

**FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES**

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

BIWEEKLY 2016-17

8/8/2016 - 8/21/2016



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

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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 S 2001-04-12	Airbus Helicopters	EC120B helicopters
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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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
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Biweekly 2016-16

2016-16-03		Pacific Aerospace Limited	FU24-954 and FU24A-954
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Biweekly 2016-17

2016-16-12		Continental Motors, Inc.	-520 and -550 reciprocating
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2016-16-12 Continental Motors, Inc. (formerly Teledyne Continental Motors, Inc., formerly Continental): Amendment 39-18610; Docket No. FAA-2012-0002; Directorate Identifier 2011-NE-42-AD.

(a) Effective Date

This AD is effective September 15, 2016.

(b) Affected ADs

None.

(c) Applicability

This AD applies to all Continental Motors, Inc. (CMI) model -520 and -550 reciprocating engines, and to all other CMI engine models approved for the use of model -520 and -550 cylinder assemblies such as the CMI model -470 when modified by supplemental type certificate (STC), with Continental Motors Inc., San Antonio (formerly Airmotive Engineering Corp.), replacement parts manufacturer approval (PMA) cylinder assemblies, marketed by Engine Components International Division (hereinafter referred to as ECi), part number (P/N) AEC 631397, with ECi Class 71 or Class 76, serial number (S/N) 1 through S/N 61176, installed.

(d) Unsafe Condition

This AD was prompted by multiple failure reports of cylinder head-to-barrel separations and cracked and leaking aluminum cylinder heads. We are issuing this AD to prevent failure of the cylinder assemblies, which could lead to failure of the engine, in-flight shutdown, and loss of control of the airplane.

(e) Compliance

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

(1) Review the engine maintenance records to determine if any affected cylinder assemblies are installed.

(2) If you cannot determine based on review of engine maintenance records if any affected cylinder assemblies are installed, comply with paragraph (e)(4) of this AD.

(3) If you do not have any of the affected ECi cylinder assemblies installed on your engine, no further action is required.

(4) Cylinder Identification and Serial Number Location

(i) Check the cylinder assembly P/N and Class number. The ECi cylinder assembly, P/N AEC 631397, Class 71 or Class 76, is stamped on the bottom flange of the cylinder barrel. Guidance on the P/N and Class number description and location can be found in ECi Service Instruction No. 99-8-1, Revision 9, dated February 23, 2009.

(ii) If you cannot see the cylinder assembly P/N when the cylinder assembly is installed on the engine, you may use the following alternative method of identification:

(A) Remove the cylinder assembly rocker box cover.

(B) Find the letters ECI, cast into the cylinder head between the valve stems.

(C) Check the cylinder head casting P/N. Affected cylinder assemblies have the cylinder head casting, P/N AEC 65385, cast into the cylinder head between the valve stems.

(D) Find the cylinder assembly S/N as specified in paragraphs (e)(4)(iii) or (e)(4)(iv) of this AD, as applicable.

(iii) For ECI cylinder assemblies, P/N AEC 631397, manufactured through 2008, find the cylinder assembly S/N stamped on the intake port boss two inches down from the top edge of the head.

(iv) For ECI cylinder assemblies, P/N AEC 631397, manufactured on or after January 1, 2009, find the cylinder assembly S/N stamped just below the top edge of the head on the exhaust port side.

(5) Removal From Service

(i) For any affected cylinder assembly with 680 or fewer operating hours time-in-service (TIS) since new on the effective date of this AD, remove the cylinder assembly from service before reaching 1,000 operating hours TIS since new.

(ii) For any affected cylinder assembly with more than 680 operating hours TIS since new and 1,000 or fewer operating hours TIS since new on the effective date of this AD, remove the cylinder assembly from service within the next 320 operating hours TIS or within 1,160 operating hours TIS since new, whichever occurs first.

(iii) For any affected cylinder assembly with more than 1,000 operating hours TIS since new on the effective date of this AD, remove the cylinder assembly from service within the next 160 operating hours or at next engine overhaul, whichever occurs first.

(iv) For any affected cylinder assembly that has been overhauled, remove the cylinder assembly from service within the next 80 operating hours TIS after the effective date of this AD.

(f) Installation Prohibitions

After the effective date of this AD:

(1) Do not repair, or reinstall onto any engine, any cylinder assembly removed per this AD.

(2) Do not install any affected ECI cylinder assembly that has been overhauled, into any engine.

(3) Do not install any engine that has one or more affected overhauled ECI cylinder assemblies, onto any aircraft.

(4) Do not return to service any aircraft that has an engine installed with an ECI cylinder assembly subject to this AD, if the cylinder assembly has 1,000 or more operating hours TIS.

(g) Alternative Methods of Compliance (AMOCs)

The Manager, Delegation Systems Certification Office or Fort Worth Aircraft Certification Office, may approve AMOCs for this AD. Use the procedures found in 14 CFR 39.19 to make your request.

(h) Related Information

(1) For more information about this AD, contact Jurgen E. Priester, Aerospace Engineer, Delegation Systems Certification Office, FAA, Rotorcraft Directorate, 10101 Hillwood Parkway, Fort Worth, TX 76177; phone: 817-222-5190; fax: 817-222-5785; email: jurgen.e.priester@faa.gov.

(2) For ECI Service Instruction No. 99-8-1, Revision 9, dated February 23, 2009, which is not incorporated by reference in this AD, contact Continental Motors—San Antonio, 9503 Middlex Drive, San Antonio, TX 78217; phone: 210-820-8101; Internet: <http://www.continentalsanantonio.com>.

(3) You may view this service information at the FAA, Engine & Propeller Directorate, 1200 District Avenue, Burlington, MA. For information on the availability of this material at the FAA, call 781-238-7125.

(i) Material Incorporated by Reference

None.

Issued in Burlington Massachusetts, on July 19, 2016.
Colleen M. D'Alessandro,
Manager, Engine & Propeller Directorate,
Aircraft Certification Service.