



No.	<b>CF-2004-26</b>	1/2
Issue Date	<b>2 December 2004</b>	

# 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-2004-26
- Subject:** Bombardier DHC- 8 Series 100, 200, 300 - Fluorescent Lighting System
- Effective:** 10 January 2005
- Applicability:** Bombardier Inc. DHC-8 Aircraft, Models 102, 103, 106, 201, 202, 311, 314 and 315 serial numbers 003 to 407, 409 to 412 and 414 to 437.with pre-Hunting interiors only.
- Compliance:** When indicated, unless already accomplished.
- Background:** Numerous service difficulty reports have been received of fluorescent lamp holder damage due to overheating. The heating results from arcing between the pins of the fluorescent tube and the lamp holder contacts if the tube is not properly seated during installation. The resulting fumes and traces of visible smoke can be of concern to passengers and crew.

**Corrective Actions:** **Part A. Approved Maintenance Program Revision**

Within 60 days after the effective date of this directive, amend the Transport Canada approved maintenance schedule by incorporating visual inspection tasks for the cabin, ceiling and lavatory fluorescent light tube assemblies as introduced by the Temporary Revisions (TR) of the DHC-8 Maintenance Program Manuals specified below:

A/C Series	PSM No.	Temp. Rev. No.	Task No.	Task Description
100	1-8-7	TR MRB-146	3320/01	Detailed visual inspection of Cabin fluorescent tube assemblies at "C" check
200	1-82-7	TR MRB 2-24		
300	1-83-7	TR MRB 3-155		
100	1-8-7	TR MRB-146	3320/02	Detailed visual inspection of side-wall fluorescent tube assemblies at "C" check
200	1-82-7	TR MRB 2-24		
300	1-83-7	TR MRB 3-155		
100	1-8-7	TR MRB-146	3320/03	Detailed visual inspection of lavatory fluorescent tube assemblies at "C" check
200	1-82-7	TR MRB 2-24		
300	1-83-7	TR MRB 3-155		

**Part B. Installation of Ballast Resistors**

As of the effective date of this directive, ballast P/N BA08006-1 shall not be installed on any aircraft as a replacement ballast. Replacement of ballast P/N BA08006-1 with the new ballast P/N BR9000-21 may be achieved in accordance with Bombardier Service Bulletin (SB) 8-33-51 (Modsum 8Q101287), dated 16 August 2002, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.



### **Part C. Initial Inspection**

Carry out the initial visual inspection of the cabin, ceiling and lavatory fluorescent light tube assemblies (pre-Modsum 8Q101287) at the next "C" check or within 36 months of the effective date of this directive, whichever is reached first.

**Authorization:** For Minister of Transport



B. Goyaniuk  
Chief, Continuing Airworthiness

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