COMPONENT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS LIST

NOSE GEAR LOCK VALVE MANIFOLD ASSEMBLY

PART NUMBER 273A1401–1, –2

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COMPONENT MAINTENANCE MANUAL

Revision No. 8
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To: All holders of NOSE GEAR LOCK VALVE MANIFOLD ASSEMBLY 32-33-23.

Attached is the current revision to this COMPONENT MAINTENANCE MANUAL

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TEMPORARY REVISION AND SERVICE BULLETIN RECORD

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVE	DATE OF INCORPORATION INTO MANUAL
		PRR 38005	JUL 01/01

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	
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Temporary Revision		Inserted		Removed	
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Temporary Revision		Inserted		Removed	
Date	Initials	Number	Date	Date	Initials

Temporary Revision		Inserted		Removed	
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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.

NOSE LANDING GEAR LOCK VALVE MANIFOLD ASSEMBLY - DESCRIPTION AND OPERATION

1. Description

A. The nose gear lock valve manifold assembly is an aluminum manifold with restrictors and relief valves.

2. Operation

A. The lock valve manifold is installed on the hydraulic system. The unit controls the flow of hydraulic fluid to and from the lock actuator. It also limits the pressure of the hydraulic fluid.

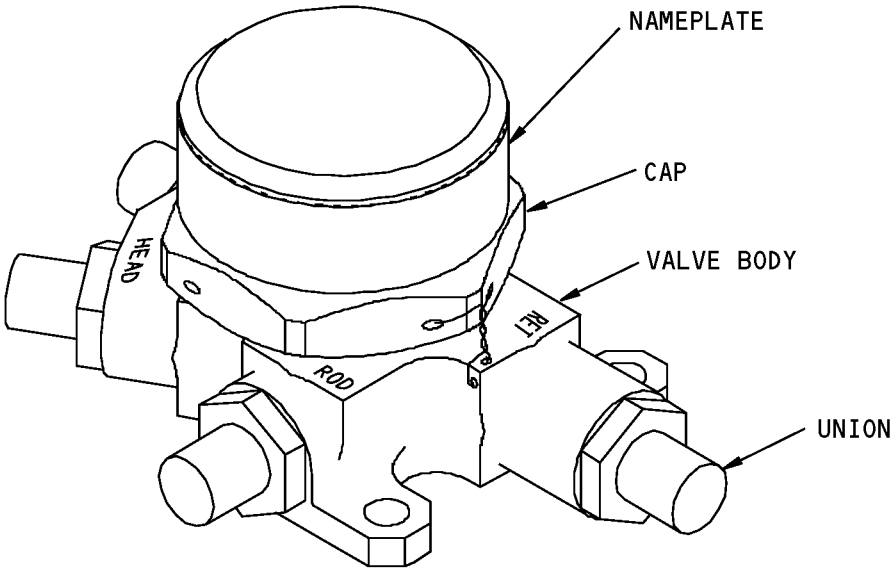
3. Leading Particulars (Approximate)

A. Length – 6 inches

B. Width – 6 inches

C. Height – 6 inches

D. Weight – 6 pounds



Nose Gear Lock Valve Manifold Assembly
Figure 1

TESTING AND FAULT ISOLATION

1. General

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

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. Testing and Fault Isolation

A. 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)

B. References

Reference	Title
SOPM 20-60-03	LUBRICANTS

C. Test Conditions

NOTE: For details of Disassembly, refer to DISASSEMBLY. For details of Assembly, refer to ASSEMBLY

NOTE: For lubricants, refer to SOPM 20-60-03.

(1) Do the test at room temperature 60-100°F (16-38°C), atmospheric pressure 13-17 psia, relative humidity 10-90%.

(2) Use fluid, D00153 at 60-120°F (16-49°C), continuously filtered to 15 microns absolute.

(3) Do not apply compressed air to the ports at any time.

(4) Do the test steps in the sequence given.

D. Procedure (TESTING AND FAULT ISOLATION, Figure 101)

(1) Before each test, make sure the manifold is full of fluid, D00153 and bled of air as much as possible.

(2) Apply 2-10 psi to all ports. Hold for 2 minutes. There must be no external leakage.

(3) Proof Pressure Test – Apply 4400-4600 psi hydraulic pressure to all ports for a minimum of 1 minute. There must be no external leakage, damage, or permanent deformation.

(4) Flow Restriction Test

(a) Apply 3000 psi to the RET port. Flow from the ROD port must be 0.35-0.45 gpm. Total flow from the other ports, added together, must not be more than 10 cc/minute.

(b) Apply 3000 psi to the EXT port. Flow from the HEAD port must be 0.48-0.62 gpm. Total flow from the other ports, added together, must not be more than 10 cc/minute.

(5) Relief Valve Test

(a) Put caps on the RET and EXT ports. Gradually increase the pressure to the ROD port. The flow from the relief valve must change from drops to a smooth flow at 3150 psi minimum.

(b) Continue to gradually increase the pressure at the ROD port. At 3600 psi, the flow must be 0.65 gpm minimum.

