Airworthiness Directive

AD No.: 2016-0095

Issued: 19 May 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:	02 June 2016
TCDS Number(s):	EASA.A.110
Foreign AD:	Not applicable
Supersedure:	None

ATA 57 – Wings – Flap Parts – Identification / Inspection [Wrong material]

Manufacturer(s):
Airbus

Applicability:
Airbus A380-841, A380-842 and A380-861 aeroplanes, all manufacturer serial numbers (MSN).

Reason:
Following an Airbus quality control review on the final assembly line, it was discovered that non-conforming aluminium alloy had been used to manufacture several structural parts located on the middle and outboard flaps.

This condition, if not detected and corrected, could reduce the structural integrity of the aeroplane.

To address this potential unsafe condition, Airbus issued Service Bulletin (SB) A380-57-8111 to provide instructions to identify and inspect the potentially affected parts.

For the reasons described above, this AD requires identification of the potentially affected middle and outboard flap parts, a one-time Special Detailed Inspection (SDI) to identify which material they are made of and, depending on findings, replacement with serviceable parts.

Required Action(s) and Compliance Time(s):
Required as indicated, unless accomplished previously:

Note 1: Appendix 1 of this AD lists the potentially affected middle (Table 1) and outboard (Table 2) flaps by serial number (s/n).

(1) Within 3 months after the effective date of this AD, identify the s/n of the left hand (LH) and right hand (RH) middle and outboard flaps installed on the aeroplane.

A review of aeroplane delivery and/or maintenance records is acceptable for identifying the installed flaps, provided those records can be relied upon for that purpose and the s/n of the affected parts can be positively identified from that review.

Note 2: Airbus SB A380-57-8111 lists the batch of affected LH and RH middle and outboard flaps and the corresponding aeroplane MSN on which these parts were installed on production line. That MSN list is for information only, as it cannot be excluded that an affected middle or outboard flap has been removed from an aeroplane and later re-installed on another aeroplane.

(2) For each middle and outboard flap, identified as required by paragraph (1) of this AD, and having a s/n as listed in Appendix 1 of this AD, within 7 years or 4 300 flight cycles (FC), whichever occurs first, accumulated by the affected flap from the date as defined in Appendix 1 of this AD, depending on the affected flap s/n, accomplish a SDI of the affected flap parts, in accordance with the instructions of Airbus SB A380-57-8111.

(3) If, during the SDI as required by paragraph (2) of this AD, a part manufactured from non-conforming material is detected, within 30 days after the SDI as required by paragraph (2) of this AD, contact Airbus for replacement instructions and within the compliance time indicated in those instructions, accomplish the replacement accordingly.

(4) From the effective date of this AD, it is allowed to install on an aeroplane a middle or outboard flap having a s/n listed in Appendix 1 of this AD, provided that, prior to installation, it has been determined that the part is a serviceable part as defined in Note 3 of this AD.

Note 3: For the purpose of this AD, a serviceable middle or outboard flap is a part that is not listed by s/n in Appendix 1 of this AD, or has a s/n listed in Appendix 1 of this AD but has passed an SDI in accordance with the instructions of Airbus SB A380-57-8111.

Ref. Publications:
Airbus SB A380-57-8111 original issue, dated 07 January 2016.

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 19 April 2016 as PAD 16-059 for consultation until 17 May 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.

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.

Appendix 1 – Middle and Outboard Flaps to be inspected

For the purpose of these Tables:
N/A - not applicable;
The starting date for the service life calculation is shown as day/month/year (dd/mm/yyyy).

Note 4: The starting date for service life calculation corresponds to the transfer of title of aeroplane where the s/n of the flap has been recorded and referenced in Airbus documentation at the time of aeroplane first delivery to an operator.

