

**FEDERAL AVIATION ADMINISTRATION  
AIRWORTHINESS DIRECTIVES**

**LARGE AIRCRAFT  
BIWEEKLY 2017-23**

*10/30/2017 - 11/12/2017*



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

AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes, R - Replaces			
<b>Biweekly 2017-01</b>			
2016-25-01		The Boeing Company	747-400, 747-400D, and 747-400F series; 757-200, -200PF, -200CB, and -300 series; 767-200, -300, -300F, and -400ER series; 767-300 and -300F series; and 767-300 and -300F series
2016-25-07	R 2012-11-15	The Boeing Company	767-200 and -300 series
2016-25-25		BAE (Operations) Limited	4101
2016-25-26		The Boeing Company	MD-90-30
2016-25-27		Airbus	A300 B4-603, B4-620, B4-622, B4-605R, B4-622R, F4-605R, F4-622R, and C4-605R variant F
2016-25-29		The Boeing Company	767-200 and -300 series
2016-25-30		Airbus	A330-223F and -243F; A330-201, -202, -203, -223, and -243; A330-301, -302, -303, -321, -322, -323, -341, -342, and -343; A340-211, -212, and -213; A340-311, -312, and -313; A340-541; A340-642
2016-25-31		Airbus	A330-201, -202, -203, -223, -223F, -243, -243F, -301, -302, -303, -321, -322, -323, -341, -342, and -343; A340-211, -212, -213, -311, -312, and -313; A340-541; and A340-642
2016-26-02		Bombardier, Inc.	CL-600-2C10 (Regional Jet Series 700, 701, & 702); CL-600-2D15 (Regional Jet Series 705); and CL-600-2D24 (Regional Jet Series 900); CL-600-2E25 (Regional Jet Series 1000)
2016-26-03	R 2013-23-02	Airbus Defense and Space S.A.	CN-235, CN-235-100, CN-235-200, CN-235-300, and C-295
2016-26-05	R 2014-26-08	Airbus	A330-201, -202, -203, -223, -223F -243, -243F, -301, -302, -303, -321, -322, -323, -341, -342, and -343
2017-01-07		Dassault Aviation	FAN JET FALCON; FAN JET FALCON SERIES C, D, E, F, and G; MYSTERE-FALCON 200; MYSTERE-FALCON 20-C5, 20-D5, 20-E5, and 20-F5; MYSTERE-FALCON 50
2017-01-08		Airbus	A330-201, -202, -203, -223, -223F, -243, -243F, -301, -302, -303, -321, -322, -323, -341, -342 and -343 airplanes; and Model A340-211, -212, -213, -311, -312, -313, -541, and -642
2016-25-02		The Boeing Company	787-8 series
<b>Biweekly 2017-02</b>			
2016-26-06		The Boeing Company	787-8 airplanes
2016-26-07		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
2017-01-01	R 2014-05-25	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
2017-01-02		The Boeing Company	787-8 and 787-9 airplanes
2017-01-04		Fokker Services B.V.	F28 Mark 0100 airplanes
2017-01-05		Airbus Defense and Space S.A.	CN-235, CN-235-100, CN-235-200, and CN-235-300 airplanes
2017-01-06		Airbus	A319-115, A319-132, A320-214, A320-232, A321-211, A321-213, and A321-231 airplanes
2017-01-09		The Boeing Company	767-300 and 767-300F series airplanes
2017-01-10		Airbus Defense and Space S.A.	C-212-CB, C-212-CC, C-212-CD, C-212-CE, C-212-CF, C-212-DF, and C-212-DE airplanes
2017-01-11		Airbus	A318, A319, A320, A321 airplanes
<b>Biweekly 2017-03</b>			
No ADs			
<b>Biweekly 2017-04</b>			
2017-01-03	R 2007-11-13	The Boeing Company	717-200 airplanes
2017-01-09	COR	The Boeing Company	767-300 and 767-300F series airplanes
2017-01-11		Airbus	A318, A319, A320, A321 airplanes
2017-02-02	2005-13-30	The Boeing Company	737-100, -200, and -200C series airplanes
2017-02-03		The Boeing Company	767-200, -300, and -400ER series airplanes

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2017-02-04		The Boeing Company	747-200B, 747-300, 747-400, 747-400D, and 747-400F series airplanes
2017-02-05		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2017-02-08		Airbus	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, and B4-203 airplanes; A300 B4-601, B4-603, B4-620, B4-622, B4-605R, B4-622R, F4-605R, F4-622R, and C4-605R Variant F airplanes
2017-02-09		The Boeing Company	747-400, -400D, and -400F series airplanes
2017-02-10	R 2013-19-04	The Boeing Company	737-600, -700, -700C, -800, and -900 series airplanes
2017-03-02	S 2014-16-10	Rolls-Royce plc	RB211 Trent 768-60, 772-60, and 772B-60 turbofan engines
<b>Biweekly 2017-05</b>			
2017-02-01		Rolls-Royce plc	Trent 1000-A, Trent 1000-C, Trent 1000-D, Trent 1000-E, Trent 1000-G, and Trent 1000-H turbofan engines
2017-02-12		The Boeing Company	737-300, -400, and -500 series airplanes
2017-03-03	S 2013-05-18	Rolls-Royce plc	RB211 Trent 553-61, RB211 Trent 553A2-61, RB211 Trent 556-61, RB211 Trent 556A2-61, RB211 Trent 556B-61, RB211 Trent 556B2-61, RB211 Trent 560-61, and RB211 Trent 560A2-61 turbofan engines
2017-03-04	R 2012-16-07	The Boeing Company	737-500 series airplanes
2017-04-01		Gulfstream Aerospace Corporation	GVI airplanes
2017-04-02	R 2014-23-06	Bombardier, Inc.	CL-600-2B19 (Regional Jet Series 100 & 440) airplanes
2017-04-04	R 2012-16-08	BAE Systems (Operations) Limited	BAe 146-100A, -200A, and -300A; Avro 146-RJ70A, 146-RJ85A, and 146-RJ100A airplanes
2017-04-05	R 2011-10-17	Airbus	A300 B2-1A, B2-1C, B4-2C, B2K-3C, B4-103, B2-203, and B4-203 airplanes
2017-04-06		United Instruments, Inc.	5934 series altimeters
2017-04-07		The Boeing Company	757-200, -200PF, -200CB, and -300 series airplanes
2017-04-08	R 2008-13-12 R1	The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2017-04-09	R 2012-22-12	Airbus	A330-243, -243F, -341, -342, and -343 airplanes
2017-04-10		Airbus	A318, A319, A320, A321 airplanes
2017-04-11		The Boeing Company	737-600, -700, -700C, -800, and -900 series airplanes
2017-04-12		Embraer	EMB-135, EMB-145 airplanes
2017-04-13		The Boeing Company	747-8 and 747-8F series airplanes
2017-04-15		Learjet Inc.	36A airplanes
2017-05-01		Airbus	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, and B4-203 airplanes
2017-05-02		Airbus	A318, A319, A320, A321 airplanes
2017-05-06		The Boeing Company	767-200 and -300 series airplanes
2017-05-07		The Boeing Company	777-200 and -300 series airplanes
<b>Biweekly 2017-06</b>			
2017-05-09		CFM International S.A.	CFM56-5B, CFM56-5B/P, CFM56-5B/3, CFM56-5B/2P, CFM56-5B/P1, CFM56-5B/2P1, and CFM56-5B/3B1 engines
2017-05-11	R 2012-08-11	Bombardier, Inc.	DHC-8-400, -401, and -402 airplanes
2017-05-10	R 2015-16-02	Airbus	A330-201, A330-202, A330-203, A330-223, A330-243, A330-223F, A330-243F, A330-301, A330-302, A330-303, A330-321, A330-322, A330-323, A330-341, A330-342, and A330-343 airplanes
2017-05-05		Pratt & Whitney Division	PW4074, PW4074D, PW4077, PW4077D, PW4084D, PW4090, and PW4090-3 turbofan engines
2017-05-12		Airbus	A318-112; A319-111, -112, -115, -132, and -133; A320-214, -232, and -233; A321-211, -212, -213, -231, and -232 airplanes
<b>Biweekly 2017-07</b>			
2017-06-05		The Boeing Company	DC-6, DC-6A, DC-6B, C-118A, R6D-1, and R6D-1Z airplanes
2017-07-03		Airbus	A330-243, -243F, -341, -342, and -343 airplanes
2017-06-04		Airbus	A300 B4-603, B4-620, and B4-622; A300 B4-605R and A300 B4-622R; and A300 C4-605R Variant F airplanes
2017-06-02		Fokker Services B.V.	F28 Mark 0100 airplanes

