COMPONENT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS LIST

STANDBY SYSTEM HYDRAULIC RESERVOIR ASSEMBLY

PART NUMBER 276A3100–10, –7

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COMPONENT MAINTENANCE MANUAL

Revision No. 10
Jul 01/2009

To: All holders of STANDBY SYSTEM HYDRAULIC RESERVOIR ASSEMBLY 29-15-01.

Attached is the current revision to this COMPONENT MAINTENANCE MANUAL

The COMPONENT MAINTENANCE MANUAL is furnished either as a printed manual, on microfilm, or digital products, or any combination of the three. This revision replaces all previous microfilm cartridges or digital products. All microfilm and digital products are reissued with all obsolete data deleted and all updated pages added.

For printed manuals, changes are indicated on the List of Effective Pages (LEP). The pages which are revised will be identified on the LEP by an R (Revised), A (Added), O (Overflow, i.e. changes to the document structure and/or page layout), or D (Deleted). Each page in the LEP is identified by Chapter-Section-Subject number, page number and page date.

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

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Location of Change	Description of Change
	NO HIGHLIGHTS

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

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COMPONENT MAINTENANCE MANUAL

TEMPORARY REVISION AND SERVICE BULLETIN RECORD

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVE	DATE OF INCORPORATION INTO MANUAL
		PRR 38054	Jun 01/97

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

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

Revision		Filed	
Number	Date	Date	Initials

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

Temporary Revision		Inserted		Removed	
Number	Date	Date	Initials	Date	Initials

Temporary Revision		Inserted		Removed	
Date	Initials	Number	Date	Date	Initials

Temporary Revision		Inserted		Removed	
Number	Date	Date	Initials	Date	Initials

Temporary Revision		Inserted		Removed	
Date	Initials	Number	Date	Date	Initials

INTRODUCTION

1. General

A. The instructions in this manual supply the data necessary to do the maintenance functions together with the test, fault isolation, repair, and replacement of the defective parts.

B. This manual is divided into different parts:

(1) Title Page

(2) Transmittal Letter

(3) Highlights

(4) List of Effective Pages

(5) Table of Contents

(6) Temporary Revision & Service Bulletin Record

(7) Record of Revisions

(8) Record of Temporary Revisions

(9) Introduction

(10) Procedures & IPL Sections

C. Components that can be repaired have a different repair number for each specified repair. To find the repair number location of a component, look in the Repair-General procedure at the beginning of the REPAIR section. The Repair-General procedure also has an explanation of the True Position Dimension symbols used.

D. All dimensions, measures, quantities and weights included are in English units. When metric equivalents are given they will be in the parentheses that follow the English units.

E. The introduction to the Illustrated Parts List (IPL) shows how the IPL data is used.

F. Design changes, optional parts, configuration differences and Service Bulletin modifications may cause different part numbers. These part numbers are identified in the IPL with an alphabetical letter which is added to the end of the basic item number. This new item number is referred to as an alpha-variant. Throughout the manual, IPL basic item number references also apply to alpha-variants unless shown differently.

G. The tool reference numbers found in the individual procedures and in the Special Tools, Fixtures, and Equipment section are used to identify if a tool is a standard tool (STD-XXXX), a commercial tool (COM-XXXX), or a Special Tool (SPL-XXXX). This reference number is also used to distinguish between tools with similar names in the same procedure. These reference numbers are for use in the documentation only. They are not to be used for ordering tools.

STANDBY SYSTEM HYDRAULIC RESERVOIR ASSEMBLY - DESCRIPTION AND OPERATION

1. Description

A. The standby system hydraulic reservoir assembly supplies hydraulic fluid to the standby hydraulic system. The reservoir assembly is a pressure vessel with a metal shell, return and supply baffles, supply, return, overflow and vent ports, and hydraulic fittings. The unit can have a quantity level transmitter.

2. Operation

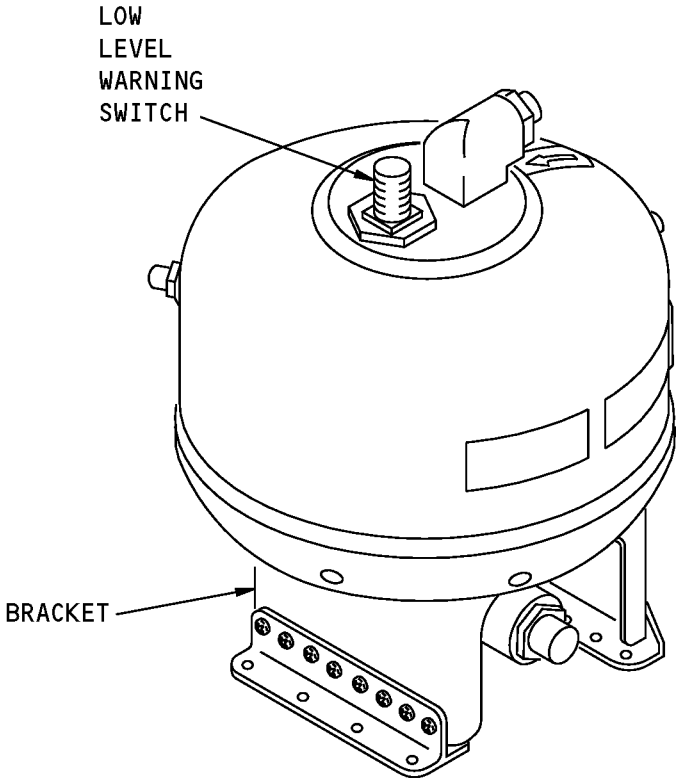
A. Hydraulic fluid stored in the reservoir is supplied to the standby system pump. Fluid returned from operation of the standby system components is received in the standby system reservoir.

3. Leading Particulars (Approximate)

A. Diameter – 12 inches

B. Height – 15.5 inches

C. Weight – 8.8 pounds



Standby System Hydraulic Reservoir Assembly
Figure 1

TESTING AND FAULT ISOLATION

1. General

A. This procedure has the data necessary to do a test of the mechanism after an overhaul or for fault isolation of the hydraulic reservoir assembly.

B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.

2. Testing and Fault Isolation

A. Tools/Equipment

NOTE: Equivalent substitutes may be used.

Reference	Description
STD-4092	Test Stand - Hydraulic, 0 psi to 120 psi

B. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
D00153	Fluid - Hydraulic, Erosion Arresting, Fire Resistant	BMS3-11 Type IV (interchange˜able & intermixable with Type V)

C. Procedure

(1) Use 0 psi to 120 psi hydraulic test stand, STD-4092 to supply test fluid at 100 psi.

(2) Fill the tank with a solution of water plus 0.02% sodium dichromate by weight, or fluid, D00153 as test fluid.

(3) Apply a proof pressure of 100 psi to the reservoir assembly for a period of 5 minutes. There must be no external leakage or permanent set.

3. Fault Isolation

A. Refer to TESTING AND FAULT ISOLATION, Table 101 for fault isolation.

Table 101: Fault Isolation Chart

TROUBLE	PROBABLE CAUSE	CORRECTION
Leakage around ports, or assembly seams.	Defective brazed joints	Replace reservoir.

DISASSEMBLY

1. General

A. This procedure has the data necessary to disassemble the hydraulic reservoir assembly (1A).

B. Disassemble this component sufficiently to isolate the defects, do the necessary repairs, and put the component back to a serviceable condition.

C. Refer to IPL Figure 1 for item numbers as applicable.

2. Disassembly

A. Procedure

(1) Use standard industry procedures to disassemble this component.

(2) If tank assembly (60) will be repaired or refinished:

(a) Remove the disconnect couplings (45, 50), union (35), valve (30), reducer (5) and packing (10, 40, 55).

(b) Remove the low level warning switch (15).

(NOT APPLICABLE)

CHECK

1. **General**
   A. This procedure has the data necessary to find defects in the material of the specified parts.
   B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
   C. Refer to IPL Figure 1 for item numbers.
2. **Check**
   A. Look through the openings of the tank to see if baffles (90) are intact in position.
   B. Examine the low level warning switch (15) by the vendor's instructions.

