

EASA	AIRWORTHINESS DIRECTIVE
	<p>AD No.: 2014-0058</p> <p>Date: 11 March 2014</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>
This AD is issued in accordance with EU 748/2012, Part 21.A.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].	
Design Approval Holder's Name: AIRBUS	Type/Model designation(s): A318, A319, A320 and A321 aeroplanes
TCDS Number:	EASA.A.064
Foreign AD:	Not Applicable
Supersedure:	None
ATA 32	Landing Gear – Main Landing Gear Sliding Tube Axles – Inspection
Manufacturer(s):	Airbus (formerly Airbus Industrie)
Applicability:	Airbus A318-111, A318-112, A318-121, A318-122, 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 (MSN).
Reason:	<p>A main landing gear (MLG) sliding tube axle rupture occurred in service. Investigation of the affected part showed that this failure was due to an abnormal grinding operation during overhaul by a certain maintenance and repair organisation located in Singapore. A population of MLG sliding tubes was subsequently identified whose axles may have been subject to this grinding operation, which may have resulted in areas of residual stress on the axles on the MLG sliding tubes. In addition, the MSN of the aeroplanes which are known to have had the affected parts installed have been identified.</p> <p>This condition, if not detected and corrected, could lead to cracks in the axle and (partial) detachment of axle and wheel from the sliding tube, possibly resulting in failure of a MLG with consequent damage to the aeroplane and injury to occupants.</p> <p>To address this potential unsafe condition, Messier-Bugatti-Dowty, the MLG gear manufacturer, issued Service Bulletin (SB) 200-32-313 and SB 201-32-62, providing inspection instructions and criteria for removal from service of the affected MLG sliding tubes.</p> <p>For the reasons described above, this AD requires a one-time Special Detailed Inspection (SDI) of the axle on the affected MLG sliding tubes and, depending on findings, replacement of the MLG sliding tube.</p>

Effective Date:	25 March 2014																																				
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>(1) Within 3 months after the effective date of this AD, accomplish the following actions:</p> <p>(1.1) Identify the Part Number (P/N) and Serial Number (S/N) of the MLG sliding tubes installed on each aeroplane. A review of aeroplane maintenance records is acceptable to accomplish the identification as required by this paragraph, provided those records can be relied upon for that purpose.</p> <p>An aeroplane with an MSN not listed in Table 1 of this AD is not affected by the requirements of paragraphs (1.2) and (2) of this AD, provided it can be determined that no MLG sliding tube having a P/N and S/N as listed in Appendix 1 of this AD has been installed on that aeroplane since first entry into service.</p> <p>(1.2) For each MLG sliding tube, identified as required by paragraph (1.1) of this AD, having a P/N and S/N as listed in Appendix 1 of this AD, accomplish a SDI of the affected MLG axle and brake flange in accordance with the instructions of Messier-Dowty SB 200-32-313 (A318, A319 and A320) or SB 201-32-62 (A321), as applicable, or in accordance with the instructions of Airbus SB A320-32-1416.</p> <p>(2) If, during the SDI as required by paragraph (1.2) of this AD, any damage is detected, before next flight, replace the MLG sliding tube with a serviceable one in accordance with the instructions of Messier-Dowty SB 200-32-313 (A318, A319 and A320) or SB 201-32-62 (A321), as applicable, or in accordance with the instructions of Airbus SB A320-32-1416.</p> <p>Note: For the purpose of this AD, a serviceable sliding tube is a sliding tube having a P/N and S/N not listed in Appendix 1 of this AD, or a sliding tube having a P/N and S/N listed in Appendix 1 of this AD which has passed the SDI as required by paragraph (1.2) of this AD.</p> <p>Table 1 – Affected Aeroplanes listed by MSN</p> <table border="1"><tr><td>0179</td><td>0214</td><td>0296</td><td>0412</td><td>0558</td><td>0604</td></tr><tr><td>0607</td><td>0668</td><td>0704</td><td>0720</td><td>0726</td><td>0731</td></tr><tr><td>0754</td><td>0771</td><td>0799</td><td>0828</td><td>0841</td><td>0855</td></tr><tr><td>0909</td><td>0914</td><td>0925</td><td>0939</td><td>0986</td><td>1028</td></tr><tr><td>1030</td><td>1041</td><td>1070</td><td>1083</td><td>1093</td><td>1098</td></tr><tr><td>1108</td><td>1148</td><td>1294</td><td>1356</td><td>2713</td><td>2831</td></tr></table> <p>(3) Do not install on any aeroplane a MLG sliding tube, having a P/N and S/N as listed in Appendix 1 of this AD, as required by paragraph (3.1) or (3.2) of this AD, as applicable, unless that sliding tube has passed the SDI as required by paragraph (1.2) of this AD.</p> <p>(3.1) For aeroplanes that have a MLG sliding tube installed, having a P/N and S/N as listed in Appendix 1 of this AD: After release to service of the aeroplane following the SDI as required by paragraph (1.2) of this AD.</p> <p>(3.2) For aeroplanes that, on the effective date of this AD, do not have a MLG sliding tube installed having a P/N and S/N as listed in Appendix 1 of this AD: From the effective date of this AD.</p>	0179	0214	0296	0412	0558	0604	0607	0668	0704	0720	0726	0731	0754	0771	0799	0828	0841	0855	0909	0914	0925	0939	0986	1028	1030	1041	1070	1083	1093	1098	1108	1148	1294	1356	2713	2831
0179	0214	0296	0412	0558	0604																																
0607	0668	0704	0720	0726	0731																																
0754	0771	0799	0828	0841	0855																																
0909	0914	0925	0939	0986	1028																																
1030	1041	1070	1083	1093	1098																																
1108	1148	1294	1356	2713	2831																																

