



**COMPONENT MAINTENANCE  
MANUAL  
WITH  
ILLUSTRATED PARTS LIST**

**MAIN LANDING GEAR CENTER DOOR  
ASSEMBLY**

**PART NUMBER  
65C33219-1, -2, -7, -8**

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## COMPONENT MAINTENANCE MANUAL

Revision No. 10  
Jul 01/2009

To: All holders of MAIN LANDING GEAR CENTER DOOR ASSEMBLY 32-16-23.

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.

### ATTENTION

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## COMPONENT MAINTENANCE MANUAL

Location of Change

Description of Change

NO HIGHLIGHTS

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HIGHLIGHTS

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O 1	Jul 01/2009	502	BLANK	902	BLANK
2	BLANK	32-16-23 REPAIR - GENERAL		32-16-23 ILLUSTRATED PARTS LIST	
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A = Added, R = Revised, D = Deleted, O = Overflow

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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

### MAIN LANDING GEAR CENTER DOOR ASSEMBLY - DESCRIPTION AND OPERATION

#### **1. Description and Operation**

A. The main landing gear center door assembly is a composite structure consisting of fiberglass and graphite cloth, epoxy resin, and fiberglass honeycomb. Attached to the composite structure are fitting assemblies, a cradle assembly, and a door seal. The center door is rigidly attached to the main landing gear and drag link. Two hinge fittings, attached to the lower edge of the center door assembly, provide a pivot joint between the landing gear door assemblies. The door is opened and closed by the movement of the landing gear.

#### **2. Leading Particulars (Approximate)**

- A. Length – 25 inches
- B. Width – 22 inches
- C. Thickness – 3 inches
- D. Weight – 12 pounds

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DESCRIPTION AND OPERATION

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**COMPONENT MAINTENANCE MANUAL**

**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 necessary to disassemble the main landing gear center door assembly.
- B. Disassemble this component only as necessary for fault isolation, to find the serviceability of parts, to do the repairs, and to put the unit back in serviceable condition.
- C. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- D. Refer to IPL Figure 1 for the correct item numbers.

#### 2. Disassembly Procedure

##### A. Procedure

- (1) Use standard industry practices for disassembly of this component.

**NOTE:** Remove fitting assemblies (110, 150, IPL Figure 1) per 20-10-08; Removal of Faying Surface Sealed Fittings from Composite Structure.

- (2) Record thickness of shims (45, 50, 55, 85, 90, 95, 195, 200) for reference during assembly. (The thickness of shims has been determined or installation to meet the aerodynamic requirement.)

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DISASSEMBLY

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## COMPONENT MAINTENANCE MANUAL

### CLEANING

#### 1. General

- A. This procedure tells how to clean the main landing gear center door assembly.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for the correct item numbers.

#### 2. Cleaning procedure

##### A. References

Reference	Title
SOPM 20-30-03	GENERAL CLEANING PROCEDURES
SOPM 20-30-99	SOLVENTS FOR FINAL CLEANING OF COMPOSITES BEFORE STRUCTURAL BONDING (SERIES 99)

##### B. Procedure

- (1) Clean all parts by standard industry practices and the instructions in SOPM 20-30-03, unless as shown in the next step.

**CAUTION:** DO NOT VAPOR DEGREASE EPOXY BONDED STRUCTURES WITH CHLORINATED CLEANING AGENTS SUCH AS METHYLENE CHLORIDE, TRICHLOROETHYLENE, AND TRICHLOROETHANE. CHLORINATED CLEANING AGENTS WILL CAUSE DAMAGE TO EPOXY BONDED STRUCTURES. 1,1,1-TRICHLOROETHANE IS ONE OF THE SOLVENTS ALLOWED FOR CLEANING COMPOSITE COMPONENTS. DO NOT SUBMERGE PARTS IN THE SOLVENT OR ALLOW STANDING SOLVENT ON THE PARTS OR DAMAGE MAY OCCUR. USE 1,1, 1-TRICHLOROETHANE ONLY AS A WIPE SOLVENT.

**CAUTION:** DO NOT PUT THE PARTS IN THE SOLVENT OR LET SOLVENT STAY ON THE PARTS.

- (2) Clean door bond assembly (210, IPL Figure 1) with a non-chlorinated vapor degreasing agent or a Series 99 solvent (Ref SOPM 20-30-99).

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CLEANING

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## COMPONENT MAINTENANCE MANUAL

### CHECK

#### 1. General

- A. This procedure tells how to check the main landing gear center door assembly.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for the correct item numbers.

#### 2. Check Procedures

##### A. References

Reference	Title
737 SRM 52-80-01	Structural Repair Manual
737 SRM 52-80-02	Structural Repair Manual

##### B. Procedure

- (1) Examine all parts for defects by standard industry practices. Refer to FITS AND CLEARANCES for design dimensions and wear limits.
- (2) Penetrant check (SOPM 20-20-02) – Fittings (60, 100, 140, 165, 745, IPL Figure 1) and cradle fitting (205).
- (3) Examine the honeycomb panel and bonded parts for signs of delamination, internal water, scratches, and contour defects.
- (4) Ultrasonically examine for delamination.
- (5) Radiographically examine areas that could contain water to see how much damage there is.
- (6) Examine the edges of the panel carefully for cuts and abrasions. Delamination starts very easily from damage to an edge member of the honeycomb panel.
- (7) Examine the assembly for nicks, scratches and corrosion and refer to 737 SRM 52-80-02 or 737 SRM 52-80-01, for allowable wear limits and repair data.

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CHECK

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## COMPONENT MAINTENANCE MANUAL

### REPAIR

#### 1. Content

A. Repair, refinish and replacement procedures are included in separate repair sections as follows:

**Table 601:**

<b>P/N</b>	<b>NAME</b>	<b>REPAIR</b>
69-77211	FITTING ASSY	1-1
69-77213	ATTACH FITTING ASSY	2-1
69-42372	BRACKET ASSY	3-1
69-42374	BRACKET ASSY	3-1
65C30882	HINGE ASSY	4-1
---	MISCELLANEOUS PARTS REFINISH	5-1

#### 2. Materials

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

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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
$\bigcirc$ (with slash)	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)
$\nearrow$ (with slash)	TOTAL RUNOUT	$\textcircled{P}$	PROJECTED TOLERANCE ZONE
$\sqcup$	COUNTERBORE OR SPOTFACE	FIM	FULL INDICATOR MOVEMENT
$\sphericalangle$ (with slash)	COUNTERSINK	TIR	TOTAL INDICATOR READING

EXAMPLES

$\boxed{-0.002}$	STRAIGHT WITHIN 0.002	$\boxed{\textcircled{\oplus} \varnothing 0.0005 \text{ C}}$	CONCENTRIC TO C WITHIN 0.0005 DIAMETER
$\boxed{\perp 0.002 \text{ B}}$	PERPENDICULAR TO B WITHIN 0.002	$\boxed{\equiv 0.010 \text{ A}}$	SYMMETRICAL WITH A WITHIN 0.010
$\boxed{\parallel 0.002 \text{ A}}$	PARALLEL TO A WITHIN 0.002	$\boxed{\sphericalangle 0.005 \text{ A}}$	ANGULAR TOLERANCE 0.005 WITH A
$\boxed{\bigcirc 0.002}$	ROUND WITHIN 0.002	$\boxed{\oplus \varnothing 0.002 \textcircled{S} \text{ B}}$	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	$\boxed{\perp \varnothing 0.010 \textcircled{M} \text{ A}}$ $\boxed{0.510 \textcircled{P}}$	AXIS IS TOTALLY WITHIN A CYLINDER OF 0.010-INCH DIAMETER, PERPENDICULAR TO, AND EXTENDING 0.510-INCH ABOVE, DATUM A, MAXIMUM MATERIAL CONDITION
$\boxed{\frown 0.006 \text{ A}}$	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
$\boxed{\triangle 0.020 \text{ A}}$	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		$\boxed{0.020 \text{ A}}$ $\boxed{\text{A} 0.020}$	

True Position Dimensioning Symbols  
Figure 601

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REPAIR - GENERAL

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## COMPONENT MAINTENANCE MANUAL

### FITTING ASSEMBLY - REPAIR 1-1

69-77211-1

#### 1. General

- A. This procedure tells how to replace the bushings of the fitting assembly.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for the item numbers.

