

TECHNICAL BULLETIN
Bell Helicopter **TEXTRON**

A Subsidiary of Textron Inc.

No. 214ST-06-175

Date AUG 28, 2006

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DATE
REV

MODEL AFFECTED: 214ST

SUBJECT: SUPPORT PLATES ON THE FLY BY WIRE (FBW)
214-001-970-107 / -111 ACTUATORS,
INSTALLATION OF

HELICOPTERS AFFECTED: Model 214ST helicopters serial number 28101 through 28159.

[Model 214ST helicopters serial number 28160 and subsequent had the intent of this bulletin accomplished prior to delivery]

COMPLIANCE: At Customer's Option

DESCRIPTION:

Installation of support plates on the -107/-111 FBW Actuators to increase the reliability and longevity of the Actuators.

APPROVAL:

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

MANPOWER:

Approximately 8.0 man-hours are required to complete this bulletin. Man-hours are based on hands-on time, and may vary with personnel and facilities available.

WARRANTY:

Warranty does not apply to this bulletin.

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>
214-001-950-101	PLATE	1
214-001-951-101	PLATE	1
AN96OJD416	WASHER	4
MS14144L4	NUT	2
MS24665-151	PIN, COTTER	2
NAS6204-3D	BOLT	2

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 operator's 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>
MIL-P-85582	EPOXY POLYAMIDE PRIMER	AR	C-204
MIL-C-81706, CLASS 1A	FILM, CHEMICAL, ALODINE	AR	C-100
MS20995C32	WIRE, SAFETY	AR	C-553

SPECIAL TOOLS:

None required

WEIGHT AND BALANCE:

Weight and Balance is not affected by this bulletin.

ELECTRICAL LOAD DATA:

Not affected

REFERENCES:

BHT-214ST-IPC Illustrated Parts Breakdown, Chapter 67

BHT-214ST-MM Maintenance Manual, Chapters 67

BHT-214ST-CR&O Component Repair and Overhaul, Chapter 67

PUBLICATIONS AFFECTED:

None affected

ACCOMPLISHMENT INSTRUCTIONS:

1. Remove both inboard bolts and safety wire on the actuators.
2. Temporally attach the 214-001-950-101 plate to the 214-001-970-107/-111 actuator as shown in fig. 1. Attach the 214-001-951-101 plate to the 214-001-970-107/-111 actuator as shown in fig. 1.
3. Align both 214-001-970-107/-111 actuators in a butt line plane so that neither end bearing is resting against its stop.
4. With the actuators aligned per step 3, drill the same diameter hole (.250 min to .255 max) thru 214-001-950-101 plate into the 214-001-951-101 plate.
5. Remove plates from actuators.
6. Deburr the holes.
7. Alodine the bare metal.
8. Prime the holes.
9. Attach plates to actuators with screws.
10. Attach plates in the middle with bolts, washers and nuts.
11. Torque screws on actuators to 20 to 25 in-lbs and safety wire.
12. Torque nuts on plates to 50 to 70 in-lbs.
13. Install cotter pins.
14. Make an entry in helicopter historical records indicating compliance with this tech bulletin.

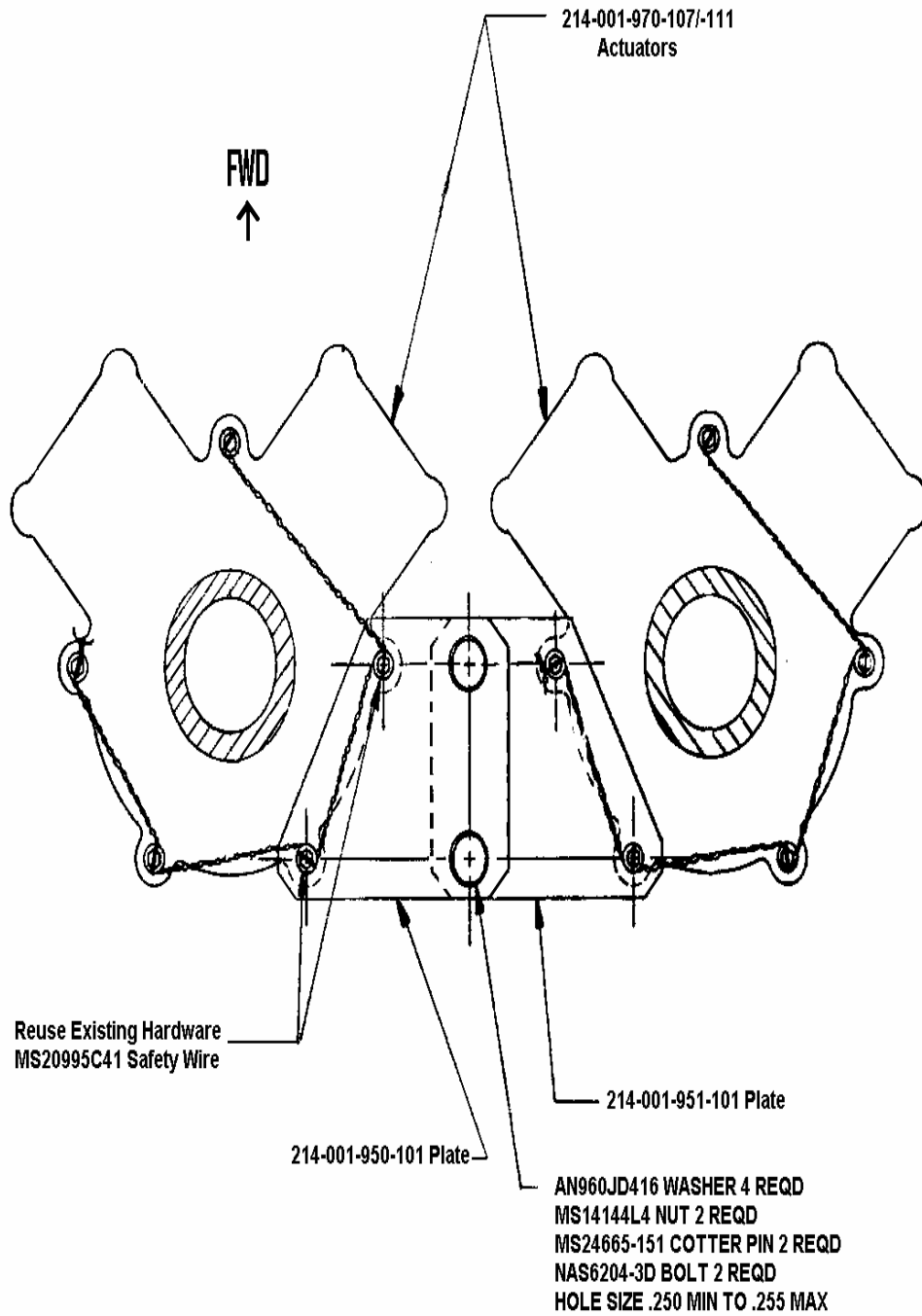


Fig. 1
View Looking Down