

ALERT SERVICE BULLETIN

430-12-48
14 November 2012

MODEL AFFECTED: 430

SUBJECT: INTRODUCTION OF NEW DAMAGE LIMITS AND AIRWORTHINESS INSPECTION REQUIREMENTS FOR MAIN ROTOR YOKE P/N 430-010-101-101

HELICOPTERS AFFECTED: Serial numbers 49001 through 49129

COMPLIANCE: PART I Upon release of this bulletin for all yokes

PART II At the next 150 hour scheduled inspection but no later than 31 March 2013

DESCRIPTION:

Bell Helicopter has received several reports concerning the main rotor yoke assembly P/N 430-010-101-101. The reports indicate that the damage limits currently listed in BHT-430-CR&O-2 manual had been reached in the transition area of the yoke between station 23 and station 31.

This bulletin introduces new damage limits for the main rotor yoke along with revised airworthiness inspection requirements. BHT-430-MM, Chapter 4 and 5 and BHT-CR&O, Chapter 62 have been revised to include the new inspection requirements and are issued jointly with this bulletin

Applicability of this bulletin to any spare part shall be determined prior to its installation on an affected aircraft.

APPROVAL:

The engineering design aspects of this bulletin are Transport Canada Civil Aviation (TCCA) approved.

CONTACT INFO:

For any questions regarding this bulletin, please contact:

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MANPOWER:

Approximately 4.0 man-hours are required to complete this bulletin. This estimate is based on hands-on time, and may vary with personnel and facilities available.

WARRANTY:

There is no warranty credit applicable for parts or labor associated with this bulletin.

MATERIAL:

None required

Consumable Material:

None required

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not required

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

BHT-430-MM-2, Chapter 4 and 5
BHT-430-MM-6, Chapter 62
BHT-430-CR&O-2, Chapter 62

PUBLICATIONS AFFECTED:

BHT-430-MM-2, Chapter 4 and 5
BHT-430-CR&O-2, Chapter 62

ACCOMPLISHMENT INSTRUCTIONS:

PART I:

1. Upon release of this bulletin, insert BHT-430-MM, Chapter 4 and 5, Revision 19 dated 01 November 2012 in Maintenance manual.
2. Upon release of this bulletin, insert BHT-430-CR&O Revision 8 dated 01 November 2012 in CR&O manual.
3. Review and update aircraft and historical records to reflect the new airworthiness inspection requirements for main rotor yoke P/N 430-010-101-101.
4. Make an entry in helicopter historical service records indicating compliance with PART I of this Bulletin.

PART II:

NOTE-

Removal of all main rotor blades to allow inspection of both arms of the yoke(s) is required to establish a base line in order to select the proper inspection interval for each arm of the yoke.

5. Prepare helicopter for maintenance.
6. Remove main rotor blade(s) to perform main rotor yoke(s) inspection. Refer to BHT-430-MM-6, Chapter 62.
7. Inspect main rotor yoke per criteria listed in BHT-430-MM, Chapter 4 and 5, Revision 19 dated 01 November 2012 and BHT-430-CR&O-2, Chapter 62, Revision 8 dated 01 November 2012, paying particular attention to the transition area between Station 23 and Station 31.
 - a. If no crack is found, no further action is required. Annotate aircraft records and the history card of the yoke(s) indicating the correct inspection interval. Refer to BHT-430-MM-2, Chapter 4 and 5, Revision 19 dated 01 November 2012 for inspection requirements.

- b. If crack(s) are present, clearly mark the crack(s) with a black pencil. Accurately measure the crack(s). Annotate the aircraft records and history card of the yoke(s) indicating the correct inspection interval. Refer to BHT-430-MM-2, Chapter 4 and 5, Revision 19 dated 01 November 2012 for inspection requirements.
 - c. If required, repair yoke(s) with procedures listed in BHT-430-CR&O-2, Chapter 62, Revision 8 dated 01 November 2012.
8. Repeat the inspection of each affected main rotor yoke arm in accordance with inspection interval listed in BHT-430-MM-2, Chapter 4 and 5, Revision 19 dated 01 November 2012.
 9. Make an entry in helicopter historical service records indicating compliance with PART II of this Alert Service Bulletin.