



**R22 SERVICE LETTER SL-100**

**DATE:** 16 September 2025

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

**SUBJECT:** Main Rotor Blade Spindle Bearing Replacement

**BACKGROUND:** RHC has conducted a significant engineering investigation over the last 2 years to determine the root cause of short-lived spindle bearings. The investigation revealed that the preload on the spindle bearings is a critical factor in determining bearing life. As a result, RHC now matches spacers to each spindle bearing set to ensure proper bearing preload.

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**SUMMARY:**

Spindle bearings have a high preload by design. If the installed bearings are rotated by hand they will feel slightly rough; this is normal.

Do not modify the spacers included in the KI-2210-1 or KI-2210-2 Spindle Bearing Replacement Kits, and do not mix spacers between bearing sets or reuse any spacers. Spindle bearing spacers are matched to the serialized bearing set to obtain the required preload. Any modification of the spacers will void the product warranty.

Spindle bearings may only be replaced by authorized Service Centers that have met the requirements of R22 Service Letter SL-81 (latest revision).

RHC continues to evaluate further design improvements to extend spindle bearing life and will notify operators of any changes or recommendations.