

 **BOEING**
COMPONENT
MAINTENANCE MANUAL

TO: ALL HOLDERS OF LEFT AND RIGHT SYSTEM HYDRAULIC RESERVOIR ASSEMBLY COMPONENT
MAINTENANCE MANUAL 29-11-12

REVISION NO. 4 DATED MAR 01/97

HIGHLIGHTS

All data formerly in manual 29-11-11 is included in this manual 29-11-12.

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 number and data on the Record of Revision page.

CHAPTER/SECTION

AND PAGE NO.

1002-1005,1007-1014,
1016-1019,1021-1038

DESCRIPTION OF CHANGE

Updated per latest engineering drawings.

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HIGHLIGHTS

01.1

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LEFT AND RIGHT SYSTEM HYDRAULIC RESERVOIR ASSEMBLY

PART NUMBERS 271T5212 -21 THRU -26,-31,-33,
-35,-41 THRU -46,
-47 THRU -50

COMPONENT MAINTENANCE MANUAL
WITH
ILLUSTRATED PARTS LIST

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TITLE PAGE

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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
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TR & SB RECORD

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*1004	MAR 01/97	01.1			
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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. An asterisked flagnote *[] in place of the page number indicates that no special instructions are provided since the function can be performed using standard industry practices.

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:

Testing/TS	April 20/83
Assembly	April 20/83

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INTRODUCTION

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LEFT AND RIGHT SYSTEM HYDRAULIC RESERVOIR ASSEMBLY

DESCRIPTION AND OPERATION

1. Description

- A. The left and right hydraulic reservoir systems are pressurized aluminum systems located in the aft engine fairing area and attached to engine support beams on the lower sides of the wings. The hydraulic reservoir consists of supports, bosses, a lower and upper shell assembly, a weld assembly, and a negative-G trap assembly. A probe tube is located inside of the reservoir with one end inserted in the quantity indicator boss. A monitoring system is attached at the end of the quantity indicator boss on the exterior of the reservoir.

2. Operation

- A. The left and right hydraulic reservoir systems supply hydraulic fluid to accommodate the pressure flow demands of the various hydraulically actuated components of the systems.

3. Leading Particulars (Approximate)

Diameter -- 19 inches
Length -- 18 inches
Weight -- 6 pounds

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DESCRIPTION & OPERATION

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TESTING AND TROUBLE SHOOTING1. Materials

NOTE: Equivalent substitutes may be used.

- A. Hydraulic Fluid -- BMS 3-11 (Ref 20-60-03)
- B. Hydraulic test stand capable of supplying 90 psig for 5 minutes using a 15 micron absolute filter.

2. Pressure Test

- A. Install hydraulic reservoir into hydraulic test stand.
- B. The test fluid shall be continuously filtered by a 15 micron absolute filter.
- C. Pressure test unit with hydraulic fluid at 90 pounds per square inch gauge pressure for 5 minutes. There shall be no leakage or permanent set.

3. Negative G Valve Test

- A. From its normal position, slowly invert the empty reservoir (1E, 5E) and check for audible indication that ball (305A) has lifted.
- B. Slowly return the empty reservoir (1E, 5E) to its normal position and check for audible indication that ball (305A) has resealed in its initial position.

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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. Disassemble this component using standard industry practices.

NOTE: Do not disassemble weld assembly (240, 245, IPL Fig. 1). Replace as a unit if damaged or defective.

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DISASSEMBLY

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CLEANING1. Material and Equipment

NOTE: Equivalent substitutes may be used.

- A. Hydraulic Fluid -- BMS 3-11 (Ref 20-60-03).
- B. Reservoir flushing rig capable of providing 20 gpm at 55 psi through a 15 micron absolute filter.
- C. Bonding meter -- Model T-477W Manufacturer: Avtron Manufacturing, Inc.,
7900 E. Pleasant Valley Rd, Independence, OH 44131
- D. Sealing Cap -- A29005-1

2. Clean all parts except bearing using standard industry practices (Ref 20-30-03).

3. Clean TFE-lined bearing (219A, IPL Fig. 1) per manufacturer's instruction.

4. Flushing Procedure (IPL Fig. 1)

NOTE: This procedure is to be carried out prior to installation in airplane.

- A. Connect supply line from flushing rig to return port adapters (130) or union (143).
- B. Connect pressure relief valve (185A) outlet to flushing rig reservoir.
- C. Connect return line on flushing rig to supply port adaptors (70 or 71, 80).
- D. Blank reservoir pressurization port adaptor (150) with suitable pressure tight blank. Make sure drain valve (60) is closed.
- E. Remove quantity indicator probe (100) and cover opening with sealing cap.
- F. Flush reservoir for 10 minutes at 20 gpm flow rate. Do not exceed 55 psi in reservoir during flushing.
- G. Drain reservoir through drain valve (60).
- H. Remove sealing cap at quantity indicator probe (100) opening.

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I. Install quantity indicator probe (100).

- (1) Clean faying surfaces of probe (100) and quantity indicator boss (420) for electrical bonding per 20-11-03.
- (2) Install packing (102) and quantity indicator probe (100) with bolts (105A) and washers (110). Tighten bolts to 25-30 lb-in. and lockwire per 20-50-02 using double twist method.
- (3) Check that maximum resistance across bond is 0.0025 ohm with Avtron bonding meter. Resistance must be measured from probe (100) to true ground.

NOTE: The term bond is electrically connecting two or more conductive surfaces.

J. Disconnect flushing lines from reservoir and install BMS 3-11 resistant plugs or caps in all openings.

NOTE: All plugs, caps, and blanks shall be flushed clean prior to installation.

K. Fit other transportation blanks as required to ensure that reservoir is kept clean.

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CHECK

1. Check all parts for obvious defects in accordance with standard industry practices.
2. Magnetic particle examine per 20-20-01 - bushing (237), clip (275).
3. Penetrant examine per 20-20-02 - Support (220, 220A, 221, 221A, 222A, 225B, 238, 460), ring (400, 440, 442), pan (365), bosses (250, 410, 415, 420, 443, 445), manifold (405, 407), and shell (425, 455).

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CHECK
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REPAIR – GENERAL1. Content

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

<u>P/N</u>	<u>NAME</u>	<u>REPAIR</u>
271T0098	SUPPORT	1-1
271T0120	SUPPORT	2-1
271T0142	SUPPORT	3-1
- - - -	MISC PARTS REFINISH	4-1
271T5211	WELD ASSEMBLY	5-1

2. Standard Practices

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

20-20-02 Penetrant Methods of Inspection
 20-30-02 Stripping of Protective Finishes
 20-30-03 General Cleaning Procedures
 20-41-01 Decoding Table for Boeing Finish Codes
 20-41-02 Application of Chemical and Solvent Resistant Finishes
 20-42-03 Hard Chrome Plating
 20-42-05 Bright Cadmium Plating
 20-43-01 Chromic Acid Anodizing
 20-50-03 Bearing Installation and Retention

3. Materials

NOTE: Equivalent substitutes may be used.

- A. Grease -- BMS 3-24 (Ref 20-60-03)
 B. Primer -- BMS 10-11, type 1 (Ref 20-60-02)
 C. Sealant -- BMS 5-95 (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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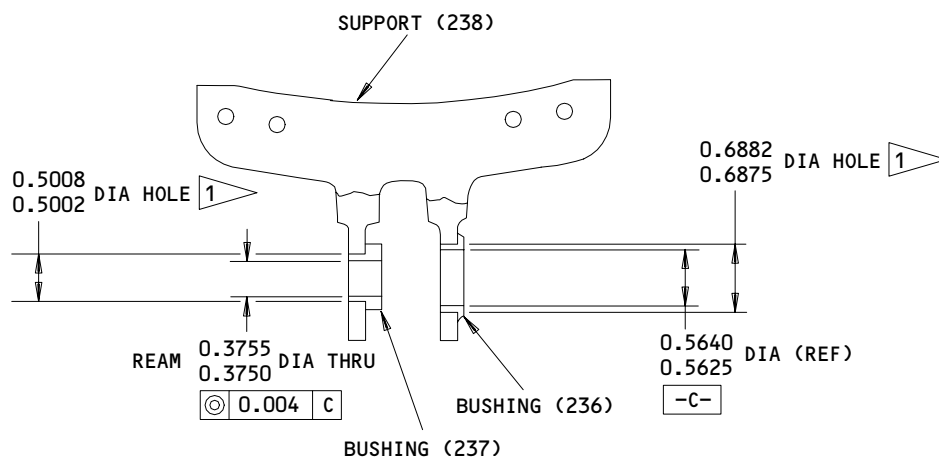
SUPPORT ASSEMBLY - REPAIR 1-1

271T0098-3

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

1. Bushing Replacement (IPL Fig. 1)

- A. Remove bushings (236, 237).
- B. Install bushings (236, 237) per 20-50-03 except use wet BMS 5-95 sealant.
- C. Ream bore of bushing (237) to dimensions in Fig. 601.
- D. Fillet seal flanges of bushings (236, 237) with BMS 5-95 sealant.

REFINISH

SUPPORT (238) -- CHROMIC ACID ANODIZE (F-17.04).
 APPLY ONE COAT OF BMS 10-11, TYPE I PRIMER
 (F-20.02) EXCEPT AS NOTED.

MATERIAL: AL ALLOY

ALL DIMENSIONS ARE IN INCHES

1 OMIT PRIMER IN THIS AREA

Support Assembly - Bushing Replacement and Refinish
 Figure 601

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REPAIR 1-1

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SUPPORT ASSEMBLY - REPAIR 2-1

271T0120-1, -2

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

1. Bearing Replacement (IPL Fig. 1)

A. Remove bearing (219A).

B. Install bearing (219A) with grease and roller swage per 20-50-03.

2. Refinish

A. Support (220, 220A) -- Chromic acid anodize and apply one coat of BMS 10-11, type 1 primer (F-18.13) except in ID of 0.8755-0.8760 inch holes.
Material: Aluminum alloy.

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REPAIR 2-1

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SUPPORT ASSEMBLY - REPAIR 3-1

271T0142-1, -2

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

1. Bearing Replacement (IPL Fig. 1)

A. Remove bearing (219A).

B. Install bearing (219A) with grease and roller swage per 20-50-03.

2. Refinish

A. Support (220A, 221A) -- Chromic acid anodize and apply one coat of BMS 10-11, type 1 primer (F-18.13) except in ID of 0.8755-0.8760 inch holes.
Material: Aluminum alloy.

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REPAIR 3-1

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MISC PARTS REFINISH - REPAIR 4-1

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

IPL FIG. & ITEM	MATERIAL	FINISH
<u>Fig. 1</u>		
Support (222A, 225B)	Aluminum alloy	Chromic acid anodize and apply one coat of BMS 10-11, type 1 primer (F-18.13).
Clip (275)	17-7PH CRES 180-200 ksi	Passivate (F-17.09) and cadmium plate all over, type 2, class 2 (F-15.06).
Weld assembly (240,245)		See REPAIR 5-1.
Bracket (203,204A)	Aluminum alloy	Chromic acid anodize type 1, and apply one coat BMS 10-11, type 1 primer (F-18.13).

Refinish Details
 Figure 601

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WELD ASSEMBLY – REPAIR 5-1

271T5211-1, -2, -9, -10

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

1. Port Boss Repair (401, IPL Fig. 1)

A. Repair cracks in weld assy (240, 245) adjacent to system return boss (401) as follows:

- (1) Strip finish per 20-30-02 from an area 5.5 inches in diameter centered on the cracked boss.
- (2) Perform dye penetrant examination per 20-20-02 of sanded area.

CAUTION: TO AVOID DAMAGING UNDERLYING RESERVOIR STRUCTURE DURING DRILLING OF STOP HOLE, LIMIT DEPTH OF DRILL PENETRATION TO 0.15 INCH MAXIMUM.

