

FEDERAL AVIATION ADMINISTRATION AIRWORTHINESS DIRECTIVES

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

BIWEEKLY 2023-13

06/05/2023 - 06/18/2023



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

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SMALL AIRCRAFT

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

Biweekly 2023-01

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

Biweekly 2023-02

2022-27-09		Airbus Helicopters	EC130T2
2023-01-02		Leonardo S.p.a.	A109,A109A,A109A II,A109C,A109E,A109K2,A109S,AW109SP

Biweekly 2023-03

2023-01-07		GE Aviation Czech s.r.o.	H75-100,H75-200,H80,H80-100,H80-200,H85-100,H85-200
2023-01-11		Safran Helicopter Engines S.A.	Makila 1A,Makila 1A1
2023-01-12		Safran Helicopter Engines S.A.	Arriel 1C,Arriel 1C1,Arriel 1C2
2023-02-03	R 2022-01-09	Stemme AG	Stemme S 10-VT,Stemme S 12
2023-02-04		Mooney International Corporation	M20C,M20D,M20E,M20F,M20G

Biweekly 2023-04

2023-01-04		Airbus Helicopters	AS350B,AS350BA,AS350B1,AS350B2,AS350B3,AS350D,AS355E,AS355F,AS355F1,AS355F2,AS355N,AS355NP
2023-01-07		GE Aviation Czech s.r.o.	H75-100,H75-200,H80,H80-100,H80-200,H85-100,H85-200
2023-01-08		Continental Aerospace Technologies GmbH	TAE 125-02-99,TAE 125-02-114
2023-01-10		GE Aviation Czech s.r.o.	M601E-11,M601E-11A,M601E-11AS,M601E-11S,M601F
2023-02-12		Continental Aerospace Technologies Inc.	GTSIO-520-C,GTSIO-520-D,GTSIO-520-E,GTSIO-520-F,GTSIO-520-H,GTSIO-520-K,GTSIO-520-L,GTSIO-520-M,GTSIO-520-N,IO-470-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-LO,IO-470-M,IO-470-N,IO-470-P,IO-470-R,IO-470-S,IO-470-T,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-M,IO-520-MB,IO-520-N,IO-520-NB,IO-520-P,IO-550-A,IO-550-B,IO-550-C,IO-550-D,IO-550-E,IO-550-F,IO-550-G,IO-550-L,IO-550-N,IO-550-P,IO-550-R,IOF-550-B,IOF-550-C,IOF-550-D,IOF-550-E,IOF-550-F,IOF-550-L,IOF-550-P,IOF-550-R,LIO-470-A,LIO-520-P,LTSIO-520-AE,O-470-A,O-470-E,O-470-G,O-470-G-CI,O-470-H,O-470-J,O-470-K,O-470-K-CI,O-470-L,O-470-L-CI,O-470-M,O-470-M-CI,O-470-N,O-470-P,O-470-R,O-470-S,O-470-T,O-470-U,TSIO-470-B,TSIO-470-C,

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			TSIO-470-D,TSIO-520-A,TSIO-520-AE,TSIO-520-AF,TSIO-520-B,TSIO-520-BB,TSIO-520-BE,TSIO-520-C,TSIO-520-CE,TSIO-520-D,TSIO-520-DB,TSIO-520-E,TSIO-520-EB,TSIO-520-G,TSIO-520-H,TSIO-520-J,TSIO-520-JB,TSIO-520-K,TSIO-520-KB,TSIO-520-L,TSIO-520-LB,TSIO-520-M,TSIO-520-N,TSIO-520-NB,TSIO-520-P,TSIO-520-R,TSIO-520-T,TSIO-520-U,TSIO-520-UB,TSIO-520-VB,TSIO-520-WB,TSIO-550-A,TSIO-550-B,TSIO-550-C,TSIO-550-E,TSIO-550-G,TSIO-550-K,TSIOF-550-D,TSIOF-550-J,TSIOF-550-K,TSIOL-550-A,TSIOL-550-C
2023-03-01		Airbus Helicopters Deutschland GmbH	BO-105A,BO-105C,BO-105S,BO-105LS A-1,BO-105LS A-3,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,MBB-BK 117 C-1,MBB-BK 117 C-2,MBB-BK 117 D-2
2023-03-10		Schempp-Hirth Flugzeugbau GmbH	Duo-Discus,Duo Discus T
Biweekly 2023-05			
2023-01-07		GE Aviation Czech s.r.o.	H75-100,H75-200,H80,H80-100,H80-200,H85-100,H85-200
2023-02-17		Textron Aviation Inc.	210N,210R,P210N,P210R,T210N,T210R,177,177A,177B,177RG,F177RG
2023-03-02		Pratt & Whitney Canada Corp.	PT6E-67XP
2023-03-03		Leonardo S.p.a.	AB139,AW139
2023-03-12	R 2004-04-09	Pratt & Whitney Canada Corp.	JT15D-1,JT15D-1A,JT15D-1B
2023-03-13		Airbus Helicopters	AS355E,AS355F,AS355F1,AS355F2,AS355N
2023-04-08		Continental Aerospace Technologies, Inc. (Continental®)	GTSIO-520-C,GTSIO-520-D,GTSIO-520-H,GTSIO-520-K,GTSIO-520-L,GTSIO-520-M,GTSIO-520-N,GTSIO-520-S,IO-360-A,IO-360-AB,IO-360-AF,IO-360-C,IO-360-CB,IO-360-D,IO-360-DB,IO-360-E,IO-360-ES,IO-360-G,IO-360-GB,IO-360-H,IO-360-HB,IO-360-J,IO-360-JB,IO-360-K,IO-360-KB,IO-470-D,IO-470-E,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-T,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-M,IO-520-MB,IO-550-A,IO-550-B,IO-550-C,IO-550-D,IO-550-E,IO-550-F,IO-550-G,IO-550-L,IO-550-N,IO-550-P,IO-550-R,LTSIO-360-E,LTSIO-360-EB,LTSIO-360-KB,LTSIO-360-RB,LTSIO-520-AE,O-470-A,O-470-B,O-470-E,O-470-G,O-470-H,O-470-J,O-470-K,O-470-L,O-470-M,O-470-N,O-470-R,O-470-S,O-470-T,O-470-U,TSIO-360-A,TSIO-360-AB,TSIO-360-B,TSIO-360-BB,TSIO-360-C,TSIO-360-CB,TSIO-360-D,TSIO-360-DB,

SMALL AIRCRAFT

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TSIO-360-E,TSIO-360-EB,TSIO-360-G,TSIO-360-GB,TSIO-360-H,TSIO-360-HB,TSIO-360-JB,TSIO-360-KB,TSIO-360-LB,TSIO-360-MB,TSIO-360-RB,TSIO-360-SB,TSIO-520-A,TSIO-520-AE,TSIO-520-AF,TSIO-520-B,TSIO-520-BB,TSIO-520-BE,TSIO-520-C,TSIO-520-CE,TSIO-520-D,TSIO-520-DB,TSIO-520-E,TSIO-520-EB,TSIO-520-G,TSIO-520-H,TSIO-520-J,TSIO-520-JB,TSIO-520-K,TSIO-520-KB,TSIO-520-L,TSIO-520-LB,TSIO-520-M,TSIO-520-NB,TSIO-520-P,TSIO-520-R,TSIO-520-T,TSIO-520-UB,TSIO-520-VB,TSIO-520-WB,TSIO-550-A,TSIO-550-B,TSIO-550-C,TSIO-550-E,TSIO-550-G,TSIO-550-K,TSIO-550-N,TSIOF-550-K,TSIOL-550-A,TSIOL-550-B,TSIOL-550-C

