FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES

LARGE AIRCRAFT

BIWEEKLY 2016-23

10/31/2016 - 11/13/2016

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			
Biweekly 2016-01			
2015-25-03	COR	The Boeing Company	747-100, 747-100B, 747-100B SUD, 747-200B, 747-200C, 747-200F, 747-300, 747-400, 747-400D, 747-400F, and 747SR series airplanes
2015-25-06	R 2010-06-04	Airbus	A300 B2-1C, B2-203, B2K-3C, B4-103, B4-203, and B4-2C; A310-203, -204, -221, -222, -304, -322, -324, and -325; A300 B4-601, B4-603, B4-605R, B4-620, B-622, and B4-622R airplanes
2015-26-02		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, -313, -541, and -642 airplanes
2015-26-03	R 2011-07-10	Bombardier, Inc.	BD-100-1A10 (Challenger 300) airplanes
2015-26-07		The Boeing Company	767-200, -300, -300F series airplanes
Biweekly 2016-02			
2015-25-10	R 2011-24-05	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
2015-26-05		Fokker Services B.V.	F.28 Mark 1000, 2000, 3000, and 4000
2015-26-06	R 2004-14-09	Airbus	A320-211, -212, and -231
2015-26-09		ATR–GIE Avions de Transport Régional (ATR)	ATR42-200, -300, -320, and -500
2015-27-01		General Electric Company (GE)	GE90-76B, -77B, -85B, -90B, and -94B
2016-01-02		Bombardier, Inc.	CL-600-2B19 (Regional Jet Series 100 & 440)
2016-01-03		Airbus	A330-201, A330-202, A330-203, A330-223, A330-223F, A330-243, A330-243F, A330-301, A330-302, A330-303, A330-321, A330-322, A330-323, A330-341, A330-342, and A330-343; A340-211, A340-212, A340-213, A340-311, A340-312, and A340-313
2016-01-04	R 2005-01-09	The Boeing Company	747-100, -100B, 747-100B SUD, 747-200B, 747-200C, 747-200F, 747-300, 747-400, 747-400D, 747-400F, and 747SR series
2016-01-05		The Boeing Company	737-400 series
2016-01-07		Airbus	A319-113 and A319-114; A320-211 and A320-212
2016-01-08	R 2013-13-04	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; and A321-111, -112, -131, -211, -212, -213, -231, and -232
2016-01-09		Bombardier, Inc.	DHC-8-400, -401, and -402
2016-01-11	R 98-18-26	Airbus	A320-211, -212, and -231
2016-01-12		Bombardier, Inc.	BD-700-1A10 and BD-700-1A11
2016-01-13		Airbus	A310-203, -204, -221, -222, -304, -322, -324, and -325; A300 B4-601, B4-603, B4-620, and B4-622; A300 B4-605R and B4-622R; and A300 F4-605R, F4-622R, and A300 C4-605R Variant F
2016-01-16	R 2002-23-20	Dassault Aviation	Mystere-Falcon 900
2016-01-17		Bombardier, Inc.	CL-600-2C10 (Regional Jet Series 700, 701, & 702)
Biweekly 2016-03			
2015-25-08	COR	The Boeing Company	777-200, -200LR, -300, -300ER, and 777F series airplanes
2015-28-01		Engine Alliance	GP7270 turbofan engines
2016-01-10	R 2004-20-14	Airbus	A300 airplanes
2016-01-18	R 98-20-27	Airbus	A300 airplanes
2016-02-01	R 96-18-06	Airbus	A320-211, -212, and -231 airplanes
2016-02-02		Airbus	A318-111 and -112; A319-111, -112, and -115; A320-214; A321-111, -112, -211, -212, and -213 airplanes
2016-02-03		Airbus	A319-113 and -114; A320-211 and -212 airplanes
2016-02-04		CFM International S.A.	CFM56-5B engines
2016-02-05		Bombardier, Inc.	BD-100-1A10 (Challenger 300) airplanes
2016-03-01		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes

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AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes, R - Replaces			
Biweekly 2016-04			
2016-03-04		Rolls-Royce plc	(RR) RB211-535E4-37, RB211-535E4-B-37, and RB211-535E4-C-37 turbofan engines
2016-03-06	R 2012-18-05	The Boeing Company	DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC-9C), DC-9-32F, DC-9-33F, DC-9-34, DC 9 34F, DC 9 32F (C-9A, C 9B), DC-9-41, DC-9-51, DC-9-81 (MD-81), DC-9-82 (MD-82), DC-9-83 (MD-83), DC-9-87 (MD-87), MD-88, MD-90-30 airplanes.
2016-04-01	R 2015-26-02	Airbus	A330-201, -202, -203, -223, -223F, -243, -243F, -301, -302, -303, -321, -322, -323, -341, -342, -343, A340-211, -212, -213, -311, -312, -313, -541, and -642 airplanes
2016-04-02	R 2010-26-10	The Boeing Company	747-200C, -200F, -400, -400D, and -400F series airplanes
2016-04-03		The Boeing Company	747-400F series airplanes
Biweekly 2016-05			
2016-04-06		The Boeing Company	737-600, -700, -700C, -800, -900, and -900ER series
2016-04-07		The Boeing Company	767-200, -300, -300F, and -400ER series
2016-04-08		The Boeing Company	787-8
2016-04-09		Dassault Aviation	FALCON 900EX and FALCON 2000EX
2016-04-10		ATR-GIE Avions de Transport Régional	ATR42-500 and ATR72-102, -202, -212, and -212A
2016-04-11		General Electric Company	GEnx-1B54, -1B58, -1B64, -1B67, and -1B70
2016-04-17		The Boeing Company	777-200 series
2016-04-18		The Boeing Company	747-100, -200B, -200C, -200F, -300, -400, -400D, and -400F series
2016-04-19		Airbus Defense and Space S.A.	CN-235, CN-235-100, CN-235-200, CN-235-300, and C-295
2016-04-20		The Boeing Company	737-600, -700, -700C, -800, -900, and -900ER series; 757-200, -200PF, -200CB, and -300 series; 767-200, -300, -300F, and -400ER series; 777-200, -200LR, -300, -300ER, and -777F series
2016-04-21	R 2008-26-07	The Boeing Company	DC-8-11, DC-8-12, DC-8-21, DC-8-31, DC-8-32, DC-8-33, DC-8-41, DC-8-42, DC-8-43, DC-8-51, DC-8-52, DC-8-53, DC-8-55, DC-8F-54, DC-8F-55, DC-8-61, DC-8-62, DC-8-63, DC-8-61F, DC-8-62F, DC-8-63F, DC-8-71, DC-8-72, DC-8-73, DC-8-71F, DC-8-72F, and DC-8-73F
2016-04-22		Fokker Services B.V.	F.27 Mark 200, 300, 400, 500, 600, and 700
2016-04-23		The Boeing Company	787-8
2016-04-24		The Boeing Company	757-200 series
Biweekly 2016-06			
2016-03-03	S 2013-11-13	Rolls-Royce plc	Viper Mk. 521, Viper Mk. 522, and Viper Mk. 601-22 turbojet engines
2016-03-07		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, -313, -541, and -642
2016-04-13	S 2015-04-03	Rolls-Royce plc	RB211 Trent 768-60, 772-60, and 772B-60 turbofan engines
2016-04-16	R 2013-08-23	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, DC-10-40F, MD-10-10F, MD-10-30F, MD-11, and MD-11F
2016-05-02	R 2011-13-11 & R 2013-16-09	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
2016-05-04		Dowty Propellers	R352/6-123-F/1, R352/6-123-F/2, and R410/6-123-F/35
2016-05-05		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, A310-203, -204, -221, -222, -304, -322, -324, and -325
2016-05-07		Engine Alliance	GP7270 turbofan engine
2016-05-12	R 2012-15-13	The Boeing Company	747-100B SUD, 747-300, 747-400, and 747-400D series, 747-200B series

