



No.	CF-2005-11	1/1
Issue Date	22 April 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-2005-11

**Subject:** Replacement of Fuel Manifold Adapter Assemblies

**Effective:** 16 May 2005

**Applicability:** All Pratt & Whitney Canada (P&WC) PW124B, PW127, PW127E, and PW127F engines that have Service Bulletin (SB) 21607\* incorporated; and  
All PW127G, and PW127H engines.

\*All versions of D.O.T./D.A.A. approved SB 21607.

The above engines are installed on, but not limited to, Aerospatiale ATR 42 and ATR 72, CASA C295, and Ilyushin IL-114-100 aircraft.

**Compliance:** As detailed below, unless already accomplished.

**Background:** Affected fuel manifold adapter assemblies can be installed with incorrect orientation of the fuel injectors. This may lead to fuel leaks. Several improperly installed manifold adaptor assemblies have resulted in engine in-flight shutdowns.

P&WC Service Bulletin (SB) 21705 contains instructions to replace the fuel manifold adapter assemblies and the fuel manifold hoses with improved configurations to prevent improper installation, in order to eliminate the safety hazard.

**Corrective Action:** **PART A. Installed Fuel Manifold Adapter Assemblies**

Within 500 flight hours, or not more than 3 months after the effective date of this directive, replace the fuel manifolds adapter assemblies and fuel manifold hoses with improved hardware as per P&WC Service Bulletin (SB) 21705, Revision 4, dated 30 March 2005, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

**PART B. Fuel Manifold Adapter Assemblies Not Installed**

Within 3 months after the effective date of this directive, return all serviceable fuel manifold adapter assemblies not installed or held as spares as per paragraph 2 D of P&WC SB 21705 in order to replace them with modified units.

NOTE (applies to Parts A & B):

Compliance with any of the previous versions of P&WC's SB 21705 prior to the effective date of the directive satisfy the requirements of SB 21705, Revision 4, mandated by this directive.

**Authorization:** For Minister of Transport

R. William Taylor  
Acting Chief, Continuing Airworthiness

**Contact:** Mr. Luc Deniger, Continuing Airworthiness, Ottawa, telephone 613 952-5385, facsimile 613 996-9178 or e-mail denigel@tc.gc.ca or any Transport Canada Centre.

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](http://www.tc.gc.ca/civilaviation/communications/centre/address.asp)

