

**R22**

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**SERVICE LETTER #48**

**DATE:** 04 March 1997

**TO:** All R22 Owners, Operators, and Service Centers

**SUBJECT:** A184 Upper Clutch Actuator Bearing

**ROTORCRAFT AFFECTED:** All R22 Helicopters

**TIME OF COMPLIANCE:** Every 300 flight hours or 3 years, whichever occurs first.

**BACKGROUND:** RHC has received sporadic reports of the A184 upper actuator bearing failing due to insufficient lubrication.

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**COMPLIANCE PROCEDURE:**

- 1) Order KI-115 kit (syringe and probe) from RHC Customer Service.
- 2) Fill syringe with 2-3 grams of A257-12 grease (commercially available, see R22 Maintenance Manual section 1.440). 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.
- 3) Thoroughly clean an accessible portion of A184 upper actuator bearing aft rubber seal and surrounding surface.
- 4) 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.
- 5) Slide tip of steel probe under seal inner lip and return deflected portion of lip to its original position. Do NOT damage seal!
- 6) Run up helicopter to 104% RPM, shut down, inspect, and clean off any escaped grease.

**WARNING**

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

**APPROXIMATE COST:**

LABOR: 0.2 manhour

PARTS: \$10.00