

 **BOEING**
COMPONENT
MAINTENANCE MANUAL

TO: ALL HOLDERS OF RAM AIR TURBINE ASSEMBLY COMPONENT MAINTENANCE MANUAL
29-21-05

REVISION NO. 2 DATED MAR 01/00

HIGHLIGHTS

All data formerly in manual 29-21-01 is included in this manual 29-21-05.

Pages which have been added or revised are outlined below together with the highlights of the revision. Remove and insert the affected pages as listed and enter Revision No. and date on the Record of Revision Sheet. All data formerly in manual 29-21-01 is included in this manual 29-21-05.

CHAPTER/SECTION

AND PAGE NO.

DESCRIPTION OF CHANGE

TITLE PAGE

Added Ram Air Turbine Assembly 258T7100-29, -32, -34 per latest engineering drawing which use ram turbine S258T7100-22, incorporating PRR 12900-105.

1

TR & SB RECORD

1

REPAIR 3-1

601-602

1006-1007,1009-1028

REPAIR-GEN

Edited without technical change.

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901

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HIGHLIGHTS

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RAM AIR TURBINE ASSEMBLY

PART NUMBERS 258T7100-7,-8,-11 THRU -14,-16,
-17,-19,-20,-22,-26,-28,
-29,-32,-34

COMPONENT MAINTENANCE MANUAL
WITH
ILLUSTRATED PARTS LIST

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REVISION RECORD

- Retain this record in front of manual. On receipt of revision, insert revised pages in the manual, and enter revision number, date inserted and initial.

REVISION NUMBER	REVISION DATE	DATE FILED	BY	REVISION NUMBER	REVISION DATE	DATE FILED	BY


BOEING
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TEMPORARY REVISION AND SERVICE BULLETIN RECORD

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVE	DATE OF INCORPORATION INTO MANUAL
29-16 29-17		PRR B10337 PRR VDCT004 PRR VDCT0269 PRR VDCT0274 PRR B11745 PRR B12079 PRR B12514 PRR B12900-105	JUL 10/82 JUL 10/82 JAN 10/84 JAN 10/84 OCT 10/84 OCT 10/84 OCT 01/93 OCT 01/93 OCT 01/93 MAR 01/00

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INTRODUCTION

The instructions in this manual provide the information necessary to perform maintenance functions ranging from simple checks and replacement to complete shop-type repair.

This manual is divided into separate sections:

- | | |
|--|------------------------------|
| 1. Title Page | 4. List of Effective Pages |
| 2. Record of Revisions | 5. Table of Contents |
| 3. Temporary Revision &
Service Bulletin Record | 6. Introduction |
| | 7. Procedures & IPL Sections |

Refer to the Table of Contents for the page location of applicable sections.

The beginning of the REPAIR section includes a list of the separate repairs, a list of applicable standard Boeing practices, and an explanation of the True Position Dimensioning symbols used.

An explanation of the use of the Illustrated Parts List is provided in the Introduction to that section.

All weights and measurements used in the manual are in English units, unless otherwise stated. When metric equivalents are given they will be in parentheses following the English units.

Design changes, optional parts, configuration differences and Service Bulletin modifications create alternate part numbers. These are identified in the Illustrated Parts List (IPL) by adding an alphabetical character to the basic item number. The resulting item number is called an alpha-variant. Throughout the manual, IPL basic item number references also apply to alpha-variants unless otherwise indicated.

Verification:

Disassembly
Assembly

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INTRODUCTION

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RAM AIR TURBINE ASSEMBLY

DESCRIPTION AND OPERATION

1. Description and Operation

A. The ram air turbine assembly is composed of the ram air turbine, a DC motor and rotary actuator to deploy it, a frame assembly, and deployment arm and door link assemblies. The ram air turbine assembly provides auxiliary hydraulic power to flight controls in the event of loss of normal hydraulic power sources.

2. Leading Particulars (approximate) (retracted position)

Length -- 52 inches
Height -- 29 inches
Width -- 24 inches
Weight -- 121 pounds

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DESCRIPTION & OPERATION

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DISASSEMBLY

NOTE: Disassemble this component only as necessary to complete fault isolation, determine the serviceability of parts, perform required repairs, and restore the unit to serviceable condition.

1. Disassembly (IPL Fig. 1)

- A. Remove washer (290), nut (295), and door link assembly (285) from ram air turbine (390D).

NOTE: Do not disassemble door link assembly (285) unless necessary for repair or replacement.

- B. Remove bolts (130A, 220A), washers (135, 140A, 225, 230A), plain bushings (145, 235) and nuts (150A, 240A) and deployment arm assembly (245) from rotary actuator assembly (155A) and ram air turbine (390D).

NOTE: Do not remove bearings (250, 255) or lube fittings (260) from deployment arm assembly (245) unless necessary for repair or replacement.

- C. Remove pivot bolts (160, 165A), washers (170, 175), spacer (180) and nuts (185) and ram air turbine (390D) from frame assembly (190A).

NOTE: Refer to manufacturer's instruction for repair details of ram air turbine (390D).

- D. Remove bolts (105A, 110A), washers (115, 120A), nuts (125A), motor (5D), rotary actuator assembly (155A), and plates (100A or 101A) from frame assembly (190A).

NOTE: Do not remove bushings (195, 200, 205, 210) or bracket assembly (211) from frame assembly (190A) unless necessary for repair or replacement.

Do not separate upstop (45), downstop (50), angles (75, 80) from plate unless necessary for repair or replacement.

Refer to CMM 27-81-51 for details of rotary actuator assembly (155A).

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DISASSEMBLY

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CHECK

1. Check all parts for obvious defects in accordance with standard industry practices.
2. Magnetic particle check per 20-20-01 -- Arm (265, IPL Fig. 1), rod end (325), pin (330) and link (355).
3. Penetrant check per 20-20-02 -- Stops (45, 50) and frame (217).

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CHECK
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REPAIR – GENERAL1. Content

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

<u>P/N</u>	<u>NAME</u>	<u>REPAIR</u>
258T7101	FRAME	1-1
258T7102	ARM	2-1
258T7103	LINK, DOOR	3-1
258T7105	END, ROD	4-1
258T7106	PIN	5-1
258T7107	BOLT, PIVOT	6-1
- -	MISC PARTS REFINISH	7-1

2. Standard Practices

- A. Refer to the following standard practices as applicable, for details of procedures in individual repairs.

20-10-01	Repair and Refinish of High Strength Steel Parts
20-30-03	General Cleaning Procedures
20-41-01	Decoding Table for Boeing Finish Codes
20-42-03	Hard Chrome Plating
20-42-05	Bright Cadmium Plating
20-43-01	Chromic Acid Anodizing
20-50-03	Bearing and Bushing Replacement
20-50-07	Lubrication
20-50-08	Application of Bonded Solid Film Lubricants

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3. Materials

NOTE: Equivalent substitutes may be used.

- A. Enamel -- BMS 10-11, type 2, BAC702 white gloss (Ref 20-60-02)
- B. Grease -- MIL-G-23827 (Ref 20-60-03)
- C. Lubricant, dry film -- BMS 3-8 (Ref 20-60-03)
- D. Primer -- BMS 10-11, type 1 (Ref 20-60-02)
- E. Sealant -- BMS 5-95 (Ref 20-60-04)
- F. Film, mylar -- Protex 1321D-3, 223-5 (Ref 20-60-04)

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4. Dimensioning Symbols

A. Standard True Position Dimensioning Symbols used in applicable repair procedures are shown in Fig. 601.

—	STRAIGHTNESS	\oplus	THEORETICAL EXACT POSITION OF A FEATURE (TRUE POSITION)
\square	FLATNESS	\varnothing	DIAMETER
\perp	PERPENDICULARITY (OR SQUARENESS)	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.
//	PARALLELISM	DIM	
\bigcirc	ROUNDNESS	-A-	DATUM
\bigcirc	CYLINDRICITY	\textcircled{M}	MAXIMUM MATERIAL CONDITION (MMC)
\frown	PROFILE OF A LINE	\textcircled{S}	REGARDLESS OF FEATURE SIZE (RFS)
\triangle	PROFILE OF A SURFACE	\textcircled{P}	PROJECTED TOLERANCE ZONE
\odot	CONCENTRICITY		
\equiv	SYMMETRY		
\sphericalangle	ANGULARITY		
\nearrow	RUNOUT		

EXAMPLES

$\text{—} \quad 0.002$	STRAIGHT WITHIN 0.002	$\textcircled{\odot} \text{ C } \varnothing \quad 0.0005$	CONCENTRIC TO C WITHIN 0.0005 DIAMETER (FULL INDICATOR MOVEMENT)
$\perp \text{ B } \quad 0.002$	PERPENDICULAR TO B WITHIN 0.002	$\equiv \text{ A } \quad 0.010$	SYMMETRICAL WITH A WITHIN 0.010
$\parallel \text{ A } \quad 0.002$	PARALLEL TO A WITHIN 0.002	$\sphericalangle \text{ A } \quad 0.005$	ANGULAR TOLERANCE 0.005 WITH A
$\bigcirc \quad 0.002$	ROUND WITHIN 0.002	$\oplus \text{ B } \varnothing \quad 0.002 \textcircled{S}$	LOCATED AT TRUE POSITION WITHIN 0.002 DIA IN RELATION TO DATUM B, REGARDLESS OF FEATURE SIZE
$\bigcirc \quad 0.010$	CYLINDRICAL SURFACE MUST LIE BETWEEN TWO CONCENTRIC CYLINDERS, ONE OF WHICH HAS A RADIUS 0.010 INCH GREATER THAN THE OTHER	$\perp \text{ A } \varnothing \quad 0.010 \textcircled{M}$ $0.510 \textcircled{P}$	AXIS IS TOTALLY WITHIN A CYLINDER OF 0.010-INCH DIAMETER, PERPENDICULAR TO, AND EXTENDING 0.510-INCH ABOVE, DATUM A, MAXIMUM MATERIAL CONDITION
$\frown \text{ A } \quad 0.006$	EACH LINE ELEMENT OF THE SURFACE AT ANY CROSS SECTION MUST LIE BETWEEN TWO PROFILE BOUNDARIES 0.006 INCH APART IN RELATION TO DATUM PLANE A	2.000	EXACT DIMENSION IS 2.000
$\triangle \text{ A } \quad 0.020$	SURFACES MUST LIE WITHIN PARALLEL BOUNDARIES 0.02 INCH APART AND EQUALLY DISPOSED ABOUT TRUE PROFILE	OR 2.000 BSC	

True Position Dimensioning Symbols
Figure 601

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FRAME ASSEMBLY – REPAIR 1-1

258T7101-6, -9, -12, -15

NOTE: Refer to REPAIR-GEN for list of applicable standard practices.

1. Bushing Replacement (IPL Fig. 1, Fig. 601)

- A. Remove bushings (195, 200, 205, 210).
- B. Shrink-fit bushings (195, 200, 210) per 20-50-03 except use wet BMS 5-95 sealant.
- C. Machine bore of bushing (210) to dimensions shown (Fig. 601).
- D. Break bushing (210) edges both ends 0.005-0.015 inch x 40-50 degrees chamfer after final machining.
- E. Install bushing (205) per 20-50-03 except use wet BMS 5-95 sealant.
- F. Machine bore of bushing (205) to dimensions shown (Fig. 601).
- G. Break bushing (205) edges both ends 0.005-0.015 inch x 40-50 degrees chamfer after final machining.
- H. Machine bores of bushings (195, 200) to dimensions shown (Fig. 601).
- I. Fillet seal bushings per Fig. 601 using BMS 5-95 sealant.

