A Textron Company

ALERT SERVICE BULLETIN **505-25-49**

20 October 2025

MODEL AFFECTED: **505**

SUBJECT: **TRANSMISSION TO FREEWHEEL OIL PRESSURE HOSE INSTALLATION, ONE-TIME INSPECTION AND MODIFICATION OF.**

HELICOPTERS AFFECTED: **Serial numbers 65011 through 65512, 65514 through 65616, 65618 through 65645, 65647, 65649, 65652 through 65663, 65665, 65666, 65667, and 65675 through 65685.**

[Serial number 65513, 65617, 65646, 65648, 65650, 65651, 65664, 65668 through 65674, 65686 through 65713, and 65714 and subsequent are not affected by **PART I** of this bulletin and will have the intent of **PART II** of this bulletin accomplished prior to delivery.]

COMPLIANCE: **PART I** – Within 25 flight hours following the release date of this bulletin.

PART II – Prior to next flight as required by **PART I**, or within 330 flight hours or 12 months following accomplishment of **PART I**.

DESCRIPTION:

Bell has become aware of a potential fouling condition between the transmission to freewheel oil pressure hose and the forward left engine bipod where the hose is clamped (Figure 1). This Alert Service Bulletin (ASB) provides instructions for a one-time inspection of the installation and a modification of the clamping arrangement to prevent any future fouling conditions.

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 Transport Canada Civil Aviation (TCCA) approved.

CONTACT INFO:

For any questions regarding this bulletin, please contact:

Bell Product Support Engineering
Tel: 1-450-437-2862 / 1-800-363-8023 / productsupport@bellflight.com

MANPOWER:

Approximately 0.5 man-hour is required to complete **PART I** of this bulletin.
Approximately 1.0 man-hour is required to complete **PART II** of 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:
The following material is required for the accomplishment of this bulletin and may be obtained through your Bell Supply Center.

Part Number	Nomenclature	Qty (Note)
70-079E000Y184	HOSE ASSEMBLY	1 (1)
SLS-060-105-001	FWD LEFT BIPOD	1 (1)

NOTE 1: Only required if damage limits are exceeded following completion of the inspection in **PART I** of this bulletin.

Consumable Material:

None required.

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

505-MM, Maintenance Manual, Chapter 63 and 71.

PUBLICATIONS AFFECTED:

505-IPC, Illustrated Parts Catalogue, Chapter 63.
505-MM, Maintenance Manual, Chapter 63.

ACCOMPLISHMENT INSTRUCTIONS:

PART I – One-time inspection of transmission to freewheel oil pressure hose and forward left bipod assembly.

1. Prepare the helicopter for maintenance.

2. Remove the aft engine cowling (443AT) (DMC-505-A-71-10-02-00A-520A-A).

3. Inspect freewheel oil pressure hose (5, Figure 2) for possible fouling with forward left bipod (7).

   a. If no fouling exists, go to step 4. Perform **PART II** of this bulletin within the stated **COMPLIANCE** period.

   b. If fouling exists, inspect oil pressure hose (5) and forward left bipod (7) for damage.

      (1) If there is no damage go to step 4. Perform **PART II** of this bulletin within the stated **COMPLIANCE** period.

      (2) If there is damage, report findings to Product Support Engineering at productsupport@bellflight.com. Once a disposition has been provided and appropriate maintenance actions are accomplished, continue with the steps below.

         (a) Include helicopter serial number in the subject line of the email.

         (b) Include the ASB number 505-25-49 in the subject line of the email.

(c) Provide total time in service of the helicopter.

(3) Perform **PART II** of this bulletin prior to next flight.

4. Install the aft engine cowling (443AT) (DMC-505-A-71-10-02-00A-720A-A).

5. Make an entry in the helicopter logbook indicating compliance with **PART I** of this Alert Service Bulletin.

PART II – Modification of clamping arrangement between transmission to freewheel oil pressure hose and forward left bipod assembly.

1. Prepare the helicopter for maintenance.

2. If not already accomplished, remove the aft engine cowling (443AT) (DMC-505-A-71-10-02-00A-520A-A).

3. Remove the existing clamp (6, Figure 2) from forward left bipod (7) by removing nut (1), washers (2), and screw (3).

-NOTE-

Adjustment of the angle of elbow fitting (8) may be required to allow proper installation of the transmission to freewheel oil pressure hose (5). If required, loosen nut (9) to allow movement of the elbow fitting (8) and positioning of the hose (5). When clamps (4 and 6) are fully installed, torque nut (9) 30 to 45 inch-pounds (3.4 to 5.1 Nm).

