

## ALERT SERVICE BULLETIN

**Bell Helicopter** **TEXTRON**

A Subsidiary of Textron Inc

NO. 430-99-14

DATE 12/17/99

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DATE

REV

**MODEL AFFECTED:** 430

**SUBJECT:** CHAPTER 4 – AIRWORTHINESS LIMITATIONS SCHEDULE, CHANGES TO

**HELICOPTERS AFFECTED:** Model 430 Serial Number 49001 and Subsequent

**COMPLIANCE:** Immediately upon receipt of this bulletin.

### DESCRIPTION:

Bell Helicopter introduced improved fluidlastic main rotor dampers by Alert Service Bulletin 430-98-8, which eliminated the 50-hour damper inspection requirement. Introduction of the P/N 430-310-104-105 dampers was also accompanied by Temporary Maintenance Manual revision, dated 11 December 1998, that assigned temporary airworthiness life limits to the fluidlastic dampers, main rotor blades, main rotor yokes and other main rotor components.

Fatigue testing on the Bell 430 main rotor system with fluidlastic dampers installed is now complete. The testing has successfully substantiated the return of all main rotor components to their original airworthiness life limits, and in some cases higher than the original airworthiness life limits.

This Alert Service Bulletin is issued to introduce a new Chapter 4, Airworthiness Limitations Schedule, to the Bell 430 Maintenance Manual. The new Chapter 4 has been completely revised to reflect the new mandatory maximum life of all components with an airworthiness life limit. In addition, the airworthiness inspection limitation section has been revised, and where necessary new inspections have been added, including replacement of the torque shear pad attaching bolts on the pylon fluid mount every 2500 hours of operation.

The Bell 430 Maintenance Manual Chapter 5 – Inspection and Component Overhaul Schedule, has been revised to include the new inspection requirements and procedures to replace the torque shear pad attaching bolts on the pylon fluid mounts, and has also been added to the Maintenance Manual Chapter 63.

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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

**APPROVAL:**

The engineering design aspects of this bulletin are Transport Canada approved.

**MANPOWER:**

None required

**MATERIAL:**

None required

**SPECIAL TOOLS:**

Not required

**WEIGHT AND BALANCE:**

Not affected

**ELECTRICAL LOAD DATA:**

Not affected

**REFERENCES:**

ASB 430-98-8  
BHT-430-MM-2, Chapter 4 and 5  
BHT-430-MM-6, Chapter 63

**PUBLICATIONS AFFECTED:**

BHT-430-MM-2, Chapter 4 and 5  
BHT-430-MM-6, Chapter 63

**ACCOMPLISHMENT INSTRUCTIONS:**

1. Insert BHT-430-MM, Revision 3, Dated 15 December 1999 in the Maintenance Manual.
2. Review and update historical record cards to reflect the new airworthiness life listed in Chapter 4 of BHT-430-MM, Revision 3, Dated 15 December 1999.
3. Revise/annotate historical record card of Pylon Fluid Mount P/N 430-310-200-107 to reflect requirement to replace the torque shear pad attaching bolts every 2500 hours of operation.
4. Make a log book entry showing compliance with this bulletin.