

**R66 SERVICE BULLETIN SB-21A**

(supersedes R66 SB-21)

**DATE:** 24 February 2017

**REV A:** 6 June 2017

**TO:** R66 Owners, Operators, and Maintenance Personnel

**SUBJECT:** Oil Tank Outlet Modification

**ROTORCRAFT AFFECTED:** R66 Helicopters S/N 0003 thru 0789, 0791, 0794, and 0796. Spare G689-1 revision J and prior oil tank assemblies are also affected.

**TIME OF COMPLIANCE:** Within next 100 flight hours or by 31 July 2017, whichever occurs first.

**BACKGROUND:** RHC has received additional reports of a broken oil tank internal baffle. A larger range of helicopters is affected than originally suspected. This bulletin requires installing an angle in the tank outlet that would prevent a failed baffle from blocking the outlet.

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**COMPLIANCE PROCEDURE:**

1. Refer to Figure 1. Visually inspect oil tank outlet fitting color; if fitting is blue (early revision tanks), tank is not eligible for installation of G805-1 angle and must be replaced. Replacement tanks may still require steps 2 thru 8 depending on revision level.
2. Locate G689-1 oil tank assembly identification ink stamp on top surface of oil tank, and determine revision letter, which immediately follows "G689-1".

**For revisions F, G, H, and I:**

- If SB-21 was previously accomplished, proceed to step 8.
- If SB-21 was not previously accomplished, order one G805-1 angle from RHC Customer Service, and proceed to step 3.

**For revision J:**

- If a yellow dot is present near ink stamp, G805-1 angle has been pre-installed at the factory. Proceed to step 8.
- If no yellow dot is present, order one G805-1 angle from RHC Customer Service, and proceed to step 3.

**For revision K or subsequent:**

- Tank is not affected. No further action is required.

(OVER)

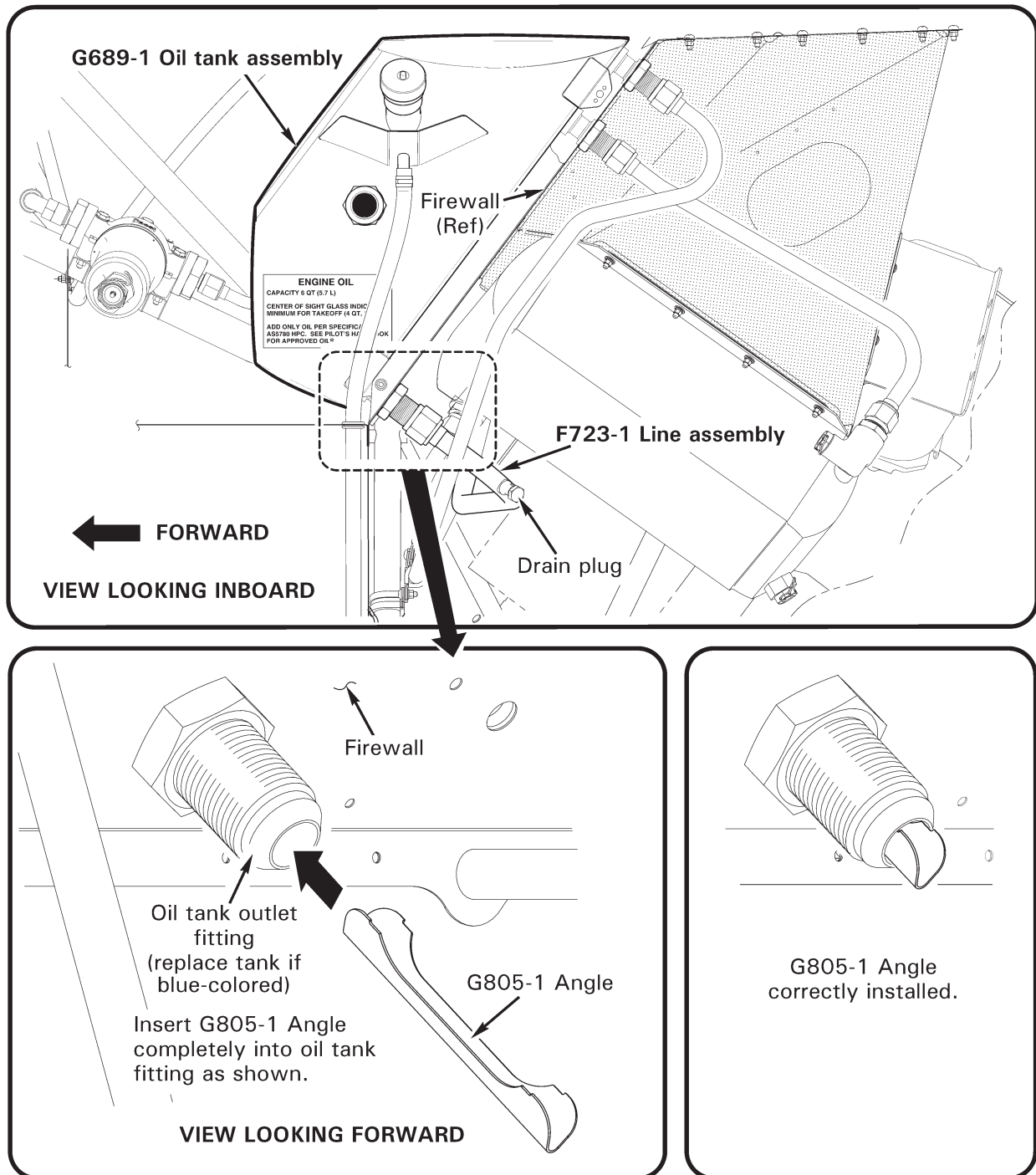
**COMPLIANCE PROCEDURE (cont'd):**

3. Drain engine oil per R66 Maintenance Manual (MM) § 12-60. Utilize a suitable clean container if reuse of oil is intended.
4. Refer to Figure 1. Disconnect F723-1 line assembly from tank fitting at firewall.
5. Pinch flanges of G805-1 angle minimum required to enable insertion, and insert angle (clock orientation optional) in oil tank outlet fitting until angle snaps in place.
6. Connect F723-1 line assembly to tank fitting. Special torque nut to 675 in.-lb. Torque stripe fitting per MM Figure 5-1.
7. Add engine oil per MM § 12-60.
8. Make appropriate maintenance record entries. No change to helicopter weight and balance.

**APPROXIMATE COST:**

Parts: No charge for one G805-1 angle if ordered by 31 July 2017. Reference helicopter serial number.

Labor: Approximately 1 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.