4. Install clamp (6) in the new orientation on the forward left bipod (7). Install clamp (4) to clamp (6) using screw (3), washers (2) and nut (1). Torque nut (1) 35 to 45 inch-pounds (3.8 to 5.1 Nm) plus 2 to 18 inch-pounds (0.22 to 2.03 Nm) of tare torque.

   a. Ensure there is a minimum clearance of 1/16 inch (1.6 mm) between the transmission to freewheel oil pressure hose (5) and the forward left bipod (7). Adjust as necessary.

5. Install the aft engine cowling (443AT) (DMC-505-A-71-10-02-00A-720A-A).

6. Make an entry in the helicopter logbook indicating compliance with **PART II** of this Alert Service Bulletin.

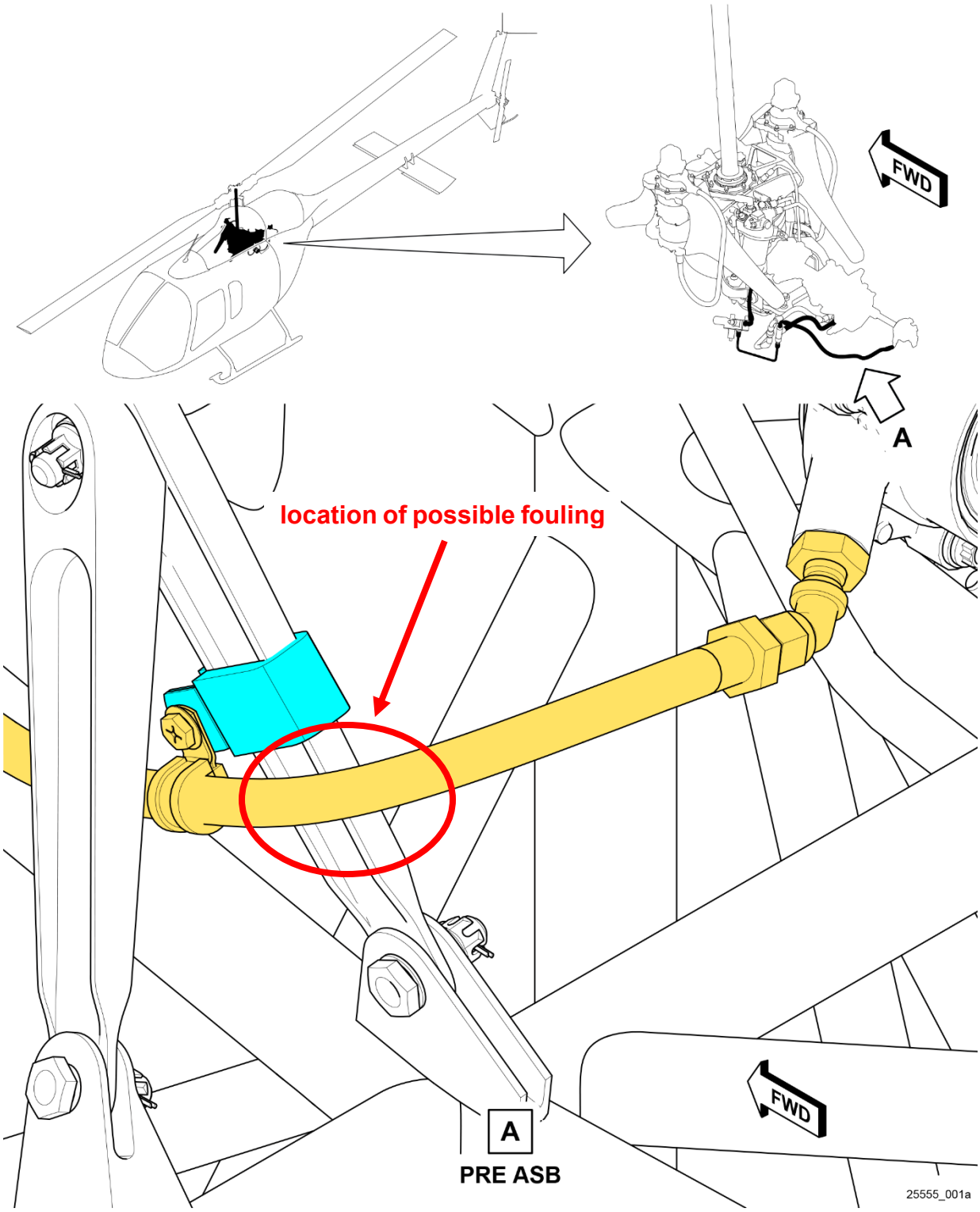
