

**(f) Compliance**

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

**(g) Requirements**

Except as specified in paragraph (h) of this AD: Comply with all required actions and compliance times specified in, and in accordance with, European Union Aviation Safety Agency (EASA) AD 2019-0140, dated June 12, 2019 ("EASA AD 2019-0140").

**(h) Exceptions to EASA AD 2019-0140**

(1) Where EASA AD 2019-0140 refers to its effective date, this AD requires using the effective date of this AD.

(2) The "Remarks" section of EASA AD 2019-0140 does not apply to this AD.

**(i) Other FAA AD Provisions**

The following provisions also apply to this AD:

(1) *Alternative Methods of Compliance (AMOCs)*: The Manager, International Section, Transport Standards Branch, 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 Section, send it to the attention of the person identified in paragraph (j) of this AD. Information may be emailed to: [9-ANM-116-AMOC-REQUESTS@faa.gov](mailto: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.

(2) *Contacting the Manufacturer*: For any requirement in this AD to obtain instructions from a manufacturer, the instructions must be accomplished using a method approved by the Manager, International Section, Transport Standards Branch, FAA; or EASA; or Airbus SAS's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(3) *Required for Compliance (RC)*: For any service information referenced in EASA AD 2019-0140 that contains RC procedures and tests: Except as required by paragraph (i)(2) of this AD, RC 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.

**(j) Related Information**

For more information about this AD, contact Vladimir Ulyanov, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and

fax 206-231-3229; email [vladimir.ulyanov@faa.gov](mailto:vladimir.ulyanov@faa.gov).

**(k) 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) European Union Aviation Safety Agency (EASA) AD 2019-0140, dated June 12, 2019.

(ii) [Reserved]

(3) For information about EASA AD 2019-0140, contact the EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 89990 6017; email [ADS@easa.europa.eu](mailto:ADS@easa.europa.eu); Internet [www.easa.europa.eu](http://www.easa.europa.eu). You may find this EASA AD on the EASA website at <https://ad.easa.europa.eu>.

(4) You may view this material at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195. This material may be found in the AD docket on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2019-0713.

(5) You may view this material 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 February 27, 2020.

**Gaetano A. Sciortino,**

*Deputy Director for Strategic Initiatives, Compliance & Airworthiness Division, Aircraft Certification Service.*

[FR Doc. 2020-04998 Filed 3-11-20; 8:45 am]

**BILLING CODE 4910-13-P**

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

**[Docket No. FAA-2019-1053; Product Identifier 2018-SW-037-AD; Amendment 39-19863; AD 2020-05-11]**

**RIN 2120-AA64**

**Airworthiness Directives; Robinson Helicopter Company Helicopters**

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

**ACTION:** Final rule.

**SUMMARY:** The FAA is adopting a new airworthiness directive (AD) for Robinson Helicopter Company Model R44 and R44 II helicopters with an agricultural spray system installed by Supplemental Type Certificate (STC) SR00286BO (spray system). This spray system is also known as a Simplex

Manufacturing Company (Simplex) Model 244 spray system. This AD was prompted by a report of an in-flight failure of the spray system elbow pump fitting (pump fitting). This AD requires repetitive inspections of the spray system pump fitting, corrective action if necessary, replacement of the spray system pump fitting, and installation of hose supports and a pump outlet cover. The FAA is issuing this AD to address the unsafe condition on these products. **DATES:** This AD is effective April 16, 2020.

The Director of the Federal Register approved the incorporation by reference of certain publications listed in this AD as of April 16, 2020.

**ADDRESSES:** For service information identified in this final rule, contact Simplex Manufacturing Company, 13340 NE Whitaker Way, Portland, OR 97230; phone 503-257-3511; fax 503-257-8556; internet [www.simplex.aero](http://www.simplex.aero). 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. It is also available on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2019-1053.

**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-2019-1053; 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 service information that is incorporated by reference, any comments received, and other information. The address for Docket Operations is Docket Operations, 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:**

Chris Bonar, Aerospace Engineer, Airframe Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206-231-3521; email: [Christopher.Bonar@faa.gov](mailto:Christopher.Bonar@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 Robinson Helicopter Company Model R44 and R44 II helicopters with an agricultural spray system installed by STC SR00286BO with spray systems serial-numbered 0045 through 0178 inclusive. STC SR00286BO approves the installation of a Simplex spray system. The NPRM proposed to require a repetitive inspection until the pump fitting is modified. The NPRM published in the **Federal Register** on December 17, 2019 (84 FR 68817). The NPRM was prompted by a report of an in-flight failure of the spray system pump fitting. Following the issuance of a Simplex service letter, five additional reports of failed fittings were received. Failure of the pump fitting causes uncontrolled discharge of the spray liquid exiting the system pump. The pump output port is in direct alignment with the engine air intake, allowing the engine to ingest the spray liquid. This condition, if not addressed, could result in an in-flight engine shutdown.