(c) Decrease the pressure to 2800 psi. The flow must be no more than 10 cc/minute.

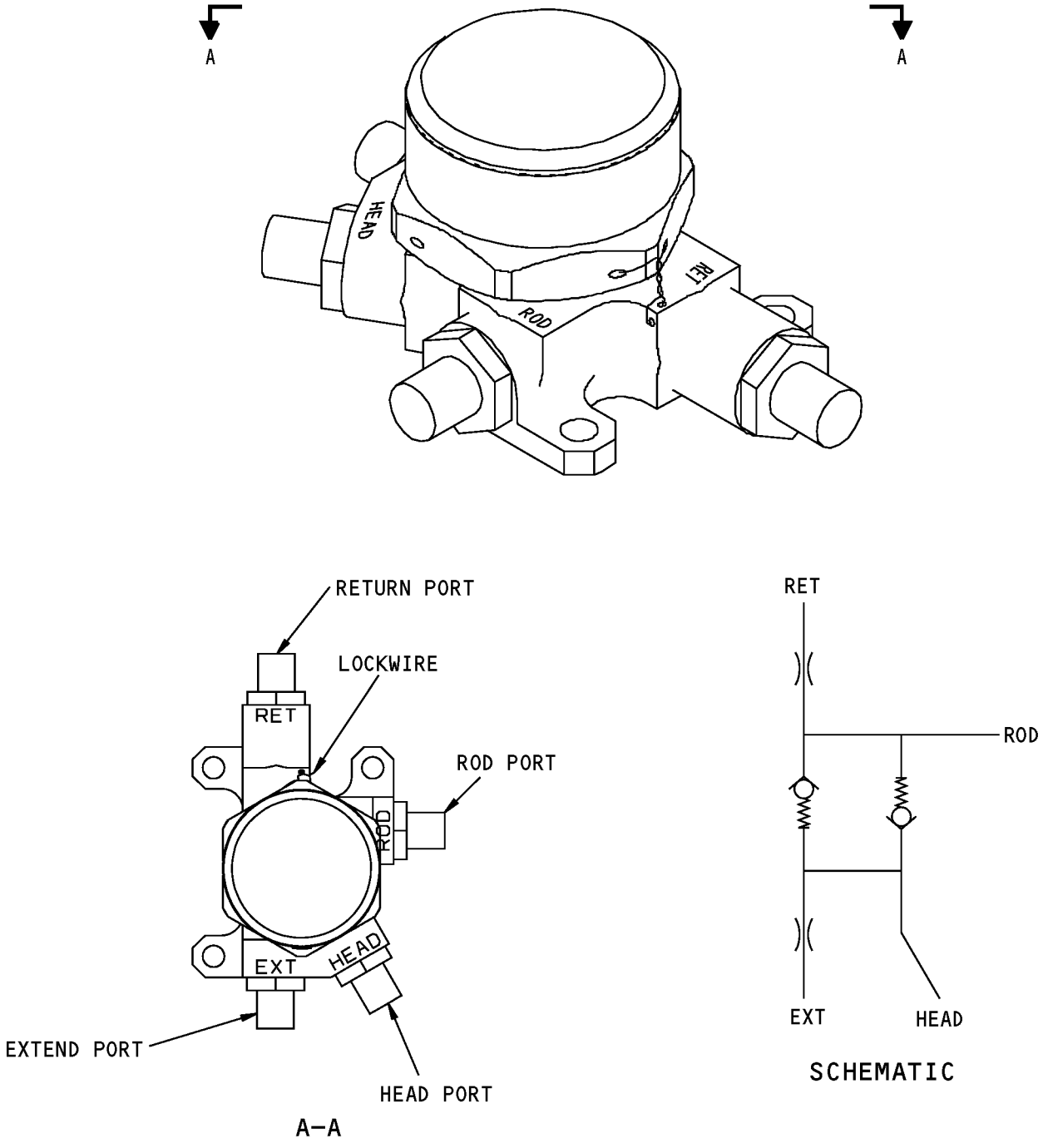
(d) Do steps (a)(b)(c) with pressure applied to the HEAD port and flow measured at the ROD port.

(6) Drain most of the hydraulic fluid from the unit. Let a small amount of fluid, D00153 stay inside the unit to lubricate the internal parts. Put seal caps on the ports.

E. Troubleshooting

(1) If you do not get the correct results in the tests, completely disassemble the unit and look for defective parts or unwanted matter.

(2) Then assemble the unit and try again.



Nose Gear Lock Valve Manifold Details
Figure 101

DISASSEMBLY

1. **General**
   A. This procedure has the data necessary to disassemble the nose gear lock valve manifold.
   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.
2. **Disassembly**
   A. Use standard industry practices.
   B. These parts are recommended for replacement. Replacement of other parts can be by in-service experience.
      (1) All packings, backup rings and seals.
      (2) Lockwire

CLEANING

1. General

A. This procedure has the data necessary to clean the parts of the nose landing gear lock valve manifold.

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. Cleaning

A. References

Reference	Title
SOPM 20-30-03	GENERAL CLEANING PROCEDURES

B. Procedure

(1) Clean all parts by standard industry practices and the instructions in SOPM 20-30-03.

