

**FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES**

**SMALL AIRCRAFT, ROTORCRAFT, GLIDERS
BALLOONS, AIRSHIPS, AND UAS**

BIWEEKLY 2022-27

12/19/2022 - 01/01/2023



Federal Aviation Administration
Continued Operational Safety Policy Section, AIR-141
P.O. Box 25082
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SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability
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Information Key: E- Emergency; COR - Correction; R - Replaces, A- Affects

Biweekly 2022-01

2021-05-03		Airbus Helicopters	EC225LP
2021-23-01		Stemme AG	Stemme S 12
2021-23-06		Various Manufactures	234; CH-47D
2021-24-18		Viking Air Limited	DHC-3
2021-24-19		Flugzeugbau GmbH	DG-500MB and DG-1000M
2021-24-21		Embraer S.A.	EMB-500 and EMB-505
2021-24-22	R 2012-06-16	Pilatus Aircraft Ltd.	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
2021-25-01		Leonardo S.p.a.	A109S and AW109SP
2021-25-08		Leonardo S.p.a.	AW189
2021-25-10		Daher Aerospace	TBM 700
2021-25-11	R 78-02-03	Piper Aircraft, Inc.	PA-23-250
2021-26-07	R 2020-11-05	Airbus Helicopters	EC120B
2021-26-08		Bell Textron Canada Limited	206, 206A, 206A-1, 206B, 206B-1, 206L, 206L-1, 206L-3, and 206L-4
2022-01-05	R 2021-24-06	Airbus Helicopters	EC130T2

Biweekly 2022-02

2021-26-14	R 2018-11-01	Airbus Helicopters	AS332L2, EC225LP
2021-26-15		Vulcanair S.p.A.	P.68C, P.68C-TC, P.68 "OBSERVER," P.68 OBSERVER 2, P.68R, and P.68TC
2021-26-18	R 2020-21-01	Airbus Helicopters	OBSERVER AS-365N2, AS 365 N3, and SA-365N1; SA-365C1, SA-365C2, and SA-365N; EC 155B and EC155B1
2022-01-06		Cameron Balloons Ltd.	flange adapter
2022-01-09		Stemme AG	Stemme S 10-VT and Stemme S 12
2022-02-01		Sikorsky Aircraft Corporation	S-92A
2022-02-02	R 2021-15-51	Bell Textron Inc.	204B, 205A, 205A-1, 205B, 210, and 212

Biweekly 2022-03

2021-26-12		Stemme AG	Stemme S 12
2021-26-16		Various Restricted Category Helicopters	UH-1H
2021-26-21		Pilatus Aircraft Ltd.	PC-24
2021-26-24		Leonardo S.p.a.	A109A and A109A II
2021-26-25		Schempp-Hirth Flugzeugbau GmbH	Duo Discus; Duo Discus T
2021-26-26	R 2005-12-08	Safran Helicopter Engines, S.A.	Arrius 2B1, Arrius 2B1A, and Arrius 2B2
2021-26-29		Leonardo S.p.a.	AW169
2022-02-17		Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2, MBB-BK 117 D-2, and MBB-BK 117 D-3
2022-03-03	R 2021-22-20	Austro Engine GmbH	E4 and E4P
2022-03-07		Stemme AG	S6 and S6-RT

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Biweekly 2022-04			
2022-01-01		Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350D, EC130B4, and EC130T2; AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP; SA-365C1, SA-365C2, SA-365N, SA-365N1, AS-365N2, and AS 365 N3
2022-01-03		Umlaut Engineering GmbH	hand-held P3HAFEX fire extinguisher
2022-02-02	COR	Bell Textron Inc.	204B, 205A, 205A-1, 205B, 210, and 212
2022-02-04	R 2021-15-51	Airbus Helicopters	AS350B, AS350B2, AS350B3, and AS350BA
2022-02-06		Airbus Helicopters	EC120B
2022-02-08		Leonardo S.p.a.	AB412 and AB412 EP
2022-02-12		Leonardo S.p.a.	AB139 and AW139
2022-02-13		Airbus Helicopters	EC120B
2022-02-19		Airbus Helicopters Deutschland GmbH	EC135P1, EC135P2, EC135P2+, EC135P3, EC135T1, EC135T2, EC135T2+, and EC135T3
2022-02-20		Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2 and MBB-BK 117 D-2
2022-03-01		Diamond Aircraft Industries GmbH	DA 42 NG; DA 42, and DA 42 M-NG
2022-03-04	R 80-13-10 R 80-13-12 R1 R 2008-03-01	Viking Air Limited	DHC-6-1, DHC-6-100, DHC-6-200, DHC-6-300, and DHC-6-400
2022-03-08		Fiberglas-Technik Rudolf Lindner GmbH & Co. KG	G102 ASTIR CS; G103 TWIN ASTIR, G103 TWIN II, G103A TWIN II ACRO, G103 C TWIN III ACRO, and G 103 C TWIN III SL
2022-03-09	A 2020-08-02	Sikorsky Aircraft Corporation	S-76D
2022-03-23		Textron Aviation Inc.	300, 300LW, B300, and B300C
Biweekly 2022-05			
2022-03-13	R 2014-21-03	Airbus Helicopters	AS332L2
2022-03-15		Various Airplanes	Garmin G3X Touch Electronic Flight Instrument System
2022-03-17		Airbus Helicopters	AS332L2 and EC225LP
2022-03-18		British Aerospace (Operations) Limited and British Aerospace Regional Aircraft	Jetstream Series 200, Jetstream Model 3101, and Jetstream Model 3201
2022-04-01		DG Flugzeugbau GmbH and Schempp-Hirth Flugzeugbau GmbH	DG-1000T and Duo Discus T
2022-04-04		Continental Aerospace Technologies, Inc. and Continental Motors	C-125-1, C-125-2, C145-2, C145-2H, IO-360-C, IO-360-D, IO-360-DB, IO-360-H, IO-360-HB, IO-360-K, IO-360-KB, IO-470-E, IO-470-S, IO-550-B, IO-550-G, O-300-B, O-300-C, O-300-D, O-300-E, O-470-A, O-470-B, O-470-G, O-470-J, O-470-K, O-470-L, O-470-M, O-470-N, O-470-R, O-470-S, O-470-U, O-470-11, O-470-15, TSIO-360-E, TSIO-360-EB, TSIO-360-F, TSIO-360-FB, TSIO-360-GB, TSIO-360-LB, TSIO-360-MB, TSIO-360-SB, TSIO-520-C, TSIO-520-CE, TSIO-520-E, and TSIO-520-UB
2022-05-01		Learjet, Inc.	35, 35A (C-21A), 36, 36A, 55, 55B,