Table 1 – Middle Flaps

s/n		Starting date for service life calculation	s/n		Starting date for service life calculation
LH	RH		LH	RH	
TB1021	TB1021	04/06/2010	TB2016	TB2016	25/11/2011
TB1015	TB1015	22/08/2009	TB2001	TB2001	17/06/2011
TB1050	TB1050	28/05/2010	TB2004	TB2004	29/09/2011
TB1051	TB1051	02/07/2010	TB2007	TB2007	31/03/2011
TB2011	TB2011	12/10/2011	TB2033	TB2017	05/06/2012
TB2006	TB2006	31/05/2011	TB2017	TB2018	07/09/2011
TB2021	TB2021	16/12/2011	TB2020	TB2008	04/05/2011
TB1047	TB1047	15/05/2010	TB2010	TB2010	05/07/2011
TB2009	TB2009	13/07/2011	TB2005	TB2005	14/09/2011
TB9004	TB9004	10/02/2010	TB2012	TB2012	14/05/2012
TB1031	TB1048	16/07/2010	TB2035	TB2034	13/06/2012
TB1042	TB1042	28/09/2010	TB2019	TB2019	15/12/2011
TBE1021	TBE1021	14/04/2010	TB2024	TB2024	28/11/2011
TB1044	TB1044	20/08/2010	TB2014	TB2020	12/01/2012
TBE1019	TBE1019	06/09/2009	TB2022	TB2014	14/10/2011
TB1046	TB1046	12/08/2010	TB2032	TB2032	29/05/2012
TB1043	TB1043	16/12/2010	TB2028	TB2029	02/04/2012
TB1048	TB1056	27/10/2010	TB2023	TB2023	28/10/2011
TB1049	TB1049	12/08/2010	TB2038	TB2037	27/07/2012
TB1028	TB1028	31/01/2011	TB2029	TB2028	08/02/2012
TB1030	TB1030	16/07/2010	TB2025	TB2025	25/11/2011
TB1052	TB1052	17/05/2011	TB2043	TB2043	26/10/2012
TB2018	TB2022	28/02/2012	TB2037	TB2036	31/07/2012
TB1057	TB1064	13/01/2011	TB2026	TB2026	16/12/2011
TB1055	TB1055	05/11/2010	TB2045	TB2045	26/09/2012
TB1062	TB1062	30/11/2010	TB2046	TB2046	13/09/2012
TB2000	TB2000	16/06/2011	TB2052	TB2051	31/10/2012
TB2013	TB2013	19/08/2011	TB2027	TB2027	02/12/2011
TB2003	TB2003	15/03/2011	TB2042	TB2042	06/09/2012
TB1061	TBE1041	08/04/2011	TB2054	TB2053	28/11/2012

Table 1 – Middle Flaps

s/n		Starting date for service life calculation
LH	RH	
TB2059	TB2058	07/02/2013
TB2063	TB2062	03/07/2013
TB2065	TB2054	10/12/2012
TB2015	TB2015	24/02/2012
TB2030	TB2030	02/05/2012
TB2066	TB2056	20/12/2012
TB2034	TB2033	30/07/2012
TB2039	TB2038	29/08/2012
TB2044	TB2044	01/10/2012
TB2047	TB2047	01/10/2012
TB2048	TB2048	12/10/2012
TB2049	TB2059	19/12/2012
TB2051	TB2050	09/11/2012
TB2053	TB2052	30/11/2012
TB2056	TB2055	28/12/2012
TB2058	TB2057	27/12/2012
TB2064	TB2066	03/05/2013
TB2062	TB2061	13/03/2013
TB2067	TB2065	12/09/2013
TB2068	TB2067	08/05/2013
N/A	TB2082	20/06/2014
TB2069	TB2068	04/06/2013
TB2060	TB2060	28/02/2013
TB2073	TB2072	19/09/2013
TB2061	TB2063	21/03/2013
TB2071	TB2070	17/06/2013
TB2077	TB2076	17/10/2013
TB2080	TB2079	29/10/2013
TB2070	TB2069	28/08/2013
TB2074	TB2073	19/09/2013