CHECK

1. General

A. The procedure has the data necessary to find defects in the parts of the nose gear lock valve manifold.

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. References

Reference	Title
SOPM 20-20-02	PENETRANT METHODS OF INSPECTION

B. Procedure

(1) Examine all parts for defects by standard industry practices.

(2) Penetrant check (SOPM 20-20-02): manifold (50).

REPAIR

1. General

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

Table 601:

PART NUMBER	NAME	REPAIR
—	REFINISH OF OTHER PARTS	1-1
275A2508	NAMEPLATE REPLACEMENT	2-1
273A1402	MANIFOLD	3-1, 3-2

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 THIS FEATURE 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

EXAMPLES

— | 0.002	STRAIGHT WITHIN 0.002
⊥ | 0.002 | B	PERPENDICULAR TO DATUM B WITHIN 0.002
// | 0.002 | A	PARALLEL TO DATUM 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 A
⌓ | 0.020 | A	SURFACES MUST LIE WITHIN PARALLEL BOUNDARIES 0.020 INCH APART AND EQUALLY DISPOSED ABOUT TRUE PROFILE
◎ | Ø 0.0005 | C	CONCENTRIC TO DATUM C WITHIN 0.0005 DIAMETER
⌯ | 0.010 | A	SYMMETRICAL WITH DATUM A WITHIN 0.010
∠ | 0.005 | A	ANGULAR TOLERANCE 0.005 WITH DATUM 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 DATUM A, AND EXTENDING 0.510 INCH ABOVE DATUM A, MAXIMUM MATERIAL CONDITION
[2.000] OR 2.000 BSC	THEORETICALLY EXACT DIMENSION IS 2.000

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 specified 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. References

Reference	Title
SOPM 20-30-02	STRIPPING OF PROTECTIVE FINISHES
SOPM 20-41-01	DECODING TABLE FOR BOEING FINISH CODES

B. General

(1) Instructions for the repair of the parts listed in REPAIR 1-1, Table 601 are for repair of the initial finish.

C. Procedure

NOTE: For stripping of protective finishes, refer to SOPM 20-30-02. For decoding table for Boeing finish codes, refer to SOPM 20-41-01

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

Table 601: Refinish Details

IPL FIG. & ITEM	MATERIAL	FINISH
IPL Fig. 1		
Cap (15)	15-5 PH, 180-200 ksi	Passivate (F-17.25).
Nameplate (55)	301 CRES	Passivate (F-17.25).

NAMEPLATE - REPAIR 2-1

273A2508–9

1. General

A. This repair has instructions for the replacement of the nameplate.

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. Nameplate Replacement

A. References

Reference	Title
SOPM 20-50-21	HOW TO INSTALL NAMEPLATE STRAPS AND SEALS

B. General

(1) Use a new strap each time.

C. Procedure

(1) Install the replacement nameplate (55) by the instructions in SOPM 20-50-21.