- (3) Drill 0.1 inch diameter hole with near side of hole just touching end of crack, at all crack ends. Recheck per 20-20-02 to ensure crack does not continue on far side of hole.
- (4) Grind a V-notch along crack with 60-90 degree included angle, 0.050 to 0.060 inch deep. Remaining material thickness is to be 0.030 inch maximum.
- (5) Clean weld assy per 20-30-03 and dry with compressed air.
- (6) Fusion weld crack by inert gas shielded method, using 4043 aluminum alloy filler. Purge inside of tank with inert gas while welding.
- (7) Check weld per operator's standard practice.
- (8) Manufacture doubler as shown in Fig. 601. Ensure that doubler conforms to weld assy surface.
- (9) Grind crack weld beads under repair doubler (Fig. 601) flush with surface.

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- (10) Perform dye penetrant examination per 20-20-02 of weld area.
- (11) Weld repair doubler, as in par. (6), to weld assy. Weld around boss first, completely filling gap. If doubler has not been preformed, form outside periphery of doubler to ensure net fit with tank shell. Weld outside periphery and halves of doubler. Minimize heat input to weld to reduce possibility of cracking at weld area on inside surface of tank.
- (12) Proof test tank at 90 psi pressure per Testing and Trouble Shooting.
- (13) Perform dye penetrant examination per 20-20-02 of weld around repair doubler.
- (14) Refinish weld assy per par. 2.

2. Refinish

- A. Weld assembly (240, 245) -- Chemically treat (F-17.07); apply one coat BMS 10-11, type 1 primer (F-20.02) on all outside surfaces, except omit primer from all threaded bosses. Material: Alum alloy.

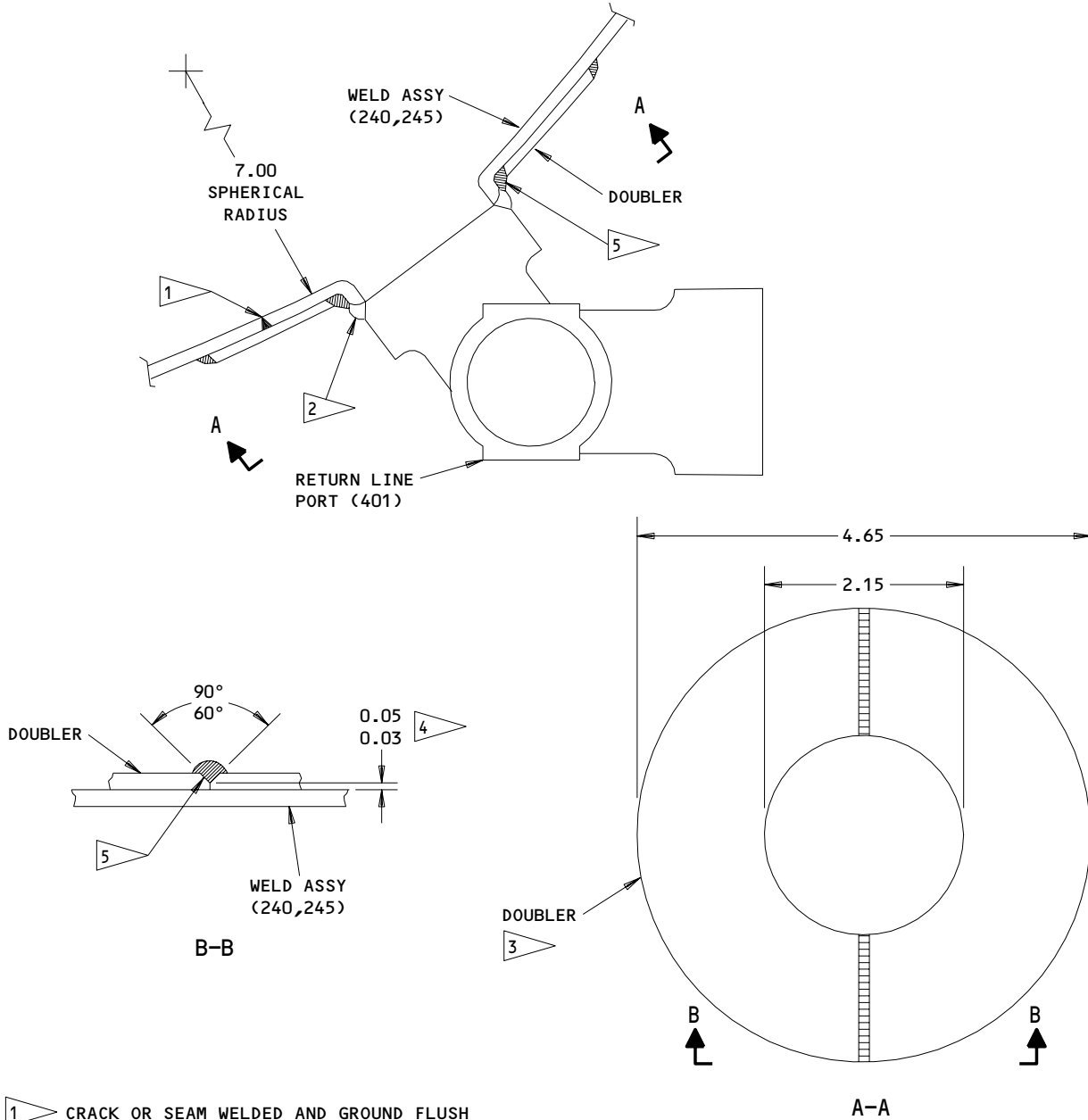
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- 1 CRACK OR SEAM WELDED AND GROUND FLUSH
- 2 GRIND EXISTING WELD AS REQUIRED TO CLEAR DOUBLER
- 3 MAKE DOUBLER FROM 0.100 GAGE 6061-O HEAT TREATED TO T4
- 4 CHAMFER LIMIT
- 5 WELD PER REPAIR INSTRUCTIONS

ALL DIMENSIONS ARE IN INCHES

271T5211-1,-2,-9,-10
 Weld Assembly Repair
 Figure 601

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REPAIR 5-1

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ASSEMBLY1. Materials

NOTE: Equivalent substitutes may be used.

- A. Primer -- BMS 10-11, type 1 (Ref 20-60-02)
- B. Lockwire -- MS20995NC20
- C. Skydrol Assembly Lube (Ref 20-60-03)
- D. Bonding Meter -- Model T-477W Manufacturer: Avtron Manufacturing Inc.,
7900 E. Pleasant Valley Rd, Independence, OH 44131
- E. Hydraulic Fluid -- BMS 3-11 (Ref 20-60-03)
- F. Top Coating -- BMS 3-11 resistant, BAC5710 type 41 (Ref 20-60-02)

2. Assembly (IPL Fig. 1, Fig. 701, 702)

- A. Use standard industry practices for the assembly of this component and the following additional procedures.
- B. Tighten bolts (45, 105A) to a range of 25-30 pound-inches.
- C. Lockwire heads of bolts (45, 105A) and sampling valve (120A) to lower shell (425) using double twist method per 20-50-02. Lockwire valve to body using double twist method.
- D. Lubricate all threaded fittings with Skydrol Assembly Lube.
- E. Install and lubricate all packings and seals with Skydrol Assembly Lube.
- F. Install back-up ring (190) on side of packing (195) nearest the thread of valve (185A).
- G. Install support assemblies (207, 208, 222A, 225B, 230, 231).
 - (1) Prepare faying surfaces of forward support assembly (207 or 208), aft support (222A or 225B), outboard support assembly (230 or 231), and 16.84-17.09 inch diameter ring of support ring (440 or 442) for electrical bonding per 20-11-03.

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- (2) Install support assemblies (207 or 208, 222A or 225B, 230 or 231) with shims (218B, 220A, 235) as required. Maximum allowable gap is less than 0.003 inch.
 - (3) Apply primer either wet or dry before shim is installed if laminations have been removed.
 - (4) Check that maximum resistance across bond is less than 0.0025 ohm. Resistance must be measured from installed support assemblies to true ground with bonding meter.
- H. If required, drill 0.190-0.194 dia. oversize holes in brackets (203, 204A) and reservoir assembly (240, 245). Install brackets with bolt (202K) (head up), washers (202N) and nut (202R). Install bolt with a wet coat of BMS 10-11 type 1 primer.
- I. Install all 5/32 inch diameter hi-lock drive bolts in 0.161-0.164 inch diameter holes.
- J. Install aluminum foil markers per 20-50-05 (Fig. 702).
- K. Flush reservoir assembly per CLEANING.

NOTE: Flushing procedure is to be carried out prior to installation in airplane with reservoir at assembly stage.

- L. Install temperature bulb (90A) and quantity indicator probe (100).
- (1) Prepare faying surfaces for electrical bonding per 20-11-03.
 - (2) Install temperature bulb (90A) and packing (95).
 - (3) Install probe (100) and packing (102) with bolts (105A) and washers (110). Tighten bolts (105A) to 25-30 lb-in. and lockwire bolts (105A) using double twist method per 20-50-02.
 - (4) Check that maximum resistance across bond is less than 0.0025 ohm. Resistance must be measured from installed transmitter (90A) or probe (100) to true ground with bonding meter.

NOTE: The term bond is electrically connecting two or more conductive surfaces.

3. Storage

- A. Install BMS 3-11 resistant plugs, caps, or blanks in all openings.

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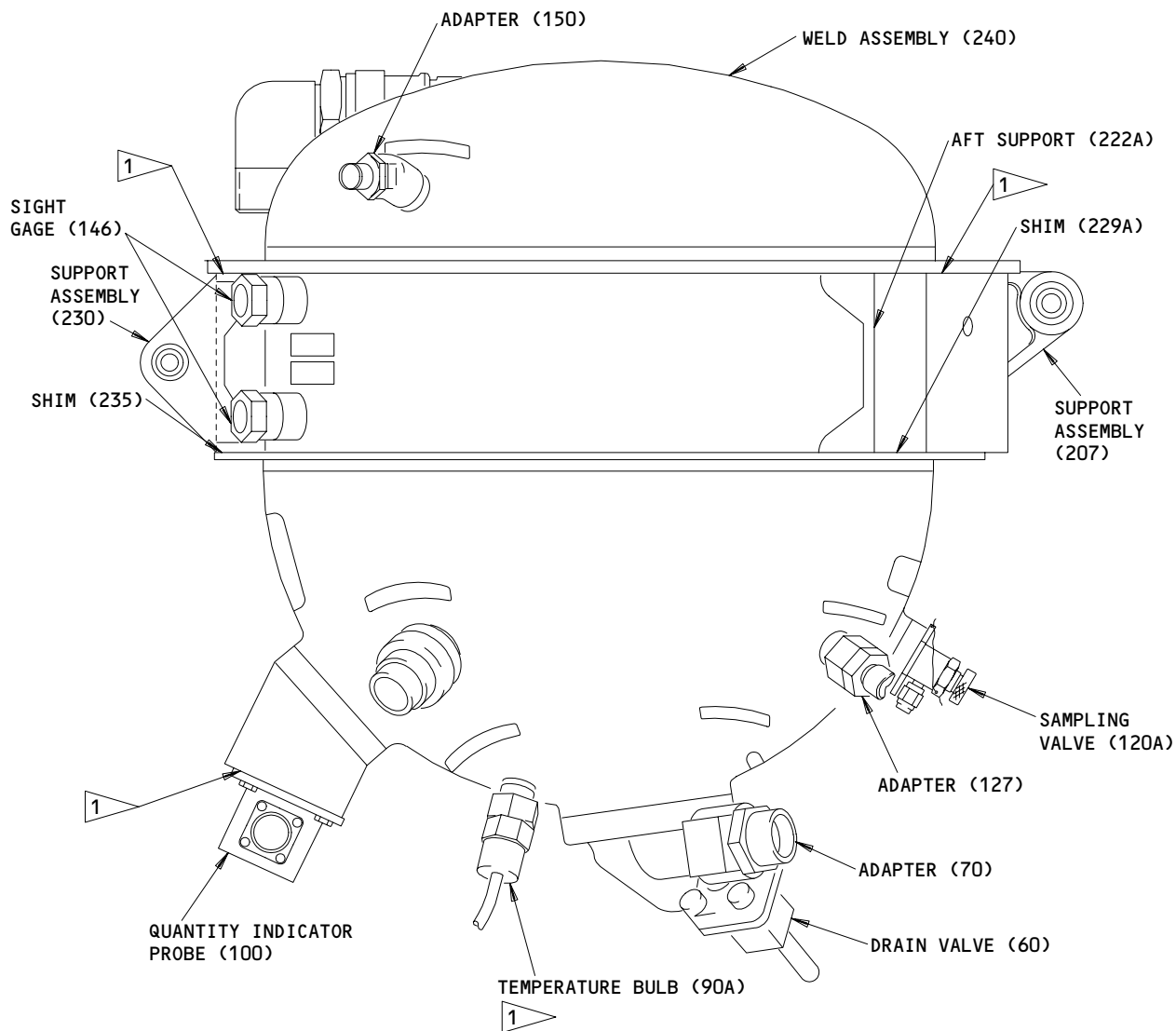
ASSEMBLY
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- B. Close drain valve (60) and lockwire knob per 20-50-02 using double twist method.