Biweekly 2023-06

2023-03-14		Schempp-Hirth Flugzeugbau GmbH	Duo-Discus,Duo Discus T
2023-03-22	R 2015-09-04 R1	DG Flugzeugbau GmbH,Schempp-Hirth Flugzeugbau GmbH	DG-1000T,Duo Discus T
2023-04-20		Cirrus Design Corporation	SF50

Biweekly 2023-07

2023-05-03	R 2022-14-14	Alexander Schleicher GmbH & Co. Segelflugzeugbau	ASW -15,ASW-15B
2023-05-09		Airbus Helicopters Deutschland GmbH	EC135P3,EC135T3,MBB-BK 117 D-2,MBB-BK 117 D-3
2023-05-16	R 2023-04-08	Continental Aerospace Technologies Inc.	GTSIO-520-C,GTSIO-520-D,GTSIO-520-H,GTSIO-520-K,GTSIO-520-L,GTSIO-520-M,GTSIO-520-N,GTSIO-520-S,IO-360-A,IO-360-AB,IO-360-AF,IO-360-C,IO-360-CB,IO-360-D,IO-360-DB,IO-360-E,IO-360-ES,IO-360-G,IO-360-GB,IO-360-H,IO-360-HB,IO-360-J,IO-360-JB,IO-360-K,IO-360-KB,IO-470-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-LO,IO-470-M,IO-470-N,IO-470-P,IO-470-R,IO-470-S,IO-470-T,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-M,IO-520-MB,IO-550-A,IO-550-B,IO-550-C,IO-550-D,IO-550-E,IO-550-F,IO-550-G,IO-550-L,IO-550-N,IO-550-P,IO-550-R,LTSIO-360-E,LTSIO-360-EB,LTSIO-360-KB,LTSIO-360-RB,LTSIO-520-AE,O-470-A,O-470-B,O-470-E,O-470-G,O-470-H,O-470-J,O-470-K,O-470-L,O-470-M,O-470-N,O-470-R,O-470-S,O-470-T,O-470-U,TSIO-360-A,TSIO-360-AB,TSIO-360-B,TSIO-360-BB,TSIO-360-C,TSIO-360-CB,TSIO-360-D,TSIO-360-DB,TSIO-360-E,TSIO-360-EB,TSIO-360-F,TSIO-360-FB,TSIO-360-G,TSIO-360-

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GB,TSIO-360-H,TSIO-360-HB,TSIO-360-JB,TSIO-360-KB,TSIO-360-LB,TSIO-360-MB,TSIO-360-RB,TSIO-360-SB,TSIO-520-A,TSIO-520-AE,TSIO-520-AF,TSIO-520-B,TSIO-520-BB,TSIO-520-BE,TSIO-520-C,TSIO-520-CE,TSIO-520-D,TSIO-520-DB,TSIO-520-E,TSIO-520-EB,TSIO-520-G,TSIO-520-H,TSIO-520-J,TSIO-520-JB,TSIO-520-K,TSIO-520-KB,TSIO-520-L,TSIO-520-LB,TSIO-520-M,TSIO-520-NB,TSIO-520-P,TSIO-520-R,TSIO-520-T,TSIO-520-UB,TSIO-520-VB,TSIO-520-WB,TSIO-550-A,TSIO-550-B,TSIO-550-C,TSIO-550-E,TSIO-550-G,TSIO-550-K,TSIO-550-N,TSIOF-550-K,TSIOL-550-A,TSIOL-550-B,TSIOL-550-C

2023-06-11

Viking Air Limited

DHC-2 Mk.I

Biweekly 2023-08

2023-07-51

E

Leonardo S.p.a.

AB139,AW139

Biweekly 2023-09

2023-06-05

Bell Textron Canada Limited

206A,206A-1 (OH-58A),206B,206B-

2023-07-08

Pilatus Aircraft Ltd.

1,206L,206L-1,206L-3,206L-4
PC-12/47E

Biweekly 2023-10

2023-06-14

Pratt & Whitney Canada Corp.

PW308A,PW308C

2023-07-03

Leonardo S.p.a.

AB412,AB412 EP

Biweekly 2023-11

2023-08-06

A 2020-20-08

Airbus Helicopters

AS332C,AS332C1,AS332L,AS332L1,AS332
L2,EC225LP

2023-08-07

Allied Ag Cat Productions Inc.

G-164A,G-164B

Biweekly 2023-12

2023-09-07

R 2022-02-01

Sikorsky Aircraft Corporation

S-92A

2023-09-12

Pilatus Aircraft Ltd.

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

2023-10-02

R 2021-23-12

The Boeing Company,Airbus SAS,Bombardier Inc.,Embraer S.A.,Gulfstream Aerospace Corporation,Gulfstream Aerospace LP,Textron Aviation Inc.,Pilatus Aircraft Limited,Fokker Services B.V.,Saab AB Support and Services,De Havilland Aircraft of Canada Limited,Airbus Canada Limited Partnership,ATR - GIE Avions de Transport Régional,MHI RJ Aviation ULC,BAE Systems (Operations) Limited,Lockheed Martin Corporation,Lockheed Martin Aeronautics Company,Viking Air Limited,Dassault Aviation

18,23,35,36,50,58,60,65,70,76,77,95,99,100,111,120,140,150,152,170,172,175,177,180,182,185,188,190,195,200,206,207,208,210,300,314,320,321,335,336,337,340,382,390,400,401,402,404,406,408,411,414,421,425,441,500,501,510,525,550,551,552,560,650,680,700,750,1900,2000,4000,1049-54,1049B-55 (Navy R7V-1),1049C-55,1049D-55,1049E-55,1049F-55 (USAF C-121C),1049H-82,1049G-82,1125 Westwind Astra,1329-23A,1329-23E,1329-25,1329-23D,150A,150B,150C,150D,150E,150F,150G,150H,150J,150K,150M,150L,

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170A,170B,172A,172B,172C,172D,172E,172G,172F (USAF T-41A),172H (USAF T-41A),172I,172K,172L,172M,172N,172P,172Q,172R,172RG,172S,175A,175B,175C,177A,177B,180A,180B,180C,180D,180F,180E,180G,180H,180J,180K,182A,182B,182C,182D,182E,182F,182G,182H,182J,182K,182L,182M,182N,182P,182Q,182R,182S,182T,185A,185B,185C,185D,185E,188A,188B,188C,18D,18S (Army C-45C),1900C,1900C (C-12J),1900D,195B,19A,200C,200CT,200T,206H,207A,210-5 (205),210-5A (205A),210A,210B,210C,210D,210E,210F,210G,210H,210J,210K,210L,210M,210N,210R,300LW,320-1,320A,320B,320C,320D,320E,320F,337A,337B,337C,337D,337E,337F,337G,337H,340A,35-33,35-A33,35-B33,35-C33,35-C33A,35R,382B,382E,382G,382J,382F,3N,3NM,400A,400T,401A,401B,402A,402B,402C,411A,414A,421A,421B,421C,49-46,525A,525B,525C,560XL,56TC,58A,58P,58PA,58TCA,58TC,649-79,649A-79,65-80,65-88,65-90,65-A80,65-A80-8800,65-A90,65-A90-1,65-A90-2,65-A90-3,65-A90-4,65-B80,680A,707-100 Long Body,707-100B Long Body,707-200,707-300 Series,707-300C Series,707-400 Series,707-100B Short Body,707-300B Series,717-200,720 Series,727 Series,727-100C Series,727-200 Series,727-200F Series,727-100 Series,727C Series,737-100 Series,737-200 Series,737-200C Series,737-300 Series,737-400 Series,737-500 Series,737-600 Series,737-700 Series,737-700C Series,737-800 Series,737-900 Series,737-900ER Series,737-8200,737-8,737-9,747-100 Series,747-100B Series,747-100B SUD Series,747-200B Series,747-200C Series,747-200F Series,747-300 Series,747-400 Series,747-400D Series,747-400F Series,747SP Series,747SR Series,747-8 Series,747-8F Series,749-79,749A-79,75 (Army PT-13),757-200 Series,757-200CB Series,757-200PF Series,757-300 Series,767-2C Series,767-200 Series,767-300 Series,767-300F Series,767-400ER Series,777-200 Series,777-200LR Series,777-300 Series,777-300ER Series,777F Series,787-8,787-9,787-10,80-A,95-55,95-A55,95-B55,95-B55A,95-B55B,95-C55,95-C55A,99A,A100,A100-1 (U-21J),A100A,A100C,A150K,A150L,A150M,A152,A185E,A185F,A188,A188B,A188A,A18A,A18D,A200 (C-12A),A200 (C-