s/n		Starting date for service life calculation
LH	RH	
TB2076	TB2075	25/10/2013
TB2094	TB2091	27/06/2014
TB2081	TB2080	29/11/2013
TB2075	TB2074	29/08/2013
TB2079	TB2078	27/11/2013
TB2086	TB2084	14/11/2013
TB2088	TB2085	27/11/2013
TB2072	TB2086	29/10/2013
TB2055	TB2088	12/12/2013
TB2092	TB2089	19/12/2013
TB2093	TB2090	19/12/2013
N/A	TB2081	14/02/2014
N/A	TB2100	27/03/2014
TB2089	TB2087	16/01/2014
TB2090	TB2094	28/03/2014
TB2097	TB2064	27/03/2014
TB2095	TB2093	06/03/2014
TB2100	TB2099	05/05/2014
TB2084	TB2083	19/05/2014
TB2078	TB2077	14/05/2014
TB2057	TB2098	28/05/2014
TB2103	TB2102	27/06/2014
TB2107	TB2105	09/07/2014
TB2104	TB2103	29/07/2014
TB2087	TB2104	28/07/2014
TB2108	TB2092	18/08/2014
TB2105	N/A	25/08/2014
N/A	TB2101	22/12/2014

Table 2 – Outboard Flaps

s/n		Starting date for service life calculation
LH	RH	
TB2006	TB2016	16/12/2011
TB1056	TB1056	17/05/2011
TB2021	TB2021	28/02/2012
TB2026	TB2027	05/06/2012
TB2010	TB2010	14/05/2012
TB2030	TB2032	13/06/2012
TB2016	TB2023	28/11/2011
TB2018	TB2018	14/10/2011
TB2028	TB2030	29/05/2012
TB2023	TB2024	02/04/2012
TB2019	TB2019	28/10/2011
TB2032	TB2034	27/07/2012
TB2024	TB2025	08/02/2012
TB2020	TB2020	25/11/2011
TB2037	TB2037	26/10/2012
TB2031	TB2033	31/07/2012
TB2022	TB2022	16/12/2011
TB2039	TB2039	26/09/2012
TB2040	TB2040	13/09/2012
TB2047	TB2045	31/10/2012
TB2008	TB2008	02/12/2011
TB2036	TB2036	06/09/2012
TB2049	TB2047	28/11/2012
TB2054	TB2053	07/02/2013
TB2058	TB2057	03/07/2013
TB2050	TB2048	10/12/2012
TB2025	TB2026	24/02/2012
TB2027	TB2029	02/05/2012
TB2052	TB2050	20/12/2012
TB2029	TB2031	30/07/2012
TB2033	TB2035	29/08/2012
TB2038	TB2038	01/10/2012
TB2041	TB2041	01/10/2012
TB2042	TB2042	12/10/2012

s/n		Starting date for service life calculation
LH	RH	
TB2043	TB2043	19/12/2012
TB2046	TB2044	09/11/2012
TB2048	TB2046	30/11/2012
TB2051	TB2058	28/12/2012
TB2053	TB2052	27/12/2012
TB2059	TB2061	03/05/2013
TB2057	TB2056	13/03/2013
TB2063	TB2062	12/09/2013
TB2055	TB2063	08/05/2013
TB2089	TB2065	04/06/2013
TB2061	TB2054	28/02/2013
TB2066	TB2064	19/09/2013
TB2056	TB2055	21/03/2013
TB2067	TB2059	17/06/2013
TB2070	TB2069	17/10/2013
TB2078	TB2077	29/10/2013
TB2060	TB2060	28/08/2013
TB2065	TB2068	19/09/2013
TB2068	TB2067	25/10/2013
TB2079	TB2078	29/11/2013
TB2062	TB2066	29/08/2013
TB2077	TB2070	27/11/2013
TB2080	TB2079	14/11/2013
TB2072	TB2076	27/11/2013
TB2081	TB2081	29/10/2013
TB2082	TB2049	12/12/2013
TB2090	TB2082	19/12/2013
TB2071	TB2083	19/12/2013
TB2083	TB2085	16/01/2014
TB2088	TB2089	28/03/2014
TB2064	TB2090	27/03/2014
TB2087	TB2087	06/03/2014
TB2093	TB2092	05/05/2014