

ROBINSON HELICOPTER COMPANY

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SERVICE BULLETIN #63

DATE: 6 June 1990

TO: All R22 Owners and Service Centers

SUBJECT: Replacement of Fan Shaft Bearing

ROTORCRAFT AFFECTED: All R22 Helicopters S/N 0002 thru 1306
Except: S/N 1305, 1287, 0120, 0594, 0027,
1136, 0555, 0211 and any aircraft
overhauled at RHC after March 1990.

TIME OF COMPLIANCE: Within the next 50 flight hours or by 15
September 1990, whichever occurs first.

BACKGROUND:

There have been a number of fan shaft bearing failures. A new type of roller bearing has now been developed and tested for the R22 fan shaft which has considerably more capacity than the previous ball bearings used in that application. As failure of this bearing could result in loss of power to the rotor, it must be replaced as soon as possible.

COMPLIANCE PROCEDURE:

1. Remove and replace all A181-3 Ball Bearing Assemblies with A181-4 Roller Bearing Assemblies. To facilitate replacement, order A007-3 Shaft & Bearing exchange assembly. It will contain the new A181-4 Roller Bearing Assembly. Then return the old A007-3 assembly to RHC for core credit. Removal and installation of the A007-3 fan shaft and bearing assembly shall be accomplished per Section 7.290 of the R22 Maintenance Manual.
2. Check the clutch centering and sheave alignment per Service Letter #35.

APPROXIMATE COST: LABOR: 3 to 5 Manhours

MATERIAL: \$492* (Plus a \$455 refundable core deposit.)

* To encourage quick return of the reusable shafts, there will be a special 50% discount of \$246 if the core is returned to RHC before 31 July 1990.