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01 ASSEMBLY
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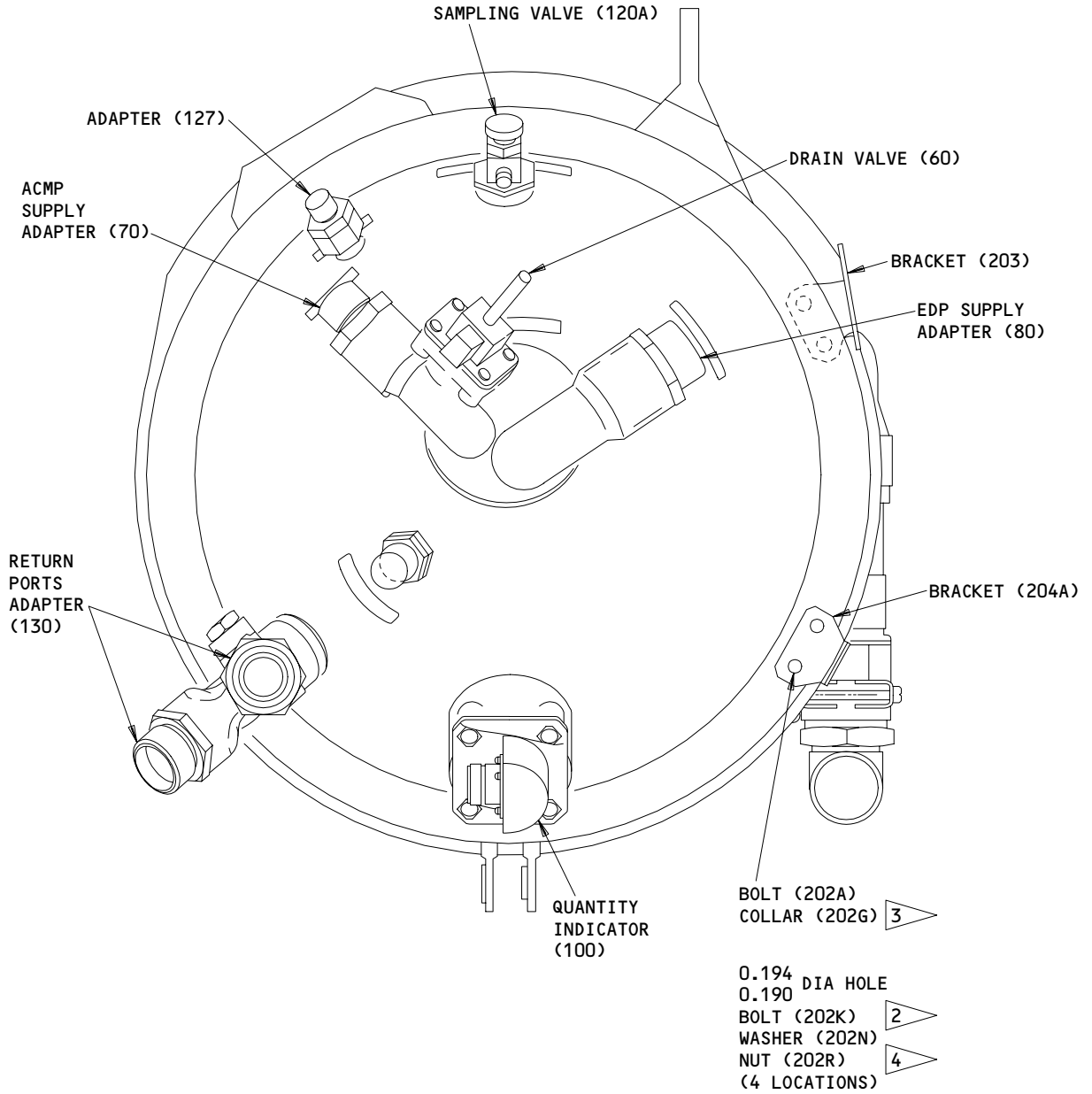
- 1 ▷ PREPARE FAYING SURFACE FOR ELECTRICAL BONDING. CHECK MAXIMUM RESISTANCE ACROSS BOND IS LESS THAN 0.0025 OHM.
- 2 ▷ INSTALL BOLT WITH WET BMS 10-11, TYPE 1 PRIMER.
- 3 ▷ THIS CONFIGURATION FOUND ON TOP ASSEMBLIES 271T5212-21,-23,-25
- 4 ▷ THIS CONFIGURATION FOUND ON TOP ASSEMBLIES 271T5212-31,-33,-35,-41,-43,-45,-47,-49

Reservoir Assembly
 Figure 701 (Sheet 1)

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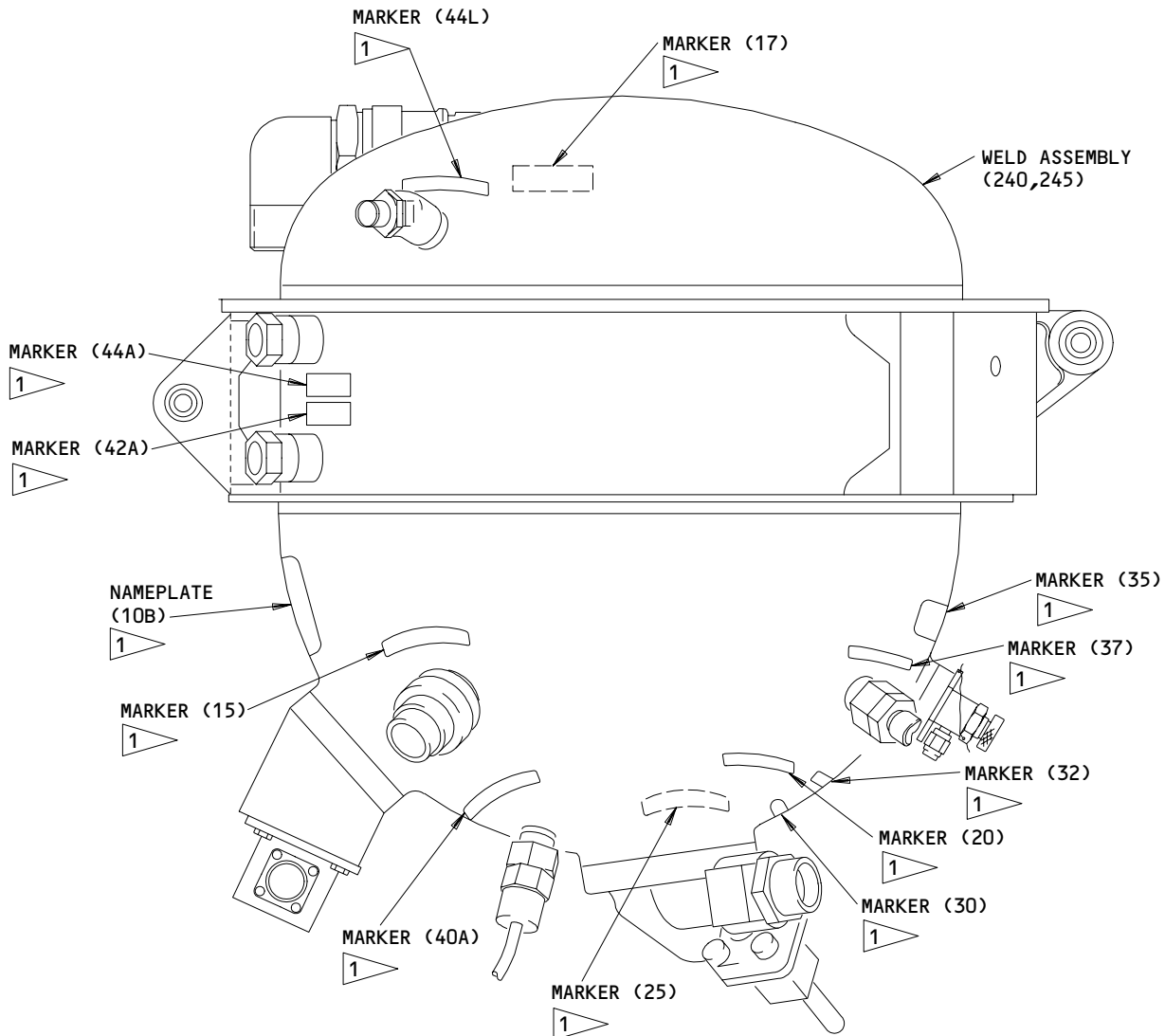


Reservoir Assembly
 Figure 701 (Sheet 2)

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1 INSTALL ALUMINUM FOIL MARKER PER 20-50-05.
 AFTER INSTALLATION, APPLY BAC5710, TYPE
 41 CLEAR BMS 3-11 RESISTANT COATING.
 COATING MUST EXTEND A MINIMUM OF 0.38
 BEYOND EDGE OF MARKER

Marker Installation
 Figure 702

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01

FITS AND CLEARANCES

FOR TORQUE VALUES OF STANDARD FASTENERS, REFER TO 20-50-01			
ITEM NO. IPL FIG. 1	NAME	TORQUE	
		POUND-INCHES	POUND-FEET
45	BOLT	25-30	
105A	BOLT	25-30	

Torque Table
 Figure 801

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FITS AND CLEARANCES
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SPECIAL TOOLS

1. Special Tools

NOTE: Equivalent substitutes may be used for listed item.

