

(3) For Airbus Model A310 series airplanes: Airbus Service Bulletin A310-53-2136, dated February 14, 2014.

(j) Corrective Actions

If, during any inspection required by paragraph (h) of this AD, any cracking is found, before further flight, replace the affected THS support strut(s) with serviceable struts and install clamps on each strut end, in accordance with the Accomplishment Instructions of the applicable service bulletin identified in paragraphs (g)(1) through (g)(3) of this AD.

(k) Clarification

Installation of reinforcing clamps as required by paragraph (i) of this AD, and the replacement of support struts and/or the installation of clamps as required by paragraph (j) of this AD, do not constitute terminating action for the repetitive inspections required by paragraph (h) of this AD.

(l) Reporting

At the applicable time specified in paragraphs (l)(1) and (l)(2) of this AD: After accomplishment of any inspection required by paragraph (g) of this AD, report all inspection results to Airbus, including no findings, in accordance with the Accomplishment Instructions of the applicable service bulletins specified in paragraphs (g)(1) through (g)(3) of this AD.

(1) If the inspection was done on or after the effective date of this AD: Submit the report within 30 days after the inspection.

(2) If the inspection was done before the effective date of this AD: Submit the report within 30 days after the effective date of this AD.

(m) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) *Alternative Methods of Compliance (AMOCs)*: The Manager, International Branch, ANM-116, Transport Airplane Directorate, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the International Branch, send it to ATTN: Dan Rodina, Aerospace Engineer, International Branch, ANM-116, Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone 425-227-2125; fax 425-227-1149. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office. The AMOC approval letter must specifically reference this AD.

(2) *Contacting the Manufacturer*: For any requirement in this AD to obtain corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, International Branch, ANM-116, Transport Airplane Directorate, FAA; or the European Aviation Safety Agency

(EASA); or Airbus's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(3) *Reporting Requirements*: A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2120-0056. Public reporting for this collection of information is estimated to be approximately 5 minutes per response, including the time for reviewing instructions, completing and reviewing the collection of information. All responses to this collection of information are mandatory. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at 800 Independence Ave. SW., Washington, DC 20591, Attn: Information Collection Clearance Officer, AES-200.

(n) Related Information

Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA Airworthiness Directive 2014-0164, dated July 11, 2014, for related information. This MCAI may be found in the AD docket on the Internet at <http://www.regulations.gov/#/documentDetail;D=FAA-2015-0243-0002>.

(o) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless this AD specifies otherwise.

(i) Airbus Service Bulletin A300-53-0394, dated February 14, 2014.

(ii) Airbus Service Bulletin A300-53-0395, dated February 14, 2014.

(iii) Airbus Service Bulletin A300-53-6172, dated February 14, 2014.

(iv) Airbus Service Bulletin A300-53-6174, dated February 14, 2014.

(v) Airbus Service Bulletin A310-53-2136, dated February 14, 2014.

(vi) Airbus Service Bulletin A310-53-2137, dated February 14, 2014.

(3) For service information identified in this AD, contact Airbus SAS, Airworthiness Office—EAW, 1 Rond Point Maurice Bellonte, 31707 Blagnac Cedex, France; telephone +33 5 61 93 36 96; fax +33 5 61 93 44 51; email account.airworth-eas@airbus.com; Internet <http://www.airbus.com>.

(4) You may view this service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425-227-1221.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://>

www.archives.gov/federal-register/cfr/ibr-locations.html.

Issued in Renton, Washington, on February 23, 2016.

Dionne Palermo,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.

[FR Doc. 2016-04545 Filed 3-8-16; 8:45 am]

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2014-0529; Directorate Identifier 2013-NM-260-AD; Amendment 39-18420; AD 2016-05-02]

RIN 2120-AA64

Airworthiness Directives; Airbus Airplanes

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT).

ACTION: Final rule.

SUMMARY: We are superseding Airworthiness Directive (AD) 2011-13-11 and AD 2013-16-09 for all Airbus Model A318, A319, A320, and A321 series airplanes. AD 2011-13-11 required an amendment of the airplane flight manual (AFM), repetitive checks of specific centralized fault display system (CFDS) messages, an inspection of the opening sequence of the main landing gear (MLG) door for discrepancies if certain messages are found, and corrective actions if necessary. AD 2013-16-09 required an inspection to determine airplane configuration and part numbers of the landing gear control interface unit and MLG door actuators; and, for affected airplanes, repetitive inspections of the opening sequence of the MLG door, and replacement of the MLG door actuator if necessary. AD 2013-16-09 also provided optional terminating action for the repetitive inspections. This new AD reduces the interval of the MLG door opening sequence inspection, requires replacing or modifying certain MLG door actuators, and also requires a flushing procedure to be performed when installing a new MLG door actuator. This AD was prompted by a determination that the interval of the MLG door opening sequence inspection must be reduced. We are issuing this AD to detect and correct deterioration of the damping ring and associated retaining ring of the MLG door actuator, which can sufficiently increase the friction inside the actuator to restrict opening of

the MLG door by gravity, during operation of the landing gear alternate (free-fall) extension system. This condition could prevent the full extension and/or down-locking of the MLG, possibly resulting in MLG collapse during landing and consequent damage to the airplane and injury to occupants.

DATES: This AD becomes effective April 13, 2016.

The Director of the Federal Register approved the incorporation by reference of certain publications listed in this AD as of April 13, 2016.

The Director of the Federal Register approved the incorporation by reference of a certain other publication listed in this AD as of August 23, 2013 (78 FR 48286, August 8, 2013).

