

**ALERT SERVICE BULLETIN**



A Textron Company

**NO.** 427-08-22

**DATE** June 26, 2008

**PAGE** 1 of 5

<b>DATE</b>
<b>REV</b>

**MODEL AFFECTED:** 427

**SUBJECT:** HYDRAULIC PUMP DRIVESHAFT ASSEMBLY  
P/N 406-040-072-105, ONE TIME INSPECTION OF

**HELICOPTERS AFFECTED:** 427 Helicopters serial number 56001 through 56046 and 58001 and 58002.

[427 Helicopters serial number 56047 and subsequent and 58003 and subsequent will have the intent of this bulletin accomplished]

[427 Helicopters serial number 56001 through 56046 and 58001 and 58002 having complied with TB 427-05-19 have the intent of this bulletin accomplished]

**COMPLIANCE:** At the next scheduled inspection but no later than August 31, 2008.

**DESCRIPTION:**

Bell Helicopter has received reports of hydraulic pump driveshaft assemblies P/N 406-040-072-105 that may have been delivered with missing internal plug or fastening rivet. This condition could lead to a loss of hydraulic pressure.

This bulletin provides instructions for a one time inspection to verify the presence of the plug installed in the center of the driveshaft and the rivet which holds the plug in place.

**APPROVAL:**

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

**MANPOWER:**

Approximately 1.5 man-hour are required to complete this bulletin if completed during the hydraulic oil pump shaft servicing. 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 detailed in the accomplishment instructions of this Bulletin will be eligible for special warranty consideration.

To receive this warranty comply with the instructions detailed in TB 427-05-19 which introduces the new shaft 407-340-107-101 and adaptor 407-340-108-101; order the parts listed in the materials section of the TB 427-05-19 from a Bell approved source and file a VISTA warranty claim referencing this ASB.

NOTE: This warranty will only be applicable to those shafts that are identified defective with the missing plug and or rivet as detailed in this ASB 427-08-22. BHT will require the defective shafts to be returned to warranty for verification of missing parts through the normal Warranty/CPR process. There will be no warranty coverage for normal in-service wear.

Customers who fail to comply with the instructions in this Bulletin after the 30th September 2008 are not eligible for the special warranty exceptions listed above. No other labor cost will be covered under 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.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Quantity</u>
406-376-001-101	GASKET	1
407-340-107-101	INPUT ADAPTER	1
407-340-108-101	ADAPTER	1
407-340-109-101	RETAINING RING	1
67588	SPRING	1
25399	RETAINER RING	1

