

TECHNICAL BULLETIN

Bell Helicopter **TEXTRON**

A Subsidiary of Textron Inc.

No. 230-00-29

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DATE
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MODEL AFFECTED: 230

SUBJECT: TRANSMISSION ASSEMBLY P/N 222-040-003-119, AND -123, CONFIGURATION CHANGE AND UPGRADE

HELICOPTERS AFFECTED: Model 230 Serial Number 23001 through 23038

COMPLIANCE: At Customer's Option

DESCRIPTION:

This bulletin provides operators with the information required to upgrade a transmission assembly to the latest configuration. Table 1 lists the components that comprise the differences between transmission assembly dash number configurations.

Certified design configuration of the helicopters at time of delivery were as follows:

<u>Helicopter S/N</u>	<u>Drive Assembly Part Number</u>
23001 through 23038	222-040-003-119

Transmission Assembly P/N 222-040-003-123 is the current spare replacement.

The use of a later dash numbered drive assembly on an earlier serial number helicopter is approved. The use of an earlier dash numbered drive assembly on a later serial number helicopter is not authorized and places the helicopter out of the certified design configuration.

Following upgrade, the dash number identification must be updated in the transmission assembly records.

APPROVAL:

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

MANPOWER:

No man power requirements are stated, as the length of time for the upgrade will vary with the upgrade required. Upgrades at time of overhaul should result in no addition to man-hour requirements normally incurred.

MATERIAL:

Reference ACCOMPLISHMENT INSTRUCTIONS. Material will be available through your Bell Helicopter Textron Supply Center.

SPECIAL TOOLS:

Reference Model 230 Component Repair and Overhaul Manual Volume 2, Chapter 63.

WEIGHT AND BALANCE:

Not affected

ELECTRICAL LOAD DATA:

Not affected

REFERENCES:

BHT-230-MM-6, Chapter 63
BHT-230-CR&O-2, Chapter 63
IL GEN-94-53, Powertrain component corrosion prevention.
OSN GEN-96-28, Transmission spiral bevel gear cracks.

PUBLICATIONS AFFECTED:

BHT-230-MM-6, Chapter 63
BHT-230-CR&O-2, Chapter 63

ACCOMPLISHMENT INSTRUCTIONS:

Table 1 lists the major components of dash numbered configurations, but does not contain parts and hardware common to all configurations. These items are contained in the Illustrated Parts Catalog.

Overhaul Transmission assembly in accordance with Model 230 Component Repair and Overhaul Manual.

The upgraded transmission assembly must have its data plate and Historical Record reidentified to new part number that the transmission assembly was upgraded to. The suffix "FM" will be added after the part dash number to indicate "Field Modified". The serial number of field modified part shall never be altered or changed.

Example: Upgrade the transmission assembly P/N 222-040-003-119 to the -123 configuration. Reidentify transmission assembly data plate and Historical Service Record to new part number: 222-040-003-~~119~~-123 FM.
Retain existing serial number.

Table 1

TRANSMISSION ASSEMBLY P/N

PART NUMBER	NOMENCLATURE	-119	-123	NOTE
222-040-003	Transmission Assembly			(1)(2)
222-031-663-101	Shield, L. H.	x		(1)(2)
222-031-663-103	Shield, R.H	x		(1)(2)
230-031-619-101	Mount Assembly	x		(1)(2)
230-031-620-101	Mount Assembly	x		(1)(2)
12020-12-12D	Fitting (Qty 2)	x	x	3

-NOTE-

1. Transmission Assembly P/N 222-040-003-123 is the same as –119 except the L/H and R/H mounts and shields are not installed. That configuration provides a single Transmission Assembly that may be installed on any model 222 and 230.
2. Installation of Transmission Assembly P/N 222-040-003-123 in Model 230 aircraft will require installation of the L/H and R/H mounts and shields. Refer to BHT-230-MM-6 and BHT-230-CR&O-2 for installation instructions.
3. Fitting P/N 12020-12-12D is the interface with the transmission oil inlet and outlet hoses to the oil cooler.