Ref. Publications:	<p>Messier-Dowty SB 200-32-313 dated 25 February 2013.</p> <p>Messier-Dowty SB 201-32-62 dated 25 February 2013.</p> <p>Airbus SB A320-32-1416 dated 10 March 2014.</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 17 January 2014 as PAD 14-012 for consultation until 14 February 2014. 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 – Airworthiness Office – EIAS, Fax +33 5 61 93 44 51, E-mail: account.airworth-eas@airbus.com.

Superseded

Appendix 1 – Affected MLG Sliding Tubes

Part Number	Serial Number	Part Number	Serial Number
201160302	78B	201371304	B054-4891
201160302	1016B11	201371304	B063-4921
201160302	1144B	201371304	B071-4911
201371302	B4493	201371304	B071-4917
201371302	B4513	201371304	B080-1933
201371302	SS4359	201371304	B117-5010
201371302	B4530	201371304	B120-4989
201371302	B4517	201371304	B132-2023
201371302	B4568	201371304	B114-1956
201371302	B4498	201371304	B208-2009
201371302	4490B	201371304	B133-1947
201371302	B202-4598	201371304	B154-5037
201371302	B165-4623	201371304	B89 4952
201371302	B244-4766	201371304	B129-1964
201371302	B267-4794	201371304	B227-2010
201371302	B272-4813	201371304	B170-5031
201160302	1108B	201371304	B182-5047
201371304	B041-4871	201371304	B239-2053
201371304	B045-4869	201371304	B1401-2856
201371304	B001-4781	201371304	B1813-3142
201371304	B051-4892	201371304	B116-5004
201371304	B110-1952		

Appendix 1 – Affected MLG Sliding Tubes (continued)

Part Number	Serial Number
201522353	B011-149
201522350	B014-25
201522350	B019-56
201522350	B019-57
201522350	B021-69
201522350	B022-60
201522353	B03-111
201522353	B03-110
201522353	B112-317
201522353	B174-351
201522353	B179-392
201383350	4377B
201383350	4393B
201383350	B1831
201383350	B1832
201383350	SS4355B
201383350	SS4400B