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2016-06-02		The Boeing Company	737-300, -400, and -500 series
2016-06-03		Airbus	A319-131, -132, and -133, A320-232 and -233, A321-131, -231, and -232
2016-06-04		The Boeing Company	737-300, -400, and -500 series
2016-06-05		The Boeing Company	777-200, -200LR, -300, -300ER, and -777F series
2016-06-06		Quest Aircraft Design, LLC	KODIAK 100
2016-06-07	R 2006-22-15	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
2016-06-08		The Boeing Company	787-8 and 787-9
Biweekly 2016-07			
2016-06-10		The Boeing Company	787-8
2016-06-11		Airbus Defense and Space S.A.	CN-235, CN-235-100, CN-235-200, and CN-235-300
2016-06-12		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
2016-06-13		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
2016-07-03		The Boeing Company	747-100, 747-100B, 747-100B SUD, 747-200B, 747-300, 747SR, and 747SP series
2016-07-05		The Boeing Company	747-8 series
2016-07-06		BAE Systems (Operations) Limited	BAe 146-100A, -200A, and -300A; Avro 146-RJ70A, 146-RJ85A, and 146-RJ100A
2016-07-10		The Boeing Company	787-8 and 787-9
Biweekly 2016-08			
2016-06-14		General Electric Company	CF6-80E1
2016-07-02		Honeywell International Inc.	TFE731-4, -4R, -5AR, -5BR, and -5R
2016-07-04		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
2016-07-07		The Boeing Company	757-200, -200PF, -200CB, and -300 series
2016-07-08		The Boeing Company	DC-9-83 (MD-83)
2016-07-09	R 2011-21-06	BAE SYSTEMS (Operations) Limited	4101
2016-07-12		Airbus	A318-111 and -112, A319-111, -112, -113, -114, and -115; A320-211, -212, and -214; A321-111, -112, -211, -212, and -213
2016-07-14		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
2016-07-15		Dassault Aviation	FALCON 7X
2016-07-16	R 2013-26-08	The Boeing Company	737-600, -700, -700C, -800, -900, and -900ER series
2016-07-17	R 97-20-07	Airbus	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
2016-07-18		Airbus Defense and Space S.A.	CN-235-200 and CN-235-300
2016-07-20	R 95-18-08	Airbus	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
2016-07-22		Airbus	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
2016-07-25		The Boeing Company	787-8
2016-07-28		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
2016-07-30		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, -313, -541, and -642
2016-07-31	R 2013-22-11	The Boeing Company	747-400 and -400D series

