

Transport
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No. CF-90-10

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.

CF-90-10 DE HAVILLAND

Applies to all Boeing of Canada, de Havilland Division, Model DHC-6 Twin Otter aircraft.

Compliance is required within 25 flight hours or five calendar days, whichever occurs first, after the effective date of this directive, unless already accomplished within the previous 21 calendar days.

Fatigue failure of an elevator pushrod end has been reported on an aircraft in service. The failure occurred in the root of the first thread of one of the rod ends, adjacent to the end lug. De Havilland Illustrated Parts Catalogue, section 27-30-00, page 0, figure 1, item 30 illustrates the location of the rod.

To detect cracked rod ends or other anomalies, and prevent recurrence of rod end failure, accomplish the following:

1. Remove the pushrod from the aircraft and remove the rod ends from both ends of the pushrod.
2. Visually inspect the pushrods and rod ends to ensure they are not bent, corroded or damaged, and that the rod end bearings are free to rotate.
3. Thoroughly clean the rod ends and perform a visual inspection of the shank threads for cracks, first using at least a 10-power magnifying glass and a strong light, followed by a high sensitivity fluorescent penetrant inspection.
4. Pushrods or rod ends found bent, corroded, cracked or seized during the inspections at 2 or 3 above are to be replaced with serviceable parts before further flight. Retain removed parts for possible future examination.
5. Within 5 calendar days from the removal of any discrepant parts from the aircraft, advise Transport Canada by writing directly to:

S.R. Didrikson

Chief, Continuing Airworthiness

Transport Canada (AARDG)

200 Kent Street

Ottawa, Ontario K1A 0N8

Tel: (613) 952-4356

Fax: (613) 996-9178

Alternate means of compliance with the requirements of this directive may be used only if approved by the Director, Airworthiness Branch, Transport Canada, Ottawa. Any application should be made to the appropriate regional office.

This directive becomes effective 14 May 1990.



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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 <http://www.tc.gc.ca/civilaviation/communications/centre/address.asp>.

24-0022 (01-2001)



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