MODELS AFFECTED: 407

SUBJECT: **ENGINE FAIRING, RH DOOR HINGE AND HOLD-OPEN MECHANISM – MODIFICATION OF.**

HELICOPTERS AFFECTED: 407 helicopters, S/N 53000 through 53330 and 53332 through 53345.

[Helicopters S/N 53331, 53346 and subsequent will have the intent of this Alert Service Bulletin completed before delivery.]

COMPLIANCE: At the next 300 hr inspection but no later than 31 March 1999.

DESCRIPTION:

Bell Helicopter has found that the engine access door hinge and hold-open mechanism can possibly touch and cause damage to the fuel line on the airframe fuel filter.

This bulletin gives the instructions to re-route the fuel line and change the bracket for the hold-open mechanism on the door.

APPROVAL:

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

MANPOWER:

Approximately 0.5 man-hour is necessary to complete this bulletin. The man-hours are based on hands-on time and can change with the personnel and the available facilities.

WARRANTY:

Owner/operators of 407 helicopters who comply with the instructions outlined in this bulletin are eligible for a special $60.00 USD warranty credit toward the labor required to incorporate this bulletin.

To receive this credit:

- Comply with the instructions outlined in this bulletin no later than 28 February 1999.

- Send a completed Malfunction Report (MR) to BHT Warranty Administration.

NOTE: Customers who fail to comply with the instruction in this bulletin after 28 February 1999 are **not** eligible for the special warranty credit provisions listed above.

MATERIAL:

Not necessary.

SPECIAL TOOLS:

Not necessary.

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

BHT-407-MM-5, 16 December 1996

Chapter 53, Fuselage (For cowling removal and installation).

PUBLICATIONS AFFECTED:

BHT-407-MM-5, Chapter 53.

ACCOMPLISHMENT INSTRUCTIONS:

1. Remove the engine cowling (refer to BHT-407-MM-5, Chapter 53).

2. Use the supplied pattern (Figure 1) to transfer the new shape to the installed bracket.

3. Use aviation sheet-metal cutters, and cut the bracket as shown in Figure 1. Polish all sharp edges with a file or rotary grinder.

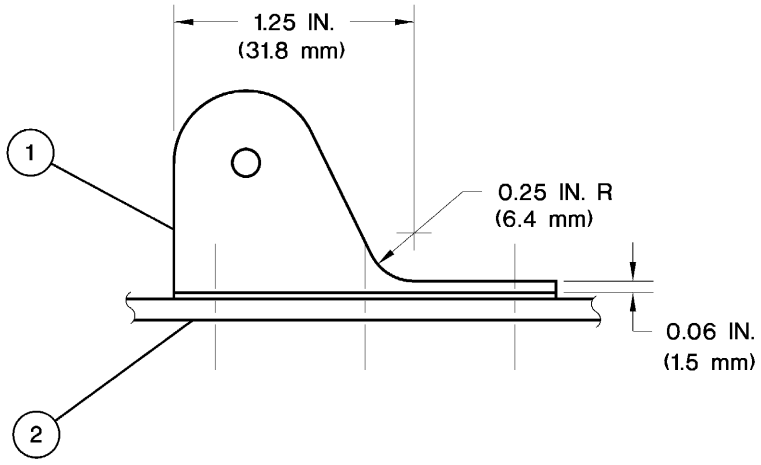
4. Install the engine cowling, that was removed in Step 1, on the helicopter (refer to BHT-407-MM-5, Chapter 53).

5. Change the location of the hinge pins for the hold-open mechanism on the right side only as shown on Figure 2.

6. Make sure that the fuel line (2, Figure 3) on the fuel filter assembly (1) is in the position shown (45° typical). If the line is not in the correct position, adjust the line.

7. Make an entry in the helicopter historical records to show that this Alert Service Bulletin has been completed.

8. Make an entry in the record of Alert Service Bulletin in the Maintenance Manual.



PATTERN, SCALE: 1 = 1
VIEW LOOKING AFT
RH SIDE
(ROTATED CCW)

