TO: ALL HOLDERS OF CENTRAL GROUND SERVICE RESERVOIR PRESSURIZATION MODULAR ASSEMBLY COMPONENT MAINTENANCE MANUAL 29-11-26

REVISION NO. 3 DATED NOV 01/99

HIGHLIGHTS

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. 2 dated Oct 10/83 on the Record of Revision Sheet.

CHAPTER/SECTION AND PAGE NO.	DESCRIPTION OF CHANGE
TITLE PAGE 1 101-102 702 801 1002-1010	Incorporated latest engineering changes that added top assembly 271T4904-6 and -8.
TR & SB RECORD 1 102 501 701	Edited with no technical change.

BOEING

COMPONENT
MAINTENANCE MANUAL

CENTRAL GROUND SERVICE
RESERVOIR PRESSURIZATION MODULAR ASSEMBLY

PART NUMBERS 271T4904-2,-4,-6,-8

COMPONENT MAINTENANCE MANUAL
WITH
ILLUSTRATED PARTS LIST

BOEING
COMPONENT
MAINTENANCE MANUAL

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

TEMPORARY REVISION AND SERVICE BULLETIN RECORD

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVE	DATE OF INCORPORATION INTO MANUAL
		PRR B10731	JAN 10/83
		PRR VDC-T0245	JUL 10/83
		PRR B12662	NOV 01/99
		PRR B13115-04	NOV 01/99

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1	JUL 10/83	01
2	BLANK	
TR & SB RECORD		
*1	NOV 01/99	01.1
2	BLANK	
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*1003	NOV 01/99	01.1
*1004	NOV 01/99	01.1
*1005	NOV 01/99	01.1
*1006	NOV 01/99	01.1
*1007	NOV 01/99	01.1
*1008	NOV 01/99	01.1
*1009	NOV 01/99	01.1
*1010	NOV 01/99	01.1

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*[1] Special instructions not required. Use standard industry practices.

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
2. Record of Revisions
3. Temporary Revision & Service Bulletin Record
4. List of Effective Pages
5. Table of Contents
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 is called an alpha-variant. Throughout the manual, IPL basic item number references also apply to alpha-variants unless otherwise indicated.

Verification:

Testing/TS APR 8/83

CENTRAL GROUND SERVICE RESERVOIR PRESSURIZATION MODULAR ASSEMBLY

DESCRIPTION AND OPERATION

1. The central ground service reservoir pressurization modular assembly consists of an aluminum manifold on which are mounted three shutoff toggle valves, three automatic bleed valves, a main check valve, a manual bleed valve, a system relief valve, and various fittings. The modular assembly provides a central point from which the three hydraulic system reservoirs can be selectively pressurized or depressurized during ground servicing.

2. Leading Particulars (approximate)

Length -- 10 inches
Width -- 5 inches
Height -- 4 inches
Weight -- 4 pounds

TESTING AND TROUBLE SHOOTING

1. Test Equipment and Materials

   A. Filtered, dry nitrogen supply, 110 psig min capacity

   B. Pressure gage, ±5 percent min accuracy

   C. Air storage device, approximately 50 cu in. capacity (3 required)

   D. Cap for MS21902D6 union (3 required)

2. Conduct External Leakage and Relief Valve Functional Test (IPL Fig. 1)

   A. Install caps on all three reservoir pressure ports.

      NOTE: Pressure ports are fitted with unions (30).

   B. Move toggle valve (80A) handles to the fully-closed postion.

   C. Remove cap assembly (15) and connect FILL port to the nitrogen supply in series with the pressure gage.

      NOTE: Connection is made through check valve (5).

   D. Pressurize unit to 80 psig for 3 minutes. Using bubble solution, check that there is no external leakage. Check that unit pressure gage (65) agrees with test gage within ±4 psi plus accuracy tolerance on test gage.

