

# Rockwell service letter No. SL-AG-73

## International

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Service Letter No. SL-AG-73  
July 7, 1975

### REPLACEMENT OF TAIL WHEEL SHOCK STRUT EXTENSION ASSEMBLY

**MODELS AFFECTED:** MODEL S-2R, SERIAL NO'S 2167R THRU 2173R AND 5011R THRU 5048R.

**REASON FOR PUBLICATION:** To improve steering geometry and maintenance of tail wheel assembly.

**COMPLIANCE:** During next 100-hour inspection.

#### NOTE

**IF ANY PROBLEMS ARE ENCOUNTERED WHILE COMPLYING WITH THIS SERVICE LETTER, CONTACT ROCKWELL INTERNATIONAL, GENERAL AVIATION DIVISION, CUSTOMER SERVICE DEPARTMENT, BETHANY, OKLAHOMA 73008**

**BY WHOM WORK WILL BE ACCOMPLISHED:** A & P Mechanic

**APPROVAL:** FAA DER Approved

**ESTIMATED MAN HOURS:** Six (6) Hours

**PARTS DATA:** Parts required to comply with this Service Letter may be obtained, at no charge, from Rockwell International, General Aviation Division, Spare Sales Department, Albany, Georgia 31702. Reference this Service Letter, aircraft model and factory serial number when ordering Service Letter NO. SL-AG-73 kit consisting of the following:

Qty	Part No.	Description
1 ea.	50315-1	Shock Strut Extension Assy.
1 ea.	90020-1	Decal
1 ea.	AN3-19A	Bolt
2 ea.	AN960D10	Washer
2 ea.	AN960-516	Washer

1 ea.	MS21044N3	Nut
2 ea.	MS21044N5	Nut
2 ea.	NC2-3	Seal
1 ea.	P32-9	Bushing
1 ea.	Service Letter No. SL-AG-73	Instructions

**SPECIAL TOOLS:** None

**ACCOMPLISHMENT INSTRUCTIONS:**

1. Remove aft fuselage skins as necessary to gain access to tail wheel shock strut assembly upper attach bolts.
2. Jack airplane tail section as necessary to facilitate removal of tail wheel shock strut assembly.

**NOTE**

**Use the jack point provided at the left trunnion attach fitting.**

3. Remove bolts attaching tail wheel shock strut assembly and remove shock strut assembly.
4. Remove the air from the shock strut by depressing the air valve core pin until all air pressure has been relieved.
5. After shock strut assembly has been deflated, remove filler plug and drain all fluid.
6. Modify the existing shock strut assembly as follows:
  - a. Remove lockwire and four (4) nuts on the studs that hold the packing gland flange in place (see Figure 1.).
  - b. Remove the piston assembly from the strut body.
  - c. Remove and discard existing shock strut extension assembly and seals.
  - d. Install NC2-3 seal, AN960-516 washer and MS21044N5 nut (2 places) on existing rods see Figure 1.).
  - e. Press fit P32-9 bushing in 50315-1 shock strut extension assembly (see Figure 1.).
  - f. Install 50315-1 shock strut extension assembly on existing shock strut assembly using existing hardware (see Figure 1.).
  - g. Drill a 0.192 (+0.002, -0.001) inch diameter hole through shock strut cap and extension assembly (see Figure 1.).

- h. Spot face holes drilled in shock strut cap 0.47 ( $\pm$  0.03) inch diameter to seat AN960D10 washer (see Figure 1.).
- i. Install AN3-19A bolt, AN960D10 washer (2 places) and MS21044N3 nut (see Figure 1.).
- j. Reinstall piston assembly in strut body, tighten four (4) nuts just enough to prevent leakage past packing rings, and safety nuts with 0.040 inch diameter stainless steel safety wire.

### **CAUTION**

**Nuts should be tightened down on studs evenly to prevent uneven pressure on the packing rings and to prevent the packing gland from binding on the inside of the cylinder.**

- 7. With strut assembly in a vertical position and fully compressed, fill with MIL-H-5606 oil up to filler hole and install filler plug.
- 8. Inflate shock strut assembly to 450 psi air pressure and check for leaks.
- 9. Install 90020-1 decal (see Figure 1.).
- 10. Reinstall modified shock strut assembly on airplane using existing hardware.