REPAIR

1. General

A. Instructions for repair, refinish, and replacement of the specified subassembly parts are included in each REPAIR when applicable:

PART NUMBER	NAME	REPAIR
- - -	REFINISH OF OTHER PARTS	1-1
276A3301	TANK ASSEMBLY	2-1
BACM10V21-2LG BAC27DHY1 BAC27DHY17 BAC27DHY384	MARKER REPLACEMENT	3-1

2. Dimensioning Symbols

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

—	STRAIGHTNESS
▱	FLATNESS
⊥	PERPENDICULARITY (OR SQUARENESS)
//	PARALLELISM
○	ROUNDNESS
⌭	CYLINDRICITY
⌒	PROFILE OF A LINE
⌓	PROFILE OF A SURFACE
◎	CONCENTRICITY
⌯	SYMMETRY
∠	ANGULARITY
↗	RUNOUT
⌰	TOTAL RUNOUT
⌴	COUNTERBORE OR SPOTFACE
⌵	COUNTERSINK
⌖	THEORETICAL EXACT POSITION OF A FEATURE (TRUE POSITION)
Ø	DIAMETER
S Ø	SPHERICAL DIAMETER
R	RADIUS
SR	SPHERICAL RADIUS
()	REFERENCE
BASIC (BSC) OR [DIM]	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.
[-A-]	DATUM
Ⓜ	MAXIMUM MATERIAL CONDITION (MMC)
Ⓛ	LEAST MATERIAL CONDITION (LMC)
Ⓢ	REGARDLESS OF FEATURE SIZE (RFS)
Ⓟ	PROJECTED TOLERANCE ZONE
FIM	FULL INDICATOR MOVEMENT
TIR	TOTAL INDICATOR READING

EXAMPLES

[— | 0.002]	STRAIGHT WITHIN 0.002
[⊥ | 0.002 | B]	PERPENDICULAR TO B WITHIN 0.002
[// | 0.002 | A]	PARALLEL TO A WITHIN 0.002
[○ | 0.002]	ROUND WITHIN 0.002
[⌭ | 0.010]	CYLINDRICAL SURFACE MUST LIE BETWEEN TWO CONCENTRIC CYLINDERS, ONE OF WHICH HAS A RADIUS 0.010 INCH GREATER THAN THE OTHER
[⌒ | 0.006 | A]	EACH LINE ELEMENT OF THE SURFACE AT ANY CROSS SECTION MUST LIE BETWEEN TWO PROFILE BOUNDARIES 0.006 INCH APART RELATIVE TO DATUM PLANE A
[⌓ | 0.020 | A]	SURFACES MUST LIE WITHIN PARALLEL BOUNDARIES 0.02 INCH APART AND EQUALLY DISPOSED ABOUT TRUE PROFILE
[◎ | Ø 0.0005 | C]	CONCENTRIC TO C WITHIN 0.0005 DIAMETER
[⌯ | 0.010 | A]	SYMMETRICAL WITH A WITHIN 0.010
[∠ | 0.005 | A]	ANGULAR TOLERANCE 0.005 WITH A
[⌖ | Ø 0.002 Ⓢ | B]	LOCATED AT TRUE POSITION WITHIN 0.002 DIA RELATIVE TO DATUM B, REGARDLESS OF FEATURE SIZE
[⊥ | Ø 0.010 Ⓜ | A] [0.510 Ⓟ]	AXIS IS TOTALLY WITHIN A CYLINDER OF 0.010-INCH DIAMETER, PERPENDICULAR TO, AND EXTENDING 0.510-INCH ABOVE, DATUM A, MAXIMUM MATERIAL CONDITION
[2.000] OR 2.000 BSC	THEORETICALLY EXACT DIMENSION IS 2.000

NOTE: DATUM MAY APPEAR AT EITHER SIDE OF TOLERANCE FRAME [0.020 | A] [A | 0.020]

True Position Dimensioning Symbols
Figure 601

REFINISH OF OTHER PARTS - REPAIR 1-1

1. General

A. This procedure has the data necessary to refinish the parts which are not given in the other repairs.

B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.

C. Refer to IPL Figure 1 for item numbers.

2. Refinish of Other Parts

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
C00259	Primer - Chemical And Solvent Resistant Finish, Epoxy Resin	BMS10-11, Type I
C00260	Coating - Chemical And Solvent Resistant Finish, Epoxy Resin Enamel	BMS10-11, Type II

B. References

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

C. General

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

D. Procedure

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

(1) Refer to REPAIR 1-1, Table 601 for refinish details.

Table 601: Refinish details

IPL FIG. & ITEM	MATERIAL	FINISH
IPL Fig. 1		
Bracket (122,123, 125,130)	Aluminum alloy	Chemical treat (F-17.07). Apply primer, C00259 (F-20.02) Apply enamel coating, C00260, color 707 gray gloss (F-21.02).

TANK ASSEMBLY - REPAIR 2-1

276A3301–5, –6, –7

1. General

A. This procedure has the data necessary to repair and refinish the tank assembly (60).

B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.

C. Refer to IPL Figure 1 for item numbers.

2. Tank Assembly Repair

NOTE: For stripping of protective finishes, refer to SOPM 20-30-02. For general cleaning procedure, refer to SOPM 20-30-03. For miscellaneous materials, refer to SOPM 20-60-04.

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
G02408	Abrasive - Paper, #50 to #400 grit	

B. References

Reference	Title
SOPM 20-30-02	STRIPPING OF PROTECTIVE FINISHES
SOPM 20-30-03	GENERAL CLEANING PROCEDURES
SOPM 20-60-04	MISCELLANEOUS MATERIALS

C. Repair

CAUTION: DO NOT REMOVE MATERIAL INSIDE OF, OR WITHIN 0.5 INCH OF RADIUSED AREAS OF TRANSITION FROM CYLINDRICAL TO SPHERICAL FORM. MULTIPLE BLEND-OUT REPAIRS IN THE SAME RESERVOIR LOCATION MUST NOT EXCEED MAXIMUM DEPTH VALUES SHOWN BELOW.

(1) Smooth and blend out areas of minor corrosion damage to tank assembly (60). In areas of cylindrical form (tank sides), blend to a maximum depth of 0.013 inch. In areas of spherical form (end domes), blend to a maximum depth of 0.010 inch. Refinish as necessary for protection against corrosion.

(2) Remove light corrosion and minor defects from miscellaneous metal parts by polishing with #50 to #400 grit abrasive paper, G02408, 220 grit, or finer. Refinish as necessary for protection against corrosion.

D. Replacement

(1) If welded bosses, flanges, or elbows are unserviceable, replace entire tank assembly (60). Heat-treat of the assembly makes weld repairs impractical.

3. Tank Assembly Refinish

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
C00259	Primer - Chemical And Solvent Resistant Finish, Epoxy Resin	BMS10-11, Type I
C00260	Coating - Chemical And Solvent Resistant Finish, Epoxy Resin Enamel	BMS10-11, Type II

B. References

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

C. Procedure

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

(1) Protect nameplate and markers by masking.

(2) Chemical treat interior and exterior surfaces (F-17.07).

(3) Apply primer, C00259 (F-20.02).

(4) Apply enamel coating, C00260 (F-21.02) on exterior surfaces only.

(5) Do not apply primer or enamel on boss faces, o-ring seats or threads.

MARKER REPLACEMENT - REPAIR 3-1

BACM10V21-2JG, BAC27DHY1, BAC27DHY17, BAC27DHY384

1. General

A. This procedure has the data to replace the markers.

B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.