#### Comments

The FAA gave the public the opportunity to participate in developing this final rule. The FAA received no comments on the NPRM or on the determination of the cost to the public.

#### Conclusion

The FAA reviewed the relevant data and determined that air safety and the public interest require adopting this final rule as proposed.

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

The FAA reviewed the following service information:

- Simplex Mfg Alert Service Bulletin ASB2017-001, Initial Release, dated March 28, 2017. This service information describes procedures for inspecting the spray system pump fitting to detect damage, including signs of stress, cracking, fatigue, and evidence of leaking.
- Simplex Mfg Service Letter SL2017-017, Revision B, dated March 14, 2018. This service information describes procedures for replacing the spray system pump fitting with an improved pump fitting and installing hose supports.
- Simplex Mfg Service Letter SL2017-030, Initial Release, dated March 12, 2018. This service information describes procedures for installing a pump outlet cover.

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.

#### Other Related Service Information

The FAA reviewed Simplex Mfg, Installation Manual, Simplex Manufacturing Co. HPR44 III Spray System for the Robinson R44 Series Helicopter, Installation Manual PM001-HPR44III-25-008, Revision 7, dated May 2, 2017. This service information specifies unpacking, installation, and system function test procedures.

The FAA also reviewed Simplex Mfg, Instructions for Continued Airworthiness (ICA), Simplex Manufacturing Co. HPR44 III Spray System for the Robinson R44 Series Helicopter, PM011-HPR44III-25-007 ICA, Revision 9, dated April 20, 2018. This service information specifies general, airworthiness limitation, inspection and maintenance, dimension and access, lifting and shoring, leveling and weighing, towing and taxiing, storing, placard and marking, servicing and lubricating, standard practice, and equipment and furnishing information.

#### Costs of Compliance

The FAA estimates that this AD affects 75 helicopters of U.S. registry. Labor costs are estimated at \$85 per work-hour. Based on these numbers, the FAA estimates the following costs to comply with this AD.

Inspecting the fitting takes about 0.1 work-hour for an estimated cost of \$9 per helicopter and \$675 for the U.S. fleet per inspection cycle. Replacing the fitting and installing the cushion clamp and hose supports takes about 1 work-hour with a nominal parts costs for an estimated cost of \$85 per helicopter and \$6,375 for the U.S. fleet. Installing the pump outlet cover takes about 1 work-hour and parts cost about \$300 for an estimated cost of \$385 per helicopter and \$28,875 for the U.S. fleet.

According to the manufacturer, some of the costs of this AD may be covered under warranty, thereby reducing the cost impact on affected individuals. The FAA does not control warranty coverage for affected individuals. As a result, all costs are included in this cost estimate.

#### 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 products 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 (AD):

**2020-05—11 Robinson Helicopter Company:**  
Amendment 39-19863; Docket No. FAA-2019-1053; Product Identifier 2018-SW-037-AD.

#### (a) Effective Date

This AD is effective April 16, 2020.

#### (b) Affected ADs

None.

#### (c) Applicability

This AD applies to Robinson Helicopter Company Model R44 and R44 II helicopters, certificated in any category, with an

agricultural spray system installed by Supplemental Type Certificate (STC) SR00286BO with spray systems serial-numbered 0045 through 0178 inclusive, installed.

**Note 1 to paragraph (c) of this AD:** STC SR00286BO approves the installation of Simplex Manufacturing Company Model 244 spray system (spray system). Earlier models of this system have a metal flanged fitting that is not affected by this AD.

**(d) Subject**

Joint Aircraft Service Component (JASC) Code: 2551, Agricultural Spray System.

**(e) Unsafe Condition**

This AD was prompted by a report of an in-flight failure of the spray system elbow pump fitting (pump fitting). The FAA is issuing this AD to prevent failure of the pump fitting, which could result in an in-flight engine shutdown.

**(f) Compliance**

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

**(g) Required Actions**

(1) Before further flight, and thereafter before each flight, visually inspect the spray system pump fitting for signs of stress, cracking, fatigue, and evidence of leaking by following the Accomplishment Instructions, paragraphs 1. through 4., of Simplex Mfg Alert Service Bulletin ASB2017-001, Initial Release, dated March 28, 2017 (ASB2017-001). If there is any sign of stress, cracking, fatigue, or evidence of leaking, before further flight, accomplish paragraph (g)(2) of this AD.

(2) Within 3 months, unless required before further flight by paragraph (g)(1) of this AD:

(i) Replace spray system pump fitting P/N P-58-0752-40 with fitting P/N 000-123847-000 and install cushion clamp P/N 000-115571-000 and cable tie hose supports by following the Accomplishment Instructions, paragraphs 1. through 6., of Simplex Mfg Service Letter SL2017-017, Revision B, dated March 14, 2018.

