

**FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES**

**SMALL AIRPLANES, ROTORCRAFT, GLIDERS,
BALLOONS, & AIRSHIPS**

BIWEEKLY 2018-14

6/25/2018 - 7/8/2018



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, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

AD No.	Information	Manufacturer	Applicability
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Information Key: E - Emergency; COR - Correction; S – Supersedes; R - Replaces

Biweekly 2018-01

No ADs were published in this biweekly period.

Biweekly 2018-02

2018-01-12	S 2015-22-53	Airbus Helicopters	AS350B3 helicopters
2018-02-01	S 2015-08-51	Enstrom	F-28A, 280, F-28C, F-28C-2, F-28C-2R, 280C, F-28F, F-28F-R, 280F, and 280FX helicopters
2018-02-04		Aerospace Welding Minneapolis, Inc.	Mufflers
2018-02-07		Various Restricted Category Helicopters	UH-1H, UH-1B, TH-1F, UH-1F, and UH-1P helicopters
2018-02-08		Bell Helicopter Textron	204B, 205A, and 205A-1 helicopters

Biweekly 2018-03

2018-02-02		Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350D, AS355E, AS355F, AS355F1, AS355F2, AS355N, AS355NP, EC130B4, and EC130T2 helicopters
2018-02-05		Piper Aircraft, Inc.	PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-161, PA-28-180, PA-28-181, PA-28-236, PA-28-201T, PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T airplanes
2018-02-13	S 2017-07-02	Sikorsky Aircraft Corporation	269D and Model 269D Configuration A helicopters
2018-02-14		Honeywell International Inc.	TPE331-1, -2, -2UA, -3U, -3UW, -5, -5A, -5AB, -5B, -6, -6A, -8, -10, -10AV, -10GP, -10GT, -10N, -10P, -10R, -10T, -10U, -10UA, -10UF, -10UG, -10UGR, -10UR, and -11U, -12JR, -12UA, -12UAR, -12UHR, -25AA, -25AB, -25DA, -25DB, -25FA, -43A, -43BL, -47A, -55B, and -61A model turboprop engines, and TSE331-3U model turboshaft engines
2018-02-15	S 2007-08-06	British Aerospace Regional Aircraft	HP.137 Jetstream Mk.1, Jetstream Series 200 and 3101, and Jetstream Model 3201 airplanes
2018-03-01		Agusta S.p.A.	AB139 and AW139 helicopters

Biweekly 2018-04

2018-03-03		Textron Aviation Inc.	401, 401A, 401B, 402, 402A, 402B, 402C, 411, 411A, 414, 414A, 421, 421A, 421B, 421C, 425 airplanes
2018-03-05		Various Aircraft	See AD
2018-03-13		General Electric Company	CT7-5A2, CT7-5A3, CT7-7A, CT7-7A1, CT7-9B, CT7-9B1, CT7-9B2, CT7-9C and CT7-9C3 model turboprop engines
2018-03-14		Pacific Aerospace Limited	750XL airplanes
2018-03-15		Pacific Aerospace Limited	750XL airplanes
2018-03-16	R 2017-10-11	Stemme AG	S10-VT gliders
2018-03-17		Aeroclubul Romaniei	IS-28B2 gliders

Biweekly 2018-05

2018-01-12 R1	R 2018-01-12	Airbus Helicopters	AS350B3 helicopters
2018-04-11		Agusta S.p.A.	AB139 and Model AW139 helicopters
2018-05-01		Airbus Helicopters	AS332C, AS332C1, AS332L, AS332L1, and AS332L2; EC225LP helicopters
2018-05-02		AgustaWestland S.p.A.	AW189 helicopters

Biweekly 2018-06

2018-03-18		Agusta S.p.A.	AW189 helicopters
2018-04-09		Pacific Aerospace Limited	750XL airplanes
2018-04-10		Pilatus Aircraft Limited	PC-7 airplanes
2018-05-03		Safran Helicopter Engine	Arrius 2F turboshaft engines
2018-05-08	R 2013-19-12	GA 8 Airvan (Pty) Ltd	GA8, GA8-TC320, GA8-TC 320-03-025 airplanes
2018-05-09		Airbus Helicopters	AS332C, AS332C1, AS332L, and AS332L1 helicopters
2018-05-10		Agusta S.p.A.	AB412 and AB412 EP helicopters