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12C),A200C (UC-12B),A200CT (C-12D),A200CT (C-12F),A200CT (FWC-12D),A200CT (RC-12D),A200CT (RC-12G),A200CT (RC-12H),A200CT (RC-12K),A200CT (RC-12P),A200CT (RC-12Q),A23,A23-19,A23A,A23-24,A24,A24R,A300 B2-1A,A300 B2-1C,A300 B2-203,A300 B2K-3C,A300 B4-2C,A300 B4-103,A300 B4-203,A300 B4-601,A300 B4-603,A300 B4-605R,A300 B4-620,A300 B4-622,A300 B4-622R,A300 C4-605R Variant F,A300 F4-605R,A300 F4-622R,A310-203,A310-204,A310-221,A310-222,A310-304,A310-322,A310-324,A310-325,A-314,A318-111,A318-112,A318-121,A318-122,A319-111,A319-112,A319-113,A319-114,A319-115,A319-131,A319-132,A319-133,A319-151N,A319-153N,A319-171N,A320-211,A320-212,A320-214,A320-216,A320-231,A320-232,A320-233,A320-251N,A320-252N,A320-253N,A320-271N,A320-272N,A320-273N,A321-111,A321-112,A321-131,A321-211,A321-212,A321-213,A321-231,A321-232,A321-251N,A321-251NX,A321-252N,A321-252NX,A321-253N,A321-253NX,A321-271N,A321-271NX,A321-272N,A321-272NX,A330-201,A330-202,A330-203,A330-223,A330-223F,A330-243,A330-243F,A330-301,A330-302,A330-303,A330-321,A330-322,A330-323,A330-341,A330-342,A330-343,A330-841,A330-941,A340-211,A340-212,A340-213,A340-311,A340-312,A340-313,A340-541,A340-642,A35,A350-941,A350-1041,A36,A36TC,A380-841,A380-842,A380-861,A45 (Military T-34A; B-45),A56TC,A65,A65-8200,A75 (Army PT-13A; -13B; -13C),A75J1 (Army PT-18),A75L3,A75L300,A75N1 (Army PT-17; -17A; Navy N2S-1; -4),A99,A99A,Army AT-11,Astra SPX,AT-6 (SNJ-2),AT-6A (SNJ-3),AT-6B,AT-6C (SNJ-4),AT-6D (SNJ-5),AT-6F (SNJ-6),ATR42-200,ATR42-300,ATR42-320,ATR42-500,ATR72-101,ATR72-102,ATR72-201,ATR72-202,ATR72-211,ATR72-212,ATR72-212A,Avro 146-RJ70A,Avro 146-RJ85A,Avro 146-RJ100A,B100,B19,B200,B200C,B200C (C-12F),B200C (C-12R),B200C (UC-12F),B200C (UC-12M),B200CGT,B200CT,B200GT,B200T,B23,B24R,B300,B300C,B300C (MC-12W),B300C (UC-12W),B35,B36TC,B50,B60,B75 (Navy N2S-5),B95,B95A,B99,BAC 1-11 400 Series,BAC 1-11 200 Series,BAe 146-100A,BAe 146-200A,BAe 146-300A,BAe.125 Series 800A,BAe.125 Series 800A (C-29A),BAe.125 Series 800A

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(U-125),BAe.125 Series 800B,BAe.125 Series 1000A,BAe.125 Series 1000B,BC-1A,BD-500-1A10,BD-500-1A11,BD-700-1A10,BD-700-1A11,BD-700-2A12,Beagle B.121 Series 1,Beagle B.121 Series 2,Beagle B.121 Series 3,BH.125 Series 400A,BH.125 Series 600A,C23,C24R,C35,C-45G,C-45H,C50,C54-DC,C54A-DC,C54B-DC,C54D-DC,C54G-DC,C54E-DC,C90,C90A,C90GT,C90GTi,C99,CL-215-1A10,CL-215-6B11 (CL-215T Variant),CL-215-6B11 (CL-415 Variant),CL-44J,CL-600-1A11 (CL-600),CL-600-2A12 (CL-601),CL-600-2B16 (CL-601-3A),CL-600-2B16 (CL-601-3R),CL-600-2B16 (CL-604),CL-600-2B19 (Regional Jet Series 100),CL-600-2B19 (Regional Jet Series 440),CL-600-2C10 (Regional Jet Series 701),CL-600-2C10 (Regional Jet Series 702),CL-600-2C11 (Regional Jet Series 550),CL-600-2D15 (Regional Jet Series 705),CL-600-2D24 (Regional Jet Series 900),CL-600-2E25 (Regional Jet Series 1000),D18C,D18S,D35,D45 (Military T-34B),D50,D50A,D50B,D50C,D50E,D50E-5990,D55,D55A,D75N1 (Army PT-27),D95A,DC-10-10,DC-10-10F,DC-10-15,DC-10-30,DC-10-30F (KC-10A KDC-10),DC-10-40F,DC-10-40,DC3A-S1C3G,DC3A-S1CG,DC3A-S4C4G,DC3A-SC3G,DC3A-SCG,DC3C-R-1830-90C,DC3C-S1C3G,DC3C-SC3G,DC3C-S4C4G,DC3D-R-1830-90C,DC3-G102,DC3-G102A,DC3-G103A,DC3-G202A,DC-4,DC-6B,DC-7B,DC-7C,DC-6,DC-6A,DC-7,DC-8-11,DC-8-12,DC-8-21,DC-8-31,DC-8-32,DC-8-33,DC-8-41,DC-8-42,DC-8-43,DC-8-51,DC-8-52,DC-8-53,DC-8-55,DC-8-61,DC-8-61F,DC-8-62,DC-8-62F,DC-8-63,DC-8-63F,DC-8-71,DC-8-71F,DC-8-72,DC-8-72F,DC-8-73,DC-8-73F,DC-8F-54,DC-8F-55,DC-9-11,DC-9-12,DC-9-13,DC-9-14,DC-9-15,DC-9-15F,DC-9-21,DC-9-31,DC-9-32,DC-9-32 (VC-9C),DC-9-32F,DC-9-32F (C-9A),DC-9-32F (C-9B),DC-9-33F,DC-9-34,DC-9-34F,DC-9-41,DC-9-51,DC-9-81 (MD-81),DC-9-82 (MD-82),DC-9-83 (MD-83),DC-9-87 (MD-87),DH.125 Series 1A,DH.125 Series 1A-522,DH.125 Series 1A/R-522,DH.125 Series 1A/S-522,DH.125 Series 3A,DH.125 Series 3A/R,DH.125 Series 3A/RA,DH.125 Series 400A,DHC-2 Mk.I,DHC-2 Mk.II,DHC-2 Mk.III,DHC-4,DHC-4A,DHC-6-1,DHC-6-100,DHC-6-200,DHC-6-300,DHC-6-400,DHC-7-1,DHC-7-100,DHC-7-101,DHC-7-102,DHC-7-103,E17B (Army