VALVE ASSEMBLY - REPAIR 3-1

273A1402–1, –2

1. General

A. This procedure has the data necessary to replace parts of the valve assembly.

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

C. Refer to IPL Figure 1 for item numbers.

D. General repair details:

(1) Material: Al alloy

2. Valve Assembly Parts Replacement

A. References

Reference	Title
SOPM 20-50-04	INSTALLATION OF PERMANENT PINS AND PLUGS IN DRILL PASSAGES

B. Procedure REPAIR 3-1, Figure 601

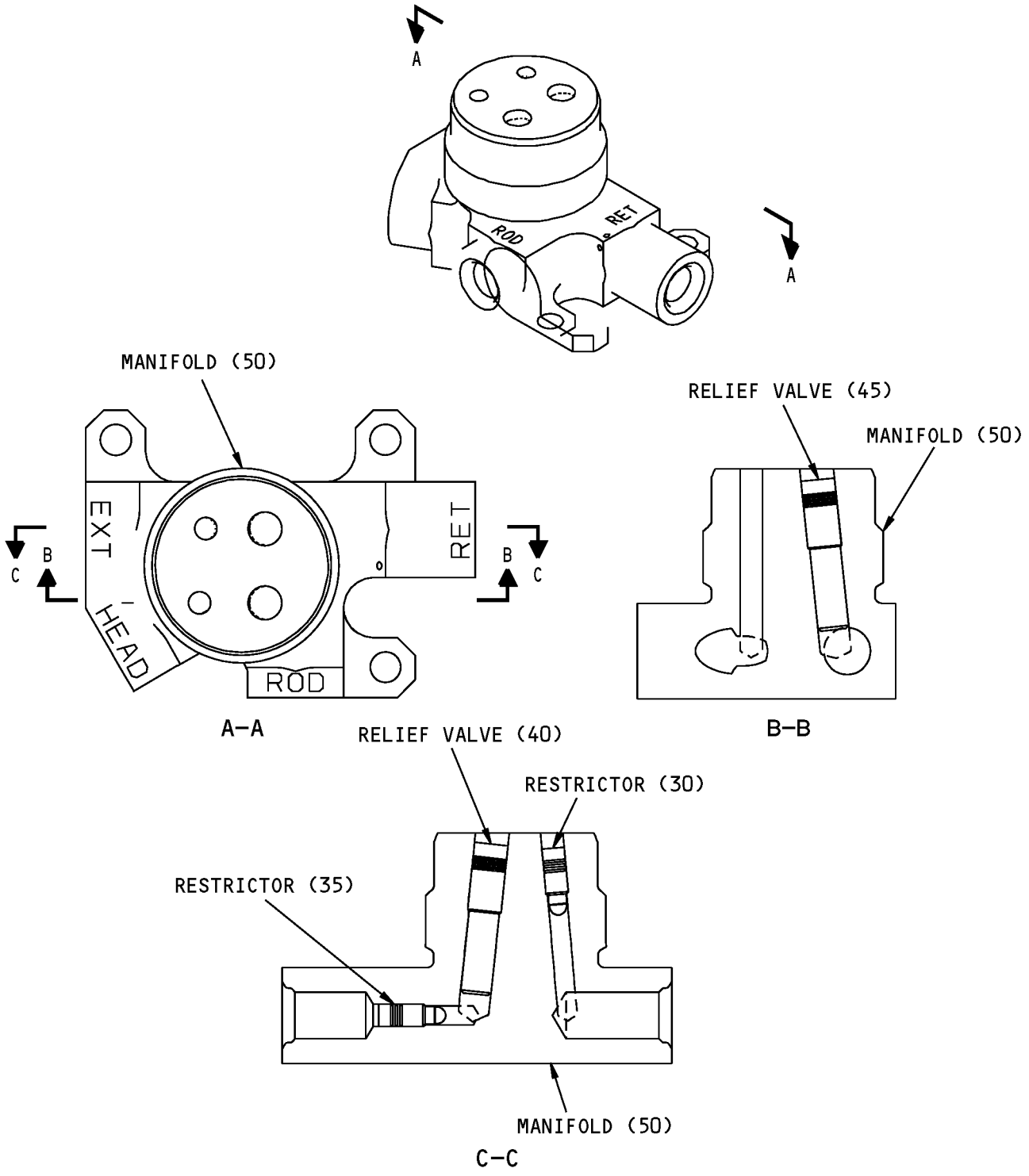
(1) Restrictors and Relief Valves (30 thru 45)

(a) Remove the bad valve or restrictor.

(b) Make a check of the passages to make sure there is no unwanted matter in there.

(c) If you find defects on the valve manifold surfaces, refer to REPAIR 3-2 for repair instructions.

(d) Install a replacement valve or restrictor (SOPM 20-50-04).



273A1402-1,-3 Valve Assembly Parts Replacement
Figure 601

VALVE MANIFOLD - REPAIR 3-2

273A1402–2, –4

1. General

A. This procedure has the data necessary to repair and refinish the valve manifold.

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.

D. General repair details:

(1) Material: Al alloy

2. Valve Manifold Repair and Refinish

A. References

Reference	Title
SOPM 20-30-02	STRIPPING OF PROTECTIVE FINISHES
SOPM 20-41-01	DECODING TABLE FOR BOEING FINISH CODES

B. Procedure

NOTE: For stripping of protective finishes, refer to SOPM 20-30-02. For decoding table for Boeing finish codes, refer to SOPM 20-41-01

(1) Repair (REPAIR 3-2, Figure 601)

(a) Bores for Relief Valves

1) Machine as necessary, within repair limits, to remove defects.

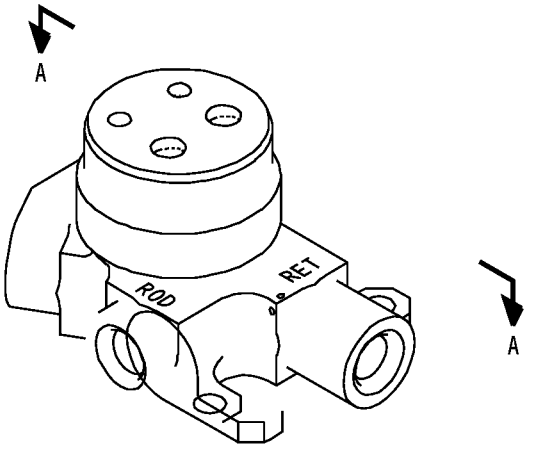
2) Refinish as indicated.

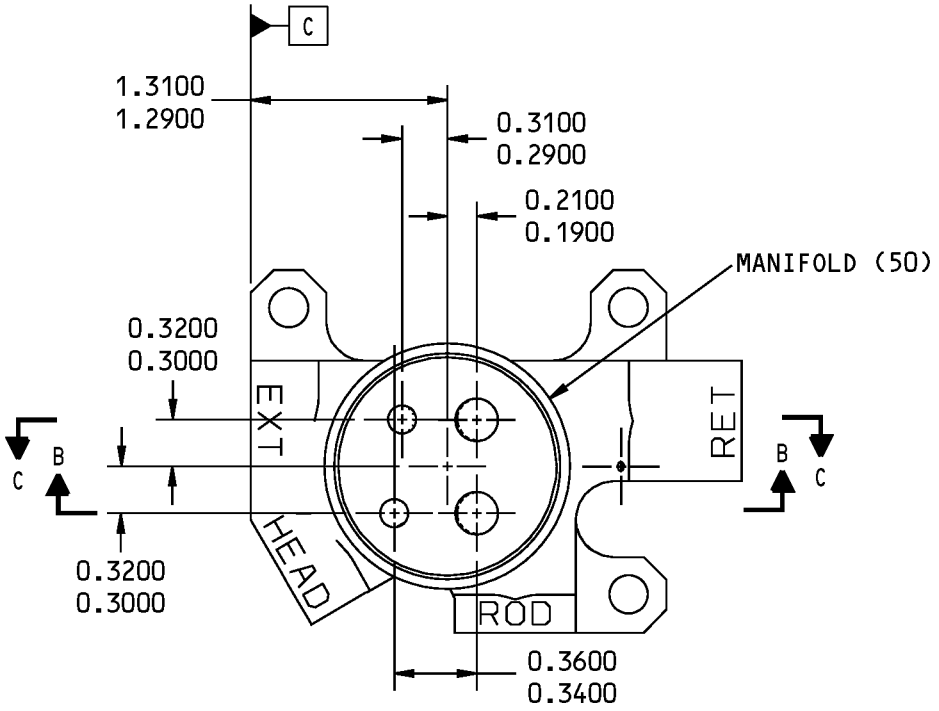
3) Install an oversize relief valve as indicated.

(b) Repair of other surfaces is only replacement of the original finish. Refer to REPAIR 3-2, Paragraph 2.B.(2) for details.

(2) Refinish

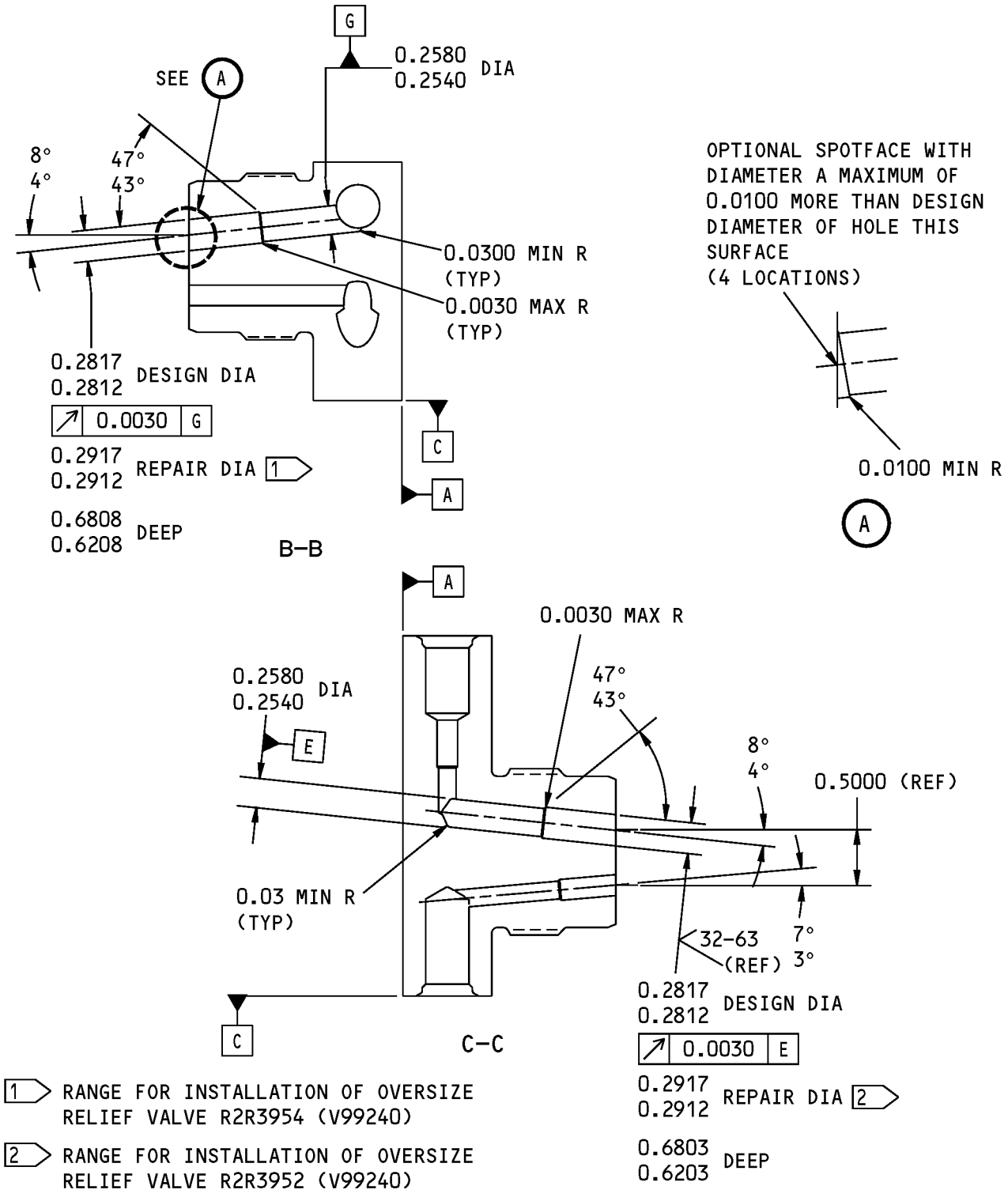
(a) Boric acid-sulfuric acid anodize or chromic acid anodize (F-17.35).





