



AIRWORTHINESS DIRECTIVE

This Airworthiness Directive (AD) is issued pursuant to Canadian Aviation Regulation (CAR) 521.427. No person shall conduct a take-off or permit a take-off to be conducted in an aircraft that is in their legal custody and control, unless the requirements of CAR 605.84 pertaining to ADs are met. Standard 625 - Aircraft Equipment and Maintenance Standards Appendix H provides information concerning alternative means of compliance (AMOC) with ADs.

Number:

CF-2025-44

Effective Date:

12 September 2025

ATA:

72

Type Certificate:

E-29

Subject:

PW150A Full Authority Digital Electronic Control (FADEC) software upgrade to minimize risk of aircraft jet pipe fire

Applicability:

Pratt and Whitney Canada (P&WC) PW150A engines, all serial numbers.

Compliance:

As indicated below, unless already accomplished.

Background:

Following a recent engine unrecoverable power loss event, a new potential aircraft hazard has been identified. The fuel could not be completely burned in the combustor due to engine air flow characteristics and was carried into the aircraft jet pipe. The fuel air mixture re-ignited leading to fire causing jet pipe thermal damage.

Under certain unrecoverable power loss conditions, the engine may not completely burn the amount of fuel delivered to the combustor. The rich fuel-air mixture exiting the engine may re-ignite in the aircraft jet pipe creating potential thermal damage.

To address unburned fuel being potentially released into the aircraft jet pipe resulting in fire, PWC has released a Service Bulletin (SB) No. PW150-73-35381 that requires installation of a new version of FADEC software.

This AD mandates the installation of the new version of FADEC software on all PW150A engines with affected parts currently installed.

Corrective Actions:

For the purpose of this AD, the following definition applies:

Affected Part: FADEC part numbers (P/N) 819300-B-010, 819300-7-009, 819300-8-009, 819300-9-009, 819300-A-009, 819300-B-009, 819300-C-009, 819300-7-010, 819300-8-010, 819300-9-010, 819300-A-010 and 819300-C-010.

Within 3000 hours air time or 14 months from the effective date of this AD, whichever occurs first, for all PW150A engines equipped with FADEC affected P/N, accomplish the FADEC software upgrade in accordance with the procedure in Section 3 Accomplishment Instructions of the P&WC SB No. PW150-73-35381 initial issue dated 09th June 2025 or later versions as approved by the Chief, Continuing Airworthiness, Transport Canada (TC).

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 29 August 2025

Contact:

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