The Director of the Federal Register approved the incorporation by reference of a certain other publication listed in this AD as of July 12, 2011 (76 FR 37241, June 27, 2011).

The Director of the Federal Register approved the incorporation by reference of a certain other publication listed in this AD as of April 27, 2007 (72 FR 13681, March 23, 2007).

ADDRESSES: You may examine the AD docket on the Internet at <http://www.regulations.gov/#/docketDetail;D=FAA-2014-0529>; or in person at the Docket Management Facility, U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC.

For Airbus service information identified in this final rule, contact Airbus, Airworthiness Office—ELAS, 1 Rond Point Maurice Bellonte, 31707 Blagnac Cedex, France; telephone +33 5 61 93 36 96; fax +33 5 61 93 44 51; email account.airworth-eas@airbus.com; Internet <http://www.airbus.com>. For General Electric service information identified in this final rule, contact GE Aviation, Customer Support Center, 1 Neumann Way, Cincinnati, OH 45215; phone: 513-552-3272; email: cs.techpubs@ge.com; Internet: <http://www.geaviation.com>. You may view this referenced service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425-227-1221. It is also available on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2014-0529.

FOR FURTHER INFORMATION CONTACT: Sanjay Ralhan, Aerospace Engineer, International Branch, ANM-116,

Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone 425-227-1405; fax 425-227-1149.

SUPPLEMENTARY INFORMATION:

Discussion

We issued a supplemental notice of proposed rulemaking (SNPRM) to amend 14 CFR part 39 to supersede AD 2011-13-11, Amendment 39-16734 (76 FR 37241, June 27, 2011) (“AD 2011-13-11”); and AD 2013-16-09, Amendment 39-17547 (78 FR 48286, August 8, 2013) (“AD 2013-16-09”). AD 2011-13-11 and AD 2013-16-09 applied to all Airbus Model A318, A319, A320, and A321 series airplanes. The SNPRM published in the **Federal Register** on September 22, 2015 (80 FR 57122). We preceded the SNPRM with a notice of proposed rulemaking (NPRM) that published in the **Federal Register** on August 13, 2014 (79 FR 47395; corrected August 27, 2014 (79 FR 51117)) (“the NPRM”). The NPRM was prompted by a determination that the interval of the MLG door opening sequence inspection must be reduced. The NPRM proposed to continue to require an amendment of the AFM; repetitive checks of specific CFDS messages; an inspection of the opening sequence of the MLG door for discrepancies if certain messages are found, and corrective actions if necessary; an inspection to determine airplane configuration and part numbers of the landing gear control interface unit and MLG door actuators; and, for affected airplanes, repetitive inspections of the opening sequence of the MLG door, and replacement of the MLG door actuator if necessary; and optional terminating action for the repetitive inspections. The SNPRM proposed to require a flushing procedure to be performed when installing a new MLG door actuator. We are issuing this AD to detect and correct deterioration of the damping ring and associated retaining ring of the MLG door actuator, which can sufficiently increase the friction inside the actuator to restrict opening of the MLG door by gravity, during operation of the landing gear alternate (free-fall) extension system. This condition could prevent the full extension and/or down-locking of the MLG and consequent MLG collapse during landing and damage to the airplane and injury to occupants.

The European Aviation Safety Agency (EASA), which is the Technical Agent for the Member States of the European Union, has issued EASA Airworthiness Directive 2014-0221, dated September 30, 2014 (referred to after this as the

Mandatory Continuing Airworthiness Information, or “the MCAI”), to correct an unsafe condition on all Airbus Model A318, A319, A320, and A321 series airplanes. The MCAI states:

Some operators reported slow operation of the main landing gear (MLG) door opening/closing sequence, leading to the generation of [electronic centralized aircraft monitor] ECAM warnings during the landing gear retraction or extension sequence.

Investigations showed that the damping ring and associated retaining ring of the MLG door actuator may deteriorate. The resultant debris increases the friction inside the actuator which can be sufficiently high to restrict opening of the MLG door by gravity, during operation of the landing gear alternate (freefall) extension system.

This condition, if not corrected, could prevent 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.

[An EASA AD] was issued [and later revised] to require repetitive inspections of the opening sequence of the MLG door in order to identify the affected actuators, and to introduce as an optional terminating action Airbus production Modification (mod) 38274 and associated [Airbus] Service Bulletin (SB) A320-32-1338, which incorporate an improved retaining ring, located on the piston rod’s extension end, and a new piston rod with machined shoulder to accommodate the thicker section of the modified retaining ring.

After in-service introduction of the new MLG door actuator, Part Number (P/N) 114122012 (Post-mod 38274—SB A320-32-1338), several operators reported failures of internal parts of the MLG door actuator. Investigations confirmed that these failures could result in slow extension of the actuator rod, delaying the MLG door operation, or possibly stopping just before the end of the stroke, preventing the door to reach the fully open position.

[An EASA AD], which superseded EASA AD 2006-0112R1 [http://ad.easa.europa.eu/blob/easa_ad_2006_0112_R1_superseded.pdf AD 2006-0112R1_1], was issued [and later revised] to require amendment of the applicable Airplane Flight Manual (AFM), repetitive checks of specific Centralized Fault Display System (CFDS) messages, repetitive inspections of the opening sequence of the MLG door actuator and, depending on findings, corrective action(s).

Since EASA AD 2011-0069R1 [http://ad.easa.europa.eu/blob/easa_ad_2011_0069_R1_superseded.pdf AD 2011-0069R1_1] was issued, Airbus introduced a reinforced MLG door actuator P/N 114122014 (mod 153655). Airbus issued SB A320-32-1407 containing instructions for in-service replacement of the affected MLG door actuators, or modification of the actuators to the new standard.

