

**FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES**

**LARGE AIRCRAFT
BIWEEKLY 2018-24**

11/12/2018 - 11/25/2018



Federal Aviation Administration
Continued Operational Safety Policy Section, AIR-141
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LARGE AIRCRAFT

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

Biweekly 2018-01

2017-26-06		Rolls-Royce Corporation	AE 3007A, AE 3007A1, AE 3007A1/1, AE 3007A1/2, AE 3007A1/3, AE 3007A1P, AE 3007A1E, AE 3007A3, AE 3007C and 3007C1 turbofan engines
2017-26-07		The Boeing Company	757-200, -200CB, and -300 series airplanes
2017-26-08		ATR-GIE Avions de Transport Régional	ATR42-500 and ATR72-212A airplanes
2017-26-09		ATR-GIE Avions de Transport Régional	ATR42-500 and ATR72-212A airplanes
2017-26-10		The Boeing Company	757-200, -200PF, -200CB, and -300 series airplanes,
2018-01-01		The Boeing Company	MD-11 and MD-11F airplanes
2018-01-02	R 2017-02-03	The Boeing Company	767-200, -300, and -400ER series airplanes
2018-01-03		Airbus	A300, A310 airplanes
2018-01-04	R 2011-04-05	Airbus	A340 airplanes
2018-01-05		Fokker Services B.V.	F28 Mark 0070 and 0100 airplanes
2018-01-06		Fokker Services B.V.	F28 Mark 0070 and 0100 airplanes

Biweekly 2018-02

2018-01-07		Airbus	A300 B4-601, B4-603, B4-620, B4-622, B4-605R, B4-622R, F4-605R, F4-622R, and C4-605R Variant F airplanes
2018-01-08		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2018-01-09	R 95-25-02	Fokker Services B.V.	F28 Mark 0100 series airplanes
2018-01-10	R 2011-14-10	Airbus	A330-342 airplanes
2018-01-11		Airbus	A319-115 and A319-133 airplanes
2018-02-03		Fokker Services B.V.	F28 Mark 0070 and Mark 0100 series airplanes
2018-02-06		Dassault Aviation	FALCON 7X, FALCON 2000EX, FALCON 900EX airplanes

Biweekly 2018-03

2018-02-09	R 2008-06-20 R1	Fokker Services B.V.	F28 Mark 1000, 2000, 3000, and 4000 airplanes
2018-02-10		Pratt & Whitney Division	PW4074, PW4074D, PW4077, PW4077D, PW4084D, PW4090, and PW4090-3 turbofan engines
2018-02-11		Airbus	A330-301, -321, -322 and A330-342 airplanes
2018-02-12	R 2016-02-01	Airbus	A320-211, -212, and -231 airplanes
2018-02-15	S 2007-08-06	British Aerospace Regional Aircraft	HP.137 Jetstream Mk.1, Jetstream Series 200 and 3101, and Jetstream Model 3201 airplanes
2018-02-16		Bombardier, Inc.	DHC-8-400, -401, and -402 airplanes

Biweekly 2018-04

2018-02-17	R 2012-12-12 R 2013-16-26	Airbus	A330, A340 airplanes
2018-02-18		Airbus	A318, A319, A320, A321 airplanes
2018-02-20		The Boeing Company	777-200, -200LR, -300, and -300ER series airplanes
2018-03-02		328 Support Services GmbH	328-300 airplanes
2018-03-04		Rosemount Aerospace, Inc.	Model 851AK pitot probes
2018-03-06	R 2015-02-18	Airbus	A330-201, -202, -203, -301, -302, and -303 airplanes
2018-03-07		Airbus	A330-202, -203, -223, and -243; A340-211, -212, -311, and -313 airplanes
2018-03-08	R 2005-19-28	Airbus	A330-301, -321, -322, and -342; A340-211, -212, -213, -311, -312, and -313 airplanes
2018-03-09		Airbus	A321-211 and -231 airplanes
2018-03-10		The Boeing Company	757-300 series airplanes
2018-03-11		Bombardier, Inc.	CL-600-2C10, -2D15, -2D24, -2E25 airplanes
2018-03-12		Airbus	A318, A319, A320, A321 airplanes
2018-03-13		General Electric Company	CT7-5A2, CT7-5A3, CT7-7A, CT7-7A1, CT7-9B, CT7-9B1, CT7-9B2, CT7-9C and CT7-9C3 model turboprop engines
2018-03-19		Dassault Aviation	FALCON 7X airplanes,
2018-03-20		Airbus	A330-301, -302, -303, -321, -322, -323, -341, -342, and -343 airplanes
2018-03-21		Airbus	A330-202, -203, -223, and -243 airplanes
2018-03-22		GE Aviation Czech s.r.o.	M601D-11, M601E-11, M601E-11A, M601E-11AS, M601E-11S, and M601F turboprop engines
2018-04-01		Airbus	A320-271N, A321-271N, and A321-272N airplanes

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AD No.	Information	Manufacturer	Applicability
Information Key: E – Emergency; COR – Correction; S – Supersedes; R – Replaces, A – Affects			
Biweekly 2018-05			
2017-06-06	R 2012-22-15	Fokker Services B.V.	F28 Mark 0070 and Mark 0100 airplanes
2018-04-03		Fokker Services B.V.	F28 Mark 0100 airplanes
2018-04-04		Bombardier, Inc.	CL-600-2C10, -2D15, -2D24, -2E25 airplanes
2018-04-05		Airbus	A319-112, A319-115, A320-214, A320-232, and A321-211 airplanes
2018-04-06	R 2012-12-05	The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2018-04-07		The Boeing Company	747-100, 747-100B, 747-100B SUD, 747-200B, 747-200C, 747-200F, 747-300, 747-400, 747-400D, 747-400F, 747SR, and 747SP series airplanes
2018-04-08		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
Biweekly 2018-06			
2018-02-17	R 2012-12-12	Airbus	A330, A340 airplanes
2018-04-12		The Boeing Company	737-100, -200, -200C, -300, -400, -500 series airplanes
2018-04-13		Honeywell International Inc.	AS907-1-1A model turbofan engines
2018-05-04		Airbus	A318, A319, A320, A321 airplanes
2018-05-05		Dassault Aviation	MYSTERE-FALCON 900, FALCON 900EX, FALCON 2000, and FALCON 2000EX airplanes
2018-05-06	R 2016-09-12	The Boeing Company	787-8 and 787-9 airplanes
2018-05-07		The Boeing Company	787-8 and 787-9 airplanes
2018-05-11		Airbus	A320-214, -251N, and -271N airplanes
2018-06-03	R 2009-18-16	Airbus	A310-203, -204, -221, -222, -304, -322, -324 and -325 airplanes
2018-06-06		Bombardier, Inc.	CL-600-2B16 (CL-604 Variant) airplanes
2018-06-08		The Boeing Company	757-200 series airplanes
Biweekly 2018-07			
2018-06-01		Airbus	A318, A319, A320, A321 airplanes
2018-06-02		Bombardier, Inc.	CL-600-2B19, -2C10, -2D15, -2D24 airplanes
2018-06-04		Airbus	A318, A319, A320, A321 airplanes
2018-06-05		The Boeing Company	737-300 and -500 series airplanes
2018-06-07		The Boeing Company	757-200, -200CB, and -300 series airplanes
Biweekly 2018-08			
2018-07-05		General Electric Company	CF6-80A, -80A1, -80A2, and -80A3 turbofan engines
2018-07-06		The Boeing Company	747-8 series airplanes
2018-07-07		Dassault Aviation	FAN JET FALCON, FAN JET FALCON SERIES D, E, F, and G; MYSTERE-FALCON 20-C5, 20-D5, 20-E5, and 20-F5 airplanes
2018-07-09		Bombardier, Inc.	CL-600-2C10, -2D15, -2D24, -2E25 airplanes
2018-07-10		Embraer S.A.	EMB-500 and EMB-505 airplanes
2018-07-11		Fokker Services B.V.	F28 Mark 0100 airplanes
2018-07-12		Airbus	A350-941 airplanes
Biweekly 2018-09			
2018-07-18	R 2015-19-12	The Boeing Company	767-200, -300, -300F, and -400ER series airplanes
2018-07-19		The Boeing Company	787-8 and 787-9 airplanes
2018-07-20	R 2014-03-07	The Boeing Company	MD-11 and MD-11F airplanes
2018-07-21	R 2005-12-16	Fokker Services B.V.	F28 Mark 0100 airplanes
2018-08-02		Rolls-Royce plc	Trent 1000-A2, Trent 1000-AE2, Trent 1000-C2, Trent 1000-CE2, Trent 1000-D2, Trent 1000-E2, Trent 1000-G2, Trent 1000-H2, Trent 1000-J2, Trent 1000-K2, and Trent 1000-L2 turbofan engines
2018-08-03		The Boeing Company	787-8 and 787-9 airplanes
2018-09-05		The Boeing Company	787-8 and 787-9 airplanes
2018-09-51		CFM International S.A.	CFM56-7B engines
Biweekly 2018-10			
2018-09-01		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2018-09-02	R 99-23-16	Airbus	A330 and A340 airplanes
2018-09-03	R 2009-11-08	Airbus	A330-202, -223, -243, -301, -322, and -342 airplanes
2018-09-04		Gulfstream Aerospace Corporation	G-IV, GIV-X airplanes