2. Refinish

A. Frame (217)

- (1) To protect noted surfaces (Fig. 601) for electrical bonding, mask surfaces per following procedure:
 - (a) Solvent clean per 20-30-03.
 - (b) Mask with Protex 1321D-3 or 223-5 mylar film.
 - (c) Examine through the mask for freewater or stains after anodizing and prior to painting. Any freewater or 25% stained area will require rework.

NOTE: Acceptable masks will stay in place until installation.

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- (d) If required, rework mask as follows: remove mask, dry surface with cheesecloth, apply new mask and wipe down.
- (2) Chromic acid or sulfuric acid anodize (F-17.05). Apply one coat BMS 10-11, type 1 primer (F-20.02) and one coat BMS 10-11, type 2 enamel, BAC702 white gloss (F-21.03) all over, except omit finishes from bushing holes. Material: Aluminum alloy.
- (3) On 258T7101-12 and -15 assemblies only, chemical treat per F-17.15 the surfaces that were masked after the surrounding area has been anodized, primed and enameled.

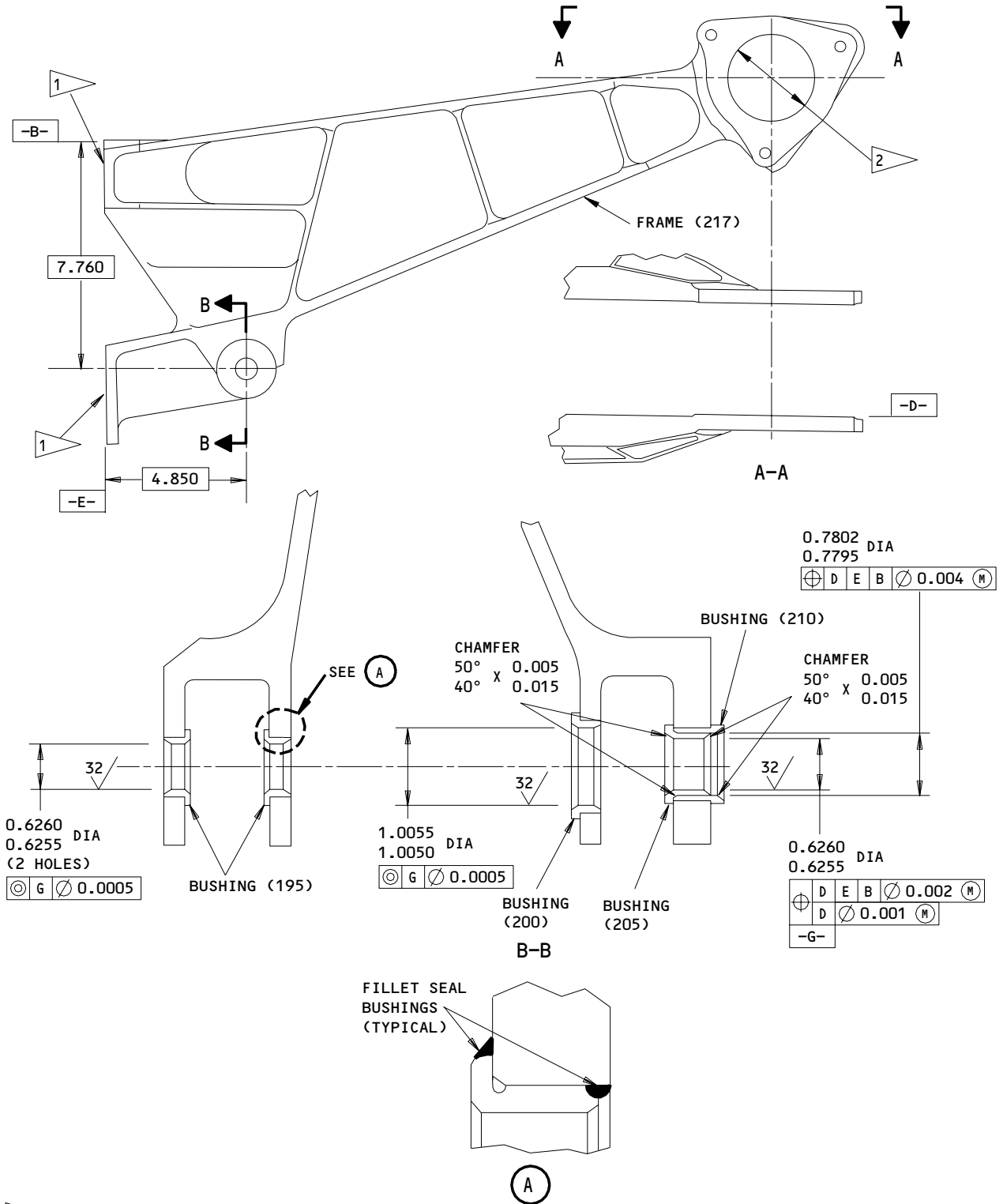
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- 1 MASK SURFACES BEFORE REFINISHING
- 2 NO PAINT OR PRIMER THIS SURFACE

258T7101-6,-9

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

Frame Assembly - Bushing Replacement
 Figure 601 (Sheet 1)

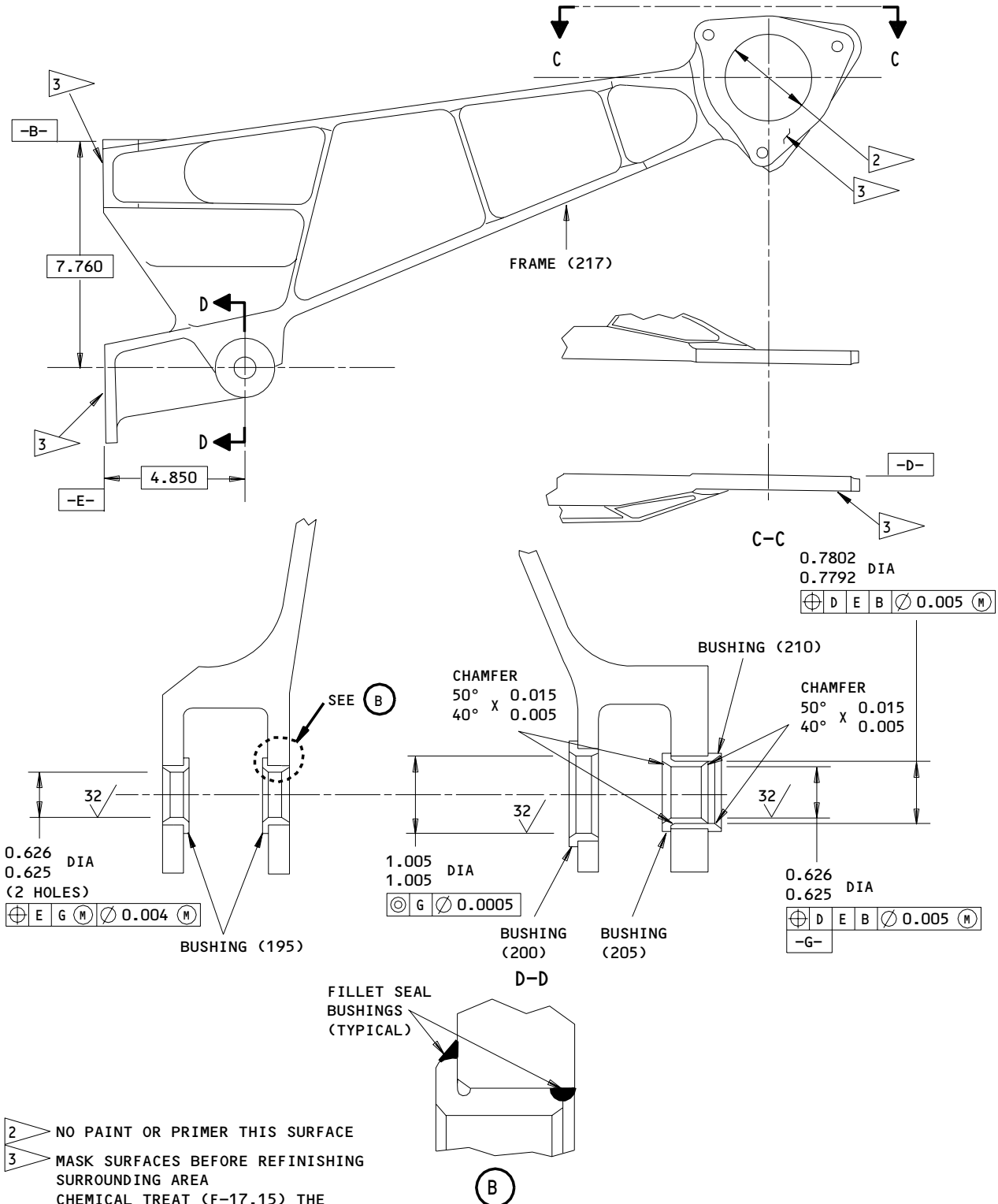
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ITEM NUMBERS REFER TO IPL FIG. 1
 ALL DIMENSIONS ARE IN INCHES

258T7101-12,-15

Frame Assembly - Bushing Replacement
 Figure 601 (Sheet 2)

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REPAIR 1-1

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ARM ASSEMBLY - REPAIR 2-1

258T7102-1

NOTE: Refer to REPAIR-GEN for list of applicable standard practices.

1. Bearing Replacement (IPL Fig. 1)

- A. Remove bearings (250, 255)
- B. Install bearings and roller swage per 20-50-03.
- C. After installation of bearings, apply MIL-G-23827 grease to lube fittings (260) until grease appears on bearing ID.

2. Refinish

- A. Arm (265) -- Passivate (F-17.09). Material: 15-5PH CRES, 180 ksi min.

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DOOR LINK ASSEMBLY - REPAIR 3-1

258T7103-1, -2

NOTE: Refer to REPAIR-GEN for list of applicable standard practices.

1. Bearing Replacement (IPL Fig. 1, Fig. 601)

- A. Remove pin (330), washer (335), and nut (340).
- B. Remove bearing (345A)
- C. Install bearing and roller swage per 20-50-03.
- D. Install pin (330), washer (335), and nut (340). Tighten nut (340) to 800-1000 lb-in.
- E. After installing bearing apply MIL-G-23827 grease to lube fitting (350) until grease appears on bearing ID.

2. Rod End Replacement (IPL Fig. 1, Fig. 601)

- A. Remove rod end assembly (300), washer (305) and nut (310).
- B. Apply dry film lubricant BMS 3-8 per 20-50-08 to nut (310) and rod end assembly (300) threads.
- C. Install new rod end assembly on link (355) with washer (305) and nut (310).
- D. Position and adjust distance between centerlines of bearing of rod end assembly (300) and bearing (345A) to 10.696-11.196 inch.

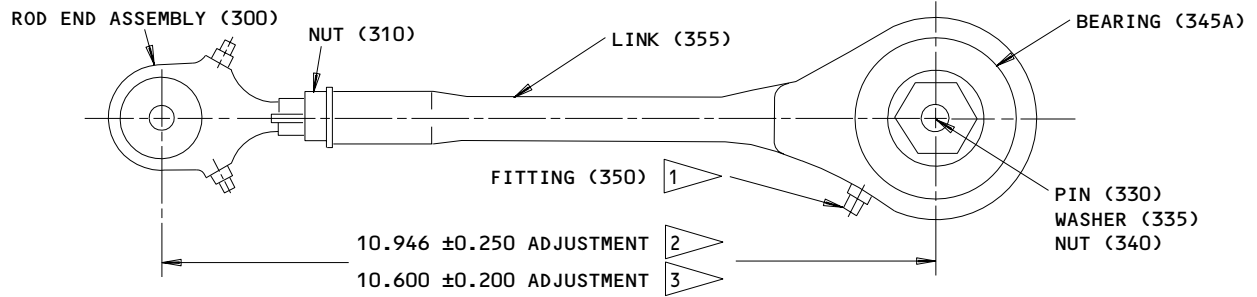
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- 1 APPLY MIL-G-23827 GREASE
- 2 258T7103-1
- 3 258T7103-2

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

Door Link Assembly - Replacement Details
 Figure 601

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ROD END ASSEMBLY - REPAIR 4-1

258T7105-1, -3

NOTE: Refer to REPAIR-GEN for list of applicable standard practices.