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2016-08-03		The Boeing Company	777-200, -200LR, -300, and -300ER series
2016-08-04		Airbus	A330-223F and -243F
2016-08-05		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)
2016-08-06		Airbus	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
2016-08-07		Rolls-Royce plc	RB211-22B-02, RB211-22B (MOD 72-8700), RB211-524B-02, RB211-524B-B-02, RB211-524B2-19, RB211-524B2-B-19, RB211-524B3-02, RB211-524B4-02, RB211-524B4-D-02, RB211-524C2-19, RB211-524C2-B-19, RB211-524D4-19, RB211-524D4-B-19, RB211-524D4X-19, RB211-524D4X-B-19, RB211-524D4-39, RB211-524D4-B-39, RB211-524G2-19, RB211-524G3-19, RB211-524-G2-T-19, RB211-524G3-T-19, RB211-524H-36, RB211-524H2-19, RB211-524H-T-36, and RB211-524H2-T-19
Biweekly 2016-09			
2016-08-01		Dassault Aviation	FALCON 7X airplanes
2016-08-09		Pratt & Whitney Division	PW4050, PW4052, PW4056, PW4060, PW4060A, PW4060C, PW4062, PW4062A, PW4152, PW4156, PW4156A, PW4158, PW4160, PW4460, PW4462, and PW4650 turbofan engines
2016-08-10		General Electric Company	CF6-80C2A1, CF6-80C2A2, CF6-80C2A3, CF6-80C2A5, CF6-80C2A5F, CF6-80C2A8, CF6-80C2B1, CF6-80C2B1F, CF6-80C2B1F1, CF6-80C2B1F2, CF6-80C2B2, CF6-80C2B2F, CF6-80C2B3F, CF6-80C2B4, CF6-80C2B4F, CF6-80C2B5F, CF6-80C2B6, CF6-80C2B6F, CF6-80C2B6FA, CF6-80C2B7F, CF6-80C2B8F, CF6-80C2D1F, CF6-80C2L1F, CF6-80C2K1F, CF6-80E1A1, CF6-80E1A2, CF6-80E1A3, CF6-80E1A4, and CF6-80E1A4/B turbofan engines
2016-08-11	R 2012-17-13	The Boeing Company	707 airplanes; 720 and 720B series airplanes
2016-08-12		The Boeing Company	787-8 and 787-9 airplanes
2016-08-14	R 2014-03-14	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
Biweekly 2016-10			
2016-07-23		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 airplanes
2016-08-02		Airbus	A320-214, -232, and -233, A321-211 and -231 airplanes
2016-08-13	R 2004-19-11	Airbus	A320-211, -212, -214, -231, -232, and -233
2016-08-15	R 2014-17-51	Bombardier, Inc	CL-600-2B16
2016-09-01		The Boeing Company	777-200 and -300 series
2016-09-03		Dassault Aviation	FALCON 2000, FALCON 2000EX, MYSTERE-FALCON 900 and FALCON 900EX
2016-09-04		Bombardier, Inc	CL-600-2B19 (Regional Jet Series 100 & 440)
2016-09-05		The Boeing Company	717-200 airplanes
2016-09-06		Airbus	A318-111 and -112, A319-111, -112, -113, -114, and -115, A320-211, -212, and -214, A321-111, -112, -211, -212, and -213
2016-09-07		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
2016-09-08		The Boeing Company	747-8 series airplanes
2016-09-10	R 2007-10-10 R1	Airbus	A300 B4-600, B4-600R, and F4-600R series, A300 C4-605R Variant F airplanes (collectively called A300-600 series airplanes)

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2016-09-11		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
2016-09-12		The Boeing Company	787-8 and 787-9 airplanes
2016-09-13		The Boeing Company	737-300, -400, and -500 series
2016-10-02		The Boeing Company	777-200 and -300 series
Biweekly 2016-11			
2016-10-04		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series
2016-10-05		The Boeing Company	757-200, -200CB, -200PF, and -300
2016-10-06		Bombardier, Inc.	BD-700-1A10, BD-700-1A11
2016-10-07		Bombardier, Inc.	DHC-8-102, -103, -106, -201, -202, -301, -311, and -315
2016-10-08		Airbus	A330-201, -202, -203, -223, and -243, A330-223F and -243F, 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
2016-10-09		The Boeing Company	787-8 and 787-9
2016-10-10	R 2014-20-01	Bombardier, Inc.	CL-600-2B16 (CL-601-3A, CL-601-3R, and CL-604 Variants)
2016-10-11	R 2015-03-06	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, -313, -541, and -642
2016-10-12		Fokker Services B.V.	F.28 Mark 0070 and 0100
2016-10-13		Airbus	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
2016-10-14		Bombardier, Inc.	CL-600-2C10 (Regional Jet Series 700, 701, & 702), CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900)
2016-10-16		Dassault Aviation	MYSTERE-FALCON 900, FALCON 900EX, FALCON 2000EX
2016-11-02		Bombardier, Inc.	CL-600-2C10 (Regional Jet Series 700, 701, & 702), CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000)
Biweekly 2016-12			
2016-10-15		Fokker Services B.V.	F.28 Mark 0070 and 0100
2016-11-01		Airbus	A330-201, -202, -203, -223, and -243; A330-223F and -243F; A330-301, -302, -303, -321, -322, -323, -341, -342, and -343; A340-541; and A340-642
2016-11-03		The Boeing Company	777-200, -200LR, -300, -300ER, and -777F series
2016-11-04	R 2011-23-05	The Boeing Company	737-300, -400, and -500 series
2016-11-05	R 99-16-01	Airbus	A300 B4-601, B4-603, B4-620, and B4-622; A300 B4-605R and B4-622R; A300 F4-605R; and A300 C4-605R Variant F
2016-11-06	R 2005-18-18	The Boeing Company	757-200, -200PF, -200CB, and -300 series
2016-11-07		The Boeing Company	777-200 and -300 series
2016-11-08	R 2001-12-18	Airbus Defense and Space S.A.	CN-235; CN-235-100 and -200
2016-11-15		Fokker Services B.V.	F28 Mark 0070 and 0100
2016-11-17		The Boeing Company	787-8
2016-11-18		The Boeing Company	787
2016-11-20		B/E Aerospace	Protective Breathing Equipment (PBE)
2016-11-22		Fokker Services B.V.	F.28 Mark 0070 and 0100
2016-12-03	R 2011-17-10	Fokker Services B.V.	F.28 Mark 1000
Biweekly 2016-13			
2016-11-14		Fokker Services B.V.	F.28 Mark 1000, 2000, 3000, and 4000 airplanes
2016-11-16		The Boeing Company	777-200 and -300 series airplanes
2016-11-19		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, -313, -541, and -642 airplanes

