



No.	CF-2001-16R1	1/2
Issue Date	3 June 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-2001-16R1
- Subject:** Bombardier DHC-8-400 - Main Landing Gear Procedure
- Effective:** 11 July 2002
- Revision:** Supersedes Airworthiness Directive CF-2001-16 issued 11 April 2001.
- Applicability:** Bombardier Inc. DHC-8 aircraft, Models 400, 401 and 402, serial number 4001 to 4055.
- Compliance:** As indicated, unless already accomplished.
- Background:** Due to manufacturing process problems combined with higher than qualified acceleration levels experienced by the main landing gear downlock proximity sensors, these sensors may fail concurrently on the same gear in the NEAR position. This failure could potentially inhibit the affected gear from extending. The indication to the flight crew from these failures is misleading.

To rectify this misleading indication, the original issue of this directive mandated an additional in-flight procedure to the approved Aircraft Flight Manual (AFM).

With improved main landing gear downlock proximity sensors being available, this directive is revised to require replacement of the sensors as a terminating action. This revised directive also updates the applicable aircraft serial numbers to account for aircraft that were fitted with improved sensors during production via Modsum 4-113330.

- Corrective Actions:**
  - A. Prior to 31 December 2002, replace the L/H and R/H main landing gear downlock proximity sensors with improved version by incorporating retrofit ModSum 4-113331. Bombardier Service Bulletin 84-32-09 dated 18 May 2001, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada provides approved instructions for incorporating ModSum 4-113331.
  - B. With either production Modsum 4-113330 or retrofit Modsum 4-113331 incorporated, the procedures previously added by Airworthiness Directive CF-2001-16, to Section 4.21 of the Aircraft Flight Manual, PSM 1-84-1A (Models 400, 401, & 402), are no longer required and are to be removed.
  - C. Inform all flight crews of this change to the AFM.

D. Accomplishment of paragraphs A, B, and C is considered terminating action to this directive.

**Authorization:** For Minister of Transport



B. Goyaniuk  
Chief, Continuing Airworthiness

**Contact:** Mr. Philip Tang, Continuing Airworthiness, Ottawa, telephone (613) 952-4379, facsimile (613) 996-9178 or e-mail [tangp@tc.gc.ca](mailto:tangp@tc.gc.ca) or any Transport Canada Centre.