

**FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES**

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

BIWEEKLY 2016-19

9/5/2016 - 9/18/2016



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 2016-01

2015-26-04	S 2002-13-11	Airbus Helicopters	EC120B helicopters
2015-26-08		Piper Aircraft, Inc.	PA-44-180, PA-44-180T airplanes
2015-26-10		Sikorsky Aircraft Corporation	S-76A, S-76B, and S-76C helicopters

Biweekly 2016-02

2015-12-09 R1	R 2015-12-09	Airbus Helicopters Deutschland GmbH	EC135P1, EC135T1, EC135P2, EC135T2, EC135P2+, EC135T2+, and MBB-BK 117 C-2
2016-01-01		Piper Aircraft, Inc.	PA-46-500TP
2016-01-06		Agusta S.p.A.	AB139 and AW139
2016-01-14		Airbus Helicopters Deutschland GmbH	MBB-BK 117 A-1, A-3, A-4, B-1, B-2, C-1, and C-2
2016-01-15		Agusta S.p.A.	AB139 and AW139
2016-01-19		MD Helicopters Inc.	500N and 600N

Biweekly 2016-03

2015-22-51		Agusta S.p.A.	A109A and A109AII helicopters
2016-02-06		Bell Helicopter Textron Canada Limited	429 helicopters

Biweekly 2016-04

2016-03-02		Turbomeca S.A.	ARRIEL 2C, 2C1, 2C2, 2S1, and 2S2 turboshaft engines
2016-03-05	S 2014-13-01	Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2 and MBB-BK 117 D-2 helicopters
2016-04-05	S 2014-03-18	B-N Group Ltd.	BN-2, BN-2A, BN-2A-2, BN-2A-3, BN-2A-6, BN-2A-8, BN-2A-9, BN-2A-20, BN-2A-21, BN-2A-26, BN-2A-27, BN-2B-20, BN-2B-21, BN-2B-26, BN-2B-27, BN2A MK. III, BN2A MK. III-2, and BN2A MK. III-3 airplanes

Biweekly 2016-05

2016-04-04		M7 Aerospace LLC	SA26-AT, SA226-T(B), SA226-AT, SA226-T, SA226-TC, SA227-AC (C-26A), SA227-AT, SA227-BC (C-26A), SA227-CC, SA227-DC (C-26B), and SA227-TT
2016-04-14		Turbomeca S.A.	Arriel IE2
2016-04-15		MD Helicopters Inc.	369A, 369D, 369E, 369FF, 369HE, 369HM, 369HS, 500N, and 600N
2016-05-06	S 2014-07-52	Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350C, AS350D, AS350D1, AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP

Biweekly 2016-06

2016-04-12		Turbomeca S.A.	Arriel 2B, 2B1, 2C, 2C1, 2C2, 2D, 2E, 2S1, and 2S2 turboshaft engines
2016-05-01	R 96-12-12	Piper Aircraft, Inc.	PA-31, PA-31-300, PA-31-325 and PA-31-350
2016-05-08	R 2006-23-17	Turbomeca S.A.	Turmo IV A and IV C turboshaft engines.
2016-05-09		MD Helicopters, Inc.	369A (Army OH-6A), 369H, 369HE, 369HM, 369HS, and 369D; 369E, 369F and 369FF, 500N
2016-05-10		Airbus Helicopters	AS 365 N3, EC 155B, and EC155B1
2016-05-11		Sikorsky Aircraft Corporation	S-92A
2016-05-13		Pratt & Whitney Canada Corp.	PT6A-60AG, BS919 and BS1048; PT6A-65AG, BS708, BS903, BS1101, and BS1102; PT6A-67AF; and PT6A-67AG
2016-06-01	S 2007-06-06	B-N Group Ltd.	BN-2, BN-2A, BN-2A-2, BN-2A-3, BN-2A-6, BN-2A-8, BN-2A-9, BN-2A-20, BN-2A-21, BN-2A-26, BN-2A-27, BN-2B-20, BN-2B-21, BN-2B-26, BN-2B-27, BN2A MK. III, BN2A MK. III-2, BN2A MK. III-3 BN2A, BN2B, and BN2A MKIII, BN2A, BN2B, and BN2A MKIII

Biweekly 2016-07

2016-06-09		Turbomeca S.A.	Makila 2A and 2A1
2016-07-01	S 2014-07-04R1	Sikorsky Aircraft Corporation	S-92A
2016-07-02		Honeywell International Inc.	TFE731-4, -4R, -5AR, -5BR, and -5R
2016-07-11		Weatherly Aircraft Company	201, 201A, 201B, 201C, 620, 620A, 620B, 620B-TG, and 620TP