In addition, following a recent occurrence with a gear extension problem, the result of additional analyses by Airbus revealed that the CFDS expected specific messages may

not be generated and as a result, repetitive checks of messages are not effective for aeroplanes fitted with landing gear control interface unit (LGCIU) interlink communication ARINC 429 (applied in production through Airbus mod 39303, or in service through Airbus SB A320-32-1409), in combination with LGCIUs 80-178-02-88012 or 80-178-03-88013 in both positions and at least one MLG door actuator pre-mod 153655 (pre-Airbus SB A320-32-1407—pre-GE SB 114122-32-105) installed.

Prompted by these findings, EASA issued Emergency AD 2013-0132-E [http://ad.easa.europa.eu/blob/easa_ad_2013_0132_E_superseded.pdf] [EAD_2013-0132-E_1] [which corresponds to FAA AD 2013-16-09] to require identification of the affected aeroplanes to establish the configuration and, for those aeroplanes, repetitive inspections of the opening sequence of the MLG door actuator and, depending on findings, replacement of the MLG door actuator. That [EASA] AD also provided an optional terminating action by disconnection of the interlink for certain LGCIUs, or in-service modification of the aeroplane through Airbus SB A320-32-1407 (equivalent to Airbus production mod 153655).

Since those ADs (EASA AD 2011-0069R1 and EASA AD 2013-0132-E) were issued, analyses performed by Airbus have revealed that the MLG door opening sequence inspection interval needed to be reduced, and that the (previously optional) terminating action needed to be made mandatory.

Prompted by these findings, EASA issued AD 2013-0288 [http://ad.easa.europa.eu/blob/easa_ad_2013_0288_superseded.pdf] [AD_2013-0288_1], retaining the requirements of EASA AD 2011-0069R1 and EASA AD 2013-0132-E, which were superseded, but with reduced inspection intervals, and to require replacement or modification, as applicable, of the affected MLG door actuators as terminating action to the monitoring and repetitive checks and inspections.

Following introduction of post-mod 153655 MLG door actuators on in-service aeroplanes, it has been observed that, in case the removed pre-mod MLG door actuator has internal damage, contamination of the hydraulic system could have occurred.

This condition, if not detected and corrected, could result in performance degradation (damping degradation) of the post-mod MLG door actuator. Testing performed with a new actuator tested in heavily contaminated hydraulic system did not show abnormal hydraulic restriction/blockage. It is thus not requested to perform this “flushing procedure” on aircraft already retrofitted with std-14 actuators.

In addition, since EASA AD 2013-0288 was issued, the applicable AFM was revised and repetitive checks of specific CFDS messages are no longer considered to be required, due to the reduced intervals required by EASA AD 2013-0288.

For the reasons described above, this [EASA] AD partially retains the requirements of EASA AD 2013-0288, which is superseded, introduces improved wording

for clarification and requires, in addition to the revised operational (AFM) procedure, hydraulic flushing prior to any installation of a post-mod MLG door actuator.

You may examine the MCAI in the AD docket on the Internet at <http://www.regulations.gov/#!documentDetail;D=FAA-2014-0529-0003>.

Comments

We gave the public the opportunity to participate in developing this AD. We considered the comments received on the SNPRM. The Air Line Pilots Association International submitted two comments which supported the SNPRM.

Conclusion

We reviewed the available data, including the comments received, and determined that air safety and the public interest require adopting this AD as proposed except for minor editorial changes. We have determined that these minor changes:

- Are consistent with the intent that was proposed in the SNPRM for correcting the unsafe condition; and
- Do not add any additional burden upon the public than was already proposed in the SNPRM.

Related Service Information Under 1 CFR Part 51

Airbus has issued Service Bulletins A320-32-1390, Revision 03, dated July 3, 2014; and A320-32-1407, Revision 01, dated July 3, 2014. Airbus has also issued A318/A319/A320/A321 Temporary Revision (TR) TR437, L/G—GEAR NOT DOWNLOCKED, Issue 1.0, dated May 23, 2014, to the Airbus A318/A319/A320/A321 AFM.

Airbus Service Bulletin A320-32-1390, Revision 03, dated July 3, 2014, describes procedures for inspecting the operation of the MLG door opening sequence to determine if an actuator is defective, flushing contamination from the landing gear extension and retraction system (LGERS), and replacing the door actuator if necessary.

Airbus Service Bulletin A320-32-1407, Revision 01, dated July 3, 2014, describes procedures for flushing contamination from the LGERS and installing new MLG door actuators.

Airbus A318/A319/A320/A321 TR TR437, L/G—GEAR NOT DOWNLOCKED, Issue 1.0, dated May 23, 2014, to the AFM updates the procedure used for incomplete landing gear extension during approach.

General Electric has issued Service Bulletin 114122-32-105, Revision 2, dated June 24, 2014, which describes procedures for conversion of a MLG

door actuator and removal of unwanted material from the hydraulic fluid route.

This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the **ADDRESSES** section.

Costs of Compliance

We estimate that this AD affects 953 airplanes of U.S. registry.

The actions required by AD 2011-13-11, and retained in this AD, take about 7 work-hours per product, per inspection cycle, at an average labor rate of \$85 per work-hour. Based on these figures, the estimated cost of the actions that were required by AD 2011-13-11 is \$595 per product, per inspection cycle.

The actions required by AD 2013-16-09, and retained in this AD, take about 3 work-hours per product, per inspection cycle, at an average labor rate of \$85 per work-hour. Based on these figures, the estimated cost of the actions that were required by AD 2013-16-09 is \$255 per product, per inspection cycle.

