

**DEPARTMENT OF TRANSPORTATION****Federal Aviation Administration****14 CFR Part 39**

[Docket No. FAA-2020-0652; Product Identifier 2019-SW-066-AD; Amendment 39-21322; AD 2020-23-06]

RIN 2120-AA64

**Airworthiness Directives; Airbus Helicopters**

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Final rule.

**SUMMARY:** The FAA is adopting a new airworthiness directive (AD) for Airbus Helicopters Model AS332C, AS332C1, AS332L, and AS332L1 helicopters. This AD requires inspecting the main rotor (M/R) hub assembly (hub) phonic wheel lock washer (lock washer) for correct installation and depending on the outcome, repairing or replacing the M/R hub. This AD was prompted by reported occurrences of M/R revolutions per minute ("NR") sensor fluctuations. The actions of this AD are intended to address an unsafe condition on these products.

**DATES:** This AD is effective December 24, 2020.

The Director of the Federal Register approved the incorporation by reference of a certain document listed in this AD as of December 24, 2020.

**ADDRESSES:** For service information identified in this final rule contact Airbus Helicopters, 2701 N Forum Drive, Grand Prairie, TX 75052; telephone 972-641-0000 or 800-232-0323; fax 972-641-3775; or at <https://www.airbus.com/helicopters/services/technical-support.html>. You may view the referenced service information at the FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N-321, Fort Worth, TX 76177.

It is also available on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2020-0652.

**Examining the AD Docket**

You may examine the AD docket on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2020-0652; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this AD, the European Union Aviation Safety Agency (EASA) AD, any service information that is incorporated by reference, any

comments received, and other information. The street address for Docket Operations is U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

**FOR FURTHER INFORMATION CONTACT:** Matt Fuller, AD Program Manager, Operational Safety Branch, Airworthiness Products Section, General Aviation & Rotorcraft Unit, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone 817-222-5110; email [matthew.fuller@faa.gov](mailto:matthew.fuller@faa.gov).

**SUPPLEMENTARY INFORMATION:****Discussion**

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to Airbus Helicopters Model AS332C, AS332C1, AS332L, and AS332L1 helicopters with an M/R hub part number (P/N) 332A31-0001-00, 332A31-0001-01, 332A31-0001-02, 332A31-0001-03, 332A31-0001-04, 332A31-0001-05, or 332A31-0001-06 installed. The NPRM published in the **Federal Register** on July 16, 2020 (85 FR 43160). The NPRM proposed to require removing at least one M/R "NR" sensor and borescope inspecting the phonic wheel lock washer for correct height of the lock washer. The NPRM also proposed to prohibit the installation of an affected M/R hub unless it has successfully passed the required inspection for correct lock washer installation. The proposed requirements were intended to prohibit the incorrect assembly of the M/R hub, which, if not corrected, could result in failure of the M/R hub components and subsequent loss of control of the helicopter.

The NPRM was prompted by EASA AD No. 2019-0172, dated July 18, 2019, issued by EASA, which is the Technical Agent for the Member States of the European Union. This EASA AD was issued to correct an unsafe condition for Airbus Helicopters Model AS 332 C, AS 332 C1, AS 332 L, and AS 332 L1 helicopters with an M/R hub P/N 332A31-0001-00, 332A31-0001-01, 332A31-0001-02, 332A31-0001-03, 332A31-0001-04, 332A31-0001-05, or 332A31-0001-06 installed. EASA advises of reported occurrences of "NR" sensor fluctuation and subsequent investigation identifying incorrect positioning of the M/R hub phonic wheel due to incorrect installation of the M/R mast nut press screws during maintenance of the M/R hubs. EASA advises that this condition, if not detected and corrected, could lead to failure of M/R hub components,

possibly resulting in loss of helicopter control. Accordingly, the EASA AD requires a one-time inspection of the lock washer position and depending on findings, replacing the M/R hub.

**Comments**

The FAA gave the public the opportunity to participate in developing this final rule, but the FAA did not receive any comments on the NPRM or on the determination of the cost to the public.

**FAA's Determination**

These helicopters have been approved by EASA and are approved for operation in the United States. Pursuant to the FAA's bilateral agreement with the European Union, EASA has notified the FAA of the unsafe condition described in its AD. The FAA is issuing this AD after evaluating all of the information provided by EASA and determining the unsafe condition exists and is likely to exist or develop on other helicopters of the same type designs and that air safety and the public interest require adopting these AD requirements as proposed.

**Differences Between This AD and the EASA AD**

The EASA AD requires using a flashlight and visually inspecting the position of the lock washer, and further specifies that using an endoscope can facilitate that inspection. This AD requires borescope inspecting for the correct height of the lock washer instead. After inspecting, the EASA AD requires reinstalling the removed "NR" sensor(s), while this AD requires installing airworthy "NR" sensor(s) instead. If the lock washer is in an incorrect position, the EASA AD requires replacing the M/R hub, whereas this AD requires repairing or replacing the M/R hub with an airworthy M/R hub instead.