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 2016-08

2016-07-13		GE Aviation Czech s.r.o	M601E-11
2016-07-19		Technify Motors GmbH	TAE 125-02-99 and TAE 125-02-114
2016-07-21	R 2015-20-13	Piper Aircraft, Inc.	PA-28-161, PA-28-181, and PA-28R-201
2016-07-24		Textron Aviation, Inc.	310 through 310R, E310H, E310J, T310P through T310R, 310J-1, 320 through 320F, 320-1, 335, 340, 340A, 401 through 401B, 402 through 402C, 411, 411A, 414, 414A, and 421 through 421C
2016-07-26	R 2010-23-02	Airbus Helicopters	SA-365N, SA-365N1, AS-365N2, and AS 365 N3
2016-07-27		Airbus Helicopters	SA341G and SA342J
2016-07-29		Airbus Helicopters	EC225LP, AS332C, AS332L, AS332L1, and AS332L2
2016-08-08	S 92-06-10	SOCATA	MS 880B, MS 885, MS 892A-150, MS 892E-150, MS 893A, MS 893E, MS 894A, MS 894E, Rallye 100S, Rallye 150ST, Rallye 150T, Rallye 235E, and Rallye 235C

Biweekly 2016-09

2016-08-16		Turbomeca S.A.	Arriel 2E turboshaft engines
2016-08-17	2010-19-51	Bell Helicopter Textron Canada	222, 222B, 222U, 230, and 430 helicopters
2016-08-21		Kaman Aerospace Corporation	K-1200 helicopters

Biweekly 2016-10

2015-09-04 R1	R 2015-09-04	DG Flugzeugbau GmbH	DG-1000T gliders
2016-06-06		Quest Aircraft Design, LLC	KODIAK 100 airplanes
2016-08-18		Piper Aircraft, Inc	PA-31-350 airplanes
2016-08-19		Mitsubishi Heavy Industries, Ltd	MU-2B-30, MU-2B-35, and MU-2B-36 , MU-2B-36A and MU-2B-60 airplanes,
2016-08-20	S 2014-12-51	Airbus Helicopters (Previously Eurocopter France)	EC130B4 and EC130T2
2016-09-02		Turbomeca S.A.	Astazou XIV B and XIV H turboshaft engines
2016-09-09	S 2013-08-17	Airbus Helicopters (Previously Eurocopter France)	SA-365N, SA-365N1, AS-365N2, AS 365 N3, and SA-366G1 helicopters
2016-10-01		M7 Aerospace LLC	SA226-AT, SA226-T, SA226-T (B), SA226-TC, SA227-AC (C-26A), SA227-AT, SA227-BC (C-26A), SA227-CC, SA227-DC (C-26B), and SA227-TT airplanes
2016-10-03		Viking Air Limited	DHC-3 airplanes

Biweekly 2016-11

2016-10-03	COR.	Viking Air Limited	DHC-3 airplanes
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Biweekly 2016-12

2016-11-09		Turbomeca S.A.	Arriel 1D and 1D1
2016-11-10	S 2000-20-11	BLANIK LIMITED	L-13 Blanik and L-13 AC Blanik
2016-11-11		EVEKTOR, spol. s.r.o.	L 13 SEH VIVAT and L 13 SDM VIVAT
2016-11-12	S 2000-20-12	EVEKTOR, spol. s.r.o.	L 13 SEH VIVAT and L 13 SDM VIVAT
2016-11-13	S 99-19-33	BLANIK LIMITED	L-13 Blanik and L-13 AC Blanik
2016-11-20		B/E Aerospace	Protective Breathing Equipment (PBE)
2016-11-21		Airbus Helicopters Deutschland GmbH	EC135P1, EC135P2, EC135P2+, EC135T1, EC135T2, and EC135T2+
2016-12-01		Pilatus Aircraft LTD.	PC-12, PC-12/45, PC-12/47, and PC-12/47E
2016-12-02		Various Aircraft	See AD
2016-12-51	E	Airbus Helicopters	AS332L2 and Model EC225LP

Biweekly 2016-13

2016-12-06		Turbomeca S.A.	MAKILA 2A and MAKILA 2A1 turboshaft engines
2016-12-07	S 2010-11-10	Turbomeca S.A.	Astazou XIV B and XIV H turboshaft engines
2016-12-08		GROB Aircraft AG	G115EG airplanes
2016-12-13	S 2000-05-17	Airbus Helicopters	EC120B helicopters
	S 2001-04-12		
2016-13-04		BRP-Powertrain GmbH & Co KG	Rotax model 912 F2, 912 F3, 912 F4, 912 S2, 912 S3, 912 S4, 914 F2, 914 F3, and 914 F4 reciprocating engines

