The Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N–321, Fort Worth, TX 76177.


(i) Subject


Issued in Fort Worth, Texas, on December 12, 2017

Scott A. Horn,

Deputy Director for Regulatory Operations, Compliance & Airworthiness Division, Aircraft Certification Service.

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39


RIN 2120–AA64

Airworthiness Directives; The Enstrom Helicopter Corporation Helicopters

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule; request for comments.


DATES: This AD becomes effective January 4, 2018.

The Director of the Federal Register approved the incorporation by reference of certain documents listed in this AD as of January 4, 2018.

We must receive comments on this AD by February 20, 2018.

ADDRESS: You may send comments by any of the following methods:

• Federal eRulemaking Docket: Go to http://www.regulations.gov. Follow the online instructions for sending your comments electronically.

• Fax: 202–482–2751.

• Mail: Send comments to the U.S. Department of Transportation, Docket Operations, M–30, West Building Ground Floor, Room W12–140, 1200 New Jersey Avenue SE, Washington, DC 20590–0001.

• Hand Delivery: Deliver to the “Mail” address between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

Examining the AD Docket

You may examine the AD docket on the internet at http://www.regulations.gov by searching for and locating Docket No. FAA–2017–1191; or in person at the Docket Operations Office between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this AD, any incorporated-by-reference service information, the economic evaluation, any comments received, and other information. The street address for the Docket Operations Office (telephone 800–647–5527) is in the ADDRESSES section. Comments will be available in the AD docket shortly after receipt.

For service information identified in this final rule, contact Enstrom Helicopter Corporation, 2209 22nd Street, Menominee, MI; telephone (906) 863–1200; fax (906) 863–6821; or at www.enstromhelicopter.com. You may review 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 http://www.regulations.gov by searching for and locating Docket No. FAA–2017–1191.

FOR FURTHER INFORMATION CONTACT:

Manzoor Javed, Senior Aerospace Engineer, Chicago ACO Branch, Compliance and Airworthiness Division, Aircraft Certification Service, FAA, 2300 East Devon Ave., Des Plaines, IL 60018; telephone (847) 294–8112; email manzoor.javed@faa.gov.

SUPPLEMENTARY INFORMATION:

Comments Invited

This AD is a final rule that involves requirements affecting flight safety, and we did not provide you with notice and an opportunity to provide your comments prior to it becoming effective. However, we invite you to participate in this rulemaking by submitting written comments, data, or views. We also invite comments relating to the economic, environmental, energy, or federalism impacts that resulted from adopting this AD. The most helpful comments reference a specific portion of the AD, explain the reason for any recommended change, and include supporting data. To ensure the docket does not contain duplicate comments, commenters should send only one copy of written comments, or if comments are filed electronically, commenters should submit them only one time. We will file in the docket all comments that we receive, as well as a report summarizing each substantive public contact with FAA personnel concerning this rulemaking during the comment period. We will consider all the comments we receive and may conduct additional rulemaking based on those comments.

Discussion

We are adopting a new AD for Enstrom Model F–28, F–28A, F–28C, F–28C–2, F–28C–2R, F–28F, F–28F–R, TH–28, 280, 280C, 280F, 280FX, 480, and 480B helicopters with a rod end bearing assembly (bearing assembly) part number (P/N) 01–824–086–011, 09455–01–824–086–011, ECD091–1, ASMK8T, MS1935/1–08K, MS21242S8K, or MTK8 installed. We received a report of an accident involving an Enstrom Model 480B helicopter in which one of the main rotor (M/R) blades departed in-flight. The preliminary investigation indicated that failure of a rod end bearing assembly of one of the M/R hydraulic damper assemblies may have caused the M/R blade to depart from the helicopter. Based on a partially visible marking, the FAA believes the failed part is assembly of one of the main rotor bearing assembly (bearing assembly) part number (P/N) 01–824–086–011, 09455–01–824–086–011, ECD091–1, ASMK8T, MS1935/1–08K, MS21242S8K, or MT8K installed. We received a report of an accident involving an Enstrom Model 480B helicopter in which one of the main rotor (M/R) blades departed in-flight. The preliminary investigation indicated that failure of a rod end bearing assembly of one of the M/R hydraulic damper assemblies may have caused the M/R blade to depart from the helicopter. Based on a partially visible marking, the FAA believes the failed part is assembly of one of the main rotor (M/R) blades departed in-flight. The preliminary investigation indicated that failure of a rod end bearing assembly of one of the M/R hydraulic damper assemblies may have caused the M/R blade to depart from the helicopter. Based on a partially visible marking, the FAA believes the failed part is assembly of one of the main rotor (M/R) blades departed in-flight.
We plan to publish a notice of proposed rulemaking to give the public an opportunity to comment on those long-term requirements.