SMALL AIRCRAFT

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

UC-43D),E17L,E18S,E18S-9700,E310H,E310J,E33,E33A,E33C,E35,E50,E55,E55A,E75 (Army PT-13D; Navy N2S-5; PT-13D/N2S-5),E75N1 (Army PT-13D; Navy N2S-5; PT-13D/N2S-5),E90,E95,EMB-110P1,EMB-110P2,EMB-120,EMB-120FC,EMB-120QC,EMB-120RT,EMB-120ER,EMB-135,EMB-135BJ (Legacy 600),EMB-135BJ (Legacy 650),EMB-135BJ,EMB-135ER,EMB-135KE,EMB-135KL,EMB-135LR,EMB-145EP,EMB-145ER,EMB-145LR,EMB-145MP,EMB-145MR,EMB-145XR,EMB-500,EMB-505,EMB-545,EMB-550,ERJ 170-100 LR,ERJ 170-100 SE,ERJ 170-100 STD,ERJ 170-100 SU,ERJ 170-200 LL,ERJ 170-200 LR,ERJ 170-200 STD,ERJ 170-200 SU,ERJ 190-100 ECJ,ERJ 190-100 IGW,ERJ 190-100 LR,ERJ 190-100 STD,ERJ 190-200 IGW,ERJ 190-200 LR,ERJ 190-200 STD,ERJ 190-300,ERJ 190-400,F150F,F150G,F150H,F150J,F150K,F150L,F150M,F152,F172D,F172E,F172F,F172G,F172H,F172K,F172L,F172M,F172N,F172P,F172D (UC-43C),F27 Mark 050,F27 Mark 100,F27 Mark 200,F27 Mark 300,F27 Mark 400,F27 Mark 500,F27 Mark 600,F27 Mark 700,F28 Mark 0070,F28 Mark 0100,F28 Mark 1000,F28 Mark 2000,F28 Mark 3000,F28 Mark 4000,F33,F33A,F33C,F337E,F337F,F337G,F337H,F35,F50,FA150K,FA150L,FA150M,FA152,Falcon 7X,Falcon 900EX,FALCON 2000,FALCON 2000EX,Falcon 10,Fan Jet Falcon,Fan Jet Falcon Series C,Fan Jet Falcon Series D,Fan Jet Falcon Series E,Fan Jet Falcon Series F,Fan Jet Falcon Series G,FP172D,FR172E,FR172F,FR172G,FR172H,FR172J,FR172K,FRA150L,FRA150M,FT337E,FT337F,FT337GP,FT337HP,G-1159,G-1159A,G-1159B,G18S,G33,G50,G58,G-IV,GIV-X,Gulfstream 100,Gulfstream 200,GV,GV-SP,GVI,GVII-G500,GVII-G600,H18,H35,H50,H90,Hawker 750,Hawker 800,Hawker 800 (U-125A),Hawker 800XP,Hawker 850XP,Hawker 900XP,Hawker 1000,HS 748 Series 2A,HS 748 Series 2B,HS.125 Series 1B,HS.125 Series 1B-522,HS.125 Series 1B/R-522,HS.125 Series 1B/S-522,HS.125 Series 3B,HS.125 Series 3B/R,HS.125 Series 3B/RA,HS.125 Series 3B/RB,HS.125 Series 3B/RC,HS.125 Series 400A,HS.125 Series 400B,HS.125 Series 400B/1,HS.125 Series 401B,HS.125 Series 403A(C),HS.125 Series 403B,HS.125 Series 600A,HS.125 Series 600B,HS.125 Series 600B/1,HS.125 Series

SMALL AIRCRAFT

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

600B/2,HS.125 Series 600B/3,HS.125 Series
 700A,HS.125 Series 700B,HS.125 Series
 F3B,HS.125 Series F3B/RA,HS.125 Series
 F400B,HS.125 Series F403B,HS.125 Series
 F600B,IB75A,J35,JRB-6,K35,L-1011-385-
 1,L-1011-385-1-14,L-1011-385-1-15,L-1011-
 385-3,LC40-550FG,LC40-550G,LC41-
 550FG,M19A,M337B,M35,MD-10-10F,MD-
 10-30F,MD-11,MD-11F,MD-88,MD-90-
 30,MU-300-10,MU-300,Mystere-Falcon 20 -
 C5,Mystere-Falcon 20 - D5,Mystere-Falcon 20
 - E5,Mystere-Falcon 20 - F5,Mystere-Falcon
 50,Mystere-Falcon 200,Mystere-Falcon
 900,N35,Navy R6D-1,Navy R6D-
 1Z,P172D,P206,P206A,P206B,P206C,P206D,
 P206E,P210N,P210R,P337H,P35,R172E,R17
 2F,R172G,R172H,R172J,R172K,R182,R4D-
 8,R4D-8Z,RC-
 45J,S18A,S18D,S35,SA18A,SA18D,SA-
 307B,SA-307B-1,SAAB 340B,340A (SAAB
 SF340A),SAAB 2000,SC-7 Skyvan Series
 2,SC-7 Skyvan Series 3,SD17S,SD3-30,SD3-
 60,SD3-60 SHERPA,SD3-SHERPA,Super
 DC-
 3,T182,T182T,T188C,T206H,T207,T207A,T2
 10F,T210G,T210H,T210J,T210K,T210L,T210
 M,T210N,T210R,T240,T310P,T310Q,T310R,
 T337B,T337C,T337D,T337E,T337F,T337G,T
 337H,T337H-SP,T-6G,TC-45G,TC-45H,TC-
 45J,TP206A,TP206B,TP206C,TP206D,TP206
 E,TR182,TU206A,TU206B,TU206C,TU206D
 ,TU206E,TU206F,TU206G,U206,U206A,U20
 6B,U206C,U206D,U206E,U206F,U206G,UC-
 45J,USAF C-118A,V35,V35A,V35B,12-
 B,140A,149-46,1649A-
 98,177RG,18A,195A,203-B,208B,247-D
 (Army C-73),300-50A-01 (USAF C-
 141A),3TM,402-2,45 (Military YT-34),720B
 Series,80-A1,99A (FACH),A60,ATP,B18S
 (Army F-2),B75N1 (Navy N2S-3),B90,BD-
 100-1A10 (Challenger 300),C18S,CL-
 44D4,D17A (Army UC-43F),D17R (Army
 UC-43A),D17S,DHC-3,Electra 10-
 E,F177RG,F90,FR182,G-
 159,G17S,G35,G36,Galaxy,Gulfstream
 G150,Gulfstream G280,HU-16D,J50,Jetstream
 Model 4101,LC42-550FG,NA-260,Navy
 SNB-1,O-47B,PC-24,S-
 307,S550,SE17B,SF17D,SNJ-7,Super
 Universal,T303,T-34C,TR-1

2023-10-05

R 2023-07-51

Leonardo S.p.a.