**ELECTRICAL LOAD:** No Change

**WEIGHT AND BALANCE:** No Change

**PUBLICATIONS AFFECTED:** The Illustrated Parts Catalog changes required by this document will be incorporated at the next scheduled change/revision.

**RECORD COMPLIANCE:** Make appropriate entry in airplane maintenance records as follows:

Service Letter NO. SL-AG-73 dated July 7, 1975, entitled "Replacement of Tail Wheel Shock Strut Extension Assembly", accomplished (date) \_\_\_\_\_.

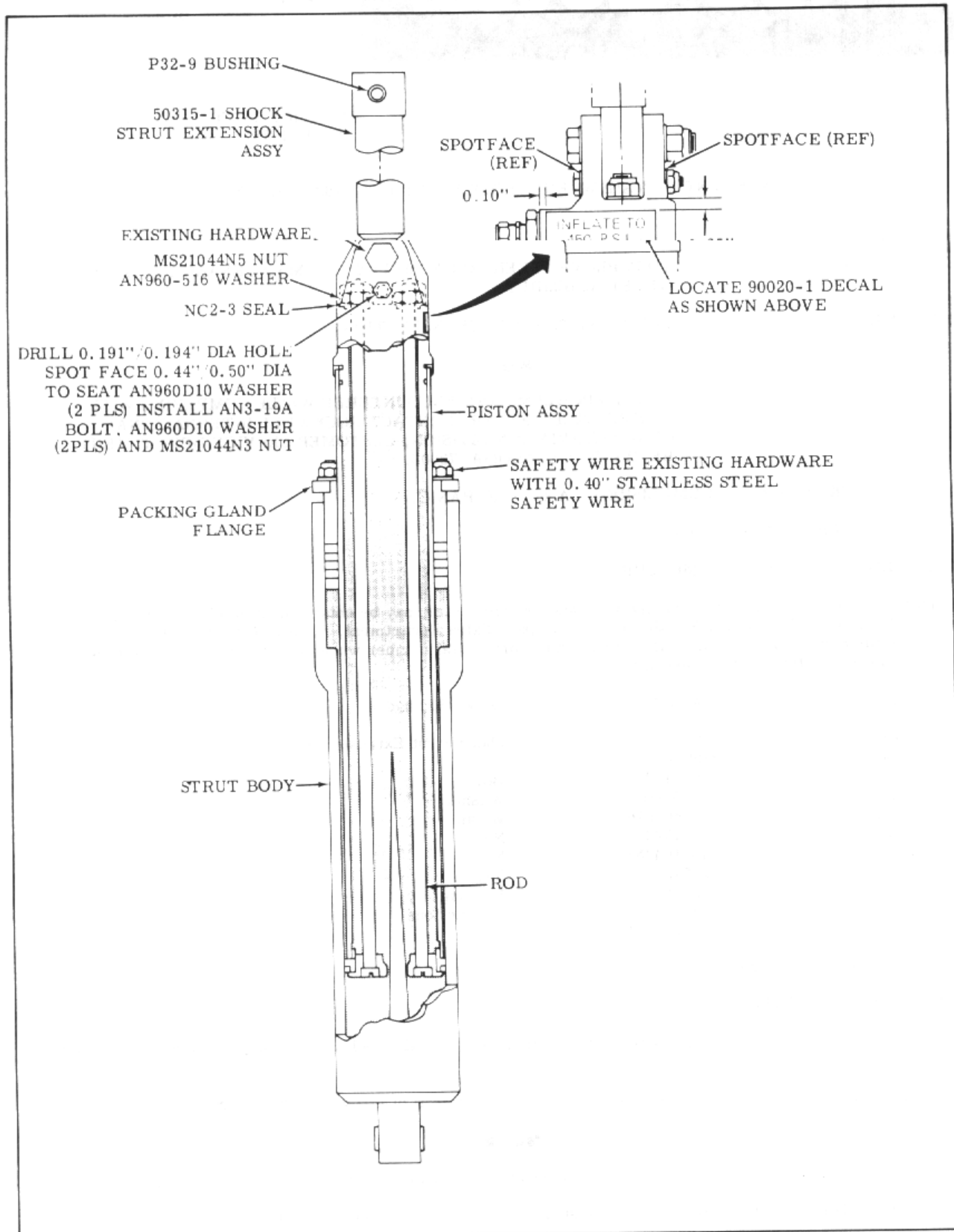


Figure 1.