



A Textron Company

ALERT SERVICE BULLETIN

212-18-159
13 September 2018

MODEL AFFECTED: 212

SUBJECT: FUEL FITTING P/N 50-040-1 AND 50-040-3, VERIFICATION OF.

HELICOPTERS AFFECTED: Serial numbers 30502 through 30603, 30611 through 30999, 31101 through 31311, 35001 through 35103 and, 32101 through 32142.

COMPLIANCE: Before next flight if flying in temperatures below 40°F (4.4°C) without anti-icing additive in the fuel or, within the next 25 flight hours or 30 days if using fuel anti icing additive.

NOTE: Fuel temperature may differ from ambient temperature. If the fuel temperature is suspected to be lower than the ambient temperature, measure fuel temperature to ensure it is not less than 40°F (4.4°C).

For operators not flying in temperatures below 40°F (4.4°C), within the next 25 flight hours or 30 days whichever occurs first after the release date of this bulletin.

DESCRIPTION:

In 1973 Bell released Alert Service Bulletin 212-10-73-1 mandating the removal of the screen in the boost pump outlet fuel fitting P/N S2490 due to the possibility of ice formation in sub-freezing temperatures. After the release of this ASB, two fuel fitting part numbers were introduced; P/N 50-040-1 (red fitting) with an internal screen and P/N 50-040-3 (blue fitting) without screen. These two fittings are shown in Figure 1 of this ASB.

The (red) fuel fitting 50-040-1 is a direct replacement for the S2490 for use in different applications. The (blue) fuel fitting P/N 50-040-3 (without screen) was introduced as a replacement to the S2490 to meet the requirement of ASB 212-10-73-1.

Due to an error that occurred in BHT-212-IPB Revision 9 (30 Mar 2012), an operator inadvertently installed fuel fitting P/N 50-040-1 with screen. BHT-212-IPB Figures 28-4 and 28-5 should have shown the (blue) fitting P/N 50-040-3 (without screen) as the replacement for the fitting S2490.

This ASB is being released in case other operators may have installed the incorrect fuel fitting not meeting the requirements of ASB 212-10-73-1. The verification consists of ensuring the proper fuel fitting installation; (red) fitting with screen removed or (blue) fitting without screen.

Applicability of this bulletin to any spare part shall be determined prior to its installation on an affected helicopter.

APPROVAL:

The engineering design aspects of this bulletin are FAA approved for FAA certified helicopters as listed in the applicable Type Certificate Data Sheet. For non FAA certified helicopters, the engineering design aspects of this bulletin are Bell Engineering approved.

CONTACT INFO:

For any questions regarding this bulletin, please contact:

Bell Product Support Engineering - Medium Helicopters
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MANPOWER:

Approximately 8.0 man-hours are required to complete this bulletin. This estimate is based on hands-on time and may vary with personnel and facilities available.

WARRANTY:

There is no warranty credit applicable for parts or labor associated with this bulletin.

MATERIAL:

Required Material:

Not required

Consumable Material:

The following material is required to accomplish this bulletin, but may not require ordering, depending on the operator's consumable material stock levels. This material may be obtained through your Bell Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Qty (Note)</u>	<u>Reference *</u>
MS29513-270	Packing, Preformed	2 (1)	
MS29513-113	Packing, Preformed	2 (1)	
MS29513-010	Packing, Preformed	2 (1)	

* C-XXX numbers refer to the consumables list in the BHT-ALL-SPM, Standard Practices Manual

NOTE 1: Above Consumable Material only required if Fuel Fitting and Fuel Sump Assembly are removed.

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not affected

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

BHT-212-IPB Illustrated Parts Breakdown
BHT-212-MM Maintenance Manual

PUBLICATIONS AFFECTED:

BHT-212-MM, Figures 28-4 (Item 82) and 28-5 (Item 74).

ACCOMPLISHMENT INSTRUCTIONS:

1. Determine if the previous ASB 212-10-73-1 has been carried out. If so, determine if the Fuel Fitting was replaced with the 50-040-1 since the release of Rev 9 in BHT-212-IPB, dated 30 Mar 2012.
2. If it can be confirmed that ASB 212-10-73-1 has been carried out and the fuel fitting has not been replaced with a 50-040-1 (with screen) or a (blue) fitting P/N 50-040-3 (without screen) is installed; proceed to Step 10, no further action is required.

3. When unsure if the Fitting has a screen installed or not, proceed to the next step.
4. Prepare the helicopter for maintenance.
5. Defuel helicopter (BHT-212-MM, Chapter 12)
6. Gain access to the Fuel Fitting by removing the fuel sump assembly from each of the two lower fuel cells. (BHT-212-MM, Para 28-32)
7. Confirm which fuel fitting is installed. If (blue) fuel fitting P/N 50-040-3 is installed, no further action is necessary. Re-install fuel sump assembly. (BHT-212-MM, Para 28-33, Figure 28-7)
8. If the (red) fuel fitting is installed, remove it and inspect for screen. If there is no screen installed, no further action is required. Re-install fuel fitting and fuel sump assembly. (BHT-212-MM, Para 28-33, Figure 28-7)

-NOTE-

Fuel Fitting P/N S2490 is identical to 50-040-1. The screen in S2490 or 50-040-1 pump outlet is to be removed prior to installing Fuel Fitting on pump.

9. If the (red) fuel fitting has a screen, remove it and re-install fuel fitting and fuel sump assembly. (BHT-212-MM, Para 28-33, Figure 28-7)
10. Make an entry in the helicopter logbook and historical service records indicating compliance with this Alert Service Bulletin.

**50-040-1
(with screen)**



**50-040-3
(without screen)**



**S2490 or 50-040-1
Fuel Fitting with
Screen Removed**



Figure 1