We also estimate that it will take about 19 work-hours per product to comply with the basic requirements of this AD. The average labor rate is \$85 per work-hour. Required parts will cost about \$17,140 per product. Based on these figures, we estimate the cost of this AD on U.S. operators to be \$17,873,515, or \$18,755 per product.

In addition, we estimate that any necessary follow-on actions will take about 3 work-hours, for a cost of \$255 per product. We have no way of determining the number of aircraft that might need these actions.

Authority for This Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. “Subtitle VII: Aviation Programs,” describes in more detail the scope of the Agency's authority.

We are issuing this rulemaking under the authority described in “Subtitle VII, Part A, Subpart III, Section 44701: General requirements.” Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings

We determined that this AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify that this AD:

1. Is not a “significant regulatory action” under Executive Order 12866;
2. Is not a “significant rule” under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979);
3. Will not affect intrastate aviation in Alaska; and
4. Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

Examining the AD Docket

You may examine the AD docket on the Internet at <http://www.regulations.gov/#!docketDetail;D=FAA-2014-0529>; or in person at the Docket Management Facility between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this AD, the regulatory evaluation, any comments received, and other information. The street address for the Docket Operations office (telephone 800-647-5527) is in the ADDRESSES section.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

Adoption of the Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA amends 14 CFR part 39 as follows:

PART 39—AIRWORTHINESS DIRECTIVES

- 1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

- 2. The FAA amends § 39.13 by:
- a. Removing Airworthiness Directive (AD) 2011-13-11, Amendment 39-16734 (76 FR 37241, June 27, 2011) (“AD 2011-13-11”); and AD 2013-16-09, Amendment 39-17547 (78 FR 48286, August 8, 2013) (“AD 2013-16-09”); and
 - b. Adding the following new AD:

2016-05-02 Airbus: Amendment 39-18420. Docket No. FAA-2014-0529; Directorate Identifier 2013-NM-260-AD.

(a) Effective Date

This AD becomes effective April 13, 2016.

(b) Affected ADs

This AD replaces AD 2011-13-11, Amendment 39-16734 (76 FR 37241, June 27, 2011) (“AD 2011-13-11”); and AD 2013-16-09, Amendment 39-17547 (78 FR 48286, August 8, 2013) (“AD 2013-16-09”).

(c) Applicability

This AD applies to the Airbus airplanes, certificated in any category, identified in paragraphs (c)(1), (c)(2), (c)(3), and (c)(4) of this AD, all manufacturer serial numbers.

(1) Model A318-111, -112, -121, and -122 airplanes.

(2) Model A319-111, -112, -113, -114, -115, -131, -132, and -133 airplanes.

(3) Model A320-211, -212, -214, -231, -232, and -233 airplanes.

(4) Model A321-111, -112, -131, -211, -212, -213, -231, and -232 airplanes.

(d) Subject

Air Transport Association (ATA) of America Code 32, Landing Gear.

(e) Reason

This AD was prompted by a determination that the inspection interval of the main landing gear (MLG) door opening sequence must be reduced. We are issuing this AD to detect and correct deterioration of the damping ring and associated retaining ring of the MLG door actuator, which can sufficiently increase the friction inside the actuator to restrict opening of the MLG door by gravity, during operation of the landing gear alternate (free-fall) extension system. This condition could prevent the full extension and/or down-locking of the MLG, possibly resulting in MLG collapse during landing and consequent damage to the airplane and injury to occupants.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Retained Repetitive Inspections/Replacement, With a Formatting Change

This paragraph restates the requirements of paragraph (g) of AD 2011-13-11, with a formatting change. At the time specified in paragraph (g)(1) or (g)(2) of this AD, as applicable: Do a general visual inspection of the operation of the MLG door opening sequence to determine if a defective actuator is installed by doing all the applicable actions, including replacing the door actuator, as applicable, specified in the Accomplishment Instructions of Airbus Service Bulletin A320-32-1309, Revision 01, dated June 19, 2006. Do all applicable replacements before further flight. Repeat the inspection thereafter at intervals not to exceed 900 flight cycles. Doing the inspection required by paragraph (l) of this AD terminates the requirements of this paragraph.

(1) For airplanes on which a record of the total number of flight cycles on the MLG door

actuator is available: Before the accumulation of 3,000 total flight cycles on the MLG door actuator, or within 800 flight cycles after April 27, 2007 (the effective date of AD 2007-06-18, Amendment 39-14999 (72 FR 13681, March 23, 2007)), whichever is later.

(2) For airplanes on which a record of the total number of flight cycles on the MLG door actuator is not available: Within 800 flight cycles after April 27, 2007 (the effective date of AD 2007-06-18, Amendment 39-14999 (72 FR 13681, March 23, 2007)).

(3) For the purposes of this AD, a general visual inspection is: “A visual examination of an interior or exterior area, installation, or assembly to detect obvious damage, failure, or irregularity. This level of inspection is made from within touching distance unless otherwise specified. A mirror may be necessary to enhance visual access to all exposed surfaces in the inspection area. This level of inspection is made under normally available lighting conditions such as daylight, hangar lighting, flashlight, or droplight and may require removal or opening of access panels or doors. Stands, ladders, or platforms may be required to gain proximity to the area being checked.”

(h) Retained Provision Regarding Reporting/Parts Return, With No Changes

This paragraph restates the requirements of paragraph (h) of AD 2011-13-11, with no changes. Although the Accomplishment Instructions of Airbus Service Bulletin A320-32-1309, Revision 01, dated June 19, 2006, specify submitting certain information to the manufacturer and sending defective actuators back to the component manufacturer for investigation, this AD does not include those requirements.

