



No.	CF-2010-04	1/2
Issue Date 27 January 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-2010-04
- Subject:** Angle of Attack (AOA) Transducer – Resolver Oil Contamination
- Effective:** 26 February 2010
- Applicability:** All Bombardier Inc. Model CL-600-2B19 aeroplanes, serial number 7003 and subsequent, equipped with Thales AOA Transducers Part Number (P/N) 45150340 or P/N C16258AA
- Compliance:** As indicated unless already accomplished.
- Background:** The manufacturer has informed Transport Canada that a certain number of the resolver stators, which were installed in the AOA transducers, were not cleaned correctly. This condition can degrade the AOA transducer performance at low temperatures resulting in freezing of the AOA transducer resolver, which may provide inaccurate AOA data to the Stall Protection System (SPS). If not corrected, this condition can result in early or late activation of the stick shaker and/or stick pusher.
- Corrective Actions:** Within 250 hours air time from the effective date of this directive, verify the serial numbers (S/N) of each of the AOA transducers P/N 45150340 or C16258AA installed on the aeroplane in accordance with paragraph 1.A. of Bombardier Alert Service Bulletin (ASB) A601R-27-157, Revision A, dated 18 January 2010 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada. Verification of the S/N of the AOA transducer(s) may be accomplished visually by verifying transducer S/N on the aeroplane or by reviewing the maintenance records.
1. If the S/N is not listed in paragraph 1.A. of the above-mentioned ASB or its approved revisions, no further action is required other than compliance with paragraph 4 of this directive.
 2. If the S/N is listed in paragraph 1.A. of the above-mentioned ASB or its approved revisions and the S/N has a letter "C", no further action is required other than compliance with paragraph 4 of this directive.
 3. If the S/N is listed in paragraph 1.A. of the above-mentioned ASB or its approved revisions and the S/N does not have a letter "C", prior to further flight, replace the AOA transducer(s) in accordance with the Accomplishment Instructions, paragraph 2, Part C of the above-mentioned ASB or its approved revisions.

NOTE: Replacement AOA transducer(s) must be either outside the affected S/N identified in paragraph 1.A. of the above-mentioned ASB or its approved revisions, or identified as having been tested by a letter "C" after the S/N.

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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4. As of the effective date of this directive, no replacement AOA transducer(s) P/N 45150340 or C16258AA with S/N listed in paragraph 1.A. of the above-mentioned ASB or its approved revisions are allowed to be installed on CL-600-2B19 aeroplanes, unless such transducers have been inspected by the manufacturer and labeled with a letter "C" after the S/N.

Authorization: For Minister of Transport, Infrastructure and Communities

ORIGINAL SIGNED BY

Philip Tang for
Derek Ferguson
Chief, Continuing Airworthiness

Contact: Gordanko Jeremic, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail [CAW WEB Feedback](#) or any Transport Canada Centre.