

**FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES**

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

BIWEEKLY 2017-23

10/30/2017 - 11/12/2017



Federal Aviation Administration
Continued Operational Safety Policy Section, AIR-141
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Oklahoma City, OK 73125-0460

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SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes; R - Replaces			
Biweekly 2017-01			
2016-24-51		Sikorsky Aircraft Corporation	S-92A
2016-25-13	S 2016-04-12	Safran Helicopter Engines, S.A.	Arriel 2B, 2B1, 2C, 2C1, 2C2, 2D, 2E, 2S1, and 2S2
2016-25-14		Airbus Helicopters Deutschland GmbH	BO-105LS A-3
2016-25-19	S 2010-21-07	Airbus Helicopters	AS350B3 and EC130B4
2016-25-20		Airbus Helicopters	EC130B4, EC130T2, AS350B, AS350B1, AS350B2, AS350B3, AS350BA, AS350C, AS350D, AS350D1, AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP
2016-25-28		Airbus Helicopters	AS355NP
2016-26-01		AGUSTAWESTLAND S.P.A.	AB139 and AW139
2016-26-04		Robinson Helicopter Company	R44 and R44 II; R66
2016-26-08	R 2014-22-01	PILATUS AIRCRAFT LTD.	PC-12, PC-12/45, PC-12/47, and PC-12/47E
2016-26-09	S 2016-06-01	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, BN-2T-4R, BN-2T, BN2A MK. III, BN2A MK. III-2, and BN2A MK. III-3
Biweekly 2017-02			
2017-01-12		Diamond Aircraft Industries GmbH	DA 42 airplanes
2017-02-51		Sikorsky Aircraft Corporation	S-92A helicopters
Biweekly 2017-03			
No ADs			
Biweekly 2017-04			
2016-26-08	COR	PILATUS AIRCRAFT LTD.	PC-12, PC-12/45, PC-12/47, and PC-12/47E airplanes
2017-02-06		Piper Aircraft, Inc.	PA-31T, PA-31T1, PA-31T2, PA-31T3, and PA-31P-350 airplanes
2017-02-07		Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2, and Model MBB-BK 117 D-2 helicopters
2017-02-11		Alexander Schleicher GmbH & Co.	ASK 21 gliders
2017-04-51		Safran Helicopter Engines, S.A.	Arriel 1A1, 1A2, 1B, 1C, 1C1, 1C2, 1D, 1D1, 1E2, 1K1, 1S and 1S1 turboshaft engines
Biweekly 2017-05			
2017-02-51		Sikorsky Aircraft Corporation	S-92A helicopters
2017-03-01	S 2014-05-06	Airbus Helicopters Deutschland GmbH	EC135 P1, P2, P2+, T1, T2, and T2+ helicopters
2017-04-03		Pilatus Aircraft Limited	PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC-6/350-H1, PC-6/350-H2, PC-6/A, PC-6/A-H1, PC-6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-H2, PC-6/B2-H4, PC-6/C-H2, and PC-6/C1-H2 airplanes
2017-04-06		United Instruments, Inc.	5934 series altimeters
2017-04-14		Textron Aviation Inc.	560XL airplanes
2017-04-15		Learjet Inc.	36A airplanes
2017-05-03		Airbus Helicopters Deutschland GmbH	BO-105C, BO-105LS A-3, and BO-105S helicopters
2017-05-04		Bell Helicopter Textron Canada Limited	206A, 206B, 206L, 206L1, 206L3, and 206L4 helicopters
2017-05-51		Bell Helicopter Textron Canada	429 helicopters
Biweekly 2017-06			
2017-05-08		Safran Helicopter Engines, S.A.	Arriel 2B turboshaft engines
2017-04-51		Safran Helicopter Engines, S.A.	Arriel 1A1, 1A2, 1B, 1C, 1C1, 1C2, 1D, 1D1, 1E2, 1K1, 1S, and 1S1 turboshaft engines
Biweekly 2017-07			
2017-07-02		Sikorsky Aircraft Corporation	269D and Model 269D Configuration A helicopters

