



Notification of a proposal to issue an Airworthiness Directive

PAD No.: 16-041

Issued: 16 March 2016

Note: This Proposed Airworthiness Directive (PAD) 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.

In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below.

All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation date indicated.

Design Approval Holder's Name: Type/Model designation(s):

AIRBUS A300, A300-600, A300-600ST and A310 aeroplanes

Effective Date: [TBD - standard: 14 days after AD issue date]

TCDS Numbers: EASA.A.172 and EASA.A.014

Foreign AD: Not applicable

Supersedure: This AD supersedes EASA AD 2013-0163 dated 24 July 2013.

ATA 28 – Fuel – Fuel Pumps / Power Supply Circuit Breaker – Functional Test / Replacement / Fuel Pumps Replacement

Manufacturer(s):

Airbus (formerly Airbus Industrie)

Applicability:

Airbus A300, A300-600, A300-600ST and A310 aeroplanes, all certified models, all manufacturer serial numbers.

Reason:

Two successive failures have been reported of a Right Hand # 1 inner tank fuel pump, Part Number (P/N) 2052Cxx series (where "xx" represents any numerical combination). These occurrences were solved by replacement of the pump, associated circuit breaker (CB) and the alternating current (AC) bus load relay.

Investigations determined that, in case of loss of one phase on the pump supply and the associated CB failing to trip, the fuel pump thermal fuses may not operate as quickly as expected.

This condition, if not detected and corrected, could lead to an overheat condition of the fuel pump in excess of 200°C, possibly resulting in a fuel tank explosion and loss of the aeroplane.



To address this potential unsafe condition, Airbus issued Alert Operator Transmission (AOT) A28W002-13 providing instructions for functional tests of CBs.

As a temporary measure, EASA issued AD 2013-0163 to require repetitive functional tests of the affected fuel pump power supply CBs, and, depending on findings, replacement.

Since that AD was issued, a new standard of fuel pump was developed which improves the thermal protection, thereby preventing the potential unsafe condition and cancelling the need for repetitive functional tests of the affected CBs as required by EASA AD 2013-0163. Airbus issued Service Bulletin (SB) A300-28-0093, SB A300-28-6111, SB A300-28-9025 and SB A310-28-2176 to provide instructions for this upgrade of the fuel pump for all positions on the aeroplane.

For the reasons described above, this AD retains the requirements EASA AD 2013-0163, which is superseded, and requires installation of the new standard of fuel pump, which constitutes terminating action for the repetitive functional tests.

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

Required as indicated, unless accomplished previously:

Restatement of the requirements of EASA AD 2013-0163:

- (1) Within 6 months or 500 flight hours (FH) after 07 August 2013 [the effective date of EASA AD 2013-0163], whichever occurs first, and, thereafter, at intervals not to exceed 6 months or 500 FH, whichever occurs first, accomplish a functional test of the fuel pump power supply CBs as listed in Table 1 of this AD, as applicable to aeroplane model, in accordance with the instructions of Airbus AOT A28W002-13.

Table 1: Affected Circuit Breakers

Aeroplane models	Circuit Breakers to be Tested
A300B2 (all models)	- Inner and outer pump, No. 1 and No. 2, Left Hand (LH) and Right Hand (RH) side
A300B4/C4/F4 and A300-600 (all models, except -600R), A300F4-608ST and A310-200 (all models)	- Inner and outer pump, No. 1 and No. 2, LH and RH side - Centre pump LH and RH side
A300-600R and A310-300 (all models)	- Inner and outer pump, No. 1 and No. 2, LH and RH side - Centre pump LH and RH side - Trim tank pump No. 1 and No. 2

- (2) If, during any functional test as required by paragraph (1) of this AD, any discrepancy is found, before next flight, replace the affected CB with a serviceable part in accordance with the instructions of Airbus AOT A28W002-13.



- (3) The replacement on an aeroplane of one or more CBs as required by paragraph (2) of this AD does not constitute terminating action for the repetitive functional tests as required by paragraph (1) of this AD for that aeroplane.

New requirements of this AD:

- (4) Within 72 months after the effective date of this AD, install the new standard fuel pumps at all positions on the aeroplane in accordance with the instructions of Airbus SB A300-28-0093, or SB A300-28-6111, or SB A300-28-9025, or SB A310-28-2176, as applicable to aeroplane model.
- (5) Modification of an aeroplane as required by paragraph (4) of this AD constitutes terminating action for the repetitive functional tests as required by paragraph (1) of this AD for that aeroplane.
- (6) After modification of an aeroplane as required by paragraph (4) of this AD, do not install a fuel pump having P/N 2052Cxx (where “xx” represents any numerical combination) on that aeroplane.

Ref. Publications:

Airbus AOT A28W002-13 original issue dated 23 July 2013.

Airbus SB A300-28-0093 original issue dated 15 December 2015.

Airbus SB A300-28-6111 original issue dated 15 December 2015.

Airbus SB A300-28-9025 original issue dated 15 December 2015.

Airbus SB A310-28-2176 original issue dated 15 December 2015.

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

Remarks:

1. This Proposed AD will be closed for consultation on 13 April 2016.
2. Enquiries regarding this PAD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
3. For any question concerning the technical content of the requirements in this PAD, please contact: AIRBUS – EIAW (Airworthiness Office)
E-mail: continued.airworthiness-wb.external@airbus.com.