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2018-09-07		Rolls-Royce plc	Viper Mk. 601-22 engines
2018-09-08		The Boeing Company	737-200, -300, -400, and -500 series airplanes
2018-09-09		Airbus	A318, A319, A320, and A321 airplanes
2018-09-10		CFM International S.A.	CFM56-7B engines
2018-09-11		Airbus	A330 and A340 airplanes
2018-09-15	R 2016-25-18	Bombardier, Inc.	BD-700-1A10 and BD-700-1A11 airplanes
2018-09-16	R 2015-15-13	Airbus	A319, A320, and A321 airplanes
2018-10-02		The Boeing Company	787-8 airplanes
Biweekly 2018-11			
2018-09-09	Republication	Airbus	A318, A319, A320, and A321 airplanes
2018-09-12		The Boeing Company	747-200B, 747-300, and 747-400 series airplanes
2018-09-13		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2018-09-14	R 2016-11-02	Bombardier, Inc.	CL-600-2C10, -2D15, -2D24, and -2E25 airplanes
2018-09-17		Bombardier, Inc.	CL-600-1A11, -2A12, and -2B16 airplanes
2018-09-51		CFM International S.A.	CFM56-7B engines
2018-10-05	R 2016-23-01	Airbus	A310-203, -204, -221, -222, -304, -322, -324, and -325 airplanes
2018-10-08	R 2016-09-05	The Boeing Company	717-200 airplanes
2018-10-11	R 2018-09-10	CFM International S.A.	CFM56-7B engines
2018-10-12		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2018-11-02		Lockheed Martin Corporation/Lockheed Martin Aeronautics Company	188A and 188C airplanes; and P3A, P-3A, and P3B airplanes
Biweekly 2018-12			
2018-11-04		Aircraft Industries a.s.	L 410 UVP-E20 and L 410 UVP-E20 CARGO airplanes
2018-11-06		Airbus	A310-203, -221, -222, -304, -322, -324, and -325 airplanes
2018-11-07		Saab AB, Saab Aeronautics	SAAB 2000 airplanes
2018-11-08		The Boeing Company	767-200 and -300 series airplanes
2018-11-09	R 2014-02-01	Bombardier, Inc.	CL-600-2C10, -2D15, -2D24 airplanes
2018-11-10	R 2017-01-07	Dassault Aviation	FAN JET FALCON, FAN JET FALCON SERIES C, D, E, F, and G; MYSTERE-FALCON 200, 20-C5, 20-D5, 20-E5, 20-F5, and 50 airplanes
2018-11-11		Airbus	A350-941 airplanes
2018-11-12		Bombardier, Inc.	CL-600-2C10, -2D15, -2D24, -2E25 airplanes
2018-11-13		The Boeing Company	787-8 airplanes
2018-11-14		The Boeing Company	767-300 and -300F series airplanes
2018-11-15		Airbus	A320-271N; A321-271N, -271NX, -272N and -272NX airplanes
2018-12-02		Airbus	A318, A319, A320, A321 airplanes
2018-12-04		The Boeing Company	777-300ER series airplanes
2018-12-05		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
Biweekly 2018-13			
2016-19-13	COR	Dassault Aviation	See AD; FALCON 2000 was originally missing from the applicability table in AD Biweekly 2016-22.
2018-09-04	COR	Gulfstream Aerospace Corporation	G-IV, GIV-X airplanes
2018-11-16		Engine Alliance	GP7270, GP7272, and GP7277 model turbofan engines
2018-12-06		The Boeing Company	787-8 and 787-9 airplanes
2018-12-07	R 2015-24-06	Gulfstream Aerospace Corporation	GVI airplanes
2018-13-02		Pratt & Whitney Division	PW4052, PW4056, PW4060, PW4062, PW4062A, PW4152, PW4156A, PW4158, PW4460, and PW4462 turbofan engine models
2018-13-04		Bombardier, Inc.	BD-100-1A10 airplanes
Biweekly 2018-14			
2018-13-03		International Aero Engines	PW1133G-JM, PW1133GA-JM, PW1130G-JM, PW1127G-JM, PW1127GA-JM, PW1127G1-JM, PW1124G-JM, PW1124G1-JM, and PW1122G-JM turbofan engines

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Biweekly 2018-15

2018-12-08	R 2017-07-07	Airbus	A330-201, -202, -203, -223, -243, -301, -302, -303, -321, -322, -323, -341, -342, and -343; A340-212, -213, -312, and -313 airplanes	
2018-13-06	R 2016-01-11	The Boeing Company	767-300 and -300F series airplanes	
2018-13-08		Airbus	A318, A319, A320, A321 airplanes	
2018-14-02		The Boeing Company	777-200, -200LR, -300, and -300ER series airplanes	
2018-14-03		Bombardier, Inc.	CL-600-2C10, -2D15, -2D24, -2E25 airplanes	
2018-14-04		Airbus	A330, A340 airplanes	
2018-14-05		Bombardier, Inc.	BD-100-1A10 airplanes	
2018-14-08		A 2016-11-03	The Boeing Company	777-200LR series airplanes
2018-14-09		Airbus	A318, A319, A320, A321 airplanes	
2018-14-11		ATR-GIE Avions de Transport Régional	ATR72-101, -102, -201, -202, -211, -212, and -212A airplanes	

Biweekly 2018-16

2018-07-04		The Boeing Company	DC-9-81 (MD-81), DC-9-82 (MD-82), DC-9-83 (MD-83), DC-9-87 (MD-87), MD-88, and MD-90-30 airplanes
2018-13-07		Rolls-Royce plc	Trent 1000-A, Trent 1000-C, Trent 1000-D, Trent 1000-E, Trent 1000-G, and Trent 1000-H turbofan engines
2018-14-12		General Electric Company	GEnx-1B64, -1B64/P1, -1B64/P2, -1B67, -1B67/P1, -1B67/P2, -1B70, -1B70/75/P1, -1B70/75/P2, -1B70/P1, -1B70/P2, -1B70C/P1, -1B70C/P2, -1B74/75/P1, and -1B74/75/P2 engines
2018-15-01		Rolls-Royce plc	Trent 1000-A, Trent 1000-C, Trent 1000-D, Trent 1000-E, Trent 1000-G, Trent 1000-H, Trent 1000-A2, Trent 1000-C2, Trent 1000-D2, Trent 1000-E2, Trent 1000-G2, Trent 1000-H2, Trent 1000-J2, Trent 1000-K2, and Trent 1000-L2 engines
2018-15-03		The Boeing Company	787 series airplanes
2018-15-05		Airbus SAS	A319-115, -132, and -133 airplanes; and Model A320-214, -216, -232, -233, -251N, and -271N airplanes
2018-16-05		The Boeing Company	757-200, -200PF, -200CB, and -300 series airplanes
2018-16-07		General Electric Company	GEnx-1B54, -1B58, -1B64, -1B67, -1B70, -1B54/P1, -1B58/P1, -1B64/P1, -1B67/P1, -1B70/P1, -1B54/P2, -1B58/P2, -1B64/P2, -1B67/P2, -1B70/P2, -1B70C/P1, -1B70/72/P1, -1B70/75/P1, -1B74/75/P1, -1B75/P1, -1B70C/P2, -1B70/72/P2, -1B70/75/P2, -1B74/75/P2, -1B75/P2, -1B76/P2, -1B76A/P2, -1B78/P2, -2B67, -2B67B, and -2B67/P turbofan engines

Biweekly 2018-17

2018-16-02		Airbus SAS	A318, A319, A320, and A321 airplanes
2018-16-03		Airbus SAS	A319-133 and A321-232 airplanes
2018-16-04		Airbus SAS	A318, A319, A320, and A321 airplanes
2018-16-06		The Boeing Company	747-100, -100B, -100B SUD, -200B, -200C, -200F, -300, -400, -400D, 747SP, and 747SR series; 747-8 airplanes
2018-16-12		Airbus	A319, A320, and A321 airplanes
2018-17-02		Bombardier, Inc.	CL-600-1A11, -2A12, -2B16 airplanes
2018-17-03		The Boeing Company	787-8 and 787-9 airplanes
2018-17-04		Roll-Royce Corporation	AE 2100D2A, AE 2100D3 turboprop engines; AE 3007A2 turbofan engines
2018-17-05		Airbus SAS	A350-941 and -1041 airplanes
2018-17-06		Fokker Services B.V.	F28 Mark 0070 and 0100 airplanes
2018-17-07	R 2017-24-01	ATR-GIE Avions de Transport Régional	ATR42-500 and ATR72-212A airplanes

Biweekly 2018-18

2018-14-10	R 2017-12-03	Pratt & Whitney Division	PW2037, PW2037M, and PW2040 turbofan engines
2018-15-04		General Electric Company	CF6-80 series engines
2018-16-10		GE Aviation Czech s.r.o.	H80-200 turboprop engines
2018-17-09		Bombardier, Inc.	DHC-8-400, -401, and -402 airplanes
2018-17-10		R 2017-15-17	Airbus SAS

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2018-17-16		Airbus SAS	A300, A310 airplanes
2018-17-17		Bombardier, Inc.	DHC-8-400, -401, and -402 airplanes
2018-17-18	R 2015-02-17	Airbus SAS	A330 airplanes
2018-17-19		Airbus SAS	A318, A319, A320, A321 airplanes
2018-17-20		The Boeing Company	727, 727C, 727-100, 727-100C, 727-200, and 727-200F series airplanes
2018-17-21		Airbus SAS	A318, A319, A320, A321 airplanes
2018-17-22		Airbus SAS	A319-115 and -132, and A320-214, -216, -232, and -233 airplanes
2018-17-23		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2018-18-04		Airbus SAS	A350-941 and -1041 airplanes
2018-18-05		ATR-GIE Avions de Transport Régional	ATR42-200, -300, and -320 airplanes
Biweekly 2018-19			
2018-17-12		General Electric Company	GE90-76B, GE90-77B, GE90-85B, GE90-90B, and GE90-94B turbofan engines
2018-17-13		Rolls-Royce Deutschland Ltd & Co KG	Tay 620-15 turbofan engines
2018-17-24		Airbus SAS	A350-941 airplanes
2018-17-25		Airbus SAS	A350-941 and -1041 airplanes
2018-18-03		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2018-18-06	R 2013-02-04	Rolls-Royce plc	RB211-Trent 970-84, RB211-Trent 970B-84, RB211-Trent 972-84, RB211-Trent 972B-84, RB211-Trent 977-84, RB211-Trent 977B-84, and RB211-Trent 980-84 turbofan engines
2018-18-07		The Boeing Company	757-200, -200PF, -200CB, and -300 series airplanes
2018-18-08		Airbus SAS	A330, A340 airplanes
2018-18-09		Airbus Defense and Space S.A.	CN-235, CN-235-100, CN-235-200, CN-235-300, and C-295 airplanes
2018-18-10		Airbus Defense and Space S.A.	CN-235, CN-235-100, CN-235-200, CN-235-300, and C-295 airplanes
2018-18-13		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2018-18-14		Rolls-Royce Deutschland Ltd & Co KG	BR700-710A2-20, BR700-710C4-11 turbofan engines
2018-18-16	R 2018-12-08	Airbus SAS	A330, A340 airplanes
2018-18-17	R 2016-13-06	Saab AB, Saab Aeronautics	340A (SAAB/SF340A), 340B airplanes
Biweekly 2018-20			
2018-16-09		The Boeing Company Airplanes	737-100, -200, -200C, -300, -400, and -500
2018-16-13		Zodiac Seats France	Note: This AD was inadvertently left out of BW 2018-17
2018-18-15		Rolls-Royce plc	537-Series Cabin Attendant Seats
2018-18-18		Airbus SAS	RB211-Trent 875-17, 877-17, 884-17, 884B-17, 892-17, 892B-17 and 895-17 turbofan engines
2018-18-19		Airbus SAS	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, and B4-203 airplanes
2018-18-20		Airbus SAS	A300 and A310 airplanes
2018-18-21		Airbus SAS	A300 and A310 airplanes
2018-19-02		Airbus Defense and Space S.A.	A300 and A310 airplanes
2018-19-03		Fokker Services B.V.	C-212-CB, C-212-CC, C-212-CD, C-212-CE, and C-212-DF airplanes
2018-19-04		Learjet, Inc.	F28 Mark 0070 and 0100 airplanes
2018-19-05		Dassault Aviation	28, 29, 31, 31A, 35, 35A, 36, 36A, 55, 55B, 55C, and 60 airplanes
2018-19-12	R 2015-17-04	Bombardier, Inc.	MYSTERE-FALCON 900 airplanes
2018-19-13		328 Support Services GmbH	CL-600-2C10, -2D15, and -2D24 airplanes
2018-19-14		Dassault Aviation	328-100 and -300 airplanes
2018-19-17		Airbus SAS	FALCON 2000 and FALCON 2000EX airplanes
2018-19-19		Airbus SAS	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, and B4-203 airplanes
2018-19-20	R 2010-25-06	The Boeing Company	A350-941 airplanes
			737-200, -300, -400, and -500 series airplanes

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2018-19-21		The Boeing Company	707-100 long body, -200, -100B long body, -100B short body, -300, -300B, -300C, and -400 series; 720 and 720B series airplanes
2018-19-25		Dassault Aviation	FALCON 2000 airplanes
2018-19-28		Embraer S.A.	ERJ 190-100 ECJ, -100 STD, -100 LR, and -100 IGW; and Model ERJ 190-200 STD, -200 LR, and -200 IGW airplanes
2018-19-30		BAE Systems (Operations) Limited	4101 airplanes
2018-19-31		Airbus SAS	A310-203, -204, -221, -222, -304, -322, -324, and -325 airplanes
2018-19-32		The Boeing Company	707-100 Long Body, -200, -100B Long Body, and -100B Short Body; 707-300, -300B, -300C, and -400; and 720 and 720B series airplanes
2018-19-33		Airbus SAS	A300 B4-601, B4-603, B4-620, B4-622, B4-605R, B4-622R, F4-605R, F4-622R, and C4-605R Variant F airplanes
2018-20-02	R 98-18-24	Airbus SAS	A320-211 and A320-231 airplanes
2018-20-04		Gulfstream Aerospace Corporation	GVI airplanes
2018-20-05		The Boeing Company	727C, 727-100, 727-100C, 727-200, and 727-200F series airplanes
Biweekly 2018-21			
2018-17-14		General Electric Company	CF34-8E turbofan engines
2018-18-01	R 2018-10-11	CFM International S.A.	CFM56-7B engines
2018-19-06		Dassault Aviation	FALCON 900EX airplanes
2018-19-07		Airbus SAS	A300, A310 airplanes
2018-19-15		GEVEN S.p.A.	Type D1-02 and D1-03 in-arm table, standard, and last row seats
2018-19-16		CFM International S.A.	CFM LEAP-1A23, -1A24, -1A24E1, -1A26, -1A26E1, -1A26CJ, -1A29, -1A29CJ, -1A30, -1A32, -1A33, -1A33B2, and -1A35A turbofan engines
2018-19-18		Airbus SAS	A300 B4-603, A300 B4-620, A300 B4-622, A300 B4-605R, A300 B4-622R, A300 C4-605R Variant F, and A300 F4-605R airplanes
2018-19-22		General Electric Company	CF34-10A16, CF34-10E2A1, CF34-10E5, CF34-10E5A1, CF34-10E6, CF34-10E6A1, CF34-10E7, and CF34-10E7-B turbofan engines
2018-19-23	R 2013-01-02	The Boeing Company	747 and 757 airplanes
2018-19-24		BAE Systems (Operations) Limited	4101 airplanes
2018-19-26		Dassault Aviation	MYSTERE-FALCON 200 airplanes
2018-19-27		Dassault Aviation	FALCON 2000EX airplanes
2018-19-29		Airbus SAS	A330 and A340 airplanes
2018-20-06	R 2016-25-03	Airbus SAS	A300 F4-605R and A300 F4-622R airplanes
2018-20-07		Dassault Aviation	MYSTERE-FALCON 50 airplanes
2018-20-08		Airbus SAS	A318, A319, A320, and A321 airplanes
2018-20-10		Airbus SAS	A350-941 airplanes
2018-20-13		The Boeing Company	737 (see AD), 757, and 767 airplanes
Biweekly 2018-22			
2018-20-11		Bombardier, Inc.	DHC-8-301, -311, and -315 airplanes
2018-20-12		Bombardier, Inc.	DHC-8-102, -103, -106, -201, -202, -301, -311, and -315 airplanes
2018-20-13		The Boeing Company	737, 757, 767 series airplanes (see AD)
2018-20-14		ATR-GIE Avions de Transport Régional	ATR42-500 airplanes
2018-20-15	R 2015-09-07	The Boeing Company	787-8 and 787-9 airplanes
2018-20-16	R 2013-11-12	Bombardier, Inc.	BD-100-1A10 airplanes
2018-20-17	R 2012-22-10	Bombardier, Inc.	CL-600-2C10, -2D15, -2D24, -2E25 airplanes
2018-20-18		Bombardier, Inc.	DHC-8-400, -401, and -402 airplanes
2018-20-19	R 2017-16-07	Airbus SAS	A330, A340 airplanes
2018-20-20		Bombardier, Inc.	BD-700-1A10 and BD-700-1A11 airplanes
2018-20-21		Bombardier, Inc.	CL-600-2B16 (CL-604 Variants) airplanes

LARGE AIRCRAFT

AD No.	Information	Manufacturer	Applicability
Information Key: E – Emergency; COR – Correction; S – Supersedes; R – Replaces, A – Affects			
2018-20-22		General Electric Company	GE90-110B1, GE90-113B, and GE90-115B turbofan engines
2018-20-23	R 2017-07-04	General Electric Company	GE90-110B1 and GE90-115B turbofan engines
2018-20-24		The Boeing Company	737-600, -700, -700C, -800, -900, and -900ER series airplanes
2018-21-01	R 2017-20-06	Honeywell International Inc.	AS907-1-1A turbofan engines
2018-21-03		Bombardier, Inc.	BD-700-1A10 and BD-700-1A11 airplanes
2018-21-05		Airbus SAS	A319-131, A319-132, A319-133, A320-231, A320-232, A320-233, A321-131, A321-231, and A321-232 airplanes
2018-21-07		Airbus SAS	A330 airplanes
2018-21-08		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2018-21-09	R 2006-07-26	ATR-GIE Avions de Transport Régional	ATR42-200, -300, -320, and -500 airplanes
2018-22-03	R 2016-24-03	Bombardier, Inc.	DHC-8-400, -401 and -402 airplanes
2018-22-04	R 2017-01-02	The Boeing Company	787 series airplanes
Biweekly 2018-23			
2018-21-10		International Aero Engines	PW1133G-JM, PW1133GA-JM, PW1130G-JM, PW1127G-JM, PW1127GA-JM, PW1127G1-JM, PW1124G-JM, PW1124G1-JM, and PW1122G-JM turbofan engines
2018-21-11		Pratt & Whitney Division	PW4074D, PW4077D, PW4084D, PW4090, and PW4090-3 turbofan engines
2018-22-02		International Aero Engines	PW1133G-JM, PW1133GA-JM, PW1130G-JM, PW1127G-JM, PW1127GA-JM, PW1127G1-JM, PW1124G-JM, PW1124G1-JM, and PW1122G-JM turbofan engines
2018-22-05		Engine Alliance	GP7270, GP7272, and GP7277 turbofan engines
2018-22-06		Pratt & Whitney	PW2037, PW2037M, and PW2040 turbofan engines
2018-22-08		Bombardier, Inc.	BD-700-1A10 and BD-700-1A11 airplanes
2018-22-09		The Boeing Company	787 series airplanes
2018-22-10	R 2016-04-16	The Boeing Company	DC-10-10, DC-10-10F, DC-10-15, DC-10-30, DC-10-30F (KC-10A and KDC-10), DC-10-40, and DC-10-40F; MD-10-10F, MD-10-30F, MD-11, and MD-11F airplanes
2018-22-12		Bombardier, Inc	CL-600-2C10, -2D15, -2D24, -2E25 airplanes
2018-22-13		Airbus SAS	A350-941 and -1041 airplanes
2018-23-03		Airbus SAS	A318, A319, A320, A321 airplanes
2018-23-05		Airbus SAS	A350-941, A350-1041 airplanes
2018-23-51		The Boeing Company	737-8 and -9 airplanes
Biweekly 2018-24			
2018-20-11		Bombardier, Inc.	DHC-8-301, -311, and -315 airplanes
2018-23-01		Zodiac Seats France	Cabin Attendant Seats, 536 Series
2018-23-02		Airbus SAS	A318, A319, A320, and A321 airplanes
2018-23-07		Airbus SAS	A350-941 airplanes
2018-23-09	R 2016-13-16	The Boeing Company	737-600, -700, -700C, -800, -900, and 900ER series airplanes
2018-23-10		Airbus SAS	A350-941 airplanes
2018-23-11		Airbus SAS	A319, A320, and A321 airplanes
2018-23-12		Zodiac Aero Evacuation Systems	Fusible plugs installed on emergency evacuation equipment
2018-23-15		Airbus SAS	A330 and A340 airplanes



2018-20-11 Bombardier, Inc.: Amendment 39-19445; Docket No. FAA-2018-0586; Product Identifier 2017-NM-151-AD.

(a) Effective Date

This AD is effective November 23, 2018.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Bombardier, Inc., Model DHC-8-301, -311, and -315 airplanes, certificated in any category, serial numbers 100 through 672 inclusive.

(d) Subject

Air Transport Association (ATA) of America Code 52, Doors.

(e) Reason

This AD was prompted by reports indicating that the forward right-hand type I emergency exit door could not be opened during maintenance. An investigation determined that the exit door handle was jammed due to corroded center and lower shaft ball bearings. We are issuing this AD to address corrosion of the emergency exit door ball bearings, which could result in the inability to open the emergency exit door during an emergency evacuation and consequently impede airplane egress.

