

R66 SERVICE BULLETIN SB-10

DATE: 21 November 2013

TO: R66 owners, operators, and maintenance personnel

SUBJECT: Hanger Bearing Assembly

ROTORCRAFT AFFECTED: R66 helicopters S/N 0004 thru 0472. Also spare F172-1 revision B bearing assemblies. F172-1 revision C bearing assemblies are not affected (see Figure 1).

TIME OF COMPLIANCE: Within next 100 flight-hours or by 28 February 2014, whichever occurs first.

BACKGROUND: RHC received a report of a tail rotor drive shaft hanger bearing that partially separated from its housing. This bulletin requires installing retainers on affected bearing assemblies.

COMPLIANCE PROCEDURE:

1. Refer to Figure 1. If G802-2 retainers are installed, the requirements of this bulletin have been complied with. Proceed to step 8.
2. Order one KI-222 kit per affected helicopter or per spare F172-1 revision B bearing assembly.
3. Remove tailcone cowling per R66 Maintenance Manual (MM) § 53-23. Visually inspect F172-1 bearing assembly and F193-1 hanger for damage. Contact [RHC Technical Support](#) if damage is found.
4. Refer to Figure 2. Loop a ty-rap (or similar) around aft end of F196-1 fan shaft and F020-1 upper frame to temporarily support tail rotor driveline.
5. Working with one bolt at a time, remove hardware securing F172-1 bearing assembly to F193-1 hanger and install new retainers, spacers, hardware, and existing washers as shown. Standard torque hardware per MM § 20-32 and torque stripe per Figure 5-1.
6. Remove temporary support between fan shaft and upper frame.
7. Install tailcone cowling per MM § 53-23.
8. Make appropriate maintenance record entries. There is no change to helicopter weight and balance.

