FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES

SMALL AIRCRAFT, ROTORCRAFT, GLIDERS
BALLOONS, AIRSHIPS, AND UAS

BIWEEKLY 2023-07

03/13/2023 - 03/26/2023

Federal Aviation Administration
Continued Operational Safety Policy Section, AIR-141
P.O. Box 25082
Oklahoma City, OK 73125-0460

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SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability

Information Key: E- Emergency; COR - Correction; R - Replaces, A- Affects

Biweekly 2023-01

2022-26-01		GE Aviation Czech s.r.o.	M601D-11,M601E-11,M601E-11A,M601E-11AS,M601E-11S,M601F,H75-100,H75-200,H80,H80-100,H80-200,H85-100,H85-200
2022-27-03		Leonardo S.p.a.	AB139,AW139
2022-27-08		Bell Textron Canada Limited	407

Biweekly 2023-02

2022-27-09		Airbus Helicopters	EC130T2
2023-01-02		Leonardo S.p.a.	A109,A109A,A109A II,A109C,A109E,A109K2,A109S,AW109SP

Biweekly 2023-03

2023-01-07		GE Aviation Czech s.r.o.	H75-100,H75-200,H80,H80-100,H80-200,H85-100,H85-200
2023-01-11		Safran Helicopter Engines S.A.	Makila 1A,Makila 1A1
2023-01-12		Safran Helicopter Engines S.A.	Arriel 1C,Arriel 1C1,Arriel 1C2
2023-02-03	R 2022-01-09	Stemme AG	Stemme S 10-VT,Stemme S 12
2023-02-04		Mooney International Corporation	M20C,M20D,M20E,M20F,M20G

Biweekly 2023-04

2023-01-04		Airbus Helicopters	AS350B,AS350BA,AS350B1,AS350B2,AS350B3,AS350D,AS355E,AS355F,AS355F1,AS355F2,AS355N,AS355NP
2023-01-07		GE Aviation Czech s.r.o.	H75-100,H75-200,H80,H80-100,H80-200,H85-100,H85-200
2023-01-08		Continental Aerospace Technologies GmbH	TAE 125-02-99,TAE 125-02-114
2023-01-10		GE Aviation Czech s.r.o.	M601E-11,M601E-11A,M601E-11AS,M601E-11S,M601F
2023-02-12		Continental Aerospace Technologies Inc.	GTSIO-520-C,GTSIO-520-D,GTSIO-520-E,GTSIO-520-F,GTSIO-520-H,GTSIO-520-K,GTSIO-520-L,GTSIO-520-M,GTSIO-520-N,IO-470-A,IO-470-C,IO-470-D,IO-470-E,IO-470-F,IO-470-G,IO-470-H,IO-470-J,IO-470-K,IO-470-L,IO-470-LO,IO-470-M,IO-470-N,IO-470-P,IO-470-R,IO-470-S,IO-470-T,IO-470-U,IO-470-V,IO-470-VO,IO-520-A,IO-520-B,IO-520-BA,IO-520-BB,IO-520-C,IO-520-CB,IO-520-D,IO-520-E,IO-520-F,IO-520-J,IO-520-K,IO-520-L,IO-520-M,IO-520-MB,IO-520-N,IO-520-NB,IO-520-P,IO-550-A,IO-550-B,IO-550-C,IO-550-D,IO-550-E,IO-550-F,IO-550-G,IO-550-L,IO-550-N,IO-550-P,IO-550-R,IOF-550-B,IOF-550-C,IOF-550-D,IOF-550-E,IOF-550-F,IOF-550-L,IOF-550-P,IOF-550-R,LIO-470-A,LIO-520-P,LTSIO-520-AE,O-470-A,O-470-E,O-470-G,O-470-G-CI,O-470-H,O-470-J,O-470-K,O-470-K-CI,O-470-L,O-470-L-CI,O-470-M,O-470-M-CI,O-470-N,O-470-P,O-470-R,O-470-S,O-470-T,O-470-U,TSIO-470-B,TSIO-470-C,

SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability

Information Key: E- Emergency; COR - Correction; R - Replaces, A- Affects

			TSIO-470-D,TSIO-520-A,TSIO-520-AE,TSIO-520-AF,TSIO-520-B,TSIO-520-BB,TSIO-520-BE,TSIO-520-C,TSIO-520-CE,TSIO-520-D,TSIO-520-DB,TSIO-520-E,TSIO-520-EB,TSIO-520-G,TSIO-520-H,TSIO-520-J,TSIO-520-JB,TSIO-520-K,TSIO-520-KB,TSIO-520-L,TSIO-520-LB,TSIO-520-M,TSIO-520-N,TSIO-520-NB,TSIO-520-P,TSIO-520-R,TSIO-520-T,TSIO-520-U,TSIO-520-UB,TSIO-520-VB,TSIO-520-WB,TSIO-550-A,TSIO-550-B,TSIO-550-C,TSIO-550-E,TSIO-550-G,TSIO-550-K,TSIOF-550-D,TSIOF-550-J,TSIOF-550-K,TSIOL-550-A,TSIOL-550-C
2023-03-01		Airbus Helicopters Deutschland GmbH	BO-105A,BO-105C,BO-105S,BO-105LS A-1,BO-105LS A-3,MBB-BK 117 A-1,MBB-BK 117 A-3,MBB-BK 117 A-4,MBB-BK 117 B-1,MBB-BK 117 B-2,MBB-BK 117 C-1,MBB-BK 117 C-2,MBB-BK 117 D-2
2023-03-10		Schempp-Hirth Flugzeugbau GmbH	Duo-Discus,Duo Discus T
Biweekly 2023-05			
2023-01-07		GE Aviation Czech s.r.o.	H75-100,H75-200,H80,H80-100,H80-200,H85-100,H85-200
2023-02-17		Textron Aviation Inc.	210N,210R,P210N,P210R,T210N,T210R,177,177A,177B,177RG,F177RG
2023-03-02		Pratt & Whitney Canada Corp.	PT6E-67XP
2023-03-03		Leonardo S.p.a.	AB139,AW139
2023-03-12	R 2004-04-09	Pratt & Whitney Canada Corp.	JT15D-1,JT15D-1A,JT15D-1B
2023-03-13		Airbus Helicopters	AS355E,AS355F,AS355F1,AS355F2,AS355N
2023-04-08		Continental Aerospace Technologies, Inc. (Continental®)	GTSIO-520-C,GTSIO-520-D,GTSIO-520-H,GTSIO-520-K,GTSIO-520-L,GTSIO-520-M,GTSIO-520-N,GTSIO-520-S,IO-360-A,IO-360-AB,IO-360-AF,IO-360-C,IO-360-CB,IO-360-D,IO-360-DB,IO-360-E,IO-360-ES,IO-360-G,IO-360-GB,IO-360-H,IO-360-HB,IO-360-J,IO-360-JB,IO-360-K,IO-360-KB,IO-470-D,IO-470-E,IO-470-G,IO-470-H,IO-470-J,IO-470-K,IO-470-L,IO-470-M,IO-470-N,IO-470-P,IO-470-R,IO-470-S,IO-470-T,IO-470-U,IO-470-V,IO-470-VO,IO-520-A,IO-520-B,IO-520-BA,IO-520-BB,IO-520-C,IO-520-CB,IO-520-D,IO-520-E,IO-520-F,IO-520-J,IO-520-K,IO-520-L,IO-520-M,IO-520-MB,IO-550-A,IO-550-B,IO-550-C,IO-550-D,IO-550-E,IO-550-F,IO-550-G,IO-550-L,IO-550-N,IO-550-P,IO-550-R,LTSIO-360-E,LTSIO-360-EB,LTSIO-360-KB,LTSIO-360-RB,LTSIO-520-AE,O-470-A,O-470-B,O-470-E,O-470-G,O-470-H,O-470-J,O-470-K,O-470-L,O-470-M,O-470-N,O-470-R,O-470-S,O-470-T,O-470-U,TSIO-360-A,TSIO-360-AB,TSIO-360-B,TSIO-360-BB,TSIO-360-C,TSIO-360-CB,TSIO-360-D,TSIO-360-DB,

SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability

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			TSIO-360-E,TSIO-360-EB,TSIO-360-G,TSIO-360-GB,TSIO-360-H,TSIO-360-HB,TSIO-360-JB,TSIO-360-KB,TSIO-360-LB,TSIO-360-MB,TSIO-360-RB,TSIO-360-SB,TSIO-520-A,TSIO-520-AE,TSIO-520-AF,TSIO-520-B,TSIO-520-BB,TSIO-520-BE,TSIO-520-C,TSIO-520-CE,TSIO-520-D,TSIO-520-DB,TSIO-520-E,TSIO-520-EB,TSIO-520-G,TSIO-520-H,TSIO-520-J,TSIO-520-JB,TSIO-520-K,TSIO-520-KB,TSIO-520-L,TSIO-520-LB,TSIO-520-M,TSIO-520-NB,TSIO-520-P,TSIO-520-R,TSIO-520-T,TSIO-520-UB,TSIO-520-VB,TSIO-520-WB,TSIO-550-A,TSIO-550-B,TSIO-550-C,TSIO-550-E,TSIO-550-G,TSIO-550-K,TSIO-550-N,TSIOF-550-K,TSIOL-550-A,TSIOL-550-B,TSIOL-550-C
Biweekly 2023-06			
2023-03-14		Schempp-Hirth Flugzeugbau GmbH	Duo-Discus,Duo Discus T
2023-03-22	R 2015-09-04 R1	DG Flugzeugbau GmbH,Schempp-Hirth Flugzeugbau GmbH	DG-1000T,Duo Discus T
2023-04-20		Cirrus Design Corporation	SF50
Biweekly 2023-07			
2023-05-03	R 2022-14-14	Alexander Schleicher GmbH & Co. Segelflugzeugbau	ASW -15,ASW-15B
2023-05-09		Airbus Helicopters Deutschland GmbH	EC135P3,EC135T3,MBB-BK 117 D-2,MBB-BK 117 D-3
2023-05-16	R 2023-04-08	Continental Aerospace Technologies Inc.	GTSIO-520-C,GTSIO-520-D,GTSIO-520-H,GTSIO-520-K,GTSIO-520-L,GTSIO-520-M,GTSIO-520-N,GTSIO-520-S,IO-360-A,IO-360-AB,IO-360-AF,IO-360-C,IO-360-CB,IO-360-D,IO-360-DB,IO-360-E,IO-360-ES,IO-360-G,IO-360-GB,IO-360-H,IO-360-HB,IO-360-J,IO-360-JB,IO-360-K,IO-360-KB,IO-470-A,IO-470-C,IO-470-D,IO-470-E,IO-470-F,IO-470-G,IO-470-H,IO-470-J,IO-470-K,IO-470-L,IO-470-LO,IO-470-M,IO-470-N,IO-470-P,IO-470-R,IO-470-S,IO-470-T,IO-470-U,IO-470-V,IO-470-VO,IO-520-A,IO-520-B,IO-520-BA,IO-520-BB,IO-520-C,IO-520-CB,IO-520-D,IO-520-E,IO-520-F,IO-520-J,IO-520-K,IO-520-L,IO-520-M,IO-520-MB,IO-550-A,IO-550-B,IO-550-C,IO-550-D,IO-550-E,IO-550-F,IO-550-G,IO-550-L,IO-550-N,IO-550-P,IO-550-R,LTSIO-360-E,LTSIO-360-EB,LTSIO-360-KB,LTSIO-360-RB,LTSIO-520-AE,O-470-A,O-470-B,O-470-E,O-470-G,O-470-H,O-470-J,O-470-K,O-470-L,O-470-M,O-470-N,O-470-R,O-470-S,O-470-T,O-470-U,TSIO-360-A,TSIO-360-AB,TSIO-360-B,TSIO-360-BB,TSIO-360-C,TSIO-360-CB,TSIO-360-D,TSIO-360-DB,TSIO-360-E,TSIO-360-EB,TSIO-360-F,TSIO-360-FB,TSIO-360-G,TSIO-360-

SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability

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			GB,TSIO-360-H,TSIO-360-HB,TSIO-360-JB,TSIO-360-KB,TSIO-360-LB,TSIO-360-MB,TSIO-360-RB,TSIO-360-SB,TSIO-520-A,TSIO-520-AE,TSIO-520-AF,TSIO-520-B,TSIO-520-BB,TSIO-520-BE,TSIO-520-C,TSIO-520-CE,TSIO-520-D,TSIO-520-DB,TSIO-520-E,TSIO-520-EB,TSIO-520-G,TSIO-520-H,TSIO-520-J,TSIO-520-JB,TSIO-520-K,TSIO-520-KB,TSIO-520-L,TSIO-520-LB,TSIO-520-M,TSIO-520-NB,TSIO-520-P,TSIO-520-R,TSIO-520-T,TSIO-520-UB,TSIO-520-VB,TSIO-520-WB,TSIO-550-A,TSIO-550-B,TSIO-550-C,TSIO-550-E,TSIO-550-G,TSIO-550-K,TSIO-550-N,TSIOF-550-K,TSIOL-550-A,TSIOL-550-B,TSIOL-550-C
2023-06-11		Viking Air Limited	DHC-2 Mk.I

PART 39-AIRWORTHINESS DIRECTIVES

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

[Amended]

The FAA amends §39.13 by:

Removing Airworthiness Directive AD 2022-14-14, Amendment 39-22119 (, July 21, 2022); and

Adding the following new airworthiness directive:

2023-05-03 Alexander Schleicher GmbH & Co. Segelflugzeugbau: Amendment 39-22372; Docket No. FAA-2022-1303; Project Identifier MCAI-2022-01001-G.

(a) Effective Date

This airworthiness directive (AD) is effective April 18, 2023.

(b) Affected ADs

This AD replaces AD 2022-14-14, Amendment 39-22119 (, July 21, 2022) (AD 2022-14-14).

(c) Applicability

This AD applies to Alexander Schleicher GmbH & Co. Segelflugzeugbau Model ASW-15 and ASW-15B gliders, all serial numbers, certificated in any category, equipped with wooden wing root ribs.

(d) Subject

Joint Aircraft System Component (JASC) Code 5712, Wing, Rib/Bulkhead.

(e) Unsafe Condition

This AD was prompted by mandatory continuing airworthiness information (MCAI) originated by an aviation authority of another country to identify and correct an unsafe condition on an aviation product. The MCAI describes the unsafe condition as wing root rib damage. The FAA is issuing this AD to detect and correct damaged root ribs. The unsafe condition, if not addressed, could result in reduced structural integrity of the wing assembly, which could lead to loss of control of the glider.

(f) Compliance

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

(g) Required Actions

(1) For Model ASW-15 gliders: Within 30 days after August 25, 2022 (effective date of AD 2022-14-14), and thereafter at intervals not to exceed 12 months, inspect all wing root ribs (4 places) for cracks, looseness, and damage, in accordance with the Action section in Alexander Schleicher GmbH & Co. Segelflugzeugbau ASW 15 Maintenance Instruction G, Issue 1, dated June 28, 2021. If there is a crack in any root rib, a loose rib or lift pin bushing, or any damage, before further flight, replace the root rib in accordance with Action paragraph (B) in Alexander Schleicher GmbH & Co. Segelflugzeugbau ASW 15 Technical Note 29, dated June 28, 2021, and steps 1 through 7 in Alexander Schleicher GmbH & Co. Segelflugzeugbau ASW 15 Repair instruction exchange of wing root ribs according to TN 29, dated June 28, 2021; or Action paragraph (C) in Alexander Schleicher GmbH & Co. Segelflugzeugbau ASW 15 Technical Note 29, Issue II, dated May 4, 2022, and steps 1 through 7 in Alexander Schleicher GmbH & Co. Segelflugzeugbau ASW 15 Repair instruction exchange of wing root ribs according to TN 29, dated June 28, 2021.

(2) For Model ASW-15B gliders: Within 30 days after the effective date of this AD and thereafter at intervals not to exceed 12 months, inspect all wing root ribs (4 places) for cracks, looseness, and damage, in accordance with the Action section in Alexander Schleicher GmbH & Co. Segelflugzeugbau ASW 15 Maintenance Instruction G, Issue 1, dated June 28, 2021. If there is a crack in any root rib, a loose rib or lift pin bushing, or any damage, before further flight, replace the root rib in accordance with Action paragraph (C) in Alexander Schleicher GmbH & Co. Segelflugzeugbau ASW 15 Technical Note 29, Issue II, dated May 4, 2022, and steps 1 through 7 in Alexander Schleicher GmbH & Co. Segelflugzeugbau ASW 15 Repair instruction exchange of wing root ribs according to TN 29, dated June 28, 2021.