1. Bearing Replacement (IPL Fig. 1)

- A. Remove bearing (315A).
- B. Install bearing and roller swage per 20-50-03.
- C. After installing bearing, apply MIL-G-23827 grease to lube fittings (320) until grease appears on bearing ID.

2. Refinish

- A. Rod end (325) -- Passivate (F-17.09). Material: 15-5PH CRES, 180-200 ksi.

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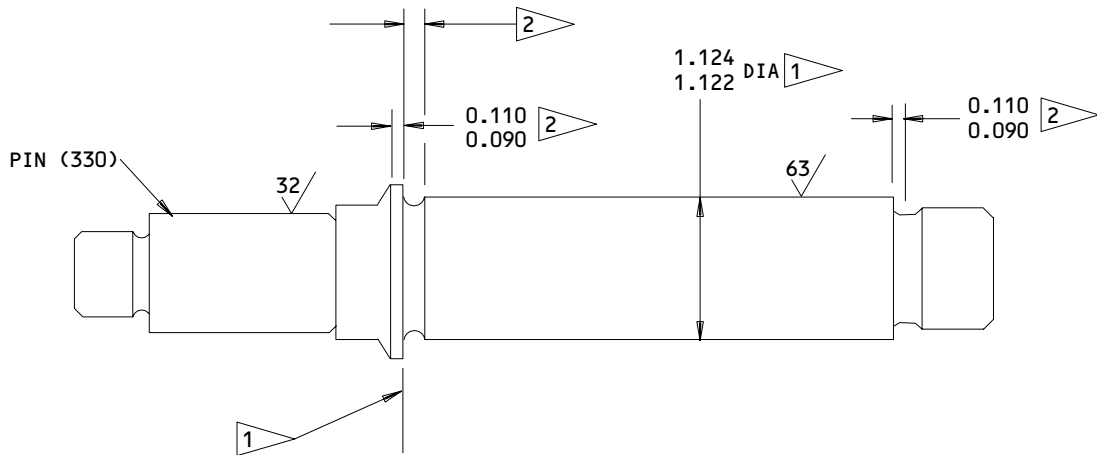
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PIN - REPAIR 5-1

258T7106-1

1. Plating Repair

NOTE: Repair consists of restoration of original finish. Refer to Refinish instructions, Fig. 601 and to REPAIR-GEN for list of applicable standard practices.



REFINISH

PASSIVATE (F-17.09) ALL OVER.
 CADMIUM PLATE (F-15.06) ON SURFACES
 NOTED BY 1

MATERIAL: 15-5P4 CRES, 180-200 KSI

ALL DIMENSIONS ARE IN INCHES

DIMENSIONS APPLY AFTER PLATING

2 PLATING RUNOUT PERMISSIBLE IN THIS AREA

Pin - Plating Repair
 Figure 601

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REPAIR 5-1

01

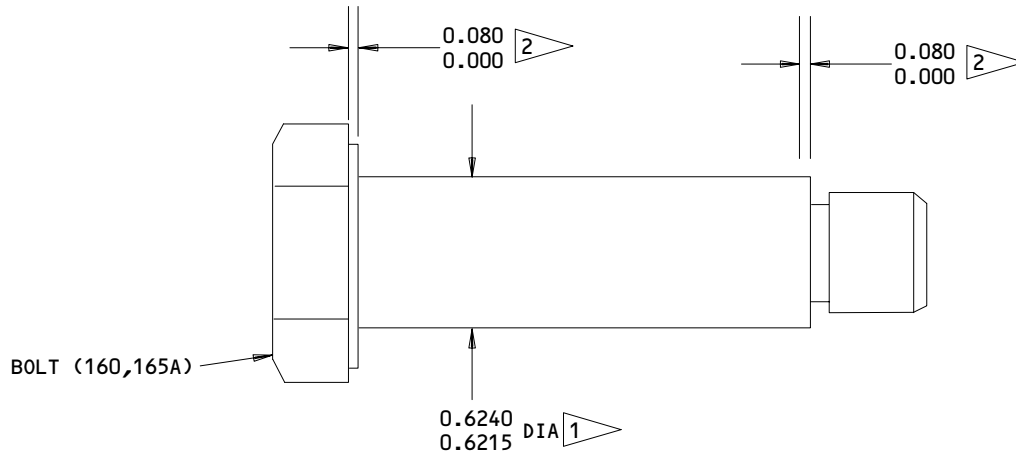
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PIVOT BOLT - REPAIR 6-1
 258T7107-1,-3

1. Plating Repair

NOTE: Repair consists of restoration of original finish. Refer to Refinish instructions, Fig. 601 and to REPAIR-GEN for list of applicable standard practices.



REFINISH

CHROME PLATE (F-15.34) SINGLE PLATING THICKNESS
 (0.0005-0.001 THICK) ON SURFACE NOTED BY 1
 DO NOT GRIND.

MATERIAL: A286 CRES

ALL DIMENSIONS ARE IN INCHES

2 PLATING RUNOUT

Bolt - Plating Repair
 Figure 601

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REPAIR 6-1

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MISC PARTS REFINISH - REPAIR 7-1

1. Repair of parts listed in Fig. 601 consists of restoration of the original finish.

IPL FIG. & ITEM	MATERIAL	FINISH
<u>Fig. 1</u>		
Stop (45,50), Angle (75,80)	Al alloy	Chromic acid anodize and apply one coat BMS 10-11, type 1 primer (F-18.13). Apply one coat BMS 10-11, type 2 enamel, BAC702 white gloss (F-21.03) all over.
Plate (100A,101A), Bracket (103)	Al alloy	Chemical treat and apply one coat BMS 10-11, type 1 primer (F-18.06). Apply one coat BMS 10-11, type 2 enamel, BAC702 white gloss (F-21.03) all over.
Plate (100D)	Al alloy	Chemical treat per MIL-C-5541, class 3 (F-17.15). Apply one coat of aluminized lacquer (F-20.01). Apply one coat of BMS 10-11, Type 2 enamel, color 702 white gloss (F-21.03). Mask areas as shown in Fig. 601.
Pad (102)	Al alloy	Chromic acid anodize and apply one coat BMS 10-11, type 1 primer (F-18.13). Apply BMS 10-60 BAC707 gray gloss enamel (SRF-14.9813).
Bracket (214)	Al alloy	Chemical treat and apply one coat BMS 10-11, type 1 primer (F-18.06) all over.
Link (355)	115-5 PH CRES 180 ksi min	Passivate (F-17.09).

Refinish Details
Figure 601

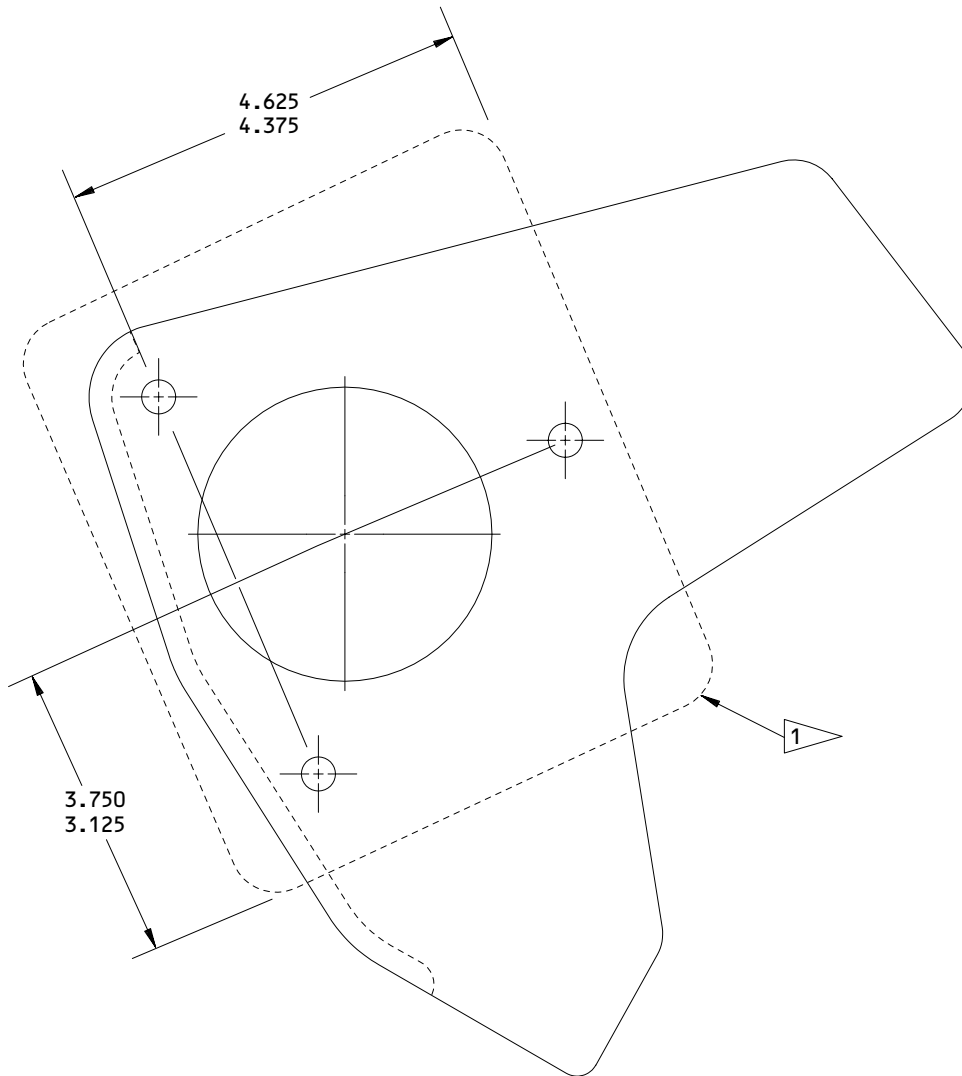
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1 MASK FRONT AND BACK FACE OF PLATE AS SHOWN AFTER CHEMICAL TREATING PER (F-17.15).

ALL DIMENSIONS ARE IN INCHES

258T7109-11
Plate
Figure 601

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REPAIR 7-1

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ASSEMBLY1. Materials

NOTE: Equivalent substitutes may be used.

- A. Grease -- BMS 3-24 (Ref 20-60-03)
- B. Grease -- MIL-G-23827 (Ref 20-60-03)
- C. Deleted.
- D. Deleted.
- E. Sealant -- BMS 5-95 (Ref 20-60-04)

2. Equipment

- A. Bonding Meter -- Model T-477N, Avtron Manufacturing Inc., 10409 Meech Ave., Cleveland, OH 44105.

3. Assembly (IPL Fig. 1, Fig. 701)

- A. Assemble plates (100A or 101A), angles (75, 80), and stops (45, 50), if applicable, to dimension shown in Fig. 701.
- B. Prepare both surfaces indicated by flag 1 (Fig. 701) for electrical bond per 20-11-03. Position parts assembled in par. A over frame assembly (190A).

NOTE: Bond resistance must not exceed 0.0002 ohms.

- C. Position rotary actuator assembly (155A) on frame assembly (217) and install bolts (110A), washers (115, 120A) and nuts (125A). Install washer (115) under bolthead.
- D. Mate splines of motor (5D) and rotary actuator assembly (155A). Install bolts (105A), washers (115, 120A) and nuts (125A). Install washer (115) under bolthead.
- E. Fillet seal entire joint of plates (100A or 101A) with BMS 5-95 sealant.
- F. Deleted.

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- G. Install door link assembly (285) on ram air turbine (390D) with washer (290) and nut (295) using BMS 3-24 grease to all surfaces of nut (295). Tighten nut (295) to 2000-2400 lb-in.
 - H. Install ram air turbine (390D) on frame assembly (190A) with pivot bolts (160, 165A), spacer (180), washers (170, 175) and nuts (185) using BMS 3-24 grease. Tighten nuts (185) to 400-500 lb-in.
 - I. Install deployment arm assembly (245) on rotary actuator assembly (155A) and ram air turbine (390D) with bolts (130A, 220A), washers (135, 140A, 225, 230A), bushings (145, 235) and nuts (150A, 240A) using BMS 3-24 grease. Tighten nut (150A) to 160-180 lb-in and nut (240A) to 500-575 lb-in.
 - J. After assembly, lubricate all bearings and bushings with MIL-G-23827 grease thru grease fittings. Rotate parts to ensure full coverage. Wipe off excess grease.

NOTE: Length of door link assembly will be adjusted in the airplane.
 - K. Attach bracket (103) to upstop (45) with string. For 258T7100-7, -11, -13, -17 and -20, attach pad (102) to downstop (50) with string. Pad (102) and bracket (103) will be used for switch installation in the airplane.
4. Prepare and store component in accordance with standard industry practices.

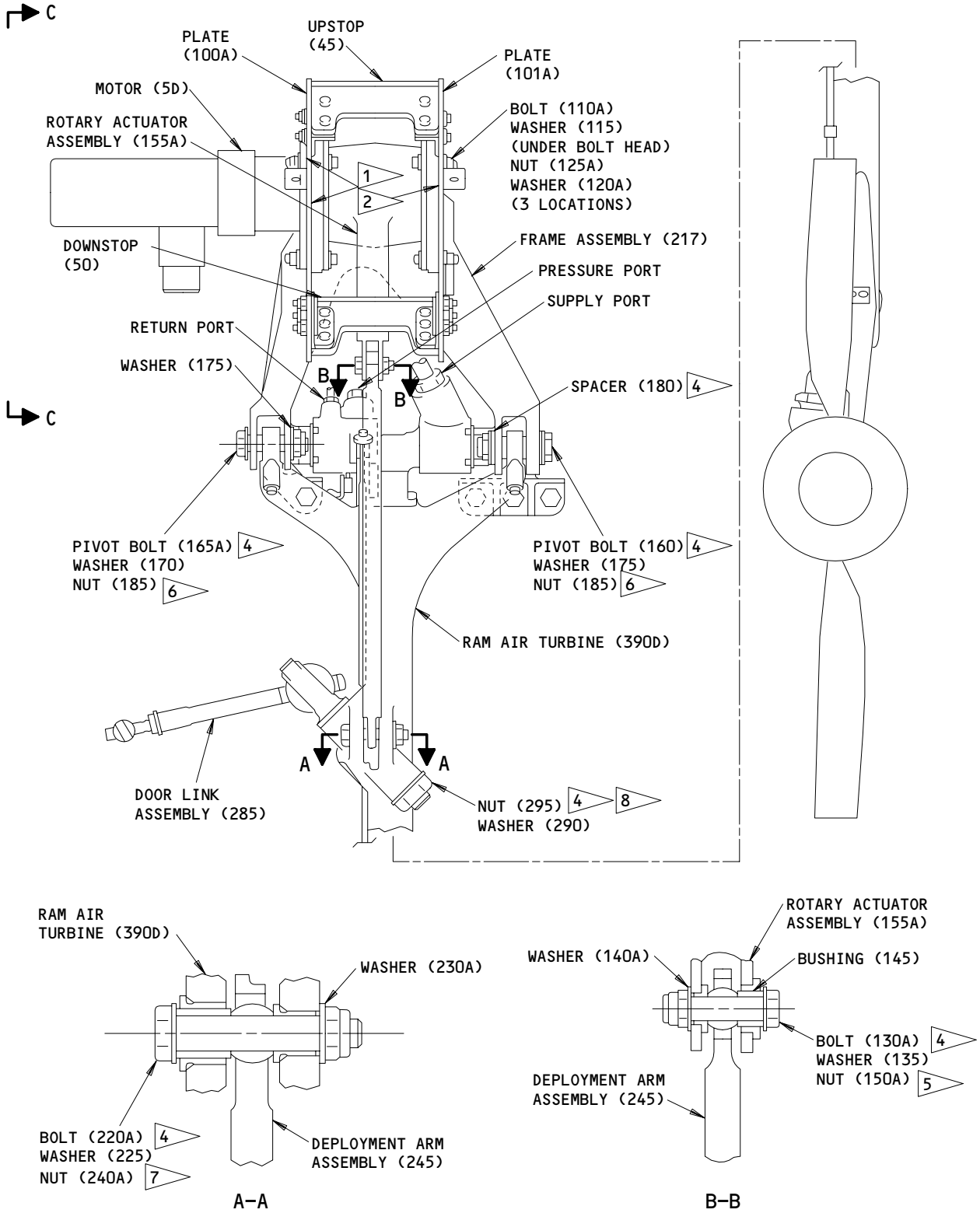
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ASSEMBLY

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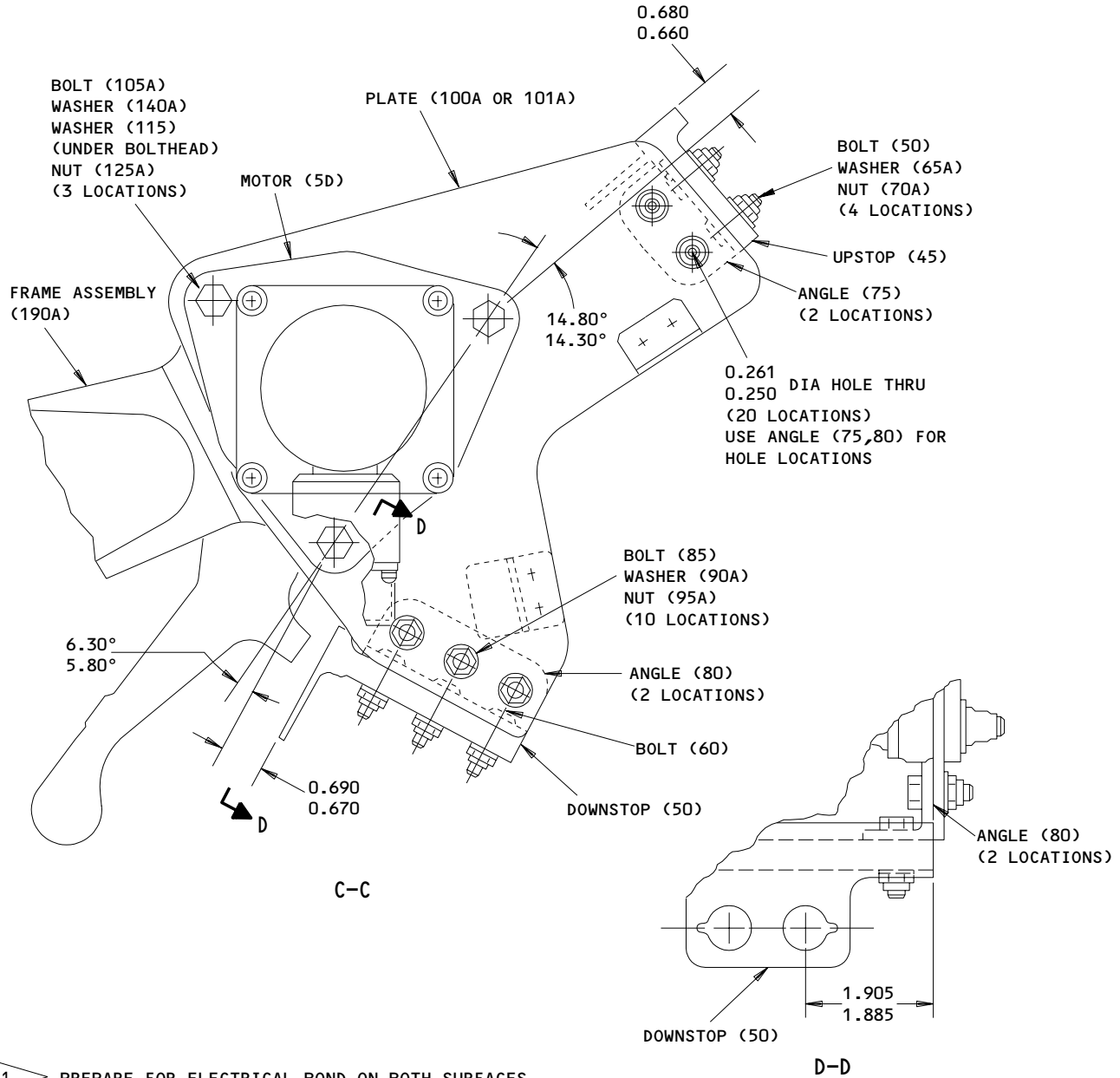


Ram Air Turbine Assembly
 Figure 701 (Sheet 1)

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01.1



- 1 ▷ PREPARE FOR ELECTRICAL BOND ON BOTH SURFACES AS SHOWN IN SOPM 20-11-05
- 2 ▷ FILLET SEAL ENTIRE JOINT WITH BMS 5-95 SEALANT
- 4 ▷ INSTALL WITH BMS 3-24 GREASE ON ALL SURFACES
- 5 ▷ TIGHTEN NUT (150A) TO 160-180 LB-IN.
- 6 ▷ TIGHTEN NUT (185) TO 400-500 LB-IN.
- 7 ▷ TIGHTEN NUT (240A) TO 500-575 LB-IN.
- 8 ▷ TIGHTEN NUT (295) TO 2000-2400 LB IN.

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

Ram Air Turbine Assembly
 Figure 701 (Sheet 2)

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FOR TORQUE VALUES OF STANDARD FASTENERS. REFER TO 20-50-01			
ITEM NO. FIG. 1	NAME	TORQUE	
		POUND-INCHES	POUND-FEET
150	NUT	160-180	
185	NUT	400-500	
240	NUT	500-575	
295	NUT	2000-2400	
340	NUT	800-1000	

Torque Table
Figure 801

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FITS AND CLEARANCES
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SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

NOTE: Equivalent substitutes may be used.

