

 **BOEING**
COMPONENT
MAINTENANCE MANUAL

TO: ALL HOLDERS OF NOSE GEAR ALTERNATE EXTEND LOAD LIMITER ASSEMBLY COMPONENT
MAINTENANCE MANUAL 32-35-91

REVISION NO. 3 DATED JUL 01/90

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 and date on the Record of Revision Sheet.

CHAPTER/SECTION

AND PAGE NO.

DESCRIPTION OF CHANGE

DESCRIPTION & OPERATION Nontechnical editorial change.

1

401

501

301

Clarified Disassembly procedure.

REPAIR-GEN

601-602

REPAIR 1-1

602

Added consumable materials.

REPAIR 2-1

601-602

Deleted Shaft 257T3524-1 and added Shaft 257T3524-2.

701

Clarified Assembly procedures.

1005

Added Bearing Part Numbers, M81935-1-4, -5.

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HIGHLIGHTS

01.101

Page 1

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**NOSE GEAR ALTERNATE EXTEND
LOAD LIMITER ASSEMBLY**

PART NUMBER 257T3502-2,-3,-4,-5

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 |
|-----------------|---------------|------------|----|-----------------|---------------|------------|----|
| | | | | | | | |



TEMPORARY REVISION AND SERVICE BULLETIN RECORD

| BOEING SERVICE BULLETIN | BOEING TEMPORARY REVISION | OTHER DIRECTIVE | DATE OF INCORPORATION INTO MANUAL |
|-------------------------------|---------------------------------|----------------------------|---|
| SB 767-32-12 | | PRR VDCT0215 PRR B10997 | JUL 10/83 OCT 10/83 |

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TR & SB RECORD

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BOEING
 COMPONENT
 MAINTENANCE MANUAL

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|-------------------------|-----------|------|------------------------|-----------|--------|
| 32-35-91 | | | REPAIR-GENERAL | | |
| TITLE PAGE | | | *601 | JUL 01/90 | 01.1 |
| 1 | OCT 10/83 | 01.1 | *602 | JUL 01/90 | 01.1 |
| 2 | BLANK | | *603 | JUL 01/90 | 01.101 |
| REVISION RECORD | | | *604 | BLANK | |
| 1 | JUL 10/83 | 01 | REPAIR 1-1 | | |
| 2 | BLANK | | 601 | OCT 10/83 | 01.1 |
| TR & SB RECORD | | | *602 | JUL 01/90 | 01.1 |
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| *1 | JUL 01/90 | 01.1 | 1003 | BLANK | |
| 2 | BLANK | | 1004 | OCT 10/83 | 01.1 |
| DISASSEMBLY | | | *1005 | JUL 01/90 | 01.1 |
| *301 | JUL 01/90 | 01.1 | 1006 | OCT 10/83 | 01.1 |
| 302 | BLANK | | 1007 | OCT 10/83 | 01.1 |
| CLEANING | | | 1008 | BLANK | |
| *401 | JUL 01/90 | 01.1 | | | |
| 402 | BLANK | | | | |
| CHECK | | | | | |
| *501 | JUL 01/90 | 01.1 | | | |
| 502 | BLANK | | | | |

* = REVISED, ADDED OR DELETED

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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 Revisions & 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
Disassembly
Assembly

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INTRODUCTION

01

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NOSE GEAR ALTERNATE EXTEND LOAD LIMITER ASSEMBLY

DESCRIPTION AND OPERATION

1. The NLG alternate extend load limiter assembly consists of a shaft connected to cartridge, housed in an aluminum alloy housing.
2. The load limiter assembly connects to the torque shaft and control lever. In case of hydraulic failure, the load transmitted by the control lever crushes the cartridge, enabling the quadrant to rotate.
3. Leading Particulars (Approximate)

