



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

**MINISTRY OF TRANSPORT AND COMMUNICATIONS
CIVIL AVIATION DEPARTMENT**

Male'
Republic of Maldives

AIRWORTHINESS DIRECTIVE

No. CAD/PW123/1
13 February 1997

APPLICABILITY

All models of Pratt & Whitney Canada (P&WC) PW100 Series engines.

SUBJECT

Engine fuel leakage.

REFERENCE

Transport Canada - Airworthiness Directive no. CF-96-22.

REASONS

There have been several incidents of PW100 Series engine fuel leaks which resulted in either in-flight shut-downs or fire warnings. The majority of these fuel leaks have occurred shortly after fuel manifold maintenance actions, and the fuel lock plates have been considered a contributing factor. P&WC has determined that the current transfer tube lock plates are sensitive to installation errors and can be bent out of position. P&WC Service Bulletin (SB) 21373 introduces a new lock plate which will prevent their incorrect installation and will hold the transfer tubes in position.

COMPLIANCE

Action and Compliance required:

- a. when the engine or module is at a maintenance base that can do the modifications specified in paragraph 1 and 2, regardless of the scheduled maintenance action or reason for engine removal; or
- b. at the next fuel nozzle change; or
- c. before 30th November 1998;

whichever occurs first following the effective date of this directive.



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ACTION

P&WC has determined that the current transfer tube lock plates are sensitive to installation errors and can be bent out of position. P&WC Service Bulletin (SB) 21373 introduces a new lock plate which will prevent the incorrect installation and will hold the transfer tubes in position.

To minimise the risk of an engine fuel leak, accomplish the following;

1. Install fuel manifold transfer tubes according to P&WC SB 21077R7 (Revision 7) dated 10 October 1996, and new lock plates according to P&WC SB 21373R3 (Revision 3) dated 11 October 1996, or later revisions or superseding service bulletins that meet the intent of these service bulletins and which are "DOT Approved".

Note: Performed packings, part numbers ST3367-009 and ST3367-010, introduced by P&WC SB 21364R1 (Revision 1) dated 28 April 1995, are the only packings approved by Transport Canada for use on PW 100 Series engines.

2. Perform a leak check in accordance with the applicable maintenance manual after complying with paragraph 1 above.

EFFECTIVITY

This Directive becomes effective from 13th February 1997.

Mahmood Razeer
DIRECTOR OF CIVIL AVIATION