A. Pressure Transmitter Mount Sealing Cap -- A29005-1

B. Bonding meter -- Model T-477W, Avtron Manufacturing Inc.,
7900 E. Pleasant Valley Rd, Independence, OH 44131

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SPECIAL TOOLS

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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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ILLUSTRATED PARTS LIST

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VENDORS

01673 AIRDROME PARTS CO
3251 AIRPORT WAY PO BOX 1867
LONG BEACH, CALIFORNIA 90801

02107 FLOUROCARBON CO OHIO DIV
DOVER, OHIO 44622

06177 PNEUDRAULICS INC
8575 HELMS AVENUE
RANCHO CUCAMONGA, CALIFORNIA 91730-4519

06725 AIR INDUSTRIES CORPORATION
12570 KNOTT STREET
GARDEN GROVE, CALIFORNIA 92641-3932

07128 TETRAFLUOR INC
2051 EAST MAPLE AVENUE
EL SEGUNDO, CALIFORNIA 90245-5009

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

11328 AEROQUIP CORP LINAIR DIV
651 WEST KNOX STREET
GARDENA, CALIFORNIA 90248-4409

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

14397 FABER ENTERPRISES, INCORPORATED
6606 VARIEL AVE
CANOGA PARK, CALIFORNIA 91303-2808

14798 DEUTSCH CO METAL COMPONENTS DIV
14800 SOUTH FIGUEROA STREET
GARDENA, CALIFORNIA 90248-1719

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

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**BOEING**
COMPONENT
MAINTENANCE MANUALVENDORS

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

17446 HUCK MFG CO GOV CONTRACTS LOS ANGELES DIV SUB OF FED-MOGUL
900 WATSON CENTER ROAD
CARSON, CALIFORNIA 90745

26055 GULL INC SUB OF PARKER-HANNIFIN CORP
70 CORPORATE DRIVE PO BOX 9400
SMITHTOWN, N. Y. 11787

26303 GREENE TWEED IND INC ADVANTEC DIV
7101 PATTERSON DRIVE PO BOX 5037
GARDEN GROVE, CALIFORNIA 92645-5037

26879 CORONADO MFG INC
11069 PENROSE AVENUE
SUN VALLEY, CALIFORNIA 90352-2722

27545 HARTFORD BALL CO A VIRGINIA INDUSTRIES INC CO
1022 ELM STREET
ROCKY HILL, CONNECTICUT 06067-1809

30974 AEROFIT PRODUCTS INC
8531 WHITAKER STREET
BUENA PARK, CALIFORNIA 90621-3129

35918 LEWIS ENGINEERING CO
238 WATER STREET
NAUGATUCK, CONNECTICUT 06770-2803

5M902 FAIRCHILD IND INC VOI-SHAMI DIV
4001 INGLEWOOD AVENUE
REDONDO BEACH, CALIFORNIA 90278

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

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VENDORS

50632 KAMATICS CORP SUB OF KAMAN CORP
1335 BLUE HILLS ROAD
BLOOMFIELD, CONNECTICUT 06002-1304

50948 PARKER-HANNIFIN CORP HUNTSVILLE AIRCRAFT FACILITY
9400 SOUTH MEMORIAL PARKWAY
HUNTSVILLE, ALABAMA 35802

52676 SKF INDUSTRIES INC
1100 FIRST AVENUE
KING OF PRUSSIA, PENNSYLVANIA 19406-1312

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

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

61498 SEE CODE V14798

71087 BOOTS ACFT NUT DIV TOWNSEND CO SEE TEXTRON INC CHERRY
FASTENER TOWNSEND DIV V11815

72962 ELASTIC STOP NUT A DIV OF HARTFORD INDUSTRIES INC
2330 VAUXHALL ROAD
UNION, NEW JERSEY 07083-5038

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

73197 HI-SHEAR TECHNOLOGY CORP
2600 SKYPARK DRIVE
TORRANCE, CALIFORNIA 90509

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ILLUSTRATED PARTS LIST
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VENDORS

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

81982 CRANE COMPANY HYDRO-AIRE DIV
3000 WINONA AVENUE PO BOX 7722
BURBANK, CALIFORNIA 91510

92003 PARKER-HANNIFIN CORPORATION
18321 JAMBOREE BOULEVARD PO BOX C-19510
IRVINE, CALIFORNIA 92713

92215 FAIRCHILD IND INC FAIRCHILD AEROSP FASTNR DIV DESIGN & ENGRG
3000 WEST LOMITA BLVD
TORRANCE, CALIFORNIA 90505-5102

94878 RAYBESTOS-MANHATTAN INC PACIFIC COAST DIV
FULLERTON, CALIFORNIA 92631

97484 VICKERS INC
24 EAST GLENHOLDEN AVENUE
GLENHOLDEN, PENNSYLVANIA 19036-2107

97613 SARGENT TECHNOLOGIES
1851 SOUTH PANTANO ROAD
TUCSON, ARIZONA 85710

97820 BUSAK AND SHAMBAN INC BEARING DIV
711 MITCHELL ROAD PO BOX 665
NEWBURY PARK, CALIFORNIA 91320-2214

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

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VENDORS

98939 FLUID REGULATORS CORPORATION
313 GILLETTE STREET
PAINESVILLE, OHIO 44077-2918

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BOEING
 COMPONENT
 MAINTENANCE MANUAL

PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
ADB6V301C		1	219A	1
AFP358-20D		1	181	1
AN6289D20		1	182	1
AN814-16D		1	132	1
AN814-8D		1	140A	1
AN929-2		1	115	
AN929A2		1	115B	1
AN960PD10		1	50	4
		1	162	2
		1	172	2
AN960PD10L		1	202N	8
AN960PD416		1	110	4
AP1007-20D		1	181	1
BACA14BB20BD		1	181	1
BACB10ES0GC		1	219	
BACB10ES06GC		1	219A	1
BACB10TC2-32A		1	305B	1
BACB10TM2-32		1	305	
BACB10TM2-32A		1	305A	1
BACB2N5K4		1	202	
BACB28X9M015		1	236	1
BACB30GP5-5		1	232	4
BACB30GP5-6		1	233	4
BACB30GP6-4		1	216A	2
		1	226A	4
BACB30GP6-5		1	217A	2
		1	226H	4
		1	227A	4
BACB30NT3C3		1	170	
BACB30NT3C36		1	160	
BACB30NT3C7		1	170A	1
BACB30NT3K36		1	160A	1
BACB30NX5K4		1	202A	4
BACB30NX5K5		1	465A	2
BACC10AA32-24		1	175	1
BACC14ADD04		1	115A	
BACC30X5		1	202G	4
		1	470A	2
BACN10JC3		1	165	1
		1	174	1
		1	202R	4
BACP30GP5-5		1	465	
BACR12BM217		1	184	1
		1	190	1
BACR15BB4AD		1	267	4
		1	317	57
		1	347	6

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PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
BACS4OR005E010		1	375B	AR
BACS4OR08A50F		1	235	1
		1	218B	1
		1	229A	1
		1	229L	1
BACS4OR6D16F		1	375	
BACU24K16		1	131	1
BAC1534-126A		1	375A	AR
BAC27THY0045		1	44A	1
BAC27THY0046		1	42A	1
BAC27THY005		1	44	
BAC27THY006		1	42	
BAC27THY0115		1	32	1
BAC27THY0137		1	44L	1
BAC27THY0143		1	10B	1
BAC27THY0144		1	10C	1
BAC27THY0154		1	44P	1
BAC27THY12		1	10	
BAC27THY13		1	10A	
BAC27THY14		1	15	1
BAC27THY15		1	20	1
BAC27THY16		1	25	1
BAC27THY17		1	40A	1
BAC27THY29		1	37	1
BAC27THY35		1	30	1
BAC27THY36		1	35	1
BAC27THY37		1	40	
BRH10A3		1	165	1
		1	174	1
		1	202R	4
C11236-217B		1	184	1
		1	190	1
DBOA14BB20BD		1	181	1
		1	181	1
FER9078-20D		1	181	1
HL1187-5		1	202G	4
		1	470A	2
HL12-4		1	202A	4
HL12-5		1	465A	2
HL12VAZ5-4		1	202A	4
HL12VAZ5-5		1	465A	2
HL86PB5		1	202G	4
		1	202G	4
		1	202G	4
		1	470A	2
		1	470A	2
		1	470A	2

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 ILLUSTRATED PARTS LIST
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BOEING
 COMPONENT
 MAINTENANCE MANUAL

PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
HL87-5		1	202G	4
		1	202G	4
		1	202G	4
		1	470A	2
		1	470A	2
		1	470A	2
HTES06VC		1	219A	1
H10-3BAC		1	165	1
		1	174	1
		1	202R	4
KNDB6-64		1	219A	1
KSC130900B6GC		1	219A	1
L802-5K4		1	202A	4
L802-5K5		1	465A	2
MS20470D		1	269	1
MS21209F1-20		1	260	
		1	404	4
MS21209F4-15		1	255	
		1	417	4
MS21902D12		1	70	1
MS21902D16		1	71	2
		1	130	2
MS21902D20		1	80	1
MS21902D6		1	127	1
		1	150	1
MS21902D8		1	143	1
MS21913D8		1	140	
MS28773-20		1	183	1
NAS1080D5		1	218	
		1	228	
		1	234	
		1	470	
NAS1080D6		1	229	4
		1	218A	4
		1	227L	4
		1	228B	4
		1	234A	8
NAS1410DD20		1	182A	1
NAS1611-213		1	65	1
NAS1611-217		1	195	1
		1	184A	1
NAS1611-224		1	102	1
NAS1612-12		1	75	1
NAS1612-16		1	72	2
		1	135	2
NAS1612-20		1	85	1
		1	183A	1

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PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
NAS1612-4		1	125	1
NAS1612-6		1	95	1
		1	128	1
		1	155	1
NAS1612-8		1	145	1
		1	148	2
NAS1762D2020		1	180	
NAS18080D5		1	228A	
NAS6603-4		1	202K	4
NAS6603H2		1	105	
NAS6603H4		1	45	4
NAS6604H2		1	105A	4
NRR06ESGC		1	219A	1
NS202101-02		1	165	1
		1	174	1
		1	202R	4
PS53J		1	146	2
RMLH9075-3W		1	165	1
		1	174	1
		1	202R	4
RMR12BM217		1	184	1
		1	190	1
STF800-217		1	184	1
		1	190	1
S1105-01		1	120A	1
S1105-1		1	120	
S270T245-3		1	90A	1
S271T455-3		1	100	1
S30294-217-1		1	184	1
		1	190	1
TF450-217A		1	184	1
		1	190	1
T6S1032J		1	165	1
		1	174	1
		1	202R	4
VN303A02		1	165	1
		1	174	1
		1	202R	4
019-012-001		1	100	1
03-825-06E010		1	219A	1
10-60561-1		1	60	1
1122410		1	90	
1122493		1	90A	1
1800		1	185A	1
2-01047B20D		1	181	1
2LPYE5-4		1	216	
		1	226	

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 ILLUSTRATED PARTS LIST
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BOEING
 COMPONENT
 MAINTENANCE MANUAL

PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
2LPYE5-5		1	217	
		1	227	
		1	232	4
		1	226G	
2LPYE5-6		1	233	4
2LPYE6-4		1	216A	2
		1	226A	4
2LPYE6-5		1	217A	2
		1	226H	4
		1	227A	4
		1	184	1
2100-217		1	190	1
		1	320	1
271T0080-1		1	330	1
271T0080-2		1	322	1
271T0081-1		1	335	1
271T0082-1		1	340	1
271T0083-1		1	370	1
271T0085-1		1	237	1
271T0086-1		1	460	1
271T0087-1		1	365	1
271T0088-1		1	365A	1
271T0088-2		1	345	1
271T0089-1		1	350	1
271T0089-2		1	355	1
271T0089-3		1	345A	1
271T0089-4		1	380	1
271T0090-1		1	455	1
271T0094-1		1	425	1
271T0095-1		1	425A	1
271T0095-2		1	395	
271T0096-1		1	422	1
271T0096-2		1	400	
		1	423	2
		1	238	1
271T0098-1		1	230	1
271T0098-3		1	231	1
		1	225A	
271T0100-1		1	222	
		1	225	
271T0100-2		1	222A	1
271T0100-4		1	225B	1
		1	385	1
271T0103-1		1	386	1
271T0103-2		1	385A	
271T0103-3		1	325	1
271T0104-1		1		