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2022-05-02	R 2021-11-25	Airbus Helicopters	55C, and 60 AS350B3 and EC130T2
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Biweekly 2022-06

2022-04-06	R 2021-06-06	Bell Textron Canada Limited	505
2022-04-09		AVOX Systems Inc.	oxygen cylinder
2022-05-05		Schempp-Hirth Flugzeugbau GmbH	Ventus-2a and Ventus-2b
2022-05-11		Viking Air Limited	DHC-3
2022-05-12	R 2020-12-08	Embraer S.A.	EMB-505
2022-05-14		GROB Aircraft SE	G 115EG

Biweekly 2022-07

2021-03-16R1	R 2021-03-16	Airbus Helicopters	AS350B, AS350B1, AS350B2, AS350B3, AS350BA, AS350D, AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP
2022-05-10		Goodrich Externally-Mounted Hoist Assemblies	hoist assembly
2022-05-13		Honda Aircraft Company LLC	HA-420
2022-06-01		Airbus Helicopters Deutschland GmbH	MBB-BK 117 D-3
2022-06-03	R 2022-02-02	Bell Textron Inc.	204B, 205A, 205A-1, 205B, 210, and 212
2022-06-05	R 2021-15-52	Various Restricted Category Helicopters	Various Models
2022-06-13		Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2 and MBB-BK 117 D-2
2022-06-20	R 2020-20-06	Bell Textron Canada Limited	429
2022-07-03		Bell Textron Inc.	412, 412EP, and 412CF
2022-07-05	R 2022-05-09	MARS A.S.	ATL-88/90-1B

Biweekly 2022-08

2022-06-04		Schempp-Hirth Flugzeugbau GmbH	Janus, Mini-Nimbus HS-7, Nimbus-2, and Standard Cirrus
2022-06-08	R 2017-18-10	Diamond Aircraft Industries GmbH	DA 42, DA 42 M-NG, and DA 42 NG
2022-06-12		Airbus Helicopters	SA330J
2022-06-17		Airbus Helicopters	EC130T2
2022-06-19		Leonardo S.p.a.	AW109SP
2022-07-01	R 2020-23-07	Leonardo S.p.a.	AB139 and AW139
2022-07-02		Bell Textron Inc.	205A and 205A-1; 205B; 210; 212i; 412 and 412EP; 412CF
2022-07-04		Pilatus Aircraft Ltd.	PC-12/47E
2022-07-09		Airbus Helicopters	AS332L2 and EC225LP
2022-07-11	R 2021-17-18	Leonardo S.p.a.	A109C, A109K2, A109E, A109S, and AW109SP
2022-07-12	R 2021-02-20	Hélicoptères Guimbal	Cabri G2
2022-07-14		Viking Air Limited	DHC-6-400

Biweekly 2022-09

2022-08-01	R 2020-22-01	Airbus Helicopters	AS332C, AS332C1, AS332L, and AS332L1
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2022-08-02		Airbus Helicopters	EC 155B and EC155B1
2022-08-03		Textron Aviation Inc.	120 and 140; 140A
2022-08-10	R 2020-12-07	Hamilton Sundstrand Corporation	54H
2022-08-11		Bell Textron Canada Limited	429
2022-08-13		Pratt & Whitney Canada Corp.	PT6A-34, -34B, -34AG, -114, and -114A
2022-08-15		Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2
Biweekly 2022-10			
2022-09-04	R 2021-05-05	Airbus Helicopters	SA-365N1, AS-365N2, AS 365 N3, SA-366G1, EC 155B, and EC155B1
2022-09-07	R 2019-11-05 A 2020-17-10	Bell Textron Canada Limited	429
2022-09-13		Piper Aircraft, Inc.	PA-34-200
2022-09-17		Scheibe-Aircraft-GmbH	SF 25 C
2022-10-51	E	Airbus Helicopters; Airbus Helicopters Deutschland GmbH	AS350B, AS350B1, AS350B2, AS350B3, AS350BA, AS350D, AS355E, AS355F, AS355F1, AS355F2, AS355N, AS355NP, EC130B4, and EC130T2; EC135P1, EC135P2, EC135P2+, EC135P3, EC135T1, EC135T2, EC135T2+, EC135T3, MBB-BK 117 C-2, MBB-BK 117 D-2, and MBB-BK 117 D-3
Biweekly 2022-11			
2022-08-09		Pilatus Aircraft Ltd.	PC-24
2022-10-01		Pilatus Aircraft Ltd.	PC-12/47E
2022-10-03		Viking Air Limited	DHC-6-1, DHC-6-100, DHC-6-200, DHC-6-300, and DHC-6-400
2022-10-07	R 89-24-06 R1	Viking Air Limited	DHC-6-1, DHC-6-100, DHC-6-200, DHC-6-300, and DHC-6-400
Biweekly 2022-12			
2022-10-02	R 2002-03-01	Honeywell International Inc.	T5311A, T5311B, T5313B, T5317A, T5317A-1, T5317B, T5317BCV, and former military T53-L-11, T53-L-11A, T53-L-11B, T53-L-11C, T53-L-11D, T53-L-11A S/SA, T53-L-13B, T53-L-13B S/SA, T53-L-13B S/SB, and T53-L-703
2022-10-06	R 2017-18-14	Rolls-Royce Corporation	250-C20, 250-C20B, 250-C20C (T63-A-720), 250-C20F, 250-C20J, 250-C20R, 250-C20R/1, 250-C20R/2, 250-C20R/4, 250-C20W, 250-C300/A1, and 250-C300/B1
2022-10-09		Airbus Helicopters	SA-365C1 and SA-365C2
2022-10-51	E	Airbus Helicopters and Airbus Helicopters Deutschland GmbH	AS350B, AS350B1, AS350B2, AS350B3, AS350BA, AS350D, AS355E, AS355F, AS355F1, AS355F2, AS355N, AS355NP, EC130B4, and EC130T2; EC135P1, EC135P2, EC135P2+, EC135P3, EC135T1, EC135T2, EC135T2+, EC135T3, MBB-BK 117 C-2, MBB-BK 117 D-2, and MBB-BK 117 D-3

