

**FEDERAL AVIATION ADMINISTRATION  
AIRWORTHINESS DIRECTIVES**

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

**BIWEEKLY 2021-24**

*11/8/2021 - 11/21/2021*



Federal Aviation Administration  
Continued Operational Safety Policy Section, AIR-141  
P.O. Box 25082  
Oklahoma City, OK 73125-0460

## CHANGE OF ADDRESS NOTICE

Any change of address regarding the biweekly service must include the mailing label from a recent issue or your name and address printed exactly as they appear on the mailing label (including the computer number above the address).

Please allow one month for an address change.

MAIL YOUR ADDRESS CHANGE TO:

Superintendent of Documents  
Government Printing Office  
Mail List Branch SSOM  
Washington, DC 20402

Telephone: (202) 512-1806  
Facsimile: (202) 512-2250

## SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

AD No.	Information	Manufacturer	Applicability
--------	-------------	--------------	---------------

Information Key: E – Emergency; COR – Correction; R – Replaces, A – Affects

### Biweekly 2021-01

2020-26-10		Leonardo S.p.a.	A119 and AW119 MKII
2020-26-13		Sikorsky Aircraft Corporation	S-92A
2020-26-14	R 75-16-20	Mitsubishi Heavy Industries, Ltd.	MU-2B, MU-2B-10, MU-2B-15, MU-2B-20, MU-2B-25, MU-2B-26, MU-2B-26A, MU-2B-30, MU-2B-35, MU-2B-36, MU-2B-36A, MU-2B-40, and MU-2B-60

### Biweekly 2021-02

2020-26-16		Piper Aircraft, Inc.	PA-28-151, PA-28-161, PA-28-181, PA-28-235, PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-32-260, PA-32-300, PA-32R-300, PA-32RT-300, and PA-32RT-300T
------------	--	----------------------	---

### Biweekly 2021-03

2021-01-02		M7 Aerospace LLC	SA26-AT and SA26-T
------------	--	------------------	--------------------

### Biweekly 2021-04

2021-02-20		Hélicoptères Guimbal	Cabri G2
2021-04-04	R 2020-19-02	Airbus Helicopters	SA330J
2021-04-06		Pilatus Aircraft Ltd.	PC-7

### Biweekly 2021-05

2020-26-19		Pilatus Aircraft Ltd.	PC-7
2021-01-05		Pilatus Aircraft Ltd.	PC-24
2021-02-03		Leonardo S.p.a.	AW189
2021-02-04		Pilatus Aircraft Ltd.	PC-12/47E
2021-03-01	R 2018-05-09	Airbus Helicopters	AS332C, AS332C1, AS332L, AS332L1, and SA330J
2021-03-04		Airbus Helicopters Deutschland GmbH	EC135P1, EC135P2, EC135P2+, EC135P3, EC135T1, EC135T2, EC135T2+, and EC135T3
2021-03-06		Airbus Helicopters	SA-365N, SA-365N1, AS-365N2, AS 365 N3, EC 155B, and EC155B1
2021-03-07		Leonardo S.p.a.	AB139 and AW139
2021-03-13		Bell Textron Canada Limited	429
2021-03-15	R 2020-13-02	Leonardo S.p.a.	A119 and AW119 MKII
2021-03-16		Airbus Helicopters	AS350B, AS350B1, AS350B2, AS350B3, AS350BA, AS350D, AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP
2021-04-03		Pilatus Aircraft Ltd.	PC-24
2021-04-07		Piper Aircraft, Inc.	PA-46-350P; PA-46-500TP; PA-46R-350T
2021-04-08		Airbus Helicopters	AS350B3
2021-05-52	E	Bell Textron Canada Limited	505

### Biweekly 2021-06

2021-02-01	R 2015-26-01	Airbus Helicopters	AS332C, AS332C1, AS332L, AS332L1, AS332L2, EC225LP, AS-365N2, AS 365 N3, EC 155B and EC155B1
2021-02-08	R 2018-19-01	Airbus Helicopters	AS-365N2, AS 365 N3, EC 155B, EC155B1, SA-365N, SA-365N1, and SA-366G1
2021-02-09		Airbus Helicopters	EC 155B and EC155B1
2021-02-11		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, and MBB-BK117 C-2
2021-04-01		Leonardo S.p.a.	AB139 and AW139
2021-04-10		Textron Aviation, Inc.	208 and 208B
2021-04-12		Robinson Helicopter Company	R66
2021-04-13		Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, and AS350D; AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP; EC130 B4 and EC130 T2
2021-04-15		Airbus Helicopters	AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP; AS350B3
2021-04-16		Sikorsky Aircraft Corporation	S-92A
2021-04-17		Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350D, AS355E, AS355F, AS355F1, AS355F2, and AS355N
2021-04-18	R 2020-23-02	Airbus Helicopters	EC225LP

## SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

AD No.	Information	Manufacturer	Applicability
Information Key: E – Emergency; COR – Correction; R – Replaces, A – Affects			
2021-04-19		Bell Textron Inc.	205B
2021-05-01		Airbus Helicopters	SA330J
2021-05-02		Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350C, and AS350D; AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP; EC130B4 and EC130T2
2021-05-04		Leonardo S.p.a.	A109S and AW109SP
2021-05-05	R 2016-23-05	Airbus Helicopters	SA-365N1, AS-365N2, AS 365 N3, SA-366G1, EC 155B, and EC155B1
2021-05-07		Airbus Helicopters Deutschland GmbH	BO-105A, BO-105C, and BO-105S; MBB-BK 117 A-1, MBB-BK 117 A-3, MBB-BK 117 A-4, MBB-BK 117 B-1, MBB-BK 117 B-2, and MBB-BK 117 C-1
2021-05-08		Safran Helicopter Engines, S.A.	Arriel 2C, 2C1, 2S1, and 2S2
2021-05-09	R 2018-15-02	Airbus Helicopters	AS350B, AS350B1, AS350B2, AS350B3, AS350BA, AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP
2021-05-22		Safran Helicopter Engines, S.A.	Arriel 1B, Arriel 1C, Arriel 1C2, and Arriel 1D1; Astazou XIV B and Astazou XIV H
<b>Biweekly 2021-07</b>			
2021-05-06		Airbus Helicopters	AS332C, AS332C1, AS332L, AS332L1, AS332L2, EC 155B, EC155B1, EC225LP, and SA330J
2021-05-13		Leonardo S.p.a.	AW189
2021-05-14		Air Tractor, Inc.	AT-250, AT-300, AT-301, AT-302, AT-400, AT-400A, AT-401, AT-401A, AT-401B, AT402, AT-402A, AT-402B, AT-501, AT-502, AT-502A, AT-502B, AT-503, AT-503A, AT-504, AT-602, AT-802, and AT-802A
2021-05-17	R 2019-12-09	Rockwell Collins, Inc.	Flight Display System Application FDSA-6500
2021-06-02		Airbus Helicopters	AS332L, AS332L1, AS332C, and AS332C1
2021-06-06	R 2021-05-52	Bell Textron Canada Limited	505
2021-07-05	R 2007-26-52	Leonardo S.p.a.	A109C, A109E, and A109K2
2021-07-08	R 97-26-02	Airbus Helicopters Deutschland GmbH	BO-105A, BO-105C, BO-105S, BO-105LS A-1, and BO-105LS A-3
<b>Biweekly 2021-08</b>			
2021-04-21		Airbus Helicopters	EC120B
2021-05-15	A 2019-09-03	Airbus Helicopters	AS332C, AS332C1, AS332L, and AS332L1
2021-05-19		Sikorsky Aircraft and Sikorsky Aircraft Corporation	S-61L, S-61N, S-61NM, and S-61R; S-61A, S-61D, S-61E, and S-61V
2021-05-21	R 2017-23-08	Leonardo S.p.a.	AB139 and AW139
2021-06-01		Pilatus Aircraft Ltd.	PC-24
2021-06-05	R 2017-07-08	Airbus Helicopters Deutschland GmbH	MBB-BK 117 D-2
2021-07-07		Airbus Helicopters	EC 155B and EC155B1
2021-07-12		Airbus Helicopters Deutschland GmbH	EC135P1, EC135P2, EC135P2+, EC135P3, EC135T1, EC135T2, EC135T2+, and EC135T3
2021-07-13		Pacific Scientific Company	rotary buckle assembly
2021-07-15	R 82-20-05	Airbus Helicopters	AS350B, AS350B1, AS350B2, AS350B3, AS350BA, AS350C, AS350D, AS350D1, AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP
2021-08-07		Rockwell Collins, Inc.	GPS-4000S
<b>Biweekly 2021-09</b>			
2021-07-16		Leonardo S.p.a.	AB412
2021-08-06	R 97-06-10	Textron Aviation Inc.	76
2021-08-15		Garmin International	GMN-00962 GTS
2021-08-18	R 2021-04-16	Sikorsky Aircraft Corporation	S-92A
2021-09-02	R 2021-04-07	Piper Aircraft, Inc.	PA-46-350P (Malibu Mirage), PA-46R-350T (Malibu Matrix), and PA-46-500TP (Malibu Meridian)
2021-09-04		Austro Engine GmbH	E4 and E4P
2021-09-07	R 2019-17-02	Airbus Helicopters Deutschland GmbH	EC135P1, EC135P2, EC135P2+, EC135P3, EC135T1, EC135T2, EC135T2+, and EC135T3
2021-09-09		Uninsured United Parachute Technologies, LLC	Vector 3 SE

## SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

AD No.	Information	Manufacturer	Applicability
--------	-------------	--------------	---------------

Information Key: E – Emergency; COR – Correction; R – Replaces, A – Affects

### Biweekly 2021-10

2021-08-05		Airbus Helicopters	SA341G and SA342J
2021-08-16		PZL Swidnik S.A.	W-3A
2021-08-17		Airbus Helicopters	AS332L2
2021-09-05	R 2016-08-20	Airbus Helicopters	EC130B4 and EC130T2
2021-10-08		Bell Textron Canada Limited	206L, 206L-1, 206L-3, and 206L-4

### Biweekly 2021-11

2021-08-02		Safran Helicopter Engines, S.A.	Arriel 2D and Arriel 2E
2021-09-14	R 2010-16-51	Airbus Helicopters	SA330J
2021-10-01		Leonardo S.p.a.	AW169
2021-10-03	R 2019-03-12	Airbus Helicopters	EC225LP
2021-10-10		Airbus Helicopters	SA330J
2021-10-14	A 2016-25-14	Airbus Helicopters Deutschland GmbH	BO-105A, BO-105C, BO-105S, and BO-105LS A-3
2021-10-24	R 2015-25-04	Leonardo S.p.a.	A109A and A109A II

### Biweekly 2021-12

2021-10-15		Airbus Helicopters Deutschland GmbH	MBB-BK 117 C-2; MBB-BK 117 D-2
2021-10-16		Carson Helicopters, Inc. Croman Corporation Sikorsky Aircraft Corporation Siller Helicopters	S-61L; SH-3H; S-61A, S-61D, S-61E, and S-61V; CH-3E; SH-3A
2021-10-17		Mooney International Corporation	M20V
2021-10-18		Airbus Helicopters Deutschland GmbH	MBB-BK117 D-2
2021-10-21	R 2019-07-07	Airbus Helicopters Deutschland GmbH	BO-105A, BO-105C, BO-105S, BO105LS A-3, MBB-BK 117A-1, MBB-BK 117A-3, MBB-BK 117A-4, MBB-BK 117B-1, MBB-BK 117B-2, MBB-BK 117C-1, MBB-BK 117C-2, and MBB-BK 117D-2
2021-10-23		Airbus Helicopters Deutschland GmbH	MBB-BK 117 D-2
2021-10-25		Airbus Helicopters	EC130B4 and EC130T2