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PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
271T0107-1		1	410	1
		1	412	2
271T0120-1		1	207	1
271T0120-2		1	208	1
271T0120-3		1	220	1
271T0120-4		1	221	1
271T0135-1		1	443	2
271T0142-1		1	207A	1
271T0142-2		1	208A	1
271T0142-3		1	220A	1
271T0142-4		1	221A	1
271T0148-1		1	407	1
271T5211-1		1	240	1
271T5211-10		1	240A	1
271T5211-11		1	390A	1
271T5211-12		1	421A	1
271T5211-13		1	240B	1
271T5211-14		1	245B	1
271T5211-2		1	245	1
271T5211-3		1	430	1
271T5211-4		1	435	1
271T5211-5		1	390	1
271T5211-6		1	421	1
271T5211-7		1	436	1
271T5211-8		1	437	1
271T5211-9		1	245A	1
271T5212-10		1	5B	
271T5212-12		1	5C	
271T5212-13		1	1B	
271T5212-14		1	200A	
271T5212-15		1	1C	
271T5212-16		1	5D	
271T5212-17		1	1D	
271T5212-18		1	201A	
271T5212-19		1	200B	
271T5212-2		1	5	
271T5212-21		1	1E	RF
271T5212-22		1	5E	RF
271T5212-23		1	1F	RF
271T5212-24		1	5F	RF
271T5212-25		1	1G	RF
271T5212-26		1	5G	RF
271T5212-27		1	200C	1
271T5212-28		1	201B	1
271T5212-29		1	201C	1
271T5212-30		1	200D	1
271T5212-31		1	1H	RF

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 ILLUSTRATED PARTS LIST
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BOEING
 COMPONENT
 MAINTENANCE MANUAL

PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
271T5212-33		1	1J	RF
271T5212-35		1	1K	RF
271T5212-37		1	200E	1
271T5212-39		1	200F	1
271T5212-4		1	201	
271T5212-41		1	1L	RF
271T5212-42		1	5H	RF
271T5212-43		1	1M	RF
271T5212-44		1	5J	RF
271T5212-45		1	1N	RF
271T5212-46		1	5L	RF
271T5212-47		1	1P	RF
271T5212-48		1	5M	RF
271T5212-49		1	1Q	RF
271T5212-5		1	1	
271T5212-50		1	5N	RF
271T5212-51		1	200G	1
271T5212-52		1	200H	1
271T5212-6		1	200	
271T5212-7		1	1A	
271T5212-8		1	5A	
271T5213-1		1	250	
		1	401	1
271T5213-4		1	401A	1
271T5213-5		1	401B	1
271T5214-3		1	420	1
271T5214-6		1	420A	1
271T5215-1		1	405	1
271T5215-2		1	405A	1
271T5217-1		1	450	1
271T5217-4		1	450A	1
271T5218-1		1	440	1
271T5218-3		1	442	1
271T5218-6		1	440A	1
271T5218-8		1	442A	1
271T5219-1		1	280	1
271T5219-2		1	285	1
271T5219-3		1	315	1
271T5219-7		1	280A	1
271T5219-8		1	315A	1
272T0041-10		1	204	
272T0041-13		1	204A	1
272T0041-9		1	203	1
3-111794		1	60	1
31788-20D		1	181	1
4680063-20D		1	181	1
60B00246-1		1	185B	1

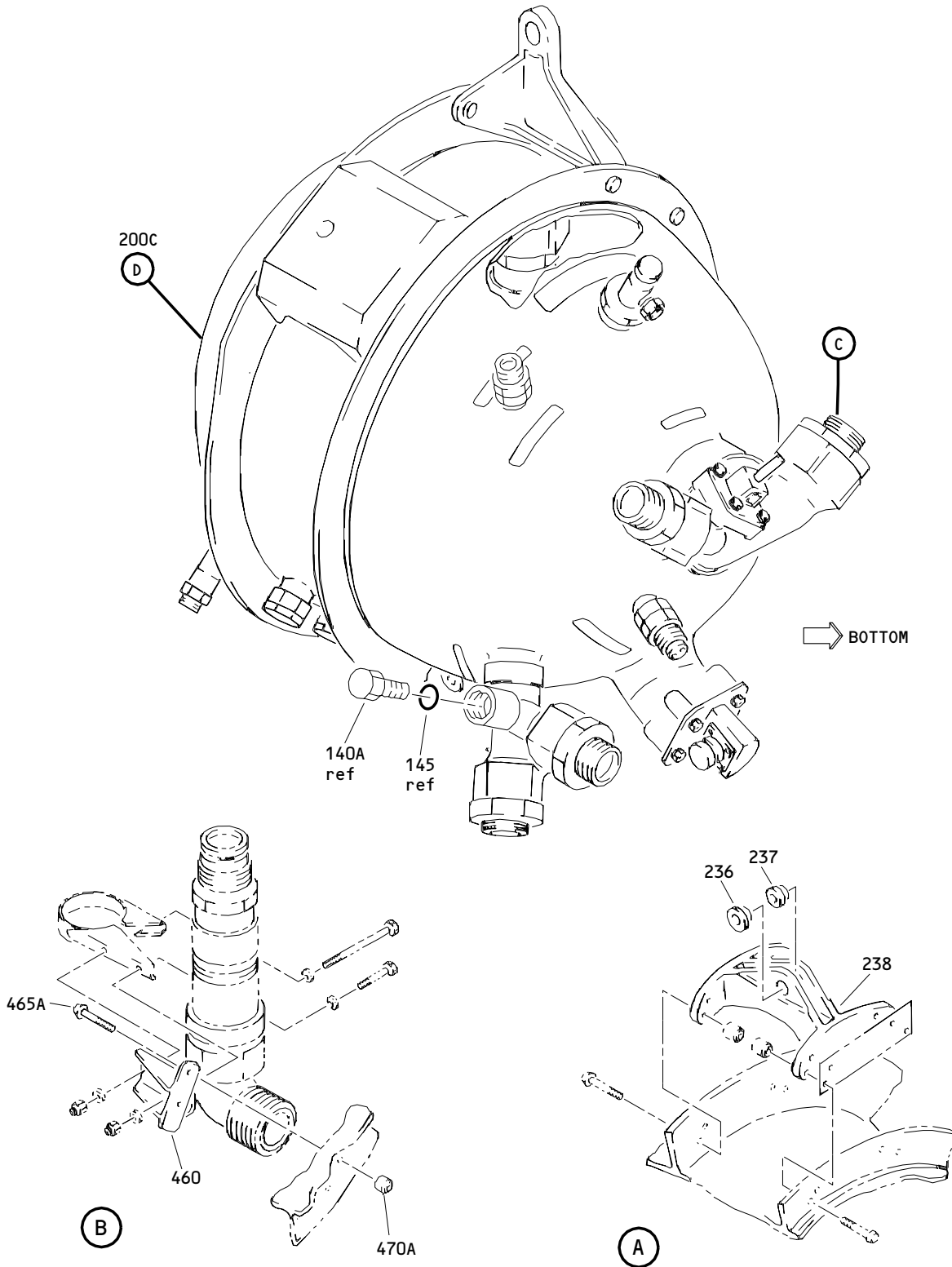
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PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
60B00246-2		1	185	
		1	185A	1
65B82509-1		1	445	1
65B82509-5		1	445B	1
69B80388-1		1	275	1
69B80826-1		1	173	1
69B80835-1		1	295	1
69B80838-1		1	290	1
69B80842-1		1	360	1
69B80850-1		1	415	1
69B80851-1		1	310	1
69B80852-1		1	300	1
69B80860-1		1	265	1
69B80860-2		1	270	1
72086		1	185B	1
96-02		1	165	1
		1	174	1
		1	202R	4

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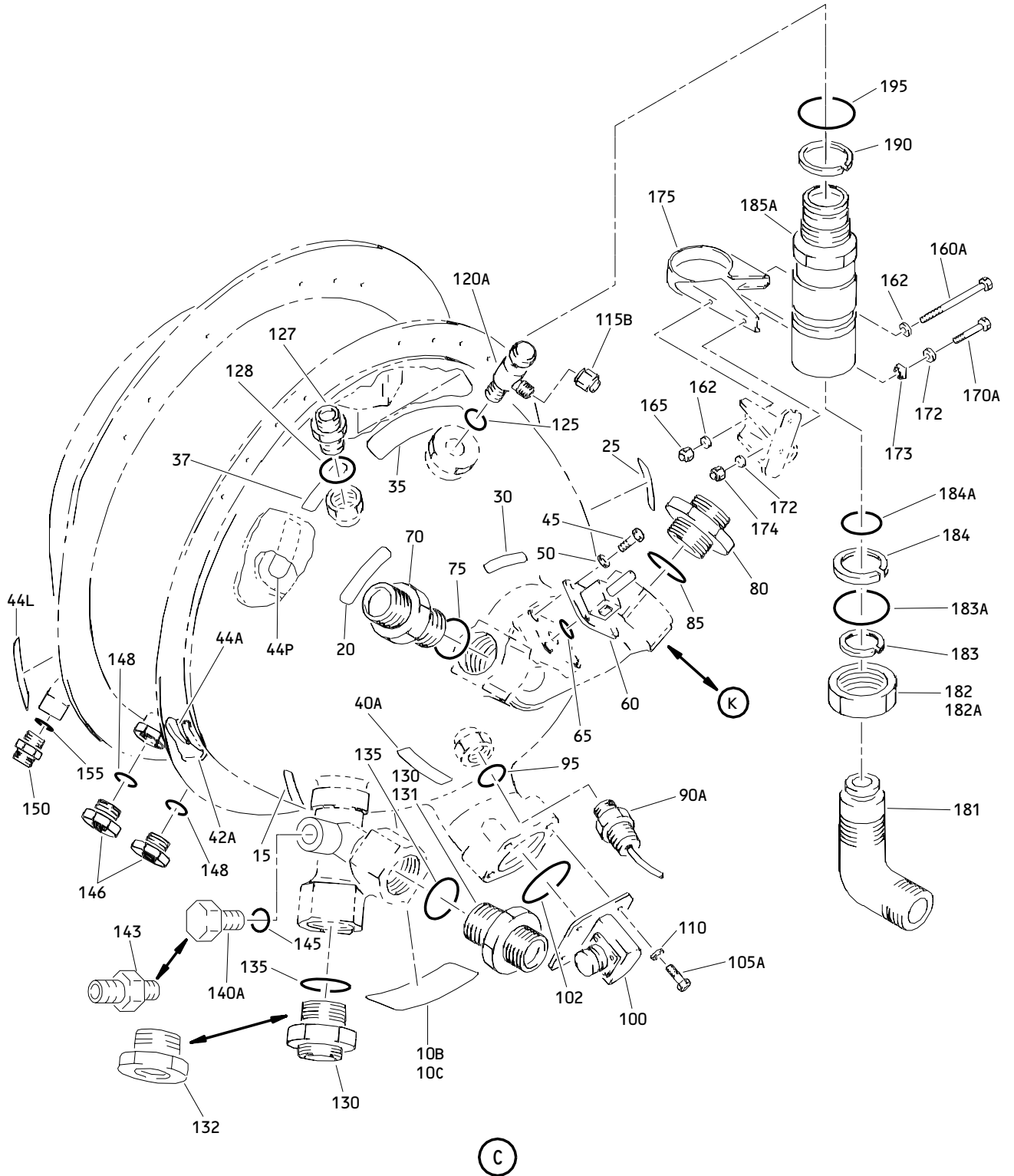
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Left and Right System Hydraulic Reservoir Assembly
Figure 1 (Sheet 1)