Biweekly 2018-07

2018-06-09		Pacific Aerospace Limited	750XL airplanes
2018-06-10		Honda Aircraft Company LLC	HA-420 airplanes

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2018-06-11		Textron Aviation Inc.	A36TC and B36TC; S35, V35, V35A, and V35B airplanes
2018-06-51		Agusta S.p.A.	A109A, A109A II, A109C, A109E, A109K2, A109S, A119, AW109SP, and AW119 MKII helicopters
2018-07-01		Airbus Helicopters Deutschland GmbH	EC135 P1, P2, P2+, P3, T1, T2, T2+, and T3 helicopters
2018-07-02		Agusta S.p.A.	A109E, A109S, AW109SP, A119, and AW119 MKII helicopters
Biweekly 2018-08			
2018-07-03	R 2018-02-05	Piper Aircraft, Inc	PA-28 airplanes
2018-07-08		Agusta S.p.A.	A109E, A109K2, A109S, AW109SP, A119, and AW119 MKII helicopters
2018-07-13		Textron Aviation Inc.	510, 680, 680A airplanes
2018-07-14		Pacific Aerospace Limited	750XL
2018-07-15		XtremeAir GmbH	XA42 airplanes
2018-07-16		Austro Engine GmbH	E4 and E4P diesel piston engines
2018-07-17		Safran Helicopter Engines	Arrius 2B1, 2B1A, 2B2, and 2K1 turboshaft engines
Biweekly 2018-09			
2018-07-22	R 2017-08-09	DG Flugzeugbau GmbH	DG-500MB and DG-1000M gliders
2018-08-01		Airbus Helicopters	EC225LP helicopters
Biweekly 2018-10			
2018-03-03 R1	R 2018-03-03	Textron Aviation Inc.	400-series airplanes
2018-04-02		Viking Air Limited	DHC-6-1, DHC-6-100, DHC-6-200, DHC-6-300, and DHC-6-400 airplanes (Note: Should have been included in Biweekly 2018-05)
2018-10-01		Safran Helicopter Engines, S.A.	Arriel 2E turboshaft engines
Biweekly 2018-11			
2018-06-51		Agusta S.p.A.	A109A, A109A II, A109C, A109E, A109K2, A109S, A119, AW109SP, and AW119 MKII helicopters
2018-10-03		Pacific Aerospace Limited	750XL airplanes
2018-10-04	R 2018-03-15	Pacific Aerospace Limited	750XL airplanes
2018-10-06		Bell Helicopter Textron Canada Limited	407 helicopters
2018-10-07		Sikorsky Aircraft Corporation	S-76C helicopters
2018-10-09	S 2017-11-03	DG Flugzeugbau GmbH	DG-500MB and DG-1000M gliders
2018-10-10	R 2017-01-12	Diamond Aircraft Industries GmbH	DA 42 airplanes
	R 2017-11-08		
	R 2017-15-09		
2018-11-01		Airbus Helicopters	AS332L2 and Model EC225LP helicopters
2018-11-05	R 2018-06-10	Honda Aircraft Company LLC	HA-420 airplanes
Biweekly 2018-12			
2018-11-03		Airbus Helicopters	SA-365C, SA-365C1, and SA-365C2 helicopters
2018-11-04		Aircraft Industries a.s.	L 410 UVP-E20 and L 410 UVP-E20 CARGO airplanes
Biweekly 2018-13			
2018-13-05		Honeywell International Inc.	TPE331-1, -2, -2UA, -3U, -3UW, -5, -5B, -6, -6A, -8, -10, -10AV, -10N, -10P, -10R, -10T, -10U, -10UA, -10UF, -10UR model turboprop and TSE331-3U turboshaft engines
Biweekly 2018-14			
2018-12-03	R 2013-11-09	Safran Helicopter Engines, S.A.	Arrius 2B1 and 2F turboshaft engines



2018-12-03 Safran Helicopter Engines, S.A. (Type Certificate previously held by Turbomeca S.A.): Amendment 39-19307; Docket No. FAA-2013-0024; Product Identifier 2000-NE-12-AD.

(a) Effective Date

This AD is effective August 9, 2018.

(b) Affected ADs

This AD replaces AD 2013-11-09, Amendment 39-17469 (78 FR 32551, May 31, 2013).