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2022-11-04	R 2020-26-13	Sikorsky Aircraft Corporation	S-92A
2022-11-06		Leonardo S.p.a.	A109S
2022-11-07		Airbus Helicopters Deutschland GmbH	MBB-BK117 A-1, MBB-BK117 A-3, MBB-BK117 A-4, MBB-BK117 B-1, MBB-BK117 B-2, MBB-BK117 C-1, MBB-BK117 C-2, and MBB-BK117 D-2
2022-11-08	A 2011-22-05 R1 A 2016-25-20	Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350D, EC130B4, and EC130T2
2022-11-09		Viking Air Limited	DHC-6-1, DHC-6-100, DHC-6-200, DHC-6-300, and DHC-6-400
2022-11-10		Piper Aircraft, Inc.	PA-46-600TP
2022-11-19		Bell Textron Inc.	212, 412, 412CF, and 412EP
Biweekly 2022-13			
2022-11-12		Viking Air Limited	DHC-6-1, DHC-6-100, DHC-6-200, DHC-6-300, and DHC-6-400
2022-11-16		British Aerospace (Operations) Limited and British Aerospace Regional Aircraft	Jetstream Model 3101; Jetstream Model 3201
2022-11-18		Airbus Helicopters	AS355E, AS355F, AS355F1, AS355F2, AS-365N2, AS 365 N3, SA-365N, SA-365N1, EC 155B, and EC155B1
2022-12-06		Costruzioni Aeronautiche Tecnam S.P.A.	P2012 Traveller
2022-12-07	R 75-23-03	Alexander Schleicher GmbH & Co.	Ka2B, Ka 6, Ka 6 B, Ka 6 BR, Ka 6 C, Ka 6 CR, K 7, K 8, K 8 B, and AS-K 13
2022-12-08		Segelflugzeugbau Robinson Helicopter Company	R22 BETA; R44; R44 II
2022-12-09	R 2017-15-06	British Aerospace (Operations) Limited and British Aerospace Regional Aircraft	HP.137 Jetstream Mk.1, Jetstream Series 200, and Jetstream Model 3101; Jetstream Model 3201
2022-13-01		Leonardo S.p.a	AW169
2022-13-03		Cameron Balloons Ltd.	fuel cylinder
Biweekly 2022-14			
2022-11-20		Leonardo S.p.a.	AB139,AW139
2022-13-07		AutoGyro Certification Limited	Calidus,Cavalon,MTOsport 2017
2022-13-16		GE Aviation Czech s.r.o.	M601D-11
2022-14-51	E	Airbus Helicopters	EC225LP
Biweekly 2022-15			
2022-13-06		Diamond Aircraft Industries Inc	DA 40,DA 40 NG,DA 40F
2022-13-14		Airbus Helicopters	AS-365N2,AS-365N3,EC 155B,EC155B1,SA-365N1
2022-13-15		Williams International Company, L.L.C.	FJ44-2A,FJ44-2C,FJ44-3A,FJ44-3A-24
2022-14-03		Leonardo S.p.a.	AB412,AB412 EP
2022-14-11		Stemme AG	Stemme S 12
2022-14-12		GE Aviation Czech s.r.o.	M601F,M601E-11,M601E-11A,M601D-11,M601E-11AS,M601E-11S
Biweekly 2022-16			
2022-14-14		Alexander Schleicher GmbH & Co. Segelflugzeugbau	ASW -15