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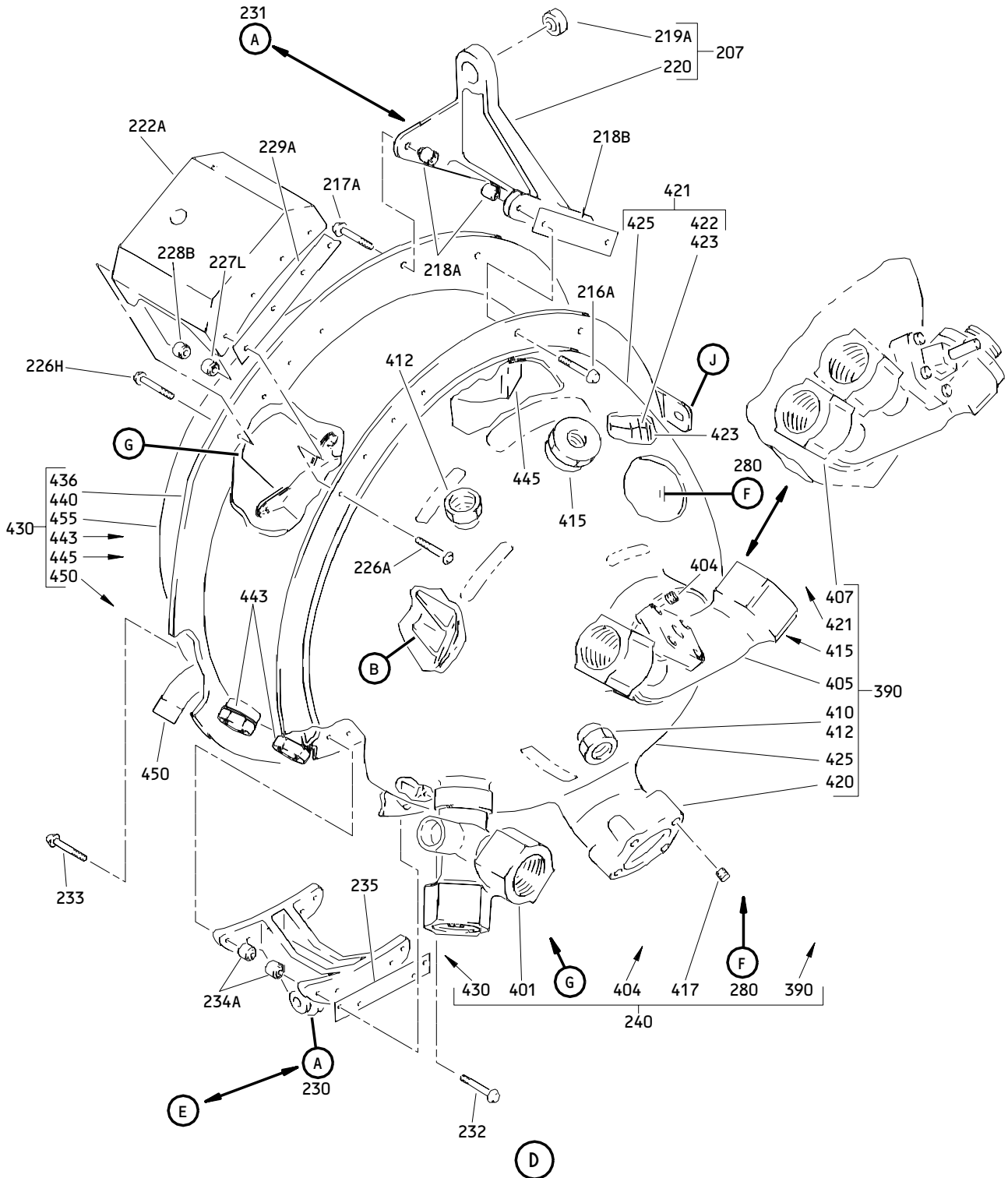
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Left and Right System Hydraulic Reservoir Assembly
Figure 1 (Sheet 2)

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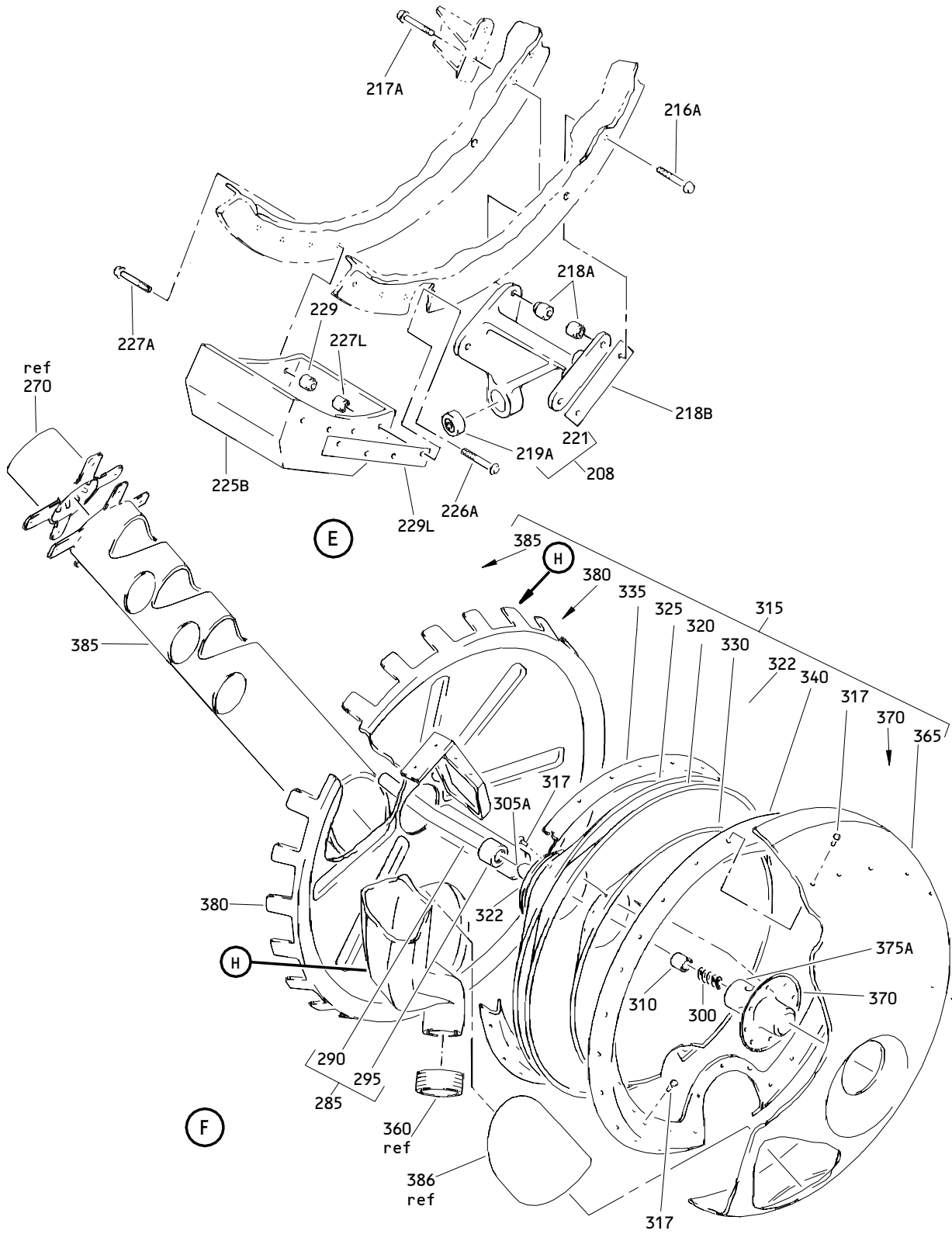
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Left and Right System Hydraulic Reservoir Assembly
 Figure 1 (Sheet 3)

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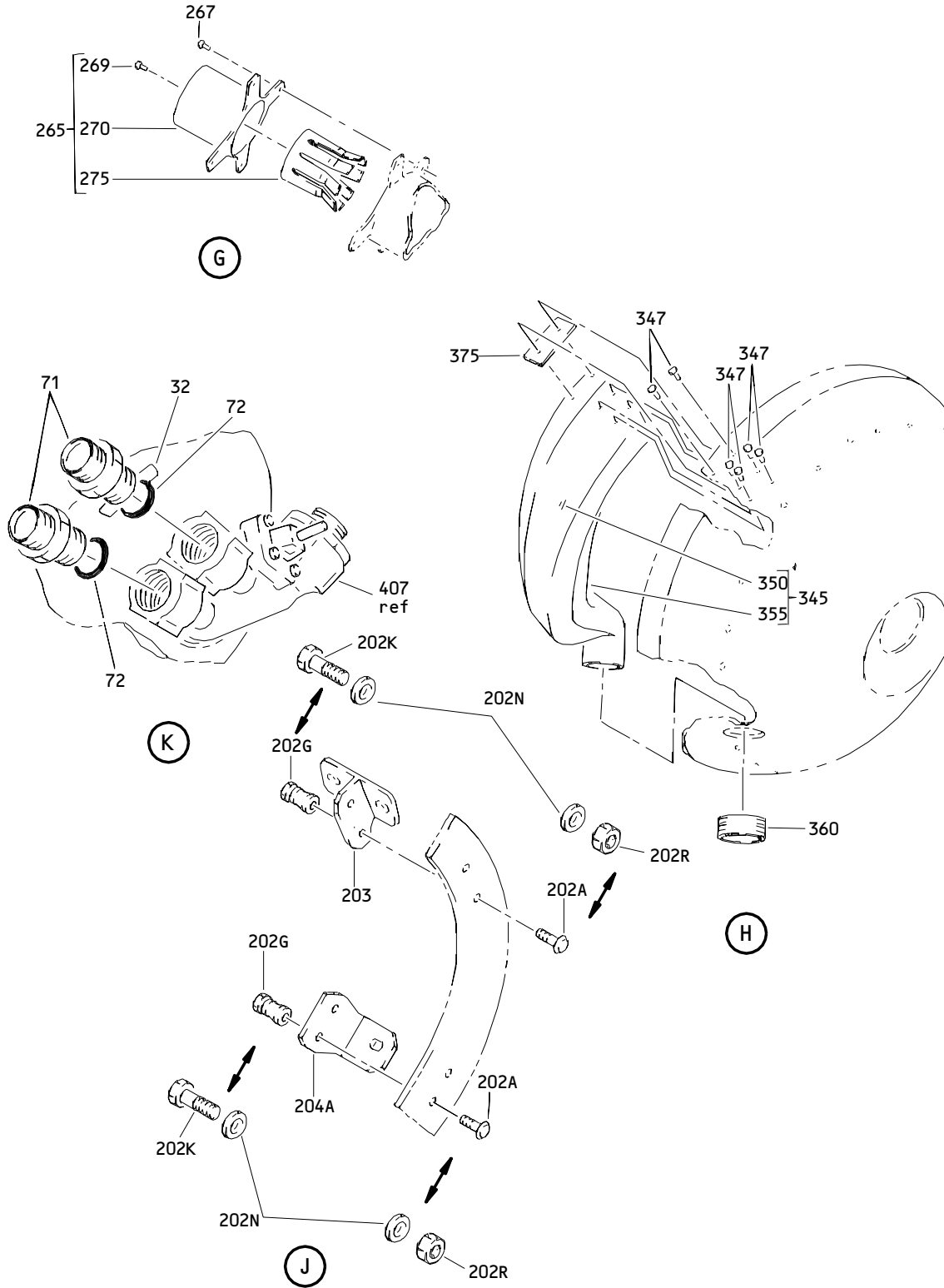
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Left and Right System Hydraulic Reservoir Assembly
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Left and Right System Hydraulic Reservoir Assembly
 Figure 1 (Sheet 5)