#### 2. Repair Procedures

- 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. Bushing Replacement (65) (IPL Figure 1)

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

- (1) Remove the old bushings (65).
- (2) Install replacement bushings (see REPAIR 1-2 for oversize bushings) as specified in SOPM 20-50-03 with wet sealant, A00247.
- (3) Machine the bushings as specified in REPAIR 1-1, Figure 601.

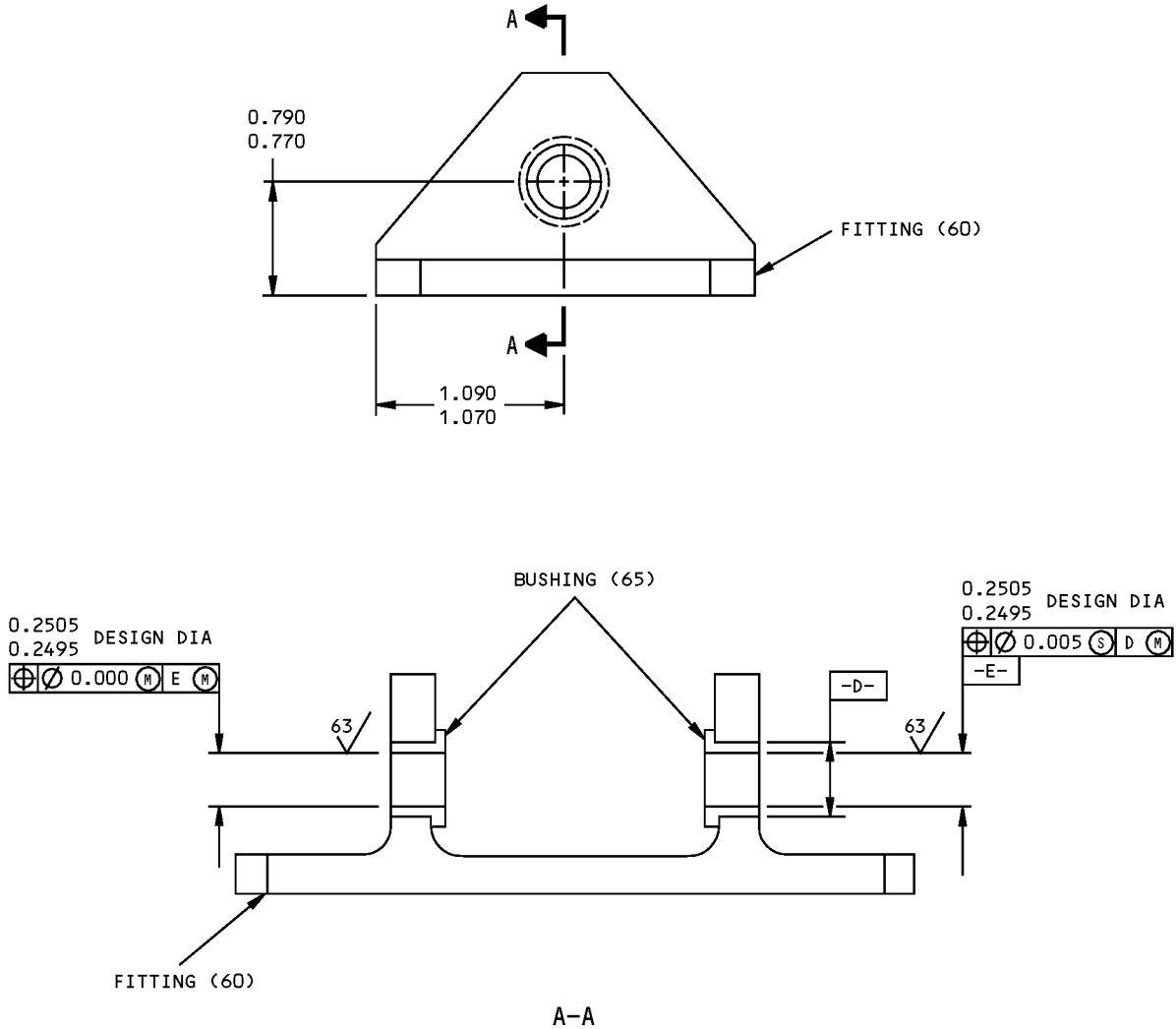
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REPAIR 1-1

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**REFINISH**

APPLY BMS 10-60, BAC707 GRAY ENAMEL (SRF-14.9813) ALL OVER, EXCEPT NO ENAMEL IN BUSHING HOLES.

**REPAIR**

125/ ALL MACHINED SURFACES EXCEPT AS NOTED

BREAK ALL SHARP EDGES

ITEM NUMBERS REFER TO IPL FIG. 1

ALL DIMENSIONS ARE IN INCHES

69-77211-1

Bushing Replacement  
Figure 601

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REPAIR 1-1

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## COMPONENT MAINTENANCE MANUAL

### FITTING ASSEMBLY - REPAIR 1-2

69-77211-2

#### 1. General

- A. This procedure tells how to repair the fitting assembly.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for the correct item numbers.

#### 2. Repair procedures

- A. Hole for Bushings (REPAIR 1-2, Figure 601)

**NOTE:** For repair of surfaces which is only replacement of the original finish, refer to Refinish instructions, REPAIR 1-2, Figure 601.

- (1) Machine as necessary, within repair limits, to remove defects.
- (2) Shot peen and passivate.
- (3) Make oversize bushings as required per REPAIR 1-2, Figure 602 to adjust for the defects removed for the fitting in REPAIR 1-2, Paragraph 2.A.(1).
- (4) Install the oversize bushings as specified in REPAIR 1-1.

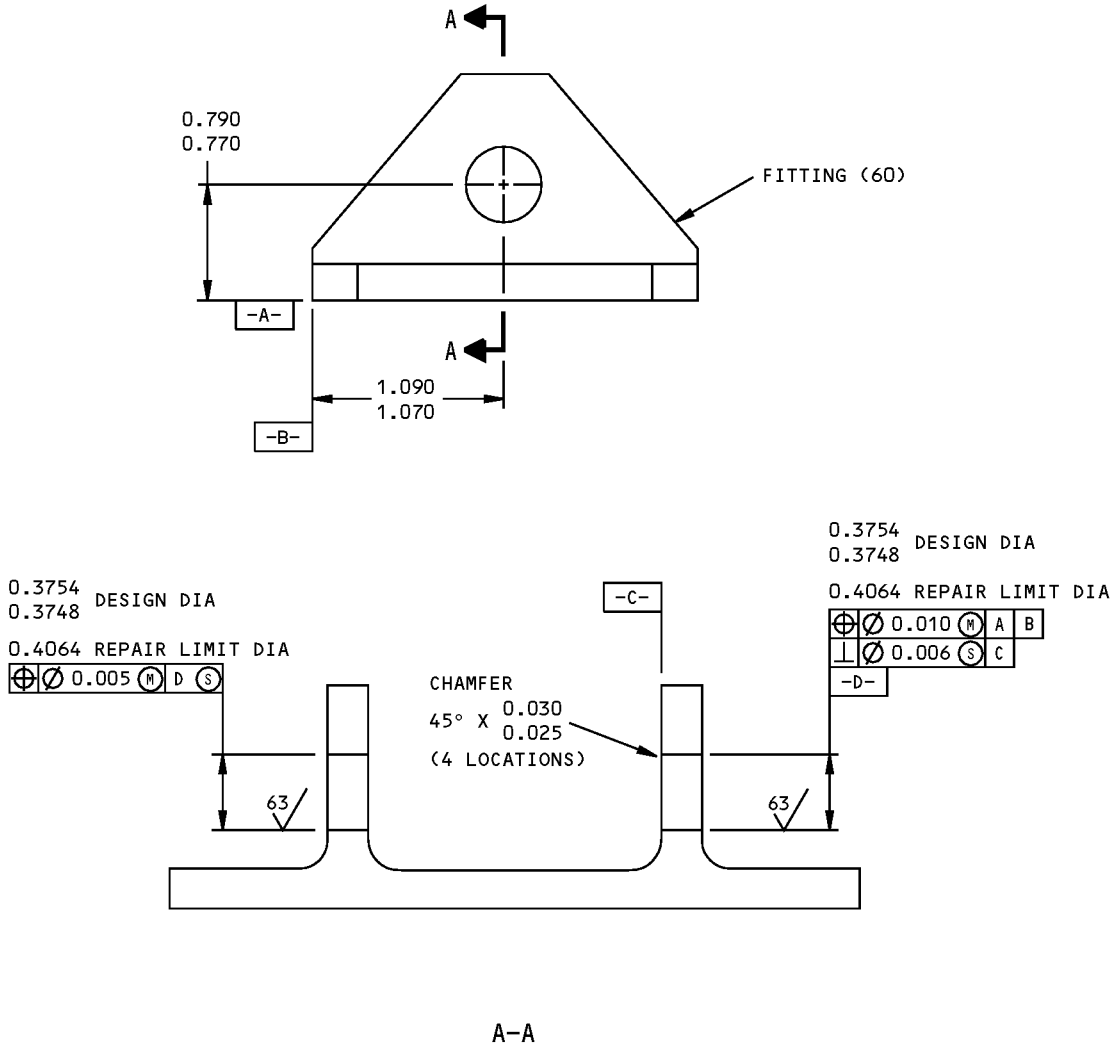
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REPAIR 1-2