SMALL AIRCRAFT

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2022-14-51		Airbus Helicopters	EC225LP
2022-15-02		Cameron Balloons Ltd.,Aerostar International,Ballonbau Worner GmbH,Balony Kubicek spol s.r.o.,Eagle Balloons Corp.,Kubfiek Factory s.r.o.,JR Aerosports, LTD,Lindstrand Balloons Ltd.,Adams Aerostats LLC	N/A
2022-16-03		Continental Aerospace Technologies, Inc.,Lycoming Engines,Textron Lycoming Subsidiary of Textron Inc.	GTSIO-520-C,GTSIO-520-D,GTSIO-520-F,GTSIO-520-H,GTSIO-520-K,GTSIO-520-L,GTSIO-520-M,GTSIO-520-N,IO-346-A,IO-470-C,IO-470-D,IO-470-E,IO-470-F,IO-470-G,IO-470-H,IO-470-J,IO-470-K,IO-470-L,IO-470-M,IO-470-N,IO-470-P,IO-470-R,IO-470-S,IO-470-U,IO-470-V,IO-470-VO,IO-520-A,IO-520-B,IO-520-BA,IO-520-BB,IO-520-C,IO-520-CB,IO-520-D,IO-520-E,IO-520-F,IO-520-J,IO-520-K,IO-520-L,IO-520-P,IO-550-B,IO-550-C,IO-550-D,IO-550-E,IO-550-F,IO-550-L,LSIO-520-AE,O-470-B,O-470-E,O-470-G,O-470-J,O-470-K,O-470-L,O-470-M,O-470-R,O-470-S,O-470-U,TSIO-520-A,TSIO-520-AE,TSIO-520-AF,TSIO-520-B,TSIO-520-BB,TSIO-520-C,TSIO-520-CE,TSIO-520-DB,TSIO-520-G,TSIO-520-H,TSIO-520-KB,TSIO-520-LB,TSIO-520-NB,TSIO-520-P,TSIO-520-R,TSIO-520-T,TSIO-520-UB,TSIO-520-VB,TSIO-520-WB,TSIOL-550-A,TSIOL-550-B,TSIOL-550-C,AEIO-320-D1B,AEIO-320-D2B,AEIO-360-A1B,AEIO-360-A1B6,AEIO-360-A2B,AEIO-360-B1F,AEIO-360-B2F,AEIO-360-B2F6,AEIO-540-D4B5,AIO-320-A1A,AIO-320-A1B,AIO-320-A2A,AIO-320-A2B,AIO-320-B1B,AIO-320-C1B,AIO-360-A1A,AIO-360-A1B,AIO-360-A2A,AIO-360-A2B,AIO-360-B1B,GO-480-G1J6,GSO-480-B1J6,HIO-540-A1A,HIO-360-C1B,HIO-360-D1A,IGO-480-A1A6,IGO-540-A1C,IGSO-480-A1G6,IGSO-540-A1A,IGSO-540-A1C,IGSO-540-A1D,IGSO-540-A1E,IGSO-540-A1F,IGSO-540-A1H,IGSO-540-B1A,IGSO-540-B1C,IO-320-B1D,IO-320-B1E,IO-320-D1A,IO-320-D1B,IO-320-D1C,IO-360-A1B,IO-360-A1B6,IO-360-A1C,IO-360-A1D6,IO-360-A2B,IO-360-A2C,IO-360-B1E,IO-360-B1F,IO-360-B2E,IO-360-B2F,IO-360-B2F6,IO-360-C1B,IO-360-C1C,IO-360-C1C6,IO-360-C1D6,IO-360-C1E6,IO-360-C1F,IO-360-D1A,IO-360-E1A,IO-360-F1A,IO-540-B1A5,IO-540-D4B5,IO-540-D4C5,IO-540-E1B5,IO-540-E1C5,IO-540-G1B5,IO-540-G1C5,IO-540-G1D5,IO-540-G1E5,IO-540-G1F5,IO-540-J4A5,IO-540-K1A5,IO-540-K1B5,IO-540-K1C5,IO-540-K1D5,IO-540-K1E5,IO-540-K1F5,IO-540-K1G5,IO-540-K1H5,IO-540-K1J5,IO-540-K1K5,IO-540-L1A5,IO-540-L1C5,IO-540-M1A5,IO-540-M1C5,IO-

SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability
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540-P1A5,IO-540-R1A5,IO-540-S1A5,IO-540-T4B5,IO-540-W1A5,IO-540-AA1A5,LIO-360-C1E6,LTIO-540-J2B,LTIO-540-U2A,LTIO-540-W2A,O-235-C2B,O-235-E2B,O-235-F2B,O-235-G2B,O-235-J2B,O-235-K2B,O-320-D1C,O-320-D1F,O-320-D2C,O-320-D2F,O-320-E1C,O-320-E1F,O-320-E1J,O-320-E2C,O-320-E2F,O-360-A1F,O-360-A1F6,O-360-A1G,O-360-A1G6,O-360-A2F,O-360-A2G,O-360-A4G,O-360-C1F,O-540-B1D5,O-540-B2C5,O-540-E4C5,O-540-G1A5,O-540-G2A5,TIGO-541-B1A,TIGO-541-C1A,TIGO-541-D1A,TIGO-541-D1B,TIGO-541-E1A,TIO-360-A1A,TIO-360-A1B,TIO-540-A1A,TIO-540-A1B,TIO-540-A1C,TIO-540-A2A,TIO-540-A2B,TIO-540-A2C,TIO-540-C1A,TIO-540-E1A,TIO-540-G1A,TIO-540-H1A,TIO-540-J2B,TIO-540-U2A,TIO-540-W2A,TIO-541-A1A,TIO-541-E1A4,TIO-541-E1B4,TIO-541-E1C4,TIO-541-E1D4,TVO-435-B1B,TVO-435-D1A,TVO-435-F1A,TVO-435-G1A,VO-435-B1A,VO-540-B1H3,VO-540-B2G,VO-540-C2C,IO-720-A1B,IO-720-B1B,IO-720-C1B,TSIO-520-M

Biweekly 2022-17

No ADs

Biweekly 2022-18

2022-17-01

Airbus Helicopters Deutschland GmbH

EC135P1,EC135P2,EC135P2+,EC135P3,EC135T1,EC135T2,EC135T2+/EC635T2+,EC135T3

2022-17-05

R 2002-14-28

Viking Air Limited

DHC-2 Mk.I,DHC-2 Mk.II,DHC-2 Mk.III

Biweekly 2022-19

2022-17-13

Piaggio Aero Industries S.p.A.

