FEDERAL AVIATION ADMINISTRATION AIRWORTHINESS DIRECTIVES

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

BIWEEKLY 2023-03

01/16/2023 - 01/29/2023



Federal Aviation Administration
Continued Operational Safety Policy Section, AIR-141
P.O. Box 25082
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SMALL AIRCRAFT

SWIALL AIRCRAF I							
AD No.	Information	Manufacturer	Applicability				
	Information Key: E- Em	ergency; COR - Correction; R - Replaces, A- Affects	<u> </u>				
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				

Mooney International Corporation

Stemme S 10-VT,Stemme S 12

M20C,M20D,M20E,M20F,M20G

Stemme AG

2023-02-03

2023-02-04

R 2022-01-09

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

[Amended]

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

2023-01-07 GE Aviation Czech s.r.o (**Type Certificate previously held by WALTER Engines a.s., Walter a.s., and MOTORLET a.s.):** Amendment 39-22301; Docket No. FAA-2022-1302; Project Identifier MCAI-2022-00062-E.

(a) Effective Date

This airworthiness directive (AD) is February 21, 2023.

(b) Affected ADs

None.

(c) Applicability

This AD applies to GE Aviation Czech s.r.o. (Type Certificate previously held by WALTER Engines a.s., Walter a.s., and MOTORLET a.s.) H75-100, H75-200, H80, H80-100, H80-200, H85-100, and H85-200 model turboprop engines.

(d) Subject

Joint Aircraft System Component (JASC) Code 7200, Engine (Turbine/Turboprop).

(e) Unsafe Condition

This AD was prompted by the manufacturer revising the airworthiness limitations section (ALS) of the existing engine maintenance manual (EMM) to introduce updated coefficients for the calculation of the cyclic life and safe life for the main shaft. The FAA is issuing this AD to prevent failure of the engine. The unsafe condition, if not addressed, could result in uncontained release of a critical part, damage to the engine, and damage to the airplane.

(f) Compliance

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

(g) Required Actions

(1) Within 90 days of the effective date of this AD, revise the ALS of the existing EMM and the existing approved maintenance or inspection program, as applicable, to incorporate the information in Table 1 to paragraph (g)(1) of this AD and recalculate the cycles accumulated on critical parts.

Table 1 to Paragraph (g)(1)-Equivalent Cyclic Life (N) and Safe Life of Critical Parts

Description	Drawing No.	Abbreviated flight cycle coefficient		Flight mission coefficient	Equivalent cyclic life limit
		$\mathbf{A}_{\mathbf{V}}$	A _P	L	N
Main Shaft	M601- 1017.75	0.47		1.05	16,000

- (2) After performing the action required by paragraph (g)(1) of this AD, except as provided in paragraph (h) of this AD, no alternative life limits may be approved.
- (3) The action required by paragraph (g)(1) of this AD 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 §§43.9(a) and 91.417(a)(2)(v). The record must be maintained as required by §91.417, 121.380, or 135.439.

(h) Alternative Methods of Compliance (AMOCs)

- (1) The Manager, ECO 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 certification office, send it to the attention of the person identified in paragraph (i)(2) of this AD and email 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.

(i) Additional Information

- (1) Refer to European Union Aviation Safety Agency (EASA) AD 2022-0008, dated January 19, 2022, for related information. This EASA AD may be found in the AD docket at *regulations.gov* under Docket No. FAA-2022-1302.
- (2) For more information about this AD, contact Barbara Caufield, Aviation Safety Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: (781) 238-7146; email: .

(j) Material Incorporated by Reference

None.

Issued on January 6, 2023.

Christina Underwood.

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

[Filed 1-13-23; 8:45 am]

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

[Amended]

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

2023-01-11 Safran Helicopter Engines, S.A. (Type Certificate Previously Held by Turbomeca, S.A.): Amendment 39-22305; Docket No. FAA-2023-0020; Project Identifier MCAI-2022-01566-E.

(a) Effective Date

This airworthiness directive (AD) is effective February 6, 2023.

(b) Affected ADs

None.

(c) Applicability

This AD applies to all Safran Helicopter Engines, S.A. (Type Certificate previously held by Turbomeca, S. A.) Makila 1A and Makila 1A1 model turboshaft engines.

(d) Subject

Joint Aircraft System Component (JASC) Code 7200, Engine (Turbine/Turboprop).

(e) Unsafe Condition

This AD was prompted by reports of false engine fire warnings. The FAA is issuing this AD to prevent false engine fire warnings. The unsafe condition, if not addressed, could lead to commanded in-flight engine shutdown, possibly resulting in damage to the helicopter and reduced control of the helicopter.

(f) Compliance

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

(g) Required Actions

Except as specified in paragraphs (h) and (i) of this AD: Perform all required actions within the compliance times specified in, and in accordance with European Union Aviation Safety Agency (EASA) AD 2022-0244, dated December 8, 2022 (EASA AD 2022-0244).