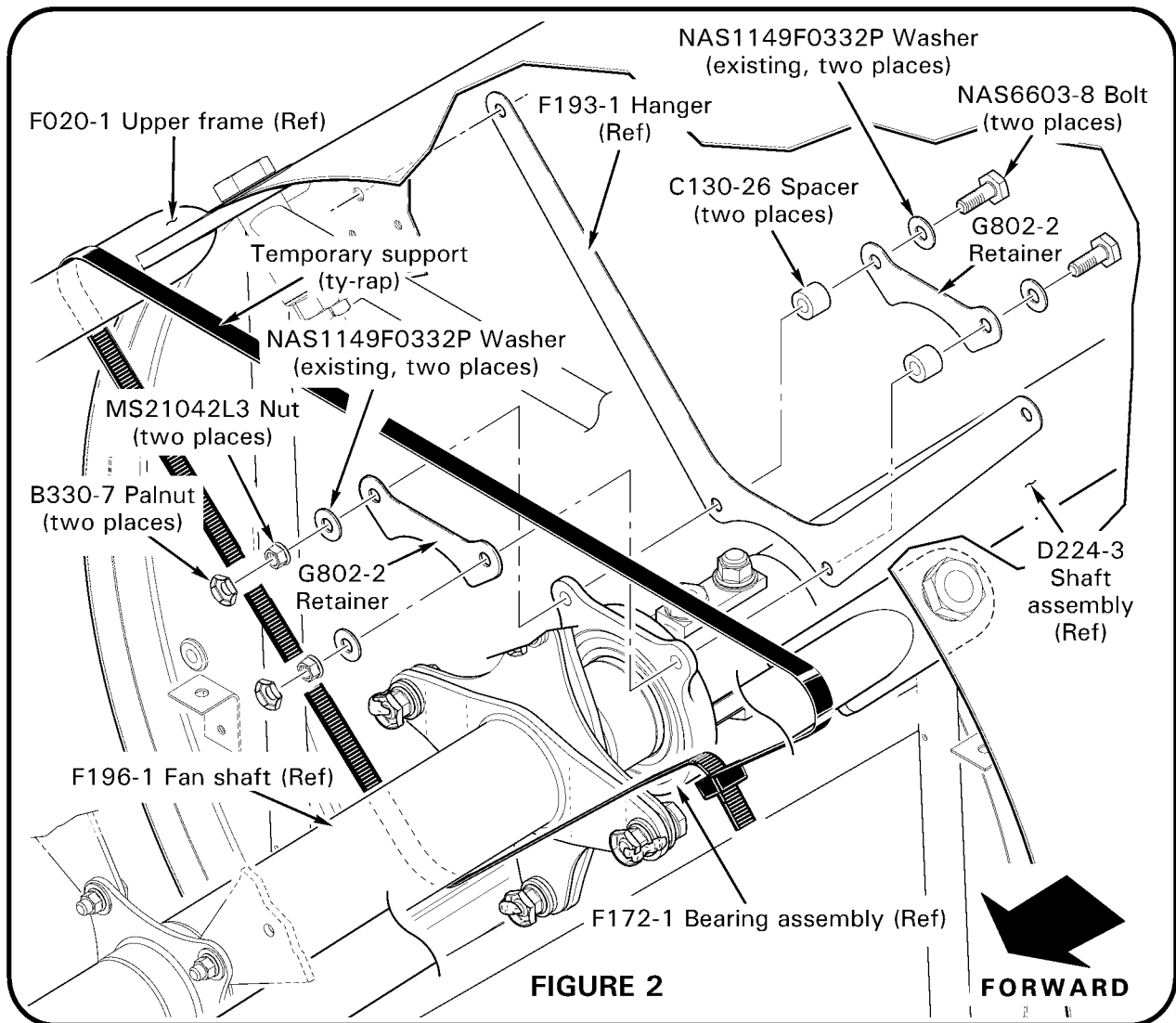
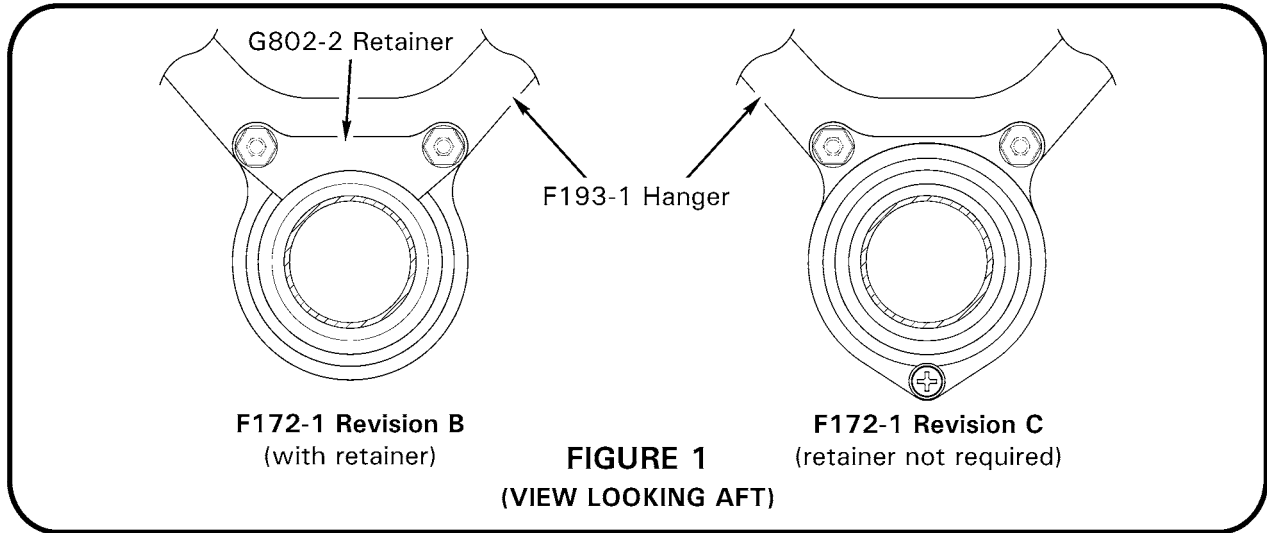
Approximate Cost:

Parts: No charge for KI-222 kit if ordered by 28 February 2014. Order must include helicopter serial number. Shipping costs are owner's responsibility.

KI-222 Kit includes (2) B330-7 palnuts, (2) C130-26 spacers, (2) G802-2 retainers, (2) MS21042L3 nuts, and (2) NAS6603-8 bolts.

Labor: 1.0 man-hour.

(OVER)



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