C. Refer to IPL Figure 1 for item numbers.

2. Replacement of Markers

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
B00571	Coating - Clear Hydraulic Fluid Resistant Topcoat	BAC5710, Type 41

B. References

Reference	Title
SOPM 20-30-02	STRIPPING OF PROTECTIVE FINISHES
SOPM 20-30-03	GENERAL CLEANING PROCEDURES
SOPM 20-41-01	DECODING TABLE FOR BOEING FINISH CODES
SOPM 20-50-05	APPLICATION OF ALUMINUM FOIL AND OTHER MARKERS
SOPM 20-50-10	APPLICATION OF STENCILS, INSIGNIA, SILK SCREEN, PART NUMBERING AND IDENTIFICATION MARKINGS
SOPM 20-60-02	FINISHING MATERIALS

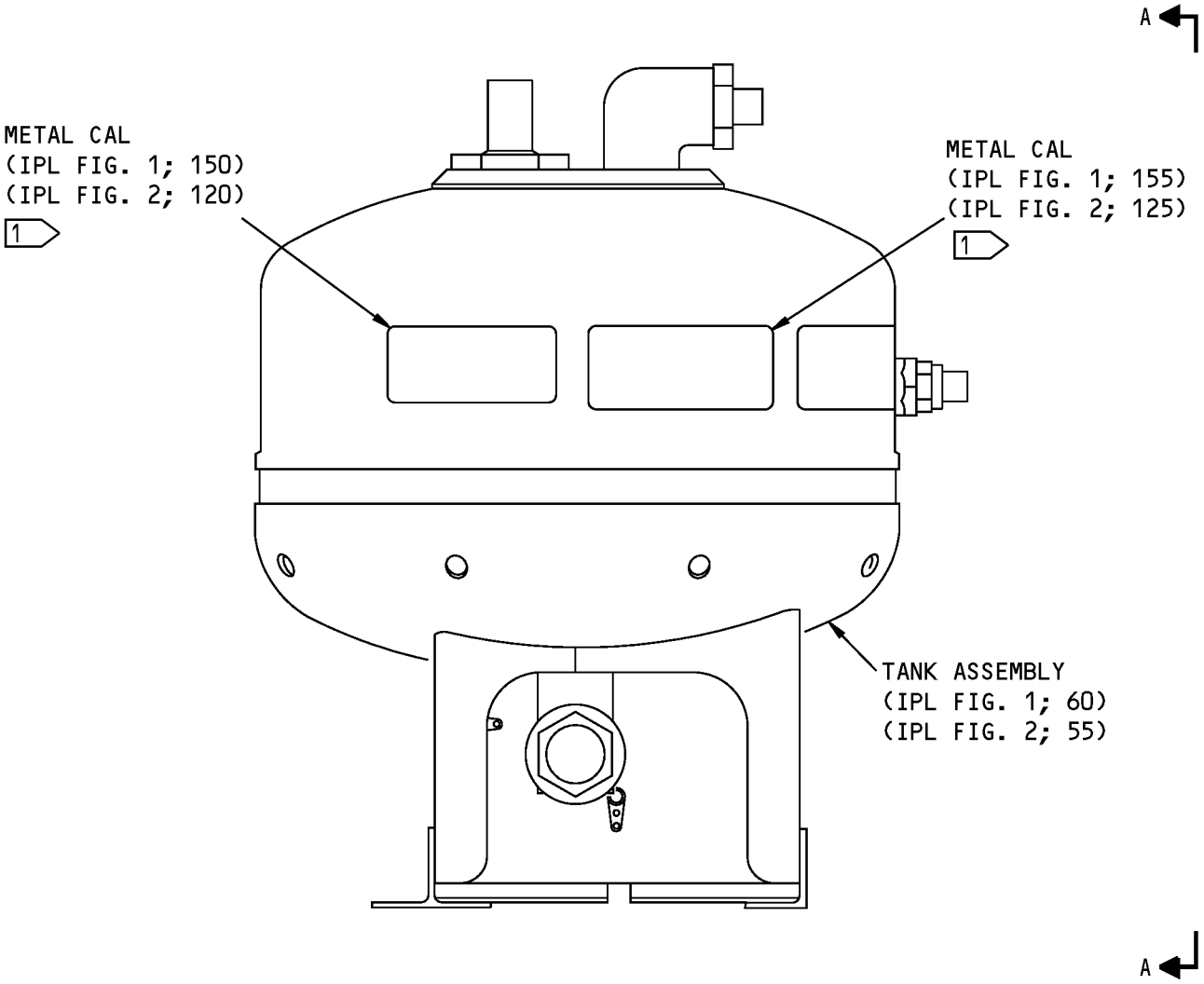
C. Procedure (REPAIR 3-1, Figure 601)

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

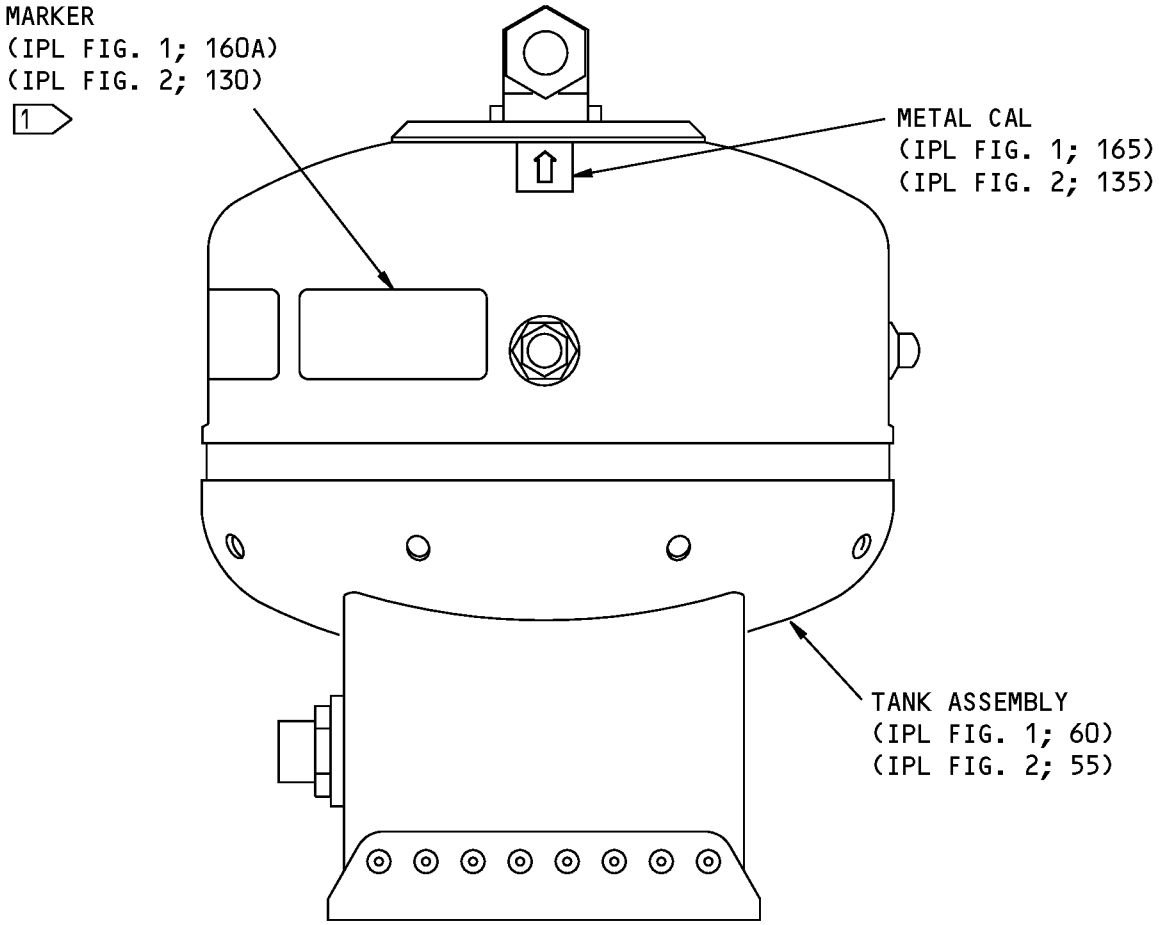
(1) Make sure arrow on marker BACM10V21-2JG (135, 165) points in direction shown (SOPM 20-50-10).