A–A

273A1402-2,-4 Valve Manifold Repair
Figure 601 (Sheet 1 of 2)



273A1402-2,-4 Valve Manifold Repair
Figure 601 (Sheet 2 of 2)

ASSEMBLY

1. General

A. This procedure has the data necessary to assemble the nose landing gear lock valve manifold.

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. Assemble

A. Consumable Materials

NOTE: Equivalent substitutes may be used.

Reference	Description	Specification
A00226	Compound - Tamper-Proof Putty	BMS8-45
D00054	Fluid - Hydraulic Assembly Lubricant - MCS 352B (Formerly Monsanto MCS 352B)	
D00153	Fluid - Hydraulic, Erosion Arresting, Fire Resistant	BMS3-11 Type IV (interchange˜able & intermixable with Type V)
G50347	Lockwire - Nickel-copper, 0.032 inch diameter	NASM20995N˜C32

B. References

Reference	Title
SOPM 20-50-01	BOLT AND NUT INSTALLATION
SOPM 20-50-02	INSTALLATION OF SAFETYING DEVICES
SOPM 20-50-06	INSTALLATION OF O-RINGS AND TEFLON SEALS
SOPM 20-60-03	LUBRICANTS
SOPM 20-60-04	MISCELLANEOUS MATERIALS

C. Procedure

NOTE: For bolt and nut installation, refer to SOPM 20-50-01. For installation of o-rings and teflon seals, refer to SOPM 20-50-06. For lubricants, refer to SOPM 20-60-03. For miscellaneous materials, refer to SOPM 20-60-04.

(1) Use standard industry practices and these steps.

(2) Lubricate the cap threads and the seals with fluid, D00153 or MCS 352B fluid, D00054.

(3) Tighten cap (15) to 900-1000 pound-inches.

(4) Lockwire the cap to the manifold using lockwire, G50347. Use the double-twist method SOPM 20-50-02. Apply tamperproof compound, A00226 putty.

FITS AND CLEARANCES

REF IPL		NAME	TORQUE*	
FIG. NO.	ITEM NO.		POUND-INCHES	POUND-FEET
1	15	Cap	900-1000	

* REFER TO SOPM 20-50-01 FOR TORQUE VALUES OF STANDARD FASTENERS.

Torque Table
Figure 801

(NOT APPLICABLE)

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COMPONENT MAINTENANCE MANUAL

ILLUSTRATED PARTS LIST

1. Introduction

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

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

1 2 3 4 5 6 7

. Assembly

. Attaching parts for assembly

. . Detail parts for assembly

. . Subassembly

. . Attaching parts for subassembly

. . . Detail parts for subassembly

. . . Sub-subassembly

. . . Attaching parts for subassembly

. . . . . Details parts for sub-subassembly

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

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

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

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

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

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

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

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

H. Interchangeable Parts

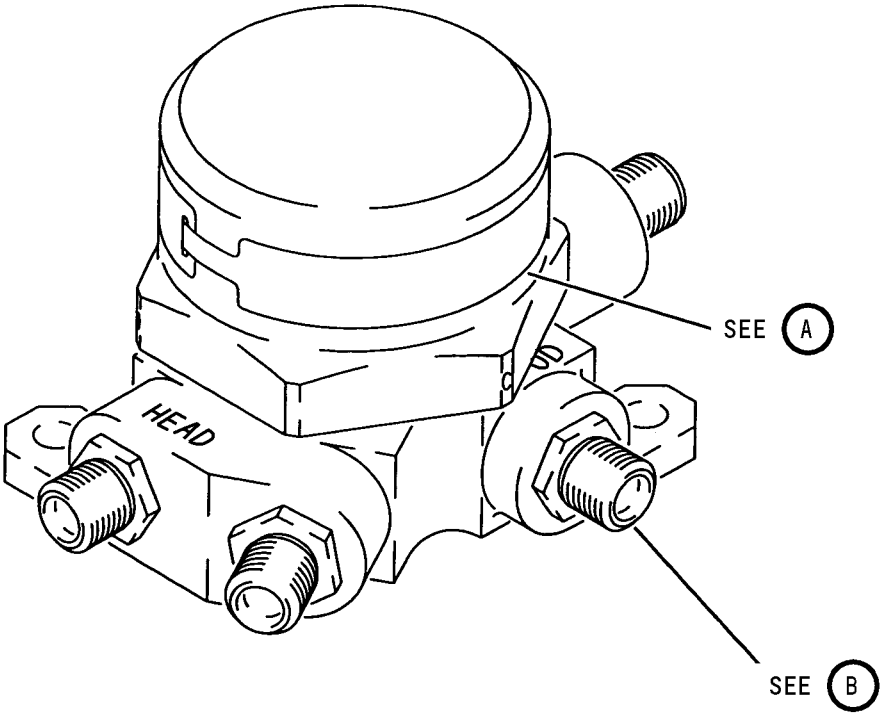
Optional (OPT)	The part is optional to and interchangeable with other parts that have the same item number.
Replaces, Replaced by and not interchangeable with (REPLACES, REPLACED BY AND NOT INTCHG/W)	The part replaces and is not interchangeable with the initial part.
Replaces, Replaced by (REPLACES,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

