



No.	<b>CF-2003-06</b>	1/2
Issue Date	6 February 2003	

# 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-2003-06

**Subject:** Pratt & Whitney Canada (P&WC) PW206A and PW206E Engines  
High Pressure Turbine Blade Shift and Compressor Turbine Blade Shift

**Effective:** 18 March 2003

**Applicability:** All PW206A and PW206E engines installed on MD Helicopters Inc. Model MD900 helicopters.

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

**Background:** There have been several occurrences involving PW 206 powered MD 900 helicopters where power turbine (PT) blade shifting resulted in an in-flight engine fire warning and a subsequent emergency landing.

P&WC has issued Service Bulletin (SB) 28069 (for the compressor turbine – CT) and SB 28239 (for the PT) to introduce a new solid rivet and collar that provide a greater retention strength for the PT & CT blades. In addition, P&WC Alert Service Bulletin (ASB) 28242 was issued to introduce repetitive PT and CT blade shift inspections for the PW206A and PW206E engines that did not incorporate SB 28069 and SB 28239.

**Corrective Actions:**

1. Within 25 hours air time or 30 days following the effective date of this directive, whichever occurs first, perform the CT and PT blade shift inspections in accordance with P&WC SB No. 28242, dated October 1, 2002, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
2. Repeat the inspection in accordance with paragraph (1) of this directive at 50, 100 and 200 hours air time following the effective date of this directive.
3. After the 200 hours inspection in accordance with paragraph (2) of this directive, repeat the inspection in accordance with paragraph (1) of this directive at intervals not exceeding 300 hours air time.
4. Replace the CT blade retaining rivets with the solid rivets and collar, and replace the No. 3 and No. 4 bearing air seal rotors in accordance with P&WC SB 28069 Revision No. 4, dated December 27, 2000, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, at the earliest of:
  - (a) the next engine shop visit when access is available to the necessary sub-assembly (i.e. modules, accessories, components, or build group); or
  - (b) the next engine overhaul; or
  - (c) 31 December 2009

**Note 1:** Compliance with paragraph (4) of this directive constitutes terminating action for the CT blade inspection requirements of paragraphs (1), (2), and (3) of this directive.

**Note 2:** Compliance with previous revisions of P&WC SB 28069 prior to the effective date of this directive satisfies the requirements of paragraph (4) of this directive.

5. Replace the PT blade retaining rivets with the solid rivet and collar in accordance with P&WC SB 28239, dated September 5, 2002, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada, at the earliest of:

- (a) the next engine shop visit when access is available to the necessary sub-assembly (i.e. modules, accessories, components, or build group); or
- (b) the next engine overhaul; or
- (c) 31 December 2009.

**Note 3:** Compliance with paragraph (5) of this directive constitutes terminating action for the PT blade inspection requirements of paragraph (1), (2) and (3) of this directive.

**Authorization:** For Minister of Transport



R. William Taylor  
Acting Chief, Continuing Airworthiness

**Contact:** Mr. Robin Lau, Continuing Airworthiness, Ottawa, telephone (613) 952-4461, facsimile (613) 996-9178 or e-mail [laur@tc.gc.ca](mailto:laur@tc.gc.ca) or any Transport Canada Centre.