

**FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES**

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

BIWEEKLY 2014-23

11/3/2014 - 11/16/2014



Federal Aviation Administration
Engineering Procedures Office, AIR-110
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 2014-01

2013-26-09		Turbomeca S.A.	ASTAZOU XIV B and XIV H engines
2013-26-13		Sikorsky Aircraft Corporation	S-70, S-70A, S-70C, S-70C (M), and S-70C (M1) helicopters
99-01-05 R1		See AD	See AD

Biweekly 2014-02

2013-25-13		Sikorsky Aircraft Corporation	S-70, S-70A, and S-70C helicopters
2013-26-11		Eurocopter France Helicopters	EC225LP helicopters
2014-01-01		Turbomeca S.A.	Arrius 2F turboshaft engines

Biweekly 2014-03

2014-01-02		Eurocopter Deutschland GmbH	EC135P2+ and EC135T2+ helicopters
2014-02-02		Bell Helicopter Textron Canada Limited	206L, L-1, L-3, and L-4 helicopters
2014-02-03	S 2011-27-51	Beechcraft Corporation	1900, 1900C, 1900C (Military) and 1900D
2014-02-04		Eurocopter France	EC 155B and EC155B1 helicopters
2014-02-05		Eurocopter France	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350C, AS350D, and AS350D1 helicopters
2014-02-07		Costruzioni Aeronautiche Tecnam srl	P2006T
2014-02-08		Agusta S.p.A.	A109C, A109S, A109K2, A109E, and AW109SP helicopters
2014-02-09		Eurocopter France	EC225LP and AS332L1 helicopters

Biweekly 2014-04

2014-03-02		Airbus Helicopters	AS332C, AS332L, AS332L1, AS332L2, SA330J helicopters
2014-03-10		Various Restricted Category Helicopters	See AD
2014-03-11		Bell Helicopter Textron, Inc.	204B helicopters

Biweekly 2014-05

2014-02-06		Agusta S.p.A.	AB412 helicopters
2014-03-01		Agusta S.p.A.	AB139 and AW139 helicopters
2014-03-03		Cessna Aircraft Company	310, 320, 340, 401, 402, 411, 414, and 421
2014-03-18		B-N Group Ltd.	BN-2
2014-03-20		Piaggio Aero Industries S.P.A	P-180
2014-04-01		Slingsby Aviation Ltd.	T67M260
2014-04-02		Dornier Luftfahrt GmbH	228-212
2014-04-03		Pacific Aerospace Limited	750XL
2014-04-04		Diamond Aircraft Industries GmbH	DA 42 NG and DA 42 M NG
2014-04-06		Turbomeca S.A.	Arrius 2B1, 2B1A, 2B2, and 2K1 turboshaft engines
2014-04-11		Airbus Helicopters	AS350B, BA, B1, B2, B3, D; AS355E, F, F1, F2, and N helicopters
2014-04-12		Airbus Helicopters	EC225LP helicopters
2014-04-14		Agusta S.p.A.	A109S, AW109SP, A119, and AW119 MKII helicopters

Biweekly 2014-06

2011-22-05 R1		Airbus Helicopters	AS350B, B1, B2, B3, BA, C, D, D1; AS355E, F, F1, F2, N, and NP helicopters
2014-04-13		Agusta S.p.A.	AB412 and AB412 EP helicopters
2014-05-01		Eurocopter Deutschland	EC135P1, EC135P2, EC135P2+, EC135T1, EC135T2, and EC135T2+ helicopters
2014-05-04		Eurocopter Deutschland	MBB-BK 117 C-2 helicopters
2014-05-06		Eurocopter Deutschland	EC135 P1, P2, P2+, T1, T2, and T2+ helicopters
2014-05-07		Airbus Helicopters	AS350B, BA, B1, B2, C, D, D1, AS355E, F, F1, F2, and N helicopters
2014-05-08		Airbus Helicopters	AS332L1 helicopters
2014-05-11		Airbus Helicopters	AS332C, AS332L, AS332L1, AS332L2, EC225LP, and SA330J helicopters
2014-05-15		Airbus Helicopters	AS332C, AS332L, AS332 L1, AS332 L2 and SA330J helicopters

SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes; R - Replaces			
2014-05-29 2014-06-01	S 2009-16-03	Continental Motors M7 Aerospace	IO-520, TSIO-520, and IO-550 series reciprocating engines 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), SA227-TT, SA26-AT, and SA26-T
Biweekly 2014-07			
2014-05-10	S 2012-25-04	Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350C, AS350D, AS350D1, AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP helicopters
2014-05-27 2014-06-03		Rockwell Collins British Aerospace Regional Aircraft	Mode S transponders Jetstream Series 3101 and Jetstream Model 3201
2014-06-06 2014-06-07 2014-06-51	S 2013-12-06	SOCATA Alexander Schleicher Airbus Helicopters Deutschland	TBM 700 ASK 21 gliders MBB-BK 117 A-3, MBB-BK 117 A-4, MBB-BK 117 B-1, and MBB-BK 117 C-2 helicopters
2014-07-51 2014-07-52		Agusta Airbus Helicopters	AB139 and AW139 helicopters AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350C, AS350D, AS350D1, AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP helicopters
Biweekly 2014-08			
2014-07-04 2014-07-06	S 2007-19-09R1	Sikorsky Turbomeca S.A.	S-92A helicopters Arriel 2B1 turboshaft engines
Biweekly 2014-09			
2014-07-07 2014-07-08 2014-07-09	S 87-02-04	British Aerospace (Operations) Limited Centrair British Aerospace Regional Aircraft	HP.137 Jetstream Mk.1, Jetstream Series 200, and Jetstream Series 3101 101, 101A, 101P, and 101AP gliders Jetstream Series 3101 and Model 3201
2014-07-10		Ballonbau Wörner GmbH	NL-280/STU, NL-380/STU, NL-510/STU, NL-640/STU, NL-840/STU, and NL-1000/STU balloons
2014-08-06 2014-08-10 2014-09-01 2014-09-02	COR S 2013-14-08	Sikorsky Aircraft Corporation Austro Engine GmbH AgustWestland S.p.A. M7 Aerospace LLC	S-76A, B, and C helicopters E4 engines A109C, A109E, A109K2, and A119 helicopters SA226-AT, SA226-T, SA226-T(B), SA226-TC, SA227-AC (C-26A), SA227-AT, SA227-TT, SA227-BC (C-26A), SA227-CC, SA227-DC (C-26B), SA26-T, and SA26-AT
2014-09-03	S 99-07-11	SOCATA	TBM 700
Biweekly 2014-10			
2014-09-04 2014-09-11 2014-09-12 2014-10-01	S 2009-21-08 R1 S 2008-24-11	Piaggio Aero Industries S.p.A. GROB-WERKE Alpha Aviation Concept Limited Vulcanair S.p.A.	P-180 G115EG and G120A R2160 P 68, P 68B, P 68C, P 68C-TC, P 68 "OBSERVER," P68TC "OBSERVER," and P68 "OBSERVER 2"
Biweekly 2014-11			
2014-10-03		Airbus Helicopters	AS332L1 and EC225LP helicopters
Biweekly 2014-12			
2014-07-52		Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350C, AS350D, AS350D1, AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP helicopters
2014-11-02		Airbus Helicopters	SA-365N, SA-365N1, AS-365N2, and AS 365 N3 helicopters
2014-11-07		Agusta S.p.A Helicopters	A109A, A109A II, A109C, A109E, A109K2, A109S, AW109SP, A119, and AW119 MKII helicopters
2014-11-08 2014-11-09		Airbus Helicopters Costruzioni Aeronautiche Tecnam srl	EC225LP helicopters P2006T airplanes
2014-12-01		Bell Helicopter Textron	214B; 214B-1; 214ST helicopters

SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

AD No.	Information	Manufacturer	Applicability
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2014-12-51	E	Airbus Helicopters	EC130B4 and EC130T2 helicopters
2014-12-52	E	Honeywell International	TFE731-4, -4R, -5AR, -5BR, -5R, -20R, -20AR, -20BR, -40, 40AR, -40R, -40BR, -50R, and -60 turbofan engines
Biweekly 2014-13			
2014-04-07	S 2003-05-03	Bell Helicopter Textron Canada	407 helicopters
2014-10-02	S 2006-11-19	Dornier Luftfahrt GmbH	228-100, 228-101, 228-200, 228-201, 228-202, and 228-212
2014-12-04	S 2003-01-04	Bell Helicopter Textron, Inc.	204B, 204B, 205A, 205A-1, 205A 205A-1, 205B, 210, and 212 helicopters
2014-12-07		Agusta S.p.A.	AB412 and AB412EP helicopters
2014-12-08	S 2004-11-10	Przedsiębiorstwo Doswiadczalno-Produkcyjne Szybownictwa "PZL-Bielsko"	SZD-50-3 "Puchacz" sailplanes
2014-12-09		Agusta S.p.A.	AB412 helicopters
Biweekly 2014-14			
2014-11-05		Pratt & Whitney Canada Corp.	PT6A-20, PT6A-20A, PT6A-20B, PT6A-25, PT6A-28, PT6A-34B, PT6A-36, PT6A-135, PT6A-11, PT6A-11AG, PT6A-15AG, PT6A-21, PT6A-25A, PT6A-25C, PT6A-27, PT6A-34, PT6A-34AG, PT6A-110, PT6A-112, PT6A-114, and PT6A-135A engines
2014-12-05	S 2007-10-07	Turbomeca S.A.	Arriel 2B, 2B1, 2C, 2C1, 2C2, 2S1, and 2S2 turboshaft engines
2014-12-12		Airbus Helicopters	EC120B, and EC130B4 helicopters
2014-12-52	S 2014-12-52	Honeywell International Inc.	TFE731-4, -4R, -5AR, -5BR, -5R, -20R, -20AR, -20BR, -40, -40AR, -40R, -40BR, -50R, and -60 turbofan engines
2014-13-01		Airbus Helicopters	MBB-BK 117 C-2 helicopters
2014-13-04		Columbia Helicopters, Inc.	234 helicopters
2014-13-05	S 2007-10-16	British Aerospace Regional Aircraft	Jetstream Model 3201
2013-22-23 R1		AERMACCHI S.p.A.	F.260, F.260B, F.260C, F.260D, F.260E, F.260F, S.208 and S.208A
Biweekly 2014-15			
2014-06-51	S 2013-12-06	Airbus Helicopters Deutschland GmbH	MBB-BK 117 A-3, MBB-BK 117 A-4, MBB-BK 117 B-1, and MBB-BK 117 C-2 helicopters
2014-13-08	S 2013-24-14	Diamond Aircraft Industries GmbH	DA 40 airplanes
2014-13-09		Airbus Helicopters Deutschland GmbH	EC135P1, P2, P2+, T1, T2, and T2+ helicopters
2014-15-01		M7 Aerospace LLC	SA227-AT, SA227-AC, SA227-BC, SA227-CC, SA227-DC airplanes
2014-15-02		GROB-WERKE GMBH & CO KG and BURKHART GROB LUFT-UND RAUMFAHRT GmbH & CO KG	G102 STANDARD ASTIR III, G102 CLUB ASTIR III, and G102 CLUB ASTIR IIIb; G103 TWIN II, G103A TWIN II ACRO, G103C TWIN III ACRO and Model G 103 C Twin III SL gliders
2014-15-51	E	Embraer S.A.	EMB-500
Biweekly 2014-16			
2014-07-51		AgustaWestland S.p.A.	AB139 and AW139 helicopters
2014-12-11		Sikorsky Aircraft Corporation	S-92A helicopters
2014-12-51		Airbus Helicopters	EC130B4 and EC130T2 helicopters
2014-15-18		Mooney International Corporation	M20C, M20E, M20M, M20R, and M20TN
2014-16-01		MD Helicopters, Inc.	MD900 helicopters
2014-16-03		Fuji Heavy Industries, Ltd.	FA-200-160, FA-200-180, and FA-200-180AO
Biweekly 2014-17			
2014-15-51		Embraer S.A.	EMB-500
2014-16-15		Turbomeca S.A.	Makila 2A and Makila 2A1 turboshaft engines
2014-16-24		Airbus Helicopters Deutschland GmbH	EC135P1, EC135P2, EC135P2+, EC135T1, EC135T2, and EC135T2+ helicopters

SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

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Biweekly 2014-18

2014-16-17	S 2010-17-18 R1	Air Tractor, Inc.	AT-802 and AT-802A
2014-17-01		Viking Air Limited	DHC-3
2014-17-03		Technify Motors GmbH	TAE 125-02-99 and TAE 125-02-114 reciprocating engines
2014-17-08		Pratt & Whitney Canada Corp.	PT6A-114 and PT6A-114A turboprop engines
2014-17-09		Harry E. Williams and Cliff Robertson, and de Havilland	DH 82A and de Havilland Model DH 83

Biweekly 2014-19

2013-22-14 R1		DG Flugzeugbau GmbH	DG-1000T gliders
2014-07-04R1		Sikorsky Aircraft Corporation	S-92A helicopters
2014-18-01		Rockwell Collins, Inc.	Appliance: See AD
2014-18-03		APEX Aircraft	R 3000/160
2014-19-01	S 2013-22-20	Embraer S.A.	EMB-505

Biweekly 2014-20

2014-19-05		Turbomeca S.A.	Arriel 1A1, 1A2, 1B, 1C, 1C1, 1C2, 1D, 1D1, 1E2, 1K1, 1S, 1S1, 2B, 2B1, 2C, 2C1, 2C2, 2S1, and 2S2 turboshaft engines
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Biweekly 2014-21

2014-20-05		Embraer	EMB-110P1 and EMB-110P2 airplanes
2014-20-12	S 75-20-06	Alexandria Aircraft LLC	14-19-3A, 17-30, 17-30A, 17-31, 17-31A, 17-31ATC, and 17-31TC airplanes
2014-20-13		Pacific Aerospace Limited	750XL airplanes
2014-20-14	S 2014-04-03	Pacific Aerospace Limited	750XL airplanes
2014-20-15	S 2012-02-13	Airbus Helicopters, Inc.	EC130B4 helicopters
2014-20-16		Brantly International, Inc.	B-2, Model B-2A, and Model B-2B helicopters

Biweekly 2014-22

2014-15-02 R1	R 2014-15-02	Fiberglas-Technik Rudolf Lindner GmbH & Co. KG	G102 STANDARD ASTIR III, G102 CLUB ASTIR III, G102 CLUB ASTIR IIIb, G103 TWIN II, G103A TWIN II ACRO, G103C TWIN III ACRO, and G 103 C Twin III SL gliders
2014-21-02		Pacific Aerospace Limited	FU24-954 and FU24A-954
2014-21-03		Airbus Helicopters	AS332L2 helicopters
2014-22-51		Airbus Helicopters	EC130T2 helicopters

Biweekly 2014-23

2014-22-01	S 2012-26-16	Pilatus Aircraft Ltd	PC-12, PC-12/45, PC-12/47, and PC-12/47E
2014-22-03	S 2012-14-11	Various Restricted Category Helicopters	OH-58A, OH-58A+, and OH-58C helicopters
2014-23-03	S 76-06-09	Piper Aircraft, Inc.	PA-31P



2014-22-01 PILATUS AIRCRAFT LTD.: Amendment 39-18005; Docket No. FAA-2014-0594; Directorate Identifier 2014-CE-022-AD.

(a) Effective Date

This airworthiness directive (AD) becomes effective December 18, 2014.

(b) Affected ADs

This AD supersedes AD 2012-26-16, Amendment 39-17311 (78 FR 11572, February 19, 2013).

(c) Applicability

This AD applies to PILATUS AIRCRAFT LTD. Models PC-12, PC-12/45, PC-12/47, and PC-12/47E airplanes, all manufacturer serial numbers (MSNs), certificated in any category.

(d) Subject

Air Transport Association of America (ATA) Code 5: Time Limits.

(e) Reason

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 a need to incorporate new revisions into the Limitations section, Chapter 4, of the FAA-approved maintenance program (e.g., maintenance manual). The limitations were revised to include repetitive inspections of the inboard flap drive arms for crack(s). These actions are required to ensure the continued operational safety of the affected airplanes.

(f) Actions and Compliance

Unless already done, do the actions in paragraphs (f)(1) through (f)(5) of this AD:

(1) Before further flight after December 18, 2014 (the effective date of this AD), insert Data module code 12-A-04-00-00-00A-000A-A, "STRUCTURAL, COMPONENT AND MISCELLANEOUS–AIRWORTHINESS LIMITATIONS," dated March 13, 2014, of the Pilatus Model type–PC-12, PC-12/45, PC-12/47, Aircraft Maintenance Manual (AMM), Document No. 02049, 12-A-AM-00-00-00-I, revision 28, dated May 31, 2014, for Models PC-12, PC-12/45, PC-12/47, and Data module code 12-B-04-00-00-00A-000A-A, "STRUCTURAL AND COMPONENT LIMITATIONS–AIRWORTHINESS LIMITATIONS," dated March 13, 2014, of the Pilatus Model type–PC-12/47E MSN-1001-UP, Aircraft Maintenance Manual (AMM), Document No. 02300, 12-B-AM-00-00-00-I, revision 11, dated May 31, 2014, for Model PC-12/47E, into the Limitations section of the FAA-approved maintenance program (e.g., maintenance manual). These limitations section revisions do the following:

(i) Establish an inspection of the inboard flap drive arms,

(ii) Specify replacement of components before or upon reaching the applicable life limit, and
(iii) Specify accomplishment of all applicable maintenance tasks within certain thresholds and intervals.

(2) Only authorized Pilatus Service Centers can do the Supplemental Structural Inspection Document (SSID) as required by the documents in paragraph (f)(1) of this AD because deviations from the type design in critical locations could make the airplane ineligible for this life extension.

(3) If no compliance time is specified in the documents listed in paragraph (f)(1) of this AD when doing any corrective actions where discrepancies are found as required in paragraph (f)(1)(iii) of this AD, do these corrective actions before further flight after doing the applicable maintenance task.

(4) During the accomplishment of the actions required in paragraphs (f)(1)(i), (f)(1)(ii), and (f)(1)(iii) of this AD, if a discrepancy is found that is not identified in the documents listed in paragraph (f)(1) of this AD, before further flight after finding the discrepancy, contact PILATUS AIRCRAFT LTD. at the address specified in paragraph (i) of this AD for a repair scheme and incorporate that repair scheme.

(5) Within the next 3 months after December 18, 2014 (the effective date of this AD) or within the next 150 hours TIS after December 18, 2014 (the effective date of this AD), whichever occurs first, inspect the inboard flap drive arms for cracks and take all necessary corrective actions.

(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 Doug Rudolph, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4059; fax: (816) 329-4090; email: doug.rudolph@faa.gov.

(i) Before using any approved AMOC on any airplane 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.

(ii) AMOCs approved for AD 2012-26-16, Amendment 39-17311 (77 FR 11572, February 19, 2013) are not approved as AMOCs for this AD.

(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.

(h) Special Flight Permit

Special flight permits are prohibited.

(i) Related Information

Refer to MCAI European Aviation Safety Agency (EASA) AD No. 2014-0170, dated July 17, 2014, for related information. The MCAI can be found in the AD docket on the Internet at: <http://www.regulations.gov/#!documentDetail;D=FAA-2014-0594-0003>.

(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 the AD specifies otherwise.

(i) Data module code 12-A-04-00-00-00A-000A-A, "STRUCTURAL, COMPONENT AND MISCELLANEOUS–AIRWORTHINESS LIMITATIONS," dated March 13, 2014, of the Pilatus Model type–PC-12, PC-12/45, PC-12/47, Aircraft Maintenance Manual (AMM), Document No. 02049, 12-A-AM-00-00-00-I, revision 28, dated May 31, 2014.

(ii) Data module code 12-B-04-00-00-00A-000A-A, "STRUCTURAL AND COMPONENT LIMITATIONS–AIRWORTHINESS LIMITATIONS," dated March 13, 2014, of the Pilatus Model type–PC-12/47E MSN-1001-UP, Aircraft Maintenance Manual (AMM), Document No. 02300, 12-B-AM-00-00-00-I, revision 11, dated May 31, 2014.

Note to paragraph (j)(2) of this AD: Data module code 12-A-04-00-00-00A-000A-A, "STRUCTURAL, COMPONENT AND MISCELLANEOUS–AIRWORTHINESS LIMITATIONS," dated March 13, 2014, of the Pilatus Model type–PC-12, PC-12/45, PC-12/47, Aircraft Maintenance Manual (AMM), Document No. 02049, 12-A-AM-00-00-00-I, revision 28, dated May 31, 2014; and Data module code 12-B-04-00-00-00A-000A-A, "STRUCTURAL AND COMPONENT LIMITATIONS–AIRWORTHINESS LIMITATIONS," dated March 13, 2014, of the Pilatus Model type–PC-12/47E MSN-1001-UP, Aircraft Maintenance Manual (AMM), Document No. 02300, 12-B-AM-00-00-00-I, revision 11, dated May 31, 2014, were issued as complete updates to the AMM Airworthiness Limitations sections.

(3) For Pilatus Aircraft LTD. service information identified in this AD, contact PILATUS AIRCRAFT LTD., Customer Service Manager, CH-6371 STANS, Switzerland; telephone: +41 (0) 41 619 33 33; fax: +41 (0) 41 619 73 11; Internet: <http://www.pilatus-aircraft.com> or email: SupportPC12@pilatus-aircraft.com.

(4) You may view this service information at 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.

(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 Kansas City, Missouri, on October 20, 2014.

Derek Morgan,
Acting Manager, Small Airplane Directorate,
Aircraft Certification Service.



2014-22-03 Various Restricted Category Helicopters: Amendment 39-18008; Docket No. FAA-2014-0337; Directorate Identifier 2014-SW-029-AD.

(a) Applicability

This AD applies to Arrow Falcon Exporters, Inc. (AFE), Rotorcraft Development Corporation (RDC) (formerly Garlick Helicopter Corporation, and Garlick Helicopter, Inc.), and San Joaquin Helicopters (SJH) Model OH-58A, OH-58A+, and OH-58C helicopters, certificated in any category.

