



No.	<b>CF-2004-28</b>	1/2
Issue Date	<b>9 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-2004-28

**Subject:** Pratt & Whitney Canada PW535A Engines – HFC Ratio Unit Setscrew Adjustment

**Effective:** 20 December 2004

**Applicability:** Pratt & Whitney Canada (P&WC) PW535A engines prior to serial number DC0241 with hydromechanical fuel control (HFC) P/N 819735-4, 819735-5, or 819735-6.

The above engines are installed on, but not limited to, Cessna model 560 Citation (Encore) aircraft.

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

**Background:** Incidents of PW535A engines experiencing lack of response to the power lever input due to an incorrect adjustment of the hydromechanical fuel control (HFC) ratio unit setscrew during the engine acceleration time setting have been reported. Two events resulted in in-flight shut-downs (IFSD).

P&WC has issued Alert Service Bulletin (ASB) A30257R1 to inspect and verify proper adjustment of the ratio unit setscrew adjustment of installed HFC units in the field. P&WC Engine Maintenance Manual (MM) 3044952 addresses ASB requirements on installation of exchanged or spare HFC's (reference: MM 3044952, Section 71-00-00, Power Plant - Adjustment/Test, Para 11).

**Corrective Action:** **PART A. Installed Hydro-mechanical Fuel Control (HFC) Units**

To ensure the HFC, P/N 819735-4, 819735-5, or 819735-6, ratio unit setscrew is properly adjusted, accomplish the following within 50 flight hours after the effective date of this directive:

1. Determine if the HFC Serial Number is listed in Table 1 of P&WC ASB A30257R1, dated 03 December 2004, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada:
  - a) If the HFC's serial number is listed, proceed to Paragraph 2 of this directive; or
  - b) If the HFC's serial number is not listed, this Airworthiness Directive is not applicable.
2. Ensure the HFC ratio unit setscrew is properly adjusted by accomplishing the instructions contained in Paragraphs 3 B, C, D, E, F, G, and H of P&WC ASB A30257R1 dated 03 December 2004, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

## **PART B. HFC Units not Installed**

For HFC units not installed identified in Table 1 of ASB A30257R1 or later revisions and retained as spares, compliance with ASB A30257R1 is to be accomplished by performing the procedures defined in P&WC Engine Maintenance Manual 3044952 revision number 14 or later revisions (reference: Section 71-00-00 Power Plant – Adjustment/Test, Para. 11) when the HFC is installed on the engine.

**Note:** (This note applies to parts A & B) Compliance with the original version of P&WC's ASB A30257 prior to the effective date of the directive satisfies the requirements of ASB A30257, Revision 1, mandated by this directive.

**Authorization:** For Minister of Transport



for B. Goyaniuk  
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](mailto:denigel@tc.gc.ca) or any Transport Canada Centre.