AB139,AW139

2023-11-03

Honda Aircraft Company LLC

HA-420

Biweekly 2023-13

2023-09-09

Aerostar Aircraft Corporation,B-N Group
 Ltd.,Commander Aircraft

PA-60-600 (Aerostar 600),PA-60-601
 (Aerostar 601),PA-60-601P (Aerostar

SMALL AIRCRAFT

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

<p>Corporation,Cirrus Design Corporation,Continental Aerospace Technologies Inc.,Costruzioni Aeronautiche Tecnam S.P.A.,Daher Aerospace,Diamond Aircraft Industries Inc.,The Enstrom Helicopter Corporation,Helio Aircraft LLC,Helio Alaska Inc.,The King's Engineering Fellowship,Lycoming Engines,Maule Aerospace Technology Inc.,Merlyn Products Inc.,Mooney International Corporation,Piper Aircraft Inc.,Revo Incorporated,Scotts-Bell 47 Inc.,Siam Hiller Holdings Inc.,SST FLUGTECHNIK GmbH,Textron Aviation Inc.,Triton Aerospace LLC,Twin Commander Aircraft LLC,Vulcanair S.p.A.</p>	<p>601P),PA-60-602P (Aerostar 602P),PA-60- 700P (Aerostar 700P),BN-2,BN-2A,BN-2A- 6,BN-2A-8,BN-2A- 9,112TC,112TCA,114TC,SR22,SR22T,LTSI O-360-E,LTSIO-360-EB,LTSIO-360- KB,LTSIO-360-RB,TSIO-360-E,TSIO-360- EB,TSIO-360-F,TSIO-360-FB,TSIO-360- KB,TSIO-360-LB,TSIO-360-MB,TSIO-360- RB,TSIO-360-SB,TSIO-520-BE,TSIO-520- L,TSIO-520-LB,TSIO-520-T,TSIO-520- WB,TSIO-550-A,TSIO-550-B,TSIO-550- C,TSIO-550-E,TSIO-550-G,TSIO-550- J,TSIO-550-K,TSIO-550-N,TSIOF-550- D,TSIOF-550-J,IO-520-B,IO-520-BA,IO-520- BB,IO-520-D,IO-550-B,IO-550-E,IO-550- N,P2012 Traveller,TB 21,DA 40,F-28C,F- 28C-2,F-28C-2R,F-28F,F-28F- R,280C,280F,280FX,500,H-295 (USAF U10D),H-395 (USAF L-28A or U-10B),4500- 300,4500-300 Series II,IO-540-AA1A5,IO- 540-AG1A5,IO-540-S1A5,TIO-540- AE2A,TIO-540-AH1A,LTIO-540-J2BD,TO- 360-C1A6D,TO-360-E1A6D,LTO-360- A1A6D,LTO-360-E1A6D,TIO-540-J2BD,M- 5-210TC,IO-540- MX1,M20J,M20K,M20M,M20TN,M20V,PA- 23,PA-23-160,PA-23-235,PA-23-250,PA-23- 250 (Navy UO-1),PA-E23-250,PA-24- 250,PA-24-260,PA-24-400,PA-28-201T,PA- 28R-201T,PA-28RT-201T,PA-30,PA-31,PA- 31-325,PA-31-350,PA-31P,PA-31P-350,PA- 32-260,PA-32R-300,PA-32RT-300T,PA-32R- 301 (SP),PA-32-301T,PA-32R-301T,PA-34- 200,PA-34-200T,PA-34-220T,PA-39,PA-44- 180T,PA-46-310P,PA-46-350P,Lake LA- 4,Lake LA-4A,Lake LA-4-200,Lake 250,47G- 3B,47G-3B-1,47G-3B-2,47G-3B-2A,UH- 12L,UH-12L4,EA 400-500,35-33,35-A33,35- B33,35-C33,35- C33A,E33,E33A,E33C,F33,F33A,F33C,H35,J 35,K35,M35,N35,P35,S35,V35,V35A,V35B,3 6,A36,A36TC,B36TC,D55,E55,56TC,A56TC, 58,G58,60,A60,B60,95,95- C55,B95,B95A,D95A,E95,185,185A,185B,18 5C,185D,185E,A185E,A185F,A188,A188A,A 188B,T182,T182T,TR182,T188C,206,P206A, P206,P206B,P206C,P206D,P206E,T206H,TP 206A,TP206B,TP206C,TP206D,TP206E,TU2 06A,TU206B,TU206C,TU206D,TU206E,TU2 06F,TU206G,U206,U206A,U206B,U206C,U2 06D,U206E,U206F,U206G,T207,T207A,210, 210A,210B,210C,210-5 (205),210-5A (205A),P210N,T210G,T210H,T210J,T210K,T 210L,T210M,T210N,T240,T303,310,310B,31 0C,310D,310E,310F,310G,310H,310I,310J,T3 10P,T310Q,T310R,320,320A,320B,320C,320 D,320E,320F,320-</p>
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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

1,321,335,340,340A,LC40-550FG,LC41-550FG,LC42-550FG,FT337E,FT337F,FT337GP,FT337HP,P337H,T337B,T337C,T337D,T337E,T337F,T337G,T337H,T337H-SP,401,401A,401B,402,402A,402B,402C,404,411,411A,414,414A,421,421A,421B,421C,A500,500-A,500-B,500-S,500-U,560-A,560-E,685,P.68C-TC,P.68TC Observer,EA-400

2023-11-05
2023-11-12

R 2021-10-28

Pilatus Aircraft Ltd.
DAHER AEROSPACE

PC-24
TBM 700

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:

2023-09-09 Various Airplanes, Helicopters, and Engines: Amendment 39 22432; Docket No. FAA-2022-0891; Project Identifier AD-2022-00585-A,E,R.

(a) Effective Date

This airworthiness directive (AD) is effective July 17, 2023.

(b) Affected ADs

None.

(c) Definitions

(1) For purposes of this AD, a “v-band coupling” means a spot-welded, multi-segment v-band coupling installed at the tailpipe to turbocharger exhaust housing flange.

(2) For purposes of this AD, “new” means zero hours time-in-service (TIS).

(d) Applicability

This AD applies to all turbocharged, reciprocating engine-powered airplanes and helicopters and turbocharged, reciprocating engines, certificated in any category, with a spot-welded, multi-segment v-band coupling installed at the tailpipe to turbocharger exhaust housing flange, except for airplanes that are in compliance with an AD listed in paragraphs (d)(1) through (10) of this AD, or have the supplemental type certificate (STC) listed in paragraph (d)(11) of this AD installed. These v-band couplings are installed on, but not limited to, the products listed in Table 1 to paragraph (d) of this AD.

(1) AD 2018-06-11, Amendment 39-19231 (, March 29, 2018).

(2) AD 2014-23-03, Amendment 39-18019 (, November 13, 2014).

(3) AD 2013-10-04, Amendment 39-17457 (, June 12, 2013; corrected September 5, 2013 ()).

(4) AD 2010-13-07, Amendment 39-16338 (, June 23, 2010; corrected July 26, 2010 ()).

(5) AD 2004-23-17, Amendment 39-13872 (, November 22, 2004).

(6) AD 2001-08-08, Amendment 39-12185 (, April 20, 2001).

(7) AD 2000-11-04, Amendment 39-11752 (, June 1, 2000).

(8) AD 2000-01-16, Amendment 39-11514 (, January 19, 2000).

(9) AD 91-21-01 R1, Amendment 39-9470 (, June 7, 1996; corrected September 6, 1996 ()).

(10) AD 81-23-03 R2, Amendment 39-4491 (, November 12, 1982).

(11) STC Number SA4976NM for Type Certificate Number: A17WE, Make: Aerostar, Model: PA-60-600, -601, -601P, -602P, and -700P.