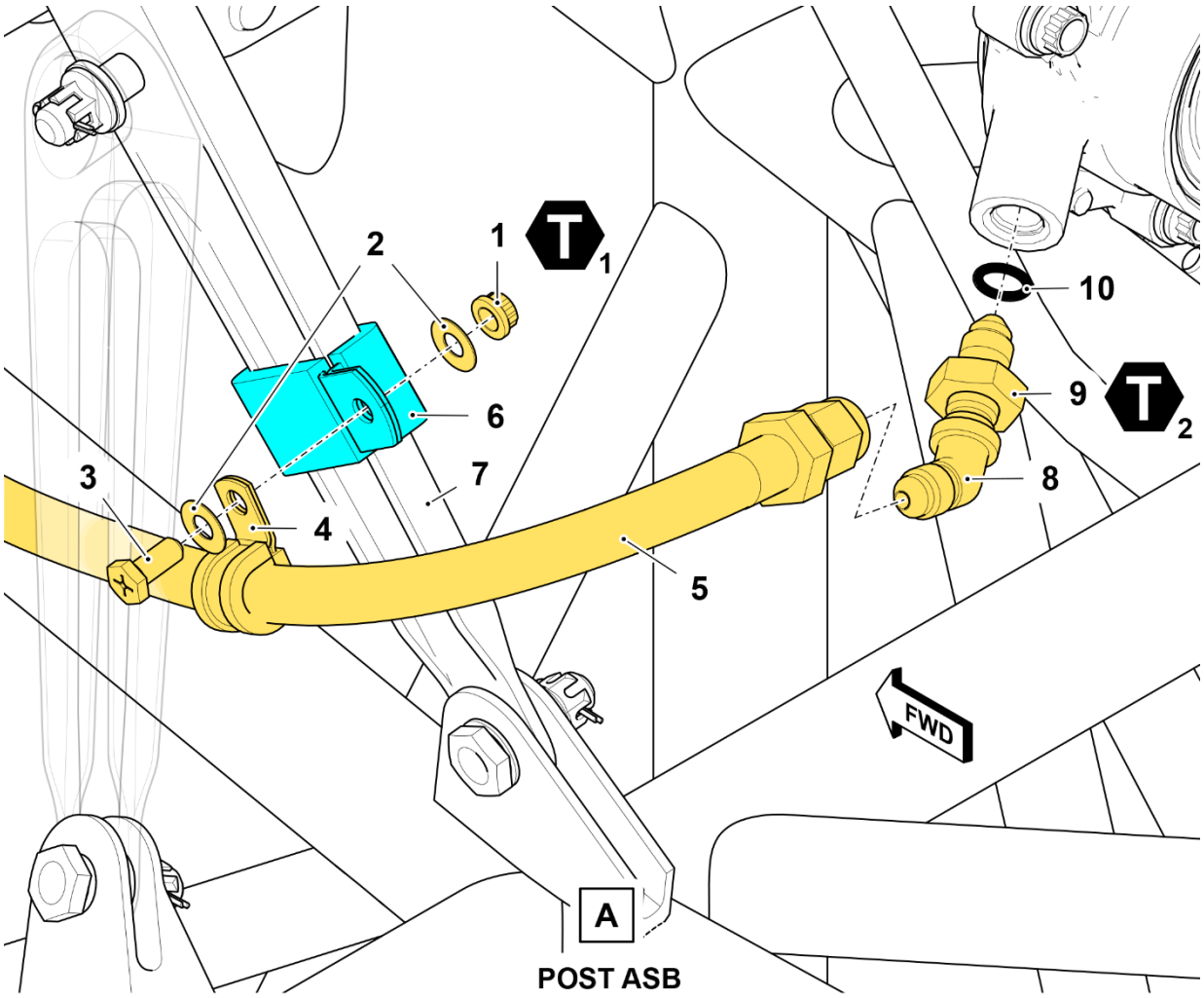


Figure 1 – Current Transmission to Freewheel Oil Pressure Hose Installation (PRE ASB)



T1 35 TO 45 IN-LBS (3.8 TO 5.1 Nm)
plus 2 TO 18 IN-LBS (0.2 TO 2.0 Nm) of tare torque

T2 35 TO 45 IN-LBS
(3.8 TO 5.1 Nm)

1. Nut (NAS9926-3L)
2. Washer (NAS1149C0316R)
3. Screw (NAS1802-3-7)
4. Clamp (30-306J06)
5. Hose assembly (70-079E000Y184)
6. Clamp (30-302-2C05J16)
7. Forward left bipod (SLS-060-105-001)
8. Elbow fitting (AS1040W0303)
9. Nut (AS5178W03)
10. Packing (AS3208-03)

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Figure 2 – Modification of Transmission to Freewheel Oil Pressure Hose and Forward Left Bipod Installation (POST ASB)