

ALERT SERVICE BULLETIN

Bell Helicopter **TEXTRON**

A Subsidiary of Textron Inc.

NO. 407-00-38
DATE 12-08-00
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DATE

REV

MODEL AFFECTED: 407

SUBJECT: FUEL VENT LINE, REPLACEMENT OF

HELICOPTERS AFFECTED: Bell 407, S/N 53000 through 53481.

[Helicopters S/N 53482 and subsequent will have the intent of this bulletin completed before delivery.]

COMPLIANCE: At next scheduled 300 hour/Annual inspection.

DESCRIPTION:

Bell Helicopter has learned of several instances where the flexible fuel vent line 110-107-32A-035 has cracked and is allowing fuel vapors into the baggage compartment. Because of this, Bell Helicopter requires the replacement of the existing flexible fuel vent line.

This bulletin gives the instructions to replace the flexible fuel vent line 110-107-32A-035 in the aft baggage compartment area. The new vent line BEL103206001404 is made of a different, more durable material. It is a direct spares replacement for the existing fuel vent line.

APPROVAL:

The engineering design aspects of this Alert Service Bulletin are Transport Canada approved.

MANPOWER:

Approximately 1.0 man-hour is required to complete this bulletin. If auxiliary fuel tank is installed, approximately 4.0 man-hours are required to complete this bulletin. Man-hours are based on hands-on time, and can change due to needed personnel and facilities available.

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WARRANTY:

Owners/operators of 407 helicopters who comply with the instructions outlined in this bulletin are eligible for a 100 % credit toward the purchase of the part(s) contained in the “Required Material” section of this bulletin.

To receive this credit:

- The part(s) must be purchased from an approved BHTI supply source.
- Send a completed malfunction Report (MR) to BHT warranty Administration within 30 days of completion of this bulletin.

- NOTE -

Customers who fail to comply with the instruction in this bulletin prior to the next 300 hour/Annual inspection are not eligible for the special warranty credit provisions listed above.

MATERIAL:

Required Material:

The material that follows is required for the accomplishment of this Alert Service Bulletin and may be procured through your Bell Helicopter Textron Supply Center.

<u>PART NUMBER</u>	<u>NOMENCLATURE</u>	<u>QUANTITY</u>
BEL103206001404	Fuel Vent Line, Flexible	1

CONSUMABLE MATERIAL:

None required.

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

BHT-407-MM-4, Revision 4 – December 16, 1996

Chapter 28, Fuel/Hydraulics

BHT-407-MMS-6, February 22, 1996

Auxiliary Fuel Tank Kit Operation and Maintenance

PUBLICATIONS AFFECTED:

BHT-407-IPB, Reissue – May 18, 1999

Chapter 28, Fuel

ACCOMPLISHMENT INSTRUCTIONS:

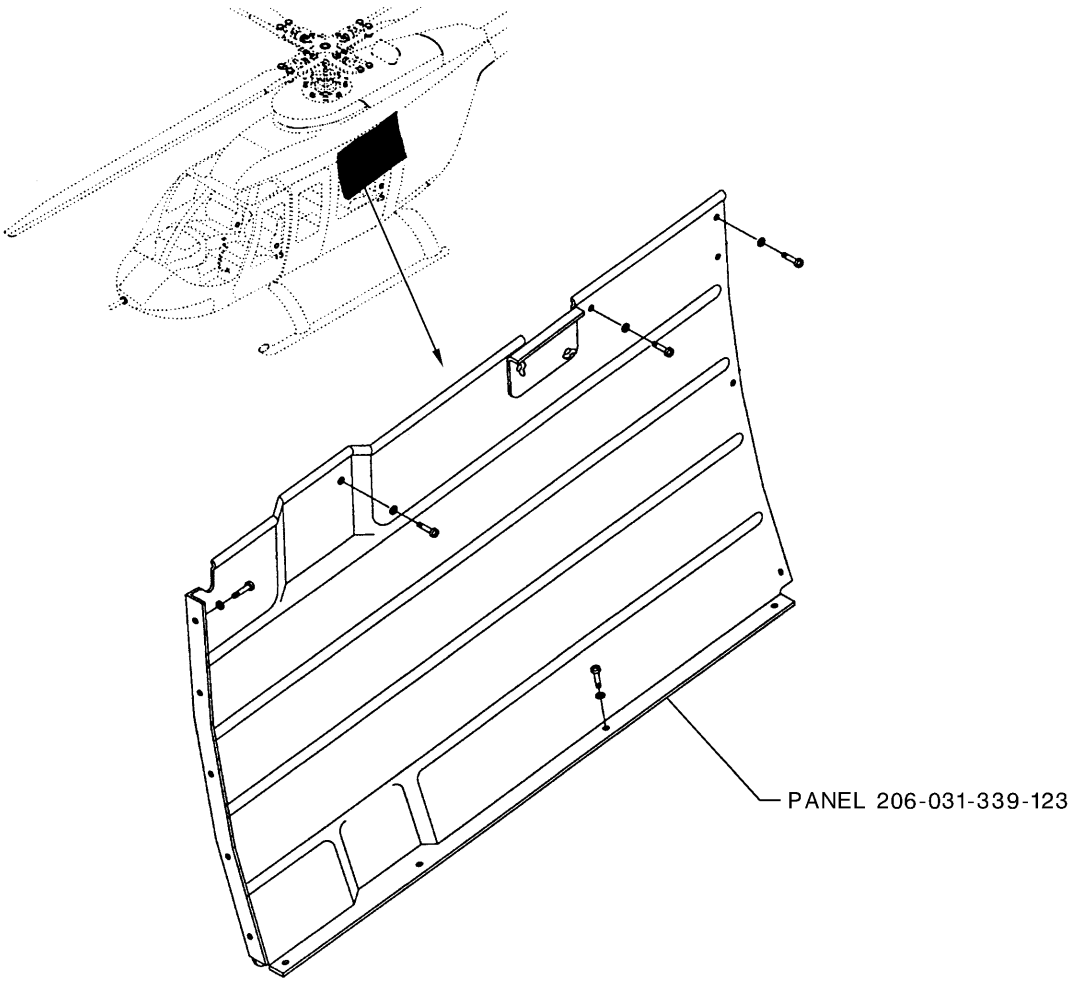
1. Get access to the interior of the baggage compartment.

