

# **Bell Helicopter** **TEXTRON**

A Subsidiary of Textron, Inc.

Apr. 05, 2005

**TO: All Owners/Operators of Bell 206L Series Helicopters**

**SUBJECT: REVISION "A" TO TECHNICAL BULLETIN 206-99-196:  
TRANSMISSION INPUT ADAPTER MODIFICATION AND  
PACKING A10710.V720, INTRODUCTION OF.**

Revision "A" to this bulletin has been released to :

- Introduce the superseding packing part number for the 206L series transmission input adapter.
- Clarify the input adapter modification.

# TECHNICAL BULLETIN

## Bell Helicopter **TEXTRON**

A Subsidiary of Textron Inc.

No. 206L-99-196

Date 05-17-99

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DATE Apr. 05, 2005
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REV A
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**MODEL AFFECTED:** 206L Series

**SUBJECT:** TRANSMISSION INPUT ADAPTER MODIFICATION AND PACKING A10710.V720, INTRODUCTION OF.

**HELICOPTERS AFFECTED:** 206L, Serial Numbers 45004 through 45153 and 46601 through 46617.  
 206L1, Serial Numbers 45154 through 45790.  
 206L3, Serial Numbers 51001 through 51612.  
 206L4, Serial Numbers 52001 through subsequent.

**COMPLIANCE:** At the option of the customer.

**DESCRIPTION:**

Bell Helicopter has received a number of reports from operators concerning improper fitting packings and oil leaks emanating from the transmission input adapter. Some of the packings were reported to fit loose on the input pinion. This technical bulletin introduces a new packing A10710.V720 to replace packing A9854.16347.

Packing A10710.V720 also replaces the previous A09854.V720, L1523 series and L-1523 series packings.

This bulletin also gives instructions for the addition of a chamfer to input adapters, 206-040-048 and 406-040-070.

**APPROVAL:**

The engineering design aspects of this bulletin are Transport Canada Approved.

**MANPOWER:**

No additional manpower is required when you accomplish this Bulletin during the overhaul or replacement of the transmission input seal.

**MATERIAL:**

<u>PART NUMBER</u>	<u>NOMEMCLATURE</u>	<u>QUANTITY</u>
A10710.V720	PACKING	1

**Consumable Material:**

<u>PART NUMBER</u>	<u>NOMENCLATURE</u>	<u>REF. NO.</u>
#1FLUID40Z	ULTRACHEM	C-024

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**SPECIAL TOOLS:**

No other tools are required. Refer to the applicable overhaul manual.

**WEIGHT AND BALANCE:**

Not affected.

**ELECTRICAL LOAD DATA:**

Not affected.

**REFERENCES:**

BHT-206L Maintenance Manual, Rev. 21, 22 August 1995.

Chapter 53, Fuselage.

Chapter 63, Main driveshaft.

BHT-206L-3 Maintenance Manual, Rev. 1, 21 July 1993.

Chapter 53, Forward fuselage.

Chapter 63, Main driveshaft.

BHT-206L-4 Maintenance Manual, Rev. 1, 21 April 1998.

Chapter 53, Forward fuselage.

Chapter 63, Main driveshaft.

BHT-206L-4T Maintenance Manual, Rev. 3, 18 February 1998.

Chapter 53, Forward fuselage.

Chapter 63, Main driveshaft.

BHT-206L-CR&O, Issue 18 June 1993.

Chapter 63, Main rotor drive system.

BHT-206L-Series-IPB, Rev. 1, 2 February 1996.

Chapter 63, Main rotor drive system.

BHT-206L4T-IPB, Issue 20 July 1994.

Chapter 63, Main rotor drive system.

**PUBLICATIONS AFFECTED:**

BHT-206L-Series-IPB, Rev. 1, 2 February 1996.

BHT-206L4T-IPB, Original Issue, 20 July 1994.

**ACCOMPLISHMENT INSTRUCTIONS:**

1. Prepare the helicopter for maintenance.
2. Remove the applicable cowling to gain access to the main driveshaft (Maintenance Manual, Chapter 53).
3. Remove the main driveshaft (Maintenance Manual, Chapter 63).
4. Drain the transmission oil (Maintenance Manual, Chapter 12).
5. Remove the input adapter and the magnetic seal housing (CR&O, Chapter 63).

