



No.	CF-2000-12R1	1/2
Issue Date	22 May 2002	

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-2000-12R1

Subject: British Aerospace BAe 146 - Engine Power Rollback

Effective: 28 June 2002

Revision: Supersedes Airworthiness Directive (AD) CF-2000-12, dated 11 May 2000, and UK CAA AD 003-06-96R1.

Applicability: All models of Canadian registered British Aerospace BAe 146 aircraft fitted with Honeywell (formerly AlliedSignal) ALF-502R series engines.

Compliance: Is required within 24 hours after receipt of this directive or before further flight, whichever occurs later, unless already accomplished.

Background: A Canadian registered BAe 146 aircraft experienced a power rollback on three engines during descent from 29,000 ft to 26,000 ft in icing conditions. Transport Canada AD CF-2000-12 was issued to restrict the operation of Canadian registered BAe 146 aircraft to a maximum altitude of 26,000 feet in known or forecast icing conditions. This revision has been issued to introduce terminating action for the operating limitations mandated by AD CF-2000-12.

Corrective Actions: To prevent engine power rollback during flight in icing conditions above 26,000 ft, accomplish the following:

- I. Amend the BAe 146 Aircraft Flight Manual by adding the following Limitation:

"In order to prevent uncommanded thrust reduction, flight in known or forecast icing conditions above 26,000 ft is prohibited.

In the event of inadvertent encounters with icing conditions above 26,000 ft:

- (1) Observe LIMITATIONS, POWER PLANT, ENGINE OPERATING LIMITATIONS.**
- (2) Confirm all engine anti-ice ON. Disconnect TMS and set all engines to 87% N2 and 80% N1 minimums. Descend to 26,000 ft or below using airbrake.**
- (3) Prior to selection of airframe outer wing and tail anti-ice in descent, set all engines to 90% N2 and 80% N1 minimums. Select CABIN AIR to RECIRC (if fitted). Thereafter maintain 87% N2 and 80% N1 minimums.**

For definitions of Icing Conditions see LIMITATIONS, ICE AND RAIN PROTECTION, ICING CONDITIONS."

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 (AARA) at Place de Ville, Ottawa, Ontario K1A 0N8, or 1-800-305-2059, or <http://www.tc.gc.ca/aviation/pubs/index.htm>.

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This amendment requirement can be accomplished by inserting a copy of this Directive in the BAe 146 Aircraft Flight Manual, opposite Section 2.01.1, page 5.

- II. Modification of all four engines with improved engine fan core inlet anti-ice system in accordance with Honeywell (formerly AlliedSignal) Service Bulletin (SB) ALF/LF 72-1020 Revision 3 dated 19 January 2001 and British Aerospace (BAe) SB 71-72-30473A Revision 1 dated 2 November 1998 constitutes terminating action for the operating limitations defined in paragraph I of this Airworthiness Directive.

Note: Installation of engine modifications in accordance with earlier versions of Honeywell SB 72-1020 and BAe SB 71-72-30473A meet the requirements of paragraph II of this Directive.

Authorization: For Minister of Transport



B. Goyaniuk
Chief, Continuing Airworthiness

Contact: Mr. Robin Lau, Continuing Airworthiness, Ottawa, telephone (613) 952-4461, facsimile (613) 996-9178 or e-mail laur@tc.gc.ca or any Transport Canada Centre.