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-					
-1	271T5212-5		DELETED		
-1A	271T5212-7		DELETED		
-1B	271T5212-13		DELETED		
-1C	271T5212-15		DELETED		
-1D	271T5212-17		DELETED		
-1E	271T5212-21		RESERVOIR ASSY-LH SYS HYDR (PRE SB 767-29-7)	A	RF
-1F	271T5212-23		RESERVOIR ASSY-LH SYS HYDR (PRE SB 767-29-7)	B	RF
-1G	271T5212-25		RESERVOIR ASSY-LH SYS HYDR (PRE SB 767-29-7)	E	RF
-1H	271T5212-31		RESERVOIR ASSY-LH SYS HYDR (POST SB 767-29-7)	G	RF
-1J	271T5212-33		RESERVOIR ASSY-LH SYS HYDR (POST SB 767-29-7)	H	RF
-1K	271T5212-35		RESERVOIR ASSY-DELETED (POST SB 767-29-7)	U	RF
-1L	271T5212-41		RESERVOIR ASSY-LH SYS HYDR	J	RF
-1M	271T5212-43		RESERVOIR ASSY-LH SYS HYDR	K	RF
-1N	271T5212-45		RESERVOIR ASSY-LH SYS HYDR	L	RF
-1P	271T5212-47		RESERVOIR ASSY-LH SYS HYDR	Q	RF
-1Q	271T5212-49		RESERVOIR ASSY-LH SYS HYDR	S	RF
-5	271T5212-2		DELETED		
-5A	271T5212-8		DELETED		
-5B	271T5212-10		DELETED		
-5C	271T5212-12		DELETED		
-5D	271T5212-16		DELETED		
-5E	271T5212-22		RESERVOIR ASSY-RH SYS HYDR	C	RF
-5F	271T5212-24		RESERVOIR ASSY-RH SYS HYDR	D	RF
-5G	271T5212-26		RESERVOIR ASSY-RH SYS HYDR	F	RF
-5H	271T5212-42		RESERVOIR ASSY-RH SYS HYDR	M	RF
-5J	271T5212-44		RESERVOIR ASSY-RH SYS HYDR	N	RF
-5L	271T5212-46		RESERVOIR ASSY-RH SYS HYDR	P	RF
-5M	271T5212-48		RESERVOIR ASSY-RH SYS HYDR	R	RF
-5N	271T5212-50		RESERVOIR ASSY-RH SYS HYDR	T	RF
10	BAC27THY12		DELETED		
10A	BAC27THY13		DELETED		
10B	BAC27THY0143		.MARKER-ALUMINUM FOIL	A,B,E ,G-L, Q,S,U	1
10C	BAC27THY0144		.MARKER-ALUMINUM FOIL	C,D,F ,M-P, R,T	1

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-					
15	BAC27THY14		.MARKER-ALUMINUM FOIL-		1
20	BAC27THY15		.MARKER-ALUMINUM FOIL-		1
25	BAC27THY16		.MARKER-ALUMINUM FOIL-		1
30	BAC27THY35		.MARKER-ALUMINUM FOIL- RSVR DRAIN VALVE		1
32	BAC27THY0115		.MARKER-ALUMINUM FOIL- SUPPLY	E,F,L ,P,U	1
35	BAC27THY36		.MARKER-ALUMINUM FOIL- FLUID SAMPLING VALVE BMS 3-11 FLUID		1
37	BAC27THY29		.MARKER-ALUMINUM FOIL- THERMAL BYPASS	E,F,L ,P,U	1
40	BAC27THY37		DELETED		
40A	BAC27THY17		.MARKER-ALUMINUM		1
42	BAC27THY006		DELETED		
42A	BAC27THY0046		.MARKER-ALUMINUM FOIL- REFILL		1
44	BAC27THY005		DELETED		
44A	BAC27THY0045		.MARKER-ALUMINUM FOIL- OVERFILL		1
44L	BAC27THY0137		.MARKER-ALUMINUM FOIL-AIR PRESSURE		1
44P	BAC27THY0154		.MARKER-ALUMINUM FOIL		1
45	NAS6603H4		.BOLT		4
50	AN960PD10		.WASHER		4
60	3-111794		.VALVE-DRAIN (V92003) (SPEC 10-60561-1)		1
65	NAS1611-213		.PACKING		1
70	MS21902D12		.UNION	A-D, G-K,M ,N, Q-T	1

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-					
71	MS21902D16		.UNION	E,F,U	2
72	NAS1612-16		.PACKING	E,F,U	2
75	NAS1612-12		.PACKING	A-D, G-K,M ,N, Q-T	1
80	MS21902D20		.UNION		1
85	NAS1612-20		.PACKING		1
90	1122410		DELETED		
90A	1122493		.BULB-TEMP (V35918) (SPEC S270T245-3)		1
95	NAS1612-6		.PACKING		1
100	019-012-001		.TRANSMITTER-QTY. IND. (V26055) (SPEC S271T455-3)		1
102	NAS1611-224		.PACKING		1
105	NAS6603H2		DELETED		
105A	NAS6604H2		.BOLT		4
110	AN960PD416		.WASHER		4
115	AN929-2		DELETED		
115A	BACC14ADD04		DELETED		
115B	AN929A2		.CAP ASSY		1
120	S1105-1		DELETED		
120A	S1105-01		.VALVE-SAMPLING (V98939)		1
125	NAS1612-4		.PACKING		1
127	MS21902D6		.UNION		1
128	NAS1612-6		.PACKING		1
130	MS21902D16		.UNION	A-H,U	2
131	BACU24K16		.UNION	J-T	1

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-					
132	AN814-16D		.PLUG AND BLEEDER	J-T	1
135	NAS1612-16		.PACKING		2
140	MS21913D8		DELETED		
140A	AN814-8D		.PLUG AND BLEEDER	A,C, E-G,J L,M, P,Q,R U	1
-143	MS21902D8		.UNION	B,D,H K,N, S,T	1
145	NAS1612-8		.PACKING		1
146	PS53J		.GAUGE-SIGHT (V97484)		2
148	NAS1612-8		.PACKING		2
150	MS21902D6		.UNION		1
155	NAS1612-6		.PACKING		1
160	BACB30NT3C36		DELETED		
160A	BACB30NT3K36		.BOLT		1
162	AN960PD10		.WASHER		2
165	H10-3BAC		.NUT- (V15653) (SPEC BACN10JC3) (OPT NS202101-02 (V80539)) (OPT RMLH9075-3W (V72962)) (OPT T6S1032J (V71087)) (OPT VN303A02 (V92215)) (OPT 96-02 (V80539)) (OPT BRH10A3 (V52828))		1

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE	EFF CODE	QTY PER ASSY
			1234567		
01-					
170	BACB30NT3C3		DELETED		
170A	BACB30NT3C7		.BOLT		1
172	AN960PD10		.WASHER		2
173	69B80826-1		.FILLER		1
174	H10-3BAC		.NUT-		1
			(V15653)		
			(SPEC BACN10JC3)		
			(OPT NS202101-02		
			(V80539))		
			(OPT RMLH9075-3W		
			(V72962))		
			(OPT T6S1032J		
			(V71087))		
			(OPT VN303A02		
			(V92215))		
			(OPT 96-02		
			(V80539))		
			(OPT BRH10A3		
			(V52828))		
175	BACC10AA32-24		.CLAMP-LOOP		1
180	NAS1762D2020		DELETED		
181	AFP358-20D		.ADAPTER-		1
			(V30974)		
			(SPEC BACA14BB20BD)		
			(OPT DBOA14BB20BD		
			(V14798))		
			(OPT FER9078-20D		
			(V14397))		
			(OPT 2-01047B20D		
			(V11328))		
			(OPT 4680063-20D		
			(V50948))		
			(OPT AP1007-20D		
			(V01673))		
			(OPT DBOA14BB20BD		
			(V61498))		
			(OPT 31788-20D		
			(V14397))		

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-182	AN6289D20		.NUT- (ITEM 182A OPTIONAL TO ITEM 182 PLUS ITEM 183)		1
182A	NAS1410DD20		.NUT- (ITEM 182A OPTIONAL TO ITEM 182 PLUS ITEM 183)		1
183	MS28773-20		.RETAINER- (ITEM 182A OPTIONAL TO ITEM 182 PLUS ITEM 183)		1
183A	NAS1612-20		.PACKING		1
184	C11236-217B		.RING-BACK UP (V26879) (SPEC BACR12BM217) (OPT RMR12BM217 (V94878)) (OPT STF800-217 (V02107)) (OPT S30294-217-1 (V97820)) (OPT TF450-217A (V07128)) (OPT 2100-217 (V26303))		1
184A	NAS1611-217		.PACKING		1
185	60B00246-2		DELETED		
185A	1800		.VALVE-RELIEF (V06177) (SPEC 60B00246-2) (OPT ITEM 185B)		1
-185B	72086		.VALVE-RELIEF (V81982) (SPEC 60B00246-1) (OPT ITEM 185A)		1

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-190	C11236-217B		.RING-BACK-UP (V26879) (SPEC BACR12BM217) (OPT RMR12BM217 (V94878)) (OPT STF800-217 (V02107)) (OPT S30294-217-1 (V97820)) (OPT TF450-217A (V07128)) (OPT 2100-217 (V26303))		1
195	NAS1611-217		.PACKING		1
200	271T5212-6		DELETED		
200A	271T5212-14		DELETED		
200B	271T5212-19		DELETED		
200C	271T5212-27		.SUPPORT ASSY	A,B	1
-200D	271T5212-30		.SUPPORT ASSY	F,P	1
-200E	271T5212-37		.SUPPORT ASSY	G,H,J ,K	1
-200F	271T5212-39		.SUPPORT ASSY	L,U	1
-200G	271T5212-51		.SUPPORT ASSY	Q,S	1
-200H	271T5212-52		.SUPPORT ASSY	R,T	1
-201	271T5212-4		DELETED		
-201A	271T5212-18		DELETED		
-201B	271T5212-28		.SUPPORT ASSY	C,D,M ,N	1
-201C	271T5212-29		.SUPPORT ASSY	E	1
202	BACB2N5K4		DELETED		
202A	HL12VAZ5-4		.BOLT- (V56878) (SPEC BACB30NX5K4) (OPT HL12VAZ5-4 (V73197)) (OPT HL12VAZ5-4 (V92215)) (OPT HL12VAZ5-4 (V97928)) (OPT L802-5K4 (V06725)) (OPT HL12-4 (V06725))	A,B,E	4

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-202G	HL1187-5		..COLLAR- (V73197) (SPEC BACC30X5) (OPT HL87-5 (V73197)) (OPT HL87-5 (V92215)) (OPT HL86PB5 (V73197)) (OPT HL86PB5 (V56878)) (OPT HL86PB5 (V92215)) (OPT HL1187-5 (V56878)) (OPT HL1187-5 (V92215)) (OPT HL87-5 (V56878)) (OPT HL1187-5 (V5M902))	A,B,E	4
202K	NAS6603-4		..BOLT	G-L,Q ,S,U	4
202N	AN960PD10L		..WASHER	G-L,Q ,S,U	8
202R	H10-3BAC		..NUT- (V15653) (SPEC BACN10JC3) (OPT NS202101-02 (V80539)) (OPT RMLH9075-3W (V72962)) (OPT T6S1032J (V71087)) (OPT VN303A02 (V92215)) (OPT 96-02 (V80539)) (OPT BRH10A3 (V52828))	G-L,Q ,S,U	4

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01- 203	272T0041-9		..BRACKET	A,B,E ,G-L, Q,S,U	1
204 204A	272T0041-10 272T0041-13		DELETED ..BRACKET	A,B,E ,G-L, U	1
207	271T0120-1		..SUPPORT ASSY-FWD (OPT ITEM 207A)	A,B,E ,G-L, Q,S,U	1
-207A	271T0142-1		..SUPPORT ASSY-FWD (OPT ITEM 207)	A,B,E ,G-L, Q,S,U	1
208	271T0120-2		..SUPPORT ASSY-FWD (OPT ITEM 208A)	C,D,F ,M-P, R,T	1
-208A	271T0142-2		..SUPPORT ASSY-FWD (OPT ITEM 208)	C,D,F ,M-P, R,T	1
216 216A	2LPYE5-4 2LPYE6-4		ATTACHING PARTS DELETED ..BOLT- (V11815) (SPEC BACB30GP6-4) (OPT 2LPYE6-4 (V17446))		2
217 217A	2LPYE5-5 2LPYE6-5		DELETED ..BOLT- (V11815) (SPEC BACB30GP6-5) (OPT 2LPYE6-5 (V17446))		2

