



No.	CF-2005-35	1/2
Issue Date	1 September 2005	

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-2005-35
- Subject:** Junction Boxes – Leach TDH-Series Relays Malfunction
- Effective:** 3 October 2005
- Applicability:** Bombardier Inc. Model CL-600-2B19; serial numbers 7003 and subsequent.
- Compliance:** Prior to accumulating 5500 hours air time from the effective date of this directive or 36 months after the effective date of this directive, whichever is reached first, unless already accomplished.
- Background:** Leach, the manufacturer of electrical relays used in a number of aircraft systems, has reported a manufacturing defect in a batch of relays that may malfunction in-service. The systems affected include the passenger oxygen deployment system, the thrust reverse control system, and the APU fire detection, warning and extinguishing system. No in-service problems have been identified as being caused by malfunctioning relays; however, the availability of emergency equipment could be adversely affected if the suspect relays are not replaced.
- Corrective Actions:**
1. In accordance with Bombardier Service Bulletin (SB) 601R-24-118, Revision A, dated 08 August 2005, or later revisions of this SB approved by Chief, Continuing Airworthiness, carry out the following:
 - (a) Visually inspect the identified Leach TDH-Series relays – K4WQ and K5WQ, K3QA and K4QA, K4WG, K1CN and K2CN - for the manufacturer's date codes listed in the applicable part of the Accomplishment Instructions of the above referenced SB.
 - (b) If the manufacturer's date code on a relay is included in the identified range of suspect relays, replace the relay with an identified serviceable relay, prior to further flight.
 2. As of the effective date of this directive, no person shall install in any aircraft, a Leach TDH-series relay - K4WQ and K5WQ, K3QA and K4QA, K4WG, K1CN and K2CN - that has a manufacturer's date code in the identified suspect range listed in the above referenced SB.
 3. For aircraft serial numbers 7003 through 7363, and 7889 and subsequent that were manufactured without suspect Leach TDH-series relays installed, it is permissible to meet the inspection requirements in paragraph 1.(a) of this directive by confirming, through a review of the maintenance records, that no Leach TDH-Series relays have been replaced since the aircraft was produced.
 4. Aircraft that were previously inspected and had the suspect Leach TDH-Series relays removed in accordance with SB 601R-24-118, dated 03 January 2005, also meet the requirements of paragraph 1 of this directive.

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 www.tc.gc.ca/civilaviation/communications/centre/address.asp



Authorization: For Minister of Transport



R. William Taylor
Acting Chief, Continuing Airworthiness

Contact: Mr. Ian McLellan, Continuing Airworthiness, Ottawa, telephone 613 952-4362, facsimile 613 996-9178 or e-mail mclelli@tc.gc.ca or any Transport Canada Centre.