(i) Retained Revision of the Airplane Flight Manual (AFM), With Formatting Changes

This paragraph restates the requirements of paragraph (i) of AD 2011-13-11, with formatting changes. Within 14 days after July 12, 2011 (the effective date of AD 2011-13-11), revise the Emergency Procedure Section of the AFM to incorporate the information in figure 1 to paragraph (i) of this AD. This may be done by inserting a copy of this AD into the AFM. When a statement identical to that in figure 1 to paragraph (i) of this AD has been included in the Emergency Procedure Section of the general revisions of the AFM, the general revisions may be inserted into the AFM, and the copy of this AD may be removed from the AFM. Doing the actions required by paragraph (t) of this AD terminates the requirements of this paragraph.

FIGURE 1 TO PARAGRAPH (i) OF THIS AD—AFM REVISION

- If ECAM triggers the “L/G GEAR NOT DOWNLOCKED” warning, apply the following procedure:
Recycle landing gear.
- If unsuccessful after 2 min:
Extend landing gear by gravity. Refer to ABN-32 L/G GRAVITY EXTENSION.

(j) Retained Repetitive Checks, With New Optional Actions and New Service Information

This paragraph restates the requirements of paragraph (j) of AD 2011–13–11, with new optional actions and new service information. Within 14 days after July 12, 2011 (the effective date of AD 2011–13–11), or before the accumulation of 800 total flight cycles, whichever occurs later, check the post flight report (PFR) for centralized fault display system (CFDS) messages triggered within the last 8 days, in accordance with paragraph 4.2.1 of Airbus All Operators Telex (AOT) A320–32A1390, dated February 10, 2011. Repeat the check thereafter at intervals not to exceed 8 days or 5 flight cycles, whichever occurs later. If done in accordance with a method approved by the Manager, International Branch, ANM–116, Transport Airplane Directorate, FAA, the use of an alternative method to check the PFR for CFDS messages (e.g., AIRMAN) is acceptable in lieu of this check if the messages can be conclusively determined from that method. Repetitive inspections of the door opening sequence of the left-hand (LH) and right-hand (RH) doors of the MLG, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A320–32–1390, Revision 03, dated July 3, 2014, are an acceptable method of compliance for the actions required by this paragraph. Repetitive inspections of the door opening sequence of the LH and RH doors of the MLG of an airplane, as required by paragraph (p) of this AD, is an acceptable method to comply with the requirements of this paragraph.

(k) Retained On-Condition Inspection, With New Service Information and Revised Language for an Acronym

This paragraph restates the requirements of paragraph (k) of AD 2011–13–11, with new service information and revised language for an acronym. If, during any check required by paragraph (j) of this AD, a pair of specific CFDS messages specified in paragraph 4.2.1 of Airbus AOT A320–32A1390, dated February 10, 2011, has been triggered by both landing gear control and interface units (LGCIU) for the same flight, before further flight, inspect the door opening sequence of the affected doors of the MLG for discrepancies (i.e., if any condition specified in steps (a) through (d) of paragraph 4.2.2 of Airbus AOT A320–32A1390, dated February 10, 2011, is not met; or if any door actuator fails any inspection check specified in Airbus Service Bulletin A320–32–1390, Revision 03, dated July 3, 2014). Do the inspection in accordance with paragraph 4.2.2 of Airbus AOT A320–32A1390, dated February 10, 2011; or the Accomplishment Instructions of Airbus Service Bulletin A320–32–1390, Revision 03, dated July 3, 2014. As of the effective date of this AD, use only Airbus Service Bulletin A320–32–1390, Revision 03, dated July 3, 2014, for the actions required by this paragraph.

(l) Retained Repetitive Inspections, With New Service Information, New Optional Actions, and Reduced Compliance Times

This paragraph restates the requirements of paragraph (l) of AD 2011–13–11, with new

service information, new optional actions, and reduced compliance times. At the applicable time specified in paragraph (l)(1) or (l)(2) of this AD: Inspect the door opening sequence of the LH and RH doors of the MLG for discrepancies (i.e., if any condition specified in steps (a) through (d) of paragraph 4.2.2 of Airbus AOT A320–32A1390, dated February 10, 2011, is not met; or if any door actuator fails any inspection check specified in the Accomplishment Instructions of Airbus Service Bulletin A320–32–1390, Revision 03, dated July 3, 2014). Do the inspection in accordance with the instructions of paragraph 4.2.2 of Airbus AOT A320–32A1390, dated February 10, 2011; or the Accomplishment Instructions of Airbus Service Bulletin A320–32–1390, Revision 03, dated July 3, 2014. As of the effective date of this AD, use only Airbus Service Bulletin A320–32–1390, Revision 03, dated July 3, 2014, for the actions required by this paragraph. Repeat the inspection within 8 days or 5 flight cycles after the effective date of this AD, whichever occurs later, without exceeding 425 flight cycles since the most recent inspection; and thereafter repeat the inspection at intervals not to exceed 8 days or 5 flight cycles, whichever occurs later. In addition, whenever any airplane is not operated for a period longer than 8 days, do the inspection before further flight. Doing this inspection terminates the requirements of paragraph (g) of this AD. Repetitive inspections of the door opening sequence of the LH and RH doors of the MLG of an airplane, as required by paragraph (p) of this AD, is an acceptable method to comply with the requirements of this paragraph.