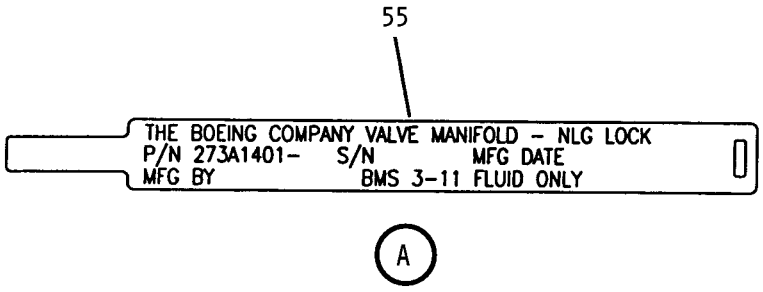
VENDOR CODES

Code	Name
5F573	GREENE TWEED AND CO ILP DBA GREENE TWEED AND CO 2075 DETWILER RD KULPSVILLE, PENNSYLVANIA 19443-0305
92555	LEE COMPANY 2 PETTIPAUG ROAD PO BOX 424 WESTBROOK, CONNECTICUT 06498-1543
99240	CRISSAIR, INCORPORATED 38905 10TH STREET EAST PALMDALE, CALIFORNIA 93550-4000 FORMERLY IN EL SEGUNDO, CALIFORNIA