1. Special Tools

- A. Bonding Meter -- Model T-477W, Avtron Manufacturing Inc., 10409 Meech Ave., Cleveland, OH 44105 (V01014)

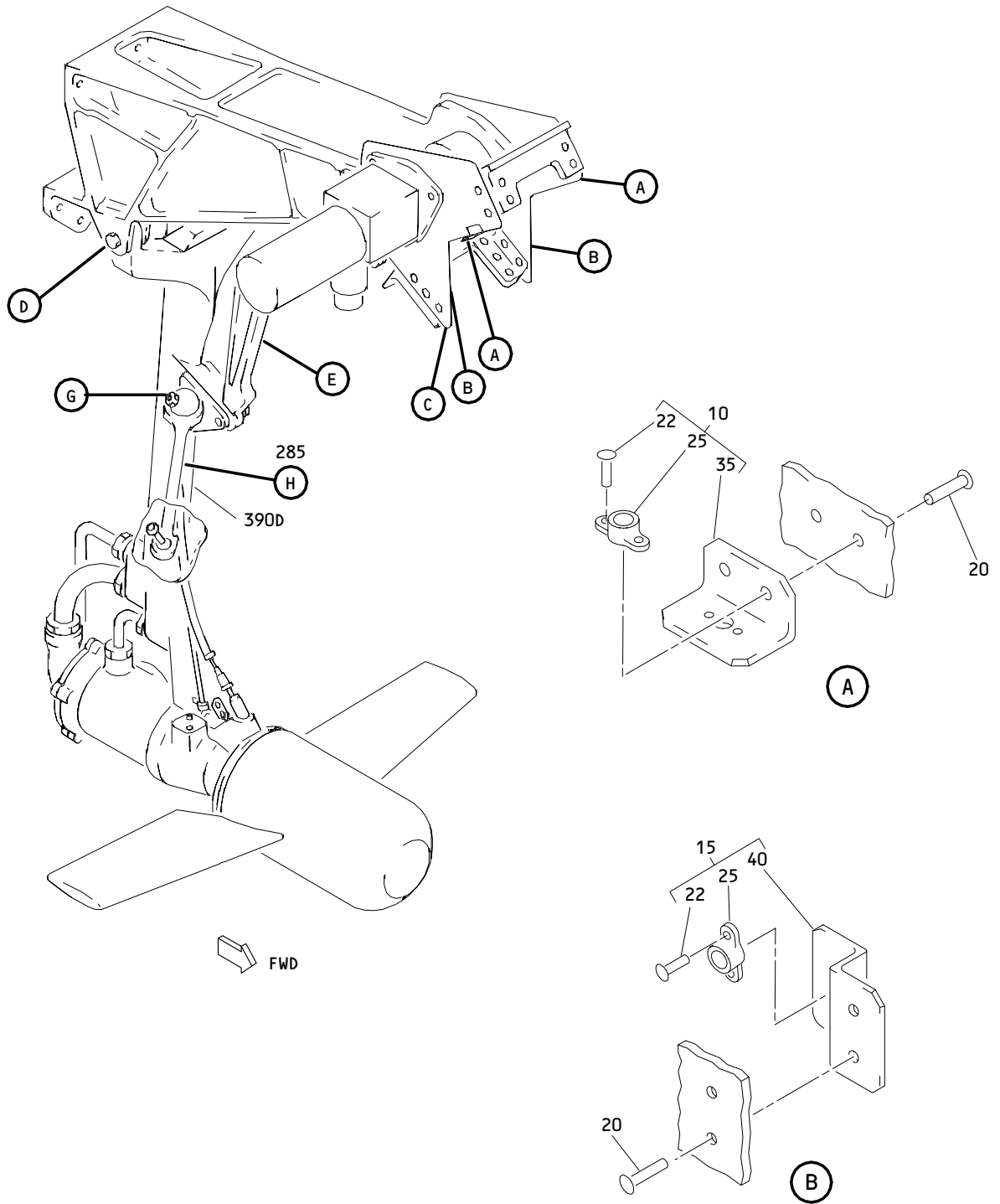
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SPECIAL TOOLS

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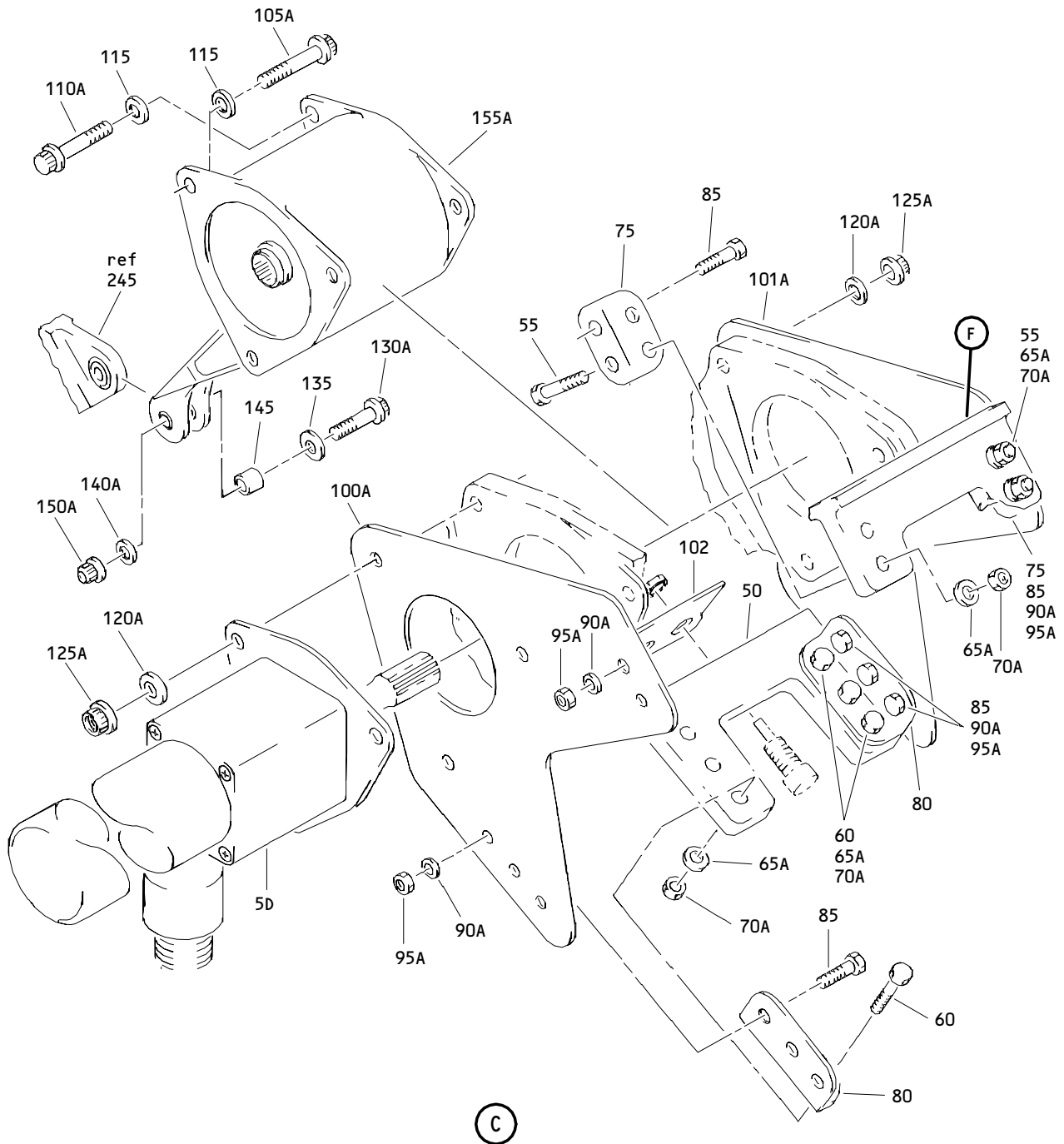
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Ram Air Turbine Assembly
Figure 1 (Sheet 1)

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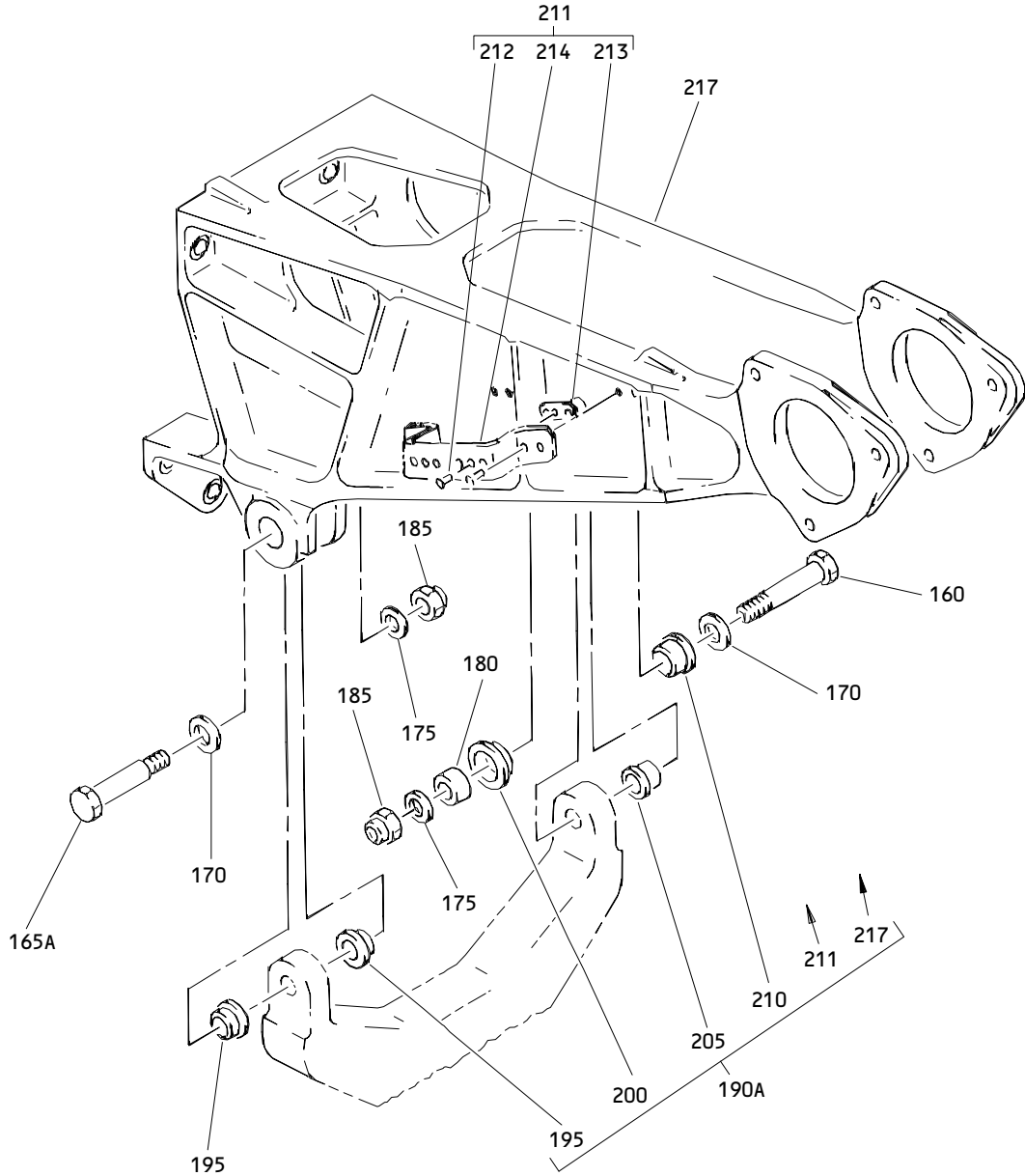
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Ram Air Turbine Assembly
 Figure 1 (Sheet 2)

