



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) to ADs.

Number:

CF-2016-08

Effective Date:

30 March 2016

ATA:

27

Type Certificate:

A-131

Subject:

Flight Controls – Horizontal Stabilizer Trim Actuator – Attachment Pins and Trunnions Not Serialized

Replacement:

Supersedes AD CF-2011-45, issued 19 December 2011.

Applicability:

Bombardier Inc. model CL-600-2B19 aeroplanes, serial numbers 7003 through 8113.

Compliance:

As indicated below, unless already accomplished.

Background:

After the issuance of AD CF-2011-45, it was discovered that the AD did not address all affected Horizontal Stabilizer Trim Actuator (HSTA) attachment pins and trunnions. In addition, it is possible that aeroplanes having incorporated the Initial Issue or Revision A, of Bombardier Service Bulletin (SB) 601R-27-160 used incorrect attachment hardware to re-install the HSTA attachment pins or trunnions.

This AD mandates the inspection and rectification, as required, and the re-identification, as required, of the HSTA pins and trunnions and incorporation of a revised Airworthiness Limitation task.

Corrective Actions:

A. Applicable to aeroplanes that have not previously incorporated Bombardier SB 601R-27-160, Initial Issue, dated 29 September 2011, or Revision A, dated 3 October 2012, or Revision B, dated 20 February 2015, or Revision C, dated 3 May 2015, or Revision D, dated 22 October 2015:

Within 5000 hours air time or within 5 years, from the effective date of AD CF-2011-45 (9 January 2012), or prior to reaching 40 000 total flight cycles, whichever occurs first, inspect, rectify as required, and re-identify the HSTA pins and trunnions in accordance with the Accomplishment Instructions of section 2, Part A, of Bombardier SB 601R-27-160, Revision D, dated 22 October 2015, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Generic repair engineering orders (REO) 601R-27-42-008, Revision A, or later revisions approved by Transport Canada, and REO 601R-27-42-007, Revision B, or later revisions approved by Transport Canada, both dated 29 October 2014, can be used to repair any applicable damage on the HSTA pins and trunnions found during the incorporation of the SB mentioned in paragraph A of this AD.

If damage to the HSTA pin or trunnion cannot be repaired in accordance with the above-mentioned REOs, replace the pin or trunnion in accordance with the Accomplishment Instructions of section 2, Part A, of the Bombardier SB 601R-27-160, Revision D, dated 22 October 2015, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

For any deviations to the Accomplishment Instructions of the SB mentioned in paragraph A of this AD, contact the Bombardier Customer Response Center for an approved disposition. The approved disposition must specifically reference this AD.

B. Applicable to aeroplanes that have previously incorporated Bombardier SB 601R-27-160, Initial Issue, dated 29 September 2011, or Revision A, dated 3 October 2012, and have not incorporated either Revision B, dated 20 February 2015, or Revision C, dated 3 May 2015, or Revision D, dated 22 October 2015:

Within 9600 hours air time or five (5) years, whichever occurs first, from the effective date of this AD, inspect and rectify, as required, the HSTA pins and trunnions in accordance with the Accomplishment Instructions of section 2, Part B of Bombardier SB 601R-27-160, Revision D, dated 22 October 2015, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Generic repair engineering orders (REO) 601R-27-42-008, Revision A, or later revisions approved by Transport Canada, and REO 601R-27-42-007, Revision B, or later revisions approved by Transport Canada, both dated 29 October 2014, can be used to repair any applicable damage on the HSTA pins and trunnions found during the incorporation of the SB mentioned in paragraph B of this AD.

If damage to the HSTA pin or trunnion cannot be repaired in accordance with the above-mentioned REOs, replace the pin or trunnion in accordance with the Accomplishment Instructions of section 2, Part B, of the Bombardier SB 601R-27-160, Revision D, dated 22 October 2015, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

For any deviations to the Accomplishment Instructions of the SB mentioned in paragraph B of this AD, or if an HSTA pin or trunnion does not have a serial number or a Non-Conformance Report part number, contact the Bombardier Customer Response Center for an approved disposition. The approved disposition must specifically reference this AD.

C. Revision to the Maintenance Schedule:

Within 30 days from the effective date of this AD, amend the Transport Canada approved maintenance schedule by incorporating the structural life limit for the HSTA trunnion as introduced by the Maintenance Requirement Manual (MRM) Temporary Revision (TR) 2B-2245, dated 17 October 2014.

Compliance in accordance with superseding TRs or later revisions of the Airworthiness Limitations section of the MRM, approved by Transport Canada, also satisfies the requirements of paragraph C of this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 16 March 2016

Contact:

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