### Biweekly 2021-13

2021-10-28		Pilatus Aircraft Ltd.	PC-24
2021-11-01	R 2013-20-13	Bell Textron Canada Limited	206B and 206L
2021-11-03		Airbus Helicopters	EC 155B, EC155B1, SA-365N, SA-365N1, AS-365N2, and AS 365 N3
2021-11-05		Airbus Helicopters	EC225LP
2021-11-08	R 2014-25-04	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
2021-11-09		Airbus Helicopters Deutschland GmbH	MBB-BK 117 A-1, MBB-BK 117 A-3, MBB-BK 117 A-4, MBB-BK 117 B-1, MBB-BK 117 B-2, and MBB-BK 117 C-1
2021-11-12		Pilatus Aircraft Ltd.	PC-24
2021-11-13		Bell Textron Canada Limited	429
2021-11-14		Leonardo S.p.a.	AW169
2021-11-16	R 79-01-03 R 83-20-03	Piper Aircraft, Inc.	PA-36-285, PA-36-300, and PA-36-375
2021-11-17		Airbus Helicopters Deutschland GmbH	EC135P1, EC135P2, EC135P2+, EC135P3, EC135T1, EC135T2, EC135T2+, and EC135T3
2021-11-19		Bell Textron Canada Limited	505
2021-11-22	R 2016-11-21	Airbus Helicopters Deutschland GmbH	EC135P1, EC135P2, EC135P2+, EC135P3, EC135T1, EC135T2, EC135T2+, and EC135T3
2021-12-03		Leonardo S.p.a.	AW189
2021-12-05		Airbus Helicopters	EC155B1
2021-12-06		Airbus Helicopters	AS-365N2, AS 365 N3, SA-365N, and SA-365N1
2021-12-10		Leonardo S.p.a.	AB139 and AW139

## SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

AD No.	Information	Manufacturer	Applicability
Information Key: E – Emergency; COR – Correction; R – Replaces, A – Affects			
2021-13-07		GE Aviation Czech s.r.o	M601D-11, M601E-11, M601E-11A, M601E-11AS, M601E-11S, and M601F
<b>Biweekly 2021-14</b>			
2021-11-25		Airbus Helicopters	AS350B3 and EC130T2
2021-12-08		Airbus Helicopters Deutschland GmbH	MBB-BK 117 D-2
2021-12-09		Airbus Helicopters Deutschland GmbH	MBB-BK 117 D-2
2021-12-16		Airbus Helicopters Deutschland GmbH	MBB-BK117 C-2 and MBB-BK117 D-2
2021-13-01		Leonardo S.p.a.	AB139 and AW139; AW189
2021-13-15		Bell Textron Canada Limited	429
2021-13-21		Leonardo S.p.a.	AB139, AW139, and AW189
<b>Biweekly 2021-15</b>			
2021-13-03		Safran Helicopter Engines, S.A.	Arriel 2B, 2B1, 2C, 2C1, 2C2, 2S1 and 2S2
2021-13-04		Airbus Helicopters	AS332C, AS332C1, AS332L, and AS332L1
2021-13-05		Airbus Helicopters Deutschland GmbH	EC135P1, EC135P2, EC135P2+, EC135P3, EC135T1, EC135T2, EC135T2+, and EC135T3
2021-13-08		Safran Helicopter Engines, S.A.	Arriel 2C and Arriel 2S1g
2021-13-09		Airbus Helicopters	SA330J
2021-13-14		Airbus Helicopters Deutschland GmbH	BO-105A, BO-105C, BO-105S, and BO-105LS A-3
2021-13-17	R 2017-17-01	Airbus Helicopters	AS332L2 and EC225LP
2021-13-19	R 2014-11-02	Airbus Helicopters	SA-365N, SA-365N1, AS-365N2, and AS 365 N3
2021-14-02		Aircraft Industries a.s.	L-420, L 410 UVP-E20, and L 410 UVP-E20 CARGO
2021-14-05		Airbus Helicopters Deutschland GmbH	MBB-BK 117 A-1, MBB-BK 117 A-3, MBB-BK 117 A-4, MBB-BK 117 B-1, MBB-BK 117 B-2, and MBB-BK 117 C-1
2021-14-07	R 2003-25-01	Airbus Helicopters	AS332C, AS332C1, AS332L, and AS332L1; AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350D, AS355E, AS355F, AS355F1, AS355F2, and AS355N
2021-14-12		True Flight Holdings LLC	AA-1, AA-1A, AA-1B, AA-1C, and AA-5
2021-14-14		Leonardo S.p.a.	AW119 MKII
2021-14-15	R 2002-08-16	Airbus Helicopters, Eurocopter France	SA341G and SA342J; SA-360C
2021-15-51	E	Bell Textron Inc.	204B, 205A, 205A-1, 205B, and 212
2021-15-52	E	Various Manufactures	HH-1K; TH-1F; TH-1L; UH-1A; UH-1B; UH-1E; UH-1F; UH-1H; UH-1I; UH-1L; UH-1P
<b>Biweekly 2021-16</b>			
2021-11-10		Airbus Helicopters	SA-365N, SA-365N1, AS-365N2, and AS 365 N3
2021-13-13		Leonardo S.p.a.	AW189
2021-14-16		Airbus Helicopters	SA-365N, SA-365N1, AS-365N2, AS 365 N3, and SA-366G1
2021-14-18	R 2011-18-52	Leonardo S.p.a.	AB139 and AW139
2021-15-06		Bell Textron Canada Limited	206A, 206B, 206L, 206L-1, 206L-3, 206L-4
2021-15-09		Leonardo S.p.a.	AB139 and AW139
2021-15-14		Various Restricted Category Helicopters	TH-1F, TH-1L, UH-1A, UH-1B, UH-1E, UH-1F, UH-1H, UH-1L, UH-1P
2021-15-52		Various Restricted Category Helicopters	TH-1F, TH-1L, UH-1A, UH-1B, UH-1E, UH-1F, UH-1H, UH-1L, UH-1P
<b>Biweekly 2021-17</b>			
2021-15-12		Pratt & Whitney Canada Corp.	PW210A and PW210S
2021-15-51		Bell Textron Inc.	204B, 205A, 205A-1, 205B, and 212
2021-16-20		PZL Swidnik S.A.	PZL W-3A
2021-17-01		Austro Engine GmbH	E4 and E4P
<b>Biweekly 2021-18</b>			
2021-15-10		GE Aviation Czech s.r.o.	H75-200, H80-100, and H80-200

## SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

AD No.	Information	Manufacturer	Applicability
Information Key: E – Emergency; COR – Correction; R – Replaces, A – Affects			
2021-16-02		Airbus Helicopters	SA330J, AS332C, AS332L, AS332L1, AS332L2, and EC225LP
2021-16-06	R 2020-19-11	Leonardo S.p.a.	A119 and AW119 MKII
2021-16-13		Leonardo S.p.a.	A109S; AW109SP
2021-16-14		BALÓNY KUBÍČEK spol. s r.o.	BB78Z; BB85Z; BB92Z; BB130P
2021-17-10		Leonardo S.p.a.	A109A, A109A II, A109C, A109E, A109K2, A109S, and AW109SP
2021-17-13		PZL Swidnik S.A.	PZL W-3A
2021-17-16		Leonardo S.p.a.	AW189
2021-17-18		Leonardo S.p.a.	A109C, A109K2, A109E, A109S, and AW109SP
2021-18-06	R 2021-11-03	Airbus Helicopters	EC 155B, EC155B1, SA-365N, SA-365N1, AS-365N2, and AS 365 N3
<b>Biweekly 2021-19</b>			
2021-16-04	R 2016-12-51	Leonardo S.p.a.	AB412 and AB412 EP
2021-16-05		Airbus Helicopters	AS332L2 and EC225LP
2021-16-09		Leonardo S.p.a.	AW189
2021-16-10		Airbus Helicopters Deutschland GmbH	EC135P1, EC135P2, EC135P2+, EC135P3, EC135T1, EC135T2, EC135T2+, and EC135T3
2021-16-11		Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350D, AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP
2021-16-12		Bell Textron Canada Limited	505
2021-16-16		Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, and AS350D; AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP
2021-16-17		Airbus Helicopters Deutschland GmbH (AHD)	MBB-BK 117 D-2
2021-17-05	R 2014-04-06	Safran Helicopter Engines, S.A.	Arrius 2B1, 2B1A, 2B2, and 2K1
2021-17-15		Leonardo S.p.a.	AB139 and AW139
2021-18-01		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, and BN-2T-4R
2021-18-07		Leonardo S.p.a.	AB412 and AB412 EP
2021-18-10		Bell Textron Canada Limited	429
2021-19-01		Bell Textron Canada Limited	206, 206A, 206A-1 (OH-58A), 206B, 206B-1, 206L, 206L-1, 206L-3, 206L-4, 222, 222B, 222U, 230, 407, 427, 429, and 430
2021-19-04		Hélicoptères Guimbal	Cabri G2
2021-19-08		Robinson Helicopter Company	R44 and R44 II
<b>Biweekly 2021-20</b>			
2021-20-02		Bell Textron Inc.	205B
<b>Biweekly 2021-21</b>			
2021-18-11		Leonardo S.p.a.	AB139 and AW139
2021-18-12		PZL Swidnik S.A.	PZL W-3A
2021-18-14		DG Flugzeugbau GmbH	DG-808C and DG-1000T
2021-18-15		PZL Swidnik S.A.	PZL W-3A
2021-18-16		Bell Textron Canada Limited	429
2021-19-02		Airbus Helicopters	EC130B4 and EC130T2
2021-19-03		Leonardo S.p.a.	AB139 and AW139
2021-19-05		Leonardo S.p.a.	AB412 and AB412 EP
2021-19-06	R 2007-02-13	UAG Aerospace Services GmbH	Dornier 228-212
2021-19-07		Hélicoptères Guimbal	CABRI G2
2021-19-09	R 2020-24-03	Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350D, AS355E, AS355F, AS355F1, and AS355F2
2021-19-14		AERO Sp. z o.o.	AT-3R100
2021-19-16	R 2021-16-02	Airbus Helicopters	SA330J, AS332C, AS332L, AS332L1, AS332L2, and EC225LP

## SMALL AIRCRAFT, ROTORCRAFT, GLIDERS, BALLOONS, & AIRSHIPS

AD No.	Information	Manufacturer	Applicability
--------	-------------	--------------	---------------

Information Key: E – Emergency; COR – Correction; R – Replaces, A – Affects

### Biweekly 2021-22

2021-17-17		Airbus Helicopters and Airbus Helicopters Deutschland GmbH	AS332C, AS332C1, AS332L, AS332L1, AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350D, AS355E, AS355F, AS355F1, AS355F2, AS355N, AS355NP, AS-365N2, AS 365 N3, EC120B, EC130B4, EC130T2, EC 155B, EC155B1, SA-365N, and SA-365N1; EC135P1, EC135P2, EC135P2+, EC135P3, EC135T1, EC135T2, EC135T2+, EC135T3, MBB-BK117 C-2, and MBB-BK117 D-2
2021-19-17		Sikorsky Aircraft Corporation	S-92A
2021-20-03		Leonardo S.p.a.	AW169
2021-20-05		Leonardo S.p.a.	AW189
2021-20-06		Airbus Helicopters	AS355E, AS355F, AS355F1, and AS355F2
2021-20-10		Leonardo S.p.a.	AB139 and AW139
2021-20-11		Bell Textron Canada Limited	429
2021-20-12		Leonardo S.p.a.	AB139, AW139, AB412, and AB412 EP
2021-20-16	R 2021-04-15	Airbus Helicopters	AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP; AS350B3
2021-20-17	R 2018-23-52	Leonardo S.p.a.	AW169 and AW189
2021-20-20		Pacific Aerospace Limited	750XL