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2017-06-10		Bombardier, Inc.	DHC-8-400, -401, and -402 airplanes
2017-06-09		The Boeing Company	787-8 airplanes
2017-06-01	R 2017-03-04	The Boeing Company	737-500 series airplanes
2017-06-14		The Boeing Company	737-300, -400, and -500 series airplanes
2017-06-13		Textron Aviation Inc.	680 airplanes
2016-25-25	COR	BAE Systems (Operations) Limited	4101 airplanes
2017-06-12		Airbus	A319-111, -112, -113, -114, -115, -131, -132, and -133; A320-211, -212, -214, -231, -232, and -233 airplanes
<b>Biweekly 2017-08</b>			
2017-08-04	R 2015-03-01	Bombardier, Inc.	CL-600-2B19 (Regional Jet Series 100 & 440) airplanes
2017-07-06		Gulfstream Aerospace Corporation	G-1159B airplanes
2017-08-05	R 2016-13-05	General Electric Company	GE90-76B, GE90-77B, GE90-85B, GE90-90B, and GE90-94B turbofan engines
2017-06-07		Airbus	A330-223F and -243F; A330-201, -202, -203, -223, and -243; A330-301, -302, -303, -321, -322, -323, -341, -342, and -343; A340-211, -212, and -213; A340-311, -312, and -313; A340-541; and A340-642 airplanes
2017-07-03	COR	Airbus	A330-243, -243F, -341, -342, and -343 airplanes
2017-08-01	R 2013-22-19	Gulfstream Aerospace Corporation	GV and GV-SP airplanes
2017-06-08	R 2006-06-09 R 2012-05-08 R 2012-07-08	Embraer S.A.	ERJ 170-100 LR, -100 STD, -100 SE, and -100 SU; ERJ 170-200 LR, -200 SU, and -200 STD airplanes
2017-07-04	R 2013-24-17	General Electric Company	GE90-110B1 and GE90-115B engines
2017-08-02		Bombardier, Inc.	DHC-8-102, -103, and -106; DHC-8-201 and -202; DHC-8-301, -311, and -315 airplanes
2017-07-05		Airbus	A300 airplanes
<b>Biweekly 2017-09</b>			
2017-07-07		Airbus	A330-201, -202, -203, -223, -243, -301, -302, -303, -321, -322, -323, -341, -342, and -343; A340-211, -212, -213, -311, -312, and -313
2017-08-03		Airbus	A318-111, -112, -121, and -122; A319-111, -112, -113, -114, -115, -131, -132, and -133; A320-211, -212, -214, -231, -232, and -233; A321-111, -112, -131, -211, -212, -213, -231, and -232
2017-08-06		General Electric Company	GE90-76B, GE90-85B, GE90-90B, GE90-94B, GE90-110B1, and GE90-115B
2017-08-07		Learjet, Inc.	60
2017-08-08		CFE Company	CFE738-1-1B
2017-08-10	R 2017-01-01	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
2017-08-11	R 2012-04-01	Rolls-Royce plc	RB211-Trent 875-17, 877-17, 884-17, 884B-17, 892-17, 892B-17, and 895-17
2017-08-13		Airbus	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, and B4-203; A300 B4-601, B4-603, B4-620, B4-622, B4-605R, B4-622R, F4-605R, and F4-622R, and A300 C4-605R Variant F; and A310-203, -204, -221, -222, -304, -322, -324, and -325; A300 F4-605R and F4-622R
2017-09-01		Bombardier, Inc.	CL-600-2E25 (Regional Jet Series 1000)
2016-05-02	R 2011-13-11 R 2011-13-11	Airbus	A318-111, -112, -121, and -122; A319-111, -112, -113, -114, -115, -131, -132, and -133; A320-211, -212, -214, -231, -232, and -233; A321-111, -112, -131, -211, -212, -213, -231, and -232
<b>Biweekly 2017-10</b>			
2017-09-03	R 2013-03-12	Dassault Aviation	MYSTERE-FALCON 50 airplanes
2017-09-04		The Boeing Company	707-100 Long Body, -200, -100B Long Body, and -100B Short Body series; 707-300, -300B, -300C, and -400 series; 720 and 720B series airplanes

