



No.	CF-2011-39	1/2
Issue Date 25 October 2011		

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- 2011-39

Subject: Failure of the Main Landing Gear Side Brace Fitting Shaft

Effective: 14 November 2011

Replacement: Supersedes Airworthiness Directive CF-2002-41

Applicability: Bombardier Inc. Model CL-600-2B19 Aeroplanes, Serial Numbers 7003 through 7990, 8000 through 8999

Compliance: As indicated below.

Background: Due to the failure of the main landing gear (MLG) side brace fitting shaft, caused by corrosion, Airworthiness Directive (AD) CF-2002-41 was issued to require inspection and if needed, parts replacement. However, the existing MLG side-brace fitting shafts continued to fail. Failure of the MLG side brace fitting shaft could result in the collapse of the main landing gear.

This directive mandates the repetitive detailed visual inspection of the MLG side brace fitting and the incorporation of the re-designed MLG side brace fitting shaft part number (P/N) 601R10247-3 as the terminating action.

Corrective Actions: **Part I - Detail Visual Inspection of the MLG Side Brace Fitting Shaft, P/N 601R10237-1 or 601R10237-3**

A. Inspection Schedule:

1. For aeroplanes that have a utilization greater than 900 hours per year and have side brace shafts, P/N 601R10237-1, installed on either the left or the right hand MLG or if the side brace shaft part number cannot be identified without its removal, within 1000 hours air time from the effective date of this directive and thereafter at intervals not to exceed 1000 hours air time.
2. For aeroplanes that have a utilization of 900 hours or less per year and have side brace shafts, P/N 601R10237-1, installed on either the left or the right hand MLG or if the side brace shaft part number cannot be identified without its removal, within 18 months from the effective date of this directive and thereafter at intervals not to exceed 18 months.
3. For aeroplanes that have a utilization greater than 900 hours per year and have side brace shafts, P/N 601R10237-3, installed on either the left or the right hand MLG, within 36 months from the effective date of this directive and thereafter at intervals not to exceed 36 months.

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

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4. For aeroplanes that have a utilization of 900 hours or less per year and have side brace shafts, P/N 601R10237-3, installed on either the left or the right hand MLG, within 60 months from the effective date of this directive and thereafter at intervals not to exceed 60 months.

B. Inspection Procedures:

1. Perform a detailed visual inspection of each MLG side brace fitting shaft in accordance with Part A or Part B, as applicable, of the Accomplishment Instructions in Bombardier Service Bulletin (SB) 601R-57-052, dated 28 July 2011, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
2. If corrosion or damage is found during any required inspections, before next flight, replace the side brace fitting shaft with a new design shaft, P/N 601R10247-3, in accordance with Part C or Part D, as applicable, of the accomplishment Instructions in the above-mentioned SB.
3. If no corrosion or damage is found, complete Part A or Part B, as applicable, of the Accomplishment Instructions in the above-mentioned SB.

Part II - Replacement of the MLG Side Brace Fitting Shaft

- A. For aeroplanes that have side brace shafts, P/N 601R10237-1, installed or if the side brace shaft part number cannot be identified without its removal, replace the MLG side brace fitting shaft with a new design shaft, P/N 601R10247-3, within 27 months from the effective date of this directive, in accordance with Part C or Part D, as applicable, of the accomplishment Instructions in the above-mentioned SB.
- B. For aeroplanes that have side brace shafts, P/N 601R10237-3, installed, replace the MLG side brace fitting shaft with a new design shaft, P/N 601R10247-3, within 117 months from the effective date of this directive, in accordance with Part C or Part D, as applicable, of the Accomplishment Instructions in the above-mentioned SB.

Part III – Terminating Action

Incorporation of a new design MLG side brace fitting shaft, P/N 601R10247-3, provides terminating action to the detailed visual inspection requirements of Part I of this directive.

Authorization: For the Minister of Transport, Infrastructure and Communities

ORIGINAL SIGNED BY

Rémy Knoerr
Acting Director, National Aircraft Certification

Contact: Mr. Anthony Wan, Continuing Airworthiness, Ottawa, telephone 613-952-4357, facsimile 613-996-9178 or e-mail CAWWEBFeedback@tc.gc.ca or any Transport Canada Centre.