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2017-07-01		M7 Aerospace LLC	SA226-T, SA226-AT, 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
2017-06-03	R 81-09-09	Meggitt (Troy), Inc.	921, 930, 937, 940, 944, 945, 977, 978, 979, 8240, 8253, 8259, and 8472 combustion heaters
Biweekly 2017-08			
2017-07-10		American Champion Aircraft Corp.	8KCAB airplanes
2017-05-51		Bell Helicopter Textron Canada	429 helicopters
2017-07-08		Airbus Helicopters Deutschland GmbH	MBB-BK 117 D-2 helicopters
2017-07-09		Sikorsky Aircraft Corporation	S-92A helicopters
Biweekly 2017-09			
2017-08-07		Learjet, Inc	60
2017-08-09		DG Flugzeugbau GmbH	DG-500MB
2017-08-12		GROB Aircraft AG	GROB G 109 and GROB G 109B
2017-09-02		Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2 and MBB-BK 117 D-2
2017-06-11		Airbus Helicopters	EC120B
Biweekly 2017-10			
2017-09-05		Airbus Helicopters	AS332C, AS332C1, AS332L, AS332L1, AS332L2, and EC225LP helicopters
2017-09-07		Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2 helicopters
Biweekly 2017-11			
2017-10-02	S 2015-11-01	Slingsby Aviation Ltd.	T67M260 and T67M260-T3A airplanes
2017-10-03	R 2003-11-12	ZLIN AIRCRAFT a.s.	Z-242L airplanes
2017-10-09		Textron Aviation Inc.	402C, 414A airplanes
2017-10-11		Stemme AG	S10-VT gliders
2017-10-14	S 2014-07-07	British Aerospace Regional Aircraft	HP.137 Jetstream Mk.1, Jetstream Series 200, and Jetstream Series 3101 airplanes
2017-10-20		Piper Aircraft, Inc.	PA-31, PA-31-300, and PA-31-325; PA-31-350 airplanes
2017-11-03		DG Flugzeugbau GmbH	DG-500MB gliders
Biweekly 2017-12			
2017-10-03	R 2003-11-12	ZLIN AIRCRAFT a.s	Z-242L airplanes
2017-10-14	S 2014-07-07	British Aerospace Regional Aircraft	HP.137 Jetstream Mk.1, Jetstream Series 200, and Jetstream Series 3101 airplanes
2017-11-08		Diamond Aircraft Industries GmbH	DA 42 airplanes
2017-11-09	R 2017-08-07	Learjet, Inc.	60 airplanes
2017-11-11		NavWorx, Inc.	ADS600-B and ADS600-EXP ADS-B Universal Access Transceiver units
2017-11-16		PILATUS AIRCRAFT LTD.	PC-12/47E airplanes
Biweekly 2017-13			
2017-11-10		Lycoming Engines	TIO-540-AJ1A reciprocating engines
2017-12-04	S 2016-20-04	Airbus Helicopters	SA 341G and Model SA 342J helicopters
2017-13-03		Bell Helicopter Textron Canada Limited	429 helicopters
2017-13-04		Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2 (including configuration C-2e) and Model MBB-BK 117 D-2 helicopters
Biweekly 2017-14			
2017-13-06		DG Flugzeugbau GmbH	DG-400, DG-500M, DG-500MB, DG-800A, and DG-800B
Biweekly 2017-15			
2017-10-10		Sikorsky Aircraft Corporation	S-92A helicopters
2017-10-12		Airbus Helicopters	AS332C, AS332C1, AS332L, AS332L1, AS332L2, and EC225LP helicopters

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2017-14-04	R 95-26-13	Piper Aircraft, Inc.	PA-28-140, PA-28-150, PA-28-151, PA-28-161, PA-28-160, PA-28-180, PA-28-181, PA-28-235, PA-28-236, PA-28R-180, PA-28R-200, PA-28R-201, PA-28S-160, PA-28S-180, PA-32-260, PA-32-300, PA-32-301, PA-32-301T, PA-32R-300, PA-32R-301 (SP), PA-32R-301 (HP), PA-32R-301T, PA-32RT-300, PA-32RT-300T, and PA-32S-300 airplanes
2017-14-05	S 93-17-13	Airbus Helicopters	SA330J helicopters
2017-14-06		Sikorsky Aircraft Corporation	TH55A, 269A, 269A-1, 269B, 269C and 269C-1 helicopters
2017-15-02		Bell Helicopter Textron, Inc.	212 and 412 helicopters
Biweekly 2017-16			
2017-14-03		Sikorsky Aircraft Corporation	S-92A helicopters
2017-15-05		Piper Aircraft, Inc.	PA-23, PA-23-160, PA-23-235, PA-23-250, PA-E23-250, and PA-30 airplanes
2017-15-06	R 97-10-05	British Aerospace Regional Aircraft	HP.137 Jetstream Mk.1, Jetstream Series 200 and 3101, and Jetstream Model 3201 airplanes
2017-15-07	R 2017-04-51	Safran Helicopter Engines, S.A.	Arriel 1A1, 1A2, 1B, 1C, 1C1, 1C2, 1D, 1D1, 1E2, 1K1, 1S, and 1S1 turboshaft engines
2017-15-09		Diamond Aircraft Industries GmbH	DA 42 airplanes
2017-15-13		Bell Helicopter Textron Canada Limited	429 helicopters
2017-15-15		R 2002-19-01	SOCATA
2017-16-02		Agusta S.p.A.	A109S helicopters
Biweekly 2017-17			
2017-16-03		Piper Aircraft, Inc.	PA-46-600TP (M600)
2017-16-04		Romtex Anjou Aeronautique (Romtex)	torso restraint systems
2017-16-11		Lycoming Engines	See AD
Biweekly 2017-18			
2017-17-01	S 2014-16-01	Airbus Helicopters	AS332L2 and EC225LP helicopters
2017-17-03		MD Helicopters, Inc.	MD900 helicopters
Biweekly 2017-19			
2017-18-10		Diamond Aircraft Industries GmbH	DA 42, DA 42 M-NG, and DA 42 NG airplanes
2017-18-11		Textron Aviation Inc.	390 airplanes
2017-18-12		R 2016-11-20	B/E Aerospace
2017-18-13	S 2015-22-51	Agusta S.p.A.	A109A and A109A II helicopters
Biweekly 2017-20			
2017-16-01		Ameri-King Corporation	AK-450-() and AK-451-() series emergency locator transmitters
2017-19-15		Technify Motors GmbH	TAE 125-02-99, TAE 125-02-114 reciprocating engines
2017-19-20		General Electric Company	CT7-8A and CT7-9B model turboshaft engines
2017-19-21		Airbus Helicopters	EC225LP helicopters
2017-19-22		R 2014-07-09	British Aerospace Regional Aircraft
Biweekly 2017-21			
2017-18-14	R 2015-02-22	Rolls-Royce Corporation	250-C20, -C20B, -C20F, -C20J, -C20R, -C20R/1, -C20R/2, -C20R/4, -C20W, -C300/A1, and -C300/B1 turboshaft engines
2017-20-13		Piaggio Aero Industries S.p.A.	P-180 airplanes
Biweekly 2017-22			
2017-22-01		Sikorsky Aircraft Corporation	S-92A helicopters