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2017-09-06 2017-10-01	R 2015-15-03	General Electric Company Dassault Aviation	GENx-1B and GENx-2B turbofan engines FAN JET FALCON and FAN JET FALCON SERIES C, D, E, F, and G; MYSTERE-FALCON 20-C5, 20-D5, 20-E5, and 20-F5 airplanes
<b>Biweekly 2017-11</b>			
2017-09-08		The Boeing Company	787-8 airplanes
2017-09-09		Zodiac Seats California LLC	4157, 4170, and 4184 seating systems
2017-09-10		The Boeing Company	747-400, 747-400D, and 747-400F airplanes
2017-09-11		Bombardier, Inc.	DHC-8-400, -401, and -402 airplanes
2017-09-12		ATR-GIE Avions de Transport Régional	ATR42-500; ATR72-102, -202, -212, and -212A airplanes
2017-10-04		Embraer S.A.	EMB-120, EMB-120ER, EMB-120FC, EMB-120QC, and EMB-120RT airplanes
2017-10-05		Airbus	A300 airlines
2017-10-06		Rolls-Royce plc	RB211 Trent 768-60, RB211 Trent 772-60, and RB211 Trent 772B-60 turbofan engines
2017-10-07		The Boeing Company	737-400 series airplanes
2017-10-08	R 2009-21-01	The Boeing Company	737-300 series airplanes
2017-10-14	S 2014-07-07	British Aerospace Regional Aircraft	HP.137 Jetstream Mk.1, Jetstream Series 200, and Jetstream Series 3101 airplanes
2017-10-15		Airbus Defense and Space S.A.	CN-235, CN-235-100, CN-235-200, CN-235-300, and C-295 airplanes
2017-10-16		The Boeing Company	787-8 and 787-9 airplanes
2017-10-17	R 2014-16-19	Airbus	A330 airplanes
2017-10-18		Airbus	A330-223F, -223, -321, -322, and -323 airplanes
2017-10-21		The Boeing Company	737-300, -400, and -500 series airplanes
2017-10-22		The Boeing Company	737-600, -700, -700C, -800, and -900 series airplanes
2017-10-23		Airbus	A321-111, -112, -131, -211, -212, -213, -231, and -232 airplanes
2017-10-24	R 2011-17-09 R 2012-25-12	Airbus	A330 airplanes
2017-10-25		Rolls-Royce Deutschland Ltd & Co KG	Spey 506-14A, Spey 555-15, Spey 555-15H, Spey 555-15N, and Spey 555-15P turbofan engines
2017-11-01		The Boeing Company	737-100, -200, and -200C series airplanes
2017-11-02		The Boeing Company	MD-90-30 airplanes
2017-11-09	R 2017-08-07	Learjet, Inc.	Model 60 airplanes
<b>Biweekly 2017-12</b>			
2017-10-07		The Boeing Company	737-400 series airplanes
2017-10-08	R 2009-21-01	The Boeing Company	737-300 series airplanes
2017-10-13	S 2015-17-19	Rolls-Royce plc	RB211 Trent 768-60, 772-60, and 772B-60 turbofan engines
2017-10-14	S 2014-07-07	British Aerospace Regional Aircraft	HP.137 Jetstream Mk.1, Jetstream Series 200, and Jetstream Series 3101 airplanes
2017-11-04		The Boeing Company	767-200, -300, and -400ER series airplanes
2017-11-07		Airbus	A318, A319, A320, A321 airplanes
2017-11-09	R 2017-08-07	Learjet, Inc.	60 airplanes
2017-11-11		NavWorx, Inc.	ADS600-B and ADS600-EXP ADS-B Universal Access Transceiver units
2017-11-12		Bombardier, Inc.	BD-100-1A10 airplanes
2017-11-13	R 98-13-14	Airbus	A320-211, -212, and -231 airplanes
2017-11-14	R 2011-26-03	The Boeing Company	777-200, -200LR, -300, -300ER, and 777F airplanes
2017-11-15		General Electric Company	CF6-80C2L1F turbofan engines
2017-12-01		The Boeing Company	767-200 series airplanes
2017-12-02		General Electric Company	GENx-1B64, -1B64/P1, -1B64/P2, -1B67, -1B67/P1, -1B67/P2, -1B70, 1B70/P1, -1B70/P2, -1B70/75/P1, -1B70/75/P2, -1B70C/P1, -1B70C/P2, -1B74/75/P1, -1B74/75/P2, -1B76A/P2 engines
<b>Biweekly 2017-13</b>			
2017-11-05		Roll-Royce Corporation	AE 3007C and 3007C1 turbofan engines
2017-11-06	R 2014-05-32	Pratt & Whitney	PW2037, PW2037D, PW2037M, PW2040, PW2040D, PW2043, PW2143, PW2643, and F117-PW-100 turbofan engines

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2017-12-03		Pratt & Whitney Division	PW2037, PW2037M, and PW2040 turbofan engines
2017-12-05	R 2007-26-04	The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2017-12-06		Airbus	A300, A310 airplanes
2017-12-07		The Boeing Company	737-800, -900, and -900ER series airplanes
2017-12-08	R 2011-24-06	BAE Systems (Operations) Limited	BAe 146-100A, -200A, and -300A; and Avro 146-RJ70A, 146-RJ85A, and 146-RJ100A airplanes
2017-12-09		Embraer	EMB-135ER, -135BJ, -135KE, -135KL, and -135LR; and EMB-145, -145ER, -145MR, -145LR, -145MP, -145EP, and -145XR airplanes
2017-12-10		Airbus	A321-111, -112, -131, -211, -212, -213, -231, and -232 airplanes
2017-12-11		Bombardier, Inc.	BD-100-1A10 airplanes
2017-12-12		The Boeing Company	757-200, -200PF, and -200CB series airplanes
2017-12-13		Airbus	A320-212, A320-214, A320-232 airplanes
2017-12-14		The Boeing Company	757-200 and -200PF series airplanes
2017-12-15		Bombardier, Inc.	CL-600-2E25 (Regional Jet Series 1000) airplanes
2017-13-01		The Boeing Company	737-300, -400, and -500 series airplanes
2017-13-02		Dassault Aviation	FALCON 7X airplanes
<b>Biweekly 2017-14</b>			
2017-10-19		Rolls-Royce plc	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
2017-13-07		Airbus	A319-111, -112, -113, -114, -115, -131, -132, and -133; A320-211, -212, -214, -231, -232, and -233; A321-111, -112, -131, -211, -212, -213, -231, and -232
2017-13-08	R 2015-23-13	Airbus	A318-111, -112, -121, and -122; A319-111, -112, -113, -114, -115, -131, -132, and -133; A320-211, -212, -214, -231, -232, and -233; A321-111, -112, -131, -211, -212, -213, -231, and -232
2017-13-09	R 2014-16-02	Bombardier, Inc.	CL-600-1A11 (CL-600)
2017-13-10	R 2003-18-06	Airbus	A319-131 and -132; A320-231, -232, and -233; A321-131 and -231
2017-13-11		Gulfstream Aerospace Corporation	G-IV
2017-13-12		Airbus	A318-111, -112, -121, and -122; A319-111, -112, -113, -114, -115, -131, -132, and -133; A320-211, -212, -214, -231, -232, and -233; A321-111, -112, -131, -211, -212, -213, -231, and -232
2017-13-13		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series
2017-13-14		The Boeing Company	777-300ER series
2017-14-01	R 2013-10-03	Airbus	A330-201, -202, -203, -223, -223F, -243, -243F, -301, -302, -303, -321, -322, -323, -341, -342, and -343; A340-211, -212, -213, -311, -312, and -313
2017-14-02		Bombardier, Inc.	DHC-8-401 and DHC-8-402
<b>Biweekly 2017-15</b>			
2017-14-07		International Aero Engines AG	V2522-A5, V2524-A5, V2527-A5, V2527E-A5, V2527M-A5, V2530-A5, V2533-A5, V2525-D5, V2528-D5, and V2531-E5 turbofan engines
2017-14-08		CFM International S.A.	CFM56-3, -3B, and -3C turbofan engines
2017-14-09		Fokker Services B.V.	F28 Mark 0100 airplanes
2017-14-10		The Boeing Company	MD-11 and MD-11F airplanes
2017-14-11	R 2007-13-08	Airbus	A318, A319, A320, A321 airplanes
2017-14-13		The Boeing Company	737-600, -700, -700C, -800, -900, and -900ER series airplanes
2017-14-14		Airbus	A321-111, -112, -131, -211, -212, -213, -231, and -232 airplanes
2017-14-16		Bombardier, Inc.	BD-100-1A10 airplanes
2017-15-01		The Boeing Company	777-200, -200LR, -300, -300ER, and 777F series airplanes
2017-15-03	R 2014-08-02	Airbus	A300-B4-601, B4-603, B4-620, and B4-622 airplanes, and A300-B4-605R and B4-622R airplanes
2017-15-04		The Boeing Company	787-8 and 787-9 airplanes