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AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes; R - Replaces			
Biweekly 2016-14			
2016-12-51		Airbus Helicopters	AS332L2 and EC225LP
2016-13-07		Airbus Helicopters	AS 365 N3
2016-14-05	R 2008-15-06	Textron Aviation Inc	175, 175A
2016-14-06	R 2006-13-05	Pacific Aerospace Limited	750XL
Biweekly 2016-15			
2016-15-02		M7 Aerospace LLC	SA26-AT, SA26-T, SA226-AT, SA226-T, SA226-T(B), SA226-TC, SA227-AC (C-26A), SA227-AT, SA227-BC (C-26A), SA227-CC, SA227-DC (C-26B), and SA227-TT
Biweekly 2016-16			
2016-16-03		Pacific Aerospace Limited	FU24-954 and FU24A-954
Biweekly 2016-17			
2016-16-12		Continental Motors, Inc.	-520 and -550 reciprocating
Biweekly 2016-18			
2016-17-04		All Hot Air Balloons	with BALÓNY KUBÍČEK spol. s r.o. Model Kubiček burners.
2016-17-05	S 2009-13-04	RUAG Aerospace Services GmbH	228-100, 228-101, 228-200, 228-201, 228-202, and 228-212
2016-17-07		PILATUS Aircraft Ltd	PC-7
2016-17-08	R 2016-07-24	Textron Aviation, Inc.	310 through 310R, E310H, E310J, T310P through T310R, 310J-1, 320 through 320F, 320-1, 335, 340, 340A, 401 through 401B, 402 through 402C, 411, 411A, 414, 414A, and 421 through 421C
2016-18-05		PILATUS AIRCRAFT LTD	PC-12, PC-12/45, PC-12/47, and PC-12/47E
Biweekly 2016-19			
2016-17-04 R1	R 2016-17-04	ALL HOT AIR BALLOONS	With a BALÓNY KUBÍČEK spol. s r.o. Model Kubiček burner; and fuel hose(s) made of "EGEFLEX" material.
2016-18-18		Agusta S.p.A.	A109A, A109A II, A109C, A109E, A109K2, A109S, and AW109SP



2016-17-04 R1 ALL HOT AIR BALLOONS: Amendment 39-18641; Docket No. FAA-2016-8989; Directorate Identifier 2016-CE-025-AD.

(a) Effective Date

This airworthiness directive (AD) becomes effective on September 6, 2016.

(b) Affected ADs

This AD replaces AD 2016-17-04, Amendment 39-18617 (81 FR 57449, August 23, 2016) ("AD 2016-17-04").

(c) Applicability

This AD applies to all hot air balloons, certificated in any category, that are equipped with all of the following:

- (1) a BALÓNY KUBÍČEK spol. s r.o. Model Kubíček burner; and
- (2) fuel hose(s) made of "EGEFLEX" material.

(d) Subject

Air Transport Association of America (ATA) Code 28: Fuel.

(e) Reason

This AD was prompted by mandatory continuing airworthiness information (MCAI) issued by the aviation authority of another country to identify and correct an unsafe condition on an aviation product. The MCAI describes the unsafe condition as propane leaks on burners equipped with fuel hoses made of "EGEFLEX" material. We are issuing this AD to prevent propane leaks in the fuel hoses, which could result in a fire, damaging the balloon and its envelope, ultimately leading to an emergency landing, with consequent injury to the occupants and persons on the ground. This AD action revises AD 2016-17-04 to eliminate the unnecessary need to document the AD by logbook entry when the hot air balloon does not have fuel hoses made of "EGEFLEX" material. This is done by eliminating the inspection required and narrowing the applicability to only include those balloons that have both the Kubíček burner and fuel hoses made of "EGEFLEX" material.

(f) Actions and Compliance

Unless already done, no later than September 12, 2016 (this date is 14 days after August 29, 2016, which was the effective date of AD 2016-17-04), replace any fuel hose made of "EGEFLEX" material following BALÓNY KUBÍČEK spol. s r.o. Service Bulletin No. BB/50, BB-S/11, AB24 rev.1, dated May 12, 2016.

(g) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, Standards Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Karl Schletzbaum, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4123; fax: (816) 329-4090; email: karl.schletzbaum@faa.gov. Before using any approved AMOC on any balloon to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

(2) Airworthy Product: For any requirement in this AD to obtain corrective actions from a manufacturer or other source, use these actions if they are FAA-approved. Corrective actions are considered FAA-approved if they are approved by the State of Design Authority (or their delegated agent). You are required to assure the product is airworthy before it is returned to service.

