



No.	CF-2009-13	1/2
Issue Date	26 March 2009	

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) 593**. 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-2009-13
- Subject:** Flap Actuator Pinion Gear – Non Conformance
- Effective:** 26 April 2009
- Applicability:** All Bombardier Inc Model CL-600-2B19 aircraft, serial number 7003 and subsequent, equipped with Inboard Flap Actuators Part Number (P/N) 601R93101-21 (Eaton P/N 852D100-21) or P/N 601R93101-25 (Eaton P/N 852D100-25).
- Compliance:** As indicated unless already accomplished.
- Background:** A number of Flap Actuators with P/N 601R93101-21 and 601R93101-25 were identified as having pinion gears that did not have acceptable certificates of conformance from the supplier. This condition could result in flap failure. To correct this, operators are required to replace the Inboard Flap Actuators that are non-conforming.
- Corrective Actions:**
- A) Within 100 flight cycles from the effective date of this directive, inspect the serial number of each of the Flap Actuators P/N 601R93101-21 and P/N 601R93101-25 installed on the aircraft. If the serial number of the inspected actuator is listed below, before further flight, replace the Flap Actuator with the P/N 601R93101-21 or P/N 601R93101-25 that does not have one of the following serial numbers:
- Part Number 601R93101-21
- 7772, 7773, 7774, 7775, 7776, 7778, 7779, 7780, 7781, 7782, 7784, 7786, 7787, 7788, 7790, 7791, 7793, 7797, 7798, 7799, 7801, 7802, 7803, 7804, 7805, 7806, 7807, 7808, 7810, 7813, 7815, 7816, 7817, 7818, 7819, 7820, 7821, 7825, 7826, 7827, 7828, 7829
- Part Number 601R93101-25
- 7783, 7796
- NOTE 1: Replacing the existing Flap Actuator P/N 601R93101-21 with the P/N 601R93101-25 that does not have a serial number listed in paragraph (B) of this directive also satisfies the requirement of Part A of this directive.
- NOTE 2: Serial number verification of the affected actuator conducted by a review of the aircraft maintenance records also satisfies the requirement of Part A of this directive.
- B) Within 500 flight cycles from the effective date of this directive, inspect the serial number of each of the Flap Actuators P/N 601R93101-25 installed on the aircraft. If the serial number is listed below, before further flight replace the Flap Actuator with P/N 601R93101-25 that does not have one of the following serial numbers:

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



3278, 3401, 3512, 3526, 3597, 3599, 3606, 3738, 3806, 3861, 4066, 4284, 4315, 4401, 4499, 4538, 4582, 4658, 4979, 5007, 5094, 6422, 6969, and 7867

NOTE: Serial number verification of the affected actuator conducted by a review of the aircraft maintenance records also satisfies the requirement of Part B of this directive.

C) As of the effective date of this directive, replacement of Flap Actuator P/N 601R93101-21 or 601R93101-25 with serial numbers listed in paragraph (A) and Paragraph (B) is not allowed on any aircraft unless the serial numbers of the Actuators listed in paragraph (A) are identified with suffix "A", and those Actuator listed in paragraph (B) are identified with suffix "B".

NOTE: Serial number suffix "A" or "B" indicates that a conforming gear set has been installed.

Authorization: For Minister of Transport, Infrastructure and Communities

Derek Ferguson
Acting Chief, Continuing Airworthiness

Contact: Mr. Gordanko Jeremic, Continuing Airworthiness, Ottawa, telephone 613-952-4379, facsimile 613-996-9178 or e-mail gordanko.jeremic@tc.gc.ca or any Transport Canada Centre.