   E. Increase pressure slowly until relief valve (105) cracks. Check that cracking pressure is 90-100 psig.

   F. Increase pressure to 110 psig. Check that nitrogen flows freely through relief valve.

   G. Slowly decrease pressure to 85 psig. Check that there is no external leakage.

   H. Remove caps from unions (30).

3. Conduct Manual Bleed Valve Functional Test (IPL Fig. 1)

A. Check that toggle valve (80A) handles are in the fully-closed position.

B. Pressurize the 3 air storage devices to 35 psig and connect one to each of the reservoir pressure ports.

C. Move toggle valve handles to the fully-open position. Hold for 3 minutes and check that there is no external leakage.

D. Press manual bleed valve to empty air storage devices completely. Check that time required to bleed entire (150 cu in.) air storage to zero psig does not exceed 2.0 min.

E. Disconnect storage devices from reservoir ports.

4. Conduct Automatic Bleed Valve Functional Test (IPL Fig. 1)

A. Install caps on all three reservoir pressure ports.

B. Move handle on one of the toggle valves (80A) to the fully-open position. Ensure that the other two valves remain fully-closed.

C. Slowly increase nitrogen pressure at the FILL port until the automatic bleed valve (70) cracks. Check that cracking pressure is 38-42 psig.

D. Slowly decrease pressure and check that automatic bleed valve reseats at 36 psig minimum.

E. Repeat steps B. thru D. for the other two systems.

F. Remove caps from unions (30). Disconnect nitrogen source and test pressure gage. Install cap assembly (15). Install lockwire as shown in ASSEMBLY paragraph 3.D.

5. Corrective Procedures (IPL Fig. 1)

A. Refer to Fig. 101 for probable cause and corrective procedures for any test failure.

TROUBLE	PROBABLE CAUSE	CORRECTION
Unit fails to hold 80 psi for 3 minutes	Defective packings	Replace packings (10,35, 75,85,90,100,110) as required
Depressurization time exceeds 2 minutes	Defective manual bleed valve (95)	Replace manual bleed valve
Relief valve (105) cracking or reseating pressure out of range	Defective relief valve	Replace relief valve
Automatic bleed valve (70) cracking or reseating pressure out of range	Defective bleed valve	Replace appropriate bleed valve

Trouble Shooting Chart
Figure 101

DISASSEMBLY

NOTE: Refer to TESTING/TROUBLE SHOOTING to establish condition or probable cause of any malfunction and to determine extent of disassembly and repair.

1. Parts Replacement (IPL Fig. 1)

   NOTE: The following parts are recommended for replacement. Unless otherwise specified, actual replacement of parts may be based on in-service experience.

   A. Packings (10, 35, 75, 85, 90, 100, 110)

   B. Nuts (55)

2. Disassembly (IPL Fig. 1)

   A. Standard industry practices are sufficient for disassembly of this component.

      NOTE: Do not remove cable assembly (17) or markers (120, 125) from manifold (115) unless necessary for repair or replacement.

CHECK

1. Check all parts for obvious defects in accordance with standard industry practices.

2. Penetrant check manifold (115, IPL Fig. 1) as shown in 20-20-02.

REPAIR - GENERAL

1. Content

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

P/N	NAME	REPAIR
BAC27THY0138	MARKER	1-1
BAC27THY0139	MARKER	1-1
--	MISC PARTS REFINISH	2-1

2. Standard Practices

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

   20-30-02 Stripping of Protective Finishes
   20-30-03 General Cleaning Procedures
   20-41-01 Decoding Table for Boeing Finish Codes
   20-43-01 Chromic Acid Anodizing
   20-50-05 Application of Aluminum Foil and Other Markers

3. Materials

   NOTE: Equivalent substitutes may be used.

