



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) with ADs.

Number:

CF-2025-36

Effective Date:

22 July 2025

ATA:

53, 55, 57, 78

Type Certificate:

A-131

Subject:

Fuselage, Stabilizers, Wings, Exhaust System

Applicability:

Bombardier Inc. (BA) model CL-600-2B16, serial numbers 5301 through 5665.

Compliance:

As indicated below, unless already accomplished.

Background:

Following an internal BA investigation, it was discovered that the Non-Destructive Testing Manual (NDTM) procedures, associated with twelve (12) Airworthiness Limitations (AWL) Tasks potentially could not detect cracks. Consequently, six (6) NDTM procedures are revised and eight (8) new NDTM procedures are introduced. Undetected cracks could lead to structural failure of the aeroplane.

This AD requires inspections of the structure around the passenger door, the structure around the baggage door, wing to fuselage pins at multiple locations, upper cap of the pylon spar at the fuselage frame attachment – Fuselage station (FS) 672.20, upper cap and skin of the rear spar of the horizontal stabilizer – rib 1, the lower wing plank at the rear spar Wing Station (WS) 178.00 and WS 189.00, lower wing plank at the butt strap at the front and rear spars – WS 314.50, the hinge box supports of the outboard flap and main tracks lower flange of the thrust reverser and repairs of the cracks if found.

This AD is considered interim action and further AD action may follow.

Corrective Actions:

For the purpose of this AD, the following compliance time phase-in apply:

Table 1: Compliance Time for Part I, II, III, IV, V, VI, VII and IX

Aeroplane Total Flight Cycles (FC) accumulated as of the Effective date of this AD	Compliance Time
7000 or less	Before accumulating 7800 total FC
greater than 7000 and less than 10 500	Before accumulating 11 500 total FC or within 1500 FC from the effective date of this AD, whichever occurs first
10 500 or greater	Within 1000 FC from the effective date of this AD

Part I – Special Detailed Inspection of the Structure around the Passenger Door

1. Perform, within the applicable compliance time indicated in Table 1, an initial special detailed inspection of the structure around the passenger door in accordance with Eddy Current Inspection (ET) 53-20-012 procedure dated 25 March 2019, published in Part 06 of publication number CH 604 NDTM.
2. Thereafter, at intervals not to exceed 7800 FC, repeat the special detailed inspection requested by the paragraph 1 above.
3. Perform, within the applicable compliance time indicated in Table 1, an initial special detailed inspection of the structure around the passenger door in accordance with Ultrasound Inspection (UT) 53-20-002 procedure dated 25 March 2019, published in Part 04 of publication number CH 604 NDTM.
4. Thereafter, at intervals not to exceed 7800 FC, repeat the special detailed inspection requested by the paragraph 3 above.

Part II– Special Detailed Inspection of the Structure around the Baggage Door

1. Perform, within the applicable compliance time indicated in Table 1, an initial special detailed inspection of the structure around the baggage door in accordance with ET 53-30-003 procedure dated 27 June 2023, published in Part 06 of publication number CH 604 NDTM.
2. Thereafter, at intervals not to exceed 7800 FC, repeat the special detailed inspection requested by the paragraph 1 above.
3. Perform, within the applicable compliance time indicated in Table 1, an initial special detailed inspection of the structure around the baggage door in accordance with UT 53-30-006 procedure dated 27 August 2021, published in Part 04 of publication number CH 604 NDTM.
4. Thereafter, at intervals not to exceed 7800 FC, repeat the special detailed inspection requested by the paragraph 3 above.

Part III – Special Detailed Inspections of the Wing to Fuselage Pins at FS 424.00 and Buttock Line (BL) 45.00; FS 473.00 and BL 45.00; FS 513.00 and BL 45.00; FS 513.00 and BL 13.10

1. Perform, within the applicable compliance time indicated in Table 1, an initial special detailed inspection of the wing to fuselage pins, FS 424.00 and BL 45.00 in accordance with UT 53-20-004 procedure dated 19 November 2018, published in Part 04 of publication number CH 604 NDTM.
2. Thereafter, at intervals not to exceed 6826 FC, repeat the special detailed inspection requested by the paragraph 1 above.
3. Perform, within the applicable compliance time indicated in Table 1, an initial special detailed inspection of the wing to fuselage pins, FS 473.00 and BL 45.00 in accordance with UT 53-20-005 procedure dated 19 November 2018, published in Part 04 of publication number CH 604 NDTM.
4. Thereafter, at intervals not to exceed 6826 FC, repeat the special detailed inspection requested by the paragraph 3 above.
5. Perform, within the applicable compliance time indicated in Table 1, an initial special detailed inspection of the wing to fuselage pins, FS 513.00 and BL 45.00 in accordance with UT 53-20-006 procedure dated 23 August 2018, published in Part 04 of publication number CH 604 NDTM.
6. Thereafter, at intervals not to exceed 6826 FC, repeat the special detailed inspection requested by the paragraph 5 above.
7. Perform, within the applicable compliance time indicated in Table 1, an initial special detailed inspection of the wing to fuselage pins, FS 513.00 and BL 13.10 in accordance with UT 53-20-007 procedure dated 22 November 2022, published in Part 04 of publication number CH 604 NDTM.
8. Thereafter, at intervals not to exceed 6826 FC, repeat the special detailed inspection requested by the paragraph 7 above.

