



## Airworthiness Directive

**AD No.:** 2017-0004

**Issued:** 09 January 2017

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) 216/2008 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EC) 216/2008, Article 14(4) exemption].

### Design Approval Holder's Name:

EADS-CASA

### Type/Model designation(s):

CN-235 and C-295 aeroplanes

**Effective Date:** 23 January 2017

**TCDS Number(s):** EASA.A.186

**Foreign AD:** Not applicable

**Supersedure:** This AD supersedes EASA AD 2016-0071 dated 11 April 2016.

### ATA 28 – Fuel – Motorised Fuel Valve – Inspection

#### Manufacturer(s):

EADS-CASA, formerly Construcciones Aeronáuticas S.A. (CASA)

#### Applicability:

CN-235, CN-235-100, CN-235-200, CN-235-300 and C-295 aeroplanes, all manufacturer serial numbers.

#### Reason:

Leakage of a motorised cross-feed fuel valve Part Number (P/N) 7923227F was reported on a CN-235-100M aeroplane. The leakage was observed through the valve electrical connectors and detected during accomplishment of a functional check in accordance with task 28.007 of the CN-235 Maintenance Review Board Report (MRB CN-235-PV01). Identical motorised fuel valves are installed on civilian CN-235 and C-295 aeroplanes, as cross-feed, shut-off and defueling valves.

This condition, if not detected and corrected, could lead to failure of a motorised fuel valve and consequent improper functioning of the fuel system or, in case of an ignition source, could lead to a fire, possibly resulting in damage to the aeroplane and injury to occupants.

To address this potentially unsafe condition, Airbus Defence & Space (D&S) issued Alert Operators Transmission (AOT)-CN235-28-0001 and AOT-C295-28-0001 to provide inspection instructions.



Consequently, EASA issued AD 2016-0071 to require a one-time inspection of the affected motorised fuel valves and, depending on findings, accomplishment of applicable corrective action(s).

Since that AD was issued, new occurrences of fuel leakage involving the affected motorised fuel valves were reported and Airbus D&S issued Revision 1 of AOT-CN235-28-0001 and Revision 1 of AOT-C295-28-0001 to introduce repetitive inspections and operational checks of the affected motorised fuel valves.

For the reasons described above, this AD retains the requirements of EASA AD 2016-0071, which is superseded, and introduces repetitive inspections and operational checks of the affected fuel valves.

#### Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

- (1) Within the threshold and, thereafter at interval not to exceed the value defined in Table 1 of this AD, as applicable, accomplish repetitive inspections of each motorised fuel valve P/N 7923227F (see Note of this AD) in accordance with the instructions of Airbus D&S AOT-CN235-28-0001 Revision 1 or AOT-C295-28-0001 Revision 1, as applicable to aeroplane model.

Note: Motorised fuel valves P/N 7923227F are used on an aeroplane as cross-feed, shut-off and defueling valves, as applicable to aeroplane model and configuration.

Table 1 – Motorised fuel valve P/N 7923227F repetitive inspections

Accumulated Service Life [on 25 April 2016, the effective date of EASA AD 2016-0071]	Threshold (Initial inspection)	Compliance Time (Repetitive inspection)
6 000 flight cycles (FC) or more	30 FC or 30 days after 25 April 2016 [the effective date of EASA AD 2016-0071], whichever occurs first	300 FH
Less than 6 000 FC	300 flight hours (FH) after 25 April 2016 [the effective date of EASA AD 2016-0071] or 30 days after the effective date of this AD, whichever occurs later	

- (2) If, during any inspection as required by paragraph (1) of this AD, any fuel leakage is detected, before next flight, replace the affected fuel valve with a serviceable part in accordance with the instructions of the Airbus D&S AOT-CN235-28-0001 Revision 1 or AOT-C295-28-0001 Revision 1, as applicable to aeroplane model.
- (3) Inspection(s) and corrective action(s) accomplished before the effective date of this AD in accordance with the instructions of AOT-CN235-28-0001 original issue or AOT-C295-28-0001



original issue, as applicable to aeroplane model, are acceptable to comply with the requirements of paragraphs (1) and (2) of this AD. After the effective date of this AD, the repetitive inspections and corrective actions must be accomplished as required by paragraphs (1) and (2) of this AD.

- (4) From 25 April 2016 [the effective date of EASA AD 2016-0071], installation of a replacement motorised fuel valve P/N 7923227F (see Note of this AD) is allowed, provided that, within 30 FC or 30 days, whichever occurs first after installation, the part passes an inspection in accordance with the instructions of the applicable AOT.
- (5) Replacement of a motorised fuel valve on an aeroplane, as required by paragraph (2) of this AD, does not constitute terminating action for the repetitive inspections as required by paragraph (1) of this AD for that aeroplane.
- (6) Within 12 months after the effective date of this AD and, thereafter at intervals not to exceed 12 months, accomplish an operational check of each motorised fuel valve P/N 7923227F in accordance with the instructions of Airbus D&S AOT-CN235-28-0001 Revision 1 or AOT-C295-28-0001 Revision 1, as applicable to aeroplane model.
- (7) If, during any operational check, as required by paragraph (6) of this AD, any discrepancy is detected, as described in Airbus D&S AOT-CN235-28-0001 Revision 1 or AOT-C295-28-0001 Revision 1, as applicable to aeroplane model, before next flight contact Airbus D&S to obtain instructions for corrective action(s) and within the compliance time indicated in those instructions accomplish the corrective action(s) accordingly.
- (8) Within 60 days after replacement of a motorised fuel valve as required by paragraph (2) of this AD, report the inspection results to EADS-CASA.

**Ref. Publications:**

EADS-CASA AOT-CN235-28-0001 original issue dated 19 February 2016, or Revision 1 dated 27 September 2016.

EADS-CASA AOT-C295-28-0001 original issue dated 19 February 2016, or Revision 1 dated 27 September 2016.

The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.

**Remarks:**

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. This AD was posted on 30 September 2016 as PAD 16-139 for consultation until 28 October 2016. No comments were received during the consultation period.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu).



4. For any question concerning the technical content of the requirements in this AD, please contact: Airbus Defence and Space, Services / Engineering Support, Fax: +34 91 585 3127, E-mail: [MTA.TechnicalService@airbus.com](mailto:MTA.TechnicalService@airbus.com).

For US operators, contact alternatively:

E-mail: [TechnicalSupport@airbusmilitaryna.com](mailto:TechnicalSupport@airbusmilitaryna.com).

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