

R44

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SERVICE BULLETIN SB-42

DATE: 01 August 2001

TO: All R44 Owners, Operators, and Service Centers

SUBJECT: C181-3 Lower Clutch Actuator Bearing Lubrication

ROTORCRAFT AFFECTED: All R44 Helicopters.

TIME OF COMPLIANCE: Every 300 flight hours or annually, whichever occurs first. Additionally, for R44s S/N 0640 and prior, initial compliance by 31 Oct 2001.

BACKGROUND: RHC has received reports of C181-3 lower actuator bearings failing due to insufficient lubrication.

COMPLIANCE PROCEDURE:

NOTE: Syringe necessary for the following procedure is included in kit KI-115, available from RHC Customer Service.

1. Fill syringe with 4-5 grams of A257-12 grease (commercially available, see R44 Maintenance Manual section 1.470). Note: 5 grams of grease fills a 1.0 inch (25 mm) long space inside a syringe body with a 0.63 inch inner diameter.
2. Remove set screw plug from left side of C181-3 bearing housing. Set screw may be covered by Telatemp; remove Telatemp as required to access screw. It is not necessary to replace Telatemp. Note: Aft cowling may be removed to ease bearing access.
3. Using syringe, inject grease through set screw hole.
4. Clean set screw and set screw hole threads thoroughly with cotton swab, then install set screw using B270-1 or B270-3 sealant or wet epoxy primer or wet zinc-chromate primer on threads. Tighten only until set screw is flush with bearing housing.

CAUTION

Set screw hole is through to bearing housing cavity. Tightening set screw further than flush-with-housing can result in set screw contacting and damaging internal bearing assembly components.

(OVER)

5. Ground run helicopter at 102% RPM for two minutes, shut down, inspect, and clean off any escaped grease.
6. Install aft cowling if removed.
7. Make appropriate maintenance record entries.

Approximate Cost:

Parts: \$10.25.
Labor: 0.5 man-hour.