**Related Service Information Under 14 CFR Part 51**

Airbus Helicopters has issued Alert Service Bulletin No. AS332-62.00.76, Revision 0, dated May 27, 2019, which specifies inspecting the position of the M/R hub lock washer for civilian Model AS332C, C1, L, and L1 and military Model AS332B, B1, F1, M, and M1 helicopters.

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**

The FAA estimates that this AD affects 11 helicopters of U.S. Registry.

Labor rates are estimated at \$85 per work-hour. Based on these numbers, the FAA estimates that operators may incur the following costs in order to comply with this AD.

Removing an “NR” sensor and borescope inspecting takes about 0.5 work-hour for an estimated cost of \$43 per helicopter and \$473 for the U.S. fleet.

Repairing the M/R hub takes about 10 work-hours and parts cost up to about \$3,000 for an estimated cost of up to \$3,850 and replacing the M/R hub takes about 8 work-hours and parts cost about \$50,000 for an estimated cost of \$50,680.

#### 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.

The FAA is 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 helicopters identified in this rulemaking action.

#### Regulatory Findings

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) Will not affect intrastate aviation in Alaska, and
- (3) 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.

#### 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 adding the following new airworthiness directive:

##### 2020–23–06 Airbus Helicopters:

Amendment 39–21322; Docket No. FAA–2020–0652; Product Identifier 2019–SW–066–AD.

##### (a) Applicability

This airworthiness directive (AD) applies to Airbus Helicopters Model AS332C, AS332C1, AS332L, and AS332L1 helicopters, certificated in any category, with a main rotor (M/R) hub assembly (hub) part number (P/N) 332A31–0001–00, 332A31–0001–01, 332A31–0001–02, 332A31–0001–03, 332A31–0001–04, 332A31–0001–05, or 332A31–0001–06 installed.

##### (b) Unsafe Condition

This AD defines the unsafe condition as incorrect assembly of the M/R hub. This condition could result in failure of the M/R hub components and subsequent loss of control of the helicopter.

##### (c) Effective Date

This AD becomes effective December 24, 2020.

##### (d) Compliance

You are responsible for performing each action required by this AD within the specified compliance time unless it has already been accomplished prior to that time.

##### (e) Required Actions

(1) Within 55 hours time-in-service, remove at least one M/R revolutions per minute (“NR”) sensor and borescope inspect the phonic wheel lock washer (lock washer) for correct height of the lock washer (if the installation is correct, you can see the edge of the splines) through the hole of the removed “NR” sensor(s) as shown in Figure 1 to Airbus Helicopters Alert Service Bulletin No. AS332–62.00.76, Revision 0, dated May 27, 2019.

(i) If the height of the lock washer is correct, before further flight, install the “NR” sensor(s).

(ii) If the height of the lock washer is not correct, before further flight, install the “NR” sensor(s) and repair or replace the M/R hub in accordance with FAA-approved procedures.

(2) As of the effective date of this AD, do not install M/R hub P/N 332A31–0001–00, 332A31–0001–01, 332A31–0001–02, 332A31–0001–03, 332A31–0001–04,

332A31–0001–05, or 332A31–0001–06 on any helicopter unless the actions of paragraph (e)(1) of this AD have been accomplished.

##### (f) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Rotorcraft Standards Branch, FAA, may approve AMOCs for this AD. Send your proposal to: Matt Fuller, AD Program Manager, Operational Safety Branch, Airworthiness Products Section, General Aviation & Rotorcraft Unit, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone 817–222–5110; email [matthew.fuller@faa.gov](mailto:matthew.fuller@faa.gov).

(2) For operations conducted under a 14 CFR part 119 operating certificate or under 14 CFR part 91, subpart K, the FAA suggests that you notify your principal inspector, or lacking a principal inspector, the manager of the local flight standards district office or certificate holding district office, before operating any aircraft complying with this AD through an AMOC.

##### (g) Additional Information

The subject of this AD is addressed in European Union Aviation Safety Agency (EASA) No. 2019–0172, dated July 18, 2019. You may view the EASA AD on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA–2020–0652.

##### (h) Subject

Joint Aircraft Service Component (JASC) Code: 6230, Main Rotor Mast/Swashplate.

##### (i) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference 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 the AD specifies otherwise.

(i) Airbus Helicopters Alert Service Bulletin No. AS332–62.00.76, Revision 0, dated May 27, 2019.

(ii) [Reserved]

(3) For service information identified in this AD, contact Airbus Helicopters, 2701 N Forum Drive, Grand Prairie, TX 75052; telephone 972–641–0000 or 800–232–0323; fax 972–641–3775; or at <https://www.airbus.com/helicopters/services/technical-support.html>.