Length -- 15.0

Width -- 1.65

|

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DESCRIPTION & OPERATION

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DISASSEMBLY

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

1. Disassemble 257T3502-2, -3, -4 (IPL, Fig. 1)
 - A. Remove rivets (3) (257T3502-4 only).
 - B. Loosen nuts (5), remove bearings (10, 15) from housing (55) and shaft (50). Remove nuts (5) from bearings (10, 15).
 - C. Remove pins (20) from housing (55) and cap (45).
 - D. Remove cap (45) and slide shaft (50) and attached parts from housing (20).
 - E. Remove pin (25) from nut (30) and shaft (50). Remove nut (30), washer (35), cartridge (40) and cap (45) from shaft (50).
2. Disassemble 257T3502-5 (IPL, Fig. 2)
 - A. Remove pin (5, IPL Fig. 2) from housing assy (10) and end cap (45). Loosen end cap (45) and slide shaft assy (50) with attached parts from housing assy.
 - B. Remove pin (25) from nut (30) and shaft (50). Remove nut (30) and washer (35), cartridge (40) and end cap (45) from shaft assy (50).
 - C. Remove rod end (55) from shaft (60) and remove rod end (15) from housing (20).

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DISASSEMBLY

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CLEANING

1. Clean all parts except cartridge (40, IPL Fig. 1) using standard industry practices per 20-30-03.
- |2. Clean cartridge (40) according to manufacturer's instructions.

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CLEANING
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CHECK

1. Check all parts for obvious defects in accordance with standard industry practices.
2. Magnetic particle check per 20-20-01 -- washer (35, IPL Fig. 1).
3. Penetrant check per 20-20-03 -- cap (45), shaft (50) and housing (55 on IPL Fig. 1 and 20 on IPL Fig. 2).

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CHECK

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REPAIR – GENERAL1. Contents

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

| <u>P/N</u> | <u>NAME</u> | <u>REPAIR</u> |
|------------|--------------------|---------------|
| 257T3522 | HOUSING | 1-1 |
| 257T3524 | SHAFT | 2-1 |
| -- | MISC PART REFINISH | 3-1 |

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
 20-40-02 Temporary Protective Coating
 20-41-01 Decoding Table For Boeing Finish Codes
 20-42-05 Bright Cadmium Plating
 20-43-01 Chromic Acid Anodize
 20-50-03 Bearing Installation and Retention

3. Materials

NOTE: Equivalent substitutes may be used.

A. Primer -- BMS 10-11 Type 1 (Ref 20-60-02)

B. Enamel -- BMS 10-11, Type II Color 702 White Gloss (Ref 20-60-02)

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- | C. Grease -- BMS 3-24 (Ref 20-60-03)
- | D. 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

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

HOUSING - REPAIR 1-1

257T3522-1, -3

NOTE: Refer to REPAIR-GEN for list of applicable standard practices. For repair of surfaces which may only require restoration of original finish, refer to Refinish instructions, Fig. 601.

1. Rod End Replacement (257T3522-3)

- A. Remove rod end (15 IPL, Fig. 2) from housing assy (10).
- B. Apply wet BMS 5-95 to threaded area and install new rod end (15) and roller swage per 20-50-03.
- C. Apply fillet seal with BMS 5-95 sealant around rod end.

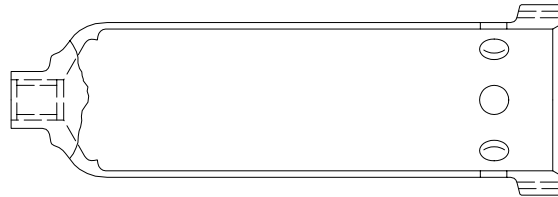
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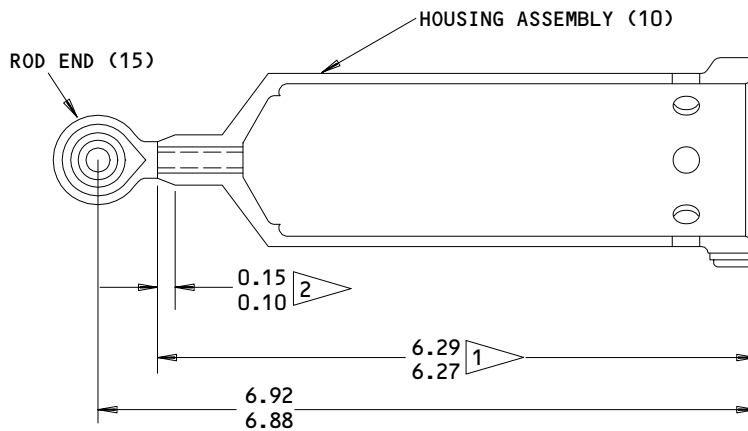
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257T3522-1



