

ALERT SERVICE BULLETIN

430-13-51

PSL7000000051

3 September 2013

Revision A, 12 June 2014

MODEL AFFECTED: 430

SUBJECT: P/N 430-001-007-101 TAIL ROTOR CONTROL TUBE ASSEMBLY, REMOVAL FROM SERVICE

HELICOPTERS AFFECTED: Serial numbers 49001 through 49121.

Serial numbers 49122 and subsequent were equipped with control tube assembly P/N 430-001-007-105 prior to delivery and are not affected by this bulletin.

Helicopters equipped with control tube assembly P/N 430-001-007-105 per Technical Bulletin 430-04-35 are not affected by this bulletin. Refer to accomplishment instructions.

COMPLIANCE: As soon as practical but no later than next 50 hour inspection or **30 September 2014** whichever occurs first.

DESCRIPTION:

Bell Helicopter has received 2 reports of P/N 430-001-007-101 control tube assembly bonded clevis failure. Investigation revealed that the clevis failed due to fatigue caused by oscillation of the control tube assembly.

Original Alert Service Bulletin introduced a one-time inspection of control tube assembly P/N 430-001-007-101 to verify if chafing damage existed on the tube. In addition, procedure was provided to apply some lead tape to the control tube. That modification reduced the amplitude of radial vibration and prevented contact of the tube with adjoining parts and structure.

Revision A of this bulletin requires mandatory removal from service of all P/N 430-001-007-101 control tubes.

Previously, Technical Bulletin 430-04-35 was issued to replace the P/N 430-001-007-101 with a new -105 control tube assembly.

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:

Bell Helicopter Product Support Engineering - Intermediate Helicopters
Tel: 450-437-2077 / 1-800-463-3036 / pseinter@bh.com

MANPOWER:

Approximately 2.0 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:

Owners / Operators of Bell Helicopters who comply with the instructions in this Bulletin will be eligible to receive replacement parts as applicable, listed in the bulletin. Bell Helicopter has recently introduced enhancements to the VISTA Portal which allocates specific warranty entitlement for an aircraft by serial number. The Product Service Letter (PSL) number which will be listed below the bulletin number on the introduction page is going to be a required field when submitting a claim for replacement parts. If you receive an ASB or TB that does not have a PSL number, then there is no warranty entitlement for that bulletin.

Labor entitlement: There will be no labor associated with this bulletin.

To receive parts under warranty:

- Comply with the instructions contained in this Bulletin no later than the applicable date in the “compliance section”.
- If there is a PSL number identified in the bulletin you will be required to enter this PSL number which will validate warranty entitlement for the selected aircraft. Please ensure that you use the Bulletin tab on the warranty section in VISTA to file your claim.

NOTE: Customers who fail to comply with the instructions in this Bulletin before 30 September 2014 are not eligible for the special warranty listed above.

MATERIAL:

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>Qty</u> |
|--------------------|---------------------|------------|
| 430-001-007-105 | Control tube | 1 |

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Negligible.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

BHT-430-MM Maintenance Manual
BHT-430-CR&O Component Repair and Overhaul Manual
Technical Bulletin 430-04-35, Rev B dated March 20, 2009

PUBLICATIONS AFFECTED:

BHT-430-MM Maintenance Manual

ACCOMPLISHMENT INSTRUCTIONS:

1. Prepare helicopter for maintenance.
2. Remove panels and covers as required to gain access to tail rotor control tube P/N 430-001-007-101. Refer to BHT-430-MM.
 - a. Remove control tube assembly P/N 430-001-007-101 from the helicopter. Discard control tube.

-NOTE-

Modification of bulkhead per Part III of TB 430-04-35 Rev B must be applied jointly with the installation of 430-001-007-105 control tube to improve clearance between the control tube and center web at station 178.50.

3. Install 430-001-007-105 control tube assembly in the helicopter in accordance with Technical Bulletin 430-04-35, Rev B dated March 20, 2009.
4. Reinstall panels and covers previously removed. Refer to BHT-430-MM.
5. Make an entry in the helicopter logbook and historical service records indicating compliance with this Revision A of this Alert Service Bulletin.