(f) Compliance

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

(g) Revision of Maintenance or Inspection Program

Within 60 days after November 23, 2018 (the effective date of this AD): Revise the maintenance or inspection program, as applicable, to incorporate de Havilland Inc. Dash 8 Series 300 Maintenance Task Card Task Number 5220/12 (“Servicing of Forward RH Emergency Exit Mechanisms”), dated March 15, 2017; and Temporary Revision 52-042, dated April 10, 2018, to the DHC-8-300 Aircraft Maintenance Manual (AMM). The initial compliance time for doing the task is at the time specified in de Havilland Inc. Dash 8 Series 300 Maintenance Task Card Task Number 5220/12 (“Servicing of Forward RH Emergency Exit Mechanisms”), dated March 15, 2017, or within 60 days after November 23, 2018, whichever occurs later.

(h) Inspection and Replacement

Within 5,000 flight hours or 36 months, whichever occurs first, after November 23, 2018 (the effective date of this AD): Do a detailed inspection of all ball bearings of the forward right-hand type I emergency exit for corrosion, seal damage, and loss of lubricant; replace bearings as applicable; and apply corrosion inhibiting compound (CIC); in accordance with the Accomplishment Instructions of Bombardier Service Bulletin 8-52-65, dated July 26, 2017. Do all applicable replacements before further flight.

(i) No Alternative Actions or Intervals

After the maintenance or inspection program has been revised as required by paragraph (g) of this AD, no alternative actions (e.g., inspections) or intervals may be used unless the actions and intervals are approved as an alternative method of compliance (AMOC) in accordance with the procedures specified in paragraph (j)(1) of this AD.

(j) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, New York ACO 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 ATTN: Program Manager, Continuing Operational Safety, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7300; fax 516-794-5531. 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.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, New York ACO Branch, FAA; or Transport Canada Civil Aviation (TCCA); or Bombardier, Inc.'s TCCA Design Approval Organization (DAO). If approved by the DAO, the approval must include the DAO-authorized signature.

(k) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) Canadian Airworthiness Directive CF-2017-30, dated August 30, 2017, for related information. This MCAI may be found in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0586.

(2) For more information about this AD, contact Darren Gassetto, Aerospace Engineer, Mechanical Systems and Admin Services Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7323; fax 516-794-5531; email 9-avs-nyaco-cos@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.

(3) The following service information was approved for IBR on November 23, 2018 (83 FR 52754, October 18, 2018).

(i) Bombardier Service Bulletin 8-52-65, dated July 26, 2017.

(ii) de Havilland Inc. Dash 8 Series 300 Maintenance Task Card Task Number 5220/12 (“Servicing of Forward RH Emergency Exit Mechanisms”), dated March 15, 2017.

(iii) Temporary Revision (TR) 52-042, dated April 10, 2018, to the DHC-8-300 Aircraft Maintenance Manual (AMM).

(4) For service information identified in this AD, contact Bombardier, Inc. Q-Series Technical Help Desk, 123 Garratt Boulevard, Toronto, Ontario M3K 1Y5, Canada; telephone 416-375-4000; fax 416-375-4539; email thd.qseries@aero.bombardier.com; internet <http://www.bombardier.com>.

(5) You may view this service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

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

Issued in Des Moines, Washington, on November 8, 2018.

Chris Spangenberg,
Acting Director, System Oversight Division,
Aircraft Certification Service.



2018-23-01 Zodiac Seats France (formerly SICMA Aero Seat): Amendment 39-19487; Docket No. FAA-2017-0632; Product Identifier 2017-NE-16-AD.

(a) Effective Date

This AD is effective December 28, 2018.

(b) Affected ADs

None.

(c) Applicability

(1) This AD applies to all Zodiac Seats France Cabin Attendant Seats, 536 Series, part numbers (P/N) 53600, all dash numbers, and all serial numbers, with seat pan P/N F0433453, installed.

(2) These appliances are installed on, but not limited to, ATR 42 and ATR 72 airplanes of U.S. registry.

(d) Subject

Joint Aircraft System Component (JASC) Code 2500, Cabin Equipment/Furnishings.

(e) Unsafe Condition

This AD was prompted by cracks found in a highly concentrated stress area of the seat pan hinges. We are issuing this AD to prevent failure of affected seats. The unsafe condition, if not addressed, could result in injury to the seat occupants.

(f) Compliance

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

(g) Required Actions

(1) Before exceeding 2,500 flight cycles (FCs), or within 100 FCs after the effective date of this AD, whichever occurs later, inspect the seat pan structure in both deployed and stowed positions using paragraph 2.A., Accomplishment Instructions, of Zodiac Seats France Service Bulletin (SB) No. 536-25-003, Rev. 3, dated June 2, 2017.

(2) If cracks are found, before the next flight:

(i) Replace seat pan with reinforced seat pan, P/N F0511530, using paragraph 2.B., Accomplishment Instructions, of Zodiac Seats France SB No. 536-25-003, Rev. 3, dated June 2, 2017.

(ii) Re-mark the seat using paragraph 2.C., Accomplishment Instructions, of Zodiac Seats France SB No. 536-25-003, Rev. 3, dated June 2, 2017.

(3) If no cracks are found, do the following:

(i) Re-mark the seat using paragraph 2.C., Accomplishment Instructions, of Zodiac Seats France SB No. 536-25-003, Rev. 3, dated June 2, 2017.

(ii) Reinspect the seat pan every 100 FCs since last inspection, or replace seat pan with reinforced seat pan, P/N F0511530, using paragraph 2.B., Accomplishment

Instructions, of Zodiac Seats France SB No. 536-25-003, Rev. 3, dated June 2, 2017.

(4) After the effective date of this AD, and until compliance with this AD is accomplished, stow and secure an affected attendant seat in the retracted position to prevent occupancy, in accordance with the provisions and limitations of the applicable Master Minimum Equipment List item.

(h) Optional Terminating Action

Installation of a reinforced seat pan, P/N F0511530, using paragraph 2.B., Accomplishment Instructions, of Zodiac Seats France SB No. 536-25-003, Rev. 3, dated June 2, 2017, is terminating action to this AD.

(i) Credit for Previous Actions

You may take credit for inspections and modifications performed in accordance with Zodiac Seats France SB No. 536-25-003, Rev. 2, dated September 16, 2016, or earlier versions, if you performed these actions before the effective date of this AD.

(j) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Boston ACO 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 ACO Branch, send it to the attention of the person identified in paragraph (k)(1) of this AD. You may email your request to: 9-ane-boston-aco-amocrequests@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

(1) For more information about this AD, contact Dorie Resnik, Aerospace Engineer, Boston ACO Branch, FAA, 1200 District Avenue, Burlington, MA, 01803; phone: 781-238-7693; fax: 781-238-7199; email: dorie.resnik@faa.gov.

(2) Refer to MCAI EASA AD 2017-0001, dated January 6, 2017, for more information. You may examine the MCAI in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating it in Docket No. FAA-2017-0632.

(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 the AD specifies otherwise.

(i) Zodiac Seats France Service Bulletin No. 536-25-003, Rev. 3, dated June 2, 2017.

(ii) [Reserved.]

(3) For Zodiac Seats France service information identified in this AD, contact Zodiac Seats France, Rue Robert Marechal Senior B.P. 69, 36100 Issoudun, France; phone: +33 (0) 2 54 03 39 39; fax: +33 (0) 2 54 03 39 00; email: zs.tac@zodiac aerospace.com; internet: <https://services.zodiac aerospace.com>.

(4) You may view this service information at FAA, Engine & Propeller Standards Branch, 1200 District Avenue, Burlington, MA, 01803. For information on the availability of this material at the FAA, call 781-238-7759.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Burlington, Massachusetts, on November 16, 2018.

Robert J. Ganley,
Manager, Engine and Propeller Standards Branch,
Aircraft Certification Service.



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www.faa.gov/aircraft/safety/alerts/
www.gpoaccess.gov/fr/advanced.html

2018-23-02 Airbus SAS: Amendment 39-19488; Docket No. FAA-2018-0298; Product Identifier 2017-NM-179-AD.

(a) Effective Date

This AD is effective December 28, 2018.

(b) Affected ADs

This AD affects AD 2007-06-02, Amendment 39-14983 (72 FR 12072, March 15, 2007) (“AD 2007-06-02”); and AD 2008-09-16, Amendment 39-15497 (73 FR 24160, May 2, 2008) (“AD 2008-09-16”).

(c) Applicability

This AD applies to Airbus SAS Model A318-111, A318-112, A318-121, and A318-122 airplanes; Model A319-111, A319-112, A319-113, A319-114, A319-115, A319-131, A319-132, and A319-133 airplanes; Model A320-211, A320-212, A320-214, A320-216, A320-231, A320-232, and A320-233 airplanes; and Model A321-111, A321-112, A321-131, A321-211, A321-212, A321-213, A321-231, and A321-232 airplanes; certificated in any category, all manufacturer serial numbers.

(d) Subject

Air Transport Association (ATA) of America Code 27, Flight controls.

(e) Reason

This AD was prompted by reports of missing assembly hardware on the trimmable horizontal stabilizer actuator (THSA). We are issuing this AD to address uncontrolled movement of the horizontal stabilizer as a result of the latent (undetected) failure of the THSA's primary load path and consequent loss of control of the airplane.

(f) Compliance

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

(g) Repetitive Actions: Lower THSA Attachment

Before exceeding 20 months since airplane first flight, or since airplane first flight following last THSA replacement, or within 20 months after the last inspection of the lower THSA attachment as specified in the instructions of Airbus Service Bulletin A320-27-1164, Revision 02 up to Revision 09, whichever occurs latest, do the actions specified in paragraphs (g)(1), (g)(2), and (g)(3) of this AD concurrently, in accordance with the Accomplishment Instructions of Airbus Service Bulletin

A320-27-1164, Revision 14, dated January 16, 2018. Repeat the actions thereafter at intervals not to exceed 20 months.

(1) Check the clearance between the secondary nut trunnions and the junction plates at the lower THSA attachment.

(2) Do a general visual inspection of the lower THSA attachment for correct installation of attachment parts.

(3) Do a general visual inspection of the THSA ball screw for dents.

(h) Repetitive Inspections: Upper THSA Attachment

Before exceeding 10 months since airplane first flight, or since airplane first flight following last THSA replacement, or within 10 months after the last inspection of the upper THSA attachment as specified in the instructions of Airbus Service Bulletin A320-27-1164, Revision 02 up to Revision 09, whichever occurs latest, do the actions specified in paragraphs (h)(1) and (h)(2) of this AD concurrently, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A320-27-1164, Revision 14, dated January 16, 2018. Repeat the inspections thereafter at intervals not to exceed 10 months.

(1) Do a general visual inspection of the upper THSA attachment for correct installation, cracks, damage, and metallic particles.

(2) Do a general visual inspection of the upper THSA attachment for correct installation of attachment parts.

(i) Related Investigative and Corrective Actions

If, during any action required by paragraph (g) or (h) of this AD, any discrepancy is detected (e.g., any installation deviation, cracking, damage, metallic particles, or dent is found), before further flight, accomplish all applicable related investigative and corrective actions in accordance with the Accomplishment Instructions of Airbus Service Bulletin A320-27-1164, Revision 14, dated January 16, 2018; except as required by paragraph (o)(1) of this AD.

(j) Reporting Requirements for Actions Required by Paragraphs (g) and (h) of This AD

In case of any findings during any action required by paragraph (g) or (h) of this AD, report the inspection results to Airbus SAS using the applicable "Inspection Reporting Sheet" of Airbus Service Bulletin A320-27-1164, Revision 14, dated January 16, 2018, at the applicable time specified in paragraph (j)(1) or (j)(2) of this AD. If operators have reported findings as part of obtaining any corrective actions approved by the EASA Design Organization Approval (DOA), operators are not required to report those findings as specified in this paragraph.

(1) If the inspection or check was done on or after the effective date of this AD: Submit the report within 30 days after the inspection.

(2) If the inspection or check was done before the effective date of this AD: Submit the report within 30 days after the effective date of this AD.

(k) One-Time Inspection and Replacement

For airplanes on which the THSA has been replaced or reinstalled since the date of issuance of the original certificate of airworthiness, or the date of issuance of the original export certificate of airworthiness: Within 6 months after the effective date of this AD, accomplish a detailed inspection of the THSA lower attachment gap clearances, in accordance with paragraphs 4.2.2 and 4.2.3 of Airbus Alert Operators Transmission (AOT) A27N010-17, Revision 01, dated October 17, 2017, including AOT Appendix_A27N010-17. If the measured gap is less than 0.5 mm, before further flight, replace the THSA, including doing an inspection of the THSA parts to confirm the bushing is

missing and applicable corrective actions, in accordance with the instructions of Airbus AOT A27N010-17, Revision 01, dated October 17, 2017, including AOT Appendix_A27N010-17; and United Technologies Corporation (UTC) Aerospace Systems Repair Instructions RF-DSC-1361-17, Version 00, including Appendix A, dated May 24, 2017, as applicable, except as required by paragraph (o)(2) of this AD.

(l) Definition of Groups

For the purpose of this AD: Group 1 airplanes are those that, on the effective date of this AD, do not have the electrical load sensing device (ELSD) activated. Group 2 airplanes are those that, on the effective date of this AD, have the ELSD activated.

(m) Activation and Concurrent Modification

For Group 1 airplanes (see paragraph (l) of this AD): Do the actions specified in paragraphs (m)(1) and (m)(2) of this AD.

(1) Within 4 years after the effective date of this AD, activate the ELSD of the THSA on the airplane, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A320-27-1248, Revision 01, dated April 16, 2018.

(2) Concurrently with or before the activation of the ELSD required by paragraph (m)(1) of this AD, modify the airplane, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A320-27-1245, Revision 00, dated March 6, 2017; or Airbus Service Bulletin A320-27-1246, Revision 01, dated November 4, 2016; as applicable.

(n) Concurrent Requirement for Airplanes Equipped With THSAs That do Not Have ELSDs

For an airplane equipped with a THSA having a part number listed in figure 1 to paragraphs (n), (p), and (q) of this AD: Concurrently with or before the activation required by paragraph (m)(1) of this AD, modify the airplane, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A320-27-1247, Revision 00, dated March 6, 2017.

Figure 1 to paragraphs (n), (p), and (q) of this AD: Part Numbers for THSAs without ELSDs

47145-021	47145-140
47145-030	47145-141
47145-031	47145-142
47145-032	47145-143
47145-033	47145-144
47145-034	47145-145
47145-035	47145-146
47145-036	47145-147
47145-037	47145-148
47145-050	47145-150
47145-051	47145-151
47145-052	47145-152
47145-053	47145-153
47145-054	47145-154
47145-055	47145-155
47145-056	47145-156
47145-057	47145-157
47145-121	47145-160
47145-130	47145-161
47145-131	47145-162
47145-132	47145-163
47145-133	47145-164
47145-134	47145-165
47145-135	47145-166
47145-136	47145-167
47145-137	47145-168

(o) Exceptions to Service Information

(1) Where Airbus Service Bulletin A320-27-1164, Revision 14, dated January 16, 2018, specifies to contact Airbus SAS for appropriate action, and specifies that action as “RC” (Required for Compliance): Before further flight, accomplish corrective actions in accordance with the procedures specified in paragraph (v)(2) of this AD.

(2) Where Airbus AOT A27N010-17, Revision 01, dated October 17, 2017, specifies to contact Airbus SAS for appropriate action: Before further flight, accomplish corrective actions in accordance with the procedures specified in paragraph (v)(2) of this AD.

(p) Parts Installation

Do not install on any airplane a THSA with a part number listed in figure 1 to paragraphs (n), (p), and (q) of this AD and do not deactivate the ELSD at the times specified in paragraph (p)(1) or (p)(2) of this AD, as applicable.

(1) Group 1 airplanes (see paragraph (l) of this AD): After modification of the airplane as required by paragraph (m)(1) of this AD.

(2) Group 2 airplanes (see paragraph (l) of this AD): From the effective date of this AD.

(q) Method of Compliance

An airplane on which Airbus SAS Modification 155955 has been embodied in production is considered compliant with paragraphs (m)(1), (m)(2), and (n) of this AD, provided that it is determined that no THSA with a part number listed in figure 1 to paragraphs (n), (p), and (q) of this AD is installed on that airplane, and that the ELSD remains activated. A review of airplane maintenance records is acceptable to make this determination, provided those records can be relied upon for that purpose.

(r) Airplanes Not Affected by the Requirements of Paragraph (k) of This AD

The inspection required by paragraph (k) of this AD is not required for airplanes on which the THSA has been installed, as specified in the instructions of Airbus A320 Airplane Maintenance Manual (AMM) 27-44-51-400-001, dated May 2017, or subsequent.

(s) Credit for Previous Actions

(1) This paragraph provides credit for the initial actions required by paragraphs (g), (h), (i), and (j) of this AD, if those actions were performed before the effective date of this AD using Airbus Service Bulletin A320-27-1164, Revision 10, dated March 27, 2014; Revision 11, dated December 15, 2014; Revision 12, dated March 23, 2016; or Revision 13, dated August 8, 2016.

(2) This paragraph provides credit for actions required by paragraph (k) of this AD, if those actions were performed before the effective date of this AD using Airbus AOT A27N010-17, dated March 27, 2017.

(3) This paragraph provides credit for actions required by paragraph (m)(1) of this AD, if those actions were performed before the effective date of this AD using Airbus Service Bulletin A320-27-1248, Revision 00, dated March 6, 2017.

(4) This paragraph provides credit for actions required by paragraph (m)(2) of this AD, if those actions were performed before the effective date of this AD using Airbus Service Bulletin A320-27-1246, dated March 20, 2015.

(t) No Terminating Action for Repetitive Inspections in This AD

Accomplishment on an airplane of the one-time inspection and replacement, as applicable, specified in paragraph (k) of this AD and the modifications specified in paragraphs (m)(1), (m)(2), and (n) of this AD, as applicable, do not constitute terminating action for the repetitive inspections required by paragraphs (g) and (h) of this AD for that airplane.

(u) Terminating Action for Other FAA ADs

Accomplishing the initial actions required by paragraphs (g) and (h) of this AD, and accomplishing the applicable actions required by paragraphs (i) and (j) of this AD, terminate all requirements of AD 2007-06-02 and AD 2008-09-16.

(v) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Section, Transport Standards 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 International Section, send it to the attention of the person identified in paragraph (x)(2) of this AD. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. 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.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, International Section, Transport Standards Branch, FAA; or the European Aviation Safety Agency (EASA); or Airbus SAS's EASA DOA. If approved by the DOA, the approval must include the DOA-authorized signature.

(3) Paperwork Reduction Act Burden Statement: A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2120-0056. Public reporting for this collection of information is estimated to be approximately 1 hour per response, including the time for reviewing instructions, completing and reviewing the collection of information. All responses to this collection of information are mandatory. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC 20591, Attn: Information Collection Clearance Officer, AES-200.

(4) Required for Compliance (RC): Except as specified in paragraph in (o)(1) of this AD, if any service information contains procedures or tests that are identified as RC, those procedures and tests must be done to comply with this AD; any procedures or tests that are not identified as RC are recommended. Those procedures and tests that are not identified as RC may be deviated from using accepted methods in accordance with the operator's maintenance or inspection program without obtaining approval of an AMOC, provided the procedures and tests identified as RC can be done and the airplane can be put back in an airworthy condition. Any substitutions or changes to procedures or tests identified as RC require approval of an AMOC.

(w) Special Flight Permits

Special flight permits, as described in Section 21.197 and Section 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199), are not allowed.

(x) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA Airworthiness Directive 2017-0237, dated December 4, 2017, for related information. This MCAI may be found in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0298.

(2) For more information about this AD, contact Sanjay Ralhan, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th Street, Des Moines, WA 98198; phone and fax: 206-231-3223.

(3) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (y)(3) and (y)(5) of this AD.

(y) 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) Airbus Alert Operators Transmission (AOT) A27N010-17, Revision 01, dated October 17, 2017, including AOT Appendix_A27N010-17.

(ii) Airbus Service Bulletin A320-27-1164, Revision 14, dated January 16, 2018.

(iii) Airbus Service Bulletin A320-27-1245, Revision 00, dated March 6, 2017.

(iv) Airbus Service Bulletin A320-27-1246, Revision 01, dated November 4, 2016.

(v) Airbus Service Bulletin A320-27-1247, Revision 00, dated March 6, 2017.

(vi) Airbus Service Bulletin A320-27-1248, Revision 01, dated April 16, 2018.

(vii) United Technologies Corporation Aerospace Systems (UTAS) United Technologies Corporation (UTC) Aerospace Systems Repair Instructions RF-DSC-1361-17, Version 00, including Appendix A, dated May 24, 2017.

(3) For Airbus SAS service information identified in this AD, contact Airbus SAS, Airworthiness Office–EIAS, Rond-Point Emile Dewoitine No: 2, 31700 Blagnac Cedex, France; telephone +33 5 61 93 36 96; fax +33 5 61 93 44 51; email account.airworth-eas@airbus.com; internet <http://www.airbus.com>.

