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R44 SERVICE BULLETIN SB-92

DATE: 14 November 2016

TO: R44 & R44 II Owners, Operators, and Maintenance Personnel

SUBJECT: Tail Rotor Drive Shaft Damper Bearing

ROTORCRAFT AFFECTED: R44 Helicopters S/N 0006 thru 2449 and R44 II Helicopters S/N 10001 thru 14026.

TIME OF COMPLIANCE: Within next 200 flight hours or by 31 October 2017, whichever occurs first.

BACKGROUND: RHC has received reports of tail rotor drive shaft damper bearing seals rotating. A rotating seal may lead to loss of lubricant. This bulletin requires applying B270-1 sealant to seals of damper bearing (2 places) to prevent seal rotation.

COMPLIANCE PROCEDURE:

1. If tail rotor drive shaft is installed in tailcone: Remove forward inspection plug assembly from tailcone. Remove B322-2 cover from atop tailcone third bay, or if antenna is installed, pull associated avionics circuit breakers and remove antenna.

2. Refer to Figure 1. Visually inspect forward and aft sides of damper bearing (refer to R44 Illustrated Parts Catalog Figure 65-5) and verify minimum 0.5 inch length of B270-1 sealant anywhere along junction of black seal and bearing outer race.

3. As applicable, clean accessible portion of seals lacking sealant with cotton swabs dampened with acetone. Using a smooth, rounded tool of sufficient length, apply a minimum 0.5 inch long bead of B270-1 sealant at most accessible junction of seal and bearing outer race; sealant contact with housing is permissible. Allow sealant to cure.

4. Install forward plug assembly and verify security. Install B322-2 cover, or install antenna and push in associated circuit breakers. Verify cover or antenna security.

5. Make appropriate maintenance record entries. No change to helicopter weight and balance.

(OVER)

APPROXIMATE COST:

Parts: None.

Labor: 1.0 man-hour.

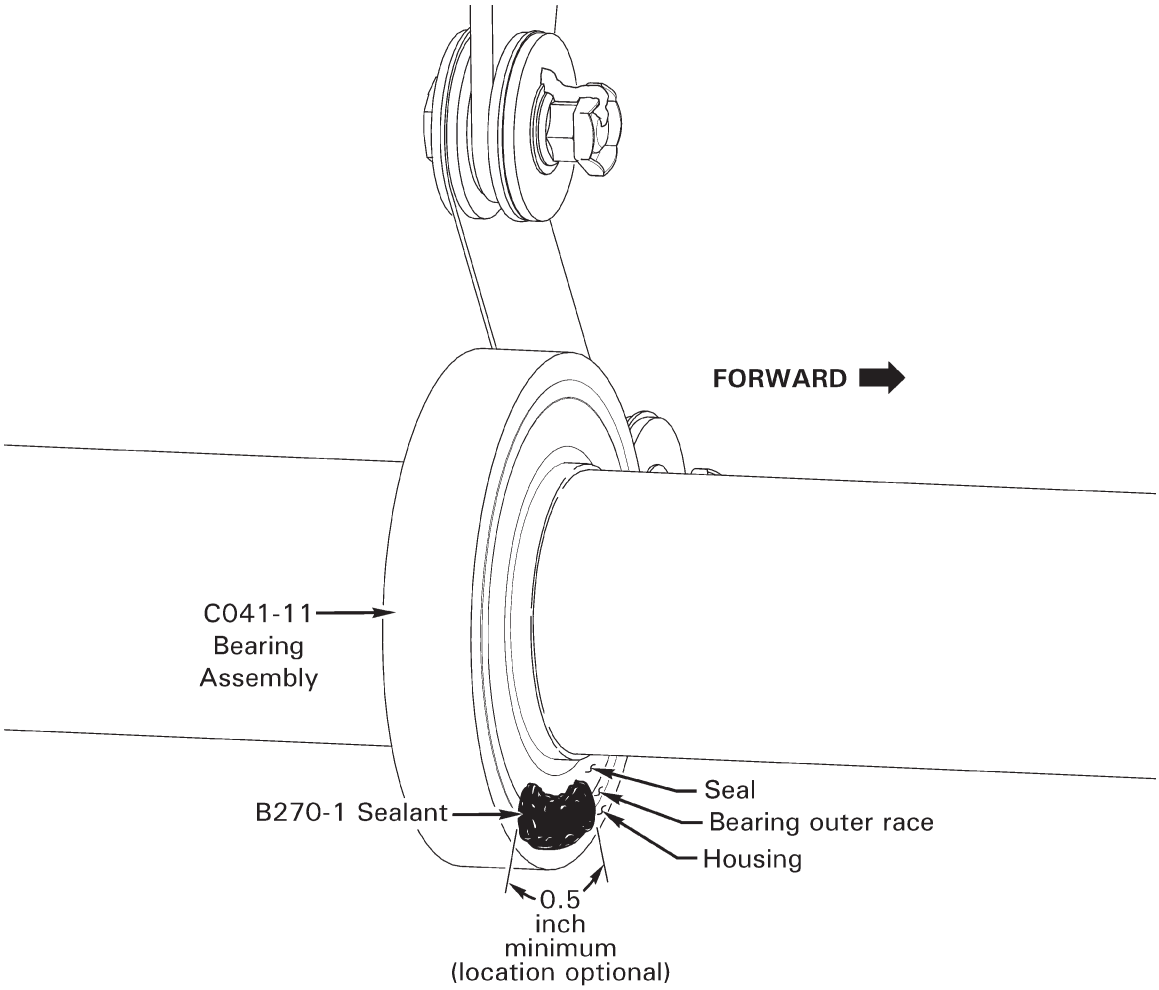

FIGURE 1

THE DESIGN ENGINEERING ASPECTS OF THIS BULLETIN HAVE BEEN SHOWN TO COMPLY WITH APPLICABLE FEDERAL AVIATION REGULATIONS AND ARE FAA APPROVED.