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No. CF-94-21R1

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-94-21R1 CANADAIR

Applies to Canadair Model CL-600-2B19 "Regional Jet" Series 100 aircraft, serial numbers 7003 through 7054, inclusive.

Compliance is required as indicated, unless already accomplished.

The shear pins and lugs of the elevator flutter damper fittings have been found sheared-off on two aircraft that had improved shear pins installed per Airworthiness Directive (AD) CF-93-32R1. Failure of the lugs and/or shear pins increases the likelihood of the elevator surface having restricted travel or jamming that, in turn, may have serious safety implications. This prompted the issue of the superseding AD CF-94-21 to require, as an interim corrective action, removal of the elevator flutter dampers, pending development of a permanent fix of the problem.

This revision is issued to require installation of newly designed elevator flutter dampers and improved shear pins.

To restore the elevator assembly to its type approval configuration, accomplish the following:

1. Before further flight after receipt of this directive, advise the flight crew that the following Airplane Flight Manual (AFM) instructions remain in effect:

(a) Operation of the aircraft continues to be restricted to the altitude and airspeed limits required in AFM Revision 34, or later approved revisions, Chapter 5, "Abnormal Procedures", Section 13, "Hydraulic Power", Paragraphs A through C and M through O.

(b) First flight of the day checks for the elevator control system are to be performed in accordance with AFM Revision 32, or later approved revisions, Chapter 4, "Normal Procedures", Section 9, "Flight Controls", Paragraph C.

Note: The above requirements 1(a) and 1(b) were previously mandated by AFM Temporary Revisions RJ/30 and RJ/40, respectively.

2. Within the next 12 months after the effective date of this directive, accomplish the following:

(a) For aircraft serial numbers 7003 through 7049, remove the shear pins and shear links of the flutter dampers and perform inspections of the elevator hinge fittings and the shear pin lugs in accordance with Section 2.B, Part A of Bombardier Inc., Canadair Regional Jet Service Bulletin 601R-27-040 Revision B, dated 11 September 1995, or later revisions approved by the Director, Airworthiness Branch, Transport Canada, Ottawa.

(b) For aircraft serial numbers 7003 through 7054, install new shear pins (P/N 601R24063-953) and new elevator flutter dampers (P/N 601R75142-7) in accordance with Section 2.B, Part B of the aforementioned service bulletin.

Alternative means of compliance with the requirements of this directive may be used only if approved by the Director, Airworthiness Branch, Transport Canada, Ottawa. Any application should be made to the appropriate regional office.

This revision supersedes Airworthiness Directive CF-94-21 issued 28 October 1994.

This directive becomes effective 30 November 1995.

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 <http://www.tc.gc.ca/civilaviation/communications/centre/address.asp>.

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