Table 1 to Paragraph (d)-Applicability Includes, But Is Not Limited to, the Following Airplanes, Helicopters, and Engines When Turbocharged

Type certificate holder Model

Aerostar Aircraft Corporation	PA-60-600 (Aerostar 600), PA-60-601 (Aerostar 601), PA-60-601P (Aerostar 601P), PA-60-602P (Aerostar 602P), and PA-60-700P (Aerostar 700P).
B-N Group Ltd. (formerly Pilatus Britten-Norman Limited)	BN-2, BN-2A, BN-2A-6, BN-2A-8, and BN-2A-9.
Cirrus Design Corporation	SR22, SR22T.
Commander Aircraft Corporation (formerly CPAC, Inc.; Commander Aircraft Company; Gulfstream Aerospace Corporation; Gulfstream American Corporation; and Rockwell International, Commander Aircraft Division)	112TC, 112TCA, and 114TC.
Continental Aerospace Technologies, Inc. (formerly Continental Motors, Inc., and Teledyne Continental Motors)	LTSIO-360-E, LTSIO-360-EB, LTSIO-360-KB, LTSIO-360-RB; TSIO-360-E, TSIO-360-EB, TSIO-360-F, TSIO-360-FB, TSIO-360-KB, TSIO-360-LB, TSIO-360-MB, TSIO-360-RB, TSIO-360-SB; TSIO-520-BE, TSIO-520-L, TSIO-520-LB, TSIO-520-T, TSIO-520-WB; TSIO-550-A, TSIO-550-B, TSIO-550-C, TSIO-550-E, TSIO-550-G, TSIO-550-J, TSIO-550-K, TSIO-550-N; TSIOF-550-D, TSIOF-550-J, IO-520-B, IO-520-BA, IO-520-BB, IO-520-D, IO-550-B, IO-550-E, and IO-550-N.
Costruzioni Aeronautiche Tecnam S.P.A	P2012 Traveller.
Daher Aerospace (formerly SOCATA and SOCATA-Groupe AEROSPATIALE)	TB 21.
Diamond Aircraft Industries Inc.	DA 40.

(formerly Diamond Aircraft Industries GmbH)

The Enstrom Helicopter Corporation F-28C, F-28C-2, F-28C-2R, F-28F, F-28F-R, 280C, 280F, and 280FX.

Helio Aircraft LLC 500.

Helio Alaska, Inc H-295 (USAF U-10D) and H-395 (USAF L-28A or U-10B).

The King's Engineering Fellowship (formerly Evangel-Air) 4500-300 and 4500-300 Series II.

Lycoming Engines (formerly Textron Lycoming) IO-540-AA1A5, IO-540-AG1A5, IO-540-S1A5, TIO-540-AE2A, TIO-540-AH1A, TIO-540-J2BD, TO-360-C1A6D, TO-360-E1A6D, LTO-360-A1A6D, LTO-360-E1A6D, and LTIO-540-J2BD.

Maule Aerospace Technology, Inc. (formerly Maule Aircraft Corporation) M-5-210TC.

Merlyn Products, Inc IO-540-MX1.

Mooney International Corporation (formerly Mooney Aviation Company, Inc.; Mooney Airplane Company, Inc.; Mooney Aircraft Corporation; Aerostar Aircraft Corporation of Texas; and Mooney Aircraft Inc.)

Piper Aircraft, Inc. (formerly The New Piper Aircraft, Inc.) PA-23, PA-23-160, PA-23-235, PA-23-250, PA-23-250 (Navy UO-1), PA-E23-250, PA-24-250, PA-24-260, PA-24-400, PA-28-201T, PA-28R-201T, PA-28RT-201T, PA-30, PA-31, PA-31-325, PA-31-350, PA-31P, PA-31P-350, PA-32-260, PA-32R-300, PA-32RT-300T, PA-32R-301(SP), PA-32-301T, PA-32R-301T, PA-34-200, PA-34-200T, PA-34-220T, PA-39, PA-44-180T, PA-46-310P, and PA-46-350P.

Revo, Incorporated (formerly Global Amphibians, LLC; Consolidated Aeronautics, Inc.; Lake Aircraft Corporation; and Colonial Aircraft Company) Lake Model LA-4, Lake Model LA-4A, Lake Model LA-4-200, and Lake Model 250.

Scott's-Bell 47, Inc. (formerly Bell Helicopter Textron Inc.) 47G-3B, 47G-3B-1, 47G-3B-2, and 47G-3B-2A.

Siam Hiller Holdings, Inc. (formerly Rogerson Hiller

<p>Corporation; Hiller Helicopters; Rogerson Aircraft Corporation; Hiller Aviation; Heli-Parts, Inc.; Fairchild Industries, Inc.; and Hiller Aircraft Corporation)</p>	<p>UH-12L and UH-12L4.</p>
<p>SST FLUGTECHNIK GmbH (formerly Extra Flugzeugproduktions- und Vertriebs-GmbH and Extra Flugzeugbau GmbH Flugplatz)</p>	<p>EA 400.</p>
<p>Textron Aviation Inc. (formerly Beechcraft Corporation, Hawker Beechcraft Corporation, Raytheon Aircraft Company, and Beech Aircraft Corporation)</p>	<p>35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC, D55, E55, 56TC (Turbo Baron), A56TC (Turbo Baron), 58, G58, 60 (Duke), A60 (Duke), B60 (Duke), 95, 95-C55, B95, B95A, D95A, and E95.</p>
<p>Textron Aviation Inc. (formerly Cessna Aircraft Company)</p>	<p>185, 185A, 185B, 185C, 185D, 185E, A185E, A185F, A188, A188A, A188B, A188C, T182, T182T, TR182, T188C, 206, P206, P206A, P206B, P206C, P206D, P206E, T206H, TP206A, TP206B, TP206C, TP206D, TP206E, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G, U206, U206A, U206B, U206C, U206D, U206E, U206F, U206G, T207, T207A, 210, 210A, 210B, 210C, 210-5 (205), 210-5A (205A), P210N, T210G, T210H, T210J, T210K, T210L, T210M, T210N, T240, T303, 310, 310B, 310C, 310D, 310E (USAF U-3B), 310F, 310G, 310H, 310I, 310J, T310P, T310Q, T310R, 320, 320A, 320B, 320C, 320D, 320E, 320F, 320-1, 321, 335, 340, 340A, LC40-550FG, LC41-550FG, LC42-550FG, FT337E, FT337F, FT337GP, FT337HP, P337H, T337B, T337C, T337D, T337E, T337F, T337G, T337H, T337H-SP, 401, 401A, 401B, 402, 402A, 402B, 402C, 404, 411, 411A, 414, 414A, 421, 421A, 421B, 421C.</p>
<p>Triton Aerospace LLC (formerly Triton America LLC; AAI Acquisition, Inc.; and Adam Aircraft)</p>	<p>A500.</p>
<p>Twin Commander Aircraft LLC (formerly Twin Commander Aircraft Corporation; Gulfstream Aerospace Corporation; Gulfstream American Corporation; Rockwell-Standard & Associates; and Aero Design and Engineering Company, also known as Aero Commander Aircraft)</p>	<p>500, 500A, 500B, 500S, 500U, 560A, 560E, and 685.</p>

Vulcanair S.p.A.
(formerly Partenavia P.68C-TC, and P.68TC "Observer"
Costruzioni
Aeronautiche S.p.A.)

(e) Subject

Joint Aircraft System Component (JASC) Code 8100, Exhaust Turbine System (Recip).