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**REFINISH**

CHROMIC ACID ANODIZE AND APPLY ONE COAT OF BMS 10-11, TYPE 1 PRIMER (F-18.13). APPLY BMS 10-60, BAC707 GRAY GLOSS ENAMEL (SRF-14.9813) ALL OVER EXCEPT IN BUSHING HOLES

**REPAIR**

125/ ALL MACHINED SURFACES EXCEPT AS NOTED  
BREAK ALL SHARP EDGES  
MATERIAL: ALUMINUM ALLOY  
ITEM NUMBERS REFER TO IPL FIG. 1  
ALL DIMENSIONS ARE IN INCHES

69-77211-2

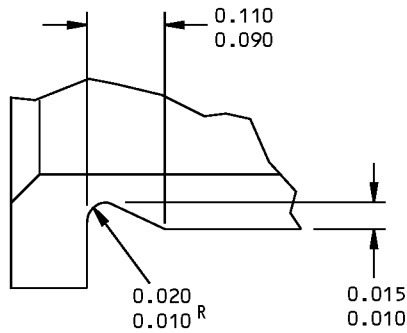
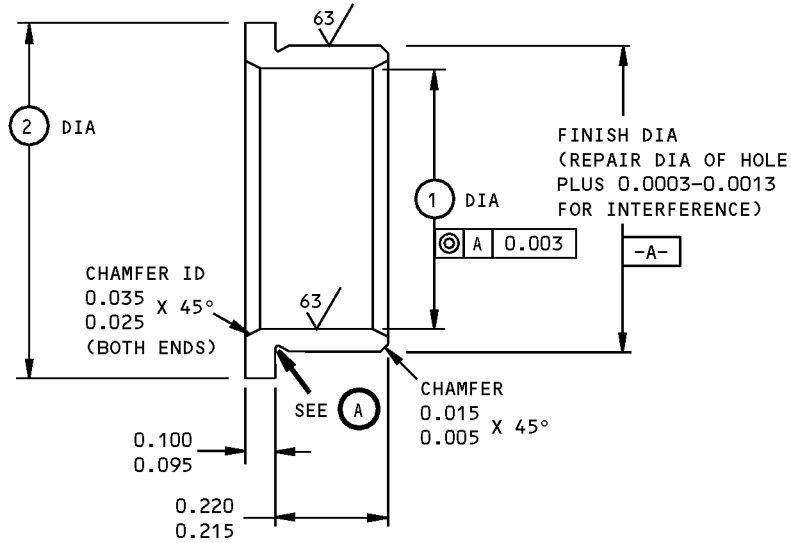
Fitting Repair  
Figure 601

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REPAIR 1-2  
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(A)

BUSHING ITEM NUMBER	1	2
105	0.2430 0.2380 1	0.510 0.490 1

REFINISH

CADMIUM PLATE (F-15.06) ALL OVER EXCEPT IN BUSHING BORE

1 DIMENSIONS AFTER PLATING

REPAIR

63 / MACHINED SURFACES EXCEPT AS NOTED

BREAK ALL SHARP EDGES

MATERIAL: 17-4PH CRES (180-200 KSI)

MAGNETIC PARTICLE CHECK

ITEM NUMBERS REFER TO IPL FIG. 1

ALL DIMENSIONS ARE IN INCHES

69-77211-2 Oversize Bushing Detail  
Figure 602

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REPAIR 1-2

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## COMPONENT MAINTENANCE MANUAL

### ATTACH FITTING ASSEMBLY - REPAIR 2-1

69-77213-1

#### 1. General

- A. This procedure tells how to replace bushings of the fitting assembly.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for the correct item numbers.

#### 2. Repair Procedures

- 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. Bushing Replacement (105)

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

- (1) Remove the old bushings (105).
- (2) Install replacement bushings (See REPAIR 2-2 for oversize bushings) as specified in SOPM 20-50-03 with wet sealant, A00247.
- (3) Machine the bushings as specified in REPAIR 2-1, Figure 601.

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REPAIR 2-1

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## COMPONENT MAINTENANCE MANUAL

### ATTACH FITTING ASSEMBLY - REPAIR 2-2

69-77213-2

#### 1. General

- A. This procedure tells how to repair the fitting.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for the correct item numbers.

#### 2. Repair Procedures (REPAIR 2-2, Figure 601)

- A. Hole for Bushings

**NOTE:** For repair of surfaces which is only replacement of the original finish, refer to Refinish instructions, REPAIR 2-2, Figure 601.

- (1) Machine the hole as required, within repair limits, to remove defects.
- (2) Shot peen and passivate.
- (3) Make oversize bushings as required per REPAIR 2-2, Figure 602 to adjust for the material removed in REPAIR 2-2, Paragraph 2.A.(1).
- (4) Install the bushings as specified in REPAIR 2-1.

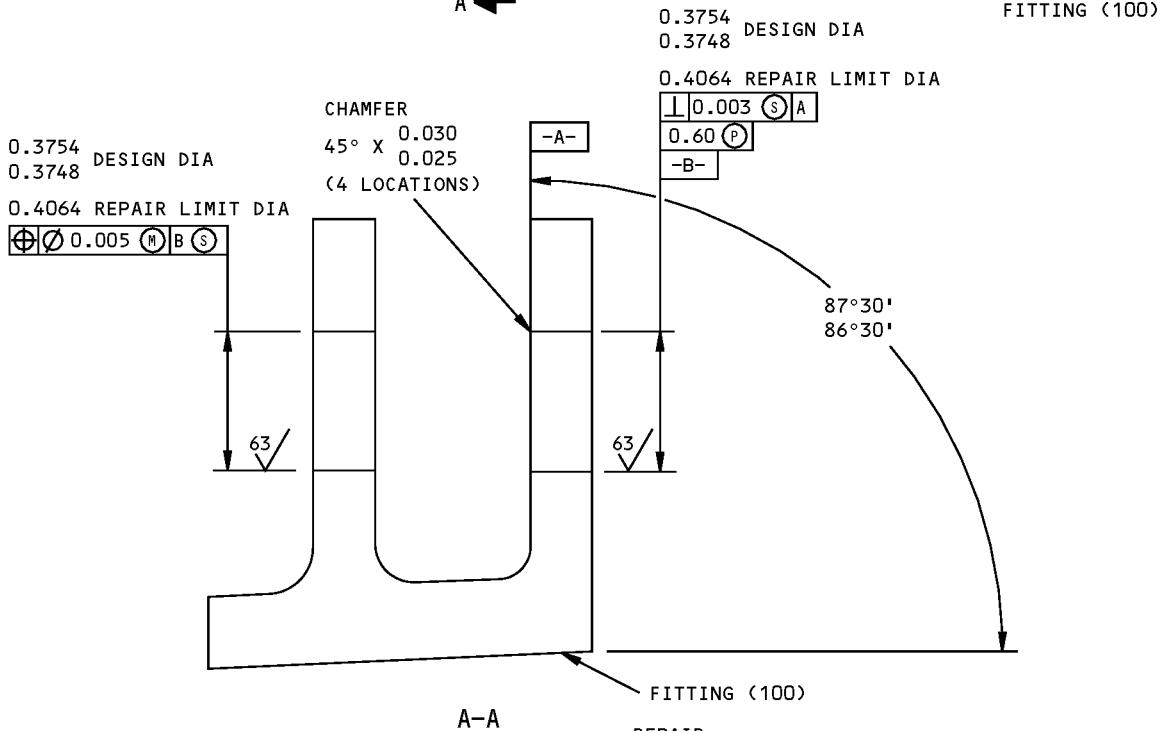
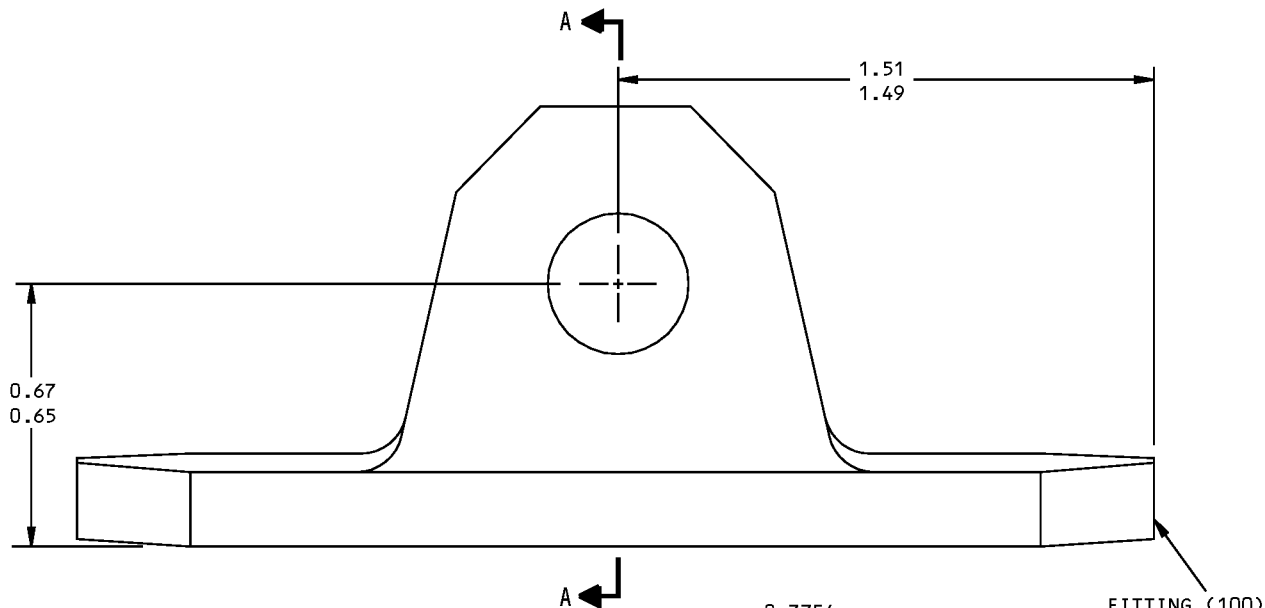
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REPAIR 2-2