(2) Install self-adhesive markers as shown (SOPM 20-50-05).

(3) Apply clear resistant coating, B00571 (F-21.34) to the markers and out a minimum of 0.35 inch from the marker edges.



Marker Replacement
Figure 601 (Sheet 1 of 2)



A–A

1 LOCATE APPROXIMATELY AS SHOWN.

Marker Replacement
Figure 601 (Sheet 2 of 2)

ASSEMBLY

1. General

A. This procedure has the data necessary to assemble the hydraulic reservoir assembly (1A).

B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.

C. Refer to IPL Figure 1 for item numbers.

2. Assembly

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS 5-95
D00054	Fluid - Hydraulic Assembly Lubricant - MCS 352B (Formerly Monsanto MCS 352B)	

B. References

Reference	Title
SOPM 20-30-03	GENERAL CLEANING PROCEDURES
SOPM 20-50-01	BOLT AND NUT INSTALLATION
SOPM 20-50-06	INSTALLATION OF O-RINGS AND TEFLON SEALS
SOPM 20-50-07	LUBRICATION
SOPM 20-60-03	LUBRICANTS
SOPM 20-60-04	MISCELLANEOUS MATERIALS

C. Procedure

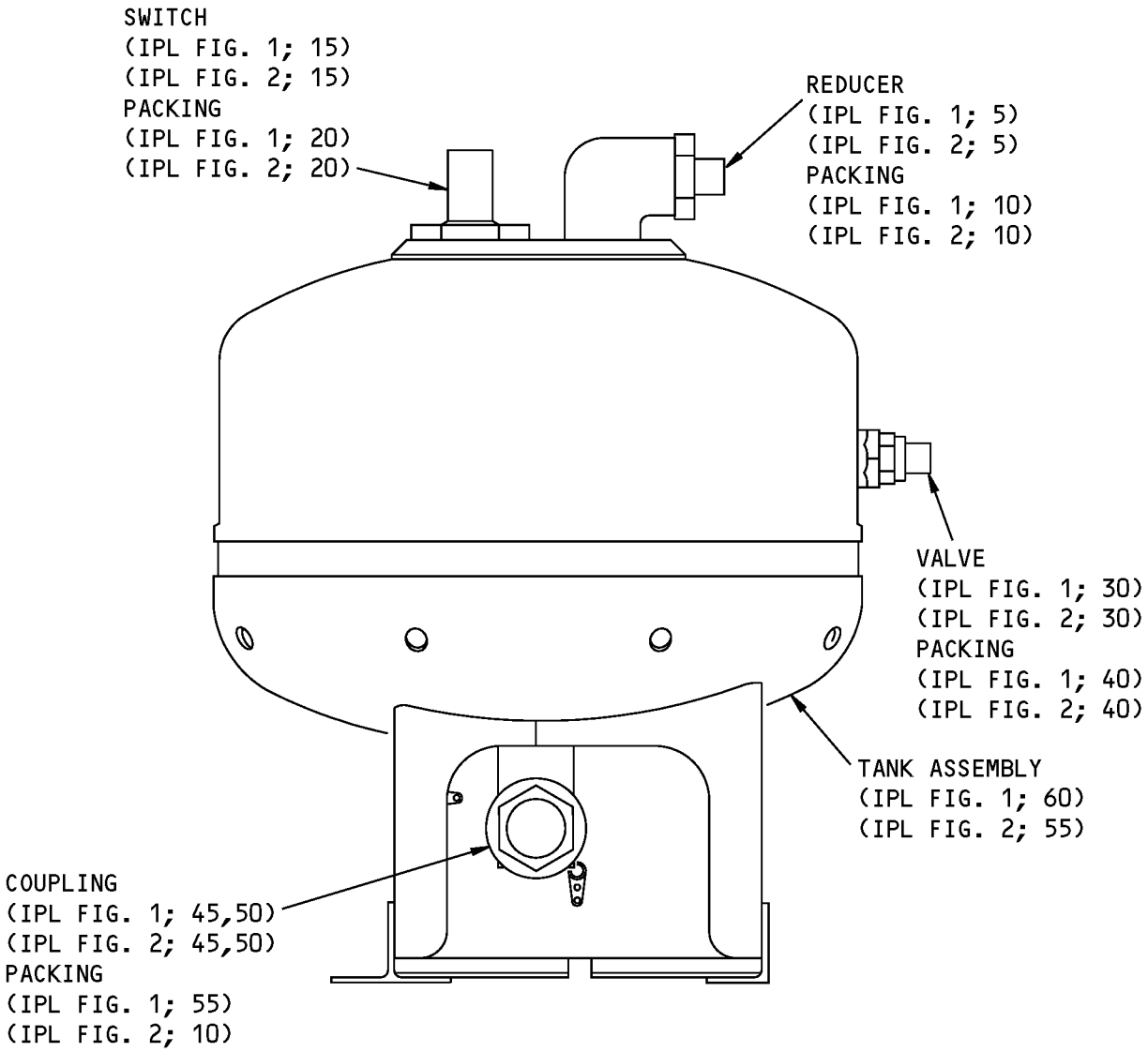
NOTE: For general cleaning procedure, refer to SOPM 20-30-03. For bolt and nut installation, refer to SOPM 20-50-01. For lubricants, refer to SOPM 20-60-03. For miscellaneous materials, refer to SOPM 20-60-04.

(1) Use standard industry procedures and these steps.

(a) Lubricate packings and thread fittings with assembly MCS 352B fluid, D00054 before installation (SOPM 20-50-07).

(b) Install the disconnect coupling (45, 50), union (35), valve (30), reducer (5) and packing (10, 40, 55) (SOPM 20-50-06).

(c) Install the low level warning switch (15) with a new packing (20) (SOPM 20-50-06). Fillet seal around the hex nut of the switch with sealant, A00247.



Hydraulic Reservoir Assembly
Figure 701

BOEING®

COMPONENT MAINTENANCE MANUAL

FITS AND CLEARANCES

(NOT APPLICABLE)

(NOT APPLICABLE)

ILLUSTRATED PARTS LIST

1. Introduction

A. The Illustrated Parts List (IPL) contains an illustration and a list of component parts you can repair or replace. The Illustrated Parts Catalog (IPC) shows how to use the Boeing part number system.

B. This shows how parts are related: The relation of each item to its next higher assembly (NHA) is shown in the NOMENCLATURE column. Use the indenture system that follows:

1 2 3 4 5 6 7

. Assembly

. Attaching parts for assembly

. . Detail parts for assembly

. . Subassembly

. . Attaching parts for subassembly

. . . Detail parts for subassembly

. . . Sub-subassembly

. . . Attaching parts for subassembly

. . . . . Details parts for sub-subassembly

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

C. Each top assembly is given one use code letter (A, B, C, etc.) in the USAGE CODE column. All subsequent component parts in the list can have one or more of the use code letters to show effectivity to top assemblies. A component part without a use code applies to all top assemblies.

D. An alphabetical letter is added after the item number for optional parts, parts changed by a Service Bulletin, configuration differences (except left-handed and right-handed parts), last engineering releases, and parts added between item numbers in a sequence. The alphabetical letter will not be shown on the illustration for equivalent parts of the same part number.

E. Color-coded parts are identified with a single digit alpha following the dash number or with ''SP'' suffix. If the ''SP'' suffix is used, it represents consolidation of all color codes applicable for a given usage which are not separately listed. Orders for color-coded parts should include the registry number of the airplane for which the parts are ordered.

F. If a part number is 15 characters long but will not fit in the part number column, the part number will be displayed with a ''~'' at the end of the line and will be continued on the next line. The ''~'' denotes that the part number continues on the next line.

