

# ALERT SERVICE BULLETIN



NO. 407-09-91  
DATE DEC 17, 2009  
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DATE
REV

**MODEL AFFECTED:** 407

**SUBJECT:** HOSE ASSEMBLY P/N 70-079H100F210, ONE TIME INSPECTION OF.

**HELICOPTERS AFFECTED:** 407 Helicopters 53000 through 53900, 53911 through 53931, 53933 through 53944, 53946 through 53959, 53962, 53964, 53966 through 53969.

407 helicopters serial number 53932, 53945, 53960, 53961, 53963, 53965 and 53970 and subsequent will be delivered with parts not affected by this bulletin.

**COMPLIANCE:** PART I  
A. For hoses in spares stock, immediately after receipt of this bulletin.  
B. For hoses installed on an aircraft, within the next 25 hrs.

PART II Within 300 flight-hours or 3 months, whichever occurs first.

**DESCRIPTION:**

Bell Helicopter has received a field report regarding a leaking fuel hose P/N 70-079H100F210 in the engine compartment. Upon review, it was discovered certain hoses may not meet engineering requirements which may result in leakage.

This bulletin requires the inspection and replacement of the affected hose, when identified based upon the manufacturing date and the preform number on the identification tag.

**APPROVAL:**

The engineering design aspects of this bulletin are Transport Canada Civil Aviation (TCCA) approved.

**MANPOWER:**

Approximately 1 man-hour is required to complete this bulletin. Man-hours are based on hands-on time, and may vary with personnel and facilities available.

**WARRANTY:**

Owners / Operators of Bell Helicopters who comply with the instructions in this Bulletin will be eligible to receive a credit towards a replacement hose.

To receive this credit:

- Comply with the instructions contained in this Bulletin no later than the applicable hours in the “compliance section” of this ASB, or before June 30, 2010.
- Purchase replacement parts as required in the materials section of this bulletin from a Bell approved source.
- Submit an MMIR to the Bell Warranty Department.

Customers who fail to comply with the instructions in this Bulletin after the June 30, 2010 are not eligible for the special warranty credit listed above. There is no labor associated with this bulletin.

**MATERIAL:**

**Required Material:**

The following material is required for the accomplishment of this bulletin and may be obtained through your Bell Helicopter Textron Supply Center.

<b><u>Part Number</u></b>	<b><u>Nomenclature</u></b>	<b><u>Quantity</u></b>
70-079H100F210	Hose	1
AS5174J0606	Union	1
MS29512-06	Packing	1

Note: The above parts are required only if an affected hose is installed.

**SPECIAL TOOLS:**

None required

**WEIGHT AND BALANCE:**

Not affected

**ELECTRICAL LOAD DATA:**

Not affected

**REFERENCES:**

BHT-407-MM Maintenance Manual

**PUBLICATIONS AFFECTED:**

None affected

**ACCOMPLISHMENT INSTRUCTIONS:**

**PART I: Inspection of hose and leak check**

**A. Hoses installed on aircraft:**

1. Gain access to the affected hose (see Figure 1) and locate hose identification tag.

**-NOTE-**

The manufacturing date and hose preform number are located on line #5 of the identification tag.

2. On the hose identification tag locate the manufacturing date and preform number of the hose assembly. Only hoses identified with date codes and preform number shown in table 1 are affected by this bulletin.
3. If an affected hose is found, start the aircraft and perform a leak test, paying particular attention for leaks at this hose.

4. If an affected hose is found with signs of leakage, proceed to PART II prior to further flight.
5. If an affected hose does not have signs of leakage, proceed to PART II within 300 flight-hours or 3 months, whichever occurs first.
6. Annotate aircraft records to reflect compliance with PART I of this bulletin and indicate findings.

**B. Hoses in spares stock:**

1. Verify spares stock for any affected hose, based on the manufacturing date and preform number as shown in Table 1.
2. Discard any affected hose found in the spares stock.

**Table 1. Hose manufacturing dates affected**

<b>Mfg Date</b>	<b>Preform #</b>		<b>Mfg Date</b>	<b>Preform #</b>
PT/1-30-09	2023L		PT/8-5-08	4000L
PT/1-30-09	9995K		PT/6-18-08	4009L
PT/12-17-08	2023L		PT/4-30-08	6663L
PT/11-24-08	2023L		PT/4-30-08	4009L
PT/5-12-09	4008L		PT/4-16-08	6663L
PT/3-26-09	2026L		PT/3-14-08	6663L
PT/2-26-09	2026L		PT/2-8-08	3997L
PT/10-2-08	4000L		PT/2-8-08	6655L
PT/9-5-08	4000L		PT/1-16-08	7378K
PT/8-13-08	4000L		PT/5-22-08	3988L

**PART II: Replacement of hose**

1. Remove affected hose.

**-NOTE-**

Replace the HMU union and packing when installing new hose.