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-					
218	NAS1080D5		DELETED		
218A	NAS1080D6		..COLLAR		4
218B	BACS40R08A50F		..SHIM		1
			-----*-----		
219	BACB10ES0GC		DELETED		
219A	ADB6V301C		...BEARING- (V15860) (SPEC BACB10ES06GC) (OPT HTES06VC (V50294)) (OPT KNDB6-64 (V97613)) (OPT KSC130900B6GC (V50632)) (OPT NRR06ESGC (V73134)) (OPT 03-825-06E010 (V09455))		1
220	271T0120-3		...SUPPORT-FWD (USED ON ITEM 207)	A,B,E ,G-L, Q,S,U	1
-220A	271T0142-3		...SUPPORT-FWD (USED ON ITEM 207A)	A,B,E ,G-L, Q,S,U	1
221	271T0120-4		...SUPPORT-FWD (USED ON ITEM 208)	C,D,F ,M-P, R,T	1
-221A	271T0142-4		...SUPPORT-FWD (USED ON ITEM 208A)	C,D,F ,M-P, R,T	1
222	271T0100-1		DELETED		
222A	271T0100-4		..SUPPORT-AFT	A,B,E ,G-K, Q,S	1
225	271T0100-2		DELETED		
225A	271T0100-1		DELETED		
225B	271T0100-4		..SUPPORT-AFT	C,D,F ,M-P, R,T	1
			ATTACHING PARTS		

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01- 226 226A	2LPYE5-4 2LPYE6-4		DELETED ..BOLT- (V11815) (SPEC BACB30GP6-4) (OPT 2LPYE6-4 (V17446))		4
226G 226H	2LPYE5-5 2LPYE6-5		DELETED ..BOLT- (V11815) (SPEC BACB30GP6-5) (OPT 2LPYE6-5 (V17446))	A,B,E ,G-K, Q,S	4
227 227A	2LPYE5-5 2LPYE6-5		DELETED ..BOLT- (V11815) (SPEC BACB30GP6-5) (OPT 2LPYE6-5 (V17446))	C,D,F ,M-P, R,T	4
227L 228 228A 228B	NAS1080D6 NAS1080D5 NAS18080D5 NAS1080D6		..COLLAR DELETED DELETED ..COLLAR		4
229	NAS1080D6		..COLLAR	A,B,E ,G-K, Q,S C,D,F ,M-P, R,T	4
229A	BACS40R08A50F		..SHIM	A,B,E ,G-K, Q,S	1
229L	BACS40R08A50F		..SHIM	C,D,F ,M-P, R,T	1
230	271T0098-3		-----*----- ..SUPPORT ASSY-OUTBD	A,B,E ,G-K, Q,S	1
231	271T0098-3		..SUPPORT ASSY-OUTBD	C,D,F ,M-P, R,T	1
ATTACHING PARTS					

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-232	2LPYE5-5		..BOLT- (V11815) (SPEC BACB30GP5-5) (OPT 2LPYE5-5 (V17446))		4
233	2LPYE5-6		..BOLT- (V11815) (SPEC BACB30GP5-6) (OPT 2LPYE5-6 (V17446))		4
234	NAS1080D5		DELETED		
234A	NAS1080D6		..COLLAR		8
235	BACS40R08A50F		..SHIM -----*-----		1
236	BACB28X9M015		...BUSHING		1
237	271T0086-1		...BUSHING		1
238	271T0098-1		...SUPPORT		1
240	271T5211-1		..WELD ASSY	A,B,G ,H,J, K	1
-240A	271T5211-10		..WELD ASSY	F,P	1
-240B	271T5211-13		..WELD ASSY	Q,S	1
-245	271T5211-2		..WELD ASSY	C,D,M ,N	1
-245A	271T5211-9		..WELD ASSY	E,L,U	1
-245B	271T5211-14		..WELD ASSY	R,T	1
250	271T5213-1		DELETED		
255	MS21209F4-15		DELETED		
260	MS21209F1-20		DELETED		
265	69B80860-1		...COVER ASSY ATTACHING PARTS		1
267	BACR15BB4AD		...RIVET- (SIZE DETERMINE ON INST) -----*-----		4

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-269	MS20470D		....RIVET- (SIZE DETERMINE ON INST)		1
270	69B80860-2		....COVER		1
275	69B80388-1		....CLIP		1
280	271T5219-1		...TRAP ASSY-NEG-G	A-D, G-K,M ,N, Q-T	1
-280A	271T5219-7		...TRAP ASSY-NEG-G	E,F,L ,P,U	1
285	271T5219-2		....CAP ASSY-SUB		1
290	69B80838-1		.....TUBE		1
295	69B80835-1		.....CAP-CHECK		1
300	69B80852-1		....SPRING		1
305	BACB10TM2-32		DELETED		
305A	BACB10TM2-32A		....BALL- (V27545) (SPEC BACB10TM2-32A) (OPT BACB10TM2-32A (V52676)) (OPT ITEM 305B)		1
-305B	BACB10TC2-32A	BALL- (V27545) (SPEC BACB10TC2-32A) (OPT BACB10TC2-32A (V52676)) (OPT ITEM 305A)		1
310	69B80851-1	CUP		1
315	271T5219-3	TRAP SUB ASSY-NEG-G	A-D, G-K,M ,N, Q-T	1

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01- -315A	271T5219-8		....TRAP SUB ASSY-NEG-G	E,F,L ,P,U	1
317	BACR15BB4AD		ATTACHING PARTS....RIVET- (SIZE DETERMINE ON INST) -----*-----		57
320	271T0080-1		.....SUPPORT-SCREEN		1
322	271T0081-1		.....COLLAR-SCREEN		1
325	271T0104-1		.....SCREEN-ANTI FOAM		1
330	271T0080-2		.....SCREEN-SPLICE STRIP		1
335	271T0082-1		.....RING-UPR FLANGE		1
340	271T0083-1		.....RING-LWR FLANGE		1
345	271T0089-1		.....DIFFUSER ASSY- (OPT ITEM 345A)		1
-345A	271T0089-4		.....DIFFUSER ASSY- (OPT ITEM 345) ATTACHING PARTS		1
347	BACR15BB4AD		.....RIVET- (SIZE DETERMINE ON INST) -----*-----		6
350	271T0089-2		.....DIFFUSER HALF-UPR		1
355	271T0089-3		.....DIFFUSER HALF-LWR		1
360	69B80842-1		.....INSERT		1
365	271T0088-1		.....PAN	A-D, G-K,M ,N, Q-T	1
-365A	271T0088-2		.....PAN	E,F,L ,P,U	1
370	271T0085-1	BODY-CHECK VALVE		1
375	BACS40R6D16F		DELETED		
375A	BAC1534-126A	SPACER- (OPT ITEM 375B)		AR

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01- -375B	BACS40R005E010		.....SPACER- (OPT ITEM 375A)		AR
380	271T0090-1		.....COVER		1
385	271T0103-1		.....TUBE-PROBE		1
385A	271T0103-3		DELETED		
386	271T0103-2		.....TUBE-PROBE		1
390	271T5211-5		...WELDMENT ASSY-LWR	A-D, G-K,M ,N, Q-T	1
-390A	271T5211-11		...WELDMENT ASSY-LWR	E,F,L ,P	1
395	271T0096-1		DELETED		
400	271T0096-2		DELETED		
401	271T5213-1		....BOSS-RETURN (OPT ITEMS 401A AND 401B)		1
-401A	271T5213-4		....BOSS-RETURN (OPT ITEM 401)		1
-401B	271T5213-5		....BOSS-RETURN (OPT ITEM 401)		1
404	MS21209F1-20		....INSERT		4
405	271T5215-1	MANIFOLD- (OPT ITEM 405A)	A-D, G-K,M ,N, Q-T	1
-405A	271T5215-2	MANIFOLD- (OPT ITEM 405)	A-D, G-K,M ,N, Q-T	1

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01- 407	271T0148-1		....MANIFOLD	E,F,L ,P,U	1
410	271T0107-1		....BOSS-TEMP BULB	A-D, G-K,M ,N, Q-T	1
412	271T0107-1		....BOSS-TEMP BULB	E,F,L ,P,U	2
415	69B80850-1		....BOSS-SAMPLE VALVE		1
417	MS21209F4-15		....INSERT		4
420	271T5214-3		....BOSS-QTY INDICATOR (OPT ITEM 420A)		1
-420A	271T5214-6		....BOSS-QTY INDICATOR (OPT ITEM 420)		1
421	271T5211-6		....BRAZE ASSY-DIP	A-D, G-K,M ,N, Q-T	1
-421A	271T5211-12		....BRAZE ASSY-DIP	E,F,L ,P,U	1
422	271T0096-1		.....RING ASSY-SPRT		1
423	271T0096-2		.....RING HALF		2
425	271T0095-1		.....SHELL-LOWER	A-D, G-K,M ,N, Q-T	1
-425A	271T0095-2	SHELL-LOWER	E,F,L ,P,U	1
430	271T5211-3		...WELDMENT ASSY-UPR	A,B,E ,G-L, Q,S,U	1

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01- -435	271T5211-4		...WELDMENT ASSY-UPR	C,D,F ,M-P, R,T	1
436	271T5211-7		....BRAZE ASSY-DIP	A,B,E ,G-L, Q,S,U	1
-437	271T5211-8		....BRAZE ASSY-DIP	C,D,F ,M-P, R,T	1
440	271T5218-1		.....RING-SPRT (OPT ITEM 440A)	A,B,E ,G-L, Q,S,U	1
-440A	271T5218-6		.....RING-SPRT (OPT ITEM 440)	A,B,E ,G-L, Q,S,U	1
-442	271T5218-3		.....RING-SPRT (OPT ITEM 442A)	C,D,F ,M-P, R,T	1
-442A	271T5218-8		.....RING-SPRT (OPT ITEM 442)	C,D,F ,M-P, R,T	1
443	271T0135-1		.....FITTING-BOSS		2
445	65B82509-1		....ELBOW-RELIEF VALVE (OPT ITEM 445A)		1
445B	65B82509-5		....ELBOW-RELIEF VALVE (OPT ITEM 445)		1
450	271T5217-1	BOSS-AIR PRESS (OPT ITEM 450A)		1
-450A	271T5217-4	BOSS-AIR PRESS (OPT ITEM 450)		1
455	271T0094-1	SHELL-UPR		1

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FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
01-460	271T0087-1		..SUPPORT-WELD ASSY ATTACHING PARTS		1
465 465A	BACP30GP5-5 HL12VAZ5-5		DELETED ..BOLT- (V56878) (SPEC BACB30NX5K5) (OPT HL12VAZ5-5 (V73197)) (OPT HL12VAZ5-5 (V92215)) (OPT HL12VAZ5-5 (V97928)) (OPT L802-5K5 (V06725)) (OPT HL12-5 (V06725))		2
470 470A	NAS1080D5 HL1187-5		DELETED ..COLLAR- (V73197) (SPEC BACC30X5) (OPT HL87-5 (V73197)) (OPT HL87-5 (V92215)) (OPT HL86PB5 (V73197)) (OPT HL86PB5 (V56878)) (OPT HL86PB5 (V92215)) (OPT HL1187-5 (V56878)) (OPT HL1187-5 (V92215)) (OPT HL87-5 (V56878)) (OPT HL1187-5 (V5M902)) -----*		2

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