## LARGE AIRCRAFT

AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes, R - Replaces			
<b>Biweekly 2017-16</b>			
2017-13-05	R 2013-13-16	Airbus	A330-201, -202, -203, -223, -243, -301, -302, -303, -321, -322, -323, -341, -342, and -343; A340-211, -212, -213, -311, -312, -313, -541, and -642 airplanes
2017-14-15		Bombardier, Inc.	BD-700-1A10 and BD-700-1A11 airplanes
2017-15-06	R 97-10-05	British Aerospace Regional Aircraft	HP.137 Jetstream Mk.1, Jetstream Series 200 and 3101, and Jetstream Model 3201 airplanes
2017-15-10		The Boeing Company	787-9 airplanes
2017-15-11		Bombardier, Inc.	DHC-8-102, -103, -106, -201, -202, -301, -311, and -315 airplanes
2017-15-12		The Boeing Company	737-300, -400, and -500 series airplanes
2017-15-14		Bombardier, Inc.	CL-215-6B11 (CL-415 Variant) airplanes
2017-15-16		Embraer	EMB-135ER, -135KE, -135KL, -135LR, -145, -145ER, -145MR, -145LR, -145XR, -145MP, and -145EP airplanes
2017-15-17		Airbus	A300 B4-605R and B4-622R; A300 C4-605R Variant F; A300 F4-605R and F4-622R airplanes
<b>Biweekly 2017-17</b>			
2017-14-12	R 2015-22-06	Airbus	318-111, -112, -121, and -122; A319-111, -112, -113, -114, -115, -131, -132, and -133; A320-211, -212, -214, -231, -232, and -233; A321-111, -112, -131, -211, -212, -213, -231, and -232
2017-15-08		Bombardier, Inc.	CL-600-2E25 (Regional Jet Series 1000)
2017-16-05		The Boeing Company	737-600, -700, -700C, -800, -900, and -900ER series
2017-16-06		Airbus	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, and B4-203; A300 B4-601, B4-603, B4-620, and B4-622; A300 B4-605R and B4-622R; A300 F4-605R and F4-622R; A300 C4-605R Variant F; A310-203, -204, -221, -222, -304, -322, -324, and -325
<b>Biweekly 2017-18</b>			
2017-16-09		Dassault Aviation	MYSTERE-FALCON 50 and FALCON 2000
2017-16-10		The Boeing Company	777-200, -200LR, -300, -300ER, and 777F series
2017-16-12	R 2013-19-09 R 2014-25-51	Airbus	A318-111, -112, -121, and -122; A319-111, -112, -113, -114, -115, -131, -132, and -133; A320-211, -212, -214, -231, -232, and -233; A321-111, -112, -131, -211, -212, -213, -231, and -232
2017-16-13		Bombardier, Inc.	CL-600-2B16 (CL-601-3A, CL-601-3R, and CL-604 Variants)
2017-17-02	R 2014-20-09	Bombardier, Inc.	DHC-8-400, -401, and -402
2017-17-04		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series
2017-17-05		Airbus	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, and B4-203; A300 B4-601, B4-603, B4-620, and B4-622; A300 B4-605R and B4-622R; A300 F4-605R and F4-622R; A300 C4-605R Variant F
2017-17-06		The Boeing Company	737-300, -400, and -500 series
2017-17-07		Rolls-Royce plc	Trent XWB-75, Trent XWB-79, Trent XWB-79B, and Trent XWB-84 turbofan engines
2017-17-08		Airbus	A330-201, -202, -203, -223, -223F, -243, -243F, -301, -302, -303, -321, -322, -323, -341, -342, and -343; A340-541 and -642
2017-17-09		The Boeing Company	737-300, -400, and -500 series
2017-17-10	R 2015-23-12	ATR-GIE Avions de Transport Régional	ATR42-200, -300, -320, and -500; and ATR72-101, -201, -102, -202, -211, -212, and -212A
2017-17-11		Dassault Aviation	FALCON 7X
2017-17-12		Airbus	A310-203, -221, -222, -304, -322, -324, and -325
2017-17-13		Bombardier, Inc.	BD-100-1A10
2017-17-14		Saab AB, Saab Aeronautics	340A (SAAB/SF340A)
2017-17-15		Bombardier, Inc.	CL-600-2E25 (Regional Jet Series 1000)
2017-17-16		The Boeing Company	767-200, -300, -300F, and -400ER series
2017-17-18		General Electric Company	CF34-8C1, CF34-8C5, CF34-8C5A1, CF34-8C5B1, CF34-8C5A2, CF34-8C5A3, CF34-8E2, CF34-8E2A1, CF34-8E5, CF34-8E5A1, CF34-8E5A2, CF34-8E6 and CF34-8E6A1; CF34-8C5B1/B, CF34-8C5/B, CF34-8C5A1/B, CF34-

## LARGE AIRCRAFT

AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes, R - Replaces			
2017-17-19		The Boeing Company	8C5A2/B, CF34-8C5/M, CF34-8C5A1/M, CF34-C8C5A2/M, CF34-8C5A3/B, or CF34-8C5B1/M
2017-18-05		The Boeing Company	DC-9-81 (MD-81), DC-9-82 (MD-82), DC-9-83 (MD-83), and DC-9-87 (MD-87) and MD-88
2017-18-06	R 2012-05-03	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
2017-18-07		Dassault Aviation	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
2017-18-08		Dassault Aviation	FALCON 7X FALCON 2000 and FALCON 2000EX
<b>Biweekly 2017-19</b>			
2017-16-07		Airbus	A330 and A340 airplanes
2017-16-08	R 2012-23-09	Embraer S.A.	ERJ 190-100 STD, -100 LR, -100 ECJ, and -100 IGW; and ERJ 190-200 STD, -200 LR, and -200 IGW airplanes
2017-17-17	R 2011-03-08	Viking Air Limited	CL-215-1A10 (CL-215), CL-215-6B11 (CL-215T Variant), CL-215-6B11 (CL-415 Variant) airplanes
2017-18-09		Airbus Defense and Space S.A.	CN-235, CN-235-100, CN-235-200, CN-235-300, and C-295 airplanes
2017-18-12	R 2016-11-20	B/E Aerospace	Protective Breathing Equipment (PBE), part numbers (P/N) 119003-11 and 119003-21
2017-18-14	R 2015-02-22	Rolls-Royce Corporation	250-C20, -C20B, -C20F, -C20J, -C20R, -C20R/1, -C20R/2, -C20R/4, -C20W, -C300/A1, and -C300/B1 turboshaft engines
2017-18-15		Airbus	A300 and A310 airplanes
2017-18-16		The Boeing Company	737-700 and -700C series airplanes
2017-18-17	R 2004-23-20	Airbus	A300 B4-603, A300 B4-620, A300 B4-622, A300 B4-605R, A300 B4-622R, A300 F4-605R, A300 F4-622R, and A300 C4-605R Variant F airplanes
2017-18-18		Airbus	A350-941 airplanes
2017-18-19		Airbus	A310-203, -204, -221, -222, -304, -322, -324, and -325 airplanes
2017-18-21	R 2017-13-12	Airbus	A318, A319, A320, and A321 airplanes
2017-19-02		The Boeing Company	727, 727C, 727-100, 727-100C, 727-200, and 727-200F series
2017-19-03		Dassault Aviation	MYSTERE-FALCON 900 airplanes
2017-19-04		Dassault Aviation	FALCON 900EX airplanes
<b>Biweekly 2017-20</b>			
2017-16-01		Ameri-King Corporation	AK-450-( ) and AK-451-( ) series emergency locator transmitters
2017-18-21	R 2017-13-12 Republication	Airbus	A318, A319, A320, A321 airplanes
2017-19-05		Siemens S.A.S.	Smoke detectors
2017-19-06		Bombardier, Inc.	CL-600-1A11, -2A12, -2B16 airplanes
2017-19-07	R 2013-02-12	Airbus Defense and Space S.A.	CN-235, CN-235-100, CN-235-200, and CN-235-300 airplanes
2017-19-08		Airbus Defense and Space S.A.	C-212-CB, C-212-CC, C-212-CD, C-212-CE, and C-212-DF airplanes
2017-19-09	R 2014-25-01	Bombardier, Inc.	DHC-8-400, -401, and -402 airplanes
2017-19-10		The Boeing Company	757-200, -200PF, and -200CB series airplanes
2017-19-11		Bombardier, Inc.	BD-700-1A10 and BD-700-1A11 airplanes
2017-19-12	R 2014-13-17	Airbus	A300, A310 airplanes
2017-19-13	R 2001-16-01 R 2014-17-06	Airbus	A330 airplanes
2017-19-14	R 2014-16-27	Dassault Aviation	FALCON 900EX airplanes
2017-19-16		Rolls-Royce plc	RB211 Trent 553-61, Trent 553A2-61, Trent 556-61, Trent 556A2-61, Trent 556B-61, Trent 556B2-61, Trent 560-61, and Trent 560A2-61 turbofan engines
2017-19-17	R 2016-17-02	Dassault Aviation	FALCON 900EX, FALCON 2000EX airplanes
2017-19-18		Rolls-Royce Deutschland Ltd & Co KG	Tay 620-15 turbofan engines