- NOTE -

Keep all hardware removed for later installation.

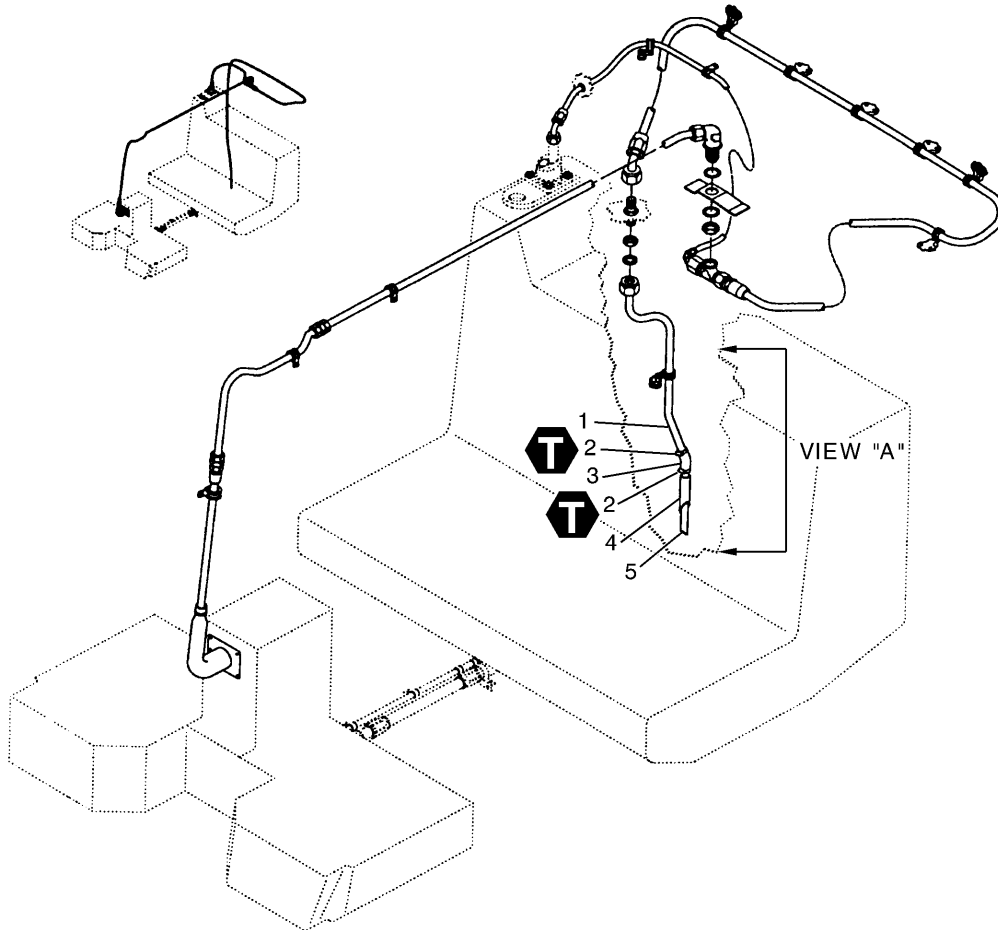
2. If installed, remove the Auxiliary Fuel Tank Kit. Refer to BHT-407-MMS-6, paragraph 28-7.
3. Remove the interior baggage compartment bulkhead closeout panel (1). Refer to Figure 1.

