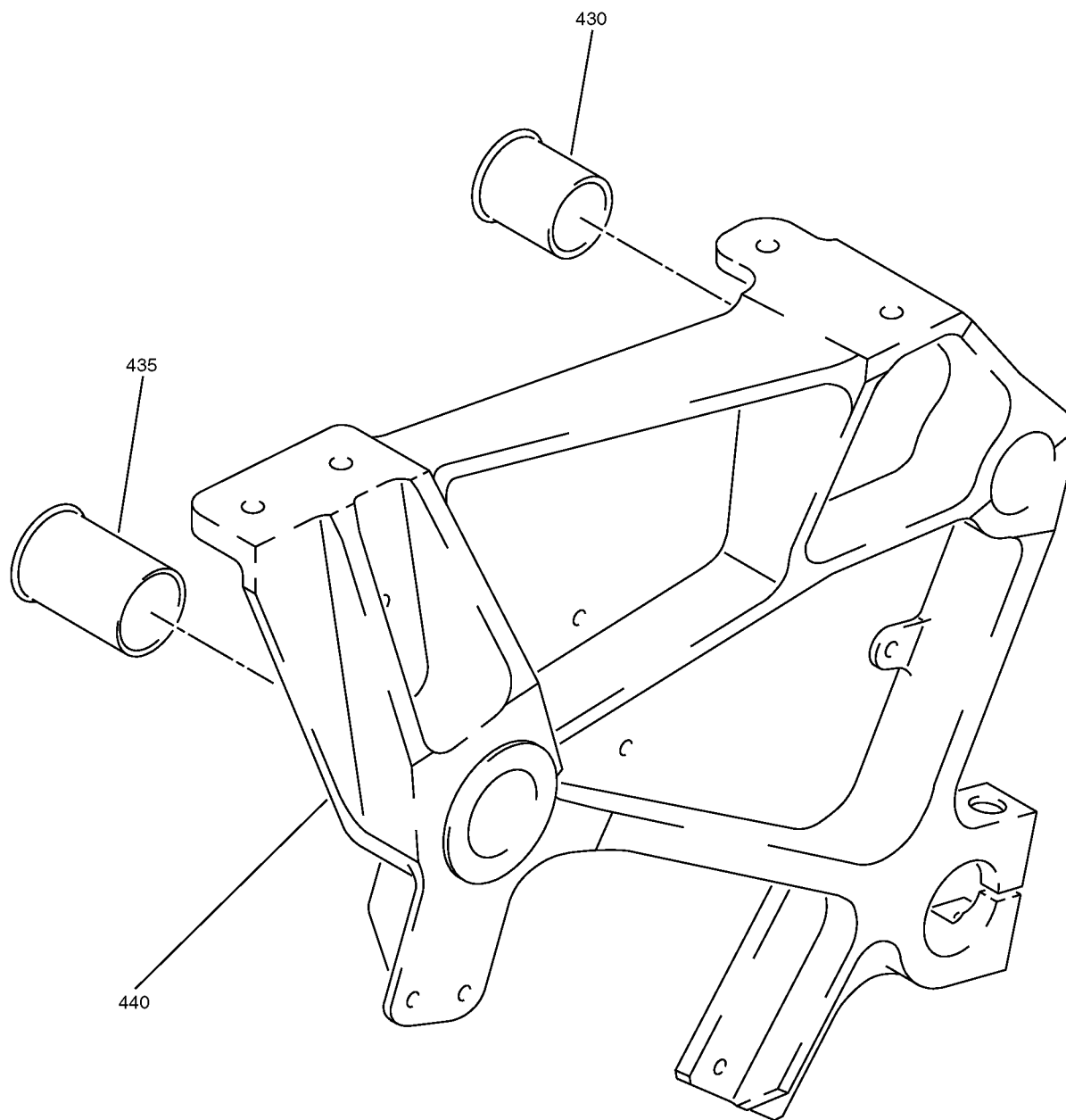
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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
2-											
-1A	113A2850-3									C	RF
-1B	113A2850-5									E	RF
-1C	113A2850-201									G	RF
-5	113A2850-4									D	RF
-5A	113A2850-6									F	RF
-5B	113A2850-202									H	RF
10	BACB30NM4HK23									C, D	1
-10A	BACB30NM4HK22									E-H	1
15	BACW10BP4ACU									C-H	1
20	113A2653-3									C-H	1
25	BACB30NM3K5									C-H	2
30	BACW10BP3ACU									C-H	2
35	113A2881-1									C, E, G	1
-37	113A2881-2									D, F, H	1
40	BACB28X3P009									C-H	2
45	113A2881-5									C, E, G	1
-47	113A2881-6									D, F, H	1
50	BACP18BC03A11P									C-H	4
55	BACN10JD112ASU									C-H	4
60	113A2655-3									C-H	4
65	113A2655-7									C-H	2
70	113A2655-8									C-H	2
75	113A2652-1									C-H	2
80	MS15004-1									C-H	1
85	113A2652-9									C-H	1
90	113A2652-3									C-H	2
95	BACP18BC03A11P										
95A	MS15004-1									C-H	1
100	113A2652-11									C-H	1

