



Airworthiness Directive

AD No.: 2016-0175

Issued: 31 August 2016

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:

AIRBUS

Type/Model designation(s):

A380 aeroplanes

Effective Date: 14 September 2016

TCDS Number(s): EASA.A.110

Foreign AD: Not applicable

Supersedure: None

ATA 36 – Pneumatic – Duct Assembly Material – Replacement

Manufacturer(s):

Airbus

Applicability:

Airbus A380-841, A380-842 and A380-861 aeroplanes, all manufacturer serial numbers.

Reason:

During type certification activities, involving pressure endurance test of the pneumatic duct system, failure of two pneumatic ducts was experienced. The failures occurred due to fatigue cracking before the completion of the endurance test.

This condition, if not corrected, could lead to a leakage or exceedance of a temperature limit in the area of the inboard outer fixed leading edge of the wing and, combined with an inability to isolate the affected section from hot air supply, could possibly result in reduced structural integrity of the wing.

To address this potential unsafe condition, Airbus developed improved parts, introduced by Airbus modification (mod) 66360 on the production line, and published Service Bulletin (SB) A380-36-8016 to provide modification instructions for in-service aeroplanes.



For the reasons described above, this AD requires replacement of affected parts with serviceable parts.

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

Required as indicated, unless accomplished previously:

All aeroplanes, except those modified in accordance with Airbus mod 66360:

- (1) Within 25 months after the effective date of this AD, replace the duct assembly identified as 'Affected Part Number (P/N)' in Table 1 of this AD with a serviceable part identified as 'Acceptable Replacement P/N' in Table 1 of this AD in accordance with the instructions of Airbus SB A380-36-8016.

Table 1 – Replacement of Duct Assemblies

Affected P/N	Acceptable Replacement P/N
L3615003000000/100	L3615023700000/100
L3615003100000/100	L3615023800000/100

All aeroplanes:

- (2) Do not install on any aeroplane a duct assembly, having a P/N identified as "Affected P/N" in Table 1 of this AD, as applicable:
 - (2.1) For an aeroplane that, on the effective date of this AD, has a duct assembly having a P/N identified as 'Affected P/N' in Table 1 of this AD installed: After accomplishment of a replacement as required by paragraph (1) of this AD.
 - (2.2) For an aeroplane that, on the effective date of this AD, does not have a duct assembly, having a P/N identified as 'Affected P/N' in Table 1 of this AD installed: From the effective date of this AD.

Ref. Publications:

Airbus SB A380-36-8016 original issue, dated 05 February 2013.

The use of later approved revisions of this document 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 08 July 2016 as PAD 16-100 for consultation until 05 August 2016 and republished as PAD 16-100R1 on 10 August 2016 for additional consultation until 24 August 2016. The Comment Response Document can be found at <http://ad.easa.europa.eu>.



3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
4. For any question concerning the technical content of the requirements in this AD, please contact: AIRBUS - EIANA (Airworthiness Office), Telephone : +33 562 110 253; Fax: +33 562 110 307, E-mail: account.airworth-A380@airbus.com.