(c) Applicability

This AD applies to all Safran Helicopter Engines, S.A., Arrius 2B1 and 2F turboshaft engines.

(d) Subject

Joint Aircraft System Component (JASC) Code 7320, Fuel Controlling System.

(e) Unsafe Condition

This AD was prompted by several reports of engine flameouts as a result of reduced fuel flow due to the presence of coking. We are issuing this AD to prevent an engine flameout of Arrius 2B1 and 2F turboshaft engines. The unsafe condition, if not addressed, could result in an engine flameout and damage to the helicopter.

(f) Compliance

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

(g) Required Actions

(1) For Arrius 2B1 turboshaft engines, do the following:

(i) Replace each main fuel injector half-manifold and preferred injector with a part eligible for installation before exceeding the operating hours (hours accumulated by the part since installation on an engine) specified in Figure 1 to paragraph (g) of this AD.

(A) For the post-mod TU117 main injector half-manifold, a one-time, non-cumulative tolerance of 100 operating hours may be applied to the compliance interval specified in Figure 1. This one-time tolerance can be applied to the initial replacement or a subsequent replacement, as required.

(B) Reserved.

Figure 1 to Paragraph (g) – Replacement

Part	Operating hours
Main fuel injector half-manifold – post-mod TU117	500
Main fuel injector half-manifold – pre-mod TU117	200
Preferred injector pre/post-mod TU117	200

(ii) Borescope-inspect (BSI) the flame tube and the high-pressure turbine (HPT) area for turbine distress, when replacing the fuel injector manifolds and preferred injector for the first time.

(iii) Thereafter, replace the fuel injector manifolds and preferred injector with a part eligible for installation before exceeding the operating hours (hours accumulated by the part since installation on an engine) specified in Figure 1 to paragraph (g) of this AD.

(2) For Arrius 2F turboshaft engines, do the following:

(i) Replace each pipe injector preferred assembly, part number (P/N) 0 319 73 835 0 and P/N 0 319 73 044 0, with a part eligible for installation before exceeding 400 operating hours (hours accumulated by the part since installation on an engine).

(ii) BSI the flame tube and the HPT area for turbine distress, when replacing the privilege injector for the first time.

(iii) Unless already accomplished as required by paragraph (g)(2)(i) of this AD, within 16 months after the effective date of this AD, replace the pipe injector preferred assembly, P/N 0 319 73 835 0, with a part eligible for installation.

(iv) Thereafter, replace the pipe injector preferred assembly with a part eligible for installation within 400 operating hours since the last pipe injector preferred assembly replacement.

(h) Definitions

(1) For Arrius 2B1 turboshaft engines, a main fuel injector half-manifold or preferred injector is eligible for installation if it has not exceeded the operating hours specified in Figure 1 to paragraph (g) of this AD since first installation on an engine or since last cleaning.

(2) For Arrius 2F turboshaft engines, a pipe injector preferred assembly, P/N 0 319 73 044 0, is eligible for installation if it has not exceeded 400 operating hours since first installation on an engine or since last cleaning.

(i) Installation Prohibition

(1) For Arrius 2B1 turboshaft engines, after the effective date of this AD, do not install a main fuel injector half-manifold or preferred injector onto any engine, or any engine onto a helicopter, unless the main fuel injector half-manifold and preferred injector are eligible for installation.

(2) For Arrius 2F turboshaft engines, after the effective date of this AD, do not install a pipe injector preferred assembly onto any engine, or any engine onto a helicopter, unless the pipe injector preferred assembly is eligible for installation.

(3) For Arrius 2F turboshaft engines, after the effective date of this AD, do not install a pipe injector preferred assembly, P/N 0 319 73 835 0, onto any engine.

(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 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 ECO Branch, send it to the attention of the person

identified in paragraph (k)(1) of this AD. You may email your request to: ANE-AD-AMOC@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.

(k) Related Information

(1) For more information about this AD, contact Barbara Caufield, Aerospace Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: 781-238-7146; fax: 781-238-7199; email: barbara.caufield@faa.gov.

(2) Refer to European Aviation Safety Agency AD 2017-0070, dated April, 25, 2017, for more information. You may examine the EASA AD on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2013-0024.

(l) Material Incorporated by Reference

None.

Issued in Burlington, Massachusetts, on June 27, 2018.

Robert J. Ganley,
Manager, Engine and Propeller Standards Branch,
Aircraft Certification Service.