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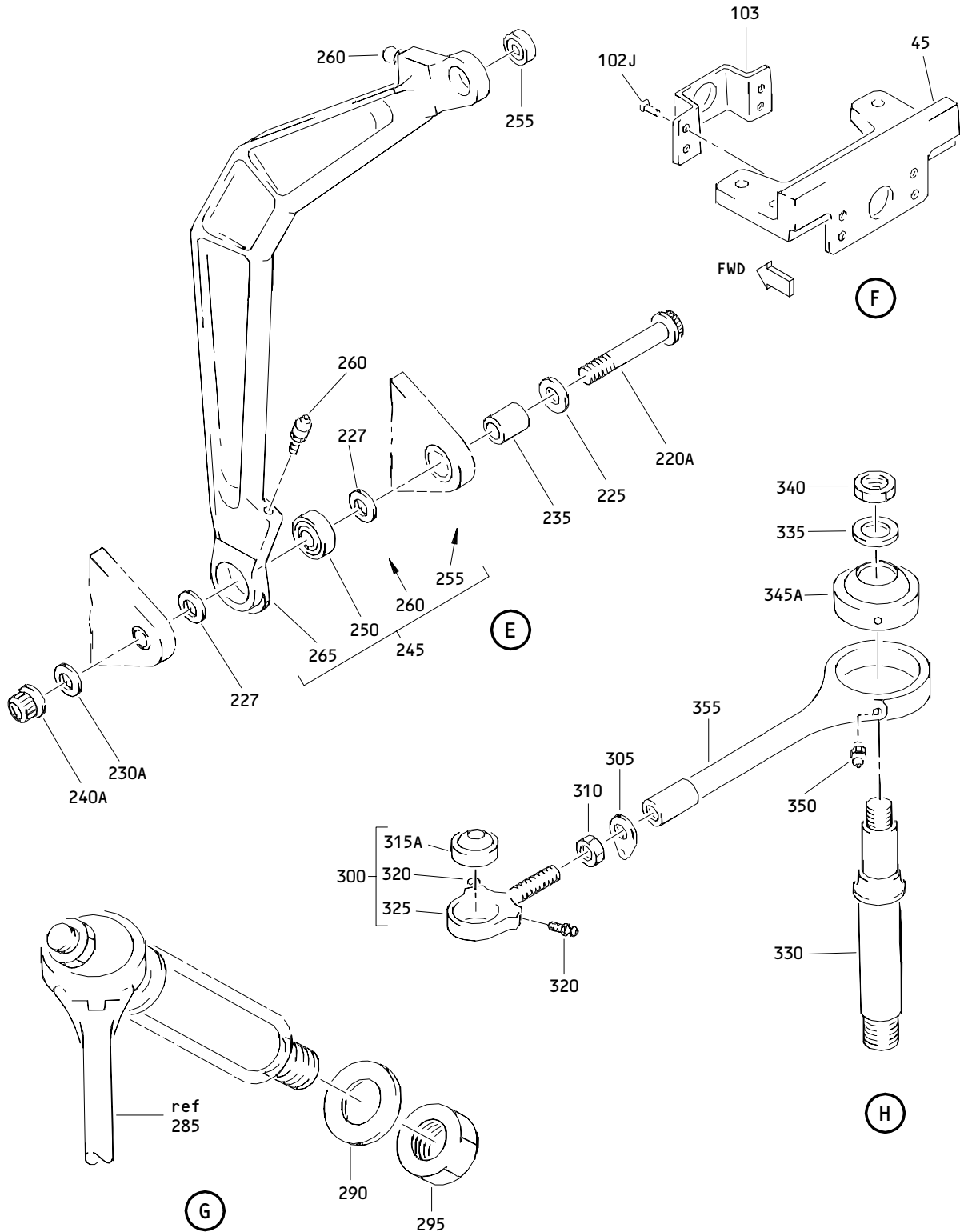


(D)

Ram Air Turbine Assembly
Figure 1 (Sheet 3)

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Ram Air Turbine Assembly
 Figure 1 (Sheet 4)

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ILLUSTRATED PARTS LIST

1. This section lists and illustrates replaceable or repairable component parts. The Illustrated Parts Catalog contains a complete explanation of the Boeing part numbering system.

2. Indentures show parts relationships as follows:

Assembly

Detail Parts for Assembly

Subassembly

Attaching Parts for Subassembly

Detail Parts for Subassembly

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

3. One use code letter (A, B, C, etc.) is assigned in the EFF CODE column for each variation of top assembly. All listed parts are used on all top assemblies except when limitations are shown by use code letter opposite individual part entries.

4. Letter suffixes (alpha-variants) are added to item numbers for optional parts, Service Bulletin modification parts, configuration differences (except left- and right-hand parts), product improvement parts, and parts added between two sequential item numbers. The alpha-variant is not shown on illustrations when appearance and location of all variants of the part is the same.

5. Service Bulletin modifications are shown by the notations PRE SB XXXX and POST SB XXXX.

A. When a new top assembly part number is assigned by Service Bulletin, the notations appear at the top assembly level only. The configuration differences at detail part level are then shown by use code letter.

B. When the top assembly part number is not changed by the Service Bulletin, the notations appear at the detail part level.

6. Parts Interchangeability

Optional
(OPT)

The parts are optional to and interchangeable with other parts having the same item number.

Supersedes, Superseded By
(SUPSDS, SUPSD BY)

The part supersedes and is not interchangeable with the original part.

Replaces, Replaced By
(REPLS, REPLD BY)

The part replaces and is interchangeable with, or is an alternate to, the original part.

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VENDORS

S0352 NIPPON MINIATURE BEARING CO LTD
TOKYO, JAPAN

02758 NETWORKS ELECTRONIC CORP U S BEARING DIV
9750 DE SOTO AVENUE
CHATSWORTH, CALIFORNIA 91311-4409

06710 LAMSON AND SESSIONS CO THE VALLEY-TODECO
12975 BRADLEY AVENUE
SYLMAR, CALIFORNIA 91342-3830

09455 BFM TRANSPORT DYNAMICS CORP
3131 WEST SEGERSTROM AVENUE PO BOX 1953
SANTA ANA, CALIFORNIA 92702-1953

11815 CHERRY AEROSPACE FASTENERS DIV OF TEXTRON
1224 EAST WARNER AVENUE PO BOX 2157
SANTA ANA, CALIFORNIA 92707-0157

15653 KAYNAR TECHNOLOGY KAYNAR DIV
800 SOUTH STATE COLLEGE BLVD PO BOX 3001
FULLERTON, CALIFORNIA 92634-3001

15860 NEW HAMPSHIRE BALL BEARINGS, INCORPORATED ASTRO DIVISION
155 LEXINGTON AVENUE
LACONIA, NEW HAMPSHIRE 03246-2937

16746 SPECLINE INCORPORATED
2230 MOUTON DR
CARSON CITY, NV 89706

27238 BRISTOL INDUSTRIES
630 EAST LAMBERT ROAD PO BOX 630
BREA, CALIFORNIA 92621-4119

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**BOEING**
COMPONENT
MAINTENANCE MANUALVENDORS

50294 NEW HAMPSHIRE BALL BEARINGS INC
9730 INDEPENDENCE AVENUE PO BOX 2515
CHATSWORTH, CALIFORNIA 91311-4323

52828 REPUBLIC FASTENER MFG CORP
1300 RANCHO CONEJO BLVD
NEWBURY PARK, CALIFORNIA 91320-1405

56644 AURORA BEARING CO
970 SOUTH LAKE STREET
AURORA, ILLINOIS 60506-5929

56878 SPS TECHNOLOGIES INC AEROSPACE AND INDUSTRIAL PRODUCTS DIV
HIGHLAND AVENUE
JENKINTOWN, PENNSYLVANIA 19046

62554 SIMMONDS MECAERO FASTENERS INC
1734 SEQUOIA AVENUE
ORANGE, CALIFORNIA 92668

72121 VICKERS ELECTROMECHANICAL DIV
4585 ELECTRONICS PLACE
LOS ANGELES, CALIFORNIA 90039-0185

72962 HARVARD INDUSTRIES INC
3 WERNER WAY SUITE 210
LEBANON, NEW JERSEY 08833

73134 IMO INDUSTRIES INC HEIM BEARINGS DIV
60 ROUND HILL ROAD PO BOX 430
FAIRFIELD, CONNECTICUT 06430

80539 SPS TECHNOLOGIES INC AEROSPACE PRODUCTS DIV
2701 SOUTH HARBOR BOULEVARD PO BOX 1259
SANTA ANA, CALIFORNIA 92702-1259

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VENDORS

81376 SOUTHWEST PRODUCTS COMPANY
2240 BUENA VISTA STREET
IRVINDALE, CALIFORNIA 91706

85495 BRILES MFG CO SEE OMARK INDUSTRIES
PRECISION FASTENING SUB OF OMARK IND INC SEE DEUTSCH
FASTENER CORP V08524
OMARK INDUSTRIES SEE PRECISION FASTENING

92215 FAIRCHILD IND INC FAIRCHILD AEROSPACE FASTENER DIV
3010 W LOMITA BLVD
TORRANCE, CALIFORNIA 90505-5102

97613 SARGENT CONTROLS & AEROSPACE/KAHR BEARING DIV
5675 W BURLINGAME RD
TUCSON, ARIZONA 85743

97928 DEUTSCH FASTENER CORP
3969 PARAMONT BOULEVARD
LAKEWOOD, CALIFORNIA 90712-4193

99167 SUNDSTRAND AVIATION DIVISION OF SUNDSTRAND CORPORATION
4747 HARRISON AVENUE PO BOX 7002
ROCKFORD, ILLINOIS 61125

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 COMPONENT
 MAINTENANCE MANUAL

PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
ABG16V105		1	345B	1
ABG8V4		1	250	1
ABY6-102		1	315D	1
AG8V30		1	250	1
AN960-1016L		1	170	2
AN960-1616L		1	290	1
AN960C1216L		1	335	1
AN960JD416L		1	65A	10
AN960JD516		1	140A	1
AN960JD616L		1	120A	6
AN960JD816		1	230A	1
AN960PJ416L		1	90A	10
ASBY6V6		1	315D	1
BACB10CN8		1	250	1
BACB28AK05-033		1	145	1
BACB28AK08-067		1	235	1
BACB28W10B025		1	195	2
BACB28W16B025		1	200	1
BACB30LE5K15		1	130A	1
BACB30LE6K13		1	110A	3
BACB30LE6K17		1	105A	3
BACB30LE8K29		1	220A	1
BACN10HR5CD		1	150A	1
BACN10HR6CD		1	125A	6
BACN10HR8CD		1	240A	1
BACN10JC12		1	340	1
BACN10JC16		1	295	1
BACN10JC16CD		1	295A	1
BACN10JC8		1	185	2
BACN10JC8CD		1	185A	2
BACN10JP3A		1	25	4
BACN10JP3B		1	25A	4
BACN10KB3F		1	213	2
BACR15BA3AD		1	22	8
		1	212	4
BACR15FT5AD		1	102J	4
BACR15FT5AD7		1	20	8
BACW10BN5AC		1	135	1
BACW10BN6AC		1	115	6
BACW10BN8AC		1	225	1
BACW10P255CF		1	175	2
BH003026CD		1	125A	6
BH00303CM5		1	150A	1
BH00303CM6		1	125A	6
BH00303CM8		1	240A	1

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PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
BLN8-2230		1	250	1
BMNN10HR6CD		1	125A	6
BMN10HRCWD3-6		1	125A	6
BMN10HRCWD3-8		1	240A	1
BMN4122AD3-12		1	340	1
BMN4122AD3-16		1	295	1
BMN4122AD3-8		1	185	2
BMN4122A16		1	295	1
BMN4122A8		1	185	2
BMN4122CPD8-16		1	295A	1
BMN4122CPD8-8		1	185A	2
BMN5024CWD3-6		1	125A	6
BMN5024CWD3-8		1	240A	1
BMN5024CWD35		1	150A	1
BMN5024CWD36		1	125A	6
BMN5024CWD38		1	240A	1
BNG16F244		1	345B	1
BNG8F113		1	250	1
BRF100A3		1	213	2
BRM100A3		1	25A	4
BRM200A3		1	25	4
B12-1479-2		1	345B	1
CR59066CD		1	125A	6
CR60305		1	150A	1
CR60306		1	125A	6
CR60308		1	240A	1
F2000-3		1	213	2
HG8-140		1	250	1
HSBY6-112		1	315D	1
H10-12BAC		1	340	1
H10-1612BAC		1	295	1
H10-8BAC		1	185	2
H51560		1	125A	6
		1	240A	1
H51560-5		1	150A	1
H51560-6		1	125A	6
H51560-8		1	240A	1
H51650-1612BAC		1	295A	1
H51650-8BAC		1	185A	2
H966CD		1	125A	6
KSBG8-57		1	250	1
KSBY6-15		1	315D	1
LHB16051BAC		1	345B	1
MK1000-3BAC		1	25	4
MK2000-3BAC		1	25A	4