   A. Topcoating -- Clear Skydrol-resistant, type 41 (Ref 20-60-02)

MARKER - REPAIR 1-1

BAC27THY0138
BAC27THY0139

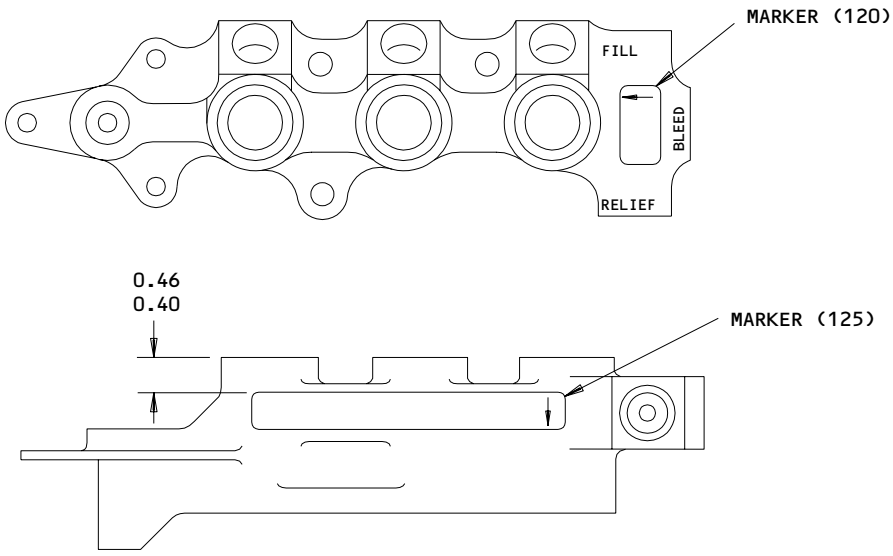
NOTE: Refer to REPAIR-GEN for list of applicable standard practices.

1. Marker Replacement

   A. Remove marker (120, 125, IPL Fig. 1).

   B. Install replacement marker in location shown in Fig. 601.

   C. Apply topcoating, type 41, to marker. Extend coating 0.3 in. beyond edge of marker where possible.



NOTE: DIMENSIONS ARE IN INCHES
REFERENCE ARROWS INDICATE TOP OF MARKER

Marker Replacement
Figure 601

67821

MISCELLANEOUS PARTS REFINISH - REPAIR 2-1

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

IPL FIG. & ITEM	MATERIAL	FINISH
Fig. 1 Manifold (115)	Al alloy	Chromic acid anodize (F-17.04) all over.

Refinish Details
Figure 601

ASSEMBLY

1. Materials

   NOTE: Equivalent substitutes may be used.

