



No.	CF-1999-10R2	1/2
Date	12 September 2000	

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 AN 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**.

CF-1999-10R2 BOMBARDIER

Applies to Bombardier Inc. (formerly de Havilland) DHC-8 Series 100, 200 and 300 aircraft, serial numbers 3 to 555.

Compliance is required as indicated, unless already accomplished.

Corrosion of flap carriage hook roller shafts P/N 85750362-103 and replacement shafts P/N 85750362-105 has been found on several in-service aircraft. An investigation by Bombardier has identified deficiencies in the manufacturing process that may have resulted in inadequate corrosion protection of some hook roller shafts. If not addressed, cracks initiating from the corrosion sites on these shafts can degrade the structural integrity of the flap system.

This directive has been revised to add flap carriage hook roller shafts P/N 85750362-105 to the inspection and replacement requirements of this directive.

To address the potential for failure of flap carriage hook roller shafts, accomplish the following:

- Implement a detailed visual inspection of the flap carriage hook roller shafts P/N 85750362-103 and/or P/N 85750362-105 for condition, in accordance with the inspection schedule introduced by the applicable Temporary Revision (TR) of the Airworthiness Limitations List (AWL) of the DHC-8 Maintenance Manual as detailed below:

(a) Series 100 aircraft	PSM 1-8-7: TR AWL-75 and AWL-76	dated 14 July 2000.
(b) Series 200 aircraft	PSM 1-82-7: TR AWL 2-19	dated 14 July 2000.
(c) Series 300 aircraft	PSM 1-83-7: TR AWL 3-83	dated 14 July 2000.
- Prior to further flight, replace any flap carriage hook roller shafts that are determined to be cracked.
- Within five (5) years or 20,000 flight cycles after the effective date of this directive, whichever occurs first, replace all flap carriage hook roller shafts P/N 85750362-103 and P/N 85750362-105 with Post Mod 8Q101103 roller shafts P/N 85750362-107. Installation of Post Mod 8Q101103 roller shafts P/N 85750362-107 provides terminating action to the inspection requirements for the Pre Mod 8Q100429 roller shafts P/N 85750362-103 and the Post Mod 8Q100429 roller shafts P/N 85750362-105.
- Following installation of the Post Mod 8Q101103 roller shafts P/N 85750362-107, comply with the Structural Inspection Program for the Mod 8Q101103 roller shafts as introduced by the Temporary Revisions detailed in paragraph 1 above.

This revision supersedes Airworthiness Directive CF-99-10R1 issued 21 December 1999.

This directive becomes effective on 20 October 2000.

For Minister of Transport



B. Goyaniuk
Chief, Continuing Airworthiness

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