257T3522-3

REFINISH

257T3522-1 -- CHROMIC ACID ANODIZE AND APPLY ONE COAT BMS 10-11, TYPE I, PRIMER (F-18.13) AND BMS 10-11, TYPE II ENAMEL (F-21.03) EXCEPT CHROMIC ACID ANODIZE (F-17.04) ON INTERNAL SURFACES AND ON THREADED AREAS ONLY

257T3522-3 -- CHROMIC ACID ANODIZE (F-17.04) AND AFTER SWAGING APPLY ONE COAT BMS 10-11, TYPE I, PRIMER (F-20.02) AND BMS 10-11, TYPE II ENAMEL (F-21.03) EXCEPT OMIT ON INTERNAL SURFACES AND ON THREADED AREAS

MATERIAL: AL ALLOY

ALL DIMENSIONS ARE IN INCHES

- 1 DIMENSION BEFORE SWAGING
- 2 SWAGE AFTER INSTALLATION OF ROD END

**Housing Repair
 Figure 601**

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SHAFT - REPAIR 2-1

257T3524-2, -4

NOTE: Refer to REPAIR-GEN for list of applicable standard practices. For repair of surfaces which may only require restoration of original finish, refer to Refinish instructions, Fig. 601.

1. Rod End Replacement (257T3524-4)

- A. Remove rod end (55 IPL, Fig. 2) from shaft assy (50).
- B. Apply wet BMS 5-95 to threaded area and install new rod end (55) and roller swage per 20-50-03.
- C. Apply fillet seal with BMS 5-95 sealant around rod end.

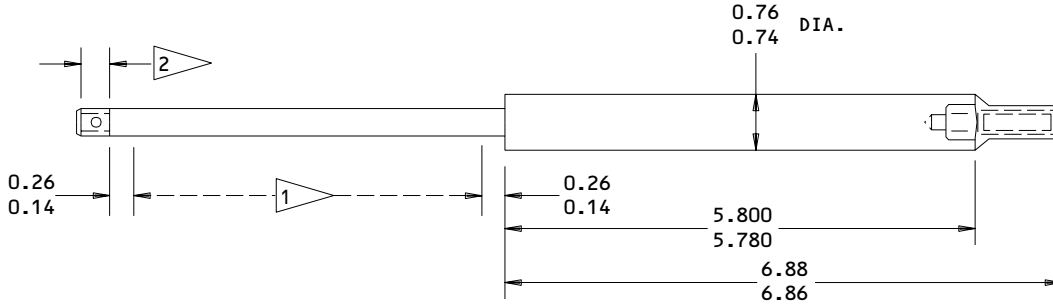
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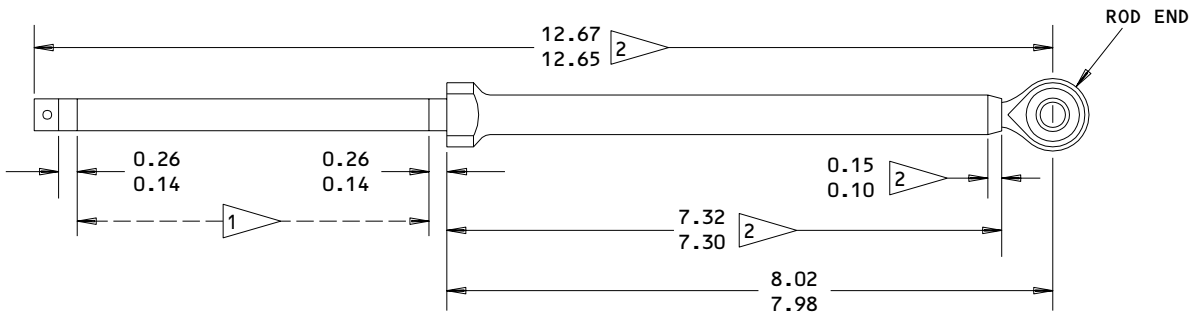
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257T3524-2