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**REFINISH**

CHROMIC ACID ANODIZE AND APPLY ONE COAT OF BMS 10-11, TYPE 1 PRIMER (F-18.13). APPLY BMS 10-60, BAC707 GRAY GLOSS ENAMEL (SRF-14.9813) ALL OVER EXCEPT IN BUSHING HOLES.

**REPAIR**

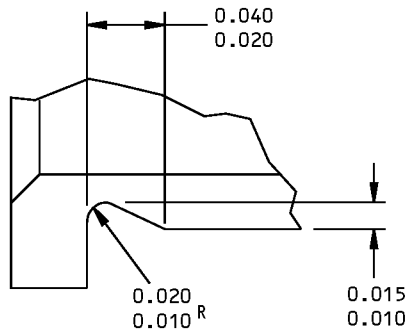
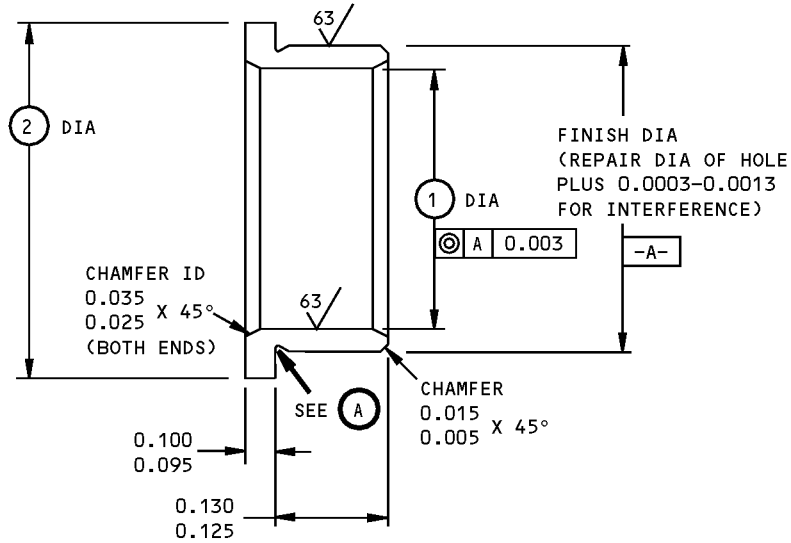
125  $\sqrt{\text{ }}$  ALL MACHINED SURFACES EXCEPT AS NOTED  
 BREAK ALL SHARP EDGES  
 MATERIAL: ALUMINUM ALLOY  
 ITEM NUMBERS REFER TO IPL FIG. 1  
 ALL DIMENSIONS ARE IN INCHES

69-77213-2 Fitting Repair  
 Figure 601

**32-16-23**



COMPONENT MAINTENANCE MANUAL



BUSHING ITEM NUMBER	1	2
65	0.2430 0.2380	0.510 0.490
	1	1

REFINISH

CADMIUM PLATE (F-15.06) ALL OVER  
EXCEPT IN BUSHING BORE

1 DIMENSIONS AFTER PLATING

REPAIR

63 MACHINED SURFACES EXCEPT AS NOTED

BREAK ALL SHARP EDGES

MATERIAL: 17-4PH CRES (180-200 KSI)

MAGNETIC PARTICLE CHECK

ALL DIMENSIONS ARE IN INCHES

69-37867-20 Oversize Bushing Detail  
Figure 602

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REPAIR 2-2

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## COMPONENT MAINTENANCE MANUAL

### BRACKET ASSEMBLY - REPAIR 3-1

69-42372-9, 69-42374-7

#### 1. General

- A. This procedure tells how to repair the bracket assembly.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for the item numbers.

#### 2. Repair Procedures

- A. Consumable Materials

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

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS 5-95
C00259	Primer - Chemical And Solvent Resistant Finish, Epoxy Resin	BMS10-11, Type I
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 20-50-03	BEARING AND BUSHING REPLACEMENT
SOPM 20-60-02	FINISHING MATERIALS
SOPM 20-60-04	MISCELLANEOUS MATERIALS

- C. Bushing Replacement (145, 170) (IPL Figure 1)

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

- (1) Remove the old bushings.
- (2) Refinish per REPAIR 3-1, Paragraph 2.D..
- (3) Install replacement bushings per SOPM 20-50-03 with wet sealant, A00247.

- D. Refinish

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

- (1) Fitting (140, 165) – Chromic acid anodize and apply primer, C00259 (F-18.13); but no primer in bores for bushings. Material: Al alloy.
- (2) Bracket Assembly (110, 150) – Apply enamel coating, C00700 (F-14.9813, which replaces SRF-14.9813); but no enamel in bores for bushings.

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REPAIR 3-1

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## COMPONENT MAINTENANCE MANUAL

### HINGE ASSEMBLY - REPAIR 4-1

65C30882-1, -2

#### 1. General

- A. This procedure tells how to repair the hinge assembly.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for the item numbers.

#### 2. Repair procedures

- A. Consumable Materials

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

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS 5-95
C00259	Primer - Chemical And Solvent Resistant Finish, Epoxy Resin	BMS10-11, Type I
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 20-50-03	BEARING AND BUSHING REPLACEMENT
SOPM 20-60-02	FINISHING MATERIALS
SOPM 20-60-04	MISCELLANEOUS MATERIALS

- C. Bushing Replacement (750, 755)

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

- (1) Remove the old bushings.
- (2) Refinish per REPAIR 4-1, Paragraph 2.D..
- (3) Install replacement bushings per SOPM 20-50-03 with wet sealant, A00247.
- (4) Machine the bushings per REPAIR 4-1, Figure 601.
- (5) Fillet seal bushing (755) flange with sealant, A00247.