G. Parts changed by a Service Bulletin are shown by PRE SB XXXX and POST SB XXXX added to the NOMENCLATURE column.

(1) When a new top assembly is added by a Service Bulletin, PRE SB XXXX and POST SB XXXX will be added at the top assembly level only. The configuration differences at the detail part level are shown by use code letters.

(2) When the top assembly part number is not changed by the Service Bulletin, PRE SB XXXX and POST SB XXXX will be added at the detail level.

H. Interchangeable Parts

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

VENDOR CODES

Code	Name
00624	EATON AEROQUIP INC ENGINEERED SYSTEMS DIV 300 S EAST AVE JACKSON, MICHIGAN 49203-1972 FORMERLY AEROQUIP ELBEE PLANT V99879 OR WESTERN PLANT V70128; FORMERLY AEROQUIP AEROSP DIV JACKSON PLANT; FORMERLY V11328 AEROQUIP LINAIR DIV; LAWRENCE PLANT V26622
11815	CHERRY AEROSPACE FASTENERS DIV OF TEXTRON 1224 EAST WARNER AVENUE PO BOX 2157 SANTA ANA, CALIFORNIA 92707-0157 FORMERLY IN LOS ANGELES, CALIF , FORMERLY CHERRY FASTENERS TOWNSEND DIV OF TEXTRON INC V71087
15653	ALCOA GLOBAL FASTENERS INC DIV KAYNAR PRODUCTS 800 S STATE COLLEGE BLVD FULLERTON, CALIFORNIA 92831-3001 FORMERLY VK6405 MICRODOT AEROSP LTD; FORMERLY KAYNAR TECH FORMERLY FAIRCHILD FASTENERS KAYNAR DIV
52828	REPUBLIC FASTENER MFG CORP 1300 RANCHO CONEJO BLVD NEWBURY PARK, CALIFORNIA 91320-1405 FORMERLY IN SYLMAR, CALIFORNIA
58918	AEROSPACE CONTROL PRODUCTS INC 1314 WEST 76TH STREET DAVENPORT,IOWA 52806-1305 FORMERLY V0750B FORMERLY IN ELDRIDGE, IOWA

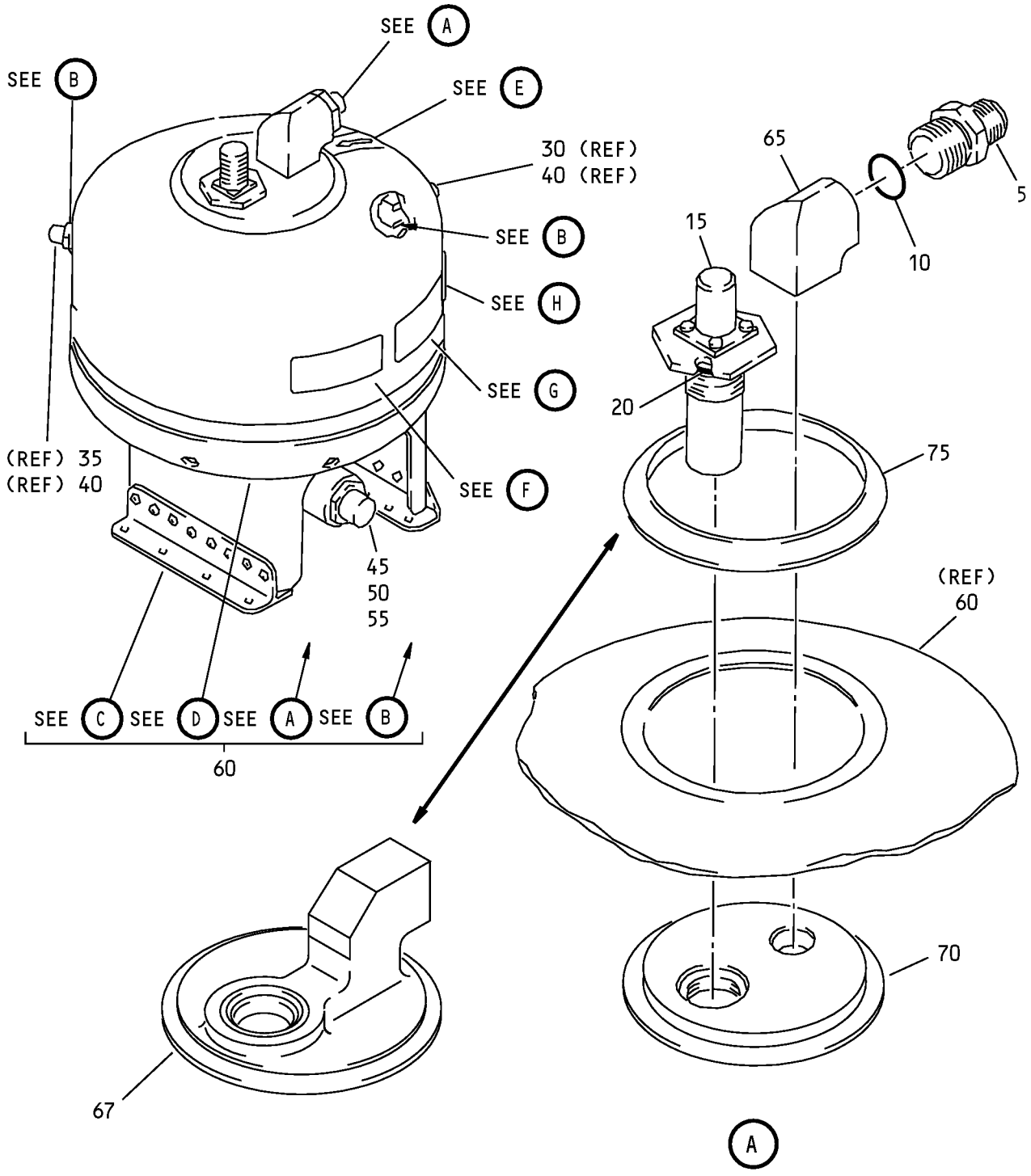
Code	Name
72962	HARVARD INDUSTRIES INC 3 WERNER WAY SUITE 210 LEBANON, NEW JERSEY 08833 FORMERLY ESNA V7A079 FORMERLY ELASTIC STOP NUT IN UNION, NJ
80539	SPS TECHNOLOGIES INC DIV AERPSOACE - SANTA ANA 2701 SOUTH HARBOR BOULEVARD SANTA ANA, CALIFORNIA 92704-5803 FORMERLY NUTT-SHEL DIV OF SPC WESTERN CO V80539 AND STANDARD PRESSED STEEL WESTERN DIV V17279
86831	KAISER ELECTRO PRECISION AEROSPACE AND ELECTRONIC CO 17000 SOUTH RED HILL AVENUE IRVINE, CALIFORNIA 92714-5626 FORMERLY RUCKER PRECISION A DIV OF THE RUCKER CO SANTA ANA FORMERLY ROYLYN DIV OF THE RUCKER CO GLENDALE, CALIFORNIA
92003	PARKER-HANNIFIN CORPORATION 14300 ALTON PKWY IRVINE, CALIFORNIA 92618 FORMERLY PARKER AIRCRAFT V02689;FORMERLY SCHULZ TOOL & MFG V82267; FORMERLY PARKER-BERTEA AEROSPACE GROUP
92215	FAIRCHILD IND INC FAIRCHILD AEROSPACE FASTENER DIV 3010 W LOMITA BLVD TORRANCE, CALIFORNIA 90505-5102 FORMERLY VOI-SHAN IN CULVER CITY, CALIF
99240	CRISSAIR, INCORPORATED 38905 10TH STREET EAST PALMDALE, CALIFORNIA 93550-4000 FORMERLY IN EL SEGUNDO, CALIFORNIA
99251	LITTON LIFE SUPPORT 2734 HICKORY GROVE RD DAVENPORT, IOWA 52804 FORMERLY BENDIX CORP THE PIONEER CENTRAL DIV; BENDIX CORP THE INST & LIFE SUPPORT DIV; CLIFTON PRECISION INSTRU & LIFE SUPPORT DIV

