

TECHNICAL BULLETIN

Bell Helicopter **TEXTRON**

A Subsidiary of Textron Inc

No. 214-99-89

Date 12-15-99

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DATE
REV

MODEL AFFECTED: 214B/214B-1

SUBJECT: INTRODUCTION OF IMPROVED TRANSMISSION OIL FILLER CAP ASSEMBLY, P/N F502SC

HELICOPTERS AFFECTED: All 214B/214B-1 helicopters

COMPLIANCE: At customer's option

DESCRIPTION:

The P/N F502SC Filler Cap Assembly has an improved internal baffle design which greatly reduces the possibility of water ingestion through the cap's vent holes. Installation of the P/N F502SC Filler Cap Assembly on the 214B/B-1 helicopters will also require replacement of the existing filler neck and cap assembly with P/N F9716 Filler Neck.

APPROVAL:

The engineering design aspects of this bulletin are FAA/DER approved.

MANPOWER:

Approximately 1.5 man-hours will be required to accomplish this bulletin per helicopter.

Man-hours are based on "hands-on-time." Elapsed time to accomplish the required maintenance task may vary due to manpower and facilities available to the operator.

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>
214-040-839-001	Gasket	1
F502SC	Cap Assembly	1
F9716	Filler Neck	1
M83248/1-920	Packing	1

Consumable Material:

The following material is required to accomplish the bulletin, however, this material is considered consumable (bench stock) material and may not require ordering depending on the operators consumable material stock levels. This material may be obtained through your Bell Helicopter Textron Supply Center.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Quantity</u>
AN960-516	Washer	4
MS20995C32	Lockwire	As Required
MS21042L5	Nut	4

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not affected

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

BHT-214B-CR&O-1, Chapter 66.
BHT-214B-IPB, Chapter 63.

PUBLICATIONS AFFECTED:

BHT-214B-MM-1, Chapter 12
BHT-214B-CR&O-1, Chapter 66.
BHT-214B-IPB, Chapter 63.

ACCOMPLISHMENT INSTRUCTIONS:

1. Refer to Figure 1. Gain access to the transmission assembly oil filler neck and cap assembly.
2. Remove existing filler neck and cap assembly, P/N 214-040-816-007 or -009, and the P/N 214-040-816-003 or 214-040-839-001 Gasket as noted in BHT-214B-CR&O-1, Chapter 66. Use caution to ensure the transmission is not contaminated with debris or foreign objects. Retain washers and nuts for reinstallation if they are serviceable.
3. Locate a new P/N 214-040-839-001 Gasket in place, install the P/N F9716 Filler Neck and secure with four serviceable P/N AN960-516 washers and MS21042L5 nuts. Torque nuts 30 to 50 IN-LB.
4. Install a P/N M83248/1-920 Packing in the top of the F9716 Filler Neck and thread the P/N F502SC Filler Cap Assembly into the filler neck; torque 50 to 75 FT-LB. Secure with P/N MS20995C32 Lockwire.