P-180

2022-18-02

MT-Propeller Entwicklung GmbH

MTV-5-1-(),MTV-9-(),MTV-12-(),MTV-14-B,MTV-14-D,MTV-15-(),MTV-16-(),MTV-18-(),MTV-27-()

2022-18-03

R 2022-05-13

Honda Aircraft Company LLC

HA-420

2022-18-07

Airbus Helicopters

AS332C,AS332C1,AS332L,AS332L1

2022-18-16

General Electric Company

CT7-8A

Biweekly 2022-20

2022-19-03

R 2016-26-08

Pilatus Aircraft Ltd.

PC-12,PC-12/45,PC-12/47,PC-12/47E

2022-19-08

Airbus Helicopters

SA341G,SA342J

2022-19-11

Costruzioni Aeronautiche Tecnam S.P.A.

P2006T

2022-19-12

R 2021-19-08

Robinson Helicopter Company

R44,R44 II,R66

2022-19-13

A 2011-22-05 R1
A 2016-25-20

Airbus Helicopters

AS355E,AS355F,AS355F1,AS355F2,AS355N,AS355NP

SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability
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Information Key: E- Emergency; COR - Correction; R - Replaces, A- Affects

Biweekly 2022-21

2022-19-07		Piaggio Aviation S.p.A.	P-180
2022-20-01		Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2
2022-21-51	E	Viking Air Limited	DHC-3

Biweekly 2022-22

2022-20-07	R 2021-10-10	Airbus Helicopters	SA330J
2022-21-11		Bell Textron Inc.,Rotorcraft Development Corporation,Southwest Florida Aviation International,Robinson Air Crane Inc.,Tamarack Helicopters Inc.,Overseas Aircraft Support Inc.,Richards Heavylift Helo Inc.,International Helicopters Inc.,Red Tail Flying Services LLC,WSH LLC,Smith Helicopters,West Coast Fabrications,AST Inc.,California Department of Forestry,Arrow Falcon Exporters Inc.,Global Helicopter Technology Inc.,Hagglund Helicopters LLC,JJASPP Engineering Services LLC,Northwest Rotorcraft LLC	204B,205A,205A-1,TH-1F,TH-1L,UH-1A,UH-1B,UH-1E,UH-1F,UH-1H,UH-1L,UH-1P,SW205A-1,SW205 (UH-1H)

Biweekly 2022-23

2022-20-10		Vulcanair S.p.A.	P.68,P.68B,P.68C,P.68C-TC,P.68 Observer,P.68TC Observer,P.68 Observer 2,P.68R
2022-20-11		Bell Textron Canada Limited	429
2022-21-13	R 2021-23-17	Hoffmann GmbH & Co. KG	HO-V 72
2022-22-03		Leonardo S.p.a.	AB139,AW139
2022-22-05		NZSkydive Limited	FBA-2C1,FBA-2C2,FBA-2C3,FBA-2C4
2022-23-08		Viking Air Limited	DHC-3

Biweekly 2022-24

2022-20-04	R 2021-26-08	Bell Textron Canada Limited	206,206A,206A-1 (OH-58A),206B,206B-1,206L,206L-1,206L-3,206L-4
2022-21-15		Diamond Aircraft Industries GmbH	DA 42,DA 42 NG,DA 42 M-NG
2022-21-51		Viking Air Limited	DHC-3
2022-22-02		Airbus Helicopters	SA-365N,SA-365N1,AS-365N2,AS-365N3,EC 155B,EC155B1
2022-22-07		Piaggio Aviation S.p.A.	P-180
2022-22-08		Bell Textron Canada Limited	206L,206L-1,206L-3,206L-4
2022-22-12		Bell Textron Inc.,Erickson 214 Holdings LLC,Leonardo S.p.a.,Rotorcraft Development Corporation,Robinson Air Crane Inc.,Tamarack Helicopters Inc.,Overseas Aircraft Support Inc.,Richards Heavylift Helo Inc.,International Helicopters Inc.,Red Tail Flying Services LLC,Southwest Florida Aviation International,WSH LLC,Smith Helicopters,West Coast Fabrications,AST Inc.,California	204B,SW204 (UH-1B),SW204HP (UH-1B),205A,205A-1,205B,210,212,412CF,412EP,214B,214B-1,AB412,AB412 EP,HH-1K,TH-1F,TH-1L,UH-1A,UH-1B,UH-1E,UH-1F,UH-1H,SW205 (UH-1H),UH-1L,UH-1P

SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability
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Information Key: E- Emergency; COR - Correction; R - Replaces, A- Affects

Department of Forestry, Arrow Falcon Exporters Inc., Global Helicopter Technology Inc., Haggglund Helicopters LLC, JJASPP Engineering Services LLC, Northwest Rotorcraft LLC	204B, SW204 (UH-1B), SW204HP (UH-1B), 205A, 205A-1, 205B, 210, 212, 412, 412CF, 412EP, 214B, 214B-1, AB412, AB412 EP, HH-1K, TH-1F, TH-1L, UH-1A, UH-1B, UH-1E, UH-1F, UH-1H, SW205 (UH-1H), UH-1L, UH-1P
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Biweekly 2022-25

