

TECHNICAL BULLETIN
Bell Helicopter **TEXTRON**

A Subsidiary of Textron Inc.

No. 214ST-03-173

Date 03-14-03

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DATE
REV

MODEL AFFECTED: 214ST

SUBJECT: INTERMEDIATE GEARBOX MOUNTING
HARDWARE CHANGE

HELICOPTERS AFFECTED: Model 214ST helicopters S/N 28101 thru 28195.
[Model 214ST helicopters serial number 28196 and subsequent have the intent of this bulletin accomplished prior to delivery]

COMPLIANCE: At Customer's Option

DESCRIPTION:

The current intermediate gearbox installation procedure requires measurement of the gap between the mounting bolt head and the gearbox case lug to ensure that the mounting bolt does not bottom prior to reaching torque.

New mounting hardware has been approved which removes the requirement to check for gap at the mounting bolt head.

APPROVAL:

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

MANPOWER:

No additional man-hours are required when accomplished during normal intermediate gearbox removal or replacement.

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>
140-007-21-18A3	Washer	3
MS9796-25	Bolt	3
NAS1149D0563J	Washer	3

Consumable Material:

The following material is required to accomplish this 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>	<u>Reference</u>
MS20995C32 or AS100028	Lockwire	AR	C-405
MIL-S-8802	Sealant	AR	C-308

SPECIAL TOOLS:

None required

WEIGHT AND BALANCE:

Not Affected

ELECTRICAL LOAD DATA:

Not affected

REFERENCES:

BHT-214ST-IPC Illustrated Parts Breakdown, Chapter 65
 BHT-214ST-MM Maintenance Manual, Chapter 65

PUBLICATIONS AFFECTED:

BHT-214ST-IPC Illustrated Parts Breakdown, Chapter 65
BHT-214ST-MM Maintenance Manual, Chapter 65

ACCOMPLISHMENT INSTRUCTIONS:

1. During installation of the intermediate gearbox assembly, replace existing hardware with new hardware as noted on Figure 1.
 - a. Insert bolt (1) with washer (2) under bolt head and washer (3) next to case through mounting lugs of gearbox into nut plates in tailboom.
 - b. Torque bolts 100 to 140 inch pounds and secure with lockwire (C-405).
 - c. Apply sealant (C-308) around periphery of mating surfaces of gearbox to airframe.
2. All other intermediate gearbox installation requirements, as defined by the 214ST Maintenance Manual, remain unchanged.

REMOVE:

- P/N AN5H15A BOLT
- P/N AN960-516 WASHER
- P/N AN960PD516 WASHER

ADD:

- P/N MS9796-25 BOLT
- P/N 140-007-21-18A3 WASHER
- P/N NAS1149D0563J WASHER

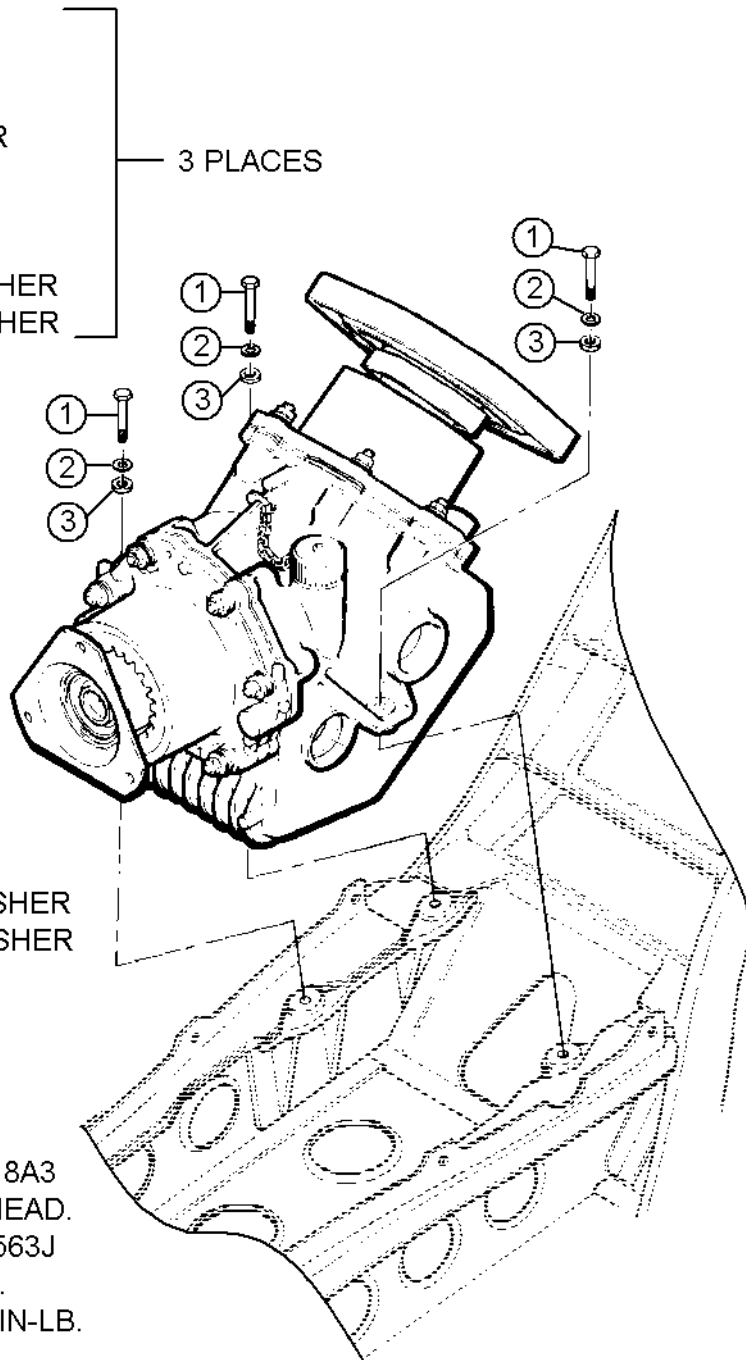


FIGURE 1