**FAA’s Determination**

We are issuing this AD because we evaluated all the relevant information and determined the unsafe condition described previously is likely to exist or develop in other helicopters of these same type designs.

**Related Service Information Under 1 CFR Part 51**


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 ADDRESSSES section.

**AD Requirements**


This AD also requires, within 10 days after completing each inspection, reporting the findings of the inspection to the FAA’s Chicago ACO Branch, including: The owner’s contact information, helicopter registration number and model, date of the inspection, total hours of the bearing assembly and helicopter, bearing assembly serial number, the location of any corrosion, and a description of any corrosion.

**Costs of Compliance**

We estimate that this AD affects 513 helicopters of U.S. Registry. At an average labor rate of $85 per work-hour, we estimate that operators may incur the following costs in order to comply with this AD.

Inspecting the bearing assemblies will require 5 work-hours, for a cost per helicopter of $425 and a total cost of $218,025 to the U.S. fleet.

Reporting the inspection results required by this AD will require about 0.5 work-hour, for a cost per helicopter of $43, and a total cost of $22,059 to the U.S. fleet.

If required, replacing one bearing assembly will not incur any additional work-hours, and required parts will cost $410, for a cost per helicopter of $410.

**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
specified compliance time unless it has already been accomplished prior to that time.

(e) Required Actions
(2) For Model F–28, F–28A, F–28C, F–28C–2, F–28C–2R, F–28F, F–28F–R, 280, 280C, 280F, and 280FX helicopters, within 5 hours TIS, using a 5X or higher power magnifying glass, inspect each belt tension shaft rod end bearing assembly for corrosion on the threaded portion of the rod end as shown in Figure 1 of SDB 0127. If there is any corrosion, before further flight, replace the bearing assembly.
(3) Within 10 days after completing the inspections required by paragraph (e)(1) and (e)(2) of this AD, report the findings of each inspection, including the helicopter owner, address, telephone number, email address, helicopter model, helicopter registration number, date of inspection, total hours TIS of the helicopter, total hours TIS of the bearing, bearing assembly serial number, location of any corrosion, and a description of any corrosion, by mail or email to the individual listed in paragraph (g)(1) of this AD.

(f) Paperwork Reduction Act Burden Statement
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 30 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.

(g) Alternative Methods of Compliance (AMOCs)
(1) The Manager, Chicago ACO Branch, Compliance and Airworthiness Division, Aircraft Certification Service, FAA, may approve AMOCs for this AD. Send your proposal to: Manzoor Javed, Senior Aerospace Engineer, Chicago ACO Branch, Compliance and Airworthiness Division, Aircraft Certification Service, FAA, 2300 East Devon Ave., Des Plaines, IL 60018; telephone (847) 294–8112; email manzoor.javed@faa.gov.
(2) For operations conducted under a 14 CFR part 119 operating certificate or under 14 CFR part 91, subpart K, we suggest 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.

(b) Subject
Joint Aircraft Service Component (JASC) Code: 6200 Main Rotor System.

(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 may use this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise.
(3) For Enstrom service information identified in this AD, contact Enstrom Helicopter Corporation, 2209 22nd Street, Menominee, MI; telephone (906) 863–1200; fax (906) 863–6821; or at www.enstromhelicopter.com.
(4) You may view this service information at 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, call (202) 741–6030, or go to: http://www.archives.gov/federal-register/cfr/ibr-locations.html.

Issued in Fort Worth, Texas, on December 11, 2017.
Scott A. Horn,
Deputy Director for Regulatory Operations, Compliance & Airworthiness Division, Aircraft Certification Service.

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