4. Remove the two hose clamps (2) that hold the flexible fuel vent hose (3). Refer to Figure 2, sheets 1 and 2.
5. Remove the flexible fuel vent hose (3).
6. Install the new flexible fuel vent hose (3).
7. Install the two hose clamps (2), removed in step 4, to secure the new flexible fuel vent hose to the fuel vent hose (5) and fuel vent tube (1). Torque the hose clamps (2) to 15-25 in-lbs.
8. If removed in step 2, install the Auxiliary Fuel Tank Kit. Refer to BHT-407-MMS-6, paragraph 28-11. Make sure the fuel system is free of leaks after installation.
9. Use the hardware removed in step 3 to install the interior baggage compartment bulkhead closeout panel (1).
10. Make an entry in the aircraft technical records to show that this Alert Service Bulletin is completed.
11. Make an entry in the Record of Alert Service Bulletins in the Maintenance Manual.
12. Prepare aircraft for return to service.



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Figure 1. Baggage Compartment Closeout

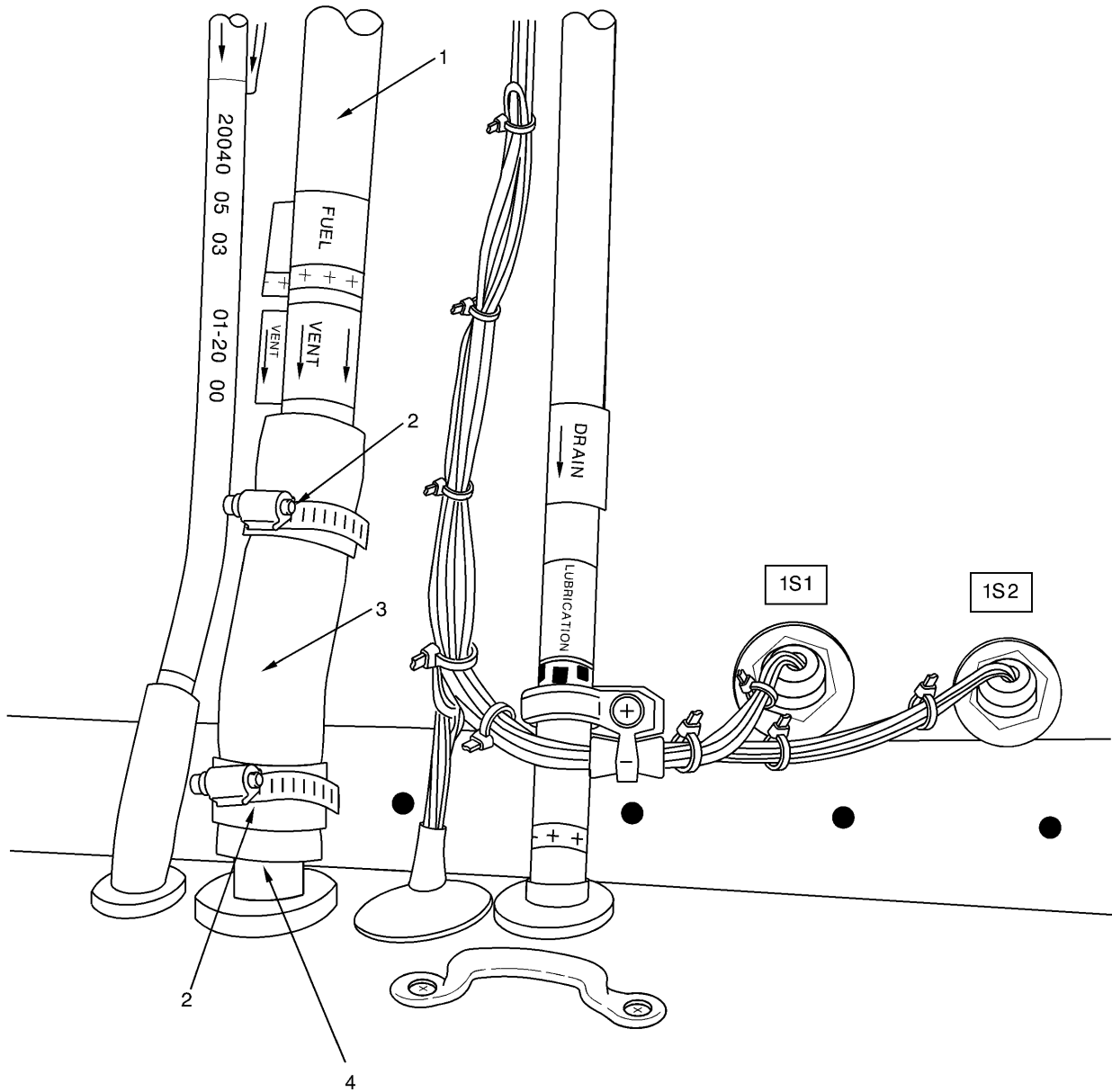


LEGEND

- 1. Tube (407-062-004-101)
- 2. Hose clamp (AN737TW38)
- 3. Rubber tube remove (110-107-32A-035)
install (BEL103206001404)
- 4. Hose (206-062-663-001)
- 5. Composite tube (407-062-013-101)

T 15 TO 25 IN-LBS
(1 TO 3 Nm)

Figure 2. Fuel Vent System (Sheet 1 of 2)



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Figure 2. View A – Fuel Vent System (Sheet 2)