



No.	CF-2000-15R1	1/2
Issue Date	22 February 2001	

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), Aircraft Certification Branch, Transport Canada, Ottawa, telephone (613) 952-4357.

Number: CF-2000-15R1

Subject: Bombardier CL-600-2B19 "RJ" - Flight Spoiler Lug Failure

Effective: 1 March 2001.

Revision: Supersedes Airworthiness Directive (AD) CF-2000-15 issued 6 June 2000.

Applicability: Bombardier CL-600-2B19 "Regional Jet", serial numbers 7003 through 7340.

Compliance: When indicated, unless already accomplished.

Background: There have been several cases of uncommanded deployment of a flight spoiler due to fracture of the actuator lug on one of the centre hinge fittings of the left or right flight spoiler. In each case, a status message was posted and the flight crew landed the aircraft safely. The original issue of this directive introduced an inspection of the flight spoiler lug with a threshold of 7000 cycles. This revision lowers the threshold to 3000 cycles.

Corrective Actions: A. Initially before accumulating, 3000 flight cycles since new, and thereafter at intervals not to exceed 500 flight cycles, carry out an inspection of flight spoilers part numbers (P/N) 600-10602-1001 and -1002 as follows:

1. Perform an ultrasonic inspection of the actuator lugs of the flight spoiler centre hinge fittings at spoiler stations 195.36 and 204.36. Perform the inspection in accordance with section 2, Accomplishment Instructions, Part A, of Bombardier Alert Service Bulletin (ASB) A601R-57-027, Revision C dated 30 May 2000, or later revisions approved by the Director, Aircraft Certification, Transport Canada. Compliance with previous versions of ASB A601R-57-027 - original issue dated 19 April 1999, Revision A dated 23 July 1999 or Revision B dated 8 December 1999 - also meet the requirements of paragraph A.1 of this directive.
2. If indication of a crack is detected in a fitting, prior to further flight, remove the suspect flight spoiler and carry out an eddy current inspection of the lug in accordance with section 2, Accomplishment Instructions, Part B, of the aforementioned Bombardier ASB A601R-57-027, Revision C or later Transport Canada approved revisions.
3. If the ultrasonic crack indication is confirmed to be a crack by the eddy current inspection, install a replacement flight spoiler prior to further flight. If the ultrasonic crack indication is not confirmed to be a crack, the flight spoiler may be reinstalled.

4. Within 30 days following any inspection, which indicates a crack, whether or not the crack is confirmed, advise Bombardier at the address given in the aforementioned ASBs of the results of the inspection.
- B. For those aircraft which exceed the 3000-cycle inspection threshold on the effective date of this directive, or which will exceed the inspection threshold in less than 60 days after that date, carry out the initial inspection of Part A above within 60 days after the effective date of this directive. This phase-in schedule does not alter the requirement of Part A above to carry out repeat inspections at intervals not to exceed 500 flight cycles.
- C. No later than 1 July 2003, install redesigned flight spoilers P/N 600-10602-73 and -74. Bombardier Service Bulletin 601R-57-029, dated 30 May 2000, or later Transport Canada approved revisions, provide approved instructions for installation of the redesigned flight spoilers.
- D. Installation of redesigned flight spoilers P/N 600-10602-73 and -74 provides terminating action to the inspection requirements of parts A and B of this directive.

Authorization: For Minister of Transport



B. Goyaniuk
Chief, Continuing Airworthiness

Contact: Mr. Ian Mc Lellan Continuing Airworthiness, Ottawa, telephone (613) 952-4362, facsimile (613) 996-9178 or e-mail mclelli@tc.gc.ca or any Transport Canada Centre.