(3) For Model ASW-15 and ASW-15B gliders: Replacing all four wing root ribs with new ribs is terminating action for the repetitive inspections required by this AD.

(h) Alternative Methods of Compliance (AMOCs)

The Manager, International Validation Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in §39.19. In accordance with §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 International Validation Branch, mail it to the address identified in paragraph (i)(2) of this AD or email to: . If mailing information, also submit information by email. 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) Additional Information

(1) Refer to European Union Aviation Safety Agency (EASA) AD 2022-0146, dated July 11, 2022, for related information. This EASA AD may be found in the AD docket at *regulations.gov* under Docket No. FAA-2022-1303.

(2) For more information about this AD, contact Jim Rutherford, Aviation Safety Engineer, General Aviation & Rotorcraft Section, International Validation Branch, FAA, 901 Locust, Room 301, Kansas City, MO 64106; phone: (816) 329-4165; email: .

(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 and .

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

(3) The following service information was approved for IBR on April 18, 2023.

(i) Alexander Schleicher GmbH & Co. Segelflugzeugbau ASW 15 Technical Note 29, Issue II, dated May 4, 2022.

(ii) [Reserved]

(4) The following service information was approved for IBR on August 25, 2022 (, July 21, 2022).

(i) Alexander Schleicher GmbH & Co. Segelflugzeugbau ASW 15 Maintenance Instruction G, Issue 1, dated June 28, 2021.

(ii) Alexander Schleicher GmbH & Co. Segelflugzeugbau ASW 15 Repair instruction exchange of wing root ribs according to TN 29, dated June 28, 2021.

(iii) Alexander Schleicher GmbH & Co. Segelflugzeugbau ASW 15 Technical Note 29, dated June 28, 2021.

(5) For service information identified in this AD, contact Alexander Schleicher GmbH & Co. Segelflugzeugbau, Alexander-Schleicher-Str. 1, Poppenhausen, Germany D-36163; phone: +49 (0) 06658 89-0; email: *;* website: *alexander-schleicher.de*.

(6) You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 901 Locust, Kansas City, MO 64106. For information on the availability of this material at the FAA, call (817) 222-5110.

(7) 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: , or go to: .

Issued on March 5, 2023.

Christina Underwood,

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

[Filed 3-13-23; 8:45 am]

BILLING CODE 4910-13-P

PART 39-AIRWORTHINESS DIRECTIVES

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

[Amended]

The FAA amends §39.13 by adding the following new airworthiness directive:

2023-05-09 Airbus Helicopters Deutschland GmbH (AHD): Amendment 39-22378; Docket No. FAA-2023-0430; Project Identifier MCAI-2022-01092-R.

(a) Effective Date

This airworthiness directive (AD) is effective March 31, 2023.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Airbus Helicopters Deutschland GmbH (AHD) Model EC135P3 and EC135T3 helicopters with Helionix installed, and Model MBB-BK 117 D-2 and MBB-BK 117 D-3 helicopters, certificated in any category.

Note 1 to paragraph (c):

Helicopters with an EC135P3H or EC135T3H designation are Model EC135P3 helicopters or Model EC135T3 helicopters with Helionix installed, respectively.

(d) Subject

Joint Aircraft System Component (JASC) Code: 3197, Instrument System Wiring.

(e) Unsafe Condition

This AD was prompted by reports of multiple multi-function display (MFD) failures during flight. The FAA is issuing this AD to address failure of an MFD and consequent loss of display information during flight. The unsafe condition, if not addressed, could result in the unexpected loss of display of important flight parameters to the pilots, which could result in loss of control of the helicopter.

(f) Compliance

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

(g) Requirements

(1) Except as specified in paragraph (h) of this AD: Comply with all required actions and compliance times specified in, and in accordance with, paragraphs (1), (2), (4), and (5) of European Union Aviation Safety Agency (EASA) AD 2022-0168, dated August 12, 2022 (EASA AD 2022-0168).