NUMERICAL INDEX

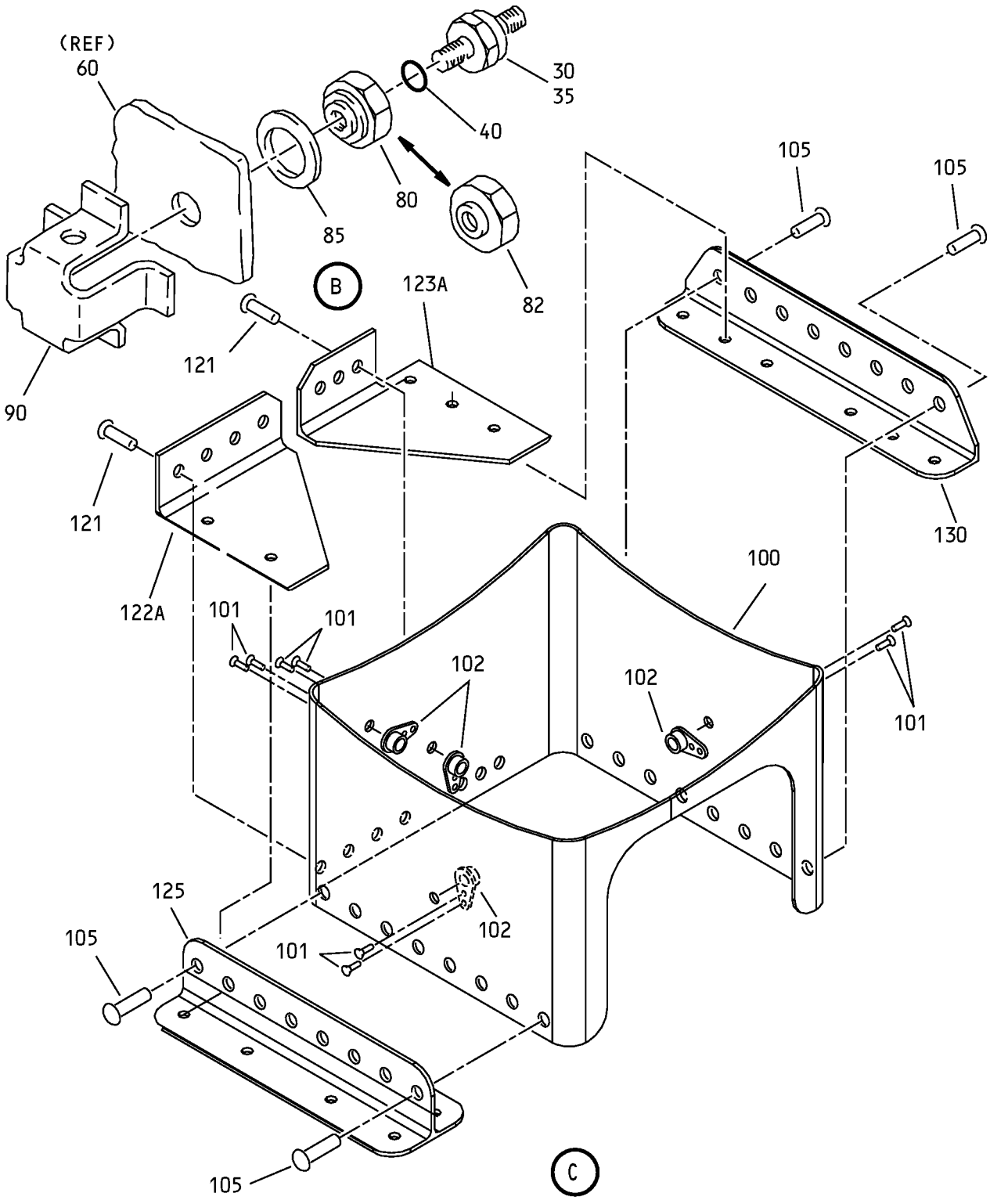
PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
10-61241-1		1	15	1
		2	15	1
1145-0019		1	15	1
		2	15	1
2650185-6		1	30	1
		2	30	1
276A3100-10		1	1B	RF
		2	1A	RF
276A3100-7		1	1A	RF
276A3102-5		1	135	1
		2	70	1
276A3102-6		1	140	1
276A3102-7		1	145	1
276A3102-9		2	75	1
276A3110-2		1	70	1
276A3110-5		1	67	1
276A3110-6		1	67A	1
		2	60	1
276A3110-7		2	80	1
276A3113-1		1	125	1
276A3113-2		1	130	1
276A3113-3		1	122A	1
276A3113-4		1	123A	1
276A3114-1		1	85	2
276A3115-2		1	100	1
276A3116-1		1	95	1
276A3202-1		1	65A	1
276A3301-5		1	60	1
276A3301-6		1	60A	1
276A3301-7		2	55	1
2C6860		1	30	1
		2	30	1
375248-12		1	50	1
		2	50	1

PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
375530-12		1	45	1
		2	45	1
69-35744-1		1	65	1
69-35751-1		1	80	2
69-35751-6		1	82	2
		2	65	2
69-35908-1		1	90	2
		2	85	2
69-73925-1		1	75	1
BAC27DHY1		1	150	1
		2	120	1
BAC27DHY17		1	155	1
		2	125	1
BAC27DHY384		1	160A	1
		2	130	1
BACJ40A20-4		2	95	1
BACM10V21-2JG		1	165	1
		2	135	1
BACN10JN3		2	110	3
BACN10JP3B		1	102	4
BACR15BA3FAD		2	105	2
BACR15BB6D		1	105	16
		1	121	7
BACR15DR3		1	101	8
BACS12GU3K7		2	90	1
BACV10BU2		1	30	1
		2	30	1
BRFM20A3		2	110	3
BRM100A3		1	102	4
MF1000-3BAC		2	110	3
MF53049-3		2	110	3
MK2000-3BAC		1	102	4
MS21209F1-25		2	115	1
MS21902D6		1	35	1
		2	35	1