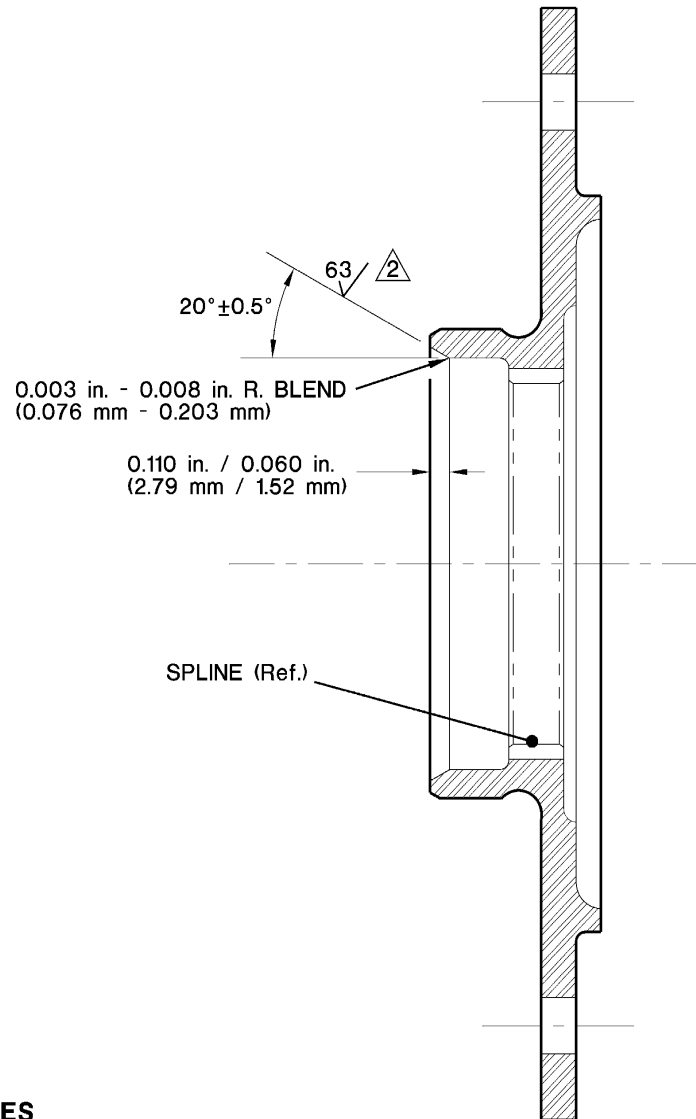
**NOTE**

The addition of a chamfer to the adapter 206-040-048 and 406-040-070 will make it easier for the adapter to slide over the packing A10710.V720. However, it is still possible to install the new packing without this modification being accomplished on the adapter.

6. To minimize the effort required during assembly, modify the input adapter as shown of Figure 1.
7. Lubricate packing A10710.V720 with Fluid #1 (C-024).
8. Install packing A10710.V720 as a replacement for A9854.16347, A09854.V720, L1523 series and L-1523 series.
9. Install the input adapter, magnetic carbon seal and housing (BHT-206L-SERIES-CR&O).
10. Fill the transmission with oil (Maintenance Manual Chapter 12).
11. Install the main driveshaft (Maintenance Manual, Chapter 63).
12. Install the cowling you removed in Step 2 (Maintenance Manual, Chapter 53).

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13. Perform a ground run for 5 minutes at 100% NR and inspect for leaks.
  14. Make an entry in the helicopter historical records to show that this Technical Bulletin is completed.
  15. Make an entry in the Record of Technical Bulletins in the Maintenance Manual.



**NOTES**

1. Break all sharp edges.
2. Surface finish to be 63  $\mu$ in. (1.6  $\mu$ m) RMS.
3. Applicable to couplings:  
206-040-048-001  
206-040-048-003  
206-040-048-101  
406-040-070-101  
406-040-070-103
4. Positional run-out 0.010 in. (0.254 mm) max.

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**Figure 1. Input Adapter Modification**