(2) Within 7 days after the effective date of this AD, revise the existing Rotorcraft Flight Manual (RFM) for your helicopter by incorporating the RFM emergency procedure in Figure 1 or Figure 2 to paragraph (g)(2) of this AD as applicable to your model helicopter. Revising the existing RFM for your helicopter by updating the emergency procedures section may be performed by the owner/operator (pilot) holding at least a private pilot certificate and must be entered into the aircraft records showing compliance with this AD in accordance with and . The record must be maintained as required by , , or .

Figure 1 to Paragraph (g)(2): RFM Emergency Procedure-Model MBB-BK117 Helicopters

Figure 2 to Paragraph (g)(2): RFM Emergency Procedure-Model EC135 Helicopters

(3) After the actions required by paragraph (g)(1) of this AD have been done, no alternative requirements (inspections) are allowed unless they are approved as specified in the provisions of the “Ref. Publications” section of EASA AD 2022-0168.

(h) Exceptions to EASA AD 2022-0168

(1) Where EASA AD 2022-0168 requires compliance in terms of flight hours, this AD requires using hours time-in-service.

(2) Where EASA AD 2022-0168 refers to July 15, 2022 (the effective date of EASA AD 2022-0143 dated July 8, 2022) or its effective date, this AD requires using the effective date of this AD.

(3) Where paragraph (1) of EASA AD 2022-0168 specifies “accomplish a check in accordance with the maintenance mode test procedure, and in accordance with the operational mode test procedure, as defined in this AD” for this AD, replace that text with “accomplish an inspection in accordance with the maintenance mode test procedure, and in accordance with the operational mode test procedure, as defined in this AD.”

(4) Where paragraph (2) of EASA AD 2022-0168 specifies “if, during any check as required by paragraph (1) of this AD,” replace that text with “if, during any inspection as required by paragraph (1) of this AD.”

(5) Where the service information referenced in EASA AD 2022-0168 permits certain actions to be performed by a pilot or equivalent with the correct training and accreditation, this AD requires those actions to be accomplished by persons authorized under .

(6) Where paragraph (4) of EASA AD 2022-0168 specifies to “inform all flight crews and, thereafter, operate the helicopter accordingly,” this AD does not require those actions.

(7) Where the service information referenced in EASA AD 2022-0168 specifies “If the continuity test is not satisfactory, check and repair the associated wires;” for this AD, replace that text with “If the continuity test is not satisfactory, inspect and repair the associated wires.”

(8) Where the service information referenced in EASA AD 2022-0168 specifies-contacting Airbus Helicopters for a technical solution, this AD requires corrective action done in accordance with a method

approved by the Manager, General Aviation & Rotorcraft Section, International Validation Branch, FAA; or EASA; or Airbus Helicopters Deutschland GmbH's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(i) Special Flight Permits

Special flight permits are prohibited for flights in Instrument Meteorological Conditions (IMC) and Night Visual Meteorological Conditions (VMC).

(j) Alternative Methods of Compliance (AMOCs)

(1) The Manager, International Validation Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in . In accordance with , send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the International Validation Branch, send it to the attention of the person identified in paragraph (k) of this AD. Information may be emailed to: .

(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.

(k) Related Information

For more information about this AD, contact Kristi Bradley, Program Manager, COS Program Management Section, Operational Safety Branch, Compliance & Airworthiness Division, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone (817) 222-5110; email .

(l) 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 and .

(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 2022-0168, dated August 12, 2022.

(ii) [Reserved]

(3) For EASA AD 2022-0168, contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 8999 000; email *;* internet *easa.europa.eu.* You may find the EASA material on the EASA website at *ad.easa.europa.eu.*

(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 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 , or go to: .

Issued on March 10, 2023.

Christina Underwood,

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

BILLING CODE 4910-13-P

BILLING CODE 4910-13-C

[Filed 3-14-23; 8:45 am]

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PART 39-AIRWORTHINESS DIRECTIVES

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

[Amended]

The FAA amends §39.13 by:

Removing Airworthiness Directive 2023-04-08, Amendment 39-22355 (, February 23, 2023); and

Adding the following new airworthiness directive:

2023-05-16 Continental Aerospace Technologies, Inc.: Amendment 39-22385; Docket No. FAA-2023-0435; Project Identifier AD-2023-00384-E.