(3) Reporting Requirements: For any reporting requirement in this AD, 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 5 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.

(h) Special Flight Permit

Special flight permits are prohibited.

(i) Related Information

Refer to MCAI European Aviation Safety Agency (EASA) AD No. 2016-0151, dated July 26, 2016, for related information. You may examine the MCAI on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2016-8989.

(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 this AD specifies otherwise.

(3) The following service information was approved for IBR on August 29, 2016 (81 FR 57449, August 23, 2016).

(i) BALÓNY KUBÍČEK spol. s r.o. Service Bulletin No. BB/50, BB-S/11, AB24 rev.1, dated May 12, 2016.

(ii) Reserved.

(4) For BALÓNY KUBÍČEK spol. s r.o. service information identified in this AD, contact BALÓNY KUBÍČEK spol. s r. o., Jarní 2a, 614 00 Brno, Czech Republic, telephone: +420 545 422 620; fax: +420 545 422 621; email: info@kubicekballons.cz. Internet: <http://www.kubicekballons.eu>.

(5) You may view this service information at the FAA, Small Airplane Directorate, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call

(816) 329-4148. It is also available on the Internet at <http://www.regulations.gov> by searching for locating Docket No. FAA-2016-8989.

(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, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Kansas City, Missouri, on August 30, 2016.

Pat Mullen,
Acting Manager, Small Airplane Directorate,
Aircraft Certification Service.



2016-18-18 Agusta S.p.A.: Amendment 39-18649; Docket No. FAA-2015-3781; Directorate Identifier 2015-SW-048-AD.

(a) Applicability

This AD applies to Agusta S.p.A. Model A109A, A109A II, A109C, A109E, A109K2, A109S, and AW109SP helicopters with a tail rotor drive shaft assembly (drive shaft) part number 109-8412-02-1 or 109-8412-02-3 installed, certificated in any category.

(b) Unsafe Condition

This AD defines the unsafe condition as a crack in a drive shaft. This condition could result in failure of a drive shaft, failure of the tail rotor, and subsequent loss of helicopter control.

(c) Effective Date

This AD becomes October 20, 2016.

(d) Compliance

You are responsible for performing each action required by this AD within the specified compliance time unless it has already been accomplished prior to that time.

(e) Required Actions

Within 50 hours time-in-service:

(1) Visually inspect each drive shaft in accordance with the Compliance Instructions, paragraph 4, of AgustaWestland Bollettino Tecnico (BT) No. 109-147, dated March 25, 2015; BT No. 109EP-143, dated March 25, 2015; BT No. 109K-68, dated March 25, 2015; BT No. 109S-067, dated March 25, 2015; or BT No. 109SP-094, dated March 25, 2015, as applicable for your model helicopter.

(2) If there is a crack, replace the drive shaft before further flight.

(f) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Safety Management Group, FAA, may approve AMOCs for this AD. Send your proposal to: Martin R. Crane, Aviation Safety Engineer, Safety Management Group, Rotorcraft Directorate, FAA, 10101 Hillwood Pkwy, Fort Worth, TX 76177; telephone (817) 222-5110; email 9-ASW-FTW-AMOC-Requests@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.

(g) Additional Information

The subject of this AD is addressed in European Aviation Safety Agency (EASA) AD No. 2015-0054, dated March 27, 2015. You may view the EASA AD on the Internet at <http://www.regulations.gov> by searching for and locating it in Docket No. FAA-2015-3781.

(h) Subject

Joint Aircraft Service Component (JASC) Code: 6510, Tail Rotor Drive Shaft.

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

(i) AgustaWestland Bollettino Tecnico No. 109-147, dated March 25, 2015.

(ii) AgustaWestland Bollettino Tecnico No. 109EP-143, dated March 25, 2015.

(iii) AgustaWestland Bollettino Tecnico No. 109K-68, dated March 25, 2015.

(iv) AgustaWestland Bollettino Tecnico No. 109S-067, dated March 25, 2015.

(v) AgustaWestland Bollettino Tecnico No. 109SP-094, dated March 25, 2015.

(3) For Agusta S.p.A. service information identified in this final rule, contact AgustaWestland, Product Support Engineering, Via del Gregge, 100, 21015 Lonate Pozzolo (VA) Italy, ATTN: Maurizio D'Angelo; telephone 39-0331-664757; fax 39-0331-664680; or at <http://www.agustawestland.com/technical-bulletins>.

(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 September 1, 2016.

Lance T. Gant,
Manager, Rotorcraft Directorate,
Aircraft Certification Service.