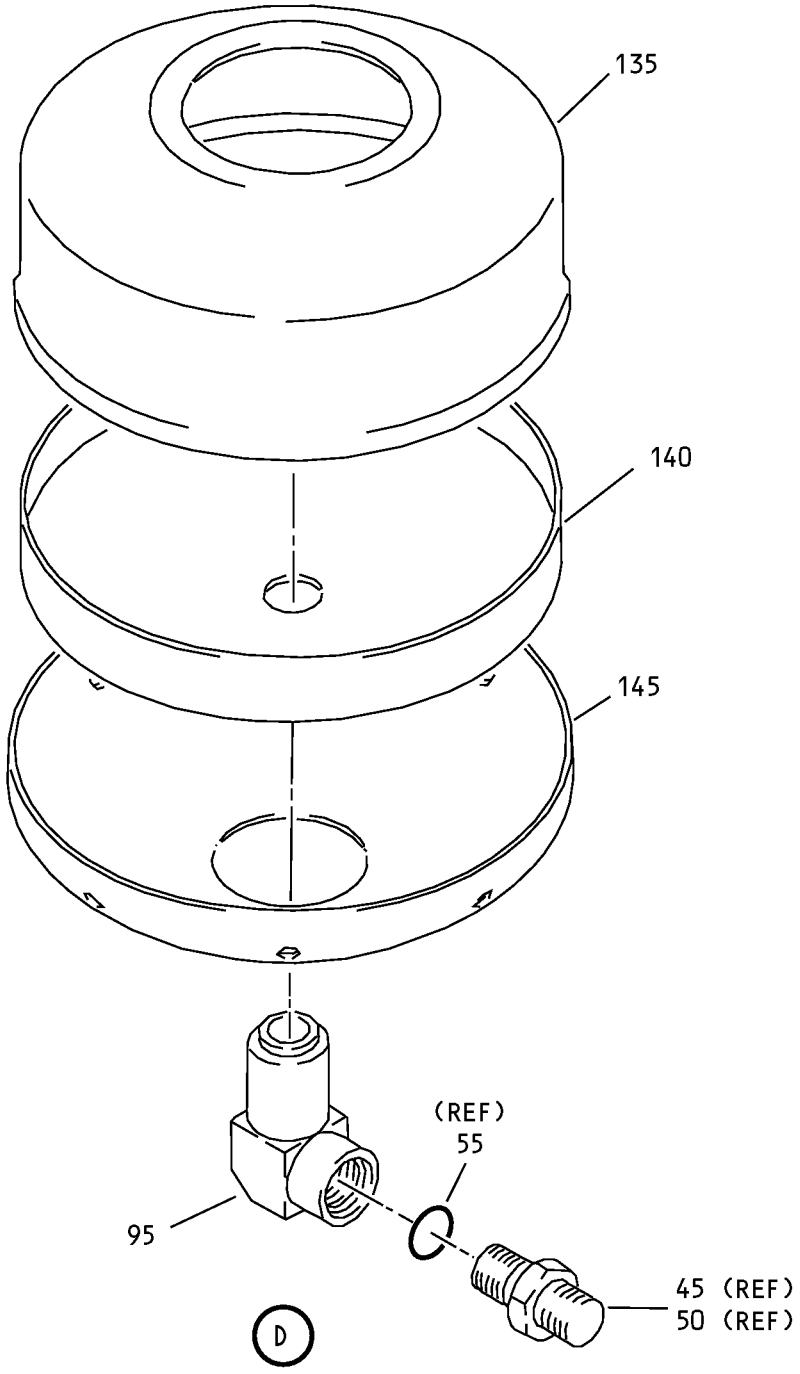
PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
MS21916D12-8		1	5	1
		2	5	1
NAS1149D0316H		2	100	2
NAS1612-12		1	10	1
		1	55	1
NAS1612-12A		1	10A	1
		1	55A	1
		2	10	2
NAS1612-20		1	20	1
NAS1612-20A		1	20A	1
		2	20	1
NAS1612-6		1	40	2
NAS1612-6A		1	40A	2
		2	40	2
NS103198-02		1	102	4
NS103218-02		2	110	3
P37120		1	15	1
		2	15	1
RMA9207-3		1	102	4
RMF9201M3		2	110	3
SLFV1792A		1	15	1
		2	15	1
T8077S1032		1	102	4
T8124S3S		2	110	3
VN201A1-02		1	102	4
VN252A02		2	110	3



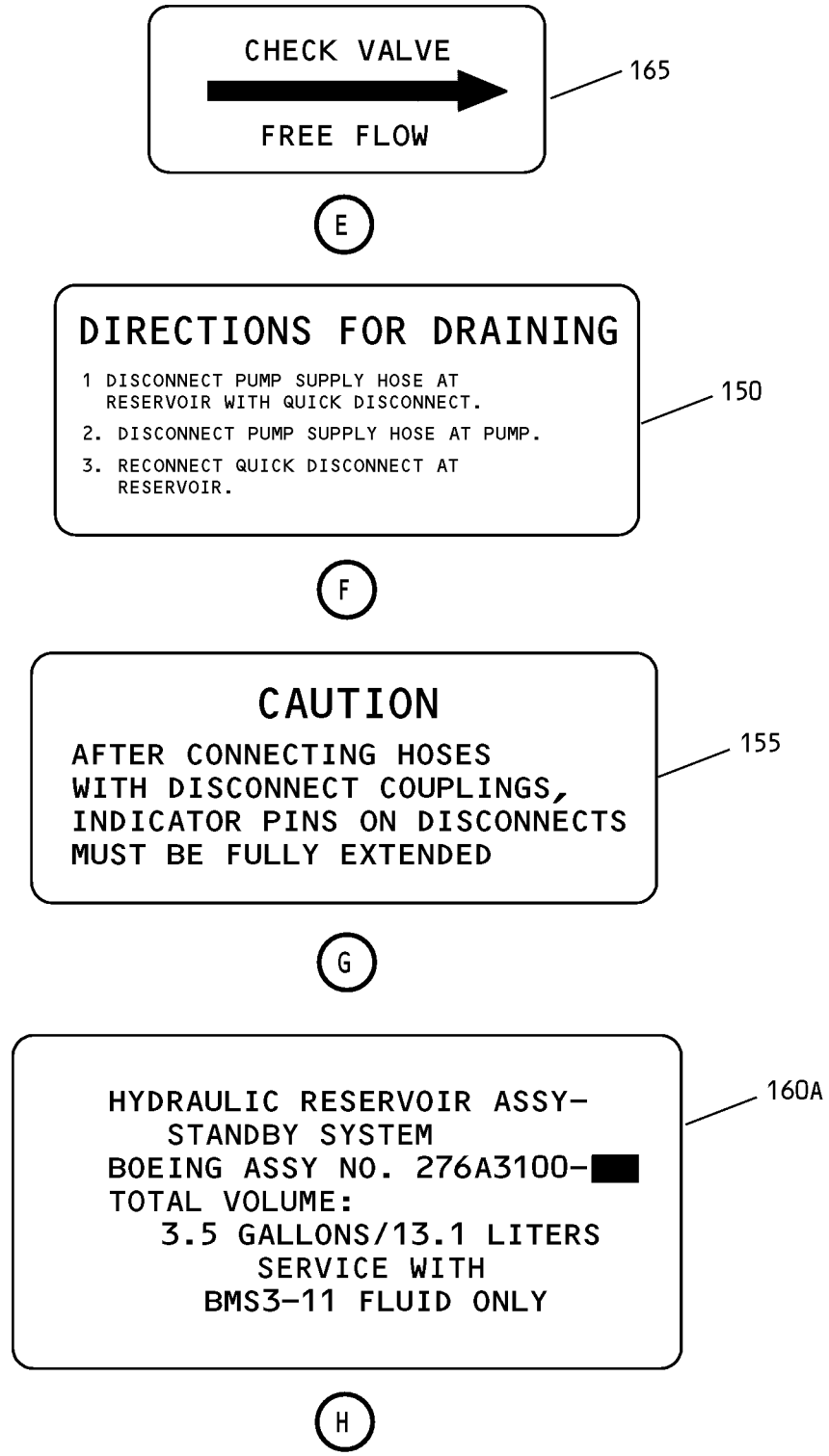
Standby System Hydraulic Reservoir Assembly
IPL Figure 1 (Sheet 1 of 4)



Standby System Hydraulic Reservoir Assembly
IPL Figure 1 (Sheet 2 of 4)



Standby System Hydraulic Reservoir Assembly
IPL Figure 1 (Sheet 3 of 4)



Standby System Hydraulic Reservoir Assembly
IPL Figure 1 (Sheet 4 of 4)

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USAGE CODE	UNITS PER ASSY
1–					
–1A	276A3100-7		RESERVOIR ASSY-HYDR STANDBY SYS	A	RF
–1B	276A3100-10		RESERVOIR ASSY-HYDR STANDBY SYS (FOR DETAILS SEE FIG. 2)	B	RF
–1C	276A3100-9		DELETED		
–1D	276A3100-10		DELETED		
5	MS21916D12-8		. REDUCER	A	1
10	NAS1612-12		. PACKING (OPT ITEM 10A)	A	1
–10A	NAS1612-12A		. PACKING (OPT ITEM 10)	A	1
15	SLFV1792A		. SWITCH-LOW LEVEL WARNING (V58918) (SPEC 10-61241-1) (OPT 1145-0019 (V86831)) (OPT P37120 (V99251))	A	1
20	NAS1612-20		. PACKING (OPT ITEM 20A)	A	1
–20A	NAS1612-20A		. PACKING (OPT ITEM 20)	A	1
25	BACM10V21-2JG		DELETED		
30	2650185-6		. VALVE (V92003) (SPEC BACV10BU2) (OPT 2C6860 (V99240))	A	1
35	MS21902D6		. UNION	A	1
40	NAS1612-6		. PACKING (OPT ITEM 40A)	A	2
–40A	NAS1612-6A		. PACKING (OPT ITEM 40)	A	2
45	375530-12		. COUPLING-DISCONNECT (V00624)	A	1
50	375248-12		. COUPLING-DISCONNECT (V00624)	A	1
55	NAS1612-12		. PACKING (OPT ITEM 55A)	A	1
–55A	NAS1612-12A		. PACKING (OPT ITEM 55)	A	1