   A. Grease -- MIL-G-23827 (Ref 20-60-03)

   B. Hydraulic fluid -- BMS 3-11, type 4 (Ref 20-60-03)

   C. Assembly lube -- Skydrol MC352 (optional to B) (Ref 20-60-03)

   D. Lockwire -- MS20995NC32

2. Lubrication (IPL Fig. 1)

   A. Lightly lubricate packings (10, 35, 75, 85, 90, 100, 110) with hydraulic fluid or Skydrol prior to assembly.

   B. Lightly lubricate spacer (45) OD with grease prior to installation.

3. Assembly

   A. Use standard industry practices and the following procedures to assemble this component.

   B. Loosen gland nuts and orient handles of toggle valves (80A) as shown in Fig. 701. Tighten gland nuts to 60-80 lb-in.

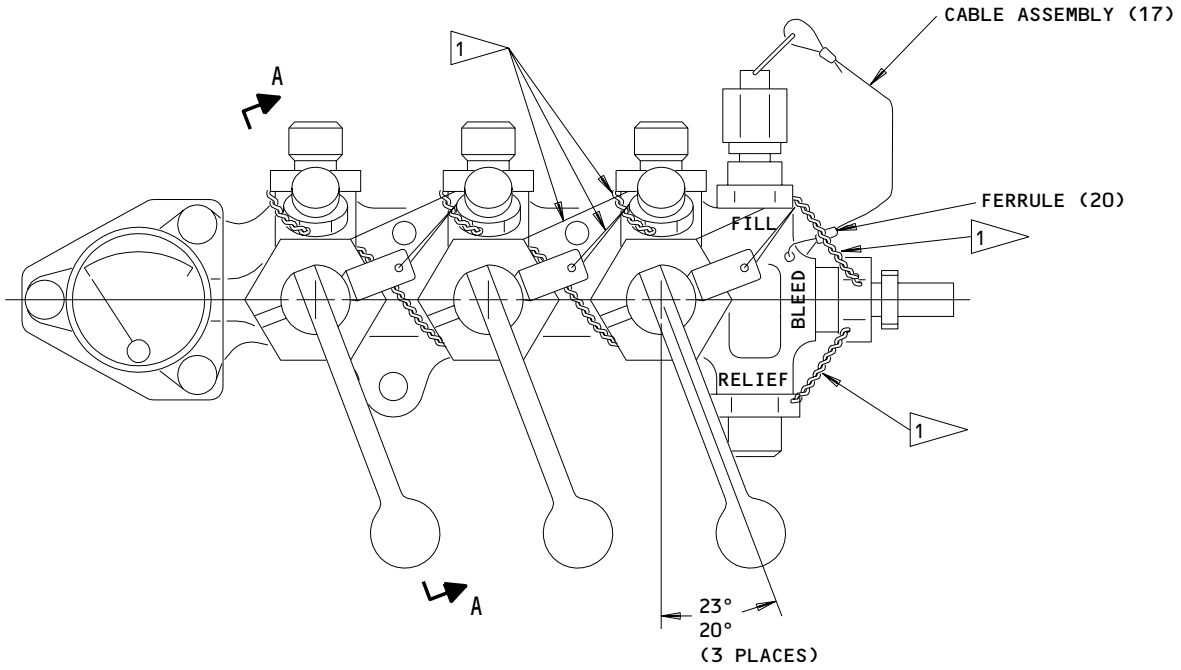
   C. Tighten nuts (55) to 5-8 lb-in. above run-on torque.

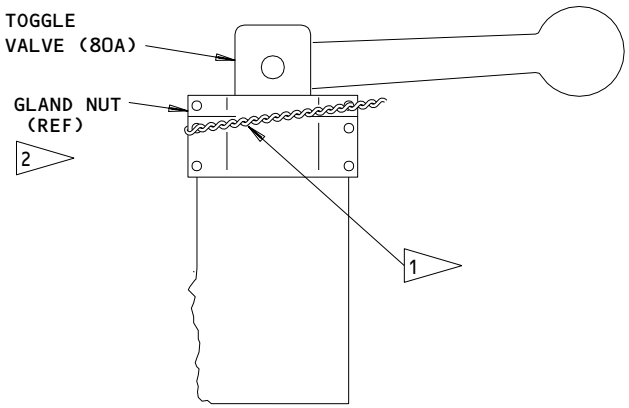
   D. If cable assembly (17) has been removed, install replacement cable by passing free end of cable through hole in manifold and completing assembly with new ferrule (20).

   E. After completion of testing as shown in TESTING/TROUBLE SHOOTING, install lockwire as shown in 20-50-02, double-twist method, in locations shown in Fig. 701.

4. Storage

   A. Use standard industry practices and information in 20-44-02 for storage of this component.





A–A
(TYPICAL)

1 MS20995NC32 LOCKWIRE, DOUBLE-TWIST PROCEDURE

2 TIGHTEN TO 60–80 LB–IN.

Assembly Details
Figure 701

67834

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
55	NUT	5 - 8 [1]	
80A (ref)	GLAND NUT	60 - 80	

[1] ABOVE RUN-ON TORQUE

Torque Table
Figure 801

91069

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.

