

R22

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SERVICE BULLETIN SB-89

DATE: 01 August 2001

TO: All R22 Owners, Operators, and Service Centers

SUBJECT: A184 Upper Clutch Actuator Bearing Lubrication

ROTORCRAFT AFFECTED: All R22 Helicopters.

TIME OF COMPLIANCE: Every 300 flight hours or annually, whichever occurs first. Additionally, for R22s S/N 2970 and prior, initial compliance by 31 Oct 2001.

BACKGROUND: RHC has received reports of A184 upper actuator bearings failing due to insufficient lubrication.

COMPLIANCE PROCEDURE:

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

1. Fill syringe with 2-3 grams of A257-12 grease (commercially available, see R22 Maintenance Manual section 1.470). Note: 2.5 grams of grease fills a 0.5 inch (13 mm) long space inside a syringe body with a 0.63 inch inner diameter.
2. Thoroughly clean an accessible portion of A184 upper actuator bearing aft rubber seal and surrounding surface.
3. Gently press plastic tip of syringe against cleaned seal inner lip until lip deflects inward and tip slips into bearing. Do not damage seal. Inject grease with syringe perpendicular to seal. Withdraw syringe. Note that part of seal inner lip remains deflected inward.
4. Slide tip of steel probe under seal inner lip and return deflected portion of lip to its original position. Do not damage seal.
5. Ground run helicopter at 104% RPM for two minutes, shut down, inspect, and clean off any escaped grease.
6. Make appropriate maintenance record entries.

WARNING

The bearing used in A184 bearing assembly has modified internal clearance for use on R22. Do not substitute any other bearing.

Approximate Cost:

Parts: \$10.25.
Labor: 0.3 man-hour.

THE DESIGN ENGINEERING ASPECTS OF THIS BULLETIN HAVE BEEN SHOWN TO COMPLY WITH APPLICABLE FEDERAL AVIATION REGULATIONS AND ARE FAA APPROVED.