LARGE AIRCRAFT

AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes, R - Replaces			
2016-12-04		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 airplanes
2016-12-05	R 2014-15-04	Saab AB, Saab Aeronautics	SAAB 2000 airplanes
2016-12-09	R 2016-09-11	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 airplanes
2016-12-10	R 2016-09-07	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 airplanes
2016-12-11		The Boeing Company	787-8 airplanes
2016-12-12	R 2008-05-18 R1	Fokker Services B.V.	F.27 Mark 050, 200, 300, 400, 500, 600, and 700 airplanes
2016-12-14		Embraer S.A.	ERJ 170-100 LR, -100 STD, -100 SE., and -100 SU; ERJ 170-200 LR, -200 SU, and -200 STD; ERJ 190-100 STD, -100 LR, -100 IGW, -200 STD, -200 LR, and -200 IGW airplanes
2016-12-15	R 2016-07-30	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, -313, -541, and -642 airplanes
2016-13-01	R 2016-08-05	Bombardier, Inc.	CL-600-2C10 (Regional Jet Series 700, 701, & 702); CL-600-2D15 (Regional Jet Series 705); CL-600-2D24 (Regional Jet Series 900); CL-600-2E25 (Regional Jet Series 1000) airplanes
2016-13-02	R 2016-09-04	Bombardier, Inc.	CL-600-2B19 (Regional Jet Series 100 & 440) airplanes
2016-13-05		General Electric Company	GE90-76B, GE90-77B, GE90-85B, GE90-90B, and GE90-94B turbofan engines
Biweekly 2016-14			
2016-13-03		The Boeing Company	767-200, -300, -300F, and -400ER series airplanes
2016-13-05	COR	General Electric Company	GE90-76B, GE90-77B, GE90-85B, GE90-90B, and GE90-94B turbofan engines
2016-13-06		Saab AB, Saab Aeronautics	340A (SAAB/SF340A), SAAB 340B airplanes
2016-13-08		Airbus	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, and B4-203, B4-601, B4-603, B4-620, B4-622, B4-605R, B4-622R, F4-605R, F4-622R, and C4-605R Variant F airplanes
2016-13-10	R 2012-12-04	The Boeing Company	737-300, -400, and -500 series
2016-13-11	R 2008-05-06	The Boeing Company	737-100, -200, -300, -400, and -500 series
2016-13-12		Rolls-Royce Deutschland GmbH	BR700-710A1-10, BR700-710A2-20, BR700-710C4-11 engines
2016-13-13		Beechcraft Corporation	BAe.125 series 1000A and 1000B, and Hawker 1000 airplanes
2016-13-14		Bombardier, Inc.	DHC-8-400, -401 and -402 airplanes
2016-13-16		The Boeing Company	737-600, -700, -700C, -800, -900, and 900ER series airplanes
2016-14-02	R 2012-18-12	Airbus	A318-111, -112, -121, and -122, A319-111, -112, -113, -114, -115, -131, -132, and -133, 320-211, -212, -214, -231, -232, and -233 airplanes
2016-14-03		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 airplanes
2016-14-04		The Boeing Company	787-8 series
Biweekly 2016-15			
2016-13-09		Bombardier, Inc	CL-600-2B16 (CL-604 Variant)
2016-13-15		Dassault Aviation	FALCON 7X
2016-14-01		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
2016-14-07		Bombardier, Inc	CL-600-2B19 (Regional Jet Series 100 & 440); CL-600-2C10 (Regional Jet Series 700, 701, & 702); CL-600-2D15

AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes, R - Replaces			
			(Regional Jet Series 705); CL-600-2D24 (Regional Jet Series 900); CL-600-2E25 (Regional Jet Series 1000)
2016-14-08	R 2015-10-03	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; A340-541 and -642
2016-14-09	R 2014-14-06	Airbus	A318-111 and -112; A319-111, -112, -113, -114, and -115; A320-211, -212, and -214; A321-111, -112, -211, -212, and -213
2016-15-01		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
Biweekly 2016-16			
2016-14-01	COR	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 airplanes
2016-14-10	S 2013-02-02	CFM International, S.A.	CFM56-3, CFM56-3B, and CFM56-3C turbofan engines
2016-15-03		Bombardier Inc.	BD-700-1A10 and BD-700-1A11
2016-15-04		The Boeing Company	757-200 and -200CB series
2016-15-05		Dassault Aviation	FALCON 900EX and FALCON 2000EX
2016-15-06		Bombardier, Inc.	BD-700-1A10 and BD-700-1A11
2016-15-07		Bombardier, Inc.	CL-600-2C10 (Regional Jet Series 700, 701, & 702), CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000)
2016-16-01		Airbus	A330-223F and -243F, A330-201, -202, -203, -223, and -243, A330-301, -302, -303, -321, -322, -323, -341, -342, and -343
2016-16-04		Fokker Services B.V.	F.28 Mark 1000, 2000, 3000, and 4000
2016-16-05		Fokker Services B.V.	F.28 Mark 1000, 2000, 3000, and 4000
2016-16-06		Airbus	A300 B4-603, A300 B4-605R, A300 B4-622R, A310-304, A310-324, and A310-325
Biweekly 2016-17			
2016-16-02		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
2016-16-07	R 2007-21-14 R1	Airbus	A310-203, -204, -221, -222, -304, -322, -324, and -325
2016-16-08		Airbus	A330-201, -202, -203, -223, -243, -223F, -243F, -301, -302, -303, -321, -322, -323, -341, -342, and -343; A340-211, -212, -213, -311, -312, and -313
2016-16-09	R 2011-10-01	Dassault Aviation	FALCON 7X
2016-16-10		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
2016-16-11	R 2010-10-13	BAE Systems (Operations) Limited	BAe 146-100A, -200A, and -300A series; Avro 146-RJ70A, 146-RJ85A, and 146-RJ100A
2016-16-13	R 2016-13-10	The Boeing Company	737-300, -400, and -500 series
2016-16-14	R 2013-20-11	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
2016-16-15		Bombardier, Inc.	DHC-8-400, -401, and -402
2016-17-02		Dassault Aviation	FALCON 900EX; FALCON 2000EX
2016-17-03`	R 2003-25-07 R 2005-13-39	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