(b) Unsafe Condition

This AD defines the unsafe condition as a crack in the main rotor mast, which could result in failure of the mast and subsequent loss of control of the helicopter.

(c) Affected AD

This AD supersedes AD 2012-14-11, Amendment 39-17125 (77 FR 42971, July 23, 2012).

(d) Effective Date

This AD becomes effective December 19, 2014.

(e) 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.

(f) Required Actions

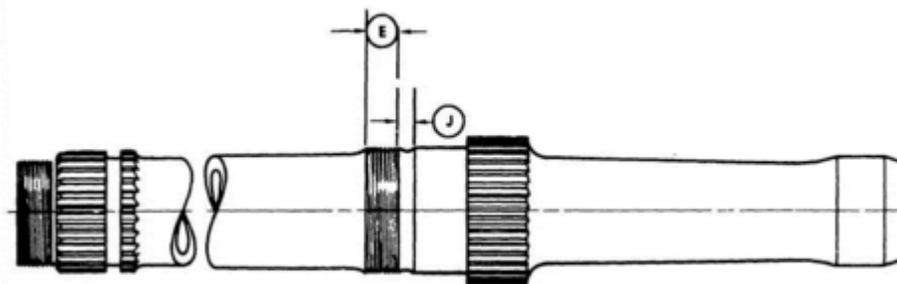
(1) Within 90 days, unless accomplished previously within the last 12 months, and thereafter at intervals not exceeding 1,200 hours time-in-service or 3 years, whichever occurs earlier:

(i) Remove any surface rust with a wire brush or steel wool and, using a 10X or higher power magnifying glass, inspect the areas of the mast as shown in area E and area J of Figure 1 to Paragraph (f) of this AD for pitting, corrosion, or a crack.

(ii) Overhaul the main rotor mast assembly and magnetic particle inspect the mast; mast bearing nut; plate, mast and seal; and bearing liner for a crack.

(iii) Fluorescent penetrant inspect the locking plate for a crack.

Figure 1 to Paragraph (f)



(2) If there is a crack, pitting, or corrosion, before further flight, replace the mast with an airworthy mast.

(g) Alternative Methods of Compliance (AMOCs)

(1) For AFE and SJH helicopters, the Manager, Los Angeles Aircraft Certification Office, FAA, may approve AMOCs for this AD. Send your proposal to: John Cecil, Aviation Safety Engineer, Los Angeles Aircraft Certification Office, Transport Airplane Directorate, FAA, 3960 Paramount Blvd., Lakewood, CA 90712; telephone (562) 627-5228; email john.cecil@faa.gov.

(2) For RDC helicopters, the Manager, Denver Aircraft Certification Office, FAA, may approve AMOCs for this AD. Send your proposal to: Roger Caldwell, Aerospace Engineer, Denver Aircraft Certification Office, FAA, 26805 East 68th Ave., Room 214, Denver, CO 80249; telephone (303) 342-1086; email roger.caldwell@faa.gov.

(3) 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.

(h) Additional Information

(1) Arrow Falcon Exporters, Inc., Alert Service Bulletin: 2012-58-01, Revision 1, dated February 20, 2012, which is not incorporated by reference, contains more information about the subject of this AD. For Arrow Falcon Exporters, Inc. service information identified in this AD, contact Arrow Falcon Exporters, Inc., 2081 South Wildcat Way, Porterville, CA 93257; telephone (559) 781-8604; fax (559) 781-9271; email afe@arrowfalcon.com.

(2) Rotorcraft Development Corporation Alert Service Bulletin No. OH58-13-01, dated January 30, 2013, which is not incorporated by reference, contains more information about the subject of this AD. For Rotorcraft Development Corporation service information, contact Rotorcraft Development Corporation, PO Box 430, 1004 Eastside Highway, Corvallis, MT 59828; telephone (406) 961-4100; fax (406) 961-4101; or at <http://www.rotorcraftdevelopment.com>.

(3) United States Army Technical Manual Aviation Unit and Intermediate Maintenance Manual Army Model OH-58A and OH-58C Helicopters, TM 55-1520-228-23-1, which is not incorporated by reference, contains more information about the subject of this AD. For United States Army service information, contact Commander, U.S. Army Aviation and Missile Command, ATTN: AMSAM-MMA-NP, Redstone Arsenal, AL 35898-5000, telephone (256) 876-4044; or at <https://www.logsa.army.mil/etmpdf/files/030000/035016.pdf>.

