


EASA	AIRWORTHINESS DIRECTIVE	
	<p>AD No.: 2012-0177</p> <p>Date: 10 September 2012</p> <p>Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.</p>	
<p>This AD is issued in accordance with EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 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 [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].</p>		
Design Approval Holder's Name:		Type/Model designation(s):
AIRBUS		A380 aeroplanes
TCDS Number:	EASA.A.110	
Foreign AD:	Not applicable	
Supersedure:	This AD supersedes EASA AD 2011-0166 dated 01 September 2011.	
ATA 52	Doors – Main Wing Landing Gear Door (MWLGD) Rear Hinge Fitting – Inspection / Replacement	
Manufacturer(s):	Airbus	
Applicability:	Airbus A380-841, A380-842, and A380-861 aeroplanes, all manufacturer serial numbers.	
Reason:	<p>One operator reported the Right Hand (RH) Auxiliary Wing Landing Gear Door (AWLGD) missing after landing. Further inspection revealed structural damages on the MWLGD rear hinge to which the AWLGD is attached.</p> <p>This condition, if not detected and corrected, could lead to an in-flight loss of an AWLGD, possibly resulting in injuries to persons on the ground.</p> <p>To address that potential unsafe condition, EASA issued AD 2011-0166 to require repetitive inspections of both RH and Left Hand (LH) MWLGD rear hinge fittings for cracks and, depending on findings, replacement of the rear hinge fittings with reinforced rear hinge fittings, which was terminating action for the repetitive inspections.</p> <p>Since that AD was issued, fatigue analysis of reinforced MWLGD rear hinge fittings has been completed and demonstrated the need of repetitive inspection requirement.</p> <p>For the reasons described above, this AD retains the requirements of EASA AD 2011-0166, which is superseded. Furthermore this AD requires inspections of the reinforced MWLGD rear hinge fittings and refers to Airbus SB A380-52-8039 to introduce reinforced MWLGD rear hinge fittings.</p>	

Effective Date:	24 September 2012
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless already accomplished:</p> <ol style="list-style-type: none"> (1) Within the initial and repetitive compliance times indicated in Appendix 1 of this AD, as applicable to MWLGD rear hinge fitting configuration, accomplish a High Frequency Eddy Current (HFEC) inspection of the MWLGD rear hinge fittings in accordance with the instructions of Airbus Service Bulletin (SB) A380-52A8040 Revision 01. (2) If, during any inspection as required by paragraph (1) of this AD, any discrepancy is found, before next flight, apply the corrective actions, as applicable to MWLGD rear hinge fitting configuration, indicated in Appendix 1 of this AD. (3) Inspections, accomplished before the effective date of this AD on MWLGD rear hinge fittings in configuration A, as defined in Appendix 1 of this AD, in accordance with the instructions of Airbus All Operator Telex (AOT) A380-52A8040, are acceptable to comply with the initial and/or repetitive inspections as required by paragraph (1) of this AD. After the effective date of this AD, the instructions of Airbus SB A380-52-8040 Revision 01 must be used. (4) From the effective date of this AD, do not install on an aeroplane a MWLGD rear hinge fitting having a Part Number (P/N) as listed in Appendix 2, unless in compliance with the requirements of this AD. <p>Note: The MWLGD rear hinge fittings upper assemblies P/N, on which the MWLGD rear hinge fittings affected by this AD are known to be installed, are listed in Appendix 3 of this AD.</p>
Ref. Publications:	<p>Airbus All Operator Telex A380-52A8040 at Original issue dated 12 May 2011.</p> <p>Airbus SB A380-52-8039 at Original issue dated 17 January 2012 and Revision 01 dated 14 August 2012.</p> <p>Airbus SB A380-52A8040 Revision 01 dated 01 February 2012.</p> <p>The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.</p>
Remarks :	<ol style="list-style-type: none"> 1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. This AD was posted on 14 May 2012 as PAD 12-042 for consultation until 11 June 2012. The Comment Response Document can be found at http://ad.easa.europa.eu. 3. Enquiries regarding this AD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail ADs@easa.europa.eu. 4. For any question concerning the technical content of the requirements in this AD, please contact: AIRBUS SAS - EIANA (Airworthiness Office), Telephone: +33 562110253 ; Fax:+33 562 110 307. E-mail: account.airworth-A380@airbus.com and/or Nabil.Tahiri@airbus.com and/or Sandra.Cuiec@airbus.com.

Appendix 1 – Compliance Time(s) and Corrective Action(s)

MWLGD rear hinge fitting configuration	Initial HFEC Inspection Compliance Time	Repetitive Interval (not to exceed)	Action, in case discrepancies are found
<p>Configuration A: For MWLGD rear hinge fitting NOT modified in production in accordance with Airbus modification 69177 and NOT modified in service in accordance with Airbus SB A380-52-8039 at Original issue or Revision 01</p>	<p>Before the accumulation of 700 flight cycles (FC) after MWLGD first installation on an aeroplane, or within 50 FC after 15 September 2011 [the effective date of EASA AD 2011-0166], whichever occurs later</p>	<p>60 FC</p>	<p>Modify the affected rear hinge fitting(s) in accordance with the instructions of SB A380-52-8039 Revision 01</p>
<p>Configuration B: For MWLGD rear hinge fitting modified in production in accordance with Airbus modification 69177 or modified (including the re-identification procedure) in service in accordance with Airbus SB A380-52-8039 at Original issue or Revision 01</p>	<p>Before the accumulation of 10 500 FC after aeroplane first flight, or after accomplishment of SB A380-52-8039 or Technical Disposition TD-FX-L-DAOR-2182/2011, as applicable</p>	<p>1 900 FC</p>	<p>Contact Airbus to obtain approved instructions for corrective action and accomplish those instructions accordingly</p>

Appendix 2: List of RH and LH MWLGD rear hinge fitting Part Numbers (P/N),
affected by this AD:

L5288123120000
L5288123120100
L5288123120200
L5288123120300

Appendix 3: List of known upper assemblies P/N on which the RH and LH MWLGD rear hinge fittings,
affected by this AD, are installed:

List of Rear hinge fitting assembly P/N:
L5288123000000
L5288123000100
L5288123000200
L5288123000300
L5288123000600
L5288123000700
L5288123000800
L5288123000900

List of MWLGD assembly P/N:	
L5288110200200	L5288110201595
L5288110200300	L5288110201600
L5288110200400	L5288110201700
L5288110200495	L5288110201800
L5288110200500	L5288110201900
L5288110200595	L5288110202000
L5288110200800	L5288110202100
L5288110200900	L5288110202200
L5288110201000	L5288110202300
L5288110201095	
L5288110201100	
L5288110201195	
L5288110201200	
L5288110201295	
L5288110201300	
L5288110201395	
L5288110201400	
L5288110201495	
L5288110201500	