VENDORS

00779 AMP, INCORPORATED
2800 FULLING MILL
HARRISBURG, PA 17105-3608

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

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

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

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

34830 ROGERSON KRATOS
403 SOUTH RAYMOND AVENUE BIN 45
PASADENA, CALIFORNIA 91105-2609

50808 UNITED SUPPLY CO INC
3676 S BROADWAY PLACE
LOS ANGELES, CALIFORNIA 90007-4432

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

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

VENDORS

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

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

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

88334 WEATHERHEAD GLENDALE,CALIF SEE WEATHERHEAD CLEVELAND V79470

91816 CIRCLE SEAL CONTROLS INC A WATTS INDUSTRIES INC CO
2301 WARDLOW CIRCLE PO BOX 3300
CORONA, CALIFORNIA 91718

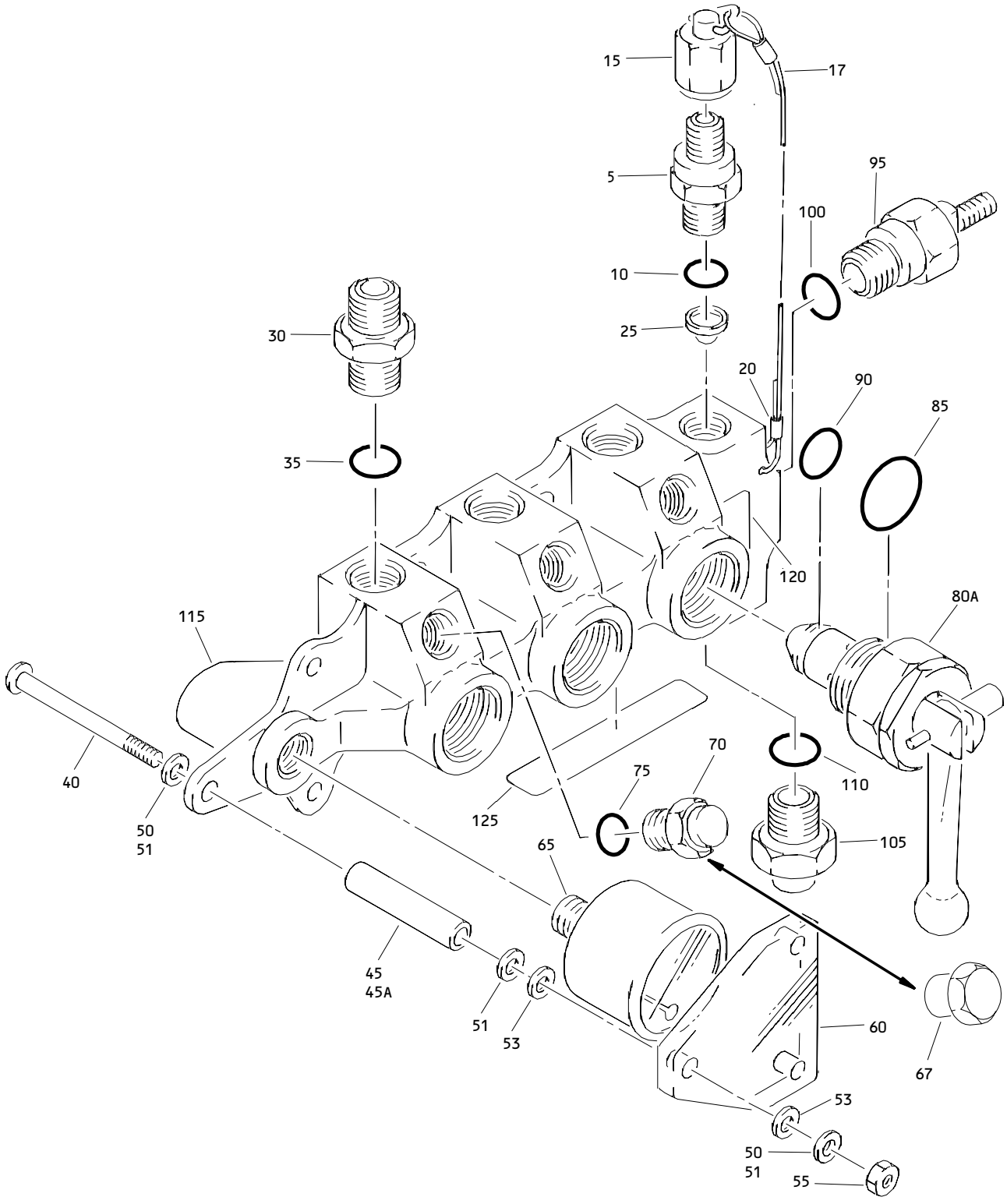
92215 FAIRCHILD IND INC FAIRCHILD AEROSPACE FASTENER DIV
3010 W LOMITA BLVD
TORRANCE, CALIFORNIA 90505-5102