2022-20-14		Bell Textron Inc., Rotorcraft Development Corporation, Southwest Florida Aviation International, Robinson Air Crane Inc., Tamarack Helicopters Inc., Overseas Aircraft Support Inc., Richards Heavylift Helo Inc., International Helicopters Inc., Red Tail Flying Services LLC, WSH LLC, Smith Helicopters, West Coast Fabrications, AST Inc., California Department of Forestry, Arrow Falcon Exporters Inc., Global Helicopter Technology Inc., Haggglund Helicopters LLC, JJASPP Engineering Services LLC, Northwest Rotorcraft LLC	204B, 205A, 205A-1, 205B, 210, 212, 412, 412CF, 412EP, HH-1K, SW205A-1, TH-1F, TH-1L, UH-1A, UH-1B, SW204 (UH-1B), SW204HP (UH-1B), UH-1E, UH-1F, UH-1H, SW205 (UH-1H), UH-1L, UH-1P
2022-23-02	R 99-23-18 R 2005-03-07 R 2013-12-07 R 2014-04-07	Bell Textron Canada Limited	407
2022-23-05		Airbus Helicopters	AS332C, AS332C1, AS332L, AS332L1, AS332L2
2022-23-06		Airbus Helicopters	SA330J
2022-24-04	R 2022-07-05	N/A	N/A
2022-24-07	R 77-04-06 R 2002-13-06 R 2016-25-14 R 2021-10-14	Airbus Helicopters Deutschland GmbH	BO-105A, BO-105C, BO-105S, BO-105LS A-1, BO-105LS A-3
2022-24-08		Bell Textron Canada Limited	505
2022-24-12	R 2020-23-05	Airbus Helicopters	EC225LP

Biweekly 2022-26

2022-26-03		Leonardo S.p.a.	AW169
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Biweekly 2022-27

2022-26-01		GE Aviation Czech s.r.o.	M601D-11, M601E-11, M601E-11A, M601E-11AS, M601E-11S, M601F, H75-100, H75-200, H80, H80-100, H80-200, H85-100, H85-200
2022-27-03		Leonardo S.p.a.	AB139, AW139
2022-27-08		Bell Textron Canada Limited	407

PART 39-AIRWORTHINESS DIRECTIVES

The authority citation for part 39 continues to read as follows:

[Amended]

The FAA amends §39.13 by adding the following new airworthiness directive:

2022-26-01 GE Aviation Czech s.r.o (Type Certificate previously held by WALTER Engines a.s., Walter a.s., and MOTORLET a.s.): Amendment 39-22279; Docket No. FAA-2022-1239; Project Identifier MCAI-2022-00301-E.

(a) Effective Date

This airworthiness directive (AD) is effective January 26, 2023.

(b) Affected ADs

None.

(c) Applicability

This AD applies to GE Aviation Czech s.r.o. (GEAC) M601D-11, M601E-11, M601E-11A, M601E-11AS, M601E-11S, M601F, H75-100, H75-200, H80, H80-100, H80-200, H85-100, and H85-200 model turboprop engines installed on single-engine airplanes, with an installed combustion chamber outer liner having part numbers (P/Ns) M601-229.3, M601-229.3A, M601-229.3B, M601-229.31A, or M601-229.31B.

(d) Subject

Joint Aircraft System Component (JASC) Code 7240, Turbine Engine Combustion Section.

(e) Unsafe Condition

This AD was prompted by reports of cracks in dilution tube weld areas of the combustion chamber outer liner. The FAA is issuing this AD to prevent failure of the combustion chamber outer liner. The unsafe condition, if not addressed, could result in uncontained release of the combustion chamber outer liner, loss of engine power, and reduced control of the airplane.

(f) Compliance

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

(g) Required Actions

(1) At the next 300-hour (Type 3) engine inspection, or within 25 flight hours (FHs) after the effective date of this AD, whichever occurs later, and thereafter at intervals not to exceed 300 FHs, perform a borescope inspection (BSI) of the dilution tube weld areas of the combustion chamber outer liner in accordance with

the Accomplishment Instructions, paragraph 2.1 of GEAC Alert Service Bulletin (ASB) ASB-H75-72-40-00-0056 [01], ASB-M601E-72-40-00-0113 [01], ASB-H80-72-40-00-0099 [01], ASB-M601D-72-40-00-0081 [01], ASB-M601F-72-40-00-0064 [01], ASB-M601Z-72-40-00-0063 [01], and ASB-H85-72-40-00-0045 [01] (single document; formatted as service bulletin identifier [revision number]), dated February 16, 2022 (the ASB).

(2) If a crack is detected during any BSI required by paragraph (g)(1) of this AD, before further flight, perform the applicable corrective actions in accordance with the Accomplishment Instructions, paragraph 2.1, Table 1 of the ASB.

(h) Terminating Action

Replacing the affected combustion chamber outer liner with a combustion chamber outer liner that does not have P/N M601-229.3, M601-229.3A, M601-229.3B, M601-229.31A, or M601-229.31B, constitutes a terminating action for the repetitive inspections required by paragraph (g)(1) of this AD.

(i) Conditional Part Installation

(1) After the effective date of this AD, it is permissible to install an engine, having an affected combustion chamber outer liner installed, on a single-engine airplane, provided that prior to operation, the BSI required by paragraph (g)(1) of this AD is performed and, depending on the findings, the applicable corrective actions are performed as required by paragraph (g)(2) of this AD.

(2) After the effective date of this AD, it is permissible to install an affected combustion chamber outer liner on the engine of a single-engine airplane, provided that it is a part eligible for installation, as defined in paragraph (j) of this AD, and provided that prior to operation, the BSI required by paragraph (g)(1) of this AD is performed and, depending on the findings, the applicable corrective actions are performed as required by paragraph (g)(2) of this AD.

