



# AIRWORTHINESS DIRECTIVE

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*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-2017-14

**Effective Date:**

5 May 2017

**ATA:**

32

**Type Certificate:**

A-131

**Subject:**

Landing Gear – Failure of Main Landing Gear Shimmy Damper Belleville Washers

**Applicability:**

Bombardier Inc. model CL-600-2C10, CL-600-2D15, CL-600-2D24 and CL-600-2E25 aeroplanes.

**Compliance:**

Within 60 days from the effective date of this AD, unless already accomplished.

**Background:**

It has been found that Belleville washers installed on the Main Landing Gear (MLG) Shimmy Damper may fail in fatigue. A failed washer segment migrating into the piston cavity may interfere with piston travel. As a result, shimmy damper performance would be compromised, MLG shimmy could occur and potentially lead to a MLG failure.

As a result of this investigation, a restoration task has been added for Belleville washers replacement at 20 000 flight cycles, during MLG overhaul. For aeroplanes that have passed the 20 000 flight cycle threshold, a phase-in period is defined.

This AD is issued to mandate the Maintenance Review Board (MRB) revised task for the affected aeroplanes models.

**Corrective Actions:**

Amend the Transport Canada approved maintenance schedule to incorporate MRB task number 320100-229 introduced by Bombardier CRJ700/705/900/1000 Maintenance Requirements Manual (MRM) – Part 1, CSP B-053, Revision 16, dated 25 April 2016.

Incorporation of Temporary Revision MRB-0070, dated 20 October 2015, prior to the effective date of this AD, also satisfies the requirements of this AD.

Compliance with later revisions of the above-mentioned tasks in the MRM, approved by Transport Canada also satisfies the requirements of this AD.

**Authorization:**

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr  
Chief, Continuing Airworthiness  
Issued on 21 April 2017

**Contact:**

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