



No.	CF-2010-11	1/1
Issue Date	7 April 2010	

AIRWORTHINESS DIRECTIVE

The following airworthiness directive (AD) may be applicable to an aircraft which our records indicate is registered in your name. ADs are issued pursuant to **Canadian Aviation Regulation (CAR) 521 Division X**. Pursuant to **CAR 605.84** and the further details of **CAR Standard 625, Appendix H**, the continuing airworthiness of a Canadian registered aircraft is contingent upon compliance with all applicable ADs. Failure to comply with the requirements of an AD may invalidate the flight authorization of the aircraft. Alternative means of compliance shall be applied for in accordance with **CAR 605.84** and the above-referenced **Standard**.

This AD has been issued by the Continuing Airworthiness Division (AARDG), National Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

- Number:** CF- 2010-11
- Subject:** Transmission Planetary Pinion Gear Damage
- Effective:** 27 April 2010
- Applicability:** Bell Helicopter Textron Canada Model 430 helicopters serial number 49001 through 49129.
- Compliance:** No later than 30 days after the effective date of this directive, unless already accomplished.
- Background:** Significant mechanical damage to the transmission sungear and planetary pinion gears has been attributed to a planetary system misalignment caused by an excessive mast bending.

This condition, if not corrected, may lead to failure of the transmission and loss of control of the helicopter.

To preclude excessive mast bending, and consequent damage to the transmission planetary pinion gears and mating gears, revised V_{NE} limits are imposed together with revised restricted center of gravity envelopes and secondary V_{NE} limits.

- Corrective Actions:**
- Decal installation
Relocate compass correction cardholder and install the applicable V_{NE} decals in accordance with Accomplishment instructions of Alert Service Bulletin (ASB) 430-09-43 dated 30 October 2009, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
 - Rotor Flight Manual Changes
Amend the Rotorcraft Flight Manual and Rotorcraft Flight Manual Supplements as applicable to the configuration of the rotorcraft by inserting the following revisions:
 - BHT-430-FM-1 Revision 18 Dated 1 September 2009
 - BHT-430-FMS-1 Revision 6 Dated 1 September 2009
 - BHT-430-FMS-2 Revision 3 Dated 14 October 2009
 - BHT-430-FMS-10 Revision 3 Dated 14 October 2009

Advise all flight crews of the changes introduced through the above Rotorcraft Flight Manual and Rotorcraft Flight Manual Supplements.

Authorization: For Minister of Transport, Infrastructure and Communities

ORIGINAL SIGNED BY

Philip Tang for
Derek Ferguson
Chief, Continuing Airworthiness

Contact: Bogdan Gajewski, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-952-9178 or e-mail CAWWEBFeedback@tc.gc.ca or any Transport Canada Centre.

Pursuant to **CAR 202.51** the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address.

To request a change of address, contact the **Civil Aviation Communications Centre (AARC)** at **Place de Ville, Ottawa, Ontario K1A 0N8**, or 1-800-305-2059, or www.tc.gc.ca/civilaviation/communications/centre/address.asp