(j) Definitions

For the purpose of this AD, a “part eligible for installation” is an affected combustion chamber outer liner, which was not previously installed on an engine, or an affected combustion chamber outer liner that, before installation, has passed an inspection (no defects found) in accordance with the Accomplishment Instructions, paragraphs 2.2 and 2.3 of the ASB, or a combustion chamber outer liner that does not have P/Ns M601-229.3, M601-229.3A, M601-229.3B, M601-229.31A, or M601-229.31B.

(k) Alternative Methods of Compliance (AMOCs)

The Manager, ECO Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in §39.19. In accordance with §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 certification office, send it to the attention of the person identified in paragraph (l)(2) of this AD or email to: . 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.

(l) Additional Information

(1) Refer to European Union Aviation Safety Agency (EASA) AD 2022-0034, dated March 4, 2022, for related information. This EASA AD may be found in the AD docket at *regulations.gov* under Docket No. FAA-2022-1239.

(2) For more information about this AD, contact Barbara Caufield, Aviation Safety Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: (781) 238-7146; email: .

(m) 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 and .

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

(i) GE Aviation Czech s.r.o. (GEAC) Alert Service Bulletin (ASB) ASB-H75-72-40-00-0056 [01], ASB-M601E-72-40-00-0113 [01], ASB-H80-72-40-00-0099 [01], ASB-M601D-72-40-00-0081 [01], ASB-M601F-72-40-00-0064 [01], ASB-M601Z-72-40-00-0063 [01], and ASB-H85-72-40-00-0045 [01] (single document; formatted as service bulletin identifier [revision number]), dated February 16, 2022.

(ii) [Reserved]

(3) For GEAC service information identified in this AD, contact GE Aviation Czech s.r.o., Beranových 65, 199 02 Praha 9, Letany, Czech Republic; phone: +420 222 538 111.

(4) You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 1200 District Avenue, Burlington, MA 01803. 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, email: , or go to: .

Issued on December 7, 2022.

Christina Underwood,

Acting Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[Filed 12-21-22; 8:45 am]

BILLING CODE 4910-13-P

PART 39-AIRWORTHINESS DIRECTIVES

The authority citation for part 39 continues to read as follows:

[Amended]

The FAA amends §39.13 by:

Removing Airworthiness Directive 2021-20-10, Amendment 39-21748 (, October 18, 2021); and

Adding the following new airworthiness directive:

2022-27-03 Leonardo S.p.a.: Amendment 39-22288; Docket No. FAA-2022-0465; Project Identifier AD-2022-00330-R.

(a) Effective Date

This airworthiness directive (AD) is effective January 31, 2023.

(b) Affected ADs

This AD replaces AD 2021-20-10, Amendment 39-21748 (, October 18, 2021) (AD 2021-20-10).

(c) Applicability

This AD applies to Leonardo S.p.a. Model AB139 and AW139 helicopters, certificated in any category, with a main rotor gearbox (MGB) part number (P/N) 3G6320A00131, 3G6320A00132, 3G6320A00133, 3G6320A00134, 3G6320A00135, 3G6320A00136, 3G6320A22031, 4G6320A00132, or 4G6320A00133, and MGB spherical bearing lock nut (lock nut) P/N 3G6320A09151 installed.

(d) Subject

Joint Aircraft Service Component (JASC) Code: 6320, Main Rotor Gearbox.

(e) Unsafe Condition

This AD was prompted by a cracked MGB lock nut. The FAA is issuing this AD to replace an affected MGB lock nut with a new MGB lock nut. The unsafe condition, if not addressed, could result in failure of the MGB planetary gears, resulting in loss of control of the helicopter.

(f) Compliance

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

(g) Required Actions

(1) Within 100 hours time-in-service, or during the next scheduled MGB overhaul, whichever occurs first after November 22, 2021 (the effective date of AD 2021-20-10), remove each MGB lock nut P/N 3G6320A09151 from service and replace with MGB lock nut P/N 3G6320A09152 in accordance with Annex A, steps 1 through 17, of Leonardo Helicopters Alert Service Bulletin No. 139-609, Revision A, dated April 13, 2021, except you are not required to send parts to Leonardo Helicopters.

Note 1 to paragraph (g)(1): Leonardo Helicopters service information refers to an MGB lock nut as a ring nut.

(2) As of November 22, 2021 (the effective date of AD 2021-20-10), do not install any MGB having MGB lock nut P/N 3G6320A09151 on any helicopter, and do not install any MGB lock nut P/N 3G6320A09151 on any helicopter.

(h) Special Flight Permits

Special flight permits are prohibited.

(i) Alternative Methods of Compliance (AMOCs)

(1) The Manager, International Validation Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in . In accordance with , send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the International Validation Branch, send it to the attention of the person identified in paragraph (j)(2) of this AD. Information may be emailed to: .

(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.

(3) AMOCs approved previously for AD 2021-20-10 are approved as AMOCs for the corresponding requirements in paragraph (g) of this AD.

(j) Related Information

(1) Refer to EASA AD 2021-0121, dated May 4, 2021, for related information. This EASA AD may be found in the AD docket at *regulations.gov* under Docket No. FAA-2022-0465.

(2) For more information about this AD, contact Kristi Bradley, Program Manager, COS Program Management Section, Operational Safety Branch, Compliance & Airworthiness Division, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone (817) 222-5110; email .

(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 and .

(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 November 22, 2021 (, October 18, 2021).

(i) Leonardo Helicopters Alert Service Bulletin No. 139-609, Revision A, dated April 13, 2021.

(ii) [Reserved]

(4) For service information identified in this AD, contact Leonardo S.p.a. Helicopters, Emanuele Bufano, Head of Airworthiness, Viale G. Agusta 520, 21017 C. Costa di Samarate (Va) Italy; telephone +39-0331-225074; fax +39-0331-229046; or at *customerportal.leonardocompany.com/en-US/*.

