

**ROBINSON
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SERVICE LETTER #31

DATE: 12 April 1988

TO: All Robinson R22 Owners, Operators & Service Centers

SUBJECT: A184-1 Clutch Bearing

AIRCRAFT AFFECTED: All R22 Helicopters

BACKGROUND: There have been occasional reports of the upper actuator or clutch bearing outer race gradually rotating in the A184 housing. (This ball bearing is located just aft of the upper vee belt sheave.) This could cause fretting between the bearing outer race and the housing. In the extreme case, it could allow the bearing to gradually creep completely out of the housing leading to failure of the vee belt drive.

CORRECTIVE PROCEDURE:

1. Check the torque stripe lines on the bearing outer race and the housing to insure that no rotation has occurred. It may be necessary to apply new torque stripes if the present stripes are not clear. Instruct all pilots flying the aircraft to include this check in their daily preflight inspection.
2. If rotation between the bearing outer race and the housing occurs, the bearing assembly must be replaced. Refer to paragraphs 7.213 and 7.214 of the R22 Maintenance Manual for replacement instructions.