### Biweekly 2021-23

2021-20-21	R 2018-16-10	GE Aviation Czech s.r.o.	H80-200; H85-200
2021-21-01	R 2019-05-06	Airbus Helicopters Deutschland GmbH	EC135P1, EC135P2, EC135P2+, EC135P3, EC135T1, EC135T2, EC135T2+, and EC135T3
2021-21-03		Leonardo S.p.a.	A109A, A109A II, A109C, A109E, A109K2, A109S, AW109SP, A119, and AW119 MKII
2021-21-08		Leonardo S.p.a.	AB139 and AW139
2021-21-10		Pacific Aerospace Limited	750XL
2021-21-11		Pacific Aerospace Limited	750XL
2021-22-07		Various Manufactures	Various Models
2021-22-12		Honda Aircraft Company LLC	HA-420
2021-22-13		Leonardo S.p.a.	AB139 and AW139
2021-22-20		Austro Engine GmbH Engines	E4 and E4P
2021-22-22		Costruzioni Aeronautiche Tecnam S.P.A.	P2006T

### Biweekly 2021-24

2021-05-02R1	A 2021-05-02	Airbus Helicopters	AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350C, and AS350D; AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP; EC130B4 and EC130T2
2021-21-06		Hélicoptères Guimbal	Cabri G2
2021-22-03		Diamond Aircraft Industries GmbH	DA 42, DA 42 NG, and DA 42 M-NG
2021-22-09		Leonardo S.p.a.	AW189
2021-22-10		Leonardo S.p.a.	A109E
2021-24-10	R 2021-09-04	Austro Engine GmbH	E4 and E4P





**FAA**  
**Aviation Safety**

# **AIRWORTHINESS DIRECTIVE**

[www.faa.gov/aircraft/safety/alerts/](http://www.faa.gov/aircraft/safety/alerts/)  
[www.gpoaccess.gov/fr/advanced.html](http://www.gpoaccess.gov/fr/advanced.html)

---

**2021-05-02 Airbus Helicopters:** Docket No. FAA-2020-1131; Project Identifier MCAI-2020-00613-R.

**(a) Effective Date**

This airworthiness directive (AD) becomes effective November 12, 2021.

**(b) Affected AD**

This AD replaces AD 2021-05-02, Amendment 39-21445 (86 FR 13982, March 12, 2021).

**(c) Applicability**

This action applies to all Airbus Helicopters, certificated in any category, as identified in paragraphs (c)(1) through (3) of this AD.

(1) Model AS350B, AS350BA, AS350B1, AS350B2, AS350B3, AS350C, and AS350D helicopters.

(2) Model AS355E, AS355F, AS355F1, AS355F2, AS355N, and AS355NP helicopters.

(3) Model EC130B4 and EC130T2 helicopters.

**(d) Subject**

Joint Aircraft System Component (JASC) Code 6200, Main Rotor System.

**(e) Related Information**

For more information about this AD, contact Hal Jensen, Aerospace Engineer, Operational Safety Branch, Compliance & Airworthiness Division, FAA, 950 L'Enfant Plaza N SW, Washington, DC 20024; phone: (202) 267-9167; email: hal.jensen@faa.gov.

**(f) Material Incorporated by Reference**

None.

Issued on November 4, 2021.

Lance T. Gant,

Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2021-24544 Filed 11-10-21; 8:45 am]



---

**2021-21-06 Hélicoptères Guimbal:** Amendment 39-21766; Docket No. FAA-2021-0620; Project Identifier 2019-SW-074-AD.

**(a) Effective Date**

This airworthiness directive (AD) is effective December 17, 2021.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to Hélicoptères Guimbal (HG) Model Cabri G2 helicopters, certificated in any category, the following aluminum cooling fan (cooling fan) part number (P/N) installed:

- (1) P/N G52-00-000,
- (2) P/N G52-00-001 or P/N G52-04-100, if it is or has previously been mounted on a 12-hole engine pulley P/N G52-10-100 or P/N G52-10-101.

**(d) Subject**

Joint Aircraft Service Component (JASC) Code: 7100, Powerplant System.

**(e) Unsafe Condition**

This AD was prompted by a report of an in-flight engine shutdown due to a crack and subsequent failure of the cooling fan. The FAA is issuing this AD to prevent failure of the cooling fan. This condition, if not addressed, could result in an in-flight engine shut-down and loss of control of the helicopter.

**(f) Compliance**

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

**(g) Required Actions**

(1) For Model Cabri G2 helicopters with cooling fan P/N G52-00-000 installed, within 150 hours time-in-service (TIS) after the effective date of this AD:

(i) Remove the cooling fan from service by following the Required Actions, Cooling Fan Removal, paragraphs (a) through (g), of Guimbal Service Bulletin SB 16-021 E, dated August 27, 2019 (SB 16-021 Rev E), except you are not required to discard any parts.

(ii) Install the improved cooling fan P/N G52-04-101 by following the Required Actions, Cooling Fan Installation, paragraphs (a) through (j), of SB 16-021 Rev E.

(2) For Model Cabri G2 helicopters with a cooling fan P/N G52-00-001 or P/N G52-04-100 that is mounted or was previously mounted on a 12-hole engine pulley P/N G52-10-100 or P/N G52-10-101, and with 1,500 or more total hours TIS, since first installation on a helicopter, within 150 hours TIS after the effective date of this AD:

(i) Remove the cooling fan from service by following the Required Actions, Cooling Fan Removal, paragraphs (a) through (g), of SB 16-021 Rev E, except you are not required to discard any parts, or remove the cooling fan by following the Required Actions, Cooling Fan Removal, paragraphs (a) through (g), of SB 16-021 Rev E and modify the cooling fan by following the Required Actions, Cooling Fan Retrofit, paragraphs (a) through (h) of SB 16-021 Rev E.

(ii) Install the improved cooling fan P/N G52-04-101 by following the Required Actions, Cooling Fan Installation, paragraphs (a) through (j), of SB 16-021 Rev E.

(3) For Model Cabri G2 helicopters with a cooling fan P/N G52-00-001 or P/N G52-04-100 that is mounted or was previously mounted on a 12-hole engine pulley P/N G52-10-100 or P/N G52-10-101 and with 500 total hours TIS but with less than 1,500 total hours TIS, since first installation on a helicopter, within 500 hours TIS after the effective date of this AD, perform the actions required by paragraphs (g)(2)(i) and (ii) of this AD.