Part IV – Special Detailed Inspection of the Upper Cap of the Pylon Spar at the Fuselage Frame Attachment – FS 672.20

1. Perform, within the applicable compliance time indicated in Table 1, an initial special detailed inspection of the upper cap of the pylon spar at the fuselage frame attachment – FS 672.20 in accordance with ET 53-30-020 procedure dated 19 November 2018, published in Part 06 of publication number CH 604 NDTM.
2. Thereafter, at intervals not to exceed 7800 FC, repeat the special detailed inspection requested by the paragraph 1 above.

Part V – Special Detailed Inspection of the Upper Cap and Skin of the Rear Spar of the Horizontal Stabilizer – Rib 1

1. Perform, within the applicable compliance time indicated in Table 1, an initial special detailed inspection of the upper cap and skin of the rear spar of the horizontal stabilizer – rib 1 in accordance with ET 55-10-001 procedure dated 19 November 2018, published in Part 06 of publication number CH 604 NDTM.
2. Thereafter, at intervals not to exceed 7800 FC, repeat the special detailed inspection requested by the paragraph 1 above.

Part VI – Special Detailed Inspection of the Lower Wing Plank at the Rear Spar – WS 178.00 and WS 189.00

1. Perform, within the applicable compliance time indicated in Table 1, an initial special detailed inspection of the lower wing plank at the rear spar WS 178.00 and WS 189.00 in accordance with ET 57-20-024 procedure dated 19 November 2019, published in Part 06 of publication number CH 604 NDTM.
2. Thereafter, at intervals not to exceed 2039 FC, repeat the special detailed inspection requested by the paragraph 1 above.

Part VII – Special Detailed Inspection of the Lower Wing Plank at the Butt Strap at the Front and Rear Spar – WS 314.5

1. Perform, within the applicable compliance time indicated in Table 1, an initial special detailed inspection of the lower wing plank at the butt strap at the front and rear spars – WS 314.50 in accordance with ET 57-20-008 procedure dated 25 March 2019, published in Part 06 of publication number CH 604 NDTM.
2. Thereafter, at intervals not to exceed 7800 FC, repeat the special detailed inspection requested by the paragraph 1 above.

Part VIII – Special Detailed Inspection of the Hinge Box Supports of the Outboard Flap

Table 2: Compliance Time for Part VIII

Aeroplane Total FC Accumulated as of the Effective Date of this AD	Compliance Time
7000 or less	Before accumulating 7800 total FC
greater than 7000 and less than 8500	Before accumulating 9000 total FC or within 800 FC from the effective date of this AD, whichever occurs first
greater than 8500 and less than 10 000	Before accumulating 10 300 total FC or within 500 FC from the effective date of this AD, whichever occurs first
10 000 or greater	Within 300 FC from the effective date of this AD

1. Perform, within the applicable compliance time indicated in Table 2, a special detailed inspection of the hinge box supports of the outboard flap in accordance with ET 57-50-007 procedure dated 25 March 2019, published in Part 06 of publication number CH 604 NDTM.
2. Thereafter, at intervals not to exceed 3050 FC, repeat the special detailed inspection requested by the paragraph 1 above.

Part IX – Special Detailed Inspection of the Main Tracks Lower Flange of the Thrust Reverser

1. Perform, within the applicable compliance time indicated in Table 1, an initial special detailed inspection of the main tracks lower flange of the thrust reverser in accordance with ET 78-30-012 procedure dated 19 November 2018, published in Part 06 of publication number CH 604 NDTM.
2. Thereafter, at intervals not to exceed 7800 FC, repeat the special detailed inspection requested by the paragraph 1 above.

Part X – Special Instructions

1. If any defect is found during any of the above inspections, before further flight, contact BA for an approved disposition and perform the BA disposition instructions within the compliance time specified by those instructions, or other methods approved by the Chief, Continuing Airworthiness, Transport Canada. The repair disposition must specifically refer to this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 8 July 2025

Contact:

Mihaela Kramer, Continuing Airworthiness, Ottawa, telephone 888-663-3639, or e-mail TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca or any Transport Canada Centre.