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE	USAGE CODE	UNITS PER ASSY
2-					
105	AC68849T8		. ROLLER-TRACK ROLLER (V60380) (SPEC BACB10HH19A)	C-H	2
110	AC68850T8		. ROLLER-TRACK ROLLER (V60380) (SPEC BACB10HH20A)	C-H	2
115	BACB30NM4K4		. BOLT	C-H	1
120	BACW10BP4ACU		. WASHER	C-H	1
125	BACW10BP4DP		. WASHER	C, D	1
-125A	BACW10BP4APU		. WASHER	E-H	1
130	PLH54CM		. NUT (V62554) (SPEC BACN10YR4CM) (OPT H52732-4CM (V15653))	C-H	1
135	113A2658-1		. PLATE ASSY-ATTACH	C, E, G	1
-137	113A2658-2		. PLATE ASSY-ATTACH	D, F, H	1
140	BACR15GE3C4		. . RIVET	C-H	4
145	BACN10YF31CM		. . NUTPLATE	C-H	2
150	113A2658-3		. . RETAINER	C-H	1
155	BACB30XD3K5		. BOLT	C-H	10
160	NAS1149E0363R		. WASHER	C-H	10
165	PLH53CM		. NUT (V62554) (SPEC BACN10YR3CM) (OPT H52732-3CM (V15653))	C-H	10
170	113A2657-5		. PLATE ASSY-RUB	C-H	1
175	113A2657-6		. PLATE ASSY-RUB	C-H	1
180	113A2657-7		. PLATE ASSY-RUB	C-H	1
185	113A2657-8		. PLATE ASSY-RUB	C-H	1
190	113A2657-19		. . PAD-MOLDED (USED ON ITEMS 170, 175)	C-H	1
195	113A2657-23		. . PAD-MOLDED (USED ON ITEMS 180, 185)	C-H	1
200	113A2657-17		. . PLATE (USED ON ITEM 170)	C-H	1

