

**TECHNICAL BULLETIN**  
**Bell Helicopter** **TEXTRON**

A Subsidiary of Textron Inc.

No. 407-02-37

Date 01-07-02

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DATE
REV

**MODEL AFFECTED:** 407

**SUBJECT:** TRANSMISSION 407-040-006-ALL INPUT SEAL HOUSING, INSTALLATION PROCEDURE

**HELICOPTERS AFFECTED:** Model 407 Helicopters

**COMPLIANCE:** At Customer's Option

**DESCRIPTION:**

Bell Helicopter has received reports of possible loss of pinch on transmission input bearings which could result in damaging the transmission case triplex bearing liner.

This Technical Bulletin introduces a change to the shimming dimensions and eliminates the use of sealant on the mating surfaces of the input seal housing and the transmission case.

**MANPOWER:**

No additional man-hours are required if this Bulletin is accomplished when the input seal housing is removed for any reason.

**MATERIALS:**

**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>
400-040-083-101	Shim	1

**SPECIAL TOOLS:**

None required

**WEIGHT AND BALANCE:**

Not Affected

**ELECTRICAL LOAD DATA:**

Not Affected

**REFERENCES:**

BHT-407-MM-6, Rev 12, 8 May 2001

Chapter 63, Main Rotor Drive

BHT-407-CR&O, Rev. 1, 15 December 1997

Chapter 63-20, Drive System Transmission

**PUBLICATIONS AFFECTED:**

BHT-407-MM-6, Rev 12, 8 May 2001

Chapter 63, Main Rotor Drive

BHT-407-CR&O, Rev. 1, 15 December 1997

Chapter 63-20, Drive System Transmission

**ACCOMPLISHMENT INSTRUCTIONS:**

1. During the installation of the Transmission Input Housing, follow the procedures in the BHT-407-MM-1, Chapter 63 or BHT-407-CR&O, Chapter 63, with the following changes:
  - a. Adjust the p/n 400-040-083-101 Shim to obtain a 0.003 to 0.006 inch pinch on the input triplex bearing.
  - b. Omit the application of sealing compound (C-328) between the mating surfaces of the Shim, Housing and Gearbox Assembly.
2. Make an entry in the Transmission Historical Service Record to show that this Technical Bulletin has been completed.