92555 LEE COMPANY
2 PETTIPAUG ROAD PO BOX 424
WESTBROOK, CONNECTICUT 06498-1543

99862 CARR LANE MANUFACTURING COMPANY
4200 CARR LANE CT
ST. LOUIS, MISSOURI 63119-2129

PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
AFP952-04D		1	67	3
AN960PD10L		1	50	6
		1	51	9
AP1008-04D		1	15	1
AP1016-04D		1	67	3
AP10164D		1	67	3
BACC13Y3B60		1	17	1
BACC14AD04D		1	15	1
BACF22U2		1	20	1
BACN10JC3		1	55	3
BACP20AU4D		1	67	3
BAC27THY0138		1	125	1
BAC27THY0139		1	120	1
BRH10A3		1	55	3
CL100-3B60		1	17	1
CL4F		1	20	1
CV26-60		1	72	1
DB0P20AU4D		1	67	3
ER0806-4D		1	67	3
FSBA4370040A		1	25	1
G3721-1		1	65	1
HV22-31		1	95C	1
H10-3BAC		1	55	3
MS21902D6		1	30	3
NAS1515K08L		1	53	6
NAS1611-112		1	90	3
NAS1612-10		1	85	3
NAS1612-4		1	10	1
		1	75	3
		1	100	1
NAS1612-6		1	35	3
		1	110	1
NAS43DD3-100		1	45A	3
NAS603-38		1	40	3
NS202101-02		1	55	3
P128-350		1	80A	3
P128-350-1		1	80H	3
P59-228		1	95	1
RMLH9075-3W		1	55	3
RV05-354		1	105B	1
RV05-355		1	70B	3
S271T496-1		1	80A	3
S271T496-2		1	80H	3
S271U122-1		1	95C	1
T6S1032J		1	55	3

PART NUMBER	AIRLINE PART NO.	FIG.	ITEM	TTL REQ
US2103-04D		1	15	1
VN303A02		1	55	3
2-02700-4D		1	67	3
2662A4EEL		1	5	1
		1	74	1
271T4903-4		1	115	1
271T4904-2		1	1	RF
271T4904-4		1	1B	RF
271T4904-6		1	1C	RF
271T4904-8		1	1D	RF
271T4908-1		1	60	1
31794-4D		1	67	3
325167		1	20	1
4120-587204D		1	67	3
562A4DL40		1	70	3
562A6DL95		1	105	1
90-900-1033		1	65A	1
96-02		1	55	3



Central Ground Service Reservoir Pressurization Modular Assembly
Figure 1

T68463

	FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
	01-					
R	-1	271T4904-2		MODULAR ASSY-CENTRAL GND SVCE RSVR PRESSURIZATION	A	RF
	-1A	271T4904-3		DELETED		
R	-1B	271T4904-4		MODULAR ASSY-CENTRAL GND SVCE RSVR PRESSURIZATION	B	RF
R	-1C	271T4904-6		MODULAR ASSY-CENTRAL GND SVCE RSVR PRESSURIZATION	C	RF
R	-1D	271T4904-8		MODULAR ASSY-CENTRAL GND SVCE RSVR PRESSURIZATION	D	RF
R	5	2662A4EEL		.VALVE-CHK (V91816)		1
R	10	NAS1612-4		.PACKING		1
R	15	AP1008-04D		.CAP ASSY- (V01673) (SPEC BACC14AD04D) (OPT US2103-04D (V50808))		1
R	17	CL100-3B60		.CABLE ASSY- (V99862) (SPEC BACC13Y3B60)		1
R	20	CL4F		.FERRULE- (V99862) (SPEC BACF22U2) (OPT 325167 (V00779))		1
R	25	FSBA4370040A		.SCREEN- (V92555)		1
R	30	MS21902D6		.UNION		3
R	35	NAS1612-6		.PACKING		3
R	40	NAS603-38		.BOLT		3
R	45	NAS43DD3-102		.SPACER	A	3
R	45A	NAS43DD3-100		.SPACER	B-D	3
R	50	AN960PD10L		.WASHER	A	6
R	51	AN960PD10L		.WASHER	B-D	9
R	53	NAS1515K08L		.WASHER	B-D	6

	FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
	01-					
R	55	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))		3
R	60	271T4908-1		.SHIELD		1
R	65	G3721-1		.GAUGE-PRESSURE (V34830) (OPT ITEM 65A)		1
R	-65A	90-900-1033		.GAUGE-PRESSURE (V34830) (OPT ITEM 65A		1
R	67	DBOP20AU4D		.PLUG- (V14798) (SPEC BACP20AU4D) (OPT 31794-4D (V14397)) (OPT 4120-587204D (V50948)) (OPT AFP952-04D (V30974)) (OPT AP1016-04D (V01673)) (OPT ER0806-4D (V88334)) (OPT 2-02700-4D (V11328)) (OPT AP10164D (V01673))	D	3
R	70	562A4DL40		.VALVE-AUTO BLEED (V91816)	A	3
R	-70A	562A4DL40		.VALVE-AUTO BLEED (V91816) (OPT ITEM 70B)	B	3

	FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
	01-					
R	-70B	RV05-355		.VALVE-AUTO BLEED (V91816) (OPT ITEM 70A)	B	3
R	-70C	RV05-355		.VALVE-AUTO BLEED (V91816)	C	3
R	-72	CV26-60		.VALVE-CHECK (V91816) (OPT ITEM 74)	B	1
R	-72A	CV26-60		.VALVE-CHECK (V91816)	C,D	1
R	-74	2662A4EEL		.VALVE-CHECK (V91816) (OPT ITEM 72)	B	1
R	75	NAS1612-4		.PACKING		3
	80	S271T496-1		DELETED		
R	80A	P128-350		.VALVE-TG (V91816) (SPEC S271T496-1)	A	3
	-80G	S271T496-2		DELETED		
R	-80H	P128-350-1		.VALVE-TG (V91816) (SPEC S271T496-2)	B-D	3
R	85	NAS1612-10		.PACKING		3
R	90	NAS1611-112		.PACKING		3
R	95	P59-228		.VALVE-BLEED (V91816)	A	1
R	-95A	P59-228		.VALVE-BLEED (V91816) (OPT ITEM 95C)	B	1

	FIG. & ITEM	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1234567	EFF CODE	QTY PER ASSY
	01-					
	-95B	S271U122-1		DELETED		
R	-95C	HV22-31		.VALVE-BLEED (V91816) (SPEC S271U122-1) (OPT ITEM 95A)	B	1
R	-95D	HV22-31		.VALVE-BLEED (V91816) (SPEC S271U122-1)	C,D	1
R	100	NAS1612-4		.PACKING		1
R	105	562A6DL95		.VALVE-RELIEF (V91816)	A	1
R	-105A	562A6DL95		.VALVE-RELIEF (V91816) (OPT ITEM 105B)	B	1
R	-105B	RV05-354		.VALVE-RELIEF (V91816) (OPT ITEM 105A)	B	1
R	-105C	RV05-354		.VALVE-RELIEF (V91816)	C,D	1
R	110	NAS1612-6		.PACKING		1
R	115	271T4903-4		.MANIFOLD		1
R	120	BAC27THY0139		.MARKER		1
R	125	BAC27THY0138		.MARKER		1

- Item Not Illustrated