(a) Effective Date

This airworthiness directive (AD) is effective March 15, 2023.

(b) Affected ADs

This AD replaces AD 2023-04-08, Amendment 39-22355 (, February 23, 2023).

(c) Applicability

This AD applies to Continental Aerospace Technologies, Inc. (Continental) GTSIO-520-C, -D, -H, -K, -L, -M, -N, and -S; IO-360-A, -AB, -AF, -C, -CB, -D, -DB, -E, -ES, -G, -GB, -H, -HB, -J, -JB, -K, and -KB; IO-470-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, and -VO; IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, and -MB; IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, and -R; LTSIO-360-E, -EB, -KB, and -RB; LTSIO-520-AE; O-470-A, -B, -E, -G, -H, -J, -K, -L, -M, -N, -R, -S, -T, and -U; TSIO-360-A, -AB, -B, -BB, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, -HB, -JB, -KB, -LB, -MB, -RB, and -SB; TSIO-520-A, -AE, -AF, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -NB, -P, -R, -T, -UB, -VB, and -WB; TSIO-550-A, -B, -C, -E, -G, -K, and -N; TSIOF-550-K; and TSIOL-550-A, -B, and -C model reciprocating engines.

(d) Subject

Joint Aircraft System Component (JASC) Code 8520, Reciprocating Engine Power Section.

(e) Unsafe Condition

This AD was prompted by a report of a quality escape involving improper installation of counterweight retaining rings in the counterweight groove during manufacture. The FAA is issuing this AD to prevent departure of counterweight and retaining hardware from the crankshaft assembly. The unsafe condition, if not addressed, could result in loss of engine oil pressure, catastrophic engine damage, engine seizure, and consequent loss of the aircraft.

(f) Compliance

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

(g) Required Action

For affected engines with an installed crankshaft assembly identified in paragraphs (g)(1) or (2) of this AD, before further flight, do the actions identified in, and in accordance with paragraph III, Action Required, of Continental Mandatory Service Bulletin MSB23-01, Revision A, dated February 16, 2023 (MSB23-01A).

(1) Crankshaft assembly having a crankshaft serial number listed in Appendix 1 of MSB23-01A; or

(2) Crankshaft assembly that was repaired or installed on or after June 1, 2021, having a part number and crankshaft serial number listed in Appendix 2 of MSB23-01A.

(h) Exception to the Service Information

Where paragraph III.1.a. of MSB23-01A specifies actions for spare crankshaft assemblies, this AD does not require those actions.

(i) Parts Installation Prohibition

After the effective date of this AD, do not install on any engine a crankshaft assembly having a crankshaft serial number identified in Appendix 1 or Appendix 2 of MSB23-01A, unless the actions required by paragraph (g) of this AD have first been accomplished for that crankshaft assembly.

(j) Credit for Previous Actions

This paragraph provides credit for the actions specified in paragraph (g) of this AD, if those actions were performed before the effective date of this AD using Continental Mandatory Service Bulletin MSB23-01, dated February 13, 2023.

(k) Special Flight Permit

Special flight permits may be issued in accordance with and to only permit a one-time, non-revenue ferry flight to operate the aircraft to a location where the maintenance actions can be performed, provided that the engine first undergoes, or has undergone within the previous five flight hours, an oil change and filter/screen replacement that was accomplished by an appropriately rated mechanic or repair station, and any material found in the spent oil and oil filter pleats or oil screen has been evaluated to assess the engine's condition.

Note 1 to paragraph (k) of this AD:

Guidance for accomplishing the actions required by paragraph (k) of this AD can be found in Section 6-4.8.2 and Section 6-4.8.5.1 of Continental Aerospace Technologies Standard Practice Maintenance Manual, Revision 1, Change 3, dated January 6, 2023 (also known as M-0).

(l) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Atlanta ACO Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in . In accordance with , 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 (m)(1) of this AD.

(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.

(m) Related Information

(1) For more information about this AD, contact Nicholas Reid, Aviation Safety Engineer, Atlanta ACO Branch, FAA, 1701 Columbia Avenue, College Park, GA 30337; phone: (404) 474-5650; email: .

(2) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (n)(4) and (5) of this AD.

(n) 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 and .

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

(3) The following service information was approved for IBR on February 23, 2023 (, February 23, 2023).