(1) For airplanes on which an inspection required by paragraph (g) of this AD has been done as of July 12, 2011 (the effective date of AD 2011–13–11): Within 800 flight cycles after doing the most recent inspection required by paragraph (g) of this AD, or within 100 flight cycles after July 12, 2011, whichever occurs later.

(2) For airplanes on which an inspection required by paragraph (g) of this AD has not been done as of July 12, 2011 (the effective date of AD 2011–13–11): Within 800 flight cycles after July 12, 2011.

(m) Retained Replacement, With New Service Information

This paragraph restates the requirements of paragraph (m) of AD 2011–13–11, with new service information. If any discrepancy (i.e., if any condition specified in steps (a) through (d) of paragraph 4.2.2 of Airbus AOT A320–32A1390, dated February 10, 2011, is not met; or if any door actuator fails any inspection check specified in the Accomplishment Instructions of Airbus Service Bulletin A320–32–1390, Revision 03, dated July 3, 2014) is found during any inspection required by paragraph (k) or (l) of this AD, before further flight, replace the affected MLG door actuator with a new MLG door actuator, in accordance with the instructions of Airbus AOT A320–32A1390, dated February 10, 2011; or Airbus Service Bulletin A320–32–1390, Revision 03, dated July 3, 2014. As of the effective date of this AD, use only Airbus Service Bulletin A320–

32–1390, Revision 03, dated July 3, 2014, to do the actions required by this paragraph.

(n) Retained Statement of No Terminating Action for Certain Requirements, With No Changes

This paragraph restates the statement of paragraph (n) of AD 2011–13–11, with no changes. Replacement of the MLG door actuator as required by paragraph (m) of this AD is not a terminating action for the repetitive actions required by paragraphs (j) and (l) of this AD.

(o) Retained Configuration and Part Number Determination, With No Changes

This paragraph restates the requirements of paragraph (g) of AD 2013–16–09, with no changes. At the later of the compliance times specified in paragraphs (o)(1) and (o)(2) of this AD: Do an inspection to determine the configuration (modification status) of the airplane and identify the part number of the LH and RH LGCIU and MLG door actuators. A review of the airplane delivery or maintenance records is acceptable for compliance with the requirements of this paragraph provided the airplane configuration and installed components can be conclusively determined from that review.

(1) Prior to the accumulation of 800 total flight cycles since first flight of the airplane.

(2) Within 14 days after August 23, 2013 (the effective date of AD 2013–16–09).

(p) Retained MLG Door Opening Sequence Repetitive Inspections, With No Changes

This paragraph restates the requirements of paragraph (h) of AD 2013–16–09, with no changes. If, during the determination and identification required by paragraph (o) of this AD, the configuration of the airplane is determined to be post-Airbus Modification 39303 or post-Airbus Service Bulletin A320–32–1409 (Interlink Communication ARINC 429 installed), and both an LGCIU and a MLG door actuator are installed with a part number listed in figure 2 to paragraph (p) of this AD: Except as provided by paragraph (s) of this AD, at the later of the compliance times specified in paragraphs (o)(1) and (o)(2) of this AD, and thereafter at intervals not to exceed 8 days or 5 flight cycles, whichever occurs later, do an inspection of the door opening sequence of the LH and RH MLG doors, in accordance with the instructions of Airbus Alert Operators Transmission (AOT) A32N001–13, dated June 24, 2013.

FIGURE 2 TO PARAGRAPH (p) OF THIS AD—AFFECTED PART NUMBERS

Component name	Part No.
LGCIU (LH and RH)	80–178–02–88012 80–178–03–88013
MLG door actuator	114122006 114122007 114122009 114122010 114122011 114122012

(q) Retained MLG Door Opening Sequence Corrective Action, With No Changes

This paragraph restates the requirements of paragraph (i) of AD 2013-16-09, with no changes. If a slow door operation or restricted extension is found during any inspection required by paragraph (p) of this AD: Before further flight, replace the affected MLG door actuator with a new or serviceable actuator, in accordance with the instructions of Airbus AOT A32N001-13, dated June 24, 2013.

(r) Retained Terminating Action Limitation for Certain Actions, With New Service Information

This paragraph restates the requirements of paragraph (j) of AD 2013-16-09, with new service information. Replacement of a MLG door actuator, as required by paragraph (q) of this AD, does not constitute terminating action for the repetitive inspections required by paragraph (p) of this AD, unless MLG door actuators having P/N 114122014 are installed on both LH and RH sides, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A320-32-1407, dated May 14, 2013; or Airbus Service Bulletin A320-32-1407, Revision 01, dated July 3, 2014. As of the effective date of this AD, use only Airbus Service Bulletin A320-32-1407, Revision 01, dated July 3, 2014, for the actions required by this paragraph.

(s) Retained Repetitive Inspection Exception, With No Changes

This paragraph restates the requirements of paragraph (k) of AD 2013-16-09, with no changes. Airplanes on which the LGCIU interlink is disconnected (Airbus Modification 155522 applied in production, or modified in-service in accordance with the instructions of Airbus AOT A32N001-13, dated June 24, 2013), or on which MLG door actuators having P/N 114122014 are installed on both LH and RH sides (Airbus Modification 153655 applied in production, or modified in-service as described in Airbus Service Bulletin A320-32-1407), are not required to do the actions required by paragraph (p) of this AD, provided that the airplane is not modified to a configuration as defined in paragraph (p) of this AD.