## LARGE AIRCRAFT

AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes, R - Replaces			
2017-19-19		Rolls-Royce plc	Trent XWB-75, Trent XWB-79, Trent XWB-79B, and Trent XWB-84 turbofan engines
2017-19-22	R 2014-07-09	British Aerospace Regional Aircraft	Jetstream Series 3101 and Jetstream Model 3201 airplanes
2017-19-23	R 2015-15-10	Airbus	A318, A319, A320, A321 airplanes
2017-19-24	R 2014-26-10	Airbus	A318, A319, A320, A321 airplanes
2017-19-25		Airbus Defense and Space S.A.	CN-235, CN-235-100, CN-235-200, and CN-235-300, and Model C-295 airplanes
2017-19-26	R 2008-12-04	The Boeing Company	737-600, -700, -700C, -800, and -900 series airplanes
2017-19-27		Bombardier, Inc.	DHC-8-401 and -402 airplanes
2017-20-01		Honeywell International Inc.	TFE731-20 and TFE731-40 turbofan engines
2017-20-02	R 2017-13-05	Airbus	A330, A340 airplanes
<b>Biweekly 2017-21</b>			
2017-18-20		The Boeing Company	707-100 Long Body, -200, -100B Long Body, and -100B Short Body series; and 707-300, -300B, -300C, and -400 series airplanes
2017-19-05		Siemens S.A.S.	Smoke detectors
2017-20-03		Dassault Aviation	FALCON 7X airplanes
2017-20-04		Airbus	A300, A310 airplanes
2017-20-05	R 2011-01-15	The Boeing Company	757-200 and -300 series airplanes
2017-20-06		Honeywell International Inc.	AS907-1-1A turbofan engines
2017-20-07		Bombardier, Inc.	DHC-8-400, -401, and -402 airplanes
2017-20-08	R 2009-17-01	Gulfstream Aerospace Corporation	G-IV, GIV-X, GV, GV-SP, and GVI airplanes
2017-20-09		General Electric Company	CF34-8E2; CF34-8E2A1; CF34-8E5; CF34-8E5A1; CF34-8E5A2; CF34-8E6; and CF34-8E6A1 model turbofan engines
2017-20-10		Airbus	A319, A320, A321 airplanes
2017-20-11		Bombardier, Inc.	CL-600-1A11, -2A12, -2B16 airplanes
2017-20-12		The Boeing Company	737-100, -200, and -200C series airplanes
2017-20-14		The Boeing Company	737-300, -400, and -500 series airplanes
2017-21-51		Engine Alliance	GP7270, GP7272, and GP7277 engines
<b>Biweekly 2017-22</b>			
2017-21-01		Dassault Aviation	FAN JET FALCON, FAN JET FALCON SERIES C, D, E, F, and G; MYSTERE-FALCON 20-C5, 20-D5, 20-E5, and 20-F5 airplanes
2017-21-02		Airbus	A300, A310 airplanes
2017-21-03		Gulfstream Aerospace LP	Gulfstream 100, Astra SPX, and 1125 Westwind Astra airplanes
2017-21-04		Gulfstream Aerospace LP	Gulfstream G150 airplanes
2017-21-05		Saab AB, Saab Aeronautics	340A (SAAB/SF340A) and SAAB 340B airplanes
2017-21-07		Airbus	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, and B4-203 airplanes
2017-21-08		Airbus	A310-203, -204, -221, -222, -304, -322, -324, and -325 airplanes
2017-21-09		Embraer S.A.	ERJ-170, ERJ-190 airplanes
2017-22-04		The Boeing Company	737-200, -200C, -300, -400, and -500 series airplanes
2017-22-06		Bombardier, Inc.	CL-600-2B16 (CL-601-3A, CL-601-3R, and CL-604 Variants) airplanes
<b>Biweekly 2017-23</b>			
2017-22-02		Ipeco Holdings Ltd.	Pilot and co-pilot seats
2017-22-03	R 2015-05-02	Airbus	A318, A319, A320, A321 airplanes
2017-22-08		Bombardier, Inc.	CL-600-2C10, -2D15, -2D24, -2E25 airplanes
2017-22-09		Saab AB, Saab Aeronautics	SAAB 340B airplanes
2017-22-13		Rolls-Royce plc	RB211-Trent 970-84 and RB211-Trent 972-84 turbofan engines
2017-23-03		Engine Alliance	GP7270, GP7272, and GP7277 model turbofan engines



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**2017-22-02 Ipeco Holdings Ltd.:** Amendment 39-19082; Docket No. FAA-2017-0490; Product Identifier 2017-NE-13-AD.

**(a) Effective Date**

This AD becomes effective December 12, 2017.

**(b) Affected ADs**

None.

**(c) Applicability**

(1) This AD applies to Ipeco Holdings Ltd. (Ipeco) pilot and co-pilot seats with a part number listed in the Planning Information section of Ipeco Service Bulletins (SBs) Number 063-25-08, Revision 00; Number 063-25-09, Revision 00; and Number 063-25-10, Revision 00; all dated May 31, 2016.

(2) These seats are installed on, but not limited to, ATR-GIE Avions de Transport Regional ATR 42 and ATR 72 airplanes.

**(d) Subject**

Joint Aircraft System Component (JASC) Code 2510, Flight Compartment Equipment.

**(e) Reason**

This AD was prompted by reports of unexpected movement of pilot and co-pilot seats on takeoff and landing. We are issuing this AD to prevent unexpected movement of pilot and co-pilot seats on takeoff and landing. The unsafe condition, if not corrected, could result in reduced control of the airplane.

**(f) Compliance**

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

(2) Within 2 years after the effective date of this AD, modify and re-identify affected each pilot and co-pilot seat. Use the Accomplishment Instructions of Ipeco SB Number 063-25-08, Revision 00; Ipeco SB 063-25-09, Revision 00; or Ipeco SB 063-25-10, Revision 00; all dated May 31, 2016; as appropriate, to do the modification and reidentification.

**(g) Installation Prohibition**

Do not install any pilot or co-pilot seat identified in paragraph (c) of this AD unless the seat is modified and reidentified as specified in paragraph (f)(2) of this AD.

**(h) 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 Boston ACO Branch, send it to the attention of the person identified in paragraph (i) of this AD.

(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.