(f) Unsafe Condition

This AD was prompted by multiple failures of spot-welded, multi-segment v-band couplings installed at the tailpipe to turbocharger exhaust housing flange. The FAA is issuing this AD to prevent failure of the spot-welded, multi-segment exhaust tailpipe v-band coupling. The unsafe condition, if not addressed, could lead to detachment of the exhaust tailpipe from the turbocharger and allow high-temperature exhaust gases to enter the engine compartment. This could result in smoke in the cockpit, in-flight fire, and loss of control of the aircraft.

(g) Compliance

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

(h) Review of the Maintenance Records

Within 50 hours TIS after the effective date of this AD, review the aircraft maintenance records to determine the number of hours TIS accumulated on each v-band coupling.

(i) V-Band Coupling Life Limit

(1) Within the compliance times specified in paragraph (i)(1)(i) or (ii) or (i)(2) of this AD, remove the v-band coupling from service and install a new v-band coupling. Apply correct torque as necessary to the v-band coupling nut.

(i) If the v-band coupling has accumulated less than 500 hours TIS: Initially remove the v-band coupling from service before it accumulates 500 hours TIS or within 50 hours TIS after the effective date of this AD, whichever occurs later. Thereafter, remove the v-band coupling from service before it accumulates 500 hours TIS.

(ii) If the v-band coupling has accumulated 500 or more hours TIS or if the hours TIS of the v-band coupling cannot be determined: Initially remove the v-band coupling from service within 50 hours TIS after the effective date of this AD. Thereafter, remove the v-band coupling from service before it accumulates 500 hours TIS.

(2) As an alternative to initially removing the v-band coupling from service as required by paragraph (i)(1) of this AD, you may perform the inspections required by paragraphs (k)(1) through (7) or (l) of this AD. Do the initial inspections at the time the v-band coupling would have been removed from service and thereafter at intervals not to exceed 6 months or 100 hours TIS, whichever occurs first, for a period not to exceed 2 years after the effective date of this AD. If the v-band coupling fails to meet any inspection criteria in

paragraphs (k)(1) through (7) or (l) of this AD, it must be removed from service before further flight. Removing the v-band coupling from service and installing a new v-band coupling does not terminate the requirement to do these repetitive inspections.

Note 1 to paragraph (i): Instructions for installing a v-band coupling can be found in Appendix B: Best Practices Guide, paragraph 3.1, of the “Exhaust System Turbocharger to Tailpipe V-band Coupling/Clamp Working Group Final Report,” dated January 2018.

(j) V-Band Coupling Inspections

At the next annual inspection after the effective date of this AD or within the next 12 months after the effective date of this AD, whichever occurs first, and repetitively thereafter at intervals not to exceed 12 months, visually inspect the v-band coupling as required by paragraphs (k)(1) through (7) of this AD. Removing the v-band coupling from service and installing a new v-band coupling does not terminate the requirement to do these repetitive inspections.

(k) Inspections Without Removal of the V-Band Coupling

(1) Inspect the v-band coupling and area around the v-band coupling for exhaust stains, sooting, and discoloration. If any of those conditions are found, remove the coupling and, instead of the inspections in paragraphs (k)(2) through (7) of this AD, do the inspections in paragraph (l) of this AD.

(2) Inspect the v-band coupling outer band for cracks, paying particular attention to the spot weld areas. If there is a crack, before further flight, remove the v-band coupling from service and install a new v-band coupling.

(3) Inspect the v-band coupling for looseness and for separation of the outer band from the v-retainer segments at all spot welds. If there is any looseness or separation of the outer band from any retainer segment, before further flight, remove the v-band coupling from service and install a new v-band coupling.

(4) Inspect the v-band coupling outer band for cupping, bowing, and crowning as depicted in figure 1 to paragraph (l)(1)(iii) of this AD. If there is any cupping, bowing, or crowning, before further flight, remove the coupling and, instead of the inspections in paragraphs (k)(5) through (7) of this AD, do the inspections in paragraph (l) of this AD.

(5) Inspect the area of the v-band coupling, including the outer band, opposite the t-bolt for damage and distortion. If there is any damage or distortion, before further flight, remove the v-band coupling from service and install a new v-band coupling.

(6) Using a mirror, inspect the v-band coupling to determine whether there is a space between the two v-retainer coupling segments next to the t-bolt. If there is no space between the two v-retainer coupling segments next to the t-bolt, before further flight, remove the v-band coupling from service and install a new v-band coupling.

(7) Determine whether the v-band coupling nut is properly torqued and apply correct torque as necessary.

(l) Inspections With the Spot-Welded, Multi-Segment Exhaust Tailpipe V-Band Coupling Removed

(1) Remove the v-band coupling and do the inspections in paragraphs (l)(1) and (2) of this AD if required by paragraph (k)(1) or (4) of this AD or as an alternative to the inspections required by paragraph (k) of this

AD. Removing the v-band coupling from service and installing a new v-band coupling does not terminate the requirement to repeat the inspections in paragraph (k) or (l) of this AD.

(i) Using crocus cloth or fine abrasive cloth and mineral spirits or Stoddard solvent, clean the outer band of the v-band coupling. Pay particular attention to the spot weld areas on the v-band coupling. If there is corrosion that cannot be removed by cleaning or if there is pitting, before further flight, remove the v-band coupling from service and install a new v-band coupling.

(ii) Using a 10X magnifying glass, visually inspect the outer band for cracks, paying particular attention to the spot weld areas. If there is a crack, before further flight, remove the v-band coupling from service and install a new v-band coupling.

(iii) Visually inspect the flatness of the outer band using a straight edge. Lay the straight edge across the width of the outer band as depicted in figure 1 to paragraph (l)(1)(iii) of this AD. If the gap between the outer band and the straight edge exceeds 0.062 inch, before further flight, remove the v-band coupling from service and install a new v-band coupling.

(iv) With the t-bolt in the 12 o'clock position, visually inspect the attachment of the outer band to the v-retainer coupling segments for gaps between the outer band and the v-retainer coupling segments from the 1 o'clock through 11 o'clock positions. If there are any gaps between the outer band and the v-retainer coupling segments, before further flight, remove the v-band coupling from service and install a new v-band coupling.

Note 2 to paragraph (l)(1)(iv): You may use backlighting to see gaps.

(v) Visually inspect the bend radii of the v-retainer coupling segments, throughout the length of the segment, as depicted in figure 1 to paragraph (l)(1)(iii) of this AD, for cracks. If there are any cracks, before further flight, remove the v-band coupling from service and install a new v-band coupling.

(vi) Visually inspect the outer band opposite the t-bolt for damage (distortion, creases, bulging, or cracks) caused by excessive spreading of the coupling during installation or removal. If there is any damage, before further flight, remove the v-band coupling from service and install a new v-band coupling.

(2) If the v-band coupling passes all of the inspections in paragraphs (l)(1)(i) through (vi) of this AD, it may be re-installed.

(i) Apply correct torque as necessary to the v-band coupling nut.

(ii) Inspect the v-band coupling to determine whether there is space between the two v-retainer coupling segments next to the t-bolt. If there is no space between the two v-retainer coupling segments next to the t-bolt, before further flight, remove the v-band coupling from service and install a new v-band coupling.

(m) Installation Prohibitions

(1) From the effective date of this AD until two years after the effective date of this AD, do not install a v-band coupling that has accumulated more than zero hours TIS on any turbocharged airplane, helicopter, or engine, unless it has passed all inspections required by paragraph (k) or (l) of this AD.