(4) For Model Cabri G2 helicopters with a cooling fan P/N G52-00-001 or P/N G52-04-100 that is mounted or was previously mounted on a 12-hole engine pulley P/N G52-10-100 or P/N G52-10-101 and with less than 500 total hours TIS since first installation on a helicopter, within 1,000 hours TIS after the effective date of this AD, perform the actions required by paragraphs (g)(2)(i) and (ii) of this AD.

(5) As of the effective date of this AD, do not install any cooling fan listed in paragraph (c) of this AD on any helicopter.

#### **(h) Credit for Previous Actions**

This paragraph provides credit for the actions specified in paragraph (g) of this AD, if those actions were performed before the effective date of this AD using Guimbal Service Bulletin SB 16-021 D, dated May 2019.

#### **(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 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 International Validation Branch, send it to the attention of the person identified in paragraph (j)(1) of this AD. Information may be emailed to: 9-AVS-AIR-730-AMOC@faa.gov.

(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**

(1) For more information about this AD, contact Andrea Jimenez, Aerospace Engineer, COS Program Management Section, Operational Safety Branch, Compliance & Airworthiness Division, FAA, 1600 Stewart Ave., Suite 410, Westbury, NY 11590; telephone (516) 228-7330; email andrea.jimenez@faa.gov.

(2) Guimbal Service Bulletin SB 16-021 D, dated May 20, 2019, which is not incorporated by reference, contains additional information about the subject of this AD. This service information is available at the contact information specified in paragraphs (k)(3) and (4) of this AD.

(3) The subject of this AD is addressed in European Union Aviation Safety Agency (EASA) AD 2019-0187, dated July 31, 2019. You may view the EASA AD at <https://www.regulations.gov> in Docket No. FAA-2021-0620.

**(k) 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) Guimbal Service Bulletin SB 16-021 E, dated August 27, 2019.

(ii) [Reserved]

(3) For service information identified in this AD, contact Hélicoptères Guimbal, Basile Ginel, 1070, rue du Lieutenant Parayre, Aérodrome d'Aix-en-Provence, 13290 Les Milles, France; telephone 33-04-42-39-10-88; email [basile.ginel@guimbal.com](mailto:basile.ginel@guimbal.com); web <https://www.guimbal.com>.

(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 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: [fr.inspection@nara.gov](mailto:fr.inspection@nara.gov), or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on November 4, 2021.

Ross Landes,

Deputy Director for Regulatory Operations, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2021-24541 Filed 11-10-21; 8:45 am]



---

**2021-22-03 Diamond Aircraft Industries GmbH:** Amendment 39-21776; Docket No. FAA-2021-0602; Project Identifier 2019-CE-022-AD.

**(a) Effective Date**

This airworthiness directive (AD) is effective December 21, 2021.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to Diamond Aircraft Industries GmbH Model DA 42, DA 42 NG, and DA 42 M-NG airplanes, all serial numbers, certificated in any category.

**(d) Subject**

Joint Aircraft System Component (JASC) Code 3221, Nose/Tail Landing Gear Attach Section.

**(e) Unsafe Condition**

This AD was prompted by mandatory continuing airworthiness information (MCAI) originated by an aviation authority of another country to identify and address an unsafe condition on an aviation product. The MCAI describes the unsafe condition as failure of the nose landing gear (NLG) actuator attachment lever and detachment from the NLG leg. The FAA is issuing this AD to detect and correct cracks in the NLG actuator attachment lever, which could result in restricted rudder travel with the NLG retracted and reduced airplane control.

**(f) Compliance**

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

**(g) Definition of Airworthy Part**

For the purposes of this AD, an airworthy part is an NLG leg assembly that has accumulated 1,800 or fewer hours time-in-service (TIS) since first installation on an airplane or that has passed the inspection (no cracks and no damage) required by paragraph (h)(1) of this AD.

**(h) Required Actions**

(1) Inspect the NLG actuator attachment lever for cracks and damage in the areas shown in paragraph 2 of the Instructions in Diamond Aircraft Work Instruction WI-MSB 42-136 and WI-MSB 42NG-078, Revision 1, dated January 24, 2019 (issued as one document) attached to Diamond

Aircraft Mandatory Service Bulletin MSB 42-136/1 and MSB 42NG-078, dated January 24, 2019 (issued as one document) at the following applicable compliance times in paragraph (h)(1)(i) or (ii) of this AD:

(i) For airplanes with an NLG assembly that has accumulated less than 1,800 hours TIS as of the effective date of this AD: Within 200 hours TIS after the NLG assembly accumulates 1,800 hours TIS or within 12 months after the NLG assembly accumulates 1,800 hours TIS, whichever occurs first, and thereafter at intervals not to exceed 200 hours TIS; or

(ii) For airplanes with an NLG assembly that has accumulated 1,800 or more hours TIS as of the effective date of this AD: Within 210 hours TIS after the effective date of this AD or within 12 months after the effective date of this AD, whichever occurs first, and thereafter at intervals not to exceed 200 hours TIS.

(2) After each inspection required by paragraph (h)(1) of this AD, if there is a crack or damage on the NLG actuator attachment lever, before further flight, replace the NLG leg assembly with an airworthy part as defined by this AD.

(3) As of the effective date of this AD, do not install an NLG leg assembly on any airplane unless it is an airworthy part as defined by this AD.

#### **(i) Alternative Methods of Compliance (AMOCs)**

(1) The Manager, International Validation Branch, 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 certification office, send it to the attention of the person identified in paragraph (j)(1) of this AD or email: 9-AVS-AIR-730-AMOC@faa.gov.

(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**

(1) For more information about this AD, contact Penelope Trease, Aviation Safety Engineer, General Aviation & Rotorcraft Section, International Validation Branch, FAA, 26805 E 68th Avenue, Denver, CO 80249; phone: (303) 342-1094; email: penelope.trease@faa.gov.

(2) Refer to European Union Aviation Safety Agency (EASA) AD 2019-0066, dated March 27, 2019, for more information. You may examine the EASA AD in the AD docket at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2021-0602.