(4) For United Technologies Corporation Aerospace Systems service information identified in this AD, contact United Technologies Corporation Aerospace Systems: Goodrich Corporation, Actuation Systems, Stafford Road, Fordhouses, Wolverhampton WV10 7EH, England; phone: +44 (0) 1902 624938; fax: +44 (0) 1902 788100; email: techpubs.wolverhampton@goodrich.com; internet: <http://www.goodrich.com/TechPubs>.

(5) You may view this service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

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

Issued in Des Moines, Washington, on October 24, 2018.

Michael Kaszycki,
Acting Director, System Oversight Division,
Aircraft Certification Service.



2018-23-07 Airbus SAS: Amendment 39-19493; Docket No. FAA-2018-0758; Product Identifier 2018-NM-093-AD.

(a) Effective Date

This AD is effective December 19, 2018.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Airbus SAS Model A350-941 airplanes, certificated in any category, except those on which Airbus modification 110319 or Airbus modification 110348 has been embodied in production.

(d) Subject

Air Transport Association (ATA) of America Code 53, Fuselage.

(e) Reason

This AD was prompted by a review of the Airbus A350 structure design principles database for type definition that revealed that the balancer fitting part, installed on the tail cone, lower section of frame (FR) 103, has several corrosion-resistant stainless steel nuts installed on elementary aluminum parts, and this configuration does not meet the requirements for protection against corrosion. We are issuing this AD to address this condition, which if not corrected, could reduce the structural integrity of the airplane.

(f) Compliance

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

(g) Required Action

Within 72 months since the date of issuance of the original airworthiness certificate or the date of issuance of the original export certificate of airworthiness, apply additional overcoat sealant and elastic varnish to the fastener heads and the anchor nuts of the balancer fitting at FR 103, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A350-53-P024, dated April 3, 2018.

(h) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Section, Transport Standards 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 International Section, send it to the attention of the person identified in paragraph (i)(2) of this AD. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. 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.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, International Section, Transport Standards Branch, FAA; or the European Aviation Safety Agency (EASA); or Airbus SAS's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(3) Required for Compliance (RC): If any service information contains procedures or tests that are identified as RC, those procedures and tests must be done to comply with this AD; any procedures or tests that are not identified as RC are recommended. Those procedures and tests that are not identified as RC may be deviated from using accepted methods in accordance with the operator's maintenance or inspection program without obtaining approval of an AMOC, provided the procedures and tests identified as RC can be done and the airplane can be put back in an airworthy condition. Any substitutions or changes to procedures or tests identified as RC require approval of an AMOC.

(i) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA AD 2018-0123, dated June 4, 2018, for related information. This MCAI may be found in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0758.

(2) For more information about this AD, contact Kathleen Arrigotti, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3218.

(j) Material Incorporated by Reference

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

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

(i) Airbus Service Bulletin A350-53-P024, dated April 3, 2018.

(ii) [Reserved]

(3) For service information identified in this AD, contact Airbus SAS, Airworthiness Office—EAL, Rond-Point Emile Dewoitine No: 2, 31700 Blagnac Cedex, France; telephone +33 5 61 93 36 96; fax +33 5 61 93 45 80; email continued-airworthiness.a350@airbus.com; internet <http://www.airbus.com>.

(4) You may view this service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Des Moines, Washington, on November 2, 2018.
Jeffrey E. Duven,
Director, System Oversight Division,
Aircraft Certification Service.



FAA
Aviation Safety

AIRWORTHINESS DIRECTIVE

www.faa.gov/aircraft/safety/alerts/
www.gpoaccess.gov/fr/advanced.html

2018-23-09 The Boeing Company: Amendment 39-19495; Docket No. FAA-2018-0408; Product Identifier 2017-NM-146-AD.

(a) Effective Date

This AD is effective December 19, 2018.

(b) Affected ADs

This AD replaces AD 2016-13-16, Amendment 39-18581 (81 FR 44503, July 8, 2016) (“AD 2016-13-16”).

(c) Applicability

(1) This AD applies to all The Boeing Company Model 737-600, -700, -700C, -800, -900, and 900ER series airplanes, certificated in any category.

(2) Installation of Supplemental Type Certificate (STC) ST00830SE does not affect the ability to accomplish the actions required by this AD. Therefore, for airplanes on which STC ST00830SE is installed, a “change in product” alternative method of compliance (AMOC) approval request is not necessary to comply with the requirements of 14 CFR 39.17.

(d) Subject

Air Transport Association (ATA) of America Code 55, Stabilizers.

(e) Unsafe Condition

This AD was prompted by reports of a manufacturing oversight, in which a supplier omitted the required protective finish on certain bushings installed in the rear spar upper chord on horizontal stabilizers, which could lead to galvanic corrosion and consequent cracking of the rear spar upper chord. We are issuing this AD to address cracking of the rear spar upper chord, which could result in the failure of the upper chord, consequent departure of the horizontal stabilizer from the airplane, and loss of control of the airplane.

(f) Compliance

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

(g) Required Actions

Except as required by paragraph (h) of this AD: At the applicable times specified in paragraph 1.E., “Compliance,” of Boeing Alert Service Bulletin 737-55A1097, Revision 1, dated September 20, 2017, do all applicable actions identified as “RC” (required for compliance) in, and in accordance

with, the Accomplishment Instructions of Boeing Alert Service Bulletin 737-55A1097, Revision 1, dated September 20, 2017.

(h) Exceptions to Service Information

(1) For purposes of determining compliance with the requirements of this AD: Where Boeing Alert Service Bulletin 737-55A1097, Revision 1, dated September 20, 2017, uses the phrase “the Revision 1 date of this service bulletin,” this AD requires using “the effective date of this AD.”

(2) Where Boeing Alert Service Bulletin 737-55A1097, Revision 1, dated September 20, 2017, specifies contacting Boeing, and specifies that action as RC: This AD requires repair using a method approved in accordance with the procedures specified in paragraph (k) of this AD.

(i) Parts Installation Limitations

As of the effective date of this AD, no person may install a horizontal stabilizer on any airplane, except as specified in paragraphs (i)(1) or (i)(2) of this AD.

(1) A horizontal stabilizer may be installed if the part is inspected in accordance with “Part 2: Horizontal Stabilizer Identification Plate Inspection” of the Accomplishments Instructions of Boeing Alert Service Bulletin 737-55A1097, Revision 1, dated September 20, 2017, and no affected serial number is found.

(2) A horizontal stabilizer may be installed if the part is inspected in accordance with “Part 2: Horizontal Stabilizer Identification Plate Inspection” of the Accomplishments Instructions of Boeing Alert Service Bulletin 737-55A1097, Revision 1, dated September 20, 2017, and an affected serial number is found, provided that the actions specified in paragraphs (i)(2)(i) and (i)(2)(ii) of this AD are done, as applicable.

(i) Initial and repetitive high frequency eddy current (HFEC) inspections, which are part of the required actions specified in paragraph (g) of this AD, are completed within the compliance times specified in paragraph (g) of this AD.

(ii) All applicable corrective actions, which are part of the required actions specified in paragraph (g) of this AD, are done within the compliance times specified in paragraph (g) of this AD.

(j) Credit for Previous Actions

For Groups 1 and 2, Configuration 1 airplanes, as identified in Boeing Alert Service Bulletin 737-55A1097, Revision 1, dated September 20, 2017: 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 Boeing Alert Service Bulletin 737-55A1097, dated July 1, 2015.

(k) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Seattle ACO 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 (l)(1) of this AD. Information may be emailed to: 9-ANM-Seattle-ACO-AMOC-Requests@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.

(3) An AMOC that provides an acceptable level of safety may be used for any repair, modification, or alteration required by this AD if it is approved by the Boeing Commercial Airplanes Organization Designation Authorization (ODA) that has been authorized by the Manager, Seattle

ACO Branch, FAA, to make those findings. To be approved, the repair method, modification deviation, or alteration deviation must meet the certification basis of the airplane, and the approval must specifically refer to this AD.

(4) AMOCs approved previously for AD 2016-13-16 are approved as AMOCs for the corresponding provisions of Boeing Alert Service Bulletin 737-55A1097, Revision 1, dated September 20, 2017, that are required by paragraph (g) of this AD.

(5) Except as required by paragraph (h)(2) of this AD: For service information that contains steps that are labeled as Required for Compliance (RC), the provisions of paragraphs (k)(5)(i) and (k)(5)(ii) of this AD apply.

(i) The steps labeled as RC, including substeps under an RC step and any figures identified in an RC step, must be done to comply with the AD. If a step or substep is labeled "RC Exempt," then the RC requirement is removed from that step or substep. An AMOC is required for any deviations to RC steps, including substeps and identified figures.

(ii) Steps not labeled as RC may be deviated from using accepted methods in accordance with the operator's maintenance or inspection program without obtaining approval of an AMOC, provided the RC steps, including substeps and identified figures, can still be done as specified, and the airplane can be put back in an airworthy condition.

(l) Related Information

(1) For more information about this AD, contact Lu Lu, Aerospace Engineer, Airframe Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206-231-3525; email: lu.lu@faa.gov.

(2) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (m)(3) and (m)(4) of this AD.

(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 the AD specifies otherwise.

(i) Boeing Alert Service Bulletin 737-55A1097, Revision 1, dated September 20, 2017.

(ii) [Reserved]

(3) For service information identified in this AD, contact Boeing Commercial Airplanes, Attention: Contractual & Data Services (C&DS), 2600 Westminister Blvd., MC 110-SK57, Seal Beach, CA 90740-5600; telephone 562-797-1717; internet <https://www.myboeingfleet.com>.

(4) You may view this service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Des Moines, Washington, on November 2, 2018.

Jeffrey E. Duven,
Director, System Oversight Division,
Aircraft Certification Service.



2018-23-10 Airbus SAS: Amendment 39-19496; Docket No. FAA-2018-0637; Product Identifier 2018-NM-091-AD.

(a) Effective Date

This AD is effective December 19, 2018.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Airbus SAS Model A350-941 airplanes, certificated in any category, except those on which Airbus modification (mod) 111435 or mod 111440 has been embodied in production.

(d) Subject

Air Transport Association (ATA) of America Code 38, Water/waste.

(e) Reason

This AD was prompted by leakage of shrouded pipe T-boxes in the potable water system. We are issuing this AD to address the possible leakage of water into the avionics bay. This condition, if not corrected, could lead to the loss of systems/equipment located inside the avionics bay and possible loss of control of the airplane.

(f) Compliance

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

(g) Required Actions

Within 36 months after the effective date of this AD: Replace the affected potable water T-boxes and clamps with new parts in accordance with the Accomplishment Instructions of Airbus Service Bulletin A350-38-P004, dated April 11, 2018.