(i) Continental Aerospace Technologies, Inc. Mandatory Service Bulletin MSB23-01, Revision A, dated February 16, 2023.

(ii) [Reserved]

(4) For Continental service information identified in this AD, contact Continental Aerospace Technologies, Inc., 2039 South Broad Street, Mobile, AL 36615; phone: (251) 308-9100; email: *;* website: *continental.aero.*

(5) You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 1200 District Avenue, Burlington, MA 01803. For information on the availability of this material at the FAA, call (817) 222-5110.

(6) 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: , or go to: .

Issued on March 9, 2023.

Christina Underwood,

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

[Filed 3-13-23; 8:45 am]

BILLING CODE 4910-13-P

PART 39-AIRWORTHINESS DIRECTIVES

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

[Amended]

The FAA amends §39.13 by adding the following new airworthiness directive:

2023-06-11 Viking Air Limited (Type Certificate Previously Held by Bombardier Inc. and de Havilland Inc.): Amendment 39-22397; Docket No. FAA-2022-0814; Project Identifier AD-2022-00205-A.

(a) Effective Date

This airworthiness directive (AD) is effective April 28, 2023.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Viking Air Limited (type certificate previously held by Bombardier Inc. and de Havilland Inc.) Model DHC-2 Mk. I airplanes, all serial numbers, certificated in any category, with Supplemental Type Certificate (STC) No. SA01324CH installed.

(d) Subject

Joint Aircraft System Component (JASC) Code 5711, Wing Spar.

(e) Unsafe Condition

This AD was prompted by a report of damage in the main wing spar. The FAA is issuing this AD to detect and address damage (drill starts, corrosion, cracks, and improperly installed fasteners) to the main structural members of the wing. This condition, if not addressed, could adversely affect the structural integrity of the airplane and result in loss of control of the airplane.

(f) Compliance

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

(g) Required Actions

Within 12 months after the effective date of this AD, using a borescope, flashlight and mirror, or equivalent, visually inspect the aircraft structure under the installed doubler between wing stations 30.26 and 126.36 for drill starts, corrosion, cracks, and improperly installed fasteners. Pay particular attention to the spar cap, spar flange, and stringers, and include all structural items in the wing. If there is a drill start, any corrosion, a crack, or an improperly installed fastener, before further flight, repair using a method approved by the

Manager, Chicago ACO Branch, FAA. For a repair method to be approved by the Manager, Chicago ACO Branch, as required by this paragraph, the Manager's approval letter must specifically refer to this AD.

Note 1 to paragraph (g): Wipaire, Inc., letter, dated September 7, 2021, provides additional information on this subject, including examples of damage.

(h) Reporting Requirement

If, during the inspection required by paragraph (g) of this AD, any damage is found, within 30 days after doing the inspection or within 30 days after the effective date of this AD, whichever occurs later, report the following information to the person identified in paragraph (k)(1) of this AD:

(1) Name and address of owner.

(2) Date of the inspection.

(3) Name, address, telephone number, and email address of person submitting the report.

(4) Airplane serial number, registration number, STC installation date, and total hours time-in-service on the airplane at the time of the inspection.

(5) Description of damage. Include affected structure, location, dimensions, and photos of damage (or sketches, if photos are not possible).

(i) Special Flight Permit

Special flight permits are prohibited.

(j) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Chicago ACO Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in . In accordance with , 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 (k)(1) of this AD.

(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.

(k) Related Information

(1) For more information about this AD, contact Tim Eichor, Aviation Safety Engineer, Chicago ACO Branch, FAA, 2300 E Devon Avenue, Des Plaines, IL 60018; phone: (847) 294-7141; email: .

(2) For service information identified in this AD that is not incorporated by reference, contact Wipaire, Inc., 1700 Henry Avenue, Fleming Field (KSGS), South St. Paul, MN 55075; phone: (651) 451-1205; fax: (651) 457-7858; email: *;* website: wipaire.com. You may view this referenced service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 901 Locust, Kansas City, MO 64106. For information on the availability of this material at the FAA, call (817) 222-5110.

(l) Material Incorporated by Reference

None.

Issued on March 20, 2023.

Christina Underwood,

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

[Filed 3-23-23; 8:45 am]

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