#### **(k) 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) Diamond Aircraft Mandatory Service Bulletin MSB 42-136/1 and MSB 42NG-078, dated January 24, 2019 (issued as one document) published with Diamond Aircraft Work Instruction WI-MSB 42-136 and WI-MSB 42NG-078, Revision 1, dated January 24, 2019 (issued as one document) attached.

(ii) [Reserved]

(3) For service information identified in this AD, contact Diamond Aircraft Industries GmbH, N.A. Otto-Straße 5, A-2700 Wiener Neustadt, Austria; phone: +43 2622 26700; fax: +43 2622 26780; email: [office@diamond-air.at](mailto:office@diamond-air.at); website: <https://www.diamondaircraft.com>.

(4) You may view this service information at FAA, Airworthiness Products Section, Operational Safety Branch, 901 Locust, Kansas City, MO 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, email: [fr.inspection@nara.gov](mailto:fr.inspection@nara.gov), or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on October 13, 2021.

Gaetano A. Sciortino,  
Deputy Director for Strategic Initiatives, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2021-25011 Filed 11-15-21; 8:45 am]



**2021-22-09 Leonardo S.p.a.:** Amendment 39-21782; Docket No. FAA-2021-0687; Project Identifier 2019-SW-029-AD.

**(a) Effective Date**

This airworthiness directive (AD) is effective December 27, 2021.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to Leonardo S.p.a. Model AW189 helicopters, certificated in any category, as identified in European Union Aviation Safety Agency (EASA) AD 2019-0039, dated February 20, 2019 (EASA AD 2019-0039).

**(d) Subject**

Joint Aircraft Service Component (JASC) Code: 7170, Engine Drains.

**(e) Unsafe Condition**

This AD was prompted by a report that a number of fairleads that support the engine combustion chamber D1 drain hose showed evidence of heat damage. The FAA is issuing this AD to address such heat damage, which in a case where the right-hand engine is operated in the one engine inoperative (OEI) rating, the D1 drain pipe could transfer so much heat to the nearby fuel system vent pipe that its internal surface temperature could exceed the auto-ignition temperature for fuel. The unsafe condition, if not addressed, could result in undetected fire ignition in the fuel tank bay with consequent loss 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, EASA AD 2019-0039.

**(h) Exceptions to EASA AD 2019-0039**

(1) Where EASA AD 2019-0039 requires compliance in terms of flight hours, this AD requires using hours time-in-service.



(2) Where EASA AD 2019-0039 refers to its effective date, this AD requires using the effective date of this AD.

(3) Where the service information required by EASA AD 2019-0039 specifies discarding parts, this AD requires removing those parts from service.

(4) This AD does not require the “Remarks” section of EASA AD 2019-0039.

#### **(i) No Reporting Requirement**

Although the service information referenced in EASA AD 2019-0039 specifies to submit certain information to the manufacturer, this AD does not include that requirement.

#### **(j) Special Flight Permit**

Special flight permits may be issued in accordance with 14 CFR 21.197 and 21.199 to operate the airplane to a location where the helicopter can be modified, provided the OEI rating is prohibited on the right-hand engine.

#### **(k) 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 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 International Validation Branch, send it to the attention of the person identified in paragraph (l) of this AD. Information may be emailed to: 9-AVS-AIR-730-AMOC@faa.gov.

(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.

#### **(l) Related Information**

For more information about this AD, contact Jacob Fitch, Aerospace Engineer, COS Program Management Section, Operational Safety Branch, Compliance & Airworthiness Division, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone (817) 222-4130; email jacob.fitch@faa.gov.

#### **(m) Material Incorporated by Reference**

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

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

(i) European Union Aviation Safety Agency (EASA) AD 2019-0039, dated February 20, 2019.

(ii) [Reserved]

(3) For EASA AD 2019-0039, contact the EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 8999 000; email ADs@easa.europa.eu; internet www.easa.europa.eu. You may find this EASA AD on the EASA website at <https://ad.easa.europa.eu>.

(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. This material may be found in the AD docket on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2021-0687.

(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 [fedreg.legal@nara.gov](mailto:fedreg.legal@nara.gov), or go to <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on October 14, 2021.

Lance T. Gant,

Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2021-25213 Filed 11-18-21; 8:45 am]



**2021-22-10 Leonardo S.p.a.:** Amendment 39-21783; Docket No. FAA-2021-0695; Project Identifier MCAI-2021-00096-R.

**(a) Effective Date**

This airworthiness directive (AD) is effective December 27, 2021.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to Leonardo S.p.a. Model A109E helicopters, certificated in any category, with an affected part as identified in European Union Aviation Safety Agency (EASA) AD 2021-0031, dated January 22, 2021 (EASA AD 2021-0031) installed.

**(d) Subject**

Joint Aircraft Service Component (JASC) Code: 6520, Tail Rotor Gearbox.

**(e) Unsafe Condition**

This AD was prompted by reports that certain tail rotor gearbox assemblies were installed on Model A109E helicopters and those parts are not approved for installation on that helicopter model. Because tail rotor gearbox assembly part number (P/N) 109-0440-01-115 is not part of the type design for Model A109E helicopters, there are no overhaul or life limits included in the applicable maintenance manuals. The FAA is issuing this AD to address installation of tail rotor gearbox assembly P/N 109-0440-01-115 on Model A109E helicopters that do not have overhaul or life limits for that part. If a tail rotor gearbox is not properly maintained it could fail, resulting in reduced 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, EASA AD 2021-0031.

**(h) Exceptions to EASA AD 2021-0031**

(1) Where EASA AD 2021-0031 requires compliance in terms of flight hours, this AD requires using hours time-in-service.

(2) Where EASA AD 2021-0031 refers to its effective date, this AD requires using the effective date of this AD.

(3) This AD does not mandate compliance with the “Remarks” section of EASA AD 2021-0031.

**(i) No Reporting Requirement**

Although the service information referenced in EASA AD 2021-0031 specifies to submit certain information to the manufacturer, this AD does not include that requirement.

**(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 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 International Validation Branch, send it to the attention of the person identified in paragraph (k) of this AD. Information may be emailed to: 9-AVS-AIR-730-AMOC@faa.gov.