(2) As of two years after the effective date of this AD, do not install a v-band coupling that has accumulated more than zero and less than 500 hours TIS on any turbocharged airplane, helicopter, or engine, unless it has passed all inspections required by paragraph (k) or (l) of this AD.

(3) As of two years after the effective date of this AD, do not install a v-band coupling that has accumulated 500 or more hours TIS on any turbocharged airplane, helicopter, or engine.

(n) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Operational Safety 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 Operational Safety Branch, send it to the attention of Tom Teplik, add this AD number AD 2023–09–09 to the subject line, and email 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.

(o) Related Information

(1) For more information about this AD, contact Thomas Teplik, Aviation Safety Engineer, Central Certification Branch, FAA, 1801 S Airport Road, Wichita, KS 67209; phone: (316) 946–4196; email: or .

(2) The “Exhaust System Turbocharger to Tailpipe V-band Coupling/Clamp Working Group Final Report,” dated January 2018, may be found in the AD docket at *regulations.gov* by searching for and locating Docket No. FAA–2022–0891.

(p) Material Incorporated by Reference

None.

Issued on May 9, 2023.

Gaetano A. Sciortino,

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

[FR Doc. 2023–12417 Filed 6–9–23; 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 2021–10–28, Amendment 39–21561 (, June 10, 2021); and

Adding the following new airworthiness directive:

2023–11–05Pilatus Aircraft Ltd.: Amendment 39–22451; Docket No. FAA–2023–0426; Project Identifier MCAI–2022–01324–A.

(a) Effective Date

This airworthiness directive (AD) is effective July 18, 2023.

(b) Affected ADs

This AD replaces AD 2021–10–28, Amendment 39–21561 (, June 10, 2021) (AD 2021–10–28).

(c) Applicability

This AD applies to Pilatus Aircraft Ltd. Model PC–24 airplanes, all serial numbers, certificated in any category.

(d) Subject

Joint Aircraft System Component (JASC) Code 2460, DC Power/Distribution System.

(e) Unsafe Condition

This AD was prompted by mandatory continuing airworthiness information (MCAI) originated by an aviation authority of another country to identify and correct an unsafe condition on an aviation product. The MCAI states that failure to revise the airworthiness limitations section (ALS) of the existing aircraft maintenance manual (AMM) by introducing new or more restrictive tasks and limitations, which introduces a new certification maintenance requirement (CMR) task to test emergency power contactor 2, could result in an unsafe condition. The FAA is issuing this AD to address failure of certain parts, which could result in loss of control of the airplane.

(f) Compliance

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

(g) Required Actions

(1) Before further flight after the effective date of this AD, revise the ALS of the existing AMM or Instructions for Continued Airworthiness for your airplane by incorporating the requirements specified in paragraph (1) of European Union Aviation Safety Agency AD 2022–0207, dated October 10, 2022 (EASA AD 2022–0207).

(2) The actions required by paragraph (g)(1) of this AD may be performed by the owner/operator (pilot) holding at least a private pilot certificate and must be entered into the aircraft records showing compliance with this AD in accordance with §§43.9(a) and 91.417(a)(2)(v). The record must be maintained as required by §91.417, 121.380, or 135.439.

(h) Provisions for Alternative Requirements (Airworthiness Limitations)

After the actions required by paragraph (g) of this AD have been done, no alternative requirements (airworthiness limitations) are allowed unless they are approved as specified in the provisions of the “Ref. Publications” section of EASA AD 2022–0207.

(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 §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 International Validation Branch, send it to the attention of the person identified in paragraph (j) of this AD or email to: . If mailing information, also submit information by email. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the responsible Flight Standards Office.

(2) Global AMOC AIR–730–22–248, dated July 12, 2022, was approved as an AMOC for the requirements of AD 2021–10–28, and is approved as an AMOC for the requirements of paragraph (g) of this AD. Other AMOCs previously issued for the requirements of AD 2021–10–28 are not approved as an AMOC for the requirements of this AD.

(j) Additional Information

For more information about this AD, contact Doug Rudolph, Aviation Safety Engineer, FAA, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; phone: (816) 329–4059; email:

(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 and .

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

(i) European Union Aviation Safety Agency AD 2022–0207, dated October 10, 2022.

(ii) [Reserved]

(3) For EASA AD 2022–0207, contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; phone: +49 221 8999 000; email: ; website *easa.europa.eu*. You may find this EASA AD on the EASA website at *ad.easa.europa.eu*.

(4) You may view this service information at the 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 (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 June 2, 2023.

Michael Linegang,

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

[FR Doc. 2023–12491 Filed 6–12–23; 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:

2023–11–12 DAHER AEROSPACE (Type Certificate Previously Held by SOCATA): Amendment 39–22458; Docket No. FAA–2023–0425; Project Identifier MCAI–2022–00980–A.

(a) Effective Date

This airworthiness directive (AD) is effective July 21, 2023.

(b) Affected ADs

None.

(c) Applicability

This AD applies to DAHER AEROSPACE (type certificate previously held by SOCATA) Model TBM 700 airplanes, serial numbers 434 through 1424 inclusive, except serial numbers 1408 and 1420, certificated in any category.

(d) Subject

Joint Aircraft System Component (JASC) Code 5220, Emergency Exits.

(e) Unsafe Condition

This AD was prompted by mandatory continuing airworthiness information (MCAI) originated by an aviation authority of another country to identify and correct an unsafe condition on an aviation product. The MCAI identifies the unsafe condition as interference between the emergency exit trim panel and the upholstery panel, which could result in additional effort required to open the emergency exit door. The FAA is issuing this AD to address this condition. The unsafe condition, if not addressed, could lead to failure of the emergency exit door to perform its intended function during an emergency opening, resulting in reduced evacuation capacity from the airplane and injury to occupants.

(f) Compliance

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

(g) Required Actions

Within 12 months after the effective date of this AD, modify the gripping strap on the emergency exit trim panel by following, as applicable for your serial-numbered airplane, sections A, B, and C in the Description

of Accomplishment Instructions in Daher Aerospace Service Bulletin SB 70–304, dated July 2022 (Daher SB 70–304), except where Daher SB 70–304 specifies to discard certain parts, this AD requires removing those parts from service. If the operational check of the emergency exit fails, before further flight, re-modify the gripping strap on the emergency exit trim panel by following, as applicable for your serial-numbered airplane, sections A, B, and C in the Description of Accomplishment Instructions in Daher SB 70–304 until it passes this operational check, except where Daher SB 70–304 specifies to discard certain parts, this AD requires removing those parts from service.

(h) Alternative Methods of Compliance (AMOCs)

The Manager, International Validation 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 International Validation Branch, mail it to the address identified in paragraph (i)(2) of this AD or email to: . If mailing information, also submit information by email. 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.

(i) Additional Information

(1) Refer to European Union Aviation Safety Agency (EASA) AD 2022–0149, dated July 21, 2022, for related information. This EASA AD may be found in the AD docket at *regulations.gov* under Docket No. FAA–2023–0425.

(2) For more information about this AD, contact Fred Guerin, Aviation Safety Engineer, FAA, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; phone: 206–231–2346; email: .

(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 and .

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

(i) Daher Aerospace Service Bulletin SB 70–304, dated July 2022.

(ii) [Reserved]

(3) For service information identified in this AD, contact DAHER AEROSPACE, Customer Support, Airplane Business Unit, Tarbes Cedex 9, France 65921; phone: (833) 826–2273; email: ; website: *daher.com*.

(4) You may view this service information at the 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 (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 June 12, 2023.

Ross Landes,

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

[FR Doc. 2023-12914 Filed 6-15-23; 8:45 am]

BILLING CODE 4910-13-P