

R22 SERVICE LETTER SL-78

DATE: 20 December 2017

TO: R22-series Owners, Operators, and Maintenance Personnel

SUBJECT: A190-2 Drive Belts

ROTORCRAFT AFFECTED: R22-series helicopters.

BACKGROUND: RHC has received reports of A190-2 drive belts stretching beyond service limits at relatively low time-in-service. The maximum allowable engine-to-upper frame dimension has been increased to accommodate early-service belt stretch.

COMPLIANCE PROCEDURE:

1. Adjust engine ring gear-to-upper frame dimension per R22 Maintenance Manual (MM) § 6.130 except use 3.75 inches instead of 3.65 inches as maximum allowable dimension. The larger dimension allows for additional drive belt stretch before belt replacement is necessary due to clutch shaft angle (MM § 7.240) or actuator extension (MM Fig. 7-15) limits.
2. Adjust sheave alignment per MM § 7.230.
3. Rotate drive train by hand with actuator disengaged. Verify minimum 0.100 inch clearance between intermediate flex coupling and A331-1 bellcrank-to-A121-17 push-pull tube attach bolt. As required, increase clearance by removing washers and changing bolt length described in R22 MM § 8.542 "NOTE".
4. Return to RHC for warranty consideration any A190-2 drive belts that required replacement prior to accumulating 100 hours time-in-service.