

REVISION NOTICE
Bell Helicopter **TEXTRON**
A Subsidiary of Textron Inc.

DATE Mar 31, 2006

TO: **All Owners/Operators of Bell 427 Helicopters**

SUBJECT: **REVISION "A" TO ALERT SERVICE BULLETIN 427-01-04:
ENGINE-TO-TRANSMISSION DRIVESHAFT 206-340-300-105,
INSPECTION OF.**

Revision "A" to this bulletin is issued to advise operator that Bell Helicopter has approved spare driveshaft assy P/N 206-340-300-105M for use on all model 427 helicopters.

AN APPROPRIATE ENTRY SHOULD BE MADE IN THE AIRCRAFT LOGBOOK UPON ACCOMPLISHMENT
IF OWNERSHIP OF AIRCRAFT HAS CHANGED PLEASE FORWARD TO NEW OWNER

ALERT SERVICE BULLETIN
Bell Helicopter **TEXTRON**

A Subsidiary of Textron Inc.

NO. 427-01-04

DATE Oct 12, 2001

PAGE 1 of 5

DATE Mar 31, 2006

REV A

MODEL AFFECTED: 427

SUBJECT: ENGINE-TO-TRANSMISSION DRIVESHAFT 206-340-300-105, INSPECTION OF.

HELICOPTERS AFFECTED: Model 427 helicopters serial number 56001 and subsequent and 58001 and subsequent.

COMPLIANCE: Part I

-NOTE-

Driveshaft assembly P/N 206-340-300-105 with suffix "M" is not affected by the compliance section of this bulletin.

A

Within the next 50 hours or before November 12, 2001, whichever comes first, inspect the engine to transmission driveshaft P/N 206-340-300-105 Historical Service Record to determine if it was ever installed on a BHT model 407 helicopter. If the driveshaft was ever installed on a 407 helicopter perform **part II** of this alert service bulletin.

Part II

-NOTE-

Driveshaft assembly P/N 206-340-300-105 with suffix "M" is not affected by the compliance section of this bulletin.

A

If the P/N 206-340-300-105 driveshaft was operated on a model 407 helicopter, for any length of time, perform the following which applies:

Remove from service driveshaft P/N 206-340-300-105 that has more than 2500 flight-hours since new within 50 flight-hours or before November 12, 2001, whichever comes first.

Remove from service driveshaft P/N 206-340-300-105 that has accumulated between 1500 and 2500 flight-hours since new within 100 flight-hours or before December 12, 2001, whichever comes first.

Remove from service driveshaft P/N 206-340-300-105 that has accumulated between 1250 and 1500 flight-hours since new within 150 flight-hours or before January 15, 2002, whichever comes first.

Remove from service drive shaft P/N 206-340-300-105 that has accumulated less than 1250 flight hours since new before it accumulates 1250 flight hours.

DESCRIPTION:

Investigation by Bell Helicopter of the model 407 engine-to-transmission driveshaft assembly has revealed that wear at the flex frame bolted joint may result in loss of clamp-up and contribute to a crack initiation point.

This Alert Service Bulletin is issued to identify any drive shaft assembly P/N 206-340-300-105 that was ever operated on a Bell 407.

Any driveshaft assembly P/N 206-340-300-105 that has ever been operated on a model 407 must be removed from service in accordance with this bulletin, overhauled and reidentified as 206-340-300-107.

Bell Helicopter has approved spare driveshaft assy P/N 206-340-300-105M for use on all model 427. The -105M driveshaft is a P/N 206-340-300-107 overhauled to the equivalent of P/N 206-340-300-105 driveshaft configuration.

The P/N 206-340-300-107 driveshaft assembly can only be operated on the model 407.

A

Any P/N 206-340-300-105 driveshaft that has been operated exclusively on the Bell 206L-4 or Bell 427 is not affected by this bulletin.

Bell Helicopter has approved spare driveshaft assy P/N 206-340-300-105M for use on all model 427. The -105M driveshaft is a P/N 206-340-300-107 overhauled to the equivalent of P/N 206-340-300-105 driveshaft configuration.

APPROVAL:

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

A

MANPOWER:

Approximately 0.25 man-hours are required to complete part I of this bulletin. Approximately 2 man-hours are required to complete part II of this bulletin. Man-hours are based on hands-on time, and may vary with personnel and facilities available.

WARRANTY:

Warranty does not apply to this bulletin.

A

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> |
|--------------------------|---------------------|----------------------|
| 206-340-300-105 (Note 2) | Driveshaft | As required (Note 1) |

Note 1

Quantity to be determined by completing accomplishment Instructions described in Part 1.

Note 2

Driveshaft assembly 206-340-300-105M can be used as an alternate to driveshaft 206-340-300-105.

A

SPECIAL TOOLS:

407-240-009-101 Driveshaft tool set

WEIGHT AND BALANCE:

Not affected

ELECTRICAL LOAD DATA:

Not affected

REFERENCES:

BHT-427-IPB Illustrated Parts Breakdown
BHT-427-MM Maintenance Manual

PUBLICATIONS AFFECTED:

BHT-427 -IPB Illustrated Parts Breakdown
BHT-427-MM Maintenance Manual

ACCOMPLISHMENT INSTRUCTIONS:

PART I

1. Examine the engine – to – transmission driveshaft Historical Service Record to determine if the driveshaft was ever operated on the model 407.
2. If it is determined that the driveshaft was never operated on a 407 model no action is required by this ASB.
3. If it is determined that the driveshaft was operated on a 407 model, for any length of time, Part II of this ASB must be complied with.

PART II

1. Remove the engine-to-transmission driveshaft. Refer to BHT-427-MM, Chapter 63.

2. When returning the driveshaft to Bell Helicopter for overhaul Include the following information:
 - a. Engine-to-transmission driveshaft Total Time Since New to include the history of installations/removals and installation on other helicopters, if applicable.
 - b. With a tag, identify the transmission end of drive shaft if possible.
3. Return the removed engine-to-transmission driveshaft to Bell Helicopter Textron at the following address:

**Bell Helicopter Textron Inc.
Customer Property Return (CPR)
776 Henrietta Creek Rd
Roanoke, TX 76262**

4. Install 206-340-300-105 engine-to-transmission driveshaft. Refer to BHT-427MM Chapter 63, to install the engine-to-transmission driveshaft.
5. Make an entry in the aircraft permanent records to indicate compliance with the applicable parts of this bulletin.

A