(5) 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.

(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, email: , or go to: .

Issued on December 20, 2022.

Christina Underwood,

Acting Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[Filed 12-23-22; 8:45 am]

BILLING CODE 4910-13-P

PART 39-AIRWORTHINESS DIRECTIVES

The authority citation for part 39 continues to read as follows:

[Amended]

The FAA amends §39.13 by adding the following new airworthiness directive:

2022-27-08 Bell Textron Canada Limited: Amendment 39-22293; Docket No. FAA-2022-1658; Project Identifier MCAI-2022-01597-R.

(a) Effective Date

This airworthiness directive (AD) is effective January 12, 2023.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Bell Textron Canada Limited Model 407 helicopters serial numbers 53000 through 53900 inclusive, 53911 through 53999 inclusive, 54000 through 54166 inclusive, 54300 through 54800 inclusive, 54805 through 54954 inclusive, 54956 through 54997 inclusive, 54999, and 56300 through 56304 inclusive, certificated in any category.

(d) Subject

Joint Aircraft System Component (JASC) Code: 5302, Rotorcraft Tail Boom.

(e) Unsafe Condition

This AD was prompted by an accident. The FAA is issuing this AD to address failure of the tailboom attachment hardware. The unsafe condition, if not addressed, could result in separation of the tailboom from the helicopter and subsequent loss of control of the helicopter.

(f) Compliance

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

(g) Requirements

Except as specified in paragraph (h) of this AD: Comply with all required actions and compliance times specified in, and in accordance with, Transport Canada AD CF-2022-68, dated December 15, 2022 (Transport Canada AD CF-2022-68).

(h) Exceptions to Transport Canada AD CF-2022-68

- (1) Where Transport Canada AD CF-2022-68 requires compliance in terms of hours air time, this AD requires using hours time-in-service (TIS).
- (2) Where Transport Canada AD CF-2022-68 refers to its effective date, this AD requires using the effective date of this AD.
- (3) Where paragraph A. of Transport Canada AD CF-2022-68 refers to torque checks, this AD requires torque inspections.
- (4) Where the service information referenced in paragraph A. of Transport Canada AD CF-2022-68 specifies to retain removed parts for further investigation, this AD does not include that requirement.
- (5) Where paragraph A. of Transport Canada AD CF-2022-68 specifies to “carry out the repetitive torque check of the tailboom attachment nuts at all four locations in accordance with the applicable ASB until the torque has stabilized;” for this AD, accomplish that torque inspection after accumulating 1 hour TIS, but not to exceed 5 hours TIS, after replacing each affected bolt and nut set. If the torque on a tailboom attachment nut is not within its allowable torque limit, before further flight, re-torque the nut to its allowable torque limit. Thereafter, repeat the torque inspection of each tailboom attachment nut after accumulating 1 hour TIS, but not to exceed 5 hours TIS, until the torque for all four tailboom attachment points has stabilized.
- (6) Where paragraph C. of Transport Canada AD CF-2022-68 refers to “defect,” this AD defines that as a crack, dent, loose fastener, unsecure attachment, deformation, or corrosion.
- (7) Where paragraph C. of Transport Canada AD CF-2022-68 specifies to contact Bell Product Support Engineering for a repair or instructions to rectify any defect, this AD requires repair done in accordance with a method approved by the Manager, General Aviation & Rotorcraft Section, International Validation Branch, FAA; or Transport Canada; or Bell Textron Canada Ltd.'s Transport Canada Design Approval Organization (DAO). If approved by the DAO, the approval must include the DAO-authorized signature.
- (8) Where the service information referenced in paragraph C. of Transport Canada AD CF-2022-68 specifies to discard parts, this AD requires removing those parts from service.
- (9) Where paragraph D. of Transport Canada AD CF-2022-68 specifies to report inspection results to Bell Product Support Engineering within 30 days after accomplishing the inspections required by paragraphs A. or C., this AD requires reporting inspection results at the applicable time in paragraph (h)(9)(i) or (ii) of this AD.
 - (i) If the inspection was done on or after the effective date of this AD: Submit the report within 10 days after accomplishing the actions required by paragraph A. or C. of Transport Canada AD CF-2022-68.
 - (ii) If the inspection was done before the effective date of this AD: Submit the report within 10 days after the effective date of this AD.

(i) Special Flight Permit

Special flight permits may be issued in accordance with and , provided no passengers are onboard.

(j) Alternative Methods of Compliance (AMOCs)

(1) The Manager, International Validation Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in . In accordance with , send your request to your principal inspector

or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the International Validation Branch, send it to the attention of the person identified in paragraph (k) of this AD. Information may be emailed to: .

(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

For more information about this AD, contact Kristi Bradley, Program Manager, COS Program Management Section, Operational Safety Branch, Compliance & Airworthiness Division, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone (817) 222-5110; email .

(l) 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 and .

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

(i) Transport Canada AD CF-2022-68, dated December 15, 2022.

(ii) [Reserved]

(3) For Transport Canada AD CF-2022-68, contact Transport Canada, Transport Canada National Aircraft Certification, 159 Cleopatra Drive, Nepean, Ontario, K1A 0N5, CANADA; telephone 888-663-3639; email ; internet tc.canada.ca/en/aviation. You may find the Transport Canada material on the Transport Canada website at tc.canada.ca/en/aviation.

(4) You may view this service information at the 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 material that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, email , or go to: .

Issued on December 21, 2022.

Christina Underwood,

Acting Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[Filed 12-23-22; 11:15 am]

BILLING CODE 4910-13-P