

Bell Helicopter **TEXTRON**

Bell Helicopter Textron Inc.
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August 11, 1999

TO: All 214ST Owners and Operators

**SUBJECT: REVISION "A" TO TECHNICAL BULLETIN NO. 214ST-98-158:
DUAL HYDRAULIC SERVO ACTUATOR ASSEMBLY, P/N 214-
076-161-ALL; CHANGE IN RETIREMENT LIFE AND
ESTABLISHMENT OF TBO INTERVAL**

Technical Bulletin No. 214ST-98-158, dated 9-9-98, has been revised to clarify and correct information concerning the serialization of existing lower barrels.

TECHNICAL BULLETIN
Bell Helicopter **TEXTRON**

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No. 214ST-98-158

Date 09-09-98

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DATE 08-11-1999
REV A

MODEL AFFECTED: 214ST

SUBJECT: DUAL HYDRAULIC SERVO ACTUATOR ASSEMBLY, P/N 214-076-161-ALL: CHANGE IN RETIREMENT LIFE AND ESTABLISHMENT OF TBO INTERVAL

HELICOPTERS AFFECTED: All Model 214ST Helicopters, S/N 28101 and subsequent.

COMPLIANCE: Effective upon receipt of this bulletin.

DESCRIPTION:

Review of fatigue test data has determined that the Airworthiness (retirement) Life of the Dual Hydraulic Servo Actuator, P/N 214-076-161-ALL, may be revised to include only those fatigue sensitive detail parts contained within the servo assembly. The 10,000 hour Airworthiness Life on the P/N 214-076-161-ALL Dual Hydraulic Servo Actuator Assembly is removed, however, the 10,000 hour airworthiness life on the P/N 41002418, 41005233, or 41005043 lower barrel (part of the P/N 214-076-161 assembly) remains.

Additionally, to ensure continued airworthiness, a 10,000 hour Time Between Overhaul (TBO) is established for P/N 214-076-161-ALL.

APPROVAL:

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

MANPOWER:

None required.

MATERIAL:

None required.

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

Model 214ST Maintenance Manual, Chapters 4 and 5.

T.B. 214ST-84-37, Main Rotor Hydraulic Actuator, P/N 214-076-161-101/-103, Piston Seals and Cylinder Assemblies, Replacement, Revision A dated 1-30-86.

T.B. 214ST-86-68, Main Rotor Hydraulic Actuator, P/N 214-076-161-101/-103/-105, Piston Seals and Upper Cylinder, Replacement of, dated 7-30-86.

T.B 214ST-91-124, Main Rotor Hydraulic Actuator, P/N 214-076-161- 101/-103/-105 and -107, Piston Seals and Rod Seals, Replacement of, dated 6-27-91.

PUBLICATIONS AFFECTED:

Model 214ST Maintenance Manual, Chapters 4 and 5.

ACCOMPLISHMENT INSTRUCTIONS:

1. Annotate P/N 214-076-161 Dual Servo Actuator component historical record card to:
 - a. Remove the 10,000 hour airworthiness life from the P/N 214-076-161 assembly.

- b. Show a 10,000 hour TBO for the P/N 214-076-161 assembly.
 - c. Add the P/N 41002418, 41005233, or 41005043 Lower Barrel to the sub-components side of the card showing a 10,000 hour airworthiness (retirement) life.
2. At the next 1000 hour or 2500 hour actuator seal change, which ever applies, record part number, serial number, and total time of installed lower barrel (either P/N 41002418, 41005233, or 41005043) on the component historical record card noted in paragraph 1 above. Unless it is replaced during the seal change, the lower barrel will assume the total time then current on the actuator assembly, P/N 214-076-161.

NOTE: Lower barrels manufactured prior to May 18,1999, are not serialized but have a manufacturing date code. **These barrels must be locally serialized by an approved HR Textron repair facility** which will add the actuator assembly serial number following the manufacturing date code.

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3. Overhaul of the P/N 214-076-161 Dual Servo Actuator Assembly must be accomplished by an approved HR Textron repair facility. Contact HR Textron Customer Service at telephone 805-253-5509 or fax 805-253-5970 for a list of approved facilities.