**(i) Related Information**

(1) For more information about this AD, contact Neil Doh, Aerospace Engineer, Boston ACO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: 781-238-7757; fax: 781-238-7199; email: neil.doh@faa.gov.

(2) Refer to MCAI European Aviation Safety Agency AD 2016-0256, dated December 16, 2016, 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-2017-0490.

**(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 the AD specifies otherwise.

(i) Ipeco Service Bulletin (SB) Number 063-25-08, Revision 00; dated May 31, 2016.

(ii) Ipeco SB Number 063-25-09, Revision 00; dated May 31, 2016.

(iii) Ipeco SB Number 063-25-10, Revision 00; dated May 31, 2016.

(3) For Ipeco service information identified in this AD, contact Ipeco Holdings Ltd., Aviation Way, Southend on Sea, SS2 6UN, United Kingdom; phone: 44 1702 549371; fax: 44 1702 540782; email: sales@Ipeco.com.

(4) You may view this service information at FAA, Engine and Propeller Standards Branch, Policy and Innovation Division, 1200 District Avenue, Burlington, MA. For information on the availability of this material at the FAA, call 781-238-7125.

(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 October 19, 2017.

Karen M. Grant,  
Acting Manager, Engine and Propeller Standards Branch,  
Aircraft Certification Service.



**2017-22-03 Airbus Amendment 39-19083:** Docket No. FAA-2016-6429; Product Identifier 2015-NM-117-AD.

**(a) Effective Date**

This AD is effective November 28, 2017.

**(b) Affected ADs**

This AD replaces AD 2015-05-02, Amendment 39-18112 (80 FR 15152, March 23, 2015) (“AD 2015-05-02”).

**(c) Applicability**

This AD applies to the Airbus airplanes identified in paragraphs (c)(1) through (c)(4) of this AD, certificated in any category, with an original certificate of airworthiness or original export certificate of airworthiness issued on or before July 8, 2016.

- (1) Model A318-111, -112, -121, and -122 airplanes.
- (2) Model A319-111, -112, -113, -114, -115, -131, -132, and -133 airplanes.
- (3) Model A320-211, -212, -214, -216, -231, -232, -233, -251N, and -271N airplanes.
- (4) Model A321-111, -112, -131, -211, -212, -213, -231, and -232 airplanes.

**(d) Subject**

Air Transport Association (ATA) of America Code 05, Periodic Inspections.

**(e) Reason**

This AD was prompted by an evaluation by the design approval holder which indicates that principal structural elements and certain life-limited parts are subject to widespread fatigue damage (WFD). We are issuing this AD to prevent fatigue cracking, accidental damage, or corrosion in principal structural elements, and WFD, which could result in reduced structural integrity of the airplane.

**(f) Compliance**

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

**(g) Retained Maintenance or Inspection Program Revision, With No Changes**

This paragraph restates the requirements of paragraph (n) of AD 2015-05-02, with no changes. Within 30 days after March 2, 2015 (the effective date of AD 2014-23-15, Amendment 39-18031 (80 FR 3871, January 26, 2015) (“AD 2014-23-15”)), revise the maintenance or inspection program, as applicable, to incorporate the Airworthiness Limitation Items (ALIs) specified in paragraphs (g)(1) and (g)(2) of this AD. The initial compliance time for accomplishing the actions is at the applicable

time identified in the ALIs specified in paragraphs (g)(1) and (g)(2) of this AD; or within 4 months after March 2, 2015 (the effective date of AD 2014-23-15); whichever occurs later.

(1) Airbus A318/A319/A320/A321 Airworthiness Limitations Section (ALS) Part 1–Safe Life Airworthiness Limitation Items, Revision 02, dated May 13, 2011.

(2) Airbus A318/A319/A320/A321 ALS Part 2–Damage-Tolerant Airworthiness Limitation Items (DT ALI), Revision 02, dated May 28, 2013.

**(h) Retained Limitation: No Alternative Actions, Intervals, and/or Critical Design Configuration Control Limitations (CDCCLs), With an Exception**

This paragraph restates the requirements of paragraph (o) of AD 2015-05-02, with an exception. Except as specified in paragraph (i) or (j) of this AD, as applicable, after accomplishing the revision required by paragraph (g) of this AD, no alternative actions (e.g., inspections), intervals, and/or CDCCLs may be used unless the actions, intervals, and/or CDCCLs are approved as an alternative method of compliance (AMOC) in accordance with the procedures specified in paragraph (l)(1) of this AD.

**(i) New Maintenance or Inspection Program Revision**

Within 60 days after the effective date of this AD, revise the maintenance or inspection program, as applicable, to incorporate the ALIs specified in Airbus A318/A319/A320/A321 ALS Part 2–Damage Tolerant Airworthiness Limitation Items (DT–ALI), Revision 05, dated July 8, 2016. The initial compliance time for accomplishing the actions is at the applicable time identified in the ALIs specified in Airbus A318/A319/A320/A321 ALS Part 2–DT–ALI, Revision 05, dated July 8, 2016, without exceeding the inspection intervals in the ALIs specified in the service information identified in paragraph (g)(2) of this AD. Accomplishing this action terminates the requirements of paragraph (g)(2) of this AD.

**(j) New Method of Compliance for Maintenance or Inspection Program Revision**

Revising the maintenance or inspection program, as applicable, to incorporate the ALIs specified in Airbus A318/A319/A320/A321 ALS Part 1–Safe Life Airworthiness Limitation Items (SL–ALI), Revision 04, dated June 20, 2016, is a method of compliance for the actions required by paragraph (g)(1) of this AD. The initial compliance time for accomplishing the actions is at the applicable time identified in the ALIs specified in Airbus A318/A319/A320/A321 ALS Part 1–SL–ALI, Revision 04, dated June 20, 2016, without exceeding the inspection intervals in the ALIs specified in the service information identified in paragraph (g)(1) of this AD. Accomplishing this action terminates the requirements of paragraph (g)(1) of this AD.

**(k) New No Alternative Actions and/or Intervals**

After accomplishing the revision required by paragraph (i) or specified in paragraph (j) of this AD, no alternative actions (e.g., inspections) and/or intervals may be used unless the actions and/or intervals are approved as an AMOC in accordance with the procedures specified in paragraph (l)(1) of this AD.

**(l) 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 (m)(2) of this AD. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov.

(i) 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.

(ii) AMOCs approved previously for AD 2015-05-02, are approved as AMOCs for the corresponding provisions of paragraphs (g) and (h) of this AD.

(iii) AMOCs approved previously for AD 2015-05-02, which are included in the FAA AMOC letters specified in paragraphs (l)(1)(iii)(A) and (l)(1)(iii)(B), are approved as AMOCs for the corresponding provisions of paragraphs (i) and (j) of this AD.

(A) FAA AMOC letter ANM-116-17-002R1, dated November 14, 2016.

(B) FAA AMOC letter ANM-116-17-323, dated June 12, 2017.

(2) Contacting the Manufacturer: As of the effective date of this AD, 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's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

#### **(m) Related Information**

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA Airworthiness Directive 2016-0239, dated December 2, 2016, 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-2016-6429.

(2) For more information about this AD, contact Sanjay Ralhan, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone 425-227-1405; fax 425-227-1149.

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

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

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

(3) The following service information was approved for IBR on November 28, 2017.

(i) Airbus A318/A319/A320/A321 Airworthiness Limitations Section (ALS) Part 1—Safe Life—Airworthiness Limitation Items (SL—ALI), Revision 04, dated June 20, 2016.