(ii) Install pump outlet cover P/N 244-302056-001 by following the Accomplishments Instructions, paragraphs 1. through 7., of Simplex Mfg Service Letter SL2017-030, Initial Release, dated March 12, 2018 (SL2017-030), except refer to Figure 2 when instructed to refer to Figure 1.

**Note 2 to paragraph (g)(2)(ii) of this AD:** SL2017-030 includes instructions that refer to a Figure 1; however, there is no Figure 1.

(iii) Pressurize the system and determine if the new fitting is functioning correctly by visually inspecting the spray system pump fitting for signs of stress, cracking, fatigue, and evidence of leaking by following the Accomplishment Instructions, paragraphs 1. through 4. of ASB2017-001. If there is any sign of stress, cracking, fatigue, or evidence of leaking, before further flight, remove from service the fitting, cushion clamp, cable tie hose supports, and pump outlet cover and replace with a new fitting, new cushion clamp, new cable tie hose supports, and new

pump outlet cover, and repeat the actions required by this paragraph.

(3) After the effective date of this AD, do not install a Simplex Model 244 spray system approved under STC SR00286BO with pump fitting P/N P-58-0752-40 on any Robinson Helicopter Company Model R44 or R44 II helicopter.

**(h) Alternative Methods of Compliance (AMOCs)**

(1) The Manager, Seattle ACO Branch, 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 manager of the certification office, send it to the attention of the person identified in paragraph (i) of this AD. Information may be emailed to: *9-ANM-Seattle-ACO-AMOC-Requests@faa.gov*.

(2) 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.

**(i) Related Information**

For more information about this AD, contact Chris Bonar, Aerospace Engineer, Airframe Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206-231-3521; email: *Christopher.Bonar@faa.gov*.

**(j) 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 the AD specifies otherwise.

(i) Simplex Mfg Alert Service Bulletin ASB2017-001, Initial Release, dated March 28, 2017.

(ii) Simplex Mfg Service Letter SL2017-017, Revision B, dated March 14, 2018.

(iii) Simplex Mfg Service Letter SL2017-030, Initial Release, dated March 12, 2018.

(3) For Simplex Mfg service information identified in this AD, contact Simplex Manufacturing Company, 13340 NE Whitaker Way, Portland, OR 97230; phone 503-257-3511; fax 503-257-8556; internet *www.simplex.aero*.

(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, email *fedreg.legal@nara.gov*, or go to: *https://www.archives.gov/federal-register/cfr/ibr-locations.html*.

Issued on March 6, 2020.

**Lance T. Gant,**

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

[FR Doc. 2020-05024 Filed 3-11-20; 8:45 am]

**BILLING CODE 4910-13-P**

**DEPARTMENT OF TRANSPORTATION**

**Federal Aviation Administration**

**14 CFR Part 39**

**[Docket No. FAA-2019-1093; Project Identifier AD-2019-00144-E; Amendment 39-21103; AD 2020-06-01]**

**RIN 2120-AA64**

**Airworthiness Directives; CFM International, S.A., Turbofan Engines**

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

**ACTION:** Final rule.

**SUMMARY:** The FAA is adopting a new airworthiness directive (AD) for all CFM International S.A. (CFM) LEAP-1B21, -1B23, -1B25, -1B27, -1B28, -1B28B1, -1B28B2, -1B28B2C, -1B28B3, -1B28BBJ1, and -1B28BBJ2 model turbofan engines. This AD was prompted by reports of two new unsafe conditions and the need to supersede corrective actions for two previously addressed unsafe conditions. This AD supersedes AD 2018-25-09 and AD 2019-12-01, which apply to the affected LEAP-1B model turbofan engines. This AD requires revising the Airworthiness Limitations Section (ALS) of the applicable CFM LEAP-1B Engine Shop Manual and the operator's approved continuous airworthiness maintenance program. The FAA is issuing this AD to address the unsafe conditions on these products.

**DATES:** This AD is effective April 16, 2020.

The Director of the Federal Register approved the incorporation by reference of certain publications listed in this AD as of April 16, 2020.

**ADDRESSES:** For service information identified in this final rule, contact CFM International, Inc., Aviation Operations Center, 1 Neumann Way, M/D Room 285, Cincinnati, OH 45125; phone: 877-432-3272; fax: 877-432-3329; email: *aviation.fleetsupport@ge.com*. You may view this service information at the FAA, Engine and Propeller Standards Branch, 1200 District Avenue, Burlington, MA 01803. For information on the availability of this material at the FAA, call 781-238-7759. It is also available on the internet at *https://www.regulations.gov* by searching for