257T3524-4

REFINISH

257T3524-2 -- CHROMIC ACID ANODIZE AND APPLY ONE COAT BMS 10-11, TYPE I, PRIMER (F-18.13) AND BMS 10-11, TYPE II ENAMEL (F-21.03) EXCEPT ON THREADED AREA AND AS NOTED IN 1

1 BMS 10-11, TYPE II ENAMEL (SRF-14.905-101)

257T3524-4 -- CHROMIC ACID ANODIZE (F-17.04) AND AFTER SWAGING APPLY ONE COAT BMS 10-11, TYPE I, PRIMER (F-20.02) AND BMS 10-11, TYPE II ENAMEL (F-21.03) EXCEPT ON THREADED AREA, ROD END AND AS NOTED 1

1 BMS 10-11, TYPE II ENAMEL (SRF-14.905-101)

2 DIMENSION BEFORE SWAGING

3 SWAGE AFTER INSTALLATION OF ROD END

Shaft Repair
 Figure 601

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REPAIR 2-1

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MISCELLANEOUS PARTS REFINISH – REPAIR 3-1

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

| IPL FIG. & ITEM | MATERIAL | FINISH |
|-----------------|---------------------------|--|
| <u>Fig. 1</u> | | |
| Washer (35) | 4130 Steel 125-145 KSI | Cadmium plate and apply one coat BMS 10-11, type I primer (F-16.01). |
| Cap (45) | Al alloy | Chromic acid anodized and apply one coat BMS 10-11, type I primer (F-18.13). Apply one coat BMS 10-11, type II color BAC 702 white gloss enamel (F-21.03), except omit primer and enamel on threaded area. |

Refinish Details
Figure 601

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REPAIR 3-1

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ASSEMBLY1. Materials

NOTE: Equivalent substitutes may be used.

A. Grease -- BMS 3-24 (Ref 20-60-03)

| 2. Assembly

| A. Install cap (45), cartridge (40), washer (35) and nut (30) on shaft (50). Tighten nut (30) to obtain 0.00-0.03 clearance between cap (45) and shaft (50) shoulder. Do not over tighten. Install pin (25) on nut (30) and shaft (50).

| B. Slide shaft (50) and attached part into housing (55, IPL Fig. 1 or 20, IPL Fig. 2). Tighten cap (45) until holes align in housing and cap. Install pin (20, IPL Fig. 1 or 5, IPL Fig. 2) in housing and cap.

| C. Assemble 257T3502-2, -3, -4 assy IPL Fig. 1.

| (1) Apply grease to threads of bearings (10, 15, IPL Fig. 1). Install nuts (5) on bearings (10, 15). Install bearing (10) in housing (55) and bearing (15) in shaft (50).

| (2) Adjust bearing (10) to obtain 7.00-7.06 inches between face of cap (45) to centerline of rod end (10). Adjust bearing (15) to obtain 15.02-15.06 inches between centerline of rod ends (10, 15). Align holes in housing end (55) and shaft end (50) with holes in rod end (10, 15), install rivets (3). Tighten nuts (5).

| D. Assemble 257T3502-5 assy IPL Fig. 2.

| (1) Ensure that length between centerline of rod ends (15, 55) is 15.02-15.09 inches.