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BOEING
 COMPONENT
 MAINTENANCE MANUAL

PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
MS15001-1		1	320	2
		1	350	1
MS15720-1		1	260	2
MS21042L4		1	70A	10
		1	95A	10
M81936-1-5R		1	255	1
NAS1149D0416J		1	65B	10
		1	90B	10
NAS1149D0563J		1	140B	1
NAS1149D0616J		1	120B	6
NAS1149D0863J		1	230B	1
NAS1149F1032P		1	170A	2
NAS1149F1632P		1	290A	1
NAS1515H12		1	227	2
NAS509-8		1	310	1
NAS513-8		1	305	1
NAS6604-10		1	60	6
NAS6604-5		1	85	10
NAS6604-8		1	55	4
NBG8A		1	250	1
NC16G5		1	345B	1
NC8G1		1	250	1
NS103197-02		1	25	4
NS103198-02		1	25A	4
RMA9201M3		1	25	4
RMA9207-3		1	25A	4
RMF9207-3		1	213	2
RMLH22		1	125A	6
RMLH9074-12		1	340	1
RMLH9074-16		1	295	1
RMLH9074-8		1	185	2
SL7108C5		1	150A	1
SL7108C524		1	150A	1
SL7108C6		1	125A	6
SL7108C624		1	125A	6
SL7108C8		1	240A	1
S258T710-10		1	390E	1
S258T710-16		1	390H	1
S258T710-20		1	390K	1
S258T710-22		1	390M	1
S258T710-8		1	390D	1
S258T711-3		1	5D	1
S258T711-4		1	5G	1
S258T711-5		1	5M	1
S258T711-6		1	5P	1

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PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
T8076S1032		1	25	4
T8077S1032		1	25A	4
T8114S1032S		1	213	2
VAL280096CD		1	125A	6
VCU0005D		1	125A	6
VCU0005D5		1	150A	1
VCU0005D8		1	240A	1
VN151A1-02		1	213	2
VN201A1-02		1	25A	4
VN202A1-02		1	25	4
WC6G4		1	315D	1
012T2400-14		1	205	1
012T2400-15		1	210	1
102LH9031-5		1	150A	1
102LH9031-6		1	125A	6
102LH9031-8		1	240A	1
102LH90315		1	150A	1
102LH90316		1	125A	6
102LH90318		1	240A	1
102LH9074-16		1	295A	1
102LH9074-8		1	185A	2
256T2120-11		1	155G	1
256T2120-3		1	155A	1
256T2120-5		1	155C	1
256T2120-9		1	155F	1
258T7100-11		1	1E	RF
258T7100-12		1	1F	RF
258T7100-13		1	1G	RF
258T7100-14		1	1H	RF
258T7100-16		1	1J	RF
258T7100-17		1	1K	RF
258T7100-19		1	1L	RF
258T7100-20		1	1M	RF
258T7100-22		1	1N	RF
258T7100-26		1	1P	RF
258T7100-28		1	1Q	RF
258T7100-29		1	1R	RF
258T7100-32		1	1S	RF
258T7100-34		1	1T	RF
258T7100-7		1	1D	RF
258T7100-8		1	1C	RF
258T7101-11		1	217B	1
258T7101-12		1	190C	1
258T7101-13		1	217C	1
258T7101-14		1	217D	1

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BOEING
 COMPONENT
 MAINTENANCE MANUAL

PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
258T7101-15		1	190D	1
258T7101-6		1	190A	1
258T7101-7		1	217	1
258T7101-8		1	217A	1
258T7101-9		1	190B	1
258T7102-1		1	245	1
258T7102-2		1	265	1
258T7103-1		1	285	1
258T7103-2		1	285A	1
258T7104-1		1	355	1
258T7104-3		1	355A	1
258T7105-1		1	300	1
258T7105-2		1	325	1
258T7105-3		1	300A	1
258T7105-4		1	325A	1
258T7107-1		1	160	1
258T7107-3		1	165A	1
258T7108-1		1	180	1
258T7109-10		1	101C	1
258T7109-11		1	100D	1
258T7109-12		1	50A	1
258T7109-2		1	50	1
258T7109-4		1	75	2
258T7109-5		1	80	2
258T7109-6		1	45	1
258T7109-7		1	100A	1
258T7109-8		1	100C	1
258T7109-9		1	101A	1
258T7110-1		1	102	1
272T4914-1		1	211	1
272T4914-2		1	214	1
284T0542-1		1	103	1
287T0015-249		1	10	2
287T0015-250		1	35	2
287T0015-263		1	15	2
287T0015-264		1	40	2
287T7106-1		1	330	1
48FT1216		1	340	1
48FT1612		1	295	1
48FT820		1	185	2
5076D100-11		1	5M	1
5076D100-17		1	5P	1
5076D100-5		1	5D	1
5076D100-7		1	5G	1
5076D100-9		1	5J	1

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PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
55768-8		1	250	1
55894		1	315D	1
60B00180-212		1	315D	1
60B00180-244		1	345B	1
67832CD524		1	150A	1
67832CD6		1	125A	6
67832CD624		1	125A	6
67832CD8		1	240A	1
67832CD820		1	240A	1
678326CD		1	125A	6
69235-1612CD		1	295A	1
69235-820CD		1	185A	2
729548E		1	390D	1
729548F		1	390F	1
729548G		1	390E	1
729548H		1	390H	1
729548J		1	390J	1
729548K		1	390K	1
729548M		1	390M	1

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BOEING
 COMPONENT
 MAINTENANCE MANUAL

FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-					
-1C	258T7100-8		TURBINE ASSY-RAM AIR	A	RF
-1D	258T7100-7		TURBINE ASSY-RAM AIR	B	RF
-1E	258T7100-11		TURBINE ASSY-RAM AIR	C	RF
-1F	258T7100-12		TURBINE ASSY-RAM AIR	D	RF
-1G	258T7100-13		TURBINE ASSY-RAM AIR	E	RF
-1H	258T7100-14		TURBINE ASSY-RAM AIR	F	RF
-1J	258T7100-16		TURBINE ASSY-RAM AIR	G	RF
-1K	258T7100-17		TURBINE ASSY-RAM AIR	H	RF
-1L	258T7100-19		TURBINE ASSY-RAM AIR	J	RF
-1M	258T7100-20		TURBINE ASSY-RAM AIR	K	RF
-1N	258T7100-22		TURBINE ASSY-RAM AIR	L	RF
-1P	258T7100-26		TURBINE ASSY-RAM AIR	M	RF
-1Q	258T7100-28		TURBINE ASSY-RAM AIR	N	RF
-1R	258T7100-29		TURBINE ASSY-RAM AIR	P	RF
-1S	258T7100-32		TURBINE ASSY-RAM AIR	Q	RF
-1T	258T7100-34		TURBINE ASSY-RAM AIR	R	RF
5D	5076D100-5		.MOTOR-ELEC (V72121) (SPEC S258T711-3) (OPT ITEMS 5G, 5J)	A-D	1
-5G	5076D100-7		.MOTOR-ELEC (V72121) (SPEC S258T711-4) (OPT 5076D100-9 (V72121)) (OPT ITEM 5D)	A-D	1
-5H	5076D100-7		.MOTOR-ELEC (V72121) (SPEC S258T711-4) (OPT 5076D100-9 (V72121)) (OPT ITEM 5M)	E-P	1
-5J	5076D100-9		.MOTOR-ELEC (V72121) (SPEC S258T711-4) (OPT 5076D100-7 (V72121)) (OPT ITEM 5D)	A-D	1
-5K	5076D100-9		.MOTOR-ELEC (V72121) (SPEC S258T711-4) (OPT 5076D100-7 (V72121)) (OPT ITEM 5M)	E-P	1
-5L	S285T711-5		DELETED		

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01- -5M	5076D100-11		.MOTOR-ELEC (V72121) (SPEC S258T711-5) (OPT ITEMS 5H, 5K)	E-P	1
-5N	S258T711-6		DELETED		
-5P	5076D100-17		.MOTOR-ELECT (V72121) (SPEC S258T711-6)	Q,R	1
10	287T0015-249		.SUPPORT ASSY-WIRE	C-R	2
15	287T0015-263		.SUPPORT ASSY-WIRE	C-R	2
20	BACR15FT5AD7		ATTACHING PARTS .RIVET	C-R	8
22	BACR15BA3AD		-----*----- ..RIVET- (SIZE DETERMINE ON INST)	C-R	2
25	BRM200A3		..NUTPLATE- (V52828) (SPEC BACN10JP3A) (OPT MK1000-3BAC (V15653)) (OPT NS103197-02 (V80539)) (OPT RMA9201M3 (V72962)) (OPT T8076S1032 (V11815)) (OPT VN202A1-02 (V92215)) (OPT ITEM 25A)	C-R	1

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01- -25A	BRM100A3		..NUTPLATE- (V52828) (SPEC BACN10JP3B) (OPT MK2000-3BAC (V15653)) (OPT NS103198-02 (V80539)) (OPT RMA9207-3 (V72962)) (OPT T8077S1032 (V11815)) (OPT VN201A1-02 (V92215)) (OPT ITEM 25)	C-R	1
35	287T0015-250		..ANGLE- (USED ON ITEM 10)	C-R	1
40	287T0015-264		..ZEE- (USED ON ITEM 15)	C-R	1
45	258T7109-6		.STOP-UP		1
50	258T7109-2		.STOP-DOWN	A-Q	1
-50A	258T7109-12		.STOP-DOWN ATTACHING PARTS	R	1
55	NAS6604-8		.BOLT		4
60	NAS6604-10		.BOLT		6
65	AN960PD416L		DELETED		
65A	AN960JD416L		.WASHER	A-P	10
-65B	NAS1149D0416J		.WASHER	Q,R	10
70	H10-4BAC		DELETED		
70A	MS21042L4		.NUT -----*		10
75	258T7109-4		.ANGLE		2
80	258T7109-5		.ANGLE ATTACHING PARTS		2

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-85	NAS6604-5		.BOLT		10
90	AN960PD416L		DELETED		
90A	AN960PJ416L		.WASHER	A-P	10
-90B	NAS1149D0416J		.WASHER	Q,R	10
95	H10-4BAC		DELETED		
95A	MS21042L4		.NUT		10
			-----*-----		
100A	258T7109-7		.PLATE	B,C,E ,H,K	1
100B	258T7109-10		DELETED		
-100C	258T7109-8		.PLATE	A,D,F ,G,J, L	1
-100D	258T7109-11		.PLATE	M-R	1
-101	258T7109-8		DELETED		
101A	258T7109-9		.PLATE	A,D,F ,G,J, L-R	1
-101C	258T7109-10		.PLATE	B,C,E ,H,K	1
102	258T7110-1		.PAD	B,C,E ,H,K	1
102J	BACR15FT5AD		.RIVET- (SIZE DETERMINE ON INST)		4
103	284T0542-1		.BRACKET ATTACHING PARTS		1
105	BACB30LE6-17		DELETED		
105A	BACB30LE6K17		.BOLT		3
110	BACB30LE6-13		DELETED		
110A	BACB30LE6K13		.BOLT		3
115	BACW10BN6AC		.WASHER		6
120	AN960PD616L		DELETED		
120A	AN960JD616L		.WASHER	A-P	6
-120B	NAS1149D0616J		.WASHER	Q,R	6
125	BMNN10HR6		DELETED		