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			1	2	3	4	5	6	7		
2-											
205	113A2657-18		.	.	PLATE (USED ON ITEM 175)					C-H	1
210	113A2657-21		.	.	PLATE (USED ON ITEM 180)					C-H	1
215	113A2657-22		.	.	PLATE (USED ON ITEM 185)					C-H	1
220	BACB30MR4K8		.		BOLT					C-F	3
-220A	BACB30MR4A11		.		BOLT (OPT ITEM 220B)					G, H	3
-220B	BACB30MR4K11		.		BOLT (OPT ITEM 220A)					G, H	3
225	BACW10BP4ACU		.		WASHER					C-H	3
230	NAS1149E0463P		.		WASHER					C-H	3
235	NAS1149E0463R				DELETED						
240	BACN11Z4CK		.		NUT					C-H	3
245	BACB30MR4K7		.		BOLT					C-F	1
-245A	BACB30MR4A8		.		BOLT (OPT ITEM 245B)					G, H	1
-245B	BACB30MR4K8		.		BOLT (OPT ITEM 245A)					G, H	1
250	BACB30MR4K10		.		BOLT					C-F	1
-250A	BACB30MR4A13		.		BOLT (OPT ITEM 250B)					G, H	1
-250B	BACB30MR4K13		.		BOLT (OPT ITEM 250A)					G, H	1
255	BACW10BP4CD		.		WASHER					C-H	2
260	NAS1149E0463P		.		WASHER					C-H	2
265	BACN11Z4CK		.		NUT					C-H	2
270	113A2871-1		.		FITTING-BRIDGE					C-F	1
-270A	113A2871-201		.		FITTING-BRIDGE					G, H	1
275	BACB30NM3K9		.		BOLT					C-H	2
280	BACW10BP3ACU		.		WASHER					C-H	2
285	BACW10BP3DP		.		WASHER					C-H	2

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FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
2-											
290	PLH53CM		.	NUT						C-H	2
				(V62554)							
				(SPEC BACN10YR3CM)							
				(OPT H52732-3CM (V15653))							
295	113A2873-1		.	CLIP						C-H	1
300	BACB30NM3K9		.	BOLT						C-H	4
305	BACW10BP3ACU		.	WASHER						C-H	4
310	BACW10BP3APU		.	WASHER						C-H	2
315	PLH53CM		.	NUT						C-H	2
				(V62554)							
				(SPEC BACN10YR3CM)							
				(OPT H52732-3CM (V15653))							
320	113A2881-9		.	BLOCK ASSY-RUB						C, E, G	1
-325	113A2881-10		.	BLOCK ASSY-RUB						D, F, H	1
330	BACB28X3N025		. .	BUSHING						C-H	6
335	113A2881-11		. .	BLOCK						C, E, G	1
-340	113A2881-12		. .	BLOCK						D, F, H	1
345	113A2872-1		.	FITTING ASSY-FAIRING DEFLECTION CONT						C, E, G	1
-350	113A2872-2		.	FITTING ASSY-FAIRING DEFLECTION CONT						D, F, H	1
355	BACR15BA3AD2C		. .	RIVET						C-H	4
360	MF51594-3-2BAC		. .	NUTPLATE (V15653) (SPEC BACN10YF32CD)						C-H	2
365	113A2872-3		. .	FITTING						C, E, G	1
-370	113A2872-4		. .	FITTING						D, F, H	1
375	113A2862-5		.	FITTING ASSY-OUTBD						C	1
-375A	113A2862-9		.	FITTING ASSY-OUTBD						E, G	1
-380	113A2862-6		.	FITTING ASSY-OUTBD						D	1
-380A	113A2862-10		.	FITTING ASSY-OUTBD						F, H	1
385	113A2653-21		. .	BUSHING						C-H	1
390	113A2653-3		. .	BUSHING						C-H	2
395	113A2653-23		. .	BUSHING						C-H	1
400	BACB28AP04-014		. .	BUSHING						C-H	1

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			1	2	3	4	5	6	7		
2-											
405	BACB28AT06B014A		.	.	BUSHING					C-H	1
410	113A2862-7		.	.	FITTING					C, E, G	1
-415	113A2862-8		.	.	FITTING					D, F, H	1
420	113A2861-5		.	FITTING ASSY-INBD						C, E, G	1
-425	113A2861-6		.	FITTING ASSY-INBD						D, F, H	1
430	113A2653-21		.	.	BUSHING					C-H	1
435	113A2653-23		.	.	BUSHING					C-H	1
440	113A2861-7		.	.	FITTING					C, E, G	1
-445	113A2861-8		.	.	FITTING					D, F, H	1

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