

**ALERT SERVICE BULLETIN**



A Textron Company

**NO.** 407-08-83

**DATE** May 22, 2008

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

**MODEL AFFECTED:** 407

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

**HELICOPTERS AFFECTED:** 407 Helicopters serial number 53000 through 53408 and 53421 through 53459.

[407 Helicopters serial number 53000 through 53408 and 53421 through 53459 complying with TB 407-01-30 and 53409 through 53420 and 53460 through subsequent are not affected by this bulletin]

**COMPLIANCE:** PART I: For driveshaft assembly in spares stock, immediately after receipt of this bulletin.

PART II: For driveshaft assembly installed on helicopter, at the next driveshaft lubrication but no later than 50 hours or 30 days which ever comes first after receipt of this bulletin.

**DESCRIPTION:**

Bell Helicopter has received reports of hydraulic pump driveshaft assemblies 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 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 1.0 man-hour is necessary to accomplish Part II of 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 parts I, & part II of this Bulletin will be eligible for special warranty consideration.

To receive this warranty comply with the instructions detailed in TB 407-01-30 Rev A 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 407-01-30 Rev A 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 407-08-83. 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 may be required for the accomplishment of this bulletin and can 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-407-IPB, Chapter 29  
BHT-407-MM-4, Chapter 29

**PUBLICATIONS AFFECTED:**

None affected

**ACCOMPLISHMENT INSTRUCTIONS:****PART I: For hydraulic pump driveshaft assembly 406-040-072-105 in spares stock**

1. Inspect hydraulic pump driveshaft assembly (1, Figure 1) for missing rivet (2) or plug (3).
2. If rivet (2) or plug (3) is missing, submit a completed MMIR to BHTI Warranty Department and order parts listed in the MATERIAL section of this bulletin.
3. If rivet (2) or plug (3) is not missing, attach a serviceable tag to the hydraulic pump driveshaft assembly (1) and write "THIS HYDRAULIC PUMP DRIVSHAFT ASSEMBLY COMPLIES WITH ASB 407-08-83".

**PART II: For hydraulic pump driveshaft assembly 406-040-072-105 installed on helicopter**

1. Remove hydraulic pump driveshaft assembly (1, Figure 1). Refer to BHT-407-MM-4, Chapter 29.
2. Inspect hydraulic pump driveshaft assembly (1) for condition and missing rivet (2) or plug (3). Refer to figure 1 and BHT-407-MM, Chapter 29.

**-NOTE-**

Bell Helicopter has issued TB 407-01-30 rev A introducing a new hydraulic pump driveshaft assembly 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 TB 407-01-30 rev A in conjunction with this bulletin.

3. If rivet (2) or plug (3) 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 TB 407-01-30 Rev A.
4. Make an entry in the helicopter records to indicate that this bulletin has been accomplished.

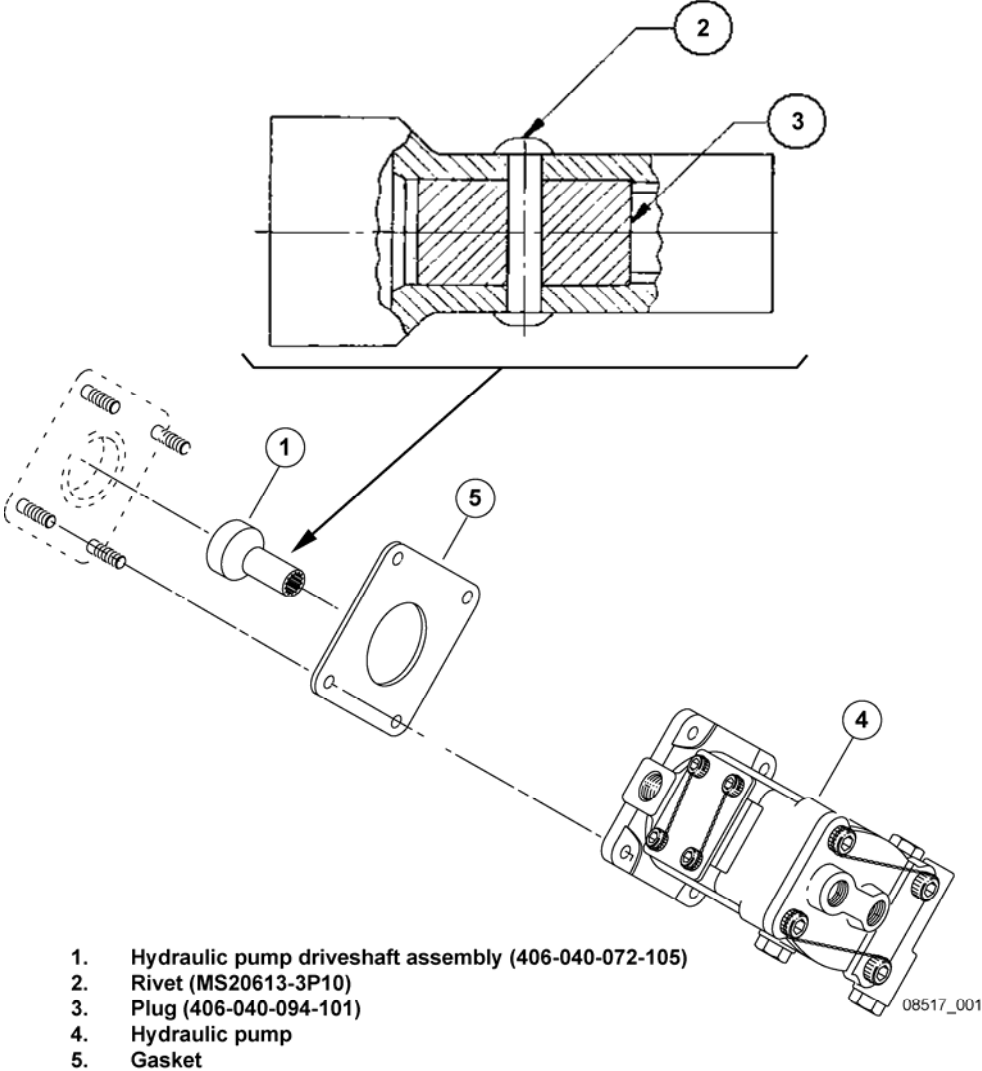


Figure 1. Hydraulic pump driveshaft assembly