(ii) Airbus A318/A319/A320/A321 Airworthiness Limitations Section (ALS) Part 2—Damage Tolerant Airworthiness Limitation Items (DT—ALI), Revision 05, dated July 8, 2016.

(4) The following service information was approved for IBR on March 2, 2015 (80 FR 3871, January 26, 2015).

(i) Airbus A318/A319/A320/A321 ALS Part 1—Safe Life Airworthiness Limitation Items, Revision 02, dated May 13, 2011. The revision level of this document is identified on only the title page and in the Record of Revisions. The revision date is not identified on the title page of this document.

(ii) Airbus A318/A319/A320/A321 ALS Part 2—Damage-Tolerant Airworthiness Limitation Items (DT ALI), Revision 02, dated May 28, 2013. The revision date of this document is not identified on the title page of this document.

(5) For service information identified in this AD, contact Airbus, Airworthiness Office–EIAS, 1 Rond Point Maurice Bellonte, 31707 Blagnac Cedex, France; telephone +33 5 61 93 36 96; fax +33 5 61 93 44 51; email [account.airworth-eas@airbus.com](mailto:account.airworth-eas@airbus.com); Internet <http://www.airbus.com>.

(6) You may view this service information at the FAA, Transport Standards Branch, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425-227-1221.

(7) 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 Renton, Washington, on October 11, 2017.

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



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**2017-22-08 Bombardier, Inc.:** Amendment 39-19088; Docket No. FAA-2017-0562; Product Identifier 2017-NM-027-AD.

**(a) Effective Date**

This AD is effective December 11, 2017.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to the Bombardier, Inc., airplanes identified in paragraphs (c)(1) through (c)(4) of this AD, certificated in any category, equipped with horizontal stabilizer trim actuator (HSTA) part number 8489-7 or 8489-7R.

- (1) Model CL-600-2C10 (Regional Jet Series 700, 701, & 702) airplanes.
- (2) Model CL-600-2D15 (Regional Jet Series 705) airplanes.
- (3) Model CL-600-2D24 (Regional Jet Series 900) airplanes.
- (4) Model CL-600-2E25 (Regional Jet Series 1000) airplanes.

**(d) Subject**

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

**(e) Reason**

This AD was prompted by a report indicating that a number of rubber bull gear (RBG) wheels installed in the HSTA were manufactured using an incorrect material specification. We are issuing this AD to prevent premature wear-out of the teeth of the RBG wheels, which could cause difficulties in maneuvering the airplane.

**(f) Compliance**

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

**(g) Serial Number Verification**

Within 600 flight hours after the effective date of this AD, inspect to determine whether the serial number (S/N) of the installed HSTA is listed in paragraph 1.A, "Effectivity," of Bombardier Service Bulletin 670BA-27-072, Revision A, dated October 26, 2016. If the S/N of the installed HSTA is not listed in paragraph 1.A, "Effectivity," of Bombardier Service Bulletin 670BA-27-072, Revision A, dated October 26, 2016, no further action is required by this AD, except as required by paragraph (j) of this AD. A review of airplane maintenance records is acceptable in lieu of this inspection if the part number of the HSTA can be conclusively determined from that review.

**(h) Replacement**

For any HSTA with a S/N listed in paragraph 1.A, “Effectivity,” of Bombardier Service Bulletin 670BA-27-072, Revision A, dated October 26, 2016: Within the compliance times specified in figure 1 to paragraph (h) of this AD, as applicable, replace the affected HSTA, in accordance with the Accomplishment Instructions of Bombardier Service Bulletin 670BA-27-072, Revision A, dated October 26, 2016.

**Figure 1 to paragraph (h) of this AD – Compliance time criteria**

For HSTAs with S/N suffix A or with no suffix, that have accumulated 10,000 flight cycles (FC) or fewer	Within 3600 FC accumulated on the unit from the effective date of this AD
For HSTAs with S/N suffix A or with no suffix, that have accumulated more than 10,000 FC	Within 1800 FC accumulated on the unit from the effective date of this AD
For HSTAs with S/N suffix B or AB, that have accumulated 10,000 FC or fewer since the incorporation of Bombardier Service Bulletin 670BA-27-058	Within 3600 FC accumulated on the unit from the effective date of this AD
For HSTAs with S/N suffix B or AB, that have accumulated more than 10,000 FC since the incorporation of Bombardier Service Bulletin 670BA-27-058.	Within 1800 FC accumulated on the unit from the effective date of this AD

**(i) Credit for Previous Actions**

This paragraph provides credit for actions required by paragraphs (g) and (h) of this AD, if those actions were performed before the effective date of this AD using Bombardier Service Bulletin 670BA-27-072, dated April 26, 2016.

**(j) Parts Installation Limitation**

As of the effective date of this AD, no person may install, on any airplane, an HSTA having part number 8489-7 or 8489-7R, with a S/N listed in paragraph 1.A, “Effectivity,” of Bombardier Service Bulletin 670BA-27-072, Revision A, dated October 26, 2016, unless the S/N has a suffix “C” marked on the identification plate adjacent to the S/N.

**(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 (1)(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, 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.

**(l) Related Information**

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) Canadian Airworthiness Directive CF-2016-22, dated June 24, 2016, 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-2017-0562.

(2) For more information about this AD, contact Aziz Ahmed, Aerospace Engineer, Airframe and Mechanical Systems Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7329; fax 516-794-5531.

(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) Bombardier Service Bulletin 670BA-27-072, Revision A, dated October 26, 2016.

(ii) Reserved.

(3) For service information identified in this AD, contact Bombardier, Inc., 400 Côte-Vertu Road West, Dorval, Québec H4S 1Y9, Canada; Widebody Customer Response Center North America toll-free telephone 1-866-538-1247 or direct-dial telephone 1-514-855-2999; fax 514-855-7401; email [ac.yul@aero.bombardier.com](mailto:ac.yul@aero.bombardier.com); Internet <http://www.bombardier.com>.

(4) You may view this service information at the FAA, Transport Standards Branch, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425-227-1221.

(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 Renton, Washington, on October 19, 2017.

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



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**2017-22-09 Saab AB, Saab Aeronautics (Formerly Known as Saab AB, Saab Aerosystems):**  
Amendment 39-19089; Docket No. FAA-2017-0777; Product Identifier 2017-NM-050-AD.

**(a) Effective Date**

This AD is effective December 11, 2017.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to Saab AB, Saab Aeronautics (formerly known as Saab AB, Saab Aerosystems) Model SAAB 340B airplanes, certificated in any category, serial numbers 362, 363, 385, and 405.

**(d) Subject**

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

**(e) Reason**

This AD was prompted by reports of natural stall events in icing conditions, without prior stall warnings. We are issuing this AD to prevent a natural stall event in icing conditions without any stall warning, which could result in loss of control of the airplane.

**(f) Compliance**

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

**(g) Modification**

Within 12 months after the effective date of this AD, do the actions specified in paragraphs (g)(1) and (g)(2) of this AD.

(1) Install a provision for a modified stall warning system, in accordance with the Accomplishment Instructions of Saab Service Bulletin 340-27-117, dated January 23, 2017.

(2) Install new stall warning computers and activate the modified stall warning system, in accordance with the Accomplishment Instructions of Saab Service Bulletin 340-27-118, dated January 23, 2017.

**(h) Parts Installation Prohibition**

After modification of an airplane as required by paragraph (g) of this AD, no person may install a stall warning computer having part number (P/N) 20AK5 or P/N 0020AK5 on that airplane.