(4) You may review the service information at the FAA, Office of the Regional Counsel, Southwest Region, 2601 Meacham Blvd., Room 663, Fort Worth, Texas 76137.

(i) Subject

Joint Aircraft Service Component (JASC) Code: 6300: Main Rotor Drive.

Issued in Fort Worth, Texas, on October 24, 2014.

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



2014-23-03 Piper Aircraft, Inc.: Amendment 39-18019; Docket No. FAA-2014-0437; Directorate Identifier 2012-CE-036-AD.

(a) Effective Date

This AD is effective December 18, 2014.

(b) Affected ADs

This AD supersedes AD 76-06-09, Amendment 39-3325 (43 FR 50417, October 30, 1978).

(c) Applicability

This AD applies to Piper Aircraft, Inc. Model PA-31P airplanes, serial numbers 31P-1 through 31P-80 and 31P-7300110 through 31P-7730012, that are certificated in any category.

(d) Subject

Joint Aircraft System Component (JASC)/Air Transport Association (ATA) of America Code 78, Engine Exhaust.

(e) Unsafe Condition

This AD was prompted by reports of exhaust system failures, new service information issued by the manufacturer, and the tailpipe v-band coupling used for terminating action is obsolete. We are issuing this AD to prevent the possibility of an in-flight powerplant fire due to an exhaust system failure.

(f) Compliance

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

(g) Inspection of Exhaust System

(1) Within the next 60 hours time-in-service (TIS) after December 18, 2014 (the effective date of this AD) or within the next 6 months after December 18, 2014 (the effective date of this AD), whichever occurs first, and repetitively thereafter at intervals not to exceed 60 hours TIS or 6 months, whichever occurs first, inspect the parts as specified in table 1 of paragraph (g)(1) of this AD, if installed.

Table 1 of Paragraph (g)(1) of This AD: Inspection for Piper and Lycoming Exhaust System Parts

Product/part nomenclature	Make	Model/part No.	With a light and mirror or other method capable of achieving an equivalent visual resolution, inspect for the following conditions
Airplane	Piper	PA-31P	
Engine	Lycoming	TIGO-541-E series	
Pipe, exhaust, right-rear	Lycoming	78012	Bulges, cracks, and exhaust leak stains.
Pipe, exhaust, left-rear	Lycoming	78008	Bulges, cracks, and exhaust leak stains.
Pipe, rear exhaust adapter	Lycoming	LW-13027	Bulges, cracks, and exhaust leak stains.
Tail pipe assembly, upper	Piper	46323-05	Bulges, cracks, and exhaust leak stains.
Tail pipe assembly, lower	Piper	48788-05	Bulges, cracks, and exhaust leak stains.
V-band coupling	Lycoming	LW-12093-5	Cracks and exhaust leak stains.
V-band coupling	Piper	555-366 or 557-369	Cracks and exhaust leak stains.
Isolator (CA-3383-1)	Piper	467-442	Cracks, looseness, and distortion.
Bracket—isolator, upper	Piper	47014-02	Cracks, looseness, and distortion.
Bracket—isolator, lower	Piper	47013-02	Cracks, looseness, and distortion.

(2) If any damage is found in any inspection required in paragraph (g)(1) of this AD, before further flight, do the corrective actions, as applicable, in paragraphs (g)(2)(i) through (g)(2)(iv).

(i) Replace Piper v-band couplings exhibiting cracks and/or exhaust leak stains with airworthy parts following Piper Aircraft, Inc. Mandatory Service Bulletin No. 644E, dated May 9, 2012. Replace Lycoming v-band couplings exhibiting cracks and/or exhaust leak stains with airworthy parts following Lycoming Service Instruction No. 1238B, Revision B, dated January 6, 2010.

Note to paragraphs (g)(2)(i) and (h)(2)(iii): During replacement of v-band couplings, we recommend not opening the v-band coupling more than the MINIMUM diameter necessary to clear coupled flanges. It is recommended to replace any locknuts and/or mating couplings with airworthy parts when locknuts do not exhibit a prevailing torque when installed.

(ii) Replace Lycoming exhaust system parts exhibiting bulges, cracks, and/or exhaust leak stains with airworthy parts following Lycoming Service Instruction No. 1320, dated March 7, 1975; or Textron Lycoming Service Instruction No. 1391, dated October 5, 1979, as applicable.