(4) You may view this service information at the FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N–321, Fort Worth, TX 76177. For information on the availability of this material at the FAA, call 817–222–5110.

(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, email [fedreg.legal@nara.gov](mailto:fedreg.legal@nara.gov), or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on October 30, 2020.

**Lance T. Gant,**

*Director, Compliance & Airworthiness  
Division, Aircraft Certification Service.*

[FR Doc. 2020-25471 Filed 11-18-20; 8:45 am]

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. FAA-2020-0685; Project Identifier MCAI-2020-00396-R; Amendment 39-21325; AD 2020-23-09]

RIN 2120-AA64

#### Airworthiness Directives; Airbus Helicopters

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

**ACTION:** Final rule.

**SUMMARY:** The FAA is adopting a new airworthiness directive (AD) for all Airbus Helicopters Model EC130B4 helicopters. This AD was prompted by reports of inflight detachment of the left-hand (LH) side cabin sliding doors and cases of impact damage on the main rotor blades, which were caused by degradation of the sliding door locking mechanism. This AD requires repetitive checks (measurements) of the load that operates the sliding door opening mechanism, repetitive inspections of the markings of the attachment screws for proper alignment, modifying the attachment system of the sliding door, and corrective actions if necessary, as specified in a European Union Aviation Safety Agency (EASA) AD, which is incorporated by reference. The FAA is issuing this AD to address the unsafe condition on these products.

**DATES:** This AD is effective December 24, 2020.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of December 24, 2020.

**ADDRESSES:** For material incorporated by reference (IBR) in this AD, contact the EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 8999 000; email [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu); internet [www.easa.europa.eu](http://www.easa.europa.eu). You may find this IBR material on the EASA website at <https://ad.easa.europa.eu>. You may view this IBR material at the FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N-321, Fort Worth, TX

76177. For information on the availability of this material at the FAA, call 817-222-5110. It is also available in the AD docket on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2020-0685.

#### Examining the AD Docket

You may examine the AD docket on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2020-0685; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this final rule, any comments received, and other information. The address for Docket Operations is U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

#### FOR FURTHER INFORMATION CONTACT:

Kristin Bradley, Aviation Safety Engineer, International Validation Branch, General Aviation & Rotorcraft Unit, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone 817-222-5485; email [Kristin.Bradley@faa.gov](mailto:Kristin.Bradley@faa.gov).

#### SUPPLEMENTARY INFORMATION:

##### Discussion

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to all Airbus Helicopters Model EC130B4 helicopters. The NPRM published in the **Federal Register** on August 6, 2020 (85 FR 47714). The NPRM was prompted by reports of inflight detachment of the LH side cabin sliding doors and cases of impact damage on the main rotor blades, which were caused by degradation of the sliding door locking mechanism. The NPRM proposed to require repetitive checks (measurements) of the load that operates the sliding door opening mechanism, repetitive inspections of the markings of the attachment screws for proper alignment, modifying the attachment system of the sliding door, and corrective actions if necessary, as specified in an EASA AD.

The FAA is issuing this AD to address degradation of the locking mechanism, which could lead to further events of inflight detachment of a LH side cabin sliding door, and possibly result in damage to the helicopter and injury to persons on the ground.

The EASA, which is the Technical Agent for the Member States of the European Union, has issued EASA AD 2020-0069, dated March 24, 2020 (EASA AD 2020-0069) (also referred to

as the Mandatory Continuing Airworthiness Information, or the MCAI), to correct an unsafe condition for all Airbus Helicopters Model EC130B4 helicopters. See the MCAI for additional background information.

#### Comments

The FAA gave the public the opportunity to participate in developing this final rule. The FAA has considered the comments received. An anonymous commenter indicated its support for the NPRM.

#### Conclusion

The FAA reviewed the relevant data, considered the comment received, and determined that air safety and the public interest require adopting this final rule as proposed, except for minor editorial changes. The FAA has determined that these minor changes:

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

#### Related Service Information Under 14 CFR Part 51

EASA AD 2020-0069 describes procedures for repetitive checks (measurements) of the load that operates the sliding door opening mechanism, repetitive inspections of the markings of the attachment screws of the rear LH upper catch for proper alignment, modifying the attachment system of the sliding door, and corrective actions if necessary. Corrective actions include adjusting the rear LH upper catch to increase the load required to operate the sliding door opening mechanism, inspecting the rear LH upper catch to determine if any anchor nut is not locked, and replacing the anchor nuts of the rear LH upper catch. EASA AD2020-0069 also specifies that doing the modification of the attachment system of the sliding door is a terminating action for the repetitive inspections of the markings of the attachment screws of the rear LH upper catch for proper alignment.

This material 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

The FAA estimates that this AD affects 159 helicopters of U.S. registry. The FAA estimates the following costs to comply with this AD: