



No.	CF-2010-20	1/2
Issue Date	19 July 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- 2010-20
- Subject:** Horizontal Stabilizer Trim Actuator (HSTA) – Assembly of Discrepant Load Bearing Balls in the HSTA
- Effective:** 4 August 2010
- Applicability:** All Bombardier Inc. Models CL-600-2C10, CL-600-2D15 and CL-600-2D24 aeroplanes equipped with HSTA part number 8489-7 or 8489-7R.
- Compliance:** As indicated below, unless already accomplished.
- Background:** During maintenance at the vendor's facility, some HSTAs were assembled with the incorrect load bearing balls. The material of these discrepant balls has lower wear characteristics and as such, has a shorter expected life. If not corrected, this condition can result in the HSTA jam leading to difficulties in controlling the aircraft.

This directive mandates incorporation of the HSTA with the correct load bearing balls.

Corrective Actions: Within 500 flight cycles from the effective date of this directive, verify the serial numbers (S/N) of the HSTA part number (P/N) 8489-7 and 8489-7R in accordance with paragraph 1.A. of Bombardier Service Bulletin (SB) 670BA-27-057, dated 28 April 2010 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada. Verification of the S/N and P/N of the HSTA may be accomplished by visual check of the HSTA S/N and P/N on the aeroplane or by reviewing the maintenance records.

- A. If the S/N is not listed in paragraph 1.A. of the above-mentioned SB or it's later approved revisions, no further action is required other than compliance with paragraph C of this directive.
- B. If the S/N is listed in paragraph 1.A. of the above mentioned SB or its later approved revisions, accomplish the following:
1. For the aircraft with HSTA that have accumulated less than or equal to 8000 flight cycles on the effective date of this directive, replace the HSTA before it reaches 10 000 flight cycles in accordance with paragraph 2 of the above mentioned SB or its later approved revisions;
 2. For the aircraft with HSTA that have accumulated more than 8000 flight cycles, but not more than 10 000 flight cycles on the effective date of this directive, replace the HSTA within the next 2000 flight cycles, but no later than 11 000 flight cycles in accordance with paragraph 2 of the above mentioned SB or its later approved revisions;

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

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3. For the aircraft with HSTA that have accumulated more than 10 000 flight cycles, but not more than 12 000 flight cycles on the effective date of this directive, replace the HSTA within next 1000 flight cycles, but no later than 12 500 flight cycles in accordance with paragraph 2 of the above mentioned SB or its later approved revisions;
 4. For the aircraft with HSTA that have accumulated more than 12 000 flight cycles on the effective date of this directive, replace the HSTA within next 500 flight cycles in accordance with paragraph 2 of the above mentioned SB or its later approved revisions.
- C. As of the effective date of this directive, no person shall install a replacement HSTA P/N 8489-7 or 8489-7R with a S/N listed in paragraph 1.A. of Bombardier SB 670BA-27-057, dated 28 April 2010 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Authorization: For Minister of Transport, Infrastructure and Communities

ORIGINAL SIGNED BY

Robin Lau for
Derek Ferguson
Chief, Continuing Airworthiness

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