- D. Refinish

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

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REPAIR 4-1

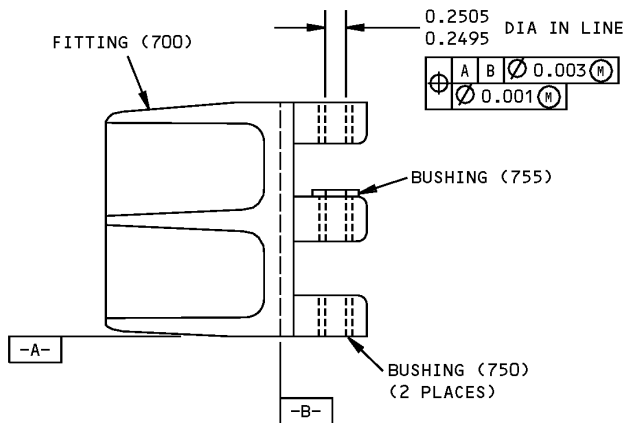
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**COMPONENT MAINTENANCE MANUAL**

- (1) Fitting (745) – Chromic acid anodize and apply primer, C00259 (F-18.13), but no primer in bores for bushings. Material: Al alloy.
- (2) Fitting Assembly (700, 705) – Apply coating, C00700 (F-14.9813, which replaces SRF 14.9813), but no enamel in bores for bushings.



ALL DIMENSIONS ARE IN INCHES

65C30882-1 SHOWN Bushing Replacement  
Figure 601

**32-16-23**

REPAIR 4-1

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## COMPONENT MAINTENANCE MANUAL

### MISCELLANEOUS PARTS REFINISH - REPAIR 5-1

#### 1. General

- A. This procedure tells how to refinish the parts that are not 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 for the correct item numbers.

#### 2. Repair procedures

##### 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
C00319	Primer - Urethane Compatible, Corrosion Resistant	BMS10-79, Type II
C00700	Coating - Exterior Protective Enamel, Gray Gloss Enamel	BMS10-60, Type I, BAC 707
C00767	Coating - Anti-Static Coating	BMS10-21, 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 20-60-02	FINISHING MATERIALS

##### C. Refinish

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

- (1) Repair of these parts is only replacement of the original finish.

**Table 601:** Refinish Details

IPL FIG. & ITEM	MATERIAL	FINISH
Fig. 1		
Cradle fitting (205)	Aluminum alloy	Chromic acid anodize and apply primer, C00259 (F-18.13). Apply enamel coating, C00700 (SRF-14.9813).
Door - bond assy (210, 215)	Fiberglass and graphite cloth, epoxy resin, and fiberglass honey- comb	Prepare the surface (SRF-14.672). Applycoating, C00767 (F-14.685, which replaces SRF-14.68). Apply primer, C00319 (F-19.46). Apply enamel coating, C00700 (SRF-14.9813).

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REPAIR 5-1

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## COMPONENT MAINTENANCE MANUAL

### ASSEMBLY

#### 1. General

- A. This procedure tells how to assemble the fitting assembly.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for the item numbers.

#### 2. Assembly

##### A. Consumable Materials

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

Reference	Description	Specification
A00027	Adhesive - Silicone Rubber, 1 Part, RTV	BAC5010, Type 60
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS 5-95
A01076	Adhesive - Synthetic Rubber	BAC5010, Type 93 (BMS5-95, Class B)
C00767	Coating - Anti-Static Coating	BMS10-21, Type III

##### B. References

Reference	Title
BAC 5000	Fay and Fillet Seals
SOPM 20-10-06	REPAIR OF CONDUCTIVE COATINGS
SOPM 20-11-03	REPAIR OF ELECTRICAL TERMINATIONS AND ELECTRICAL BONDING AREAS
SOPM 20-50-12	APPLICATION OF ADHESIVES

##### C. Assembly Procedures

**CAUTION:** ONLY TITANIUM OR CORROSION RESISTANT STEEL FASTENERS SHALL BE USED THROUGH DOOR-BOND ASSEMBLY (210). SUBSTITUTION WITH ALUMINUM OR PLATED ALLOY STEEL FASTENERS IS NOT ALLOWED AS GALVANIC CORROSION WILL SHORTEN COMPONENT SERVICE LIFE.

- (1) Use standard industry practices for assembly of this component and the following additional procedures.
- (2) Bolts (20, 115) – Apply coating, C00767 to bolt holes per SOPM 20-10-06 and install with wet sealant, A00247. Make a check of the resistance of the bolts per SOPM 20-11-03. Fillet seal with wet sealant, A00247.
- (3) Bolts (15, 75, 120, 155, 175) – Install with wet sealant, A00247.
- (4) Bracket assembly (110, 150) – Fay surface seal with sealant, A00247.
- (5) Identification plate (250) – Bond per SOPM 20-50-12, type 93 per ASSEMBLY, Figure 701.

# 32-16-23

ASSEMBLY

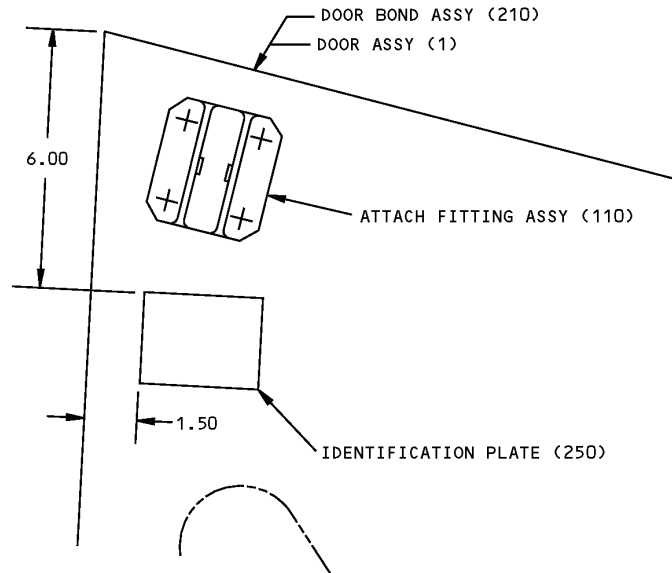
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## COMPONENT MAINTENANCE MANUAL

- (6) Seal plugs (245) – Bond with Type 60 adhesive, A00027 or adhesive, A01076 per SOPM 20-50-12.
- (7) Shims (45, 50, 55, 85, 90, 95, 195, 200) – Install with sealant, A00247 per BAC 5000.
- (8) Collars (40, 80, 135) – Fillet seal with sealant, A00247 per BAC 5000.
- (9) Bolts (220) – Fillet seal with sealant, A00247 per BAC 5000.