(h) Exceptions to EASA AD 2022-0244

- (1) Where EASA AD 2022-0244 requires compliance from its effective date, this AD requires using the effective date of this AD.
- (2) This AD does not adopt the "Remarks" section of EASA AD 2022-0244.
- (3) Although the service information referenced in EASA AD 2022-0244 specifies to discard any removed fire detectors, this AD requires removing those parts from service.

(i) No Reporting Requirement

Although the service information referenced in EASA AD 2022-0244 specifies to submit certain information to the manufacturer, this AD does not include that requirement.

(j) Alternative Methods of Compliance (AMOCs)

- (1) The Manager, ECO 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) of this AD and email 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) Additional Information

For more information about this AD, contact Kevin Clark, Aviation Safety Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: (781) 238-7088; 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 the AD specifies otherwise.
- (i) European Union Aviation Safety Agency (EASA) AD 2022-0244, dated December 8, 2022.
- (ii) [Reserved]
- (3) For EASA AD 2022-0244, contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; phone: +49 221 8999 000; email: . You may find this material on the EASA website at *ad.easa.europa.eu*.
- (4) 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.
- (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: , or go to: .

Issued on January 13, 2023.

Gaetano A. Sciortino,

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

[Filed 1-18-23; 11:15 am]

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

[Amended]

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

2023-01-12 Safran Helicopter Engines, S.A. (Type Certificate Previously Held by Turbomeca, S.A.): Amendment 39-22306; Docket No. FAA-2023-0021; Project Identifier MCAI-2022-01618-E.

(a) Effective Date

This airworthiness directive (AD) is effective February 6, 2023.

(b) Affected ADs

None.

(c) Applicability

This AD applies to all Safran Helicopter Engines, S.A. (Type Certificate previously held by Turbomeca, S. A.) Arriel 1C, Arriel 1C1, and Arriel 1C2 model turboshaft engines.

(d) Subject

Joint Aircraft System Component (JASC) Code 7200, Engine (Turbine/Turboprop).

(e) Unsafe Condition

This AD was prompted by reports of false engine fire warnings. The FAA is issuing this AD to prevent false engine fire warnings. The unsafe condition, if not addressed, could lead to commanded in-flight engine shutdown, possibly resulting in damage to the helicopter and reduced control of the helicopter.

(f) Compliance

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

(g) Required Actions

Except as specified in paragraphs (h) and (i) of this AD: Perform all required actions within the compliance times specified in, and in accordance with European Union Aviation Safety Agency (EASA) AD 2022-0256, dated December 19, 2022 (EASA AD 2022-0256).

(h) Exceptions to EASA AD 2022-0256

- (1) Where EASA AD 2022-0256 requires compliance from its effective date, this AD requires using the effective date of this AD.
- (2) This AD does not adopt the "Remarks" section of EASA AD 2022-0256.
- (3) Although the service information referenced in EASA AD 2022-0256 specifies to discard any removed fire detectors, this AD requires removing those parts from service.

(i) No Reporting Requirement

Although the service information referenced in EASA AD 2022-0256 specifies to submit certain information to the manufacturer, this AD does not include that requirement.

(j) Alternative Methods of Compliance (AMOCs)

- (1) The Manager, ECO 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) of this AD and email 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) Additional Information

For more information about this AD, contact Kevin Clark, Aviation Safety Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: (781) 238-7088; 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 the AD specifies otherwise.
- (i) European Union Aviation Safety Agency (EASA) AD 2022-0256, dated December 19, 2022.
- (ii) [Reserved]
- (3) For EASA AD 2022-0256, contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; phone: +49 221 8999 000; email: . You may find this material on the EASA website at *ad.easa.europa.eu*.
- (4) 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.
- (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: , or go to: .

Issued on January 13, 2023.

Gaetano A. Sciortino,

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

[Filed 1-18-23; 11:15 am]

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

[Amended]

The FAA amends §39.13 by:

Removing Airworthiness Directive 2022-01-09, Amendment 39-21897 (, January 12, 2022); and

Adding the following new airworthiness directive:

2023-02-03 Stemme AG: Amendment 39-22310; Docket No. FAA-2022-1421; Project Identifier MCAI-2022-01088-G.

(a) Effective Date

This airworthiness directive (AD) is effective March 1, 2023.

(b) Affected ADs

This AD replaces AD 2022-01-09, Amendment 39-21897 (, January 12, 2022).

(c) Applicability

This AD applies to Stemme AG Model Stemme S 10-VT and Model Stemme S 12 gliders, all serial numbers, certificated in any category, with a freewheel clutch having part number 12AK with a serial number starting with "12-" installed, except those which have been modified by following the instructions of Stemme Service Bulletin Doc. No. P062-980058, Revision 02, dated April 19, 2022, and have been reidentified with "/M" at the end of the serial number.

(d) Subject

Joint Aircraft System Component (JASC) Code 7100, Powerplant System.