2. Remove and discard the HMU union and packing.
3. Install packing on new union and install, torque to 200 to 250 in/lbs.
4. Install new hose assy, torque to 100 to 250 in/lbs.
5. Start the aircraft and perform a leak test.
6. Submit an MMIR to the Bell Warranty Department (as per the warranty section of this bulletin).
7. Annotate aircraft records to reflect compliance with PART II of this bulletin.

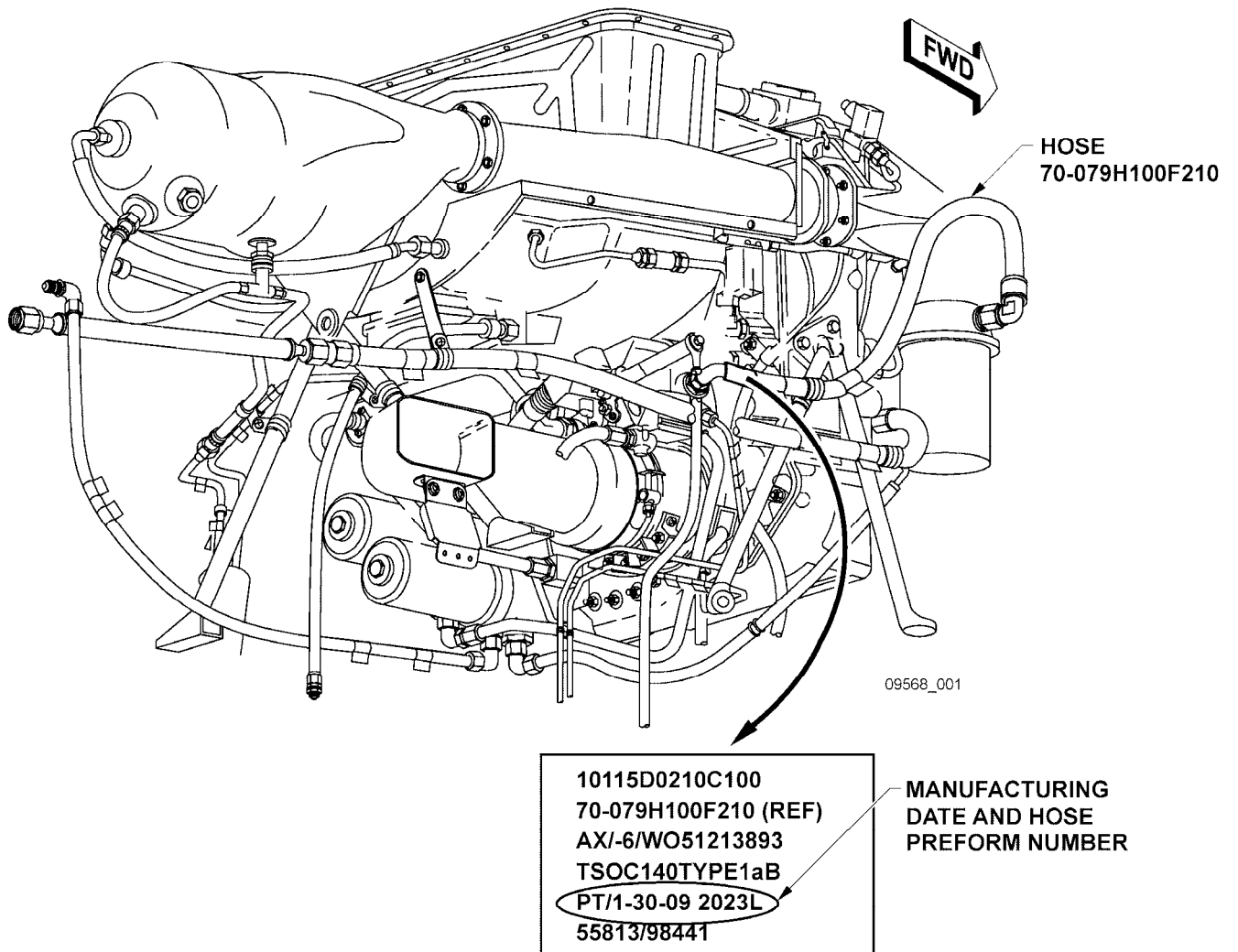


Figure 1 – Hose Identification Tag