



No.	CF-2014-01	1/2
Issue Date	3 January 2014	

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) 521 Division X**. Pursuant to **CAR 605.84** and the further details of **CAR Standard 625, Appendix H**, the continuing airworthiness of a Canadian registered 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**.

This AD has been issued by the Continuing Airworthiness Division (AARDG), National Aircraft Certification Branch, Transport Canada, Ottawa, telephone 613 952-4357.

Number: CF-2014-01

Subject: Flap Hinge Box – Non-Conforming Forward Lugs Edge Distance

Effective: 17 January 2014

Applicability: Bombardier Inc. aeroplanes:

Model CL-600-1A11 (600), serial numbers 1004 through 1085;
Model CL-600-2A12 (601 Variant), serial numbers 3001 through 3066;
Model CL-600-2B16 (601-3A/3R Variant), serial numbers 5001 through 5194;
Model CL-600-2B16 (604 Variant), serial numbers 5301 through 5665 and 5701 through 5953.

Compliance: As indicated below, unless already accomplished.

Background: The aeroplane manufacturer has determined that the flap hinge box forward lugs edge distance may not conform to the engineering drawings. Non-conforming flap hinge box forward lugs may result in premature fatigue cracking.

Failure of the lugs could lead to the detachment of the flap hinge box and consequently the detachment of the flap surface. The loss of a flap surface could adversely affect the continued safe operation of the aeroplane.

This AD mandates the incorporation of new Time Limits/Maintenance Checks (TLMC) Airworthiness Limitations (AWL) tasks, and the measurement of the forward lug edge distance of each flap hinge-box and rectification as required.

Corrective Actions: A. Within 60 days from the effective date of this AD, amend the Transport Canada approved maintenance schedule by incorporating the applicable TLMC AWL task, as introduced by the following applicable TR(s) or TLMC manual revisions, all issued on 8 July 2013:

Model	TLMC Manual	Chapter 5 Task No.	TR No. or TLMC Revision
600	PSP 605	57-40-00-160	TR 5-157
		57-40-00-186	TR 5-158
601	PSP 601-5	57-40-00-175	TR 5-262
		57-40-01-101	
601-3A/3R	PSP 601A-5	57-40-00-174	TR 5-275
		57-40-01-101	TR 5-276
604	CL-604	57-50-00-121	Revision 20
		57-52-01-102	
604	CL-605	57-50-00-121	Revision 8
		57-52-01-102	

Pursuant to **CAR 202.51** the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address.

To request a change of address, contact the **Civil Aviation Communications Centre (AARC)** at Place de Ville, Ottawa, Ontario K1A 0N8, or 1-800-305-2059, or www.tc.gc.ca/civilaviation/communications/centre/address.asp

Canada

- B. Initial compliance with the above-listed tasks shall be carried out in accordance with the phase-in schedule as detailed in any corresponding TR.

Compliance in accordance with superseding TRs or later revisions of the TLMC manual, approved by Transport Canada, also satisfies the requirements of paragraph A of this AD.

- C. Complete Part D of this AD in accordance with the following schedule:

1. For aeroplane models CL-600-2B16 (604 Variant), prior to exceeding 7800 total flight cycles or within 48 months, whichever occurs first, from the effective date of this AD;
2. For aeroplane models CL-600-2B16 (601-3A/3R Variant) and CL-600-2A12 (601 Variant), comply in accordance with the table in section 1.D. of Bombardier Service Bulletin (SB) 601-0631, Basic Issue, dated 26 September 2013;
3. For aeroplane models CL-600-1A11 (600), comply in accordance with the table in section 1.D. of Bombardier SB 600-0762, Basic Issue, dated 26 September 2013;

- D. Measure the forward lug edge distance of all flap hinge boxes in accordance with the Accomplishment Instructions of the applicable Bombardier SB listed below, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada:

Aeroplane Serial Numbers	SB	Date
1004 through 1085	600-0762	26 September 2013
3001 through 3066 5001 through 5194	601-0631	26 September 2013
5301 through 5665	604-57-007	26 September 2013
5701 through 5953	605-57-005	26 September 2013

1. If the lug edge distance is equal to or greater than the limit specified in the applicable above-listed SB, no further action is required; compliance with this AD is complete.
2. If the lug edge distance is below the limit specified in the applicable above-listed SB, or a crack or damage is found, contact Bombardier Customer Support Engineering for an approved repair and incorporate the repair before further flight. The approved repair must specifically mention this AD.

New limitations or inspection requirements specified in the above-mentioned approved repair will supersede the inspection requirements in the applicable TLMC AWL tasks listed in paragraph A of this AD.

Authorization: For the Minister of Transport,

ORIGINAL SIGNED BY

Robin Lau
Acting Chief, Continuing Airworthiness

Contact: Robert Farinas, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.