

**R66 SERVICE BULLETIN SB-09**

**DATE:** 03 July 2013

**TO:** R66 owners, operators, and maintenance personnel

**SUBJECT:** Rotor RPM Sender Magnets

**ROTORCRAFT AFFECTED:** R66 helicopters S/N 0004 thru 0414, spare F006-1 main rotor gearbox assemblies, spare F908-1 yoke assemblies, and spare 102MG11 magnets. B570-1 magnets with black epoxy fillet are unaffected (see Figure 1).

**TIME OF COMPLIANCE:** Within next 100 flight-hours or by 31 October 2013.

**BACKGROUND:** RHC received a report that a MRGB yoke assembly's 102MG11 magnet came out of its housing during flight and activated the low-rotor RPM warning system. This bulletin requires applying additional adhesive to affected magnets.

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**COMPLIANCE PROCEDURE:**

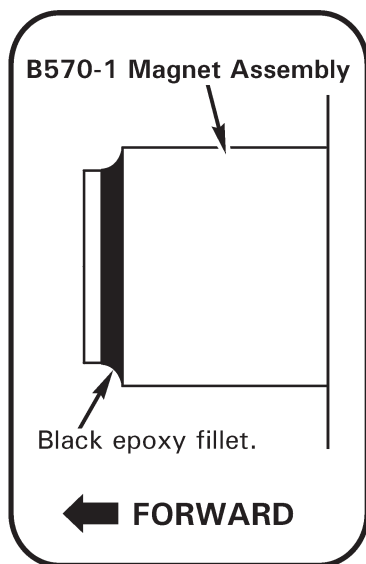
1. Refer to Figure 2. At F908-1 yoke assembly, if a yellow dot is painted on both sides of yoke shaft in line with 102MG11 magnets, the requirements of this bulletin have been complied with. Proceed to step 8.
2. If gearbox is installed, remove tailcone cowling per R66 Maintenance Manual (MM) § 53-23.
3. Refer to Figure 3. Rotate blades as necessary. Press in on magnet with finger to ensure magnet is completely seated in magnet housing. Apply B270-10 adhesive to create a continuous fillet between magnet and magnet housing. Repeat for second magnet.
4. Allow adhesive to cure for a minimum of 4 hours.
5. Wipe off adhesive from magnet exterior (adhesive will be drawn into space between magnet and housing and will be dry in this location, but wet on the exterior.)
6. Paint a yellow dot on both sides of yoke shaft in line with magnet.
7. If applicable, install tailcone cowling per MM § 53-23.
8. Make appropriate maintenance record entries.

(OVER)

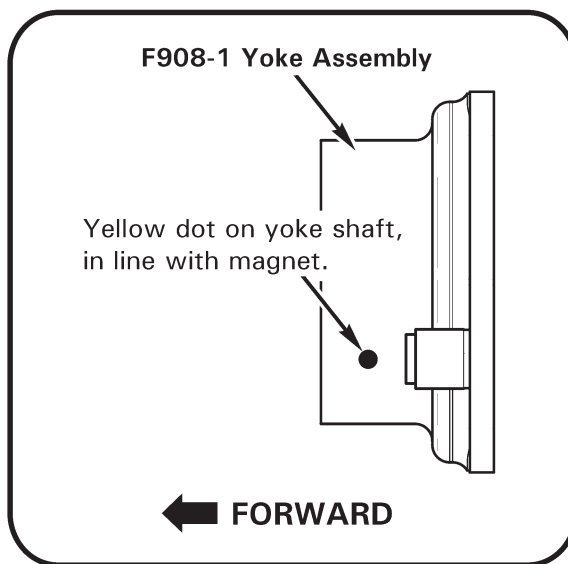
**Approximate Cost:**

Parts: B270-10 adhesive (refer to MM § 20-79). B270-10.5ml (0.5 ml; \$3.50) and B270-10 (50 ml; \$74.00) quantities are available from RHC.

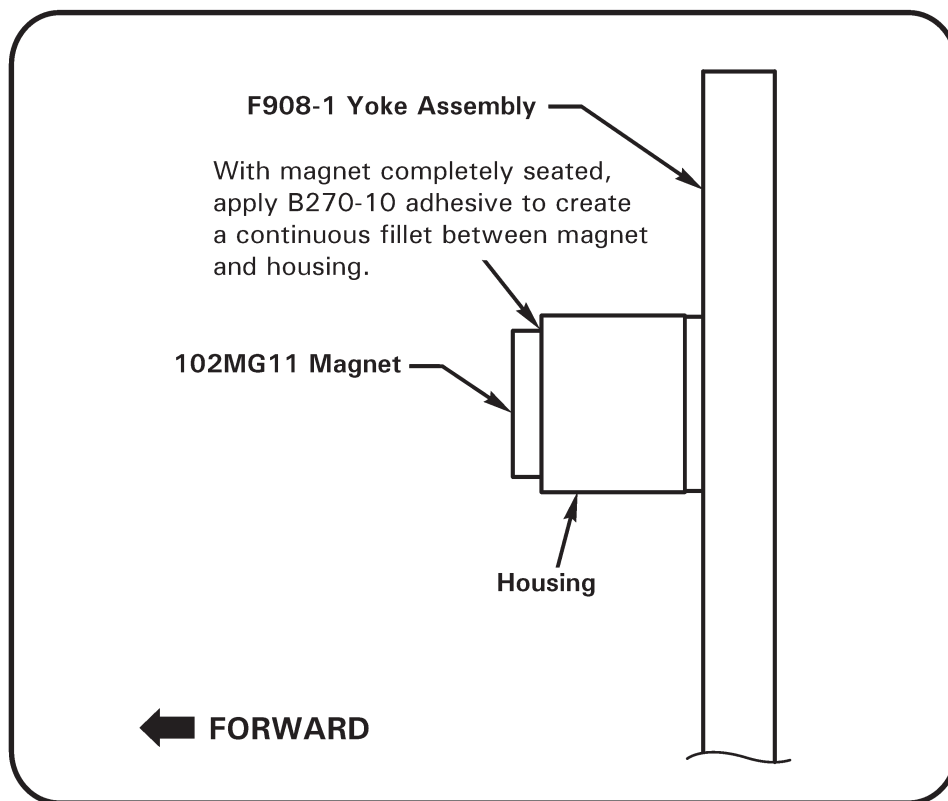
Labor: 1.0 man-hour, excluding adhesive cure time.



**FIGURE 1**



**FIGURE 2**



**FIGURE 3**