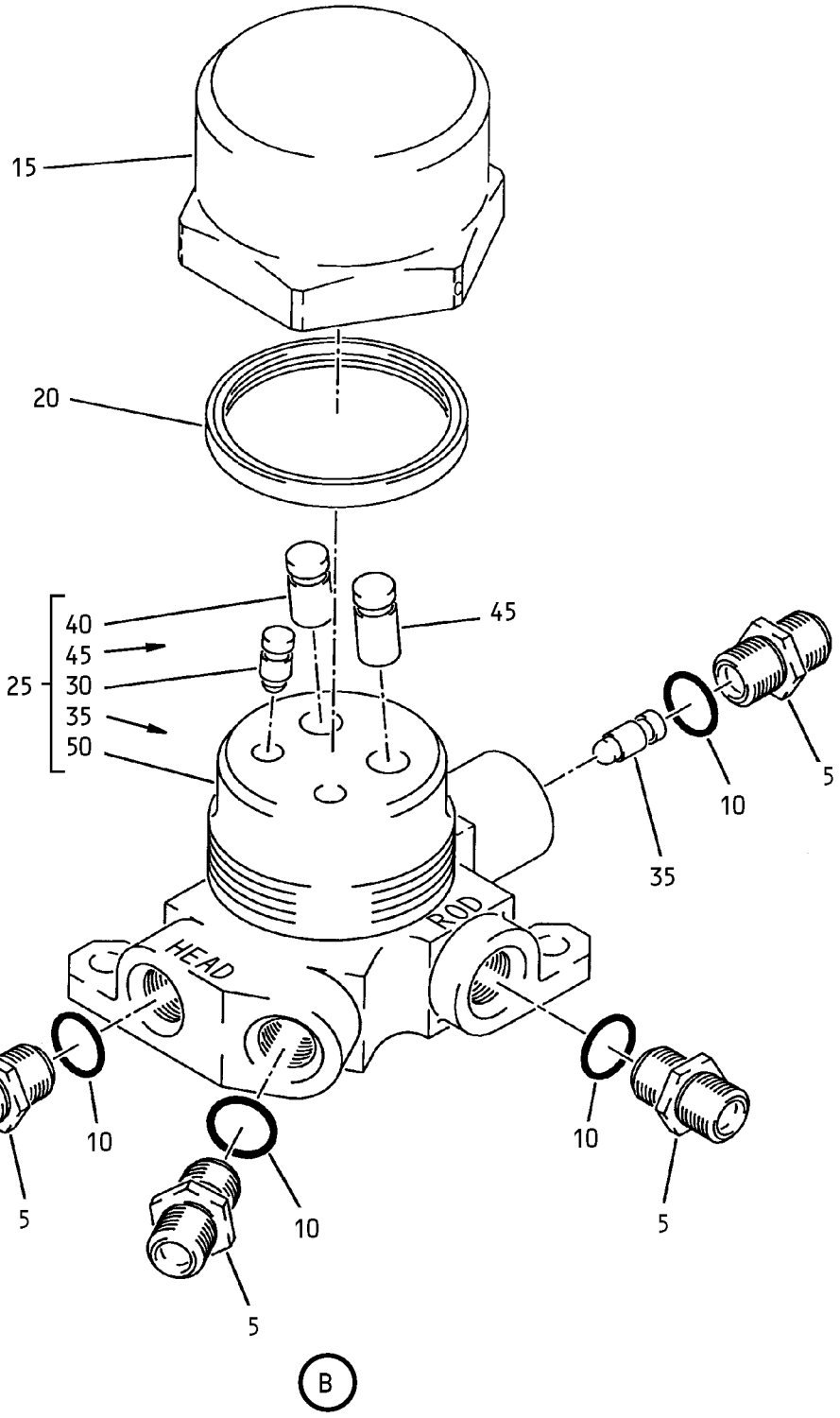
NUMERICAL INDEX

PART NUMBER	AIRLINE PART NUMBER	FIGURE	ITEM	UNITS PER ASSEMBLY
273A1401-1		1	1A	RF
273A1401-2		1	1B	RF
273A1402-1		1	25	1
273A1402-2		1	50	1
		1	50A	1
273A1402-3		1	25A	1
273A1402-4		1	50B	1
273A1403-1		1	15	1
273A2508-9		1	55	1
2R3724		1	40	1
2R3726		1	45	1
2R3820		1	40A	1
		1	40C	1
2R3822		1	45A	1
		1	45C	1
2R3952		1	40B	1
2R3954		1	45B	1
6F3762		1	30	1
6F3764		1	35	1
7128FS952-5708		1	20	1
JETA1875200D		1	30A	1
JETA1875280D		1	35A	1
MS21902-4T		1	5	4
NAS1612-4		1	10	4
NAS1612-4A		1	10A	4
R2R3952		1	40D	1
R2R3954		1	45D	1





Nose Gear Lock Valve Manifold Assembly
IPL Figure 1 (Sheet 1 of 2)



Nose Gear Lock Valve Manifold Assembly
IPL Figure 1 (Sheet 2 of 2)

FIG/ ITEM	PART NUMBER	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USAGE CODE	UNITS PER ASSY
1–					
–1A	273A1401-1		MANIFOLD ASSY-VALVE, NLG LOCK	A	RF
–1B	273A1401-2		MANIFOLD ASSY-VALVE, NLG LOCK	B	RF
5	MS21902-4T		. UNION		4
10	NAS1612-4		. PACKING	A	4
–10A	NAS1612-4A		. PACKING	B	4
15	273A1403-1		. CAP-VALVE MANIFOLD		1
20	7128FS952-5708		. SEAL (V5F573)		1
25	273A1402-1		. VALVE ASSY	A	1
–25A	273A1402-3		. VALVE ASSY	B	1
30	6F3762		. . RESTRICTOR (V99240) (OPT ITEM 30A)		1
–30A	JETA1875200D		. . ORIFICE (V92555) (OPT ITEM 30)		1
35	6F3764		. . RESTRICTOR (V99240) (OPT ITEM 35A)		1
–35A	JETA1875280D		. . ORIFICE (V92555) (OPT ITEM 35)		1
40	2R3724		. . VALVE-RELIEF (V99240) (OPT ITEM 40A) (USED ON ITEM 25)		1
–40A	2R3820		. . VALVE-RELIEF (V99240) (OPT ITEM 40) (USED ON ITEM 25)		1
–40B	2R3952		. . VALVE-RELIEF (V99240) (OPT ITEM 40C) (USED ON ITEM 25A)		1
–40C	2R3820		. . VALVE-RELIEF (V99240) (OPT ITEM 40B) (USED ON ITEM 25A)		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–					
–40D	R2R3952		. . VALVE-RELIEF (V99240) (REPAIR PART)		1
45	2R3726		. . VALVE-RELIEF (V99240) (OPT ITEM 45A) (USED ON ITEM 25)		1
–45A	2R3822		. . VALVE-RELIEF (V99240) (OPT ITEM 45) (USED ON ITEM 25)		1
45B	2R3954		. . VALVE-RELIEF (V99240) (OPT ITEM 45C) (USED ON ITEM 25A)		1
–45C	2R3822		. . VALVE-RELIEF (V99240) (OPT ITEM 45B) (USED ON ITEM 25A)		1
–45D	R2R3954		. . VALVE-RELIEF (V99240) (REPAIR PART)		1
50	273A1402-2		. . MANIFOLD (USED ON ITEM 25)		1
–50A	273A1402-2		. . MANIFOLD (OPT ITEM 50B) (USED ON ITEM 25A)		1
–50B	273A1402-4		. . MANIFOLD (OPT ITEM 50A) (USED ON ITEM 25A)		1
55	273A2508-9		. NAMEPLATE		1

–Item not Illustrated