Note 1 to paragraph (g) of this AD: Airbus Maintenance Procedure (MP) Task A350-A-20-51-64-01001-25BA-A provides additional information for installing and torquing the hardware.

(h) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Section, Transport Standards 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 International Section, send it to the attention of the person identified in paragraph (i)(2) of this AD. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. 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.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, International Section, Transport Standards Branch, FAA; or the European Aviation Safety Agency (EASA); or Airbus SAS's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(3) Required for Compliance (RC): If any service information contains procedures or tests that are identified as RC, those procedures and tests must be done to comply with this AD; any procedures or tests that are not identified as RC are recommended. Those procedures and tests that are not identified as RC may be deviated from using accepted methods in accordance with the operator's maintenance or inspection program without obtaining approval of an AMOC, provided the procedures and tests identified as RC can be done and the airplane can be put back in an airworthy condition. Any substitutions or changes to procedures or tests identified as RC require approval of an AMOC.

(i) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA AD 2018-0111R1, dated May 30, 2018, for related information. This MCAI may be found in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0637.

(2) For more information about this AD, contact Kathleen Arrigotti, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3218.

(3) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (j)(3) and (j)(4) of this AD.

(j) Material Incorporated by Reference

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

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

(i) Airbus Service Bulletin A350-38-P004, dated April 11, 2018.

(ii) [Reserved]

(3) For service information identified in this AD, contact Airbus SAS, Airworthiness Office–EAL, Rond-Point Emile Dewoitine No: 2, 31700 Blagnac Cedex, France; telephone +33 5 61 93 36 96; fax +33 5 61 93 45 80; email continued-airworthiness.a350@airbus.com; internet <http://www.airbus.com>.

(4) You may view this service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Des Moines, Washington, on November 5, 2018.
Chris Spangenberg,
Acting Director, System Oversight Division,
Aircraft Certification Service.



2018-23-11 Airbus SAS: Amendment 39-19497; Docket No. FAA-2018-0297; Product Identifier 2017-NM-181-AD.

(a) Effective Date

This AD is effective December 19, 2018.

(b) Affected ADs

This AD affects AD 2001-15-10, Amendment 39-12344 (66 FR 39413, July 31, 2001) (“AD 2001-15-10”), and AD 2016-06-13, Amendment 39-18444 (81 FR 17365, March 29, 2016) (“AD 2016-06-13”).

(c) Applicability

This AD applies to the airplanes identified in paragraphs (c)(1) through (c)(3) of this AD, certificated in any category, all manufacturer serial numbers, except those on which Airbus Modification 26925 has been embodied in production, which introduces a modified alternate braking system that removes the brake dual distribution valve (BDDV).

- (1) Airbus SAS Model A319-111, -112, -113, -114, -115, -131, -132, and -133 airplanes.
- (2) Airbus SAS Model A320-211, -212, -214, -231, -232, and -233 airplanes.
- (3) Airbus SAS Model A321-111, -112, -131, -211, -212, -213, -231, and -232 airplanes.

(d) Subject

Air Transport Association (ATA) of America Code 32, Landing gear.

(e) Reason

This AD was prompted by investigations that revealed that the cover seal of the brake dual distribution valve (BDDV) was damaged and did not ensure efficient sealing. We are issuing this AD to prevent water ingestion in the BDDV, freezing of the BDDV in flight, and consequent loss of braking system function after landing. These conditions could possibly result in damage to the airplane and injury to occupants.

(f) Compliance

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

(g) Identification and Modification or Replacement

Within 3 months after the effective date of this AD, identify the BDDV part number installed on the airplane. For each affected BDDV part number specified in figure 1 to paragraphs (g) and (h) of this AD, within 3 months after the effective date of this AD, do the actions in paragraph (g)(1),

(g)(2), or (g)(3) of this AD. A review of airplane maintenance records is acceptable to identify the BDDV part number if the part number of the BDDV can be conclusively determined from that review.

Figure 1 to paragraphs (g) and (h) of this AD – Affected BDDV part number

P/N				
A25434005-1	A25434005-100	A25434005-101	A25434006-1	A25434006-100
A25434005-2	A25434005-200	A25434005-201	A25434006-2	A25434006-101
A25434005-3	A25434005-300	A25434005-301	A25434006-3	A25434006-200
A25434005-4	A25434005-400	A25434005-401		

(1) Modify and re-identify the affected BDDV, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A320-32-1203, Revision 02, dated February 9, 2001.

(2) Modify and re-identify the affected BDDV, and do all applicable related investigative and corrective actions, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A320-32-1415, Revision 02, dated December 10, 2015. Do all applicable related investigative and corrective actions before further flight.

(3) Replace the affected BDDV with a BDDV having a part number not specified in figure 1 to paragraphs (g) and (h) of this AD, or replace the old part number with a new part number as specified in figure 2 to paragraphs (g)(3) and (h)(2) of this AD. Do the replacement using a method approved by the Manager, International Section, Transport Standards Branch, FAA; or the European Aviation Safety Agency (EASA); or Airbus SAS's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

Figure 2 to paragraphs (g)(3) and (h)(2) of this AD – BDDV part number re-identification

Old P/N	New P/N
A25434006-3	A25434006-3000
A25434005-101	A25434005-1010
A25434005-201	A25434005-2010
A25434005-301	A25434005-3010
A25434005-401	A25434005-4010
A25434006-101	A25434006-1010

(h) Parts Installation Prohibition

As of the applicable time specified in paragraph (h)(1) or (h)(2) of this AD, no person may install a BDDV having a part number specified in figure 1 to paragraphs (g) and (h) of this AD, on any airplane.

(1) For any airplane that, on the effective date of this AD, has a BDDV installed with a part number specified in figure 1 to paragraphs (g) and (h) of this AD: After modification or replacement of the BDDV, as required by paragraph (g) of this AD.

(2) For any airplane that, on the effective date of this AD, has a BDDV installed or replaced with a part number specified as 'new P/N' in figure 2 to paragraphs (g)(3) and (h)(2) of this AD, or has a BDDV installed or replaced with a part number not specified in figure 1 to paragraphs (g) and (h) of this AD: As of the effective date of this AD.

(i) Terminating Action for Other ADs

(1) Doing the actions in paragraph (g) of this AD terminates the requirements in paragraphs (e) and (f) of AD 2001-15-10 for Model A319, A320 and A321 series airplanes.

(2) Doing the actions in paragraph (g) of this AD terminates all of the requirements of AD 2016-06-13.

(j) Credit for Previous Actions

(1) This paragraph provides credit for actions required by paragraph (g)(1) of this AD, if those actions were performed before the effective date of this AD using the service information in paragraphs (j)(1)(i) or (j)(1)(ii) of this AD.

(i) Airbus Service Bulletin A320-32-1203, dated June 4, 1999, which was incorporated by reference in AD 2001-15-10.

(ii) Airbus Service Bulletin A320-32-1203, Revision 01, dated October 12, 2000.

(2) This paragraph provides credit for actions required by paragraph (g)(2) of this AD, if those actions were performed before the effective date of this AD using the service information in paragraphs (j)(2)(i) or (j)(2)(ii) of this AD.

(i) Airbus Service Bulletin A320-32-1415, dated September 2, 2014, which was incorporated by reference in AD 2016-06-13.

(ii) Airbus Service Bulletin A320-32-1415, Revision 01, dated April 23, 2015.

(k) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Section, Transport Standards 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 International Section, send it to the attention of the person identified in paragraph (l)(2) of this AD. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. 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.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, International Section, Transport Standards Branch, FAA; or the EASA; or Airbus SAS's EASA DOA. If approved by the DOA, the approval must include the DOA-authorized signature.

(3) Required for Compliance (RC): If any service information contains procedures or tests that are identified as RC, those procedures and tests must be done to comply with this AD; any procedures or tests that are not identified as RC are recommended. Those procedures and tests that are not identified as RC may be deviated from using accepted methods in accordance with the operator's maintenance or inspection program without obtaining approval of an AMOC, provided the procedures and tests identified as RC can be done and the airplane can be put back in an airworthy condition. Any substitutions or changes to procedures or tests identified as RC require approval of an AMOC.

(l) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA AD 2017-0119, dated July 11, 2017, for related information. This MCAI may be found in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0297.

(2) For more information about this AD, contact Sanjay Ralhan, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3223.

(3) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (m)(3) and (m)(4) of this AD.

(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) Airbus Service Bulletin A320-32-1203, Revision 02, dated February 9, 2001.

(ii) Airbus Service Bulletin A320-32-1415, Revision 02, dated December 10, 2015.

(3) For service information identified in this AD, contact Airbus SAS, Airworthiness Office–EIAS, Rond-Point Emile Dewoitine No: 2, 31700 Blagnac Cedex, France; telephone +33 5 61 93 36 96; fax +33 5 61 93 44 51; email account.airworth-eas@airbus.com; internet <http://www.airbus.com>.

(4) You may view this service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Des Moines, Washington, on November 5, 2018.

Christopher Spangenberg,
Acting Director, System Oversight Division,
Aircraft Certification Service.



2018-23-12 Zodiac Aero Evacuation Systems (also known as Air Cruisers Company):
Amendment 39-19499; Docket No. FAA-2016-9392; Product Identifier 2016-NM-003-AD.

(a) Effective Date

This AD is effective December 28, 2018.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Zodiac Aero Evacuation Systems (also known as Air Cruisers Company) fusible plugs installed on emergency evacuation equipment identified in the service information specified in paragraphs (c)(1) through (c)(16) of this AD. These affected fusible plugs might be installed on the emergency evacuation equipment of the following manufacturers' airplanes: Airbus, The Boeing Company, BAE Systems (Operations) Limited, and Fokker Services B.V.

- (1) Air Cruisers Service Bulletin 737 103-25-50, dated August 27, 2010.
- (2) Air Cruisers Service Bulletin 757 105-25-80, dated August 27, 2010.
- (3) Air Cruisers Service Bulletin 757 105-25-81, dated August 27, 2010.
- (4) Air Cruisers Service Bulletin 767 106-25-10, Rev. No. 1, dated October 15, 2010.
- (5) Air Cruisers Service Bulletin 777 107-25-29, Rev. No. 1, dated July 8, 2011.
- (6) Air Cruisers Service Bulletin A300/A310 001-25-19, dated August 27, 2010.
- (7) Air Cruisers Service Bulletin A300/A310 003-25-33, dated August 27, 2010.
- (8) Air Cruisers Service Bulletin A310 002-25-08, dated August 27, 2010.
- (9) Air Cruisers Service Bulletin A320 004-25-87, Rev. No. 2, dated January 7, 2011.
- (10) Air Cruisers Service Bulletin A321 005-25-21, dated August 27, 2010.
- (11) Air Cruisers Service Bulletin BAe 146 201-25-23, dated December 10, 2010.
- (12) Air Cruisers Service Bulletin F28 352-25-02, dated December 10, 2010.
- (13) Air Cruisers Service Bulletin F100 351-25-07, dated December 10, 2010.
- (14) Air Cruisers Service Bulletin Liferaft 35-25-79, dated August 27, 2010.
- (15) Air Cruisers Service Bulletin MD11 305-25-35, dated August 27, 2010.
- (16) Air Cruisers Service Bulletin MD80/90/717 304-25-45, dated August 27, 2010.