ALL DIMENSIONS ARE IN INCHES

Location of Identification Plate  
Figure 701

# 32-16-23

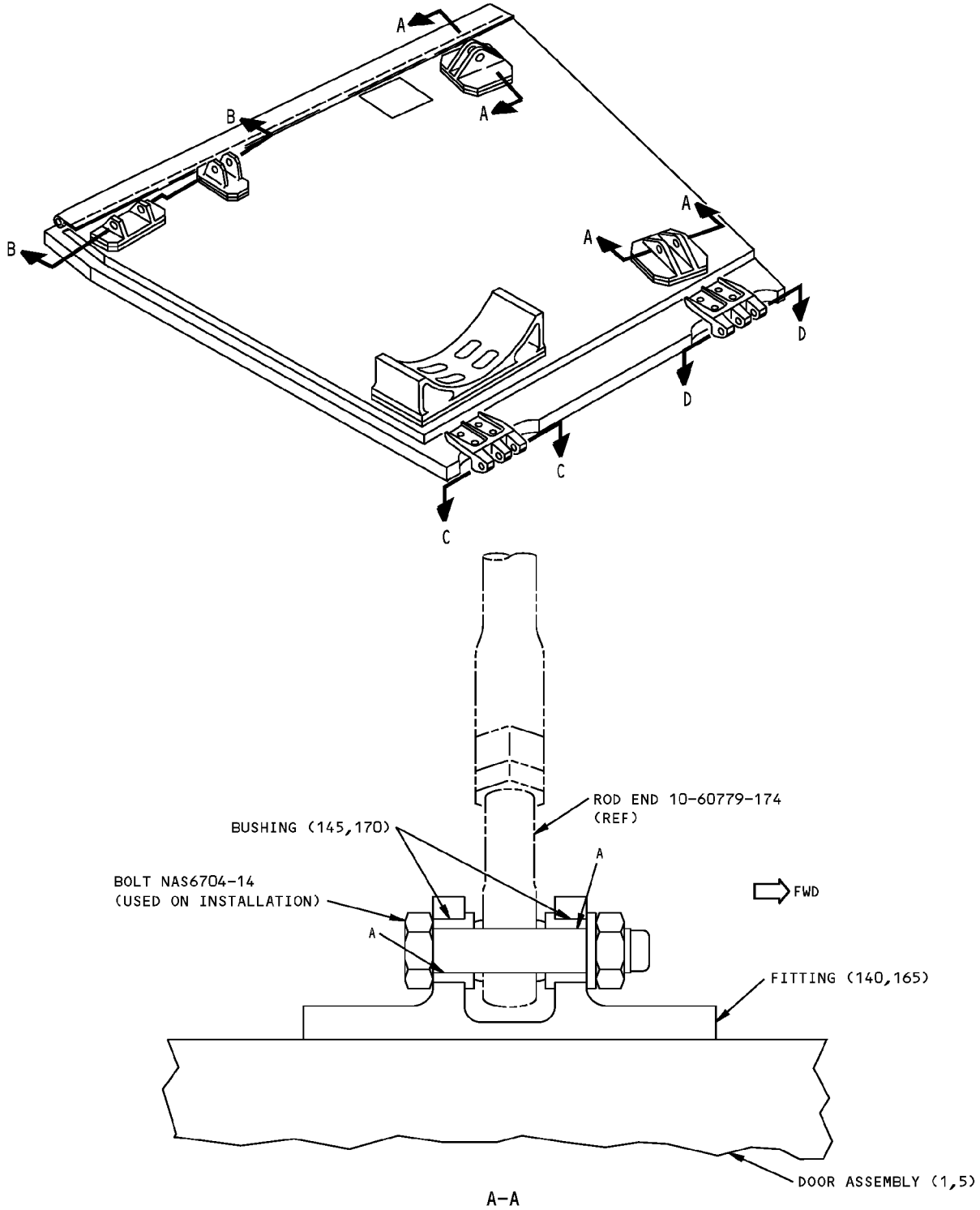
ASSEMBLY

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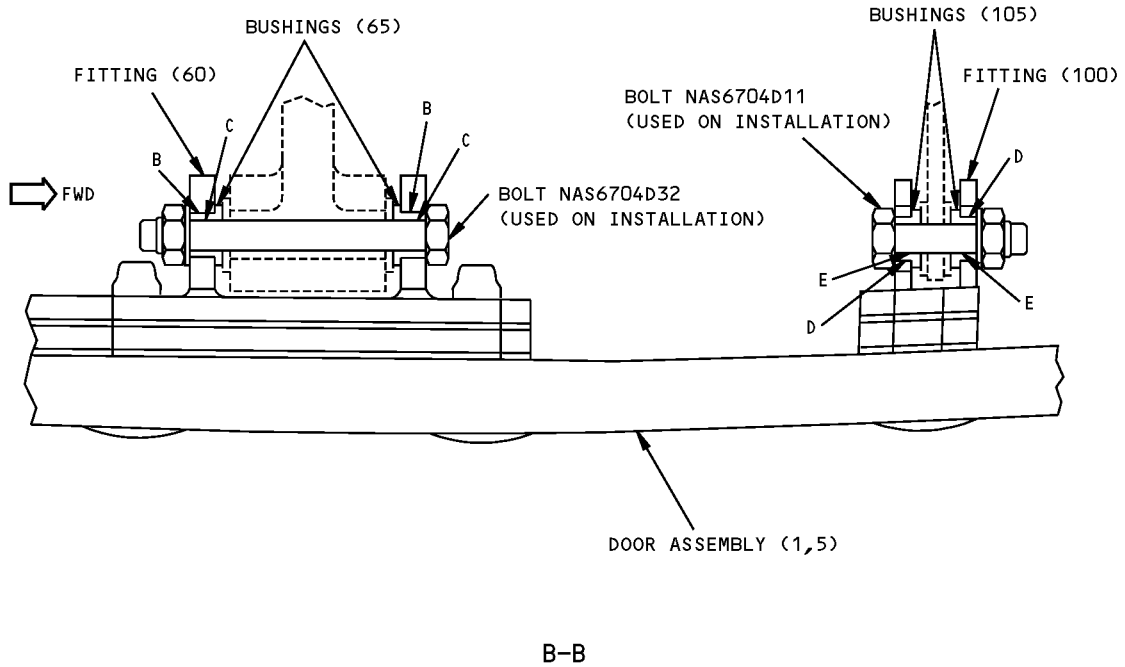
# COMPONENT MAINTENANCE MANUAL

## FITS AND CLEARANCES



Fits and Clearances  
Figure 801 (Sheet 1 of 4)

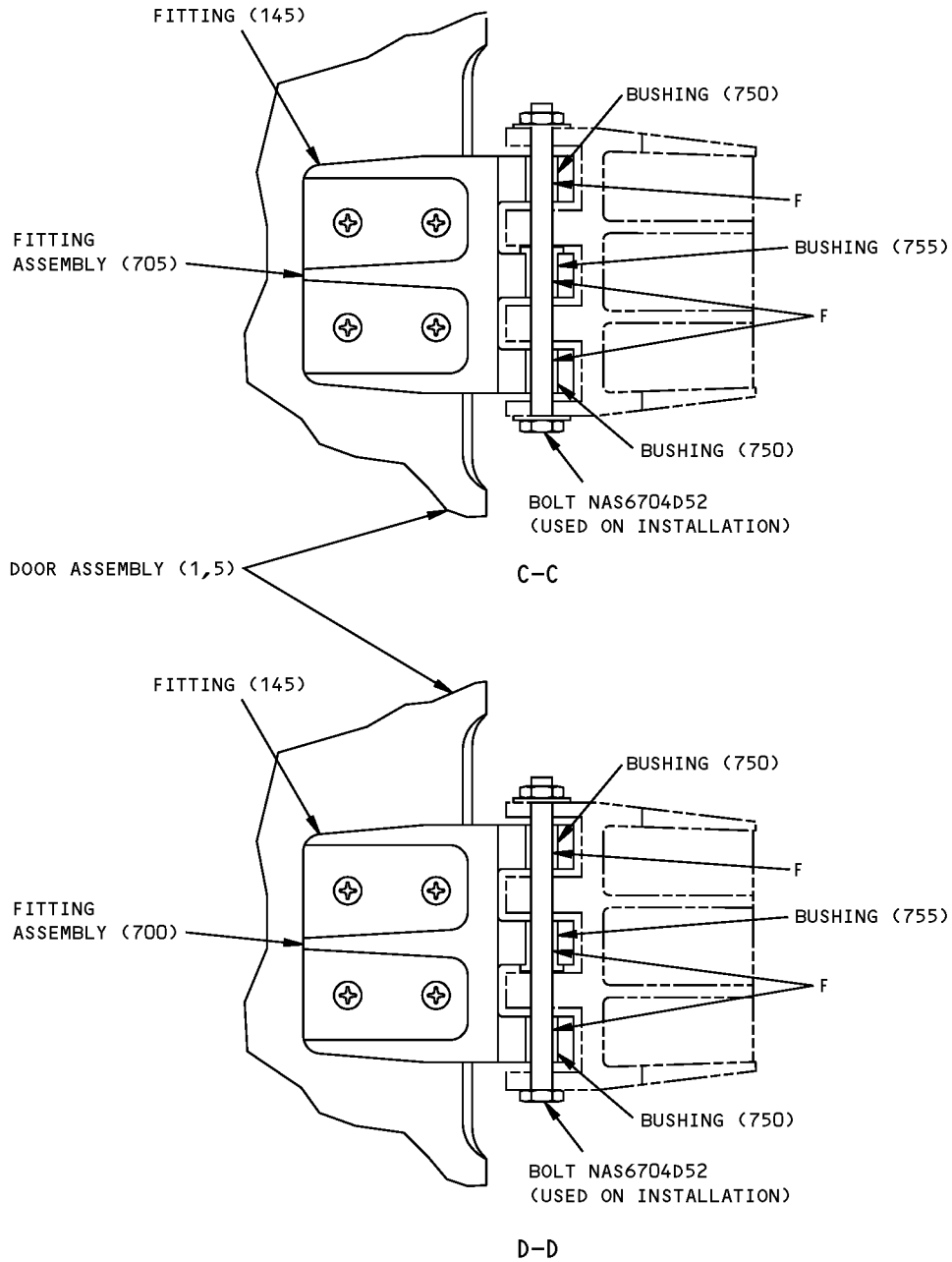
COMPONENT MAINTENANCE MANUAL



ALL ITEM NUMBERS REFER TO IPL FIG. 1

Fits and Clearances  
Figure 801 (Sheet 2 of 4)





