

# TECHNICAL BULLETIN

214ST-95-142

## Bell Helicopter **TEXTRON**

A Subsidiary of Textron Inc

NO. 2-14-95

DATE 1 of 3

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Post Office Box 482 • Fort Worth, Texas 76101

PAGE NO.

**MODEL AFFECTED:** 214ST

**SUBJECT:** SCISSORS AND SLEEVE ASSEMBLY, P/N 214-010-501-103, -107, -109 -113 AND -115, DRIVE PLATE ATTACHMENT BOLT AND WASHER REPLACEMENT

**HELICOPTERS AFFECTED:** All Model 214ST helicopters, S/N 28101 through 28200 and all spare scissors and sleeve assemblies.

**COMPLIANCE:** Recommended at the next "B" inspection or the next 250 hours inspection of the scissors and sleeve drive plate splines.

### DESCRIPTION:

New hardware has been developed for attaching the P/N 214-010-413 drive plate to the collective hub, P/N 214-010-505, on the scissors and sleeve assembly. This design change will reduce instances of attaching bolt torque loss, bolt failure, and drive plate fretting induced failures.

The new washers are a double chamfer design of corrosion resistant steel material and the new bolts are of an increased tensile strength with a larger head fillet radius.

This Technical Bulletin provides instructions for installing this new hardware on the scissors and sleeve assembly.

### FAA APPROVAL:

The Design Engineering aspects of this bulletin are FAA/DER approved.

### MANPOWER:

No additional manpower required if accomplished as part of the "B" Inspection.

### MATERIALS:

The following parts are required to accomplish this bulletin and may be ordered from your authorized BHTI Spare Parts Outlet.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Quantity</u>
140-007-21S18D6	Washer	6 ea.
20-097D05H5	Bolt	6 ea.

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AN APPROPRIATE ENTRY SHOULD BE MADE IN THE AIRCRAFT LOG BOOK UPON ACCOMPLISHMENT  
IF OWNERSHIP OF AIRCRAFT HAS CHANGED PLEASE FORWARD TO NEW OWNER

**WEIGHT AND BALANCE:**

Not affected

**ELECTRICAL LOAD DATA:**

Not affected

**SPECIAL TOOLS:**

None required

**REFERENCES:**

Model 214ST Maintenance Manual, Chapter 62.  
Alert Service Bulletin 214ST-90-52, Main Rotor Pylon Controls  
Installation, Bolt and Washer Replacement of  
Technical Bulletin 214ST-89-108, Scissors and Sleeve Assembly P/N  
214-010-501, Configuration Change and Upgrade

**PUBLICATIONS AFFECTED:**

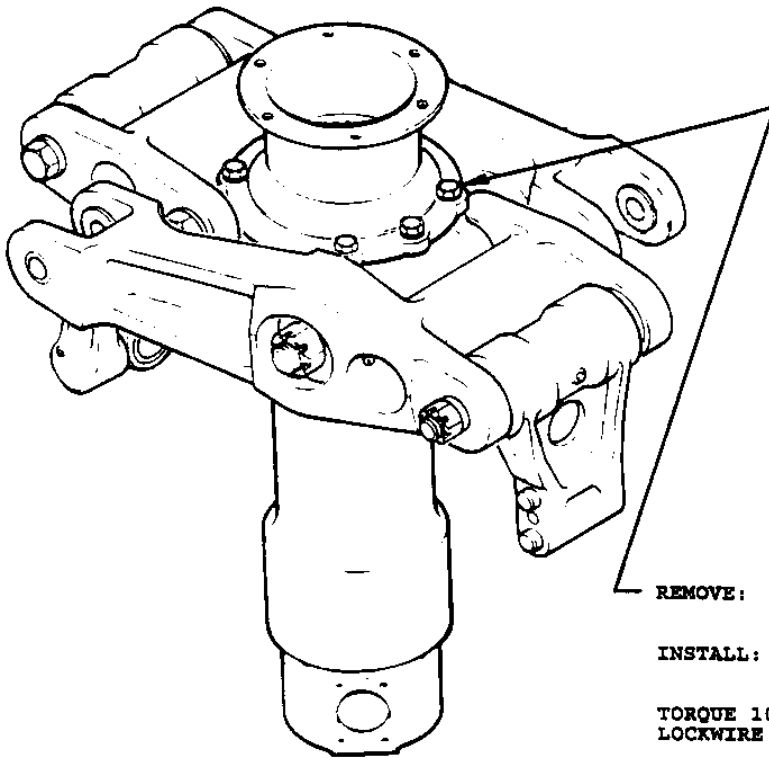
Model 214ST Illustrated Parts Catalog, Chapter 62

**ACCOMPLISHMENT INSTRUCTIONS:**

1. Accomplish the 250 hours scissors and sleeve drive plate spline inspection in accordance with the Model 214ST Maintenance Manual, Chapter 62.
  - a. Remove and discard the six (6) drive plate bolts P/N NAS1305-3H or P/N NAS6605H3, and washers P/N AN960-516.
  - b. Install six (6) new bolts P/N 20-097D05H5 and washers P/N 140-007-21S18D6. Torque bolts 100 to 140 inch pounds and secure with lockwire MS20995C32.

**NOTE**

P/N NAS1305-3H or NAS6605H3 and P/N AN960-516 washers may not be intermixed with P/N 20-097D05H5 bolts and P/N 140-007-21S18D6 washers.



**REMOVE:** 6 P/N NAS1305-3H OR NAS6605H3 BOLTS  
6 P/N AN960-516 WASHERS

**INSTALL:** 6 P/N 20-097D05H5 BOLTS  
6 P/N 140-007-21S18D6 WASHERS

**TORQUE 100 TO 140 INCH POUNDS**  
**LOCKWIRE WITH MS20995C32**

**FIGURE 1**