



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-2020-39

Effective Date:

28 October 2020

ATA:

54

Type Certificate:

A-142

Subject:

Nacelles/Pylons – Main Landing Gear Side Brace Fitting to A-frame Joint – Fastener Holes Not Cold-worked

Applicability:

De Havilland Aircraft of Canada Limited (formerly Bombardier Inc.) model DHC-8-400, -401 and -402 aeroplanes, serial numbers 4081 through 4591.

Compliance:

Within 48 months or 8000 hours air time from the effective date of this AD, or before accumulating 40 000 total flight cycles, whichever occurs first, unless already accomplished.

Background:

It has been discovered that a number of nacelle A-frames were not manufactured in accordance with engineering drawings. The holes in the side brace sub-assemblies were not cold-worked as required. This condition, if not corrected, may result in cracking of the A-frame bottom flange and subsequently lead to main landing gear (MLG) collapse.

This AD mandates the removal of the fasteners on the nacelle A-frame side brace sub-assemblies, cold-working the holes, and the installation of oversize fasteners in order to eliminate the risk of MLG collapse.

Corrective Actions:

Remove the fasteners on the nacelle A-frame side brace sub-assemblies, cold-work the holes and install oversize fasteners in accordance with Section 3.B. Parts A and B of the Accomplishment Instructions of Service Bulletin 84-54-32, Initial Revision, dated 10 October 2019, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 14 October 2020

Contact:

Marie-Claude Cardinal, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.