# COMPONENT MAINTENANCE MANUAL







Fits and Clearances  
Figure 801 (Sheet 3 of 4)



## COMPONENT MAINTENANCE MANUAL

Ref Letter Fig.801	Mating Item No.	IPL Fig. No.	Design Dimension				Service Wear Limit		
			Dimensions		Assembly Clearance		Dimension Limits		Maximum Allowable Clearance
			Min	Max	Min	Max	Min	Max	
A	ID 145,170 OD 	1	0.2500 0.2485	0.2515 0.2495	0.0005	0.0030	0.2555 0.2455	0.0050	
B	ID 60 OD 65	1	0.3748 0.3757	0.3754 0.3761	-0.0013	-0.0003	0.3755 0.3756	-0.0002	
C	ID 65 OD 	1	0.2495 0.2485	0.2505 0.2495	0.0000	0.0020	0.2535 0.2455	0.0040	
D	ID 100 OD 105	1	0.3748 0.3757	0.3754 0.3761	-0.0013	-0.0003	0.3755 0.3756	-0.0002	
E	ID 105 OD 	1	0.2495 0.2485	0.2505 0.2495	0.0000	0.0020	0.2535 0.2455	0.0050	
F	ID 750,755 OD 	1	0.2495 0.2485	0.2505 0.2495	0.0000	0.0020	0.2535 0.2455	0.0040	

ALL DIMENSIONS ARE IN INCHES

-  BOLT NAS6704-14 (USED ON INSTALLATION)
-  BOLT NAS6704D32 (USED ON INSTALLATION)
-  BOLT NAS6704D11 (USED ON INSTALLATION)
-  BOLT NAS6704D52 (USED ON INSTALLATION)

Fits and Clearances  
Figure 801 (Sheet 4 of 4)

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FITS AND CLEARANCES  
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**COMPONENT MAINTENANCE MANUAL**

**SPECIAL TOOLS, FIXTURES, AND EQUIPMENT**

**(NOT APPLICABLE)**

**32-16-23**

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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## 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.

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## COMPONENT MAINTENANCE MANUAL

### NUMERICAL INDEX

PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
10-60754-482		1	240	1
65C30882-1		1	700	1
65C30882-2		1	705	1
65C30882-3		1	745	1
65C33219-1		1	1	RF
65C33219-10		1	235B	1
65C33219-2		1	5	RF
65C33219-3		1	235	1
65C33219-4		1	245	2
65C33219-7		1	1A	RF
65C33219-8		1	5A	RF
65C33219-9		1	235A	1
65C33220-23		1	210	1
65C33220-24		1	215	1
65C33220-35		1	210A	1
65C33220-36		1	215A	1
69-37867-20		1	105	1
69-37867-23		1	65	2
69-42372-10		1	140	1
69-42372-9		1	110	1
69-42374-7		1	150	1
69-42374-8		1	165	1
69-77211-1		1	10	1
69-77211-2		1	60	1
69-77212-1		1	205A	1
69-77212-3		1	205	1
69-77213-1		1	70	1
69-77213-2		1	100	1
69-77326-1		1	195	1
69-77326-2		1	200	1
69-77326-3		1	45	1
69-77326-4		1	50	1
69-77326-5		1	55	1
69-77326-6		1	85	1

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## COMPONENT MAINTENANCE MANUAL

PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
69-77326-7		1	90	1
69-77326-8		1	95	1
AN960JD416		1	125	1
		1	720	4
BACB20NN5K22		1	175	4
BACB28U4B048		1	750	2
BACB28W4B046		1	755	1
BACB28X4M014		1	145	2
BACB28X4M019		1	170	2
BACB30LR4-13		1	115	1
BACB30LR4-20		1	20	1
BACB30NN3K13		1	220	16
BACB30VG8K12		1	120	3
BACB30VG8K18		1	155	4
BACB30VG8K19		1	15	3
		1	75	2
BACB30VGBK12		1	710	4
BACC30AG8		1	40	3
		1	80	2
		1	135	3
		1	160	4
BACC30M8		1	735	4
BACN10JD4ASU		1	730	1
BACN10JN3CD		1	225	14
BACN10KB3CFD		1	230	2
BACW104DP		1	725	1
BACW10CA104CC		1	25	1
BACW10CA104CV		1	30	1
BACW10CA5CC		1	180	4
BACW10CA5CV		1	185	4
MS24665-153		1	740	1
MS27253-1		1	250A	1
MS27253-C1		1	250	1
NAS1805-4L		1	35	1
		1	130	1

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**COMPONENT MAINTENANCE MANUAL**

<b>PART NUMBER</b>	<b>AIRLINE PART NUMBER</b>	<b>FIGURE</b>	<b>ITEM</b>	<b>UNITS PER ASSEMBLY</b>
NAS1805-5L		1	190	4
NAS6704D52		1	715	1

