



No.	CF-2010-29	1/2
Issue Date	26 August 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.

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TRANSPORT CANADA EMERGENCY AIRWORTHINESS DIRECTIVE

PLEASE FORWARD IMMEDIATELY TO THE PERSON RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF YOUR AIRCRAFT

Number: CF-2010-29

Subject: Servo actuator

Effective: Upon receipt

Applicability: Bell Helicopter Textron Canada Models 222, 222B, 222U, 230 and 430 helicopters equipped with hydraulic servo actuators Part Number (P/N) 222-382-001-107.

Compliance: As soon as possible, but no later than 5 air time hours upon receiving this directive, unless already accomplished.

Background: It has been determined that the output piston rod assemblies of the hydraulic servo actuators may be corroded and, consequently, prone for corrosion cracking. Also, in one case, an unapproved repair was found on the piston rod.

This situation, if not corrected, could result in a loss of control of the helicopter.

This AD mandates:

- i. A one time inspection and, if applicable, rectification of the servo actuator.
- ii. Complete overhaul of servo actuator P/N 222-382-001-107.

Corrective Actions: A. Perform an inspection and, if applicable, rectify the servo actuator in accordance with the instructions provided in the applicable Bell Helicopter Alert Service Bulletin (ASB) listed below.

Helicopter Model	ASB dated 18 August 2010
222 and 222B	222-10-109
222U	222U-10-80
230	230-10-41
430	430-10-44

B. Following compliance with part A, the servo actuator will require a complete overhaul based on the type of material applied as protection to the piston rod during the inspection/rework procedure, within:



1. 1200 air time hours or 12 months, whichever come first, for zinc chromate primer, or
 2. 2400 air time hours or 24 months, whichever come first, for brush cadmium plating.
- C. As of the effective date of this directive, no operator may install a replacement servo actuator, P/N 222-382-001-107, unless the servo actuator complies with Part A of this directive.

Authorization: For Minister of Transport, Infrastructure and Communities

ORIGINAL SIGNED BY

Robin Lau for
Derek Ferguson
Chief, Continuing Airworthiness

Contact: Mr. Bogdan Gajewski, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail CAWWEBFeedback@tc.gc.ca or any Transport Canada Centre.