(d) Subject

Air Transport Association (ATA) of America Code 25, Equipment/furnishings.

(e) Unsafe Condition

This AD was prompted by reports indicating that affected fusible plugs activated (vented gas) below the rated temperature. We are issuing this AD to address fusible plugs that might activate below the rated temperature and render the evacuation system unusable.

(f) Compliance

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

(g) Fusible Plug Identification

Within 42 months after the effective date of this AD, do an inspection to determine if any fusible plug has part number (P/N) B13984-3, stamped with Lot PA-21 or PA-22. A review of the airplane maintenance records is acceptable to make this determination if it can be conclusively determined from that review that a part not having P/N B13984-3, stamped with Lot PA-21 or PA-22, has been installed.

Note 1 to paragraph (g) of this AD: Guidance for performing the inspection specified in paragraph (g) of this AD can be found in applicable service information specified in paragraphs (c)(1) through (c)(16) of this AD and the applicable component maintenance manuals (CMMs) that have incorporated the appropriate Air Cruisers service information.

(h) Replacement of Affected Fusible Plug

If, during the inspection or records review required by paragraph (g) of this AD, it is determined that any fusible plug has part number (P/N) B13984-3, stamped with Lot PA-21 or PA-22: Within 42 months after the effective date of this AD, replace that fusible plug with a serviceable fusible plug P/N B13984-3 that is not stamped with Lot PA-21 or PA-22.

Note 2 to paragraph (h) of this AD: Guidance can be found in the applicable CMM for the replacement. In addition, Air Cruisers Service Information Letter (SIL) 25-246, Rev. No. 1, dated February 21, 2014, provides information regarding affected fusible plugs and guidance on the replacement.

(i) Parts Installation Prohibition

As of the effective date of this AD, no person may install on any airplane any fusible plug having P/N B13984-3, stamped with Lot PA-21 or PA-22.

(j) Alternative Methods of Compliance (AMOCs)

(1) The Manager, New York ACO 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 certification office, send it to ATTN: Program Manager, Continuing Operational Safety, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone: 516-228-7300; fax: 516-794-5531.

(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

(1) For more information about this AD, contact Darren Gassetto, Aerospace Engineer, Mechanical Systems and Admin Services Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7323; fax 516-794-5531; email 9-avs-nyaco-cos@faa.gov.

(2) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (l)(3) and (l)(4) of this AD.

(I) 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 determine parts that are affected by this AD, unless the AD specifies otherwise.

- (i) Air Cruisers Service Bulletin 737 103-25-50, dated August 27, 2010.
- (ii) Air Cruisers Service Bulletin 757 105-25-80, dated August 27, 2010.
- (iii) Air Cruisers Service Bulletin 757 105-25-81, dated August 27, 2010.
- (iv) Air Cruisers Service Bulletin 767 106-25-10, Rev. No. 1, dated October 15, 2010.
- (v) Air Cruisers Service Bulletin 777 107-25-29, Rev. No. 1, dated July 8, 2011.
- (vi) Air Cruisers Service Bulletin A300/A310 001-25-19, dated August 27, 2010.
- (vii) Air Cruisers Service Bulletin A300/A310 003-25-33, dated August 27, 2010.
- (viii) Air Cruisers Service Bulletin A310 002-25-08, dated August 27, 2010.
- (ix) Air Cruisers Service Bulletin A320 004-25-87, Rev. No. 2, dated January 7, 2011.
- (x) Air Cruisers Service Bulletin A321 005-25-21, dated August 27, 2010.
- (xi) Air Cruisers Service Bulletin BAe 146 201-25-23, dated December 10, 2010.
- (xii) Air Cruisers Service Bulletin F28 352-25-02, dated December 10, 2010.
- (xiii) Air Cruisers Service Bulletin F100 351-25-07, dated December 10, 2010.
- (xiv) Air Cruisers Service Bulletin Liferaft 35-25-79, dated August 27, 2010.
- (xv) Air Cruisers Service Bulletin MD11 305-25-35, dated August 27, 2010.
- (xvi) Air Cruisers Service Bulletin MD80/90/717 304-25-45, dated August 27, 2010.

(3) For service information identified in this AD, contact Air Cruisers, 1747 State Route 34, Wall Township, NJ 07727-3935; phone 732-681-3527; email technicalpublications@zodiac aerospace.com.

(4) You may view this service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Des Moines, Washington, on November 8, 2018.

Chris Spangenberg,
Acting Director, System Oversight Division,
Aircraft Certification Service.



2018-23-15 Airbus SAS: Amendment 39-19502; Docket No. FAA-2018-0764; Product Identifier 2018-NM-074-AD.

(a) Effective Date

This AD is effective December 28, 2018.

(b) Affected ADs

This AD affects AD 2016-14-01, Amendment 39-18582 (81 FR 44983, July 12, 2016; corrected August 16, 2016 (81 FR 51097, August 3, 2016)) (“AD 2016-14-01”).

(c) Applicability

This AD applies to the airplanes identified in paragraphs (c)(1), (c)(2), (c)(3), (c)(4), and (c)(5) of this AD, certificated in any category, all manufacturer serial numbers.

- (1) Airbus SAS Model A330-223F and -243F airplanes.
- (2) Airbus SAS Model A330-201, -202, -203, -223, and -243 airplanes.
- (3) Airbus SAS Model A330-301, -302, -303, -321, -322, -323, -341, -342, and -343 airplanes.
- (4) Airbus SAS Model A340-211, -212, -213 airplanes.
- (5) Airbus SAS Model A340-311, -312, and -313 airplanes.

(d) Subject

Air Transport Association (ATA) of America Code 29, Hydraulic Power.

(e) Reason

This AD was prompted by defects found during production tests of ram air turbine (RAT) units; investigation revealed that the defects were due to certain RAT hydraulic pumps having an alternative manufacturing process of the pump pistons. We are issuing this AD to prevent low performance of the pump, which, following a total engine flame-out, or during a total loss of normal electrical power generation, could result in reduced control of the airplane.

(f) Compliance

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

(g) Definitions for This AD

(1) An affected part is a RAT hydraulic pump having part number (P/N) 5916430 and a serial number identified in UTC Aerospace Systems Service Bulletin ERPS06M-29-22, dated March 17, 2017; Revision 1, dated June 27, 2017; or Revision 2, dated May 24, 2018.

(2) A serviceable part is a RAT hydraulic pump identified as acceptable in Airbus Service Bulletin A330-29-3130 or A340-29-4098, both dated May 3, 2017, as applicable.

(3) Group 1 airplanes are airplanes on which an affected part is installed.

(4) Group 2 airplanes are airplanes on which no affected part is installed. A Model A330 airplane on which Airbus SAS Modification 206604 has been embodied in production is a Group 2 airplane, provided that the airplane remains in that configuration.

(h) Replacement and Re-identification for Group 1 Airplanes

(1) Within 18 months after the effective date of this AD, replace any affected RAT hydraulic pump with a serviceable part, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A330-29-3130 or A340-29-4098, both dated May 3, 2017, as applicable.

(2) Concurrently with the replacement required by paragraph (h)(1) of this AD, re-identify the part number of the RAT module, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A330-29-3130 or A340-29-4098, both dated May 3, 2017, as applicable.

Note 1 to paragraph (h)(2) of this AD: Airbus Service Bulletins A330-29-3130 and A340-29-4098, both dated May 3, 2017, provide guidance for re-identification of the part numbers of the RAT hydraulic pumps that are not affected, and the part numbers of the RAT modules that are not equipped with an affected hydraulic pump.

(i) Compliance With AD 2016-14-01

After re-identification of a RAT module on an airplane, as required by paragraph (h)(2) of this AD, the airplane remains compliant with the RAT module re-identification requirements of AD 2016-14-01 for that airplane.

(j) Parts Installation Prohibition

(1) For Group 1 airplanes: After replacement of any affected RAT hydraulic pump as required by paragraph (h)(1) of this AD, do not install any affected RAT hydraulic pump.

(2) For Group 2 airplanes: As of the effective date of this AD, do not install any affected RAT hydraulic pump.

(k) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Section, Transport Standards 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 International Branch, send it to the attention of the person identified in paragraph (l)(2) of this AD. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. 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.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, International Section, Transport Standards Branch, FAA; or The European Aviation Safety Agency (EASA); or Airbus SAS's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(l) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA AD 2018-0062, dated March 20, 2018, for related information. This MCAI may be found in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0764.

(2) For more information about this AD, contact Vladimir Ulyanov, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax: 206-231-3229.

(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) Airbus Service Bulletin A330-29-3130, dated May 3, 2017.

(ii) Airbus Service Bulletin A340-29-4098, dated May 3, 2017.

(iii) UTC Aerospace Systems Service Bulletin ERPS06M-29-22, dated March 17, 2017.

(iv) UTC Aerospace Systems Service Bulletin ERPS06M-29-22, Revision 1, dated June 27, 2017.

(v) UTC Aerospace Systems Service Bulletin ERPS06M-29-22, Revision 2, dated May 24, 2018.

(3) For Airbus SAS service information identified in this AD, contact Airbus SAS, Airworthiness Office–EIAS, Rond-Point Emile Dewoitine No: 2, 31700 Blagnac Cedex, France; telephone +33 5 61 93 36 96; fax +33 5 61 93 44 51; email account.airworth-eas@airbus.com; internet <http://www.airbus.com>.

(4) For UTC Aerospace service information identified in this final rule, contact UTC Aerospace Systems Goodrich Corporation, Actuation Systems, Stafford Road, Fordhouses, Wolverhampton, West Midlands WV10 7EH, England; phone: +44 (0) 1902 624644938; fax: +44 (0) 1902 788100624947; email: techpubs.wolverhampton@goodrich.com; internet: <https://www.customers.utcaerospacesystems.com>.

(5) You may view this service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

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

Issued in Des Moines, Washington, on November 8, 2018.

Chris Spangenberg,
Acting Director, System Oversight Division,
Aircraft Certification Service.