



No.	CF-2009-44	1/2
Issue Date	8 December 2009	

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) 521 Division X**. 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), National Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

Number: CF- 2009-44

Subject: Emergency Locator Transmitter – Potential Failure To Transmit The Required 406MHz Coded Signal

Effective: 31 December 2009

Applicability: Honeywell ASCa. Inc Emergency Locator Transmitter (ELT) Model RESCU 406S as follows:

Part Number 1151324-1 Series 1, 2, 3, 4, 5, and 6, All serial numbers (Note 1)
 Part Number 1151324-1Mxxx Series 1, 2, 3, 4, 5, and 6, All serial numbers (Notes 1 and 2)

Part Number 1152794-1Mxxx Series 1, All serial numbers (Note 2)
 Part Number 1152890-1Mxxx Series 1, All serial numbers (Note 2)
 Part Number 1152892-1Mxxx Series 1, All serial numbers (Note 2)
 Part Number 1153046-1Mxxx Series 1, All serial numbers (Note 2)

Notes:

1. Includes P/N 1151324-1 originally manufactured by Allied Signal Aerospace Canada.
2. "xxx" represents any International Telecommunication Union country code.

Compliance: As indicated below, unless already accomplished.

Background: ELT Model RESCU 406S transmits, upon activation, a programmed digital message (coded) signal at 406 MHz frequency that contains information related to the ELT and/or the aircraft on which it is carried. Two ELT units undergoing verification testing reportedly failed to transmit the coded signal at the required 406 MHz frequency.

The manufacturer investigated the problem and identified the cause as improper grounding of the cover to the internal frame of the ELT unit. This situation is not detectable using either the factory's acceptance test procedures or the subsequent return-to-service test because the required grounding is provided by the use of an antenna simulator. The manufacturer believes that all ELT Model RESCU 406S with part numbers identified in this directive should be considered suspect because these units share the same design feature and assembly procedures.

The inability of the affected ELT units to transmit the coded signal at the required 406MHz frequency does not conform to the design standards to which the ELT was approved. This directive is issued to correct the identified non-conformity issue, which, if uncorrected, can expose aircraft occupants to unnecessary safety risk during an actual emergency situation.

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



**Corrective
Actions:**

1. Prior to 1 July 2011, modify all installed ELT units, or replace with ELT units, that have been modified, in accordance with Honeywell Service Bulletin 1151324-25-39, Rev. 1 dated 14 July 2009, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada. ELT units that incorporated Honeywell Service Bulletin 1151324-25-39 at Rev. 0, dated 26 June 2009, prior to this Directive, fulfill the requirement of this Directive and no additional action is required.
2. After the effective date of this directive, no person shall install on an aircraft, a replacement ELT Model RESCU 406S unit whose Part Numbers are listed in this directive unless that ELT unit has incorporated Honeywell Service Bulletin 1151324-25-39 at either Rev. 0 dated 26 June 2009 or Rev. 1 dated 14 July 2009, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Authorization: For Minister of Transport, Infrastructure and Communities

ORIGINAL SIGNED BY

Derek Ferguson
Chief, Continuing Airworthiness

Contact: Mr. Eric S. Lucas, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail [CAW WEB Feedback@tc.gc.ca](mailto:CAW_WEB_Feedback@tc.gc.ca) or any Transport Canada Centre.