(t) New Revision of the AFM

Within 14 days after the effective date of this AD, revise the Emergency Procedure Section of the AFM to incorporate Airbus A318/A319/A320/A321 Temporary Revision (TR) TR437, L/G—GEAR NOT DOWNLOCKED, Issue 1.0, dated May 23, 2014. When this TR has been included in general revisions of the AFM, the general revisions may be inserted in the AFM, provided the relevant information in the general revision is identical to that in this TR, and the copy of this TR may be removed from the AFM. Doing the action required by this paragraph terminates the actions required by paragraph (i) of this AD.

(u) New Replacement of MLG Door Actuator Having P/N 114122012

Within 12 months after the effective date of this AD: Replace each MLG door actuator having P/N 114122012 with a MLG door actuator having P/N 114122014, and flush

the affected hydraulic system, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A320-32-1407, Revision 01, dated July 3, 2014; or modify each actuator, including doing all applicable related investigative and corrective actions, in accordance with the Accomplishment Instructions of General Electric Service Bulletin 114122-32-105, Revision 2, dated June 24, 2014; except where General Electric Service Bulletin 114122-32-105, Revision 2, dated June 24, 2014, specifies to contact the manufacturer, before further flight, repair using a method approved by the Manager, International Branch, ANM-116, Transport Airplane Directorate, FAA; or the European Aviation Safety Agency (EASA); or Airbus's EASA Design Organization Approval (DOA).

(v) New Replacement of Certain Other MLG Door Actuators

Within 24 months after the effective date of this AD: Replace each MLG door actuator having a part number listed in figure 3 to paragraph (v) of this AD, except P/N 114122012, with a MLG door actuator having P/N 114122014, and flush the affected hydraulic system, in accordance with Accomplishment Instructions of Airbus Service Bulletin A320-32-1407, Revision 01, dated July 3, 2014; or modify each actuator, including doing all applicable related investigative and corrective actions, in accordance with the Accomplishment Instructions of General Electric Service Bulletin 114122-32-105, Revision 2, dated June 24, 2014; except where General Electric Service Bulletin 114122-32-105, Revision 2, dated June 24, 2014, specifies to contact the manufacturer, before further flight, repair using a method approved by the Manager, International Branch, ANM-116, Transport Airplane Directorate, FAA; or the EASA; or Airbus's EASA DOA.

FIGURE 3 TO PARAGRAPH (v) OF THIS AD—AFFECTED PART NUMBERS

Component name	Part No.
MLG door actuator	114122006
	114122007
	114122009
	114122010
	114122011
	114122012

(w) New Terminating Action

Modification of an airplane as required by paragraphs (u) and (v) of this AD, as applicable, constitutes terminating action for all repetitive actions (PFR monitoring checks and inspections) required by this AD for that airplane.

(x) New Conditional Terminating Action

Replacement of a MLG door actuator as required by paragraphs (m) and (q) of this AD; or corrective actions as specified in Airbus AOT A320-32A1390, dated February 10, 2011; or replacement of a MLG door actuator as specified in Airbus Service Bulletin A320-32-1390, Revision 03, dated July 3, 2014; does not constitute terminating action for the repetitive inspections required

by paragraphs (j), (l), and (p) of this AD, unless MLG door actuators having P/N 114122014 are installed on both LH and RH sides, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A320-32-1407, Revision 01, dated July 3, 2014.

(y) New Exception to AD Requirements

(1) An airplane on which MLG door actuators having P/N 114122014 are installed on both LH and RH sides (Airbus Modification 153655 applied in production, or modified in service as specified in Airbus Service Bulletin A320-32-1407, dated May 14, 2013; Airbus Service Bulletin A320-32-1407, Revision 01, dated July 3, 2014; General Electric Service Bulletin 114122-32-105, dated January 17, 2013; or General Electric Service Bulletin 114122-32-105, Revision 2, dated June 24, 2014); is not affected by the requirements of paragraphs (j) through (v) of this AD, provided that no MLG door actuator with a part number in figure 3 to paragraph (v) of this AD has been installed on that airplane since first flight, or since modification, as applicable.

(2) An airplane in the configuration specified in paragraph (y)(1) of this AD, and with flight warning computers having P/N 350E053021212 (H2F7) installed (Airbus Modification 153741 applied in production, or modified in service as specified in Airbus Service Bulletin A320-31-1414), is not affected by the requirement of paragraph (t) of this AD and, following modification, Airbus A318/A319/A320/A321 TR TR437, L/G GEAR NOT DOWNLOCKED, Issue 1.0, dated May 23, 2014 (if inserted), may be removed from the AFM of that airplane.

(z) New Parts Installation Prohibitions

(1) Except as specified in paragraph (z)(2) of this AD, as of the effective date of this AD, do not install on any airplane a MLG door actuator having a part number listed in figure 3 to paragraph (v) of this AD.

(2) For an airplane subject to the requirements of paragraphs (u) and (v) of this AD, as applicable, do not install a MLG door actuator having a part number listed in figure 3 to paragraph (v) of this AD after modification of the airplane.

(3) Except as specified in paragraph (z)(4) of this AD, as of the effective date of this AD, do not install on any airplane a flight warning computer (FWC) having a part number listed in figure 4 to paragraph (z) of this AD.

(4) For an airplane subject to the requirements of paragraphs (u) and (v) of this AD, as applicable, do not install a FWC having a part number listed in figure 4 to paragraph (z) of this AD after modification of the airplane.

