



## 適航指令發布單

### Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2023-03-001	發布日期 Date issued	2023/3/2
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	Bombardier Inc. model CL-600-2B16 aeroplanes, all serial numbers.		
主旨摘要 Subject	Landing Gear - Nose Wheel Steering System - Electronic Control Module Filter Plate Connector Failure		
民航局 CAA <input type="checkbox"/> 本國產品 Native product  <input type="checkbox"/> 其他個案 Other	設計國民航主管機構 Original Authority <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> FAA  <input type="checkbox"/> EASA  <input type="checkbox"/> Brazil  <input checked="" type="checkbox"/> Transport Canada Civil Aviation  <input type="checkbox"/> DGAC             </div> <div> <input type="checkbox"/> Germany LBA  <input type="checkbox"/> CAA-NL  <input type="checkbox"/> UK CAA  <input type="checkbox"/> Japan CAB  <input type="checkbox"/> CAA of Israel  <input type="checkbox"/> Other _____             </div> </div>		
	設計國 AD 編號 Original AD number		CF-2023-14
	1. 直接採用原 AD 之內容?(Is the original AD directly adopted?) <input checked="" type="checkbox"/> 是(Yes) <input type="checkbox"/> 否(No) _ a. 生效日期另訂為(Re-specify the effective date as) : _____ b. 執行時限另訂為(Re-specify the compliance time or period as) : _____		
	2. 使用人是否需要將 AD 執行結果向民航局提出報告?(Do Users need to report the status of compliance to the CAA?) <input type="checkbox"/> 是(Yes) <input checked="" type="checkbox"/> 否(No)		
備註 Note	ATA 32. Please see Table A - Applicable Bombardier SBs		

註： 1. AD 內容後附。  
 2. 航空器產品使用人得向民航局提出豁免、替代符合方法、執行時限之展延之申請。  
 3. 如有任何問題，請聯絡交通部民用航空局初始適航科。Tel：(02)2349-6330 / 6332, Fax：(02)2545-8464, e-mail：[adcaa@mail.caa.gov.tw](mailto:adcaa@mail.caa.gov.tw)

Note： 1. The AD text is enclosed.  
 2. Exemption, an alternative method of compliance or adjustment of the compliance time may be proposed to the CAA for approval.  
 3. For further information, please contact Civil Aeronautics Administration on Tel：(02)2349-6330 / 6332, Fax：(02)2545-8464, e-mail：[adcaa@mail.caa.gov.tw](mailto:adcaa@mail.caa.gov.tw)



# 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-2023-14

**Effective Date:**

14 March 2023

**ATA:**

32

**Type Certificate:**

A-131

**Subject:**

Landing Gear – Nose Wheel Steering System – Electronic Control Module Filter Plate Connector Failure

**Applicability:**

Bombardier Inc. model CL-600-2B16 aeroplanes, all serial numbers.

**Compliance:**

As indicated below, unless already accomplished.

**Background:**

The manufacturer of the nose wheel steering (NWS) system electronic control module (ECM), part number (P/N) 601-86100-27, introduced a new filter plate connector that does not meet the certification requirements related to the susceptibility of electronic components to high intensity radiated field. This non-compliant filter plate connector, if not replaced, could result in a malfunction of the NWS system causing potential un-commanded steering or lateral excursion from the runway.

This AD requires the removal and replacement of all affected non-compliant ECMs, P/N 601-86100-27.

**Corrective Actions:**

**Part I – Verification of the Aeroplane Technical Records**

- A. Within 24 months from the effective date of this AD, verify the aeroplane technical records to determine if the serial number of the ECM, P/N 601-86100-27, is listed in Table 1 of Section 1.A. of the applicable Service Bulletin (SB) listed in Table A of this AD.
- B. If the serial number of the ECM is not listed in Table 1 of Section 1.A. of the applicable SB or is re-identified on the name plate as SB-1 then Part II and Part III of this AD are not required. Proceed to Part IV of this AD.
- C. If the verification of the aeroplane technical records cannot be performed or if an inspection of the ECM is preferred to a records check, proceed to Part II of this AD.

**Part II – Inspection**

- A. Within 24 months from the effective date of this AD, inspect the serial number of the ECM, P/N 601-86100-27, in accordance with Section 2.B. Part A of the Accomplishment Instructions of the applicable SB listed in Table A of this AD.
- B. If the serial number of the ECM is not listed in Table 1 of Section 1.A. of the applicable SB or is re-identified on the name plate as SB-1 then Part III of this AD is not required. Proceed to Part IV of this AD.

**Part III – Replacement**

- A. Within 24 months from the effective date of this AD, remove and replace the ECM, P/N 601-86100-27, identified in Part I or Part II of this AD, in accordance with Section 2.C. Part B of the

Accomplishment Instructions of the applicable SB listed in Table A of this AD.

- B. Prior to return to service, complete the operational test of the NWS in accordance with Section 2.D. of the Accomplishment Instructions of the applicable SB listed in Table A of this AD.

#### **Part IV – Installation Prohibition of Components**

As of the effective date of this AD, it is prohibited to install ECM, P/N 601-86100-27, as a replacement part, if the serial number is listed in Table 1 of Section 1.A. of the applicable SB listed in Table A of this AD, unless the ECM has been re-identified with SB-1 on the name plate.

**Table A – Applicable Bombardier SBs**

<b>Aeroplane Model</b>	<b>Aeroplane Serial Number</b>	<b>Applicable Bombardier SBs</b>
CL-600-2B16 (Challenger 650)	6050 through 6171	SB 650-32-006, Basic Issue, dated 18 October 2021, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
CL-600-2B16 (Challenger 605)	5701 through 5990	SB 605-32-009, Basic Issue, dated 18 October 2021, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
CL-600-2B16 (Challenger 604)	5301 through 5665	SB 604-32-032, Basic Issue, dated 18 October 2021, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

#### **Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Jenny Young  
Chief, Continuing Airworthiness  
Issued on 28 February 2023

#### **Contact:**

Philip Lynch, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail [TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca](mailto:TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca) or any Transport Canada Centre.