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No. CF-95-08R2

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-95-08R2 CANADAIR

Applies to Canadair Model CL600-2B19 "Regional Jet" Series 100 aircraft, serial numbers 7003 through 7112.

Compliance is required as indicated, unless already accomplished.

During a recent Canadair review of vendor documentation of the horizontal stabilizer trim control unit (HSTCU), design deficiencies that may have serious impact on the safety of the aircraft were discovered. These design deficiencies may result in a condition where a single component failure in the HSTCU Mach trim circuits would cause an unsafe nose-up trim runaway.

To exclude the possibility of an unsafe trim runaway as a result of the above HSTCU design deficiencies, accomplish the following:

A. Before further flight after receipt of the initial issue of this directive, advise the flight crew to comply with the following operational restrictions and insert a copy of this directive into the airplane flight manual (AFM):

1. Use of Mach trim is prohibited.
2. If the autopilot is disengaged or inoperative, speed must be restricted to 250 kias or 0.7 Mach.

Note 1: Pending incorporation of Canadair Alert Service Bulletin A601R-27-054 (Flight Controls - Horizontal Stabilizer Control System - De-activation of the Mach Trim Engage/Disengage Switch/Light), the **MACH TRIM** caution message will be displayed on the EICAS and the Mach trim engage/disengage switch **INOP** legend will be illuminated (ON). The EICAS message can be scrolled out of view prior to take-off, but the switch **INOP** light will remain illuminated (ON).

Note 2: The restrictions required by the AFM Temporary Revision (TR) RJ/43, or later approved revisions, meet the operational requirements of this directive. Therefore, inserting a copy of TR RJ/43 or later approved revisions, in lieu of this directive, is an acceptable means of compliance.

B. For aircraft serial numbers 7003 through 7070 and 7075, at the next "A-Check" after 15 June 1995 (the effective date of AD CF-95-08R1), de-activate the HSTCU Mach trim function in accordance with Canadair Alert Service Bulletin A601R-27-054 dated 12 June 1995, or later revisions approved by the Director, Aircraft Certification Branch, Transport Canada, Ottawa.

Note: Aircraft serial numbers 7071 through 7074, and 7076 through 7112, have had the HSTCU Mach trim de-activated during production. The requirement of paragraph B above does not apply to these aircraft.

C. Within 18 months after the effective date of this directive, install the new HSTCU part number 601R92301-9 in accordance with Canadair Service Bulletin 601R-27-053 dated 27 May 1996, or later revisions approved by the Director, Aircraft Certification Branch, Transport Canada, Ottawa.

Compliance with the requirement of paragraph C of this directive constitutes a terminating action to this directive.

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

the appropriate regional office.

This revision supersedes Airworthiness Directive CF-95-08R1 issued 14 June 1995.

This directive becomes effective 3 September 1996.

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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