(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 Andrea Jimenez, Aerospace Engineer, COS Program Management Section, Operational Safety Branch, Compliance & Airworthiness Division, FAA, 1600 Stewart Ave., Suite 410, Westbury, NY 11590; telephone (516) 228-7330; email andrea.jimenez@faa.gov.

**(l) Material Incorporated by Reference**

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

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

(i) European Union Aviation Safety Agency (EASA) AD 2021-0031, dated January 22, 2021.

(ii) [Reserved]

(3) For EASA AD 2021-0031, contact the EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 8999 000; email ADs@easa.europa.eu; Internet www.easa.europa.eu. You may find this EASA AD on the EASA website at <https://ad.easa.europa.eu>.

(4) You may view this material 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. This material may be found in the AD docket on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2021-0695.

(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 [fr.inspection@nara.gov](mailto:fr.inspection@nara.gov), or go to <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on October 14, 2021.

Lance T. Gant,

Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2021-25215 Filed 11-18-21; 8:45 am]



**2021-24-10 Austro Engine GmbH:** Amendment 39-21831; Docket No. FAA-2021-0781; Project Identifier AD-2021-00775-E.

**(a) Effective Date**

This airworthiness directive (AD) is effective December 27, 2021.

**(b) Affected ADs**

This AD replaces AD 2021-09-04, Amendment 39-21517 (86 FR 21637, April 23, 2021).

**(c) Applicability**

This AD applies to all Austro Engine GmbH E4 and E4P model diesel piston engines.

**(d) Subject**

Joint Aircraft System Component (JASC) Code 8550, Reciprocating Engine Oil System.

**(e) Unsafe Condition**

This AD was prompted by reports of an oil pump blockage on the E4 model diesel piston engines. The FAA is issuing this AD to prevent failure of the engine lubrication system. The unsafe condition, if not addressed, could result in failure of the engine, in-flight shutdown, and loss of the airplane.

**(f) Compliance**

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

**(g) Required Actions**

For Austro Engine GmbH E4 and E4P model diesel piston engines having an oil pump, part number (P/N) E4A-50-000-BHY, with a serial number (S/N) listed in paragraph 1.2., Engines Affected, of Austro Engine GmbH Mandatory Service Bulletin No. MSB-E4-030/4, Revision No. 4, dated March 30, 2021 (the MSB), within the compliance time specified in Table 1 to paragraph (g) of this AD or before further flight, whichever occurs later:

(1) Remove the oil pump, P/N E4A-50-000-BHY, from service and replace with a part eligible for installation using the Accomplishment/Instructions, paragraph 2.2.1 or paragraph 2.2.2, of the MSB, as applicable.

(2) Replace the oil filter and engine oil using the Accomplishment/Instructions, paragraph 2.2.1 or paragraph 2.2.2, of the MSB, as applicable.

**Table 1 to Paragraph (g) – Replacement of the Oil Pump, Oil Filter, and Engine Oil**

<b>Engine Group</b>	<b>Engine Flight Hours (FHs) Since New as of May 10, 2021 (the effective date of AD 2021-09-04)</b>	<b>Compliance Time (after May 10, 2021, the effective date of AD 2021-09-04)</b>
Group 1 engines and Group 2 engines	10 FHs or less	Within 30 days or before accumulating 10 FHs, or during the next scheduled maintenance, whichever occurs first
Group 1 engines	More than 10 FHs, but less than 50 FHs	Within 3 months or before accumulating 70 FHs since new, or during the next scheduled maintenance, whichever occurs first
Group 1 engines	50 FHs or more	Within 3 months or 20 FHs, or during the next scheduled maintenance, whichever occurs first
Group 2 engines	More than 10 FHs	Within 3 months or 100 FHs, or during the next scheduled maintenance, whichever occurs first

**(h) No Reporting Requirements**

The reporting requirements in the Accomplishment/Instructions, paragraph 2.2., of the MSB, are not required by this AD.

**(i) Installation Prohibition**

After the effective date of this AD, do not install onto any engine an oil pump, P/N E4A-50-000-BHY, with an S/N listed in paragraph 1.2., Engines Affected, of the MSB.

**(j) Definitions**

For the purpose of this AD:

(1) Group 1 engines are E4 model diesel piston engines in configuration “-A” that are installed on single-engine airplanes.

(2) Group 2 engines are E4 model diesel piston engines in configuration “-B” or “-C” and E4P model diesel piston engines that are installed on twin-engine airplanes.

(3) A “part eligible for installation” is an oil pump with a P/N and S/N that is not listed in paragraph 1.2., Engines Affected, of the MSB.

**(k) Credit for Previous Actions**

You may take credit for replacing the oil pump, oil filter, and engine oil required by paragraph (g) of this AD if you performed these replacements before the effective date of this AD using the

Accomplishment/Instructions, paragraph 2.2., of Austro Engine GmbH MSB No. MSB-E4-030, Original Issue, dated February 18, 2021; Revision No. 1, dated February 23, 2021; Revision No. 2, dated March 3, 2021; or Revision No. 3, dated March 18, 2021.

**(l) Alternative Methods of Compliance (AMOCs)**

(1) The Manager, ECO Branch, 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 certification office, send it to the attention of the person identified in paragraph (m) of this AD. Information may be emailed to: ANE-AD-AMOC@faa.gov.

(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.

**(m) Related Information**

For more information about this AD, contact Wego Wang, Aviation Safety Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: (781) 238-7134; fax: (781) 238-7199; email: wego.wang@faa.gov.

**(n) 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 May 10, 2021 (86 FR 21637, April 23, 2021).

(i) Austro Engine GmbH Mandatory Service Bulletin No. MSB-E4-030/4, Revision No. 4, dated March 30, 2021.

(ii) [Reserved]

(4) For service information identified in this AD, contact Austro Engine GmbH, Rudolf-Diesel-Strasse 11, 2700 Weiner Neustadt, Austria; phone: +43 2622 23000; website: www.austroengine.at.

(5) You may view this service information at 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.

(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: fr.inspection@nara.gov, or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on November 15, 2021.

Lance T. Gant,

Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2021-25259 Filed 11-18-21; 8:45 am]