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-125A	H51560-6		.NUT- (V15653) (SPEC BACN10HR6CD) (OPT 67832CD624 (V56878)) (OPT BMN5024CWD3-6 (V97928)) (OPT 102LH9031-6 (V72962)) (OPT BH00303CM6 (V27238)) (OPT SL7108C624 (V11815)) (OPT BH00303CM6 (V27238)) (OPT BMN5024CWD36 (V97928)) (OPT CR60306 (V62554)) (OPT H51560 (V15653)) (OPT SL7108C6 (V11815)) (OPT VCU0005D (V06710)) (OPT 102LH90316 (V72962)) (OPT 67832CD6 (V56878)) (OPT BH003026CD (V27238)) (OPT BMNN10HR6CD (V97928)) (OPT CR59066CD (V62554)) (OPT H966CD (V15653)) (OPT RMLH22 (V72962)) (OPT VAL280096CD (V06710)) (OPT 678326CD (V56878)) (OPT BMN10HRCWD3-6 (V97928))		6

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-					
130	BACB30LE5-15		DELETED		
130A	BACB30LE5K15		.BOLT		1
135	BACW10BN5AC		.WASHER		1
140	AN960PD516		DELETED		
140A	AN960JD516		.WASHER	A-P	1
-140B	NAS1149D0563J		.WASHER	Q,R	1
145	BACB28AK05-033		.BUSHING		1
150	BMNN10HR5		DELETED		
150A	H51560-5		.NUT-		1
			(V15653)		
			(SPEC BACN10HR5CD)		
			(OPT 67832CD524		
			(V56878))		
			(OPT 102LH9031-5		
			(V72962))		
			(OPT BH00303CM5		
			(V27238))		
			(OPT SL7108C524		
			(V11815))		
			(OPT BH00303CM5		
			(V27238))		
			(OPT BMN5024CWD35		
			(V97928))		
			(OPT CR60305		
			(V62554))		
			(OPT SL7108C5		
			(V11815))		
			(OPT SL7108C5		
			(V11815))		
			(OPT VCU0005D5		
			(V06710))		
			(OPT 102LH90315		
			(V72962))		

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-155A	256T2120-3		.ACTUATOR ASSY-ROTARY (REF CMM 27-81-51)	A-D	1
-155B	256T2120-3		.ACTUATOR ASSY-ROTARY (OPT ITEM 155C) (REF CMM 27-81-51)	E-M	1
-155C	256T2120-5		.ACTUATOR ASSY-ROTARY (OPT ITEM 155B) (REF CMM 27-81-51)	E-M	1
-155D	256T2120-3		DELETED		
-155E	256T2120-5		DELETED		
-155F	256T2120-9		.ACTUATOR ASSY-ROTARY (OPT ITEM 155H) (REF CMM 27-81-51)	N	1
-155G	256T2120-11		.ACTUATOR ASSY-ROTARY (REF CMM 27-81-51)	P-R	1
-155H	256T2120-11		.ACTUATOR ASSY-ROTARY (LIMITED) (OPT ITEM 155F) (REF CMM 27-81-51)	N	1
160	258T7107-1		.BOLT-PIVOT		1
165A	258T7107-3		.BOLT-PIVOT		1
170	AN960-1016L		.WASHER	A-P	2
-170A	NAS1149F1032P		.WASHER	Q,R	2
175	BACW10P255CF		.WASHER		2
180	258T7108-1		.SPACER		1
185	H10-8BAC		.NUT- (V15653) (SPEC BACN10JC8) (OPT BMN4122A8 (V85495)) (OPT RMLH9074-8 (V72962)) (OPT 48FT820 (V56878)) (OPT BMN4122AD3-8 (V97928))	A-P	2

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01- -185A	H51650-8BAC		.NUT- (V15653) (SPEC BACN10JC8CD) (OPT 102LH9074-8 (V72962)) (OPT 69235-820CD (V92215)) (OPT BMN4122CPD8-8 (V97928))	Q,R	2
190A	258T7101-6		.FRAME ASSY	A-K	1
-190B	258T7101-9		.FRAME ASSY- (OPT ITEM 190C)	L	1
-190C	258T7101-12		.FRAME ASSY- (OPT ITEM 190B)	L	1
-190D	258T7101-15		.FRAME ASSY	M-R	1
195	BACB28W10B025		..BUSHING		2
200	BACB28W16B025		..BUSHING		1
205	012T2400-14		..BUSHING		1
210	012T2400-15		..BUSHING		1
211	272T4914-1		..BRACKET ASSY		1
212	BACR15BA3AD		...RIVET- (SIZE DETERMINE ON INST)		4
213	BRF100A3		...NUTPLATE- (V52828) (SPEC BACN10KB3F) (OPT F2000-3 (V15653)) (OPT RMF9207-3 (V72962)) (OPT T8114S1032S (V11815)) (OPT VN151A1-02 (V92215)) (OPT F2000-3 (V15653))		2

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-					
214	272T4914-2		...BRACKET		1
217	258T7101-7		..FRAME- (OPT ITEM 217A)	A-K	1
-217A	258T7101-8		..FRAME- (OPT ITEM 217)	A-K	1
-217B	258T7101-11		..FRAME- (USED ON ITEM 190B)	L	1
-217C	258T7101-13		..FRAME- (USED ON ITEM 190C)	L	1
-217D	258T7101-14		..FRAME	M-R	1
220	BACB30LE8-29		DELETED		
220A	BACB30LE8K29		.BOLT		1
225	BACW10BN8AC		.WASHER		1
227	NAS1515H12		.WASHER		2
230	AN960PD816		DELETED		
230A	AN960JD816		.WASHER	A-P	1
-230B	NAS1149D0863J		.WASHER	Q,R	1
235	BACB28AK08-067		.BUSHING		1
240	BMNN10HR8		DELETED		

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE	EFF CODE	QTY PER ASSY
01-240A	H51560-8		1234567 .NUT- (V15653) (SPEC BACN10HR8CD) (OPT 67832CD820 (V56878)) (OPT BMN5024CWD3-8 (V97928)) (OPT 102LH9031-8 (V72962)) (OPT BH00303CM8 (V27238)) (OPT BMN10HRCWD3-8 (V97928)) (OPT BH00303CM8 (V27238)) (OPT BMN5024CWD38 (V97928)) (OPT CR60308 (V62554)) (OPT H51560 (V15653)) (OPT SL7108C8 (V11815)) (OPT VCU0005D8 (V06710)) (OPT 102LH90318 (V72962)) (OPT 67832CD8 (V56878))		1
245	258T7102-1		.ARM ASSY-DEPLOYMENT		1

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE	EFF CODE	QTY PER ASSY
			1234567		
01-250	BNG8F113		..BEARING- (V16746) (SPEC BACB10CN8) (OPT BLN8-2230 (V81376)) (OPT HG8-140 (V02758)) (OPT KSBG8-57 (V97613)) (OPT 55768-8 (V09455)) (OPT NBG8A (V73134)) (OPT NC8G1 (V56644)) (OPT ABG8V4 (V50294)) (OPT AG8V30 (V15860)) (OPT ABG8V4 (VS0352))		1
255	M81936-1-5R		..BEARING		1
260	MS15720-1		..NIPPLE-LUBE		2
265	258T7102-2		..ARM		1
285	258T7103-1		.LINK ASSY-DOOR (OPT ITEM 285A)	A-F	1
-285A	258T7103-2		.LINK ASSY-DOOR (OPT ITEM 285)	A-F	1
-285B	258T7103-2		.LINK ASSY-DOOR	G-R	1
290	AN960-1616L		.WASHER	A-P	1
-290A	NAS1149F1632P		.WASHER	Q,R	1

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-295	H10-1612BAC		.NUT- (V15653) (SPEC BACN10JC16) (OPT BMN4122A16 (V85495)) (OPT RMLH9074-16 (V72962)) (OPT 48FT1612 (V56878)) (OPT BMN4122AD3-16 (V97928))	A-P	1
-295A	H51650-1612BAC		.NUT- (V15653) (SPEC BACN10JC16CD) (OPT 102LH9074-16 (V72962)) (OPT 69235-1612CD (V92215)) (OPT BMN4122CPD8-16 (V97928)) -----*	Q,R	1
300	258T7105-1		..ROD END ASSY- (USED ON ITEM 285)	A-F	1
-300A	258T7105-3		..ROD END ASSY- (USED ON ITEMS 285A, 285B) ATTACHING PARTS		1
305	NAS513-8		..WASHER		1
310	NAS509-8		..NUT -----*		1
315A	ASBY6V6		DELETED		
-315B	ABY6-102		DELETED		

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01- 315C 315D	WC66-4 HSBY6-112		DELETED ...BEARING- (V02758) (SPEC 60B00180-212) (OPT 55894 (V09455)) (OPT ABY6-102 (VS0352)) (OPT ASBY6V6 (V15860)) (OPT KSBY6-15 (V97613)) (OPT WC6G4 (V56644))		1
320 325	MS15001-1 258T7105-2		...FITTING-LUBE ...END- (USED ON ITEM 300)	A-F	2 1
-325A	258T7105-4		...END- (USED ON ITEM 300A)		1
330	287T7106-1		..PIN ATTACHING PARTS		1
335 340	AN960C1216L H10-12BAC		..WASHER ..NUT- (V15653) (SPEC BACN10JC12) (OPT RMLH9074-12 (V72962)) (OPT 48FT1216 (V56878)) (OPT BMN4122AD3-12 (V97928)) -----*		1 1
345A 345B	LHB16-51BAC NC16G5		DELETED ..BEARING-SPHER (V56644) (SPEC 60B00180-244) (OPT ABG16V105 (VS0352)) (OPT B12-1479-2 (V73134)) (OPT BNG16F244 (V16746)) (OPT LHB16051BAC (V73134))		1

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-					
350	MS15001-1		..FITTING-LUBE		1
355	258T7104-1		..LINK- (USED ON ITEM 285)	A-F	1
-355A	258T7104-3		..LINK- (USED ON ITEMS 285A, 285B)		1
390D	729548E		.TURBINE-HYDR PUMP RAM AIR (V99167) (SPEC S258T710-8)	A,B	1
-390E	729548G		.TURBINE-HYDR PUMP RAM AIR (V99167) (SPEC S258T710-10) (OPT 729548F (V99167))	C-H	1
-390F	729548F		.TURBINE-HYDR PUMP RAM AIR (V99167) (SPEC S258T710-10) (OPT 729548G (V99167))	C-H	1
-390G	S258T710-16		DELETED		
-390H	729548H		.TURBINE-HYDR PUMP RAM AIR (V99167) (SPEC S258T710-16) (OPT 729548J (V99167))	J,K,L	1
-390J	729548J		.TURBINE-HYDR PUMP RAM AIR (V99167) (SPEC S258T710-16) (OPT 729548H (V99167))	J,K,L	1
-390K	729548K		.TURBINE-HYDR PUMP RAM AIR (V99167) (SPEC S258T710-20)	M	1
-390L	S258T710-22		DELETED		
-390M	729548M		.TURBINE-HYDR PUMP RAM AIR (V99167) (SPEC S258T710-22)	N-R	1

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