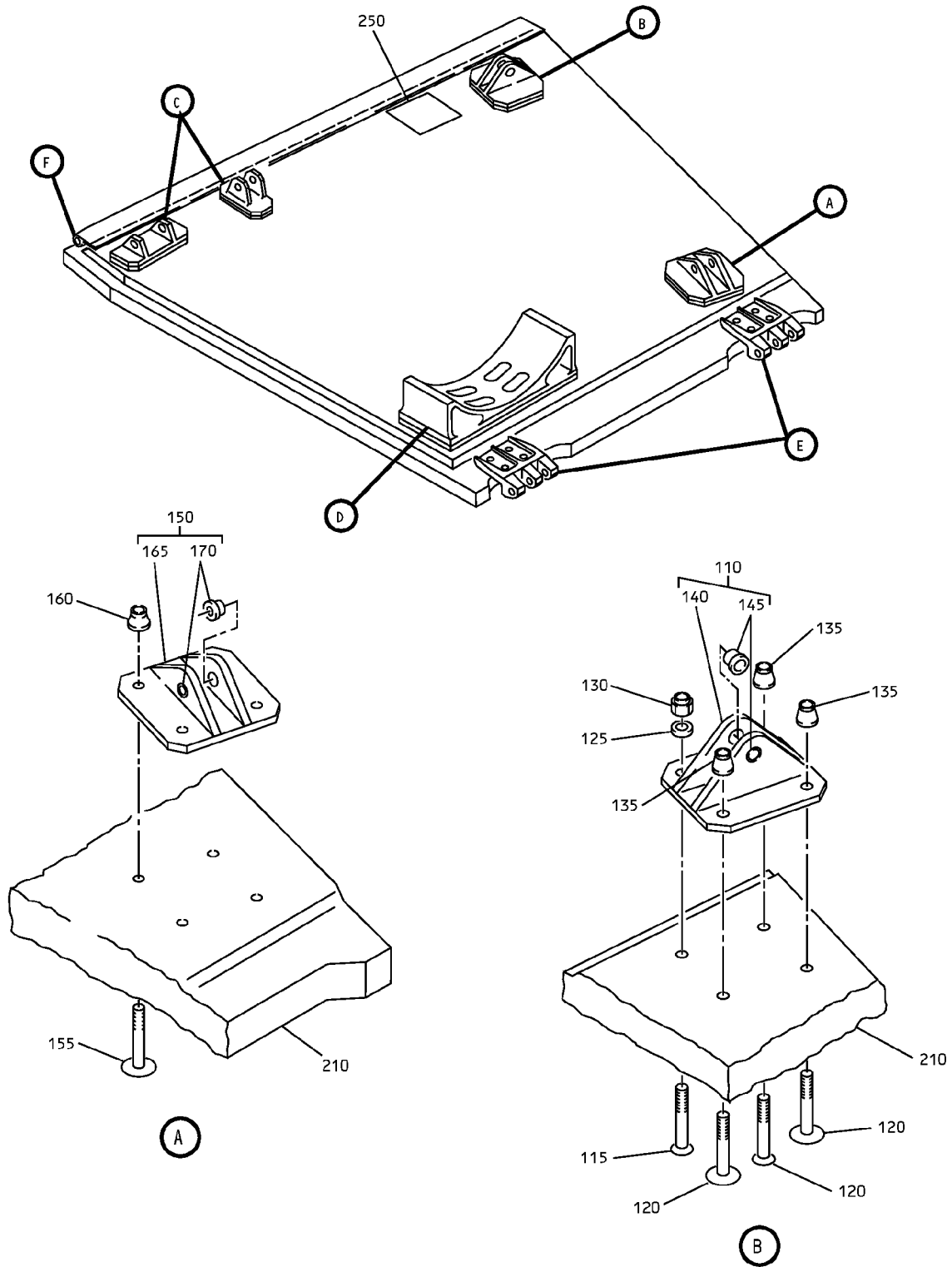
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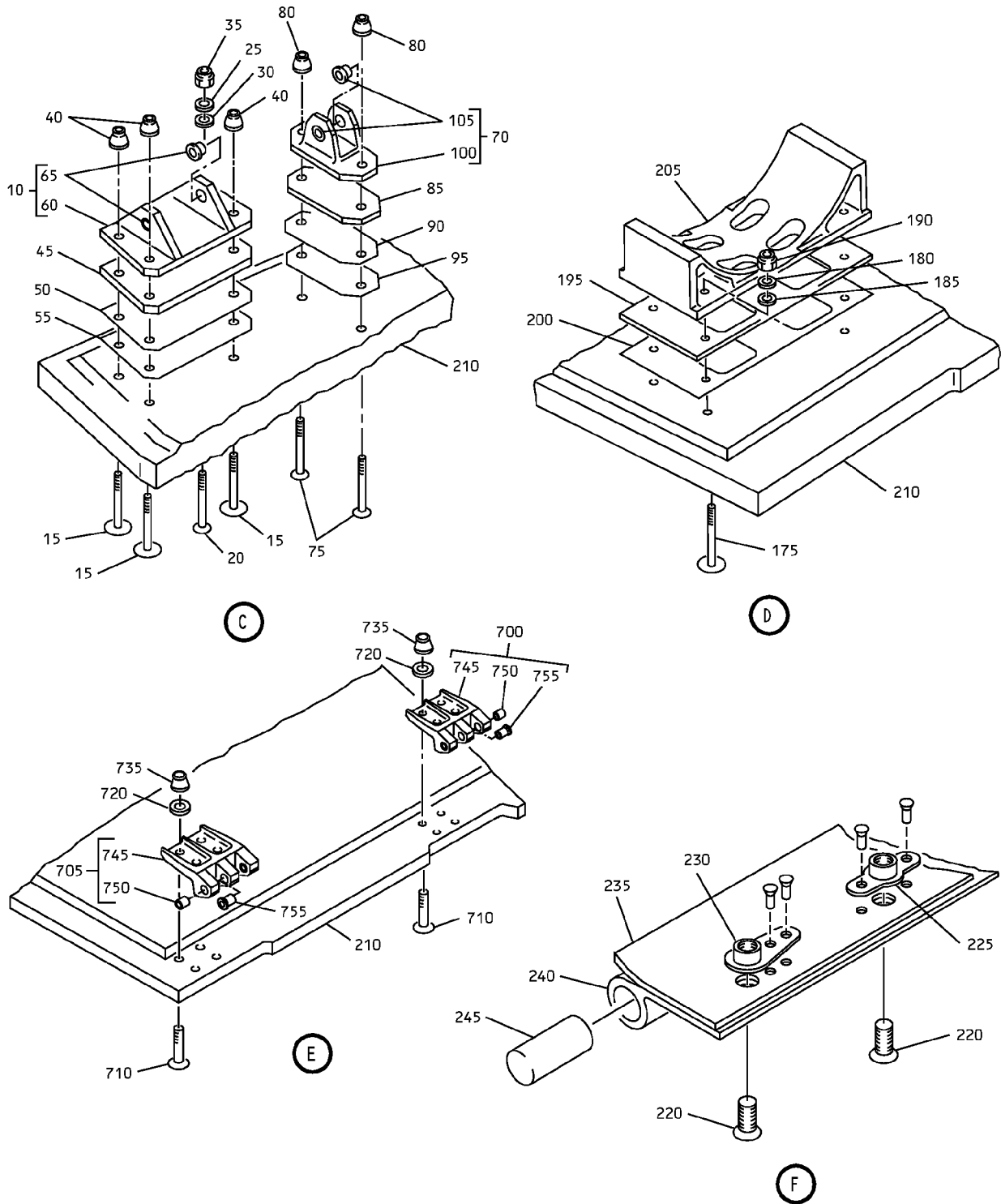
COMPONENT MAINTENANCE MANUAL



MLG Center Door Assembly  
IPL Figure 1 (Sheet 1 of 2)

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MLG Center Door Assembly  
 IPL Figure 1 (Sheet 2 of 2)

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
1-											
1	65C33219-1									A	RF
1A	65C33219-7									C	RF
-5	65C33219-2									B	RF
5A	65C33219-8									D	RF
10	69-77211-1										1
15	BACB30VG8K19										3
20	BACB30LR4-20										1
25	BACW10CA104CC										1
30	BACW10CA104CV										1
35	NAS1805-4L										1
40	BACC30AG8										3
45	69-77326-3										1
50	69-77326-4										
55	69-77326-5										1
60	69-77211-2										1
65	69-37867-23										2
70	69-77213-1										1
75	BACB30VG8K19										2
80	BACC30AG8										2
85	69-77326-6										1
90	69-77326-7										1

-Item not Illustrated

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY
			1	2	3	4	5	6	7		
1-											
95	69-77326-8		.	SHIM							1
			-----*								
100	69-77213-2		..	FITTING							1
105	69-37867-20		..	BUSHING							
110	69-42372-9		.	BRACKET ASSY, CRADLE SUPPT ATTACHING PART							1
115	BACB30LR4-13		.	BOLT							1
120	BACB30VG8K12		.	BOLT							3
125	AN960JD416		.	WASHER							1
130	NAS1805-4L		.	NUT							1
135	BACC30AG8		.	COLLAR							3
140	69-42372-10		..	FITTING							1
145	BACB28X4M014		..	BUSHING							2
150	69-42374-7		.	BRACKET ASSY ATTACHING PARTS							1
155	BACB30VG8K18		.	BOLT							4
160	BACC30AG8		.	COLLAR							4
			-----*								
165	69-42374-8		..	FITTING							1
170	BACB28X4M019		..	BUSHING							2
175	BACB20NN5K22		.	BOLT							4
180	BACW10CA5CC		.	WASHER							4
185	BACW10CA5CV		.	WASHER							4
190	NAS1805-5L		.	NUT							4
195	69-77326-1		.	SHIM							1
200	69-77326-2		.	SHIM							1
205	69-77212-3		.	CRADLE-FITTING							1
-205A	69-77212-1		.	CRADLE-FITTING (OPT ITEM 205)							1
210	65C33220-23		.	BOND ASSY					A		1
210A	65C33220-35		.	BOND ASSY					C		1
215	65C33220-24		.	BOND ASSY					B		1

-Item not Illustrated

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## COMPONENT MAINTENANCE MANUAL

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE							USAGE CODE	UNITS PER ASSY	
			1	2	3	4	5	6	7			
1-												
215A	65C33220-36		.	BOND	ASSY					D	1	
220	BACB30NN3K13		.	BOLT							16	
225	BACN10JN3CD		.	NUTPLATE							14	
230	BACN10KB3CFD		.	NUTPLATE							2	
235	65C33219-3		.	SEAL	RETAINER					A, B	1	
235A	65C33219-9		.	SEAL	RETAINER					C	1	
235B	65C33219-10		.	SEAL	RETAINER					D	1	
240	10-60754-482		.	SEAL							1	
245	65C33219-4		.	SEAL	PLUG						2	
250	MS27253-C1		.	ID	PLATE (OPT ITEM 250A)					A, B	1	
250A	MS27253-1		.	ID	PLATE					C, D	1	
				INSTALLATION PARTS								
700	65C30882-1			HINGE ASSY (USER WITH MLG INNER DOOR ASSEMBLY 65C28178-29 AND -30) (REFER TO CMM 32-16-12)								1
705	65C30882-2			HINGE ASSY (USER WITH MLG INNER DOOR ASSEMBLY 65C28178-29 AND -30) (REFER TO CMM 32-16-12)								1
				ATTACHING PARTS								
710	BACB30VGBK12			BOLT								4
715	NAS6704D52			BOLT								1
720	AN960JD416			WASHER								4
725	BACW104DP			WASHER								1
730	BACN10JD4ASU			NUT								1
735	BACC30M8			COLLAR								4
740	MS24665-153			COTTER PIN								1
				----- * -----								
745	65C30882-3		.	FITTING (USED ON ITEMS 700,705)								1
750	BACB28U4B048		.	BUSHING								2
755	BACB28W4B046		.	BUSHING								1

-Item not Illustrated

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