–Item not Illustrated

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USAGE CODE	UNITS PER ASSY
1–					
60	276A3301-5		. TANK ASSY (OPT ITEM 60A)	A	1
–60A	276A3301-6		. TANK ASSY (OPT ITEM 60)	A	1
65	69-35744-1		. . BOSS-90 DEGREES (OPT ITEM 65A) (USED ON ITEM 60)	A	1
–65A	276A3202-1		. . BOSS-90 DEGREES (OPT ITEM 65) (USED ON ITEM 60)	A	1
67	276A3110-5		. . PLATE-BOSS (OPT ITEM 67A) (USED ON ITEM 60A)	A	1
–67A	276A3110-6		. . PLATE-BOSS (OPT ITEM 67) (USED ON ITEM 60A)	A	1
70	276A3110-2		. . PLATE-BOSS (USED ON ITEM 60)	A	1
75	69-73925-1		. . RING (USED ON ITEM 60)	A	1
80	69-35751-1		. . BOSS (USED ON ITEM 60)	A	2
82	69-35751-6		. . BOSS-90 DEGREES (USED ON ITEM 60A)	A	2
85	276A3114-1		. . PLATE (USED ON ITEM 60)	A	2
90	69-35908-1		. . BAFFLE	A	2
95	276A3116-1		. . BOSS	A	1
–100	276A3115-2		. . BRACKET	A	1
–100A	276A3115-2		DELETED		
101	BACR15DR3		. . RIVET (SIZE DETERMINED ON INST)	A	8

–Item not Illustrated

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USAGE CODE	UNITS PER ASSY
1–					
102	BRM100A3		. . NUTPLATE (V52828) (SPEC BACN10JP3B) (OPT MK2000-3BAC (V15653)) (OPT NS103198-02 (V80539)) (OPT RMA9207-3 (V72962)) (OPT T8077S1032 (V11815)) (OPT VN201A1-02 (V92215))	A	4
105	BACR15BB6D		. . RIVET (SIZE DETERMINED ON INST)	A	16
110	BACR15BA4A		DELETED		
115	276A3117-1		DELETED		
120	276A3117-2		DELETED		
121	BACR15BB6D		. . RIVET (SIZE DETERMINED ON INST)	A	7
122	273A3113-3		DELETED		
122A	276A3113-3		. . BRACKET	A	1
123	273A3113-4		DELETED		
123A	276A3113-4		. . BRACKET	A	1
125	276A3113-1		. . BRACKET	A	1
130	276A3113-2		. . BRACKET	A	1
135	276A3102-5		. . DOME-TOP	A	1
140	276A3102-6		. . DOME-BOTTOM	A	1
145	276A3102-7		. . DOME-SPRT	A	1
145A	276A3102-7		DELETED		
150	BAC27DHY1		. MARKER-ALUMINUM FOIL	A	1
155	BAC27DHY17		. MARKER-ALUMINUM FOIL	A	1
160	BAC27DHY381		DELETED		
160A	BAC27DHY384		. MARKER-ALUMINUM FOIL	A	1
165	BACM10V21-2JG		. METAL CAL	A	1

–Item not Illustrated

FIGURE DELETED

Deleted
IPL Figure 2

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USAGE CODE	UNITS PER ASSY
2–					
–1	276A3100-8		DELETED		
–1A	276A3100-10		RESERVOIR ASSY-HYDR STANDBY SYS	B	RF
5	MS21916D12-8		. REDUCER	B	1
–5A	MS21921-12D		DELETED		
10	NAS1612-12A		. PACKING	B	2
15	SLFV1792A		. SWITCH-LOW LEVEL WARNING (V58918) (SPEC 10-61241-1) (OPT 1145-0019 (V86831)) (OPT P37120 (V99251))	B	1
20	NAS1612-20A		. PACKING	B	1
25	BACM10V21-2JG		DELETED		
30	2650185-6		. VALVE (V92003) (SPEC BACV10BU2) (OPT 2C6860 (V99240))	B	1
35	MS21902D6		. UNION	B	1
40	NAS1612-6A		. PACKING	B	2
–40A	NAS1611-234A		DELETED		
45	375530-12		. COUPLING-DISC. (V00624)	B	1
50	375248-12		. COUPLING-DISC. (V00624)	B	1
55	276A3301-7		. TANK ASSY	B	1
60	276A3110-6		. . PLATE-BOSS	B	1
–60A	NAS1612-12A		DELETED		
65	69-35751-6		. . BOSS	B	2
70	276A3102-5		. . DOME	B	1
75	276A3102-9		. . DOME	B	1
80	276A3110-7		. . PLATE	B	1
85	69-35908-1		. . BAFFLE	B	2
–85A	NAS1611-213A		DELETED		
90	BACS12GU3K7		. SCREW	B	1
95	BACJ40A20-4		. JUMPER	B	1

–Item not Illustrated

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USAGE CODE	UNITS PER ASSY
2–					
–95A	NAS1612-20A		DELETED		
100	NAS1149D0316H		. WASHER	B	2
–100A	276A3201-3		DELETED		
–100B	276A3201-4		DELETED		
105	BACR15BA3FAD		. RIVET (SIZE DETERMINED ON INST)	B	2
110	BRFM20A3		. NUTPLATE (V52828) (SPEC BACN10JN3) (OPT MF1000-3BAC (V15653)) (OPT NS103218-02 (V80539)) (OPT RMF9201M3 (V72962)) (OPT VN252A02 (V92215)) (OPT MF53049-3 (V15653)) (OPT T8124S3S (V11815))	B	3
115	MS21209F1-25		. INSERT	B	1
120	BAC27DHY1		. MARKER-ALUMINUM FOIL	B	1
125	BAC27DHY17		. MARKER-ALUMINUM FOIL	B	1
130	BAC27DHY384		. MARKER-ALUMINUM FOIL	B	1
135	BACM10V21-2JG		. METAL CAL	B	1
140	69-35744-7		DELETED		
–145	276A3103-4		DELETED		
–145A	276A3103-3		DELETED		
150	65C26861-5		DELETED		
155	276A3118-1		DELETED		
160	69-35752-2		DELETED		
165	276A3202-2		DELETED		
–165A	276A3202-1		DELETED		
170	69-35754-2		DELETED		
175	276A3108-1		DELETED		
180	69-73922-1		DELETED		
185	69-73925-1		DELETED		
190	276A3110-4		DELETED		
195	276A3102-3		DELETED		

–Item not Illustrated

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USAGE CODE	UNITS PER ASSY
2–					
200	276A3104-2		DELETED		
205	276A3102-2		DELETED		
210	276A3105-3		DELETED		
215	276A3106-2		DELETED		
–215A	276A3106-1		DELETED		
–215B	276A3106-1		DELETED		
–215C	276A3106-2		DELETED		
220	69-35975-2		DELETED		
–220A	69-35975-2		DELETED		
222	69-73930-1		DELETED		
225	MS21209F1-15P		DELETED		
230	276A3112-5		DELETED		
235	276A3111-3		DELETED		
240	BAC27DHY385		DELETED		
242	BAC27DHY367		DELETED		
245	BAC27DHY0304		DELETED		
250	BAC27DHY0305		DELETED		
–250A	BAC27DHY387		DELETED		
255	BAC27DHY385		DELETED		
260	BAC27DHY0304		DELETED		
265	BAC27DHY387		DELETED		

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