(iii) Replace Piper tail pipe assembly parts exhibiting bulges, cracks, and/or exhaust leak stains with airworthy parts following Piper Aircraft, Inc. Mandatory Service Bulletin No. 644E, dated May 9, 2012.

(iv) Replace Piper isolators and brackets exhibiting cracks, looseness and/or distortion following Piper Aircraft Corporation Service Bulletin No. 462A, dated November 3, 1975; and Piper Aircraft, Inc. Mandatory Service Bulletin No. 492A, dated May 29, 2012.

(h) Exhaust System Modifications

(1) Within the next 100 hours TIS after December 18, 2014 (the effective date of this AD) or within the next 12 months after December 18, 2014 (the effective date of this AD), whichever occurs first, review the airplane maintenance records to positively identify whether the modifications described in paragraphs (h)(1)(i) through (h)(1)(iii) of this AD have been done.

(i) Exhaust pipe slip joint modification following Piper Aircraft, Inc. Mandatory Service Bulletin No. 492A, dated May 29, 2012; and Textron Lycoming Mandatory Service Bulletin No. 393C, dated November 26, 1976.

(ii) Installation of bracket and clamp assembly following Piper Kit No. 760-974 as specified in Piper Aircraft, Inc. Mandatory Service Bulletin No. 492A, dated May 29, 2012; or Piper Aircraft, Inc. Service Bulletin 462A, dated November 3, 1975.

(iii) Replacement of Piper v-band coupling, part number 556-053, with Piper v-band coupling, part number 557-369, following Piper Aircraft, Inc. Mandatory Service Bulletin No. 644E, dated May 9, 2012.

(2) If you cannot positively identify that the modifications described in paragraphs (h)(1)(i) through (h)(1)(iii) of this AD have been done, before further flight, you must do the modifications described in paragraphs (h)(2)(i) through (h)(2)(iii), as applicable.

(i) Exhaust pipe slip joint modification following Piper Aircraft, Inc. Mandatory Service Bulletin No. 492A, dated May 29, 2012, and Textron Lycoming Mandatory Service Bulletin SB 393C, dated November 26, 1976.

(ii) Installation of bracket and clamp assembly following Piper Kit No. 760-974 as specified in Piper Aircraft, Inc. Mandatory Service Bulletin No. 492A, dated May 29, 2012; or Piper Aircraft Corporation Service Bulletin 462A, dated November 3, 1975.

(iii) Replacement of Piper v-band coupling, part number 556-053, with Piper v-band coupling, part number 557-369, following Piper Aircraft, Inc. Mandatory Service Bulletin No. 644E, dated May 9, 2012.

(i) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Atlanta Aircraft Certification Office (ACO), 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 ACO, send it to the attention of the person identified in the Related Information, paragraph (j)(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.

(j) Related Information

For more information about this AD, contact Gary Wechsler, Aerospace Engineer, Atlanta ACO, FAA, 1701 Columbia Avenue, College Park, Georgia 30337; telephone: (404) 474-5575; fax: (404) 474-5606; email: gary.wechsler@faa.gov.

(k) 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 the AD specifies otherwise.

(3) The following service information was approved for IBR on December 18, 2014.

(i) Piper Aircraft Corporation Service Bulletin No. 462A, dated November 3, 1975.

(ii) Piper Aircraft, Inc. Mandatory Service Bulletin No. 492A, dated May 29, 2012.

(iii) Textron Lycoming Mandatory Service Bulletin SB 393C, dated November 26, 1976.

(4) The following service information was approved for IBR on July 17, 2013 (78 FR 35110, June 12, 2013).

(i) Piper Aircraft, Inc. Mandatory Service Bulletin No. 644E, dated May 9, 2012.

(ii) Lycoming Service Instruction No. 1238B, Revision B, dated January 6, 2010.

(iii) Lycoming Service Instruction No. 1320, dated March 7, 1975.

(iv) Textron Lycoming Service Instruction No. 1391, dated October 5, 1979.

(5) For the service information identified in this AD, contact Piper Aircraft, Inc., 2926 Piper Drive, Vero Beach, Florida 32960; telephone: (772) 567-4361; fax: (772) 978-6573; Internet: www.piper.com/home/pages/Publications.cfm; or Lycoming Engines, 652 Oliver Street, Williamsport, Pennsylvania 17701; telephone: (570) 323-6181; Internet: <http://www.lycoming.textron.com/support/publications/index.html>; as applicable.

(6) You may review copies of the referenced 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.

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

Issued in Kansas City, Missouri, on November 4, 2014.

Earl Lawrence,
Manager, Small Airplane Directorate,
Aircraft Certification Service.