

EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2013-0283 Date: 29 November 2013 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.
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 Retraction Actuator – Inspection / Replacement
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.
Reason:	During routine pre-flight inspection of an Airbus A319, a hydraulic fluid leak was detected, coming from the retraction actuator of the main landing gear (MLG). The results of subsequent investigations revealed that a galvanic difference between materials induced an internal corrosion which was the crack initiator of the component. Actuators from 201590 series identified as potentially affected by this manufacturing deficiency, unless inspected and corrected during MLG overhaul. This condition, if not detected and corrected, could lead to retraction actuator failure, preventing the full extension and/or down-locking of the MLG, possibly resulting in MLG collapse during landing or rollout and consequent damage to the aeroplane and injury to occupants. To address this potential unsafe condition, Airbus published Service Bulletin (SB) A320-32-1408, providing instructions to identify and replace the affected actuators that have already exceeded 20 000 flight cycles (FC) or 10 years of operation since new, or since last overhaul. For the reason described above, this AD requires a one-time identification and replacement of each affected MLG retraction actuator.

	Note: This requirement was previously introduced in Airbus A318/A319/A320/A321 Maintenance Review Board Report (MRBR) under task 32.11.00/06 or, from Revision 15 of MRBR, task 32.11.00/14.						
Effective Date:	13 December 2013						
Required Action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously: (1) Within 18 months after the effective date of this AD, inspect each MLG retraction actuator to determine whether the Part Number (P/N) is 201590001, P/N 201590002, P/N 201590002-010, P/N 201590002-020, or P/N 201590003, and to determine the time in service accumulated by the actuator (see Note 1) and, within the compliance time as specified in Table 1 of this AD, as applicable, replace each actuator with a serviceable actuator in accordance with the instructions of Airbus SB A320-32-1408. A review of aeroplane delivery or maintenance records is acceptable to make the identification and determination as required by paragraph (1) of this AD, provided those records can be relied upon for that purpose, and the P/N and time since first installation or since overhaul, as applicable, of the MLG retraction actuator can be conclusively identified from that review. Table 1 – MLG Retraction Actuator Replacement <table border="1"> <tr> <th>Time accumulated (see Note 1) by the actuator on the effective date of this AD</th><th>Compliance time</th></tr> <tr> <td>20 000 FC or 10 years, or more</td><td>Within 18 months after the effective date of this AD</td></tr> <tr> <td>Less than 20 000 FC or 10 years</td><td>Within the limits defined in MRBR task 32.11.00/14</td></tr> </table> Note 1: The times to be determined are the FC and calendar time accumulated since first installation on an aeroplane, or since last actuator overhaul, or since last accomplishment of MRBR task 32.11.00/06 or task 32.11.00/14, as applicable, whichever occurred later. (2) Within 18 months after the effective date of this AD, replace each MLG retraction actuator, having a P/N as specified in paragraph (1) of this AD and for which the in-service history is not known, with a serviceable actuator in accordance with the instructions of Airbus SB A320-32-1408. (3) Aeroplanes that do not have Airbus MOD 26644 (Installation of MLG retraction actuator P/N 20159 series) applied in production are not affected by the requirements of paragraphs (1) and (2) of this AD, provided that no MLG retraction actuator, having a P/N as specified in paragraph (1) of this AD, has been installed on that aeroplane, since first flight. (4) From the effective date of this AD, installation on an aeroplane of a MLG retraction actuator that has a P/N as specified in paragraph (1) of this AD is allowed, provided that the MLG retraction actuator has not accumulated or exceeded 20 000 FC or 10 years since new, or since overhaul.	Time accumulated (see Note 1) by the actuator on the effective date of this AD	Compliance time	20 000 FC or 10 years, or more	Within 18 months after the effective date of this AD	Less than 20 000 FC or 10 years	Within the limits defined in MRBR task 32.11.00/14
Time accumulated (see Note 1) by the actuator on the effective date of this AD	Compliance time						
20 000 FC or 10 years, or more	Within 18 months after the effective date of this AD						
Less than 20 000 FC or 10 years	Within the limits defined in MRBR task 32.11.00/14						
Ref. Publications:	Airbus SB A320-32-1408 original issue, dated 22 July 2013. Airbus A318/A319/A320/A321 MRBR, currently at Revision 18, dated March 2013. The use of later approved revisions of these documents 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 05 September 2013 as PAD 13-134 for consultation until 03 October 2013. 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.
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