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| No.        | CF-2000-10    | 1/2 |
| Issue Date | 23 March 2000 |     |

# 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.

## CF-2000-10 BOMBARDIER

Applies to Bombardier Inc. (formerly Canadair) Model CL-600-2B19 "Regional Jet" aircraft, serial numbers 7003 through 7357.

Compliance is required as indicated, unless already accomplished.

Three cases of premature failure of the improved elevator flutter damper shear pins, installed in accordance with Airworthiness Directive CF-94-21R1, have been reported. An investigation has revealed that the failed shear pins did not meet the design specifications due to a quality control problem. This directive introduces a replacement of the elevator flutter damper shear pins to restore their original certified fatigue life. Since the replacement pins are physically identical to the suspected pins, it is recommended that all stocks of shear pins P/N 601R24063-31 and/or 601R24063-953 be discarded.

To restore the safe life limits of the elevator flutter damper shear pins as specified in CRJ Maintenance Requirements Manual (MRM) Part 2, Appendix B, Airworthiness Limitations Section, accomplish the following:

A. For aircraft S/N 7003 through 7142 and 7144:

1. Within 12 months after the effective date of this directive, install new shear pins P/N 601R24063-31/S in accordance with paragraph 2, Accomplishment Instructions, Part A of Bombardier Service Bulletin (SB) 601R-27-100, dated 22 December 1999 or later revisions approved by the Director, Aircraft Certification, Transport Canada.
2. Upon accomplishment of the requirements of paragraph A.1 above, the additional first-flight-of-the-day checks of the elevator control system as described in TR RJ/68-1, dated 15 February 2000, are no longer required and TR RJ/68-1 can be removed from the Aircraft Flight Manual.

B. For aircraft S/N 7143, and 7145 through 7357:

1. Within 14 days after the effective date of this directive, review the aircraft maintenance logbook or records in accordance with paragraph 2, Accomplishment Instructions, Part B of Bombardier SB 601R-27-100, dated 22 December 1999 or later Transport Canada approved revisions, to determine if any elevator flutter damper shear pins have been replaced since aircraft delivery.
2. If no elevator flutter damper shear pins have been replaced or if the shear pins have been replaced with P/N 601R24063-31/S, no further action is required.

3. If it cannot be verified that new elevator flutter damper shear pins P/N 601R24063-31/S were installed, accomplish the following:

(a) Within 30 days after the effective date of this directive, insert a copy of TR RJ/68-1, dated 15 February 2000, into the Aircraft Flight Manual and advise the flight crew of additional first-flight-of-the-day checks of the elevator control system as described in TR RJ/68-1.

(b) Within 12 months after the effective date of this directive, install new shear pins P/N 601R24063-31/S in accordance with paragraph 2, Accomplishment Instructions, Part C of the aforementioned Bombardier SB 601R-27-100.

4. Upon accomplishment of the requirements of paragraph B.3(b) above, the additional first-flight-of-the-day checks of the elevator control system, as described in the aforementioned TR RJ/68-1, are no longer required and TR RJ/68-1 can be removed from the Aircraft Flight Manual.

This directive becomes effective 14 April 2000.

For Minister of Transport



B. Goyaniuk  
Chief, Continuing Airworthiness

For further information contact a Transport Canada Centre, or Mr. Anthony Wan, Continuing Airworthiness, Ottawa, telephone (613) 952-4379, facsimile (613) 996-9178 or e-mail wana@tc.gc.ca.