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Biweekly 2017-23

2017-22-05	S 2013-15-03	Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350C, AS350D, and AS350D1 helicopters
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2017-22-05 Airbus Helicopters (Previously Eurocopter France): Amendment 39-19085; Docket No. FAA-2015-4031; Product Identifier 2014-SW-072-AD.

(a) Applicability

This AD applies to Airbus Helicopters Model AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350C, AS350D, and AS350D1 helicopters with a hydraulic pump drive bearing (bearing) part number (P/N) 704A33651243 installed, certificated in any category.

(b) Unsafe Condition

This AD defines the unsafe condition as the seizure of the bearing. This condition could result in hydraulic pump drive belt failure, loss of hydraulic servo assistance, and subsequent loss of control of the helicopter.

(c) Affected ADs

This AD supersedes AD 2013-15-03, Amendment 39-17519 (78 FR 44422, July 24, 2013).

(d) Effective Date

This AD becomes effective December 11, 2017.

(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) For each bearing with less than 115 hours time-in-service (TIS), before accumulating 150 hours TIS, and for each bearing with 115 or more hours TIS, within 50 hours TIS, and for all helicopters thereafter at intervals not to exceed 150 hours TIS:

(i) Grease each bearing in accordance with the Accomplishment Instructions, paragraph 3.B.2.b., of Airbus Helicopters Alert Service Bulletin No. AS350-63.00.24, Revision 0, dated October 21, 2014 (ASB).

(ii) Perform a test ground run. Inspect all grease that comes out of the bearing during the ground run and all grease around the bearing for bronze particles.

(iii) If there are any bronze particles in the grease, before further flight, replace the bearing with bearing P/N 704A33651269. This constitutes terminating action for the inspections in this AD.

Note 1 to paragraph (f)(1)(iii) of this AD: Hydraulic pump drive assembly P/N 350A35-0132-01 is fitted with bearing P/N 704A33651269.

(2) Within 600 hours TIS and thereafter at intervals not to exceed 600 hours TIS:

(i) Visually inspect the bearing for bronze particles in the grease. If there are any bronze particles in the grease, before further flight, replace the bearing with bearing P/N 704A33651269. This constitutes terminating action for the inspections in this AD.

(ii) Manually rotate the bearing and inspect for a friction point, brinelling, and a noise from the bearing. If there is a hard point, any brinelling, or any noise from the bearing, before further flight, replace the bearing with bearing P/N 704A33651269.

(3) Replacing bearing P/N 704A33651243 with bearing P/N 704A33651269, or replacing hydraulic pump drive assembly P/N 350A35-0132-00 with hydraulic pump drive assembly P/N 350A35-0132-01, constitutes terminating action for the inspections required by this AD.

(g) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Safety Management Section, FAA, may approve AMOCs for this AD. Send your proposal to: Stephen Barbini, Manager, Safety Management Section, Policy and Innovation Division, 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.

(h) Additional Information

The subject of this AD is addressed in European Aviation Safety Agency (EASA) AD No. 2014-0233, dated October 23, 2014. You may view the EASA AD on the Internet at <http://www.regulations.gov> in Docket No. FAA-2015-4031.

(i) Subject

Joint Aircraft Service Component (JASC) Code: 2913, Hydraulic Pump (Electric/Engine), Main.

(j) 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) Airbus Helicopters Alert Service Bulletin No. AS350-63.00.24, Revision 0, dated October 21, 2014.

(ii) Reserved.

(3) For Airbus Helicopters service information identified in this AD, contact contact Airbus Helicopters, 2701 N. Forum Drive, Grand Prairie, TX 75052; telephone (972) 641-0000 or (800) 232-0323; fax (972) 641-3775; or at <http://www.airbushelicopters.com/techpub>.

(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 October 17, 2017.
James A. Grigg,
Acting Director, Compliance & Airworthiness Division,
Aircraft Certification Service.