FIGURE 4 TO PARAGRAPH (z) OF THIS AD—AFFECTED PART NUMBERS

Component name	Part No.
Flight warning computer.	350E016187171 (C5)
	350E017238484 (H1D1)
	350E017248685 (H1D2)

FIGURE 4 TO PARAGRAPH (z) OF THIS AD—AFFECTED PART NUMBERS—Continued

Component name	Part No.
	350E017251414 (H1E1)
	350E017271616 (H1E2)
	350E018291818 (H1E3CJ)
	350E018301919 (H1E3P)
	350E018312020 (H1E3Q)
	350E053020202 (H2E2)
	350E053020303 (H2E3)
	350E053020404 (H2E4)
	350E053020606 (H2F2)
	350E053020707 (H2F3)
	350E053021010 (H2F3P)
	350E053020808 (H2F4)
	350E053020909 (H2F5)
	350E053021111 (H2F6)

(aa) Credit for Previous Actions

(1) This paragraph provides credit for actions required by paragraph (g) of this AD, if those actions were performed before April 27, 2007 (the effective date of AD 2007–06–18), using Airbus Service Bulletin A320–32–1309, dated March 7, 2006. This service information is not incorporated by reference in this AD.

(2) This paragraph provides credit for actions required by paragraphs (k), (l), and (m) of this AD, if those actions were performed before the effective date of this AD using Airbus Service Bulletin A320–32–1390, Revision 01, dated September 21, 2011; or Airbus Service Bulletin A320–32–1390, Revision 02, dated October 23, 2013. This service information is not incorporated by reference in this AD.

(3) This paragraph provides credit for actions required by paragraphs (u) and (v) of this AD, if those actions were performed before the effective date of this AD using General Electric Service Bulletin 114122–32–105, dated January 17, 2013; or General Electric Service Bulletin 114122–32–105, Revision 1, dated March 26, 2013. This service information is not incorporated by reference in this AD.

(bb) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) *Alternative Methods of Compliance (AMOCs)*: The Manager, International Branch, ANM–116, Transport Airplane Directorate, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the International Branch, send it to ATTN: Sanjay Ralhan, Aerospace Engineer, International Branch, ANM–116, Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057–3356; telephone 425–227–1405; fax 425–227–1149. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal

inspector, the manager of the local flight standards district office/certificate holding district office. The AMOC approval letter must specifically reference this AD.

(2) *Required for Compliance (RC)*: If any Airbus service information contains procedures or tests that are identified as RC, those procedures and tests must be done to comply with this AD; any procedures or tests that are not identified as RC are recommended. Those procedures and tests that are not identified as RC may be deviated from using accepted methods in accordance with the operator's maintenance or inspection program without obtaining approval of an AMOC, provided the procedures and tests identified as RC can be done and the airplane can be put back in an airworthy condition. Any substitutions or changes to procedures or tests identified as RC require approval of an AMOC.

(3) *Contacting the Manufacturer*: As of the effective date of this AD, except as specified in paragraph (j) of this AD for the use of an alternative method to check the PFR for CFDS messages, for any requirement in this AD to obtain corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, International Branch, ANM–116, Transport Airplane Directorate, FAA; or EASA; or Airbus's EASA DOA. If approved by the DOA, the approval must include the DOA-authorized signature.

(4) *Previously Approved AMOCs*: AMOCs approved previously for AD 2011–13–11 and AD 2013–16–09 are approved as AMOCs for the corresponding provisions of this AD.

(cc) Special Flight Permits

Special flight permits may be issued in accordance with sections 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) to operate the airplane to a location where the airplane can be modified (if the operator elects to do so), provided the MLG remains extended and locked, and that no MLG recycle is done.

(dd) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA Airworthiness Directive 2014–0221, dated September 30, 2014, for related information. This MCAI may be found in the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA–2014–0529.

(2) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (ee)(7), (ee)(8), and (ee)(9) of this AD.

(ee) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless this AD specifies otherwise.

(3) The following service information was approved for IBR on April 13, 2016.

(i) Airbus A318/A319/A320/A321 Temporary Revision TR437, L/G—GEAR

NOT DOWNLOCKED, Issue 1.0, dated May 23, 2014, to the Airbus A318/A319/A320/A321 Airplane Flight Manual.

(ii) Airbus Service Bulletin A320–32–1390, Revision 03, dated July 3, 2014.

(iii) Airbus Service Bulletin A320–32–1407, Revision 01, dated July 3, 2014.

(iv) General Electric Service Bulletin 114122–32–105, Revision 2, dated June 24, 2014.

(4) The following service information was approved for IBR on August 23, 2013 (78 FR 48286, August 8, 2013).

(i) Airbus Alert Operators Transmission A32N001–13, dated June 24, 2013.

(ii) Reserved.

(5) The following service information was approved for IBR on July 12, 2011 (76 FR 37241, June 27, 2011).

(i) Airbus All Operators Telex A320–32A1390, dated February 10, 2011.

(ii) Reserved.

(6) The following service information was approved for IBR on April 27, 2007 (72 FR 13681, March 23, 2007).

(i) Airbus Service Bulletin A320–32–1309, Revision 01, dated June 19, 2006.

(ii) Reserved.

(7) For Airbus service information identified in this AD, contact Airbus, Airworthiness Office—EIAS, 1 Rond Point Maurice Bellonte, 31707 Blagnac Cedex, France; telephone +33 5 61 93 36 96; fax +33 5 61 93 44 51; email account.airworth-eas@airbus.com; Internet <http://www.airbus.com>.

(8) For General Electric service information identified in this AD contact GE Aviation, Customer Support Center, 1 Neumann Way, Cincinnati, OH 45215; phone: 513–552–3272; email: cs.techpubs@ge.com; Internet: <http://www.geaviation.com>.

(9) You may view this service information at the FAA, Transport Airplane Directorate, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425–227–1221.

(10) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Renton, Washington, on February 18, 2016.

Dionne Palermo,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.

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