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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

04621 HEXCEL CORPORATION
 11711 DUBLIN BLVD
 DUBLIN, CALIFORNIA 94566

15653 KAYNAR MFG COMPANY INC KAYLOCK DIV
 PO BOX 3001 800 SOUTH STATE COLLEGE BLVD
 FULLERTON, CALIFORNIA 92634

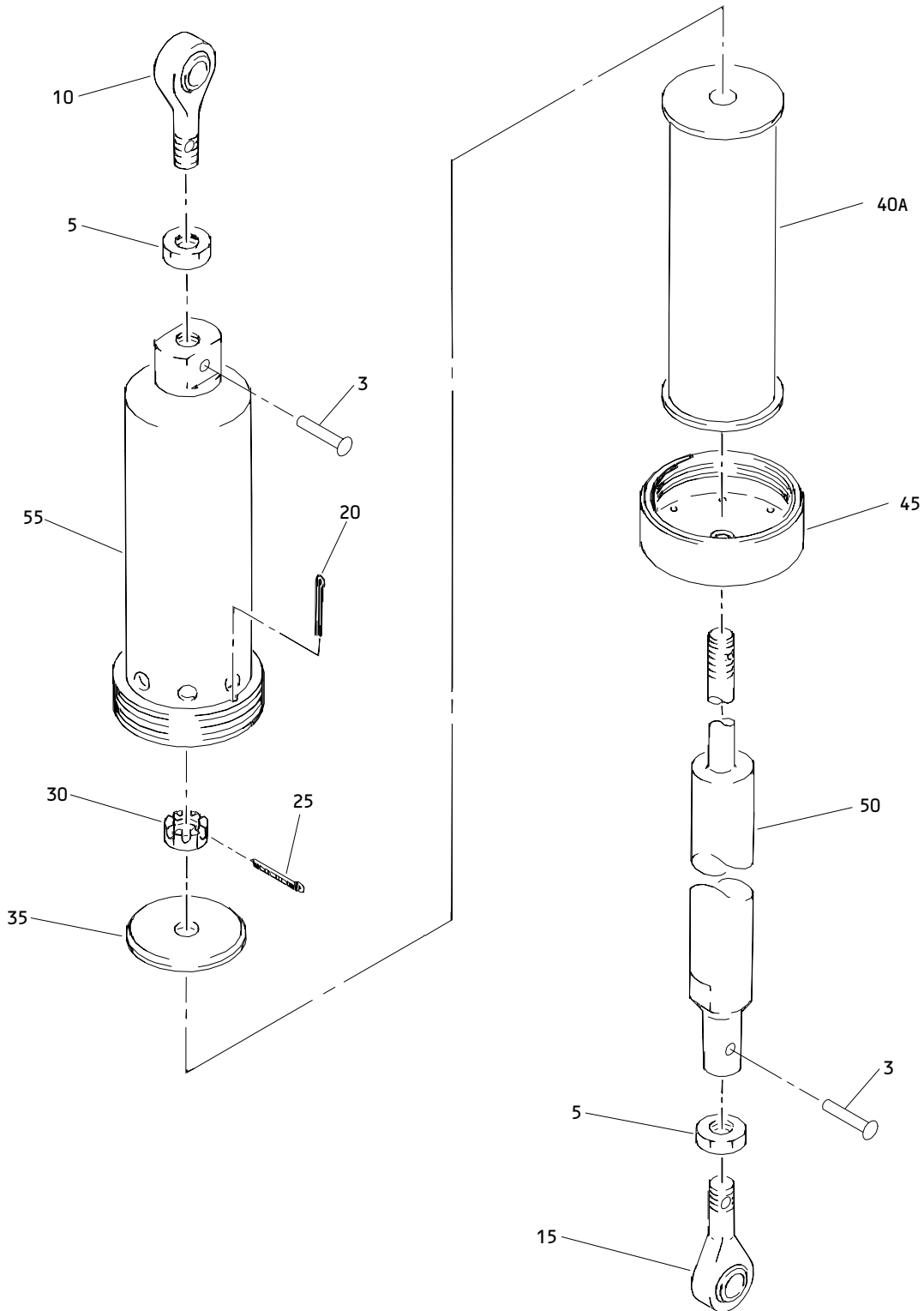
56878 SPS TECHNOLOGIES INC
 HIGHLAND AVENUE
 JENKINTOWN, PENNSYLVANIA 19046
 USE APPLICABLE FACILITY CODE

