



# 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-2016-35

**Effective Date:**

30 November 2016

**ATA:**

36

**Type Certificate:**

A-131

**Subject:**

Pneumatic – Failure of High Pressure Bleed Air Duct Shrouds

**Applicability:**

Bombardier Inc. model CL-600-2E25 aeroplanes, serial numbers 19001 through 19048.

**Compliance:**

As indicated below, unless already accomplished.

**Background:**

It is possible for the shrouds of the High Pressure (HP) bleed air ducts located in the main wheel wells and overwing areas to deteriorate and consequently, their maximum permitted leakage rate could be exceeded. If a significant bleed air leak is not sensed by the detection system, hot air impingement may cause damage to the adjacent structure and system components or create a fire hazard.

This AD is issued to mandate a modification of the bleed-air duct and detection system, as well as a revision of the Airworthiness Limitation tasks to correspond with this modification.

**Corrective Actions:**

**Part 1 – Modification of Bleed Air System**

Within 6600 hours air time, 32 months, or at the next 10 000 flight hours scheduled maintenance check, whichever comes first, from the effective date of this AD, modify the bleed-air duct and detection system in accordance with Bombardier Service Bulletin (SB) 670BA-36-022, Revision A, dated 16 September 2016, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Accomplishment of Bombardier SB 670BA-36-022, Initial Issue, prior to the effective date of this AD, also meets the intent of Part 1 of this AD.

**Part 2 – Revision of Maintenance Requirements**

Within 30 days from the effective date of this AD, amend the Transport Canada approved maintenance schedule to incorporate tasks as found in the Airworthiness Limitations revisions listed in Table A below:

| Temporary Revision | Task Number  | Maintenance Requirements Manual (MRM) Part 2 Section | Revision Date  |
|--------------------|--------------|------------------------------------------------------|----------------|
| ALI-0553           | 25-85-00-101 | 1-25                                                 | 19 August 2016 |
| ALI-0554           | 36-20-00-101 | 1-36                                                 | 19 August 2016 |
| ALI-0555           | 36-20-00-102 | 1-36                                                 | 19 August 2016 |
| ALI-0556           | 28-12-00-601 | 4-28                                                 | 19 August 2016 |
| ALI-0557           | 28-12-00-602 | 4-28                                                 | 19 August 2016 |

Table A

Compliance with later revisions of the above-mentioned tasks in the Time Limits/Maintenance Checks (TLMC) manuals, approved by Transport Canada also satisfies the requirements of Part 2 of this AD.

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Rémy Knoerr  
Chief, Continuing Airworthiness  
Issued on 16 November 2016

**Contact:**

Adil Chaudhry, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail [AD-CN@tc.gc.ca](mailto:AD-CN@tc.gc.ca) or any Transport Canada Centre.