ROBINSON HELICOPTER COMPANY

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R66 SERVICE BULLETIN SB-42

DATE: 23 January 2024

TO: R66 Owners, Operators, and Maintenance Personnel

SUBJECT: Auxiliary Fuel Flow Sensor Circuit

ROTORCRAFT AFFECTED: R66 Helicopters S/N 0670, and 0719 thru 1319, except 1292 and 1315, equipped with Auxiliary Fuel System.

TIME OF COMPLIANCE: Within next 100 flight hours or by 31 March 2024.

BACKGROUND: RHC has determined that a fault within the auxiliary fuel flow sensor circuit may lead to an unsafe condition. This bulletin requires installing a fuse assembly to reduce the maximum current that can be supplied to the sensor.
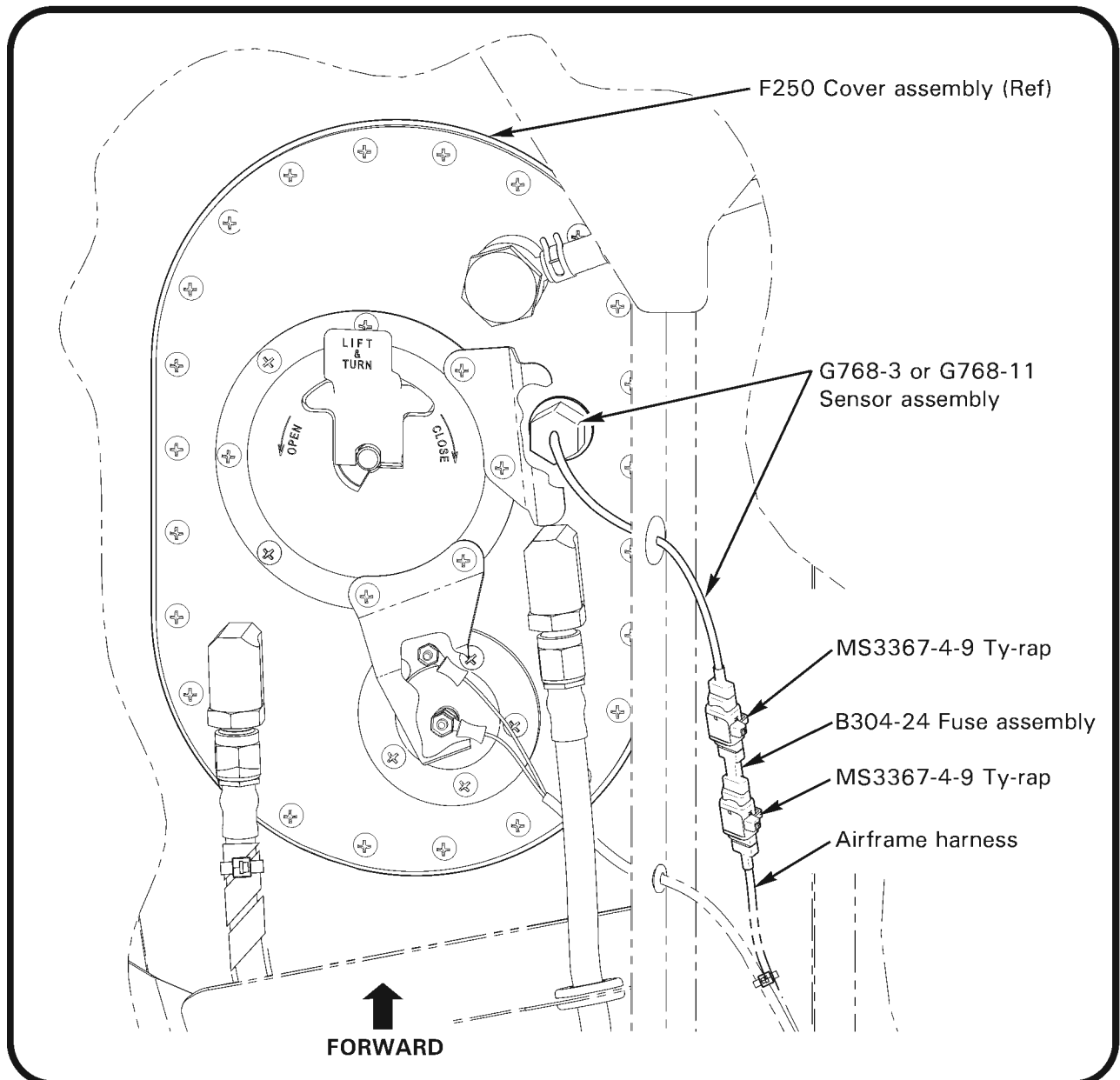

COMPLIANCE PROCEDURE:

1. For each affected helicopter, order (1) B304-24 fuse assembly and (2) MS3367-4-9 ty-raps from any R66 Dealer or Service Center, or order directly from RHC Customer Service (via RHC web site, fax, or phone).

2. Turn BATTERY switch OFF & pull open AUX FUEL PUMP (5 amp) circuit breaker at panel.

3. Remove F706-1 tailcone cowling per R66 Maintenance Manual (MM) § 53-23.

4. Refer to Figure 1. Cut and discard ty-rap and disconnect G768-3 or G768-11 sensor assembly from airframe harness at connectors. Verify no damage to harness portion of sensor; replace sensor as required.

5. Connect B304-24 fuse assembly to sensor & airframe harness at connectors, and install MS3367-4-9 ty-raps as shown. Cinch ty-raps until snug without overtightening and trim tips flush with heads.

6. Reset AUX FUEL PUMP circuit breaker.

7. At Pilot's Station: Verify aux fuel pump is switched off. Turn battery switch on. Press QUANTITY button to check aux fuel quantity and verify NO FLOW light illuminates. Turn battery switch off.

8. Install tailcone cowling per R66 MM § 53-23.

9. Make appropriate maintenance record entries.

(OVER)

APPROXIMATE COST:

Parts: No charge for B304-24 fuse assembly if ordered by 31 March 2024. Reference helicopter serial number.

Labor: 0.5 labor-hour.

FIGURE 1
(VIEW LOOKING DOWN)

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