72962 AMERACE CORP ESNA DIV
 2330 VAUXHALL ROAD
 UNION, NEW JERSEY 07083
 ESNA DIV OF AMERACE CORP SEE AMERACE CORP ESNA DIV
 ELASTIC STOP NUT DIV AMERACE CORP SEE ESNA DIV AMERACE CORP

92595 AUTOMATIC SCREW MACHINE PRODUCTS CO
 PO BOX 1608 709 2ND AVENUE SE
 DECATUR, ALABAMA 35602

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Nose Gear Alternate Extend Load Limiter Assembly
Figure 1

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ILLUSTRATED PARTS LIST
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| FIG. & ITEM | PART NO. | AIRLINE PART NUMBER | NOMENCLATURE 1234567 | EFF CODE | QTY PER ASSY |
|-------------|-------------|---------------------|--|----------|--------------|
| 01- -1 | 257T3502-2 | | LIMITER ASSY-NOSE GR ALTERNATE EXTEND LOAD | A | RF |
| -1A | 257T3502-3 | | LIMITER ASSY-NOSE GEAR ALTERNATE EXTEND LOAD | B | RF |
| -1B | 257T3502-4 | | LIMITER ASSY-NOSE GR ALTERNATE EXTEND LOAD | C | RF |
| -1C | 257T3502-5 | | LIMITER ASSY-NOSE GEAR ALTERNATE EXTEND LOAD (FOR DETAILS SEE FIG. 2) | D | RF |
| 3 | BACR15BB4AD | | .RIVET | C | 2 |
| 5 | AN316-5R | | .NUT | | 2 |
| 10 | M81935-1A4 | | DELETED | | |
| -10A | M81935-1-4 | | .BEARING | ABC | 1 |
| 15 | M81935-1A5 | | DELETED | | |
| -15A | M81935-1-5 | | .BEARING | ABC | 1 |
| 20 | MS24665-24 | | .PIN-COTTER | ABC | 1 |
| 25 | MS24665-153 | | .PIN-COTTER | ABC | 1 |
| 30 | BACN10JD106 | | .NUT- (V15653) (SPEC BACN10JD106) (OPT BACN10JD106 (V56878)) (OPT BACN10JD106 (V72962)) (OPT BACN10JD106 (V92595)) | | 1 |
| 35 | 257T3014-2 | | .WASHER | | 1 |
| 40 | S257T301-3 | | DELETED | | |
| -40A | HD4-3003-3 | | .CARTRIDGE (V04621) (SPEC S257T301-3) | A | 1 |
| -40B | HD4-3003-4 | | .CARTRIDGE (V04621) (SPEC S257T301-4) | BC | 1 |
| 45 | 257T3523-1 | | .CAP-END | ABC | 1 |
| 50 | 257T3524-2 | | .SHAFT | ABC | 1 |
| 55 | 257T3522-1 | | .HOUSING | ABC | 1 |

