


EASA	NOTIFICATION OF A PROPOSAL TO ISSUE AN AIRWORTHINESS DIRECTIVE
	<p>PAD No.: 14-093</p> <p>Date: 04 June 2014</p> <p>Note: This Proposed Airworthiness Directive (PAD) 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>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 closing date indicated.</p>	
Design Approval Holder's Name: AIRBUS	Type/Model designation(s): A319, A320 and A321 aeroplanes
TCDS Number:	EASA.A.064
Foreign AD:	Not applicable
Supersedure:	This AD supersedes DGAC France AD F-2003-434 dated 10 December 2003 (EASA approval 2003-1436).
ATA 52	Doors – Main Landing Gear Door Actuator Fittings – Inspection / Replacement
Manufacturer(s):	Airbus (formerly Airbus Industries)
Applicability:	Airbus A319-111, A319-112, A319-113, A319-114, A319-115, A319-131, A319-132, A319-133, A320-211, A320-212, A320-214, A320-215, A320-216, A320-231, A320-232, A320-233, A321-111, A321-112, A321-131, A321-211, A321-212, A321-213, A321-231 and A321-232 aeroplanes, all manufacturer serial numbers.
Reason:	<p>On one A320 aeroplane, it was reported that one of the main landing gear (MLG) doors could not be closed. Investigations revealed the rupture of the actuator fitting at the actuator attachment area on the door side. The MLG door is attached to the aeroplane by 2 hinge fittings.</p> <p>This condition, if not corrected, could, under certain conditions, lead to detachment of a MLG door from the aeroplane, possibly resulting in damage to the aeroplane, and/or injury to persons on the ground.</p> <p>Prompted by these findings, DGAC France issued AD 1999-243-133 (later revised to R1), to require a MLG door actuator fitting inspection for cracks and to check the grain direction on a batch of aeroplanes.</p> <p>Subsequently, DGAC France issued AD 2000-257-149, retaining the requirement of the DGAC France AD 1999-243-133R1, which was superseded, to require an inspection of the lower part of the MLG door actuator fitting.</p> <p>After that AD was issued, additional investigation revealed that damage could also appear on the nerve area, in the upper part of MLG door actuator fitting in the</p>

	<p>area of the hinge.</p> <p>Consequently, DGAC France issued AD F-2003-434 (EASA approval 2003-1436), retaining the requirements of DGAC France AD 2000-257-149, which was superseded, to require additional repetitive inspections. That AD also included an optional terminating action, by replacing the MLG door actuator fittings in accordance with the instructions of Airbus Service Bulletin (SB) A320-52-1073.</p> <p>Since that AD was issued, in the framework of the extended service goal campaign, it has been decided to make replacement of the MLG door actuator fittings a required modification.</p> <p>For the reasons described above, this AD retains the requirements of DGAC France AD F-2003-434, which is superseded, and requires replacement of the MLG door actuator fittings with new monoblock fittings Part Number (P/N) D5288024600001 and P/N D5288024600101, left hand (LH) and right hand (RH), respectively, which constitutes terminating action for the repetitive inspections.</p>						
Effective Date:	[TBD: 14 days after final AD issue date]						
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>Restatement of the requirements of DGAC AD F-2003-434:</p> <p>(1) For aeroplanes equipped with MLG door fittings P/N D52880224 000/001 that were installed at the time of aeroplane first delivery on MLG doors with serial numbers (S/N) as specified in Table 1 of this AD, within 500 flight hours (FH) from the last inspection in accordance with the instructions of Airbus SB A320-52A1086 Revision 01, and, thereafter, at intervals not exceeding 500 FH, accomplish a high frequency eddy current (HFEC) inspection in accordance with the instructions of Airbus SB A320-52A1086 Revision 01.</p> <p style="text-align: center;">Table 1 – MLG Doors</p> <table border="1"> <thead> <tr> <th>Location</th><th>S/N</th></tr> </thead> <tbody> <tr> <td>LH</td><td>1206 to 1237 inclusive, 1239 to 1247 inclusive, and 1249 to 1251 inclusive</td></tr> <tr> <td>RH</td><td>1208 to 1239 inclusive, 1241 to 1249 inclusive, and 1251</td></tr> </tbody> </table> <p>(2) If, during any HFEC inspection as required by paragraph (1) of this AD, any crack is found, within the compliance time (threshold) specified in Airbus SB A320-52A1086 Revision 01, replace the MLG door actuator fittings in accordance with the instructions of Airbus SB A320-52-1073 Revision 05.</p> <p>(3) If, during any HFEC inspection as required by paragraph (1) of this AD, no crack is detected, accomplish a low frequency eddy current (LFEC) inspection to determine the grain direction of the raw material of each actuator fitting in accordance with the instructions of Airbus SB A320-52A1086 Revision 01.</p> <p>(3.1) If, during the LFEC inspection as required by paragraph (3) of this AD, the grain direction of the raw material of the fitting is found to be correct, the repetitive inspections of paragraph (1) of this AD can be terminated.</p> <p>(3.2) If, during the LFEC inspection as required by paragraph (3) of this AD, the grain direction of the raw material of the fitting is found to be incorrect, continue the HFEC inspections as required by paragraph (1) of this AD or, before next flight, replace the MLG door actuator fittings in accordance with the instructions of Airbus SB</p>	Location	S/N	LH	1206 to 1237 inclusive, 1239 to 1247 inclusive, and 1249 to 1251 inclusive	RH	1208 to 1239 inclusive, 1241 to 1249 inclusive, and 1251
Location	S/N						
LH	1206 to 1237 inclusive, 1239 to 1247 inclusive, and 1249 to 1251 inclusive						
RH	1208 to 1239 inclusive, 1241 to 1249 inclusive, and 1251						

A320-52-1073 Revision 05.