LEGEND

1. Bracket (407-064-806)
2. Engine cowling (Ref.)

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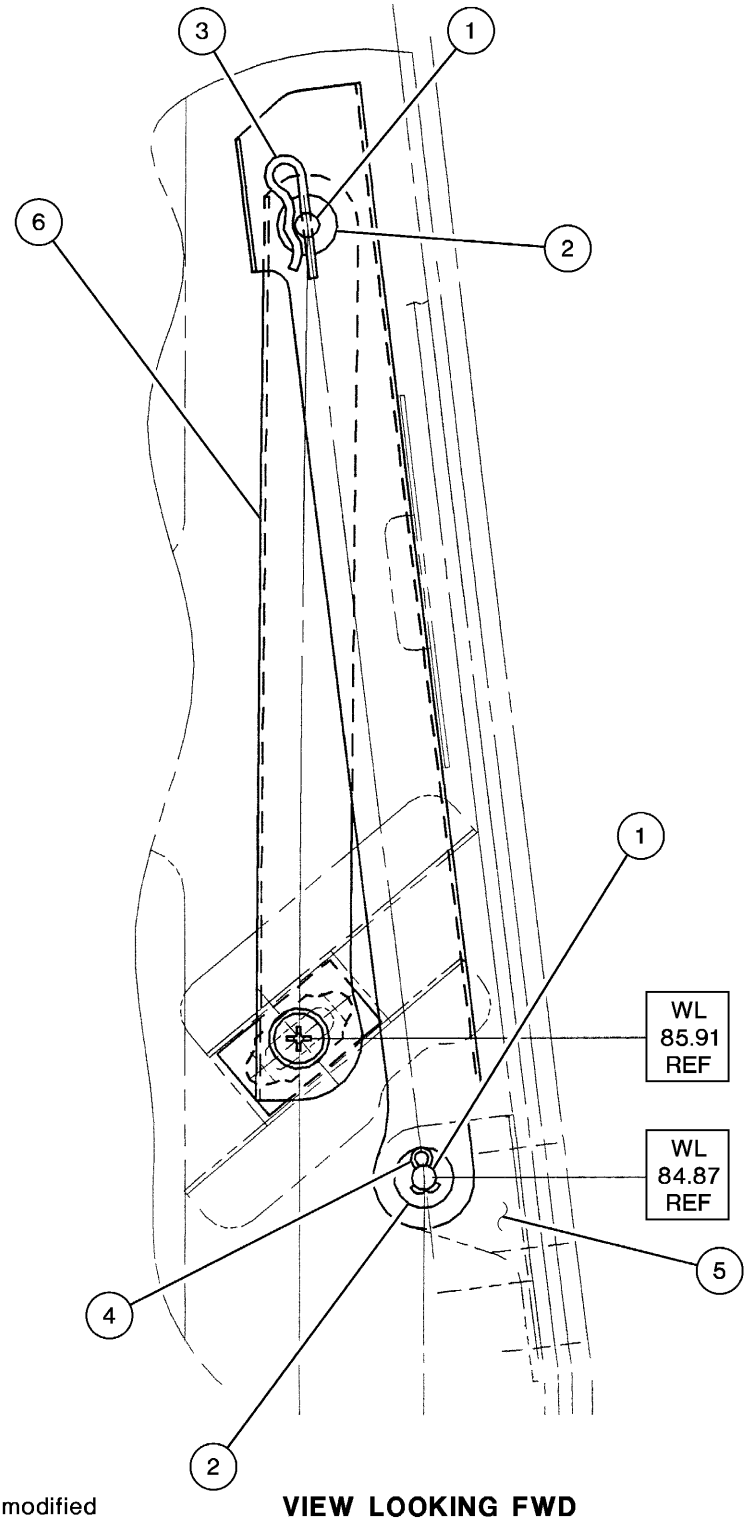
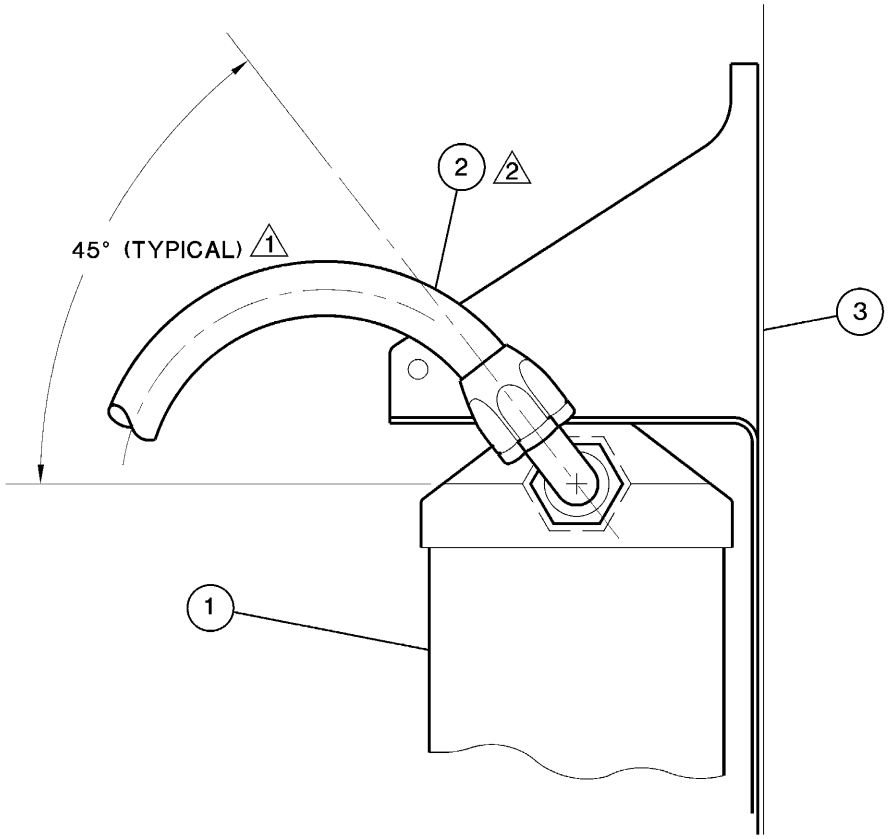
Figure 1. Modification of Bracket



LEGEND

1. Pin (MS20392-2P13)
2. Washer (NAS1149C0332R)
3. Pin (AN415-4)
4. Pin, cotter (MS24665-151)
5. Bracket (407-064-806-154), modified
6. Support assembly (Ref.)

Figure 2. Change Installation of Hinge Pins



**VIEW LOOKING INBOARD
RH SIDE**

LEGEND

1. Fuel filter assembly (Ref.)
2. Fuel line to HMU (Ref.)
3. Engine firewall (Ref.)

NOTES

1. Adjust the angular orientation of the hose elbow to get maximum clearance between hose assembly and 407-064-806 cowling assembly. Ensure minimum clearance of 0.25 IN. (6.4 mm).
2. Make sure there is a minimum bend radius of 2.0 IN. (50.8 mm)

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Figure 3. Correct Orientation of Fuel Hose