

DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS, UNITED STATES AIR FORCE  
WASHINGTON

TECHNICAL ORDER  
NO. 01-100LAA-21

21 February 1949

INSPECTION OF NOSE GEAR INNER CYLINDER BEARING RETAINER NUT -  
L-17A (RYAN-FORMERLY NORTH AMERICAN)

**By whom work will be accomplished:** Organizational maintenance activities, with the aid of field maintenance facilities if necessary.

**When work will be accomplished:** As soon as possible, but not later than the next 25-hour inspection period.

**AF form entry required:** 60A.

**Modification of spares in stock:** Spare auxiliary landing-gear strut assemblies, part No. 145-34102, in stock will be inspected as directed herein prior to installation.

1. PURPOSE.

To prevent operational failure of the auxiliary landing-gear strut assembly, part No. 145-34102, the nut securing the cylinder bearing retainer will be inspected on all L-17A aircraft in accordance with the instructions contained in paragraph 2.

2. INSPECTION PROCEDURE.

a. Jack the aircraft or pull the tail of the aircraft down and secure with weights to hold the nose wheel clear of the ground.

b. Disconnect the nose gear torque links, part Nos. 145-34138, and 145-34139, by removing bolt, part No. AN4-17, and remove nose wheel fork from strut by removing four bolts through collar, part No. 145-34143.

c. Deflate the nose gear strut by removing nose gear strut filler body, part No. AN812-1.

d. Remove nut, part No. AN316-14R, securing inner cylinder. (See figure 1.)

e. Remove piston from barrel of nose gear strut.

f. Remove inner cylinder from piston.

g. Inspect bearing retainer ring, part No. 145-34203, to see that it is down tight against the bearing, and stake it again if necessary. (See figure 1.)

h. Inspect nut, part No. AN316-8R, for tightness against bearing and stake.

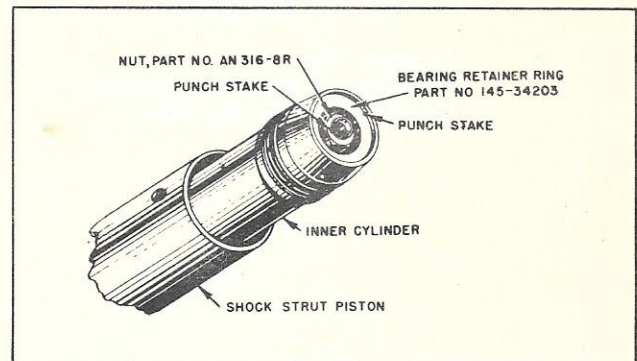


Figure 1

- i. Clean inner cylinder.
- j. Reinstall inner cylinder in nose gear piston.
- k. Install piston into barrel of nose gear strut.
- l. Reinstall inner cylinder nut removed in paragraph 2.d.
- m. Connect nose gear torque links and nose wheel fork removed in paragraph 2.b.
- n. Lower aircraft to ground.
- o. Fill strut with hydraulic fluid, Specification No. AN-O-366, and inflate.

3. SUPPLY DATA.

The following material is required per aircraft to accomplish this change:

| QTY    | STOCK NO.   | NOMENCLATURE   | CLASS | SOURCE   |
|--------|-------------|--|-------|----------|
| As req | 7500-140800 | Fluid - Hydraulic, petroleum base, Spec No. AN-O-366 | 06-B  | AF Stock |

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4. MAN-HOURS REQUIRED.

Approximately 4 man-hours are required per aircraft to accomplish this inspection.

5. WEIGHT AND BALANCE INFORMATION.

The weight and balance change resulting from the instructions contained herein is negligible.

BY ORDER OF THE SECRETARY OF THE AIR FORCE:

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