(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 identifies the unsafe condition as unintended slipping of the freewheel clutch with overheating (burnishing) of the friction pads inside of the clutch. The FAA is issuing this AD to ensure removal of the affected freewheel clutch from service. The unsafe condition, if not addressed, could result in a loss of thrust and consequent loss of glider control.

(f) Compliance

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

(g) Required Action and Compliance

- (1) Before further flight after the effective date of this AD, remove the freewheel clutch from service.
- (2) As of the effective date of this AD, do not install a freewheel clutch part number 12AK with a serial number starting with "12-" on any glider, unless it has been modified by following the instructions of Stemme Service Bulletin Doc. No. P062-980058, Revision 02, dated April 19, 2022, and has been reidentified with "/M" at the end of the serial number.

(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. AMOCs approved for AD 2022-01-09 are approved as AMOCs for the corresponding provisions of this AD.

(i) Additional Information

- (1) Refer to European Union Aviation Safety Agency (EASA) AD 2021-0278R1, dated August 11, 2022, for related information. This EASA AD may be found in the AD docket at regulations.gov under Docket No. FAA-2022-1421.
- (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: .
- (3) For service information identified in this AD that is not incorporated by reference, contact Stemme AG, Flugplatzstrasse F2, Nr. 6-7, D-15344 Strausberg, Germany; phone: +49 (0) 3341 3612-0; fax: +49 (0) 3341 3612-30; email: ; website: *stemme.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.

(j) Material Incorporated by Reference

None.

Issued on January 19, 2023.

Christina Underwood,

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

[Filed 1-24-23; 8:45 am]

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

[Amended]

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

2023-02-04 Mooney International Corporation: Amendment 39-22311; Docket No. FAA-2023-0024; Project Identifier AD-2022-01492-A.

(a) Effective Date

This airworthiness directive (AD) is effective February 13, 2023.

(b) Affected ADs

None.

(c) Applicability

Mooney International Corporation Model M20C, M20D, M20E, M20F, and M20G airplanes, all serial numbers up to 680170 inclusive, certificated in any category.

(d) Subject

Joint Aircraft System Component (JASC) Code: 5520, Elevator Structure.

(e) Unsafe Condition

This AD was prompted by reports of the hybrid elevator balance weight cracking. The FAA is issuing this AD to detect and address the corrosion and cracking of the hybrid elevator balance weight. The unsafe condition, if not addressed, could result in partial or total separation of the elevator balance weight during flight, which could lead to elevator flutter with consequent loss of control of the airplane.

(f) Compliance

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

(g) Required Action

(1) Before further flight after the effective date of this AD, inspect both elevators to determine if any hybrid elevator balance weight part number (P/N) 430018-1 is installed in accordance with STEP 1.1 of the Instructions section in Mooney International Corporation Service Bulletin M20-345A, dated December 13, 2022. The repetitive inspection and replacement required by paragraphs (g)(2) and (3) of this AD are not required if any hybrid elevator balance weight P/N 430018-1 is not installed.

- (2) If any hybrid elevator balance weight P/N 430018-1 is installed, before further flight after the effective date of this AD and thereafter at intervals not to exceed 100 hours time-in-service or 12 months, whichever occurs first, inspect each hybrid elevator balance weight P/N 430018-1 for any corrosion and cracks in accordance with STEP 2 of the Instructions section in Mooney International Corporation Service Bulletin M20-345A, dated December 13, 2022.
- (3) If any corrosion or cracks are found as a result of any inspection required in paragraph (g)(2) of this AD, before further flight, replace the elevator balance weight with a non-hybrid (lead) elevator balance weight P /N 430016-7 in accordance with STEPS 3.1.1 through 3.1.8 of the Instructions section in Mooney International Corporation Service Bulletin M20-345A, dated December 13, 2022, except contacting Mooney Service Parts in STEP 3.1.7 is not required by this AD. The repetitive inspections required by paragraph (g) (2) of this AD are no longer required for that elevator balance weight after this replacement.
- (4) As of the effective date of this AD, do not install hybrid elevator balance weight P/N 430018-1 on any airplane.

(h) Alternative Methods of Compliance (AMOCs)

- (1) The Manager, Fort Worth ACO, 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 (i) 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.

(i) Related Information

For more information about this AD, contact Bang Nguyen, Aviation Safety Engineer, Compliance & Airworthiness Division, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; phone: (817) 222-4973; 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.
- (i) Mooney International Corporation Service Bulletin M20-345A, dated December 13, 2022.
- (ii) [Reserved]
- (3) For service information identified in this AD, contact Mooney International Corporation, 165 Al Mooney Road North, Kerrville, TX 78028; phone: (800) 456-3033; email: ; website: *mooney.com*.
- (4) 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.

(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: , or go to: .

Issued on January 19, 2023.

Gaetano A. Sciortino,

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

[Filed 1-24-23; 4:15 pm]