**(i) 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 (j)(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 Saab AB, Saab Aeronautics's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

**(j) Related Information**

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA Airworthiness Directive 2017-0067, dated April 24, 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-2017-0777.

(2) For more information about this AD, contact Shahram Daneshmandi, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone 425-227-1112; fax 425-227-1149.

**(k) Material Incorporated by Reference**

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 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) Saab Service Bulletin 340-27-117, dated January 23, 2017.

(ii) Saab Service Bulletin 340-27-118, dated January 23, 2017.

(3) For service information identified in this AD, contact Saab AB, Saab Aeronautics, SE-581 88, Linköping, Sweden; telephone +46 13 18 5591; fax +46 13 18 4874; email [saab340.techsupport@saabgroup.com](mailto:saab340.techsupport@saabgroup.com); Internet <http://www.saabgroup.com>.

(4) You may view this service information at the FAA, Transport Standards Branch, 1601 Lind Avenue SW., Renton, WA. For information on the availability of this material at the FAA, call 425-227-1221.

(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 Renton, Washington, on October 19, 2017.

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



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**2017-22-13 Rolls-Royce plc:** Amendment 39-19093; Docket No. FAA-2017-0816; Product Identifier 2017-NE-29-AD.

**(a) Effective Date**

This AD is effective November 22, 2017.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to Rolls-Royce plc (RR) RB211-Trent 970-84 and RB211-Trent 972-84 turbofan engines with a drains mast, part number (P/N) KH31996, installed.

**(d) Subject**

Joint Aircraft System Component (JASC) 7170, Powerplant/Engine Drains.

**(e) Reason**

This AD was prompted by cracks found in the transition duct area of the drains mast. We are issuing this AD to prevent failure of the drains mast, engine fire, and damage to the airplane.

**(f) Compliance**

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

**(g) Required Actions**

Within 12 months time since new (TSN) or within 12 months after the effective date of this AD, whichever occurs later, visually inspect the external areas of the transition duct area of the drains mast for a crack, as depicted in Figure 1 of RR Alert Non-Modification Service Bulletin (NMSB) RB.211-71-AJ576, Initial Issue, dated March 17, 2017. If there is a crack:

- (1) Before further flight, replace the drains mast with a part eligible for installation, or
- (2) Before further flight, seal the crack using the Accomplishment Instructions, paragraph 3.B. of RR Alert NMSB RB.211-71-AJ576, Initial Issue, dated March 17, 2017, and within 100 flight cycles, remove and replace the drains mast with a part eligible for installation.

**(h) Definition**

- (1) For the purposes of this AD, a part eligible for installation is a part not listed in this AD, or a part that has passed the inspection required by this AD.
- (2) For the purposes of this AD, a flight cycle is a take-off and landing.

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

(1) The Manager, ECO Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the certification office, send it to the attention of the person identified in paragraph (j)(1) of this AD. You may email your request to: ANE-AD-AMOC@faa.gov.

(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

**(j) Related Information**

(1) For more information about this AD, contact Eugene Triozzi, Aerospace Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: 781-238-7148; fax: 781-238-7199; email: eugene.triozzi@faa.gov.

(2) Refer to MCAI EASA AD 2017-0075R1, dated May 5, 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-2017-0816.

**(k) Material Incorporated by Reference**

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 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) Rolls-Royce plc (RR) Alert Non-Modification Service Bulletin RB.211-71-AJ576, Initial Issue, dated March 17, 2017.

(ii) Reserved.

(3) For RR service information identified in this AD, contact Rolls-Royce plc, Corporate Communications, P.O. Box 31, Derby, England, DE24 8BJ; phone: 011-44-1332-242424; fax: 011-44-1332-249936; email: [http://www.rolls-royce.com/contact/civil\\_team.jsp](http://www.rolls-royce.com/contact/civil_team.jsp); Internet: <https://customers.rolls-royce.com/public/rollsroycecare>.

(4) You may view this service information at FAA, Engine and Propeller Standards Branch, 1200 District Avenue, Burlington, MA 01803. For information on the availability of this material at the FAA, call 781-238-7125.

(5) You may view this service information 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 1, 2017.

Karen M. Grant,  
Acting Manager, Engine and Propeller Standards Branch,  
Aircraft Certification Service.



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**2017-23-03 Engine Alliance:** Amendment 39-19097; Docket No. FAA-2017-0988; Product Identifier 2017-NE-37-AD.

**(a) Effective Date**

This AD is effective November 24, 2017.

**(b) Affected ADs**

This AD supersedes Emergency AD 2017-21-51, Product Identifier 2017-NE-37-AD, issued on October 12, 2017.

**(c) Applicability**

This AD applies to all Engine Alliance (EA) GP7270, GP7272, and GP7277 model turbofan engines.

**(d) Subject**

Joint Aircraft System Component (JASC) Code 7230, Turbine Engine Compressor Section.

**(e) Unsafe Condition**

This AD was prompted by failure of a fan hub. We are issuing this AD to prevent failure of the fan hub. The unsafe condition, if not corrected, could result in uncontained release of the fan hub, damage to the engine, and damage to the airplane.

**(f) Compliance**

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

**(g) Required Actions**

(1) Perform a visual inspection of the fan hub in accordance with the Accomplishment Instructions, paragraph 1.B., 1.C., and 1.D., of EA Alert Service Bulletin (ASB) EAGP-A72-383, Revision No. 1, dated October 12, 2017, at the times specified in paragraphs (g)(1)(i) through (iii) of this AD.

(i) For fan hubs with 3,500 cycles since new (CSN) or more on the effective date of this AD, inspect within 2 weeks after the effective date of this AD.

(ii) For fan hubs with 2,000 CSN or more, but less than 3,500 CSN, on the effective date of this AD, inspect within 5 weeks after the effective date of this AD.

(iii) For fan hubs with less than 2,000 CSN on the effective date of this AD, inspect within 8 weeks after the effective date of this AD.

(2) If defects or damage to the fan hub are found outside the serviceable limits specified in Table 1 of EA ASB EAGP7-A72-383, Revision No. 1, dated October 12, 2017, remove the hub from

service and replace with a part that passed the inspection specified in paragraph (g)(1) of this AD, prior to further flight.

**(h) Credit for Previous Actions**

You may take credit for the inspection required by paragraph (g)(1) of this AD if you performed the inspection before the effective date of this AD, using EA ASB EAGP7-A72-383, dated October 7, 2017.

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

(1) The Manager, ECO Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the certification office, send it to the attention of the person identified in paragraph (j) of this AD. Information may be emailed to: ANE-AD-AMOC@faa.gov.

(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

**(j) Related Information**

For more information about this AD, contact David Bethka, Aerospace Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: 781-238-7129; fax: 781-238-7199; email: david.bethka@faa.gov.

**(k) Material Incorporated by Reference**

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 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) Engine Alliance Alert Service Bulletin EAGP7-A72-383, Revision No. 1, dated October 12, 2017.

(ii) Reserved.

(3) For Engine Alliance service information identified in this AD, contact Engine Alliance, 400 Main St., East Hartford, CT 06108, M/S 169-10, phone: 800-565-0140; email: help24@pw.utc.com; Web site: [www.engineallianceportal.com](http://www.engineallianceportal.com).

(4) You may view this service information at FAA, Engine and Propeller Standards Branch, 1200 District Avenue, Burlington, MA. For information on the availability of this material at the FAA, call 781-238-7125.

(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 6, 2017.

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