- (4) For aeroplanes equipped with MLG door fittings P/N D52880224 000/001 or P/N D52880235 000/001, within 400 flight cycles (FC) after 20 December 2003 [the effective date of DGAC France AD F-2003-434], or before exceeding 9 000 FC since aeroplane first flight, whichever occurs later, and, thereafter, at intervals not exceeding 800 FC, accomplish an HFEC inspection in both hinge areas and nerve areas in accordance with the instructions of Airbus SB A320-52-1096 Revision 02.
- (5) If, during any HFEC inspection as required by paragraph (4) of this AD, any crack is found on the hinge area, or on the nerve area, within the compliance time (threshold) specified in Airbus SB A320-52-1096 Revision 02, replace the MLG door actuator fittings in accordance with the instruction of Airbus SB A320-52-1073 Revision 05.
- (6) If, during any HFEC inspection as required by paragraph (4) of this AD, any crack is found on **both** hinge area and nerve area, before next flight, replace the affected fitting(s) in accordance with the instructions of Airbus SB A320-52-1096 Revision 02 or, within the compliance time (threshold) specified in Airbus SB A320-52-1096 Revision 02, replace the MLG door actuator fittings in accordance with the instructions of Airbus SB A320-52-1073 Revision 05.
- (7) Inspections and corrective actions, accomplished before the effective date of this AD in accordance with the instructions of Airbus SB A320-52-1096 Revision 01 are acceptable to comply with the initial requirements of paragraphs (4) and (6) of this AD.

New requirements of this AD:

- (8) For all aeroplanes equipped with MLG door fittings with a P/N as listed in Table 2 of this AD, before exceeding 48 000 FC or 96 000 FH, whichever occurs later since aeroplane first flight, replace the MLG door actuator fittings in accordance with the instructions of Airbus SB A320-52-1073 Revision 05.

Table 2 – MLG Door Actuator Fittings P/N

D52880102 000/001
D52880220 000/001
D52880224 000/001
D52880235 000/001

- (9) Modification of an aeroplane, prior to the effective date of this AD in accordance with the instructions of Airbus SB A320-52-1073 (at any revision) is acceptable to comply with the requirements of paragraph (8) of this AD for that aeroplane.
- (10) An aeroplane on which Airbus modification (mod) 24903 or mod 25372 has been embodied in production is not affected by the requirements of this AD, except as specified below, provided that no MLG door actuator fitting with a P/N as listed in Table 2 of this AD has been reinstalled on that aeroplane since first flight.

Paragraph (12.1) of this AD remains applicable to post-mod 24903 and post-mod 25372 aeroplanes.
- (11) Modification of an aeroplane as required by paragraph (2), (5) or (8) of this AD, as applicable, or as specified in paragraph (3.2) or (6) of this AD, as applicable, constitutes terminating action for the repetitive inspections required by this AD for that aeroplane.
- (12) Do not install on any aeroplane a MLG door actuator fitting with a P/N as listed in Table 2 of this AD, as required by paragraph (12.1) or (12.2) of this

	<p>AD, as applicable:</p> <p>(12.1) For an aeroplane that, on the effective date of this AD, has fittings P/N D5288024600001 (LH) and P/N D5288024600101 (RH) installed: From the effective date of this AD.</p> <p>(12.2) For an aeroplane that, on the effective date of this AD, has fittings installed with a P/N as listed in Table 2 of this AD: After modification of the aeroplane as required by paragraph (2), (5) or (8) of this AD, or as specified in paragraph (3.2) or (6) of this AD.</p>
Ref. Publications:	<p>Airbus SB A320-52-1073 original issue dated 02 February 1996, or Revision 01 dated 26 April 1996, or Revision 02 dated 07 April 1997, or Revision 03 dated 01 October 1998, or Revision 04 dated 10 August 1999, or Revision 05 dated 28 September 2006.</p> <p>Airbus SB A320-52A1086 Revision 01 dated 10 September 1999.</p> <p>Airbus SB A320-52-1096 Revision 01 dated 23 October 2003, or Revision 02 dated 12 July 2006.</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. This Proposed AD will be closed for consultation on 02 July 2014. 2. Enquiries regarding this PAD should be referred to the Safety Information Section, Executive Directorate, EASA. E-mail: ADs@easa.europa.eu. 3. For any question concerning the technical content of the requirements in this PAD, please contact: AIRBUS – Airworthiness Office – EIAS; Fax +33 5 61 93 44 51; E-mail: account.airworth-eas@airbus.com.