**SPECIAL TOOLS:**

None required

**WEIGHT AND BALANCE:**

Not affected

**ELECTRICAL LOAD DATA:**

Not affected

**REFERENCES:**

BHT-427-IPB, Chapter 29  
BHT-427-MM, Chapter 29  
Technical Bulletin 427-05-19

**PUBLICATIONS AFFECTED:**

None affected

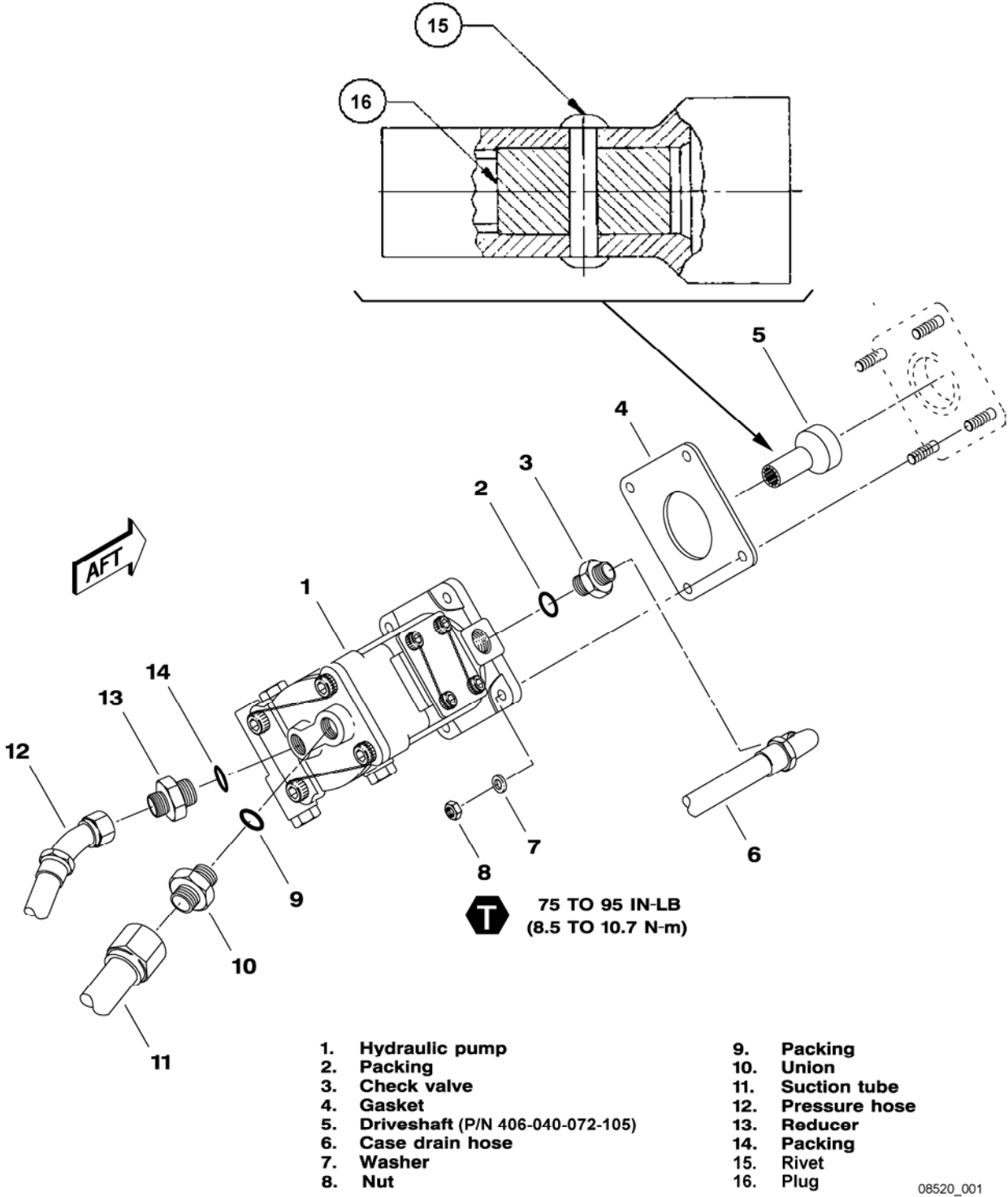
**ACCOMPLISHMENT INSTRUCTIONS:**

1. Gain access to the hydraulic pump P/N 206-076-030-ALL. Refer to the BHT-427-MM, chapter 29.
2. Remove hydraulic pump and driveshaft assembly P/N 406-040-072-105. Refer to figure 1 and to BHT-427-MM, Chapter 29.
3. Inspect hydraulic pump driveshaft assembly (item 5) for condition and missing rivet (item 15) or plug (item 16). Refer to figure 1 and BHT-427-MM, Chapter 29.

-NOTE-

Bell Helicopter has issued Technical Bulletin 427-05-19 introducing a new hydraulic pump driveshaft assy to prevent excessive spline wear and potential loss of hydraulic pressure. If the driveshaft assembly P/N 406-040-072-105 requires replacement comply with Technical Bulletin 427-05-19 in conjunction with this bulletin.

4. If rivet (item 15) or plug (item 16) are missing proceed as follow:
  - a. Submit a completed MMIR to BHTI Warranty Department.
  - b. Obtain parts listed in the material section of this bulletin and comply with Technical Bulletin 427-05-19.
5. If shaft condition is beyond inspection limitations comply with TB 427-05-19.
6. For hydraulic pump driveshaft assembly 406-040-072-105 in spares stock proceed as follow:
  - a. Inspect hydraulic pump driveshaft assembly (item 5) for missing rivet (item 15) or plug (item 16). Refer to figure 1.
  - b. If rivet (item 15) or plug (item 16) are missing. Submit a completed MMIR to BHTI Warranty Department and order parts listed in the Material section of this bulletin.
  - c. If rivet (2) or plug (3) are not missing, attach a serviceable tag to the hydraulic pump driveshaft assembly (1) and write "THIS HYDRAULIC PUMP DRIVESHAFT ASSEMBLY COMPLIES WITH ASB 427-08-22".
7. Make an entry in the helicopter records to indicate that this bulletin has been accomplished.



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**Figure 1**  
**Hydraulic pump driveshaft assembly**