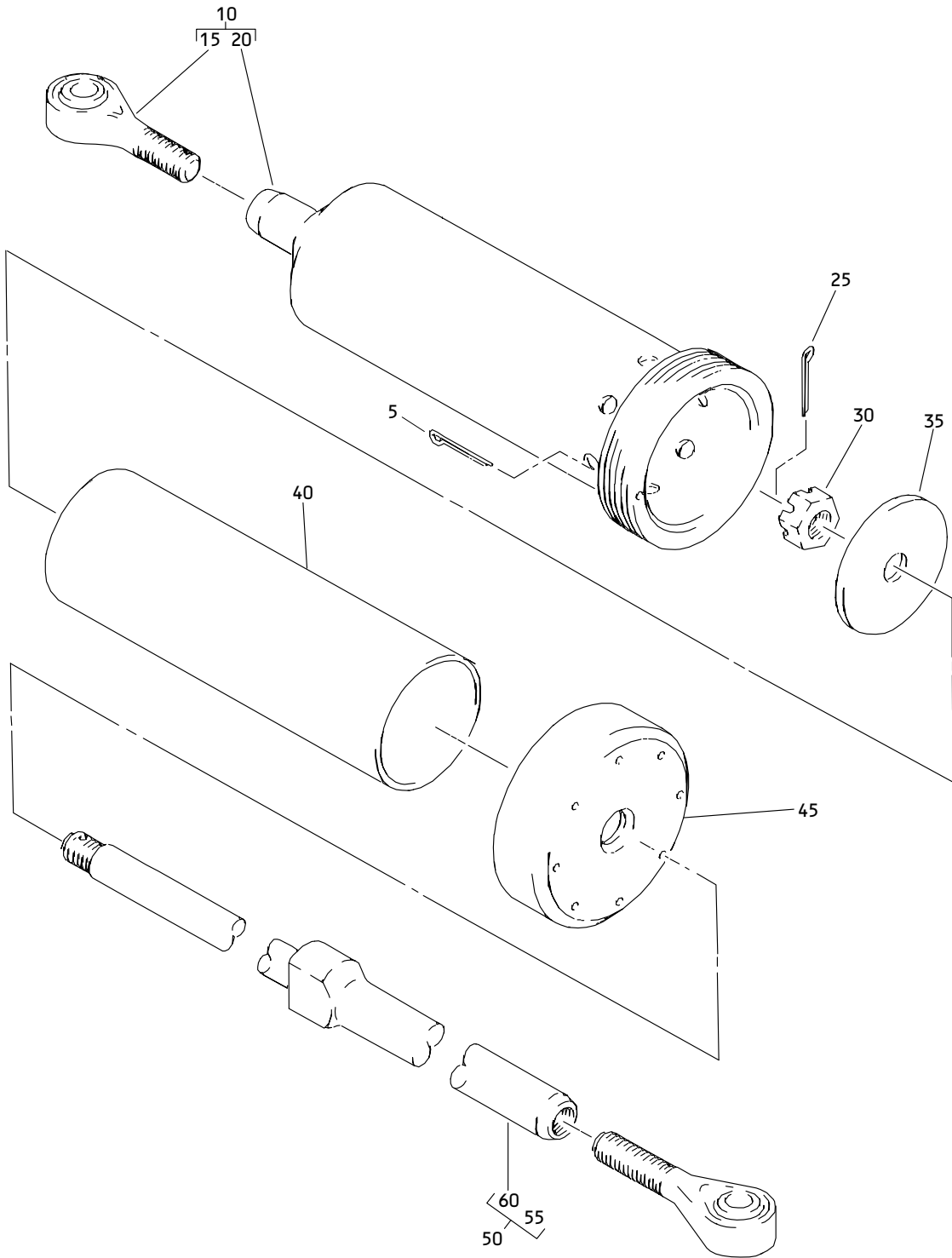
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Nose Gear Alternate Extend Load Limiter Assembly
 Figure 2

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 COMPONENT
 MAINTENANCE MANUAL

| FIG. & ITEM | PART NO. | AIRLINE PART NUMBER | NOMENCLATURE 1234567 | EFF CODE | QTY PER ASSY |
|-------------------|-------------|---------------------------|---|-------------|--------------------|
| 02- -1 | 257T3502-5 | | LIMITER ASSY-NOSE GR ALTERNATE EXTEND LOAD | D | RF |
| 5 | MS24665-24 | | .PIN-COTTER | D | 1 |
| 10 | 257T3522-3 | | .HOUSING ASSY | D | 1 |
| 15 | 257T3528-1 | | ..ROD END | D | 1 |
| 20 | 257T3522-2 | | ..HOUSING | D | 1 |
| 25 | MS24665-153 | | .PIN-COTTER | D | 1 |
| 30 | BACN10JD106 | | .NUT | D | 1 |
| 35 | 257T3014-2 | | .WASHER | D | 1 |
| 40 | HD4-3003-4 | | .CARTRIDGE (V04621) (SPEC S257T301-4) | D | 1 |
| 45 | 257T3523-1 | | .CAP-END | D | 1 |
| 50 | 257T3524-4 | | .SHAFT ASSY | D | 1 |
| 55 | 257T3528-2 | | ..ROD END | D | 1 |
| 60 | 257T3524-3 | | ..SHAFT | D | 1 |

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