LARGE AIRCRAFT

AD No.	Information	Manufacturer	Applicability

Information Key: E - Emergency; COR - Correction; S – Supersedes, R - Replaces

Biweekly 2016-18

2016-17-01	S 2006-18-14	Rolls-Royce Deutschland Ltd & Co	Tay 650-15 and Tay 651-54
2016-17-06		The Boeing Company	767-200 and -300 series
2016-17-09		Bombardier, Inc.	CL-600-2D15 (Regional Jet Series 705) and CL-600-2D24 (Regional Jet Series 900)
2016-17-10		The Boeing Company	777-200, 777-200LR, 777-300, 777-300ER, and 777F series
2016-17-11		The Boeing Company	787-8
2016-17-12		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
2016-17-13		Bombardier, Inc.	CL-600-2C10 (Regional Jet Series 700, 701, & 702)
2016-17-15		Bombardier, Inc	CL-600-2B19 (Regional Jet Series 100 & 440)
2016-17-16		Bombardier, Inc	BD-700-1A10 and BD-700-1A11
2016-17-17		Airbus Defense and Space S.A.	CN-235, CN 235-200, and CN 235-300
2016-18-01		The Boeing Company	737-600, -700, -700C, -800, -900, and -900ER series
2016-18-02		The Boeing Company	777-200 and -300ER series
2016-18-03		Bombardier, Inc	CL-600-2B19 (Regional Jet Series 100 & 440)
2016-18-04	R 2013-24-12	The Boeing Company	747-8 and 747-8F
2016-18-10		International Aero Engines AG (IAE)	V2522-A5, V2524-A5, V2525-D5, V2527-A5, V2527E-A5, V2527M-A5, V2528-D5, V2530-A5, and V2533-A5
2016-16-01	COR	Airbus	A330-223F and -243F; A330-201, -202, -203, -223, and -243; A330-301, -302, -303, -321, -322, -323, -341, -342, and -343

Biweekly 2016-19

2016-17-14		Saab AB, Saab Aeronautics	SAAB 2000 airplanes
2016-18-06		The Boeing Company	767-200, -300, and -400ER series
2016-18-08	R 90-11-05	Airbus	A300 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
2016-18-09		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
2016-18-11		Gulfstream Aerospace Corporation	G-1159, G-1159A, G-1159B, G-IV, GV, GIV-X, GV-SP
2016-18-12		Airbus	A300 B4-203 and A300 B4-2C
2016-18-13		Fokker Services B.V.	F28 Mark 0070 and 0100
2016-18-14		ATR–GIE Avions de Transport Régional	ATR42-500, ATR72-212A
2016-18-15		The Boeing Company	737-600, -700, -700C, -800, and -900 series
2016-19-06		Airbus	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
2016-19-07	R 2008-19-08	Dassault Aviation	Falcon 10

Biweekly 2016-20

2016-18-07	R 2009-15-17	Airbus	A330-223F, -243F, -201, -202, -203, -223, -243, -301, -302, -303, -321, -322, -323, -341, -342, and -343; A340-211, -212, -213, -311, -312, and -313
2016-18-16		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series
2016-19-01		Fokker Services B.V.	F28 Mark 0070 and F28 Mark 0100
2016-19-02	R 2005-15-07	Airbus	A320-211, -212, and -231
2016-19-03		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 series
2016-19-04		The Boeing Company	787-8
2016-19-05		International Aero Engines AG	V2500-A1

LARGE AIRCRAFT

AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes, R - Replaces			
2016-19-09		General Electric Company	GE90-76B, GE90-77B, GE90-85B, GE90-90B, and GE90-94B
2016-19-10	R 2000-10-18	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; A300 C4-605R Variant F; A310-203, -204, -221, -222, -304, -322, -324, and -325
2016-19-11		Bombardier, Inc.	DHC-8-400, -401, and -402
2016-20-05		Saab AB, Saab Aeronautics	SAAB 2000
2016-20-06		Gulfstream Aerospace Corporation	G-1159, G-1159A, G-1159B, and G-IV
Biweekly 2016-21			
2016-19-12		The Boeing Company	747-400, 747-400D, and 747-400F series
2016-19-17	R 2010-23-19	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)
2016-20-14		The Boeing Company	737-600, -700, -700C, -800, -900 and -900ER series
2016-20-15		General Electric Company	GEnx-1B64/P2, -1B67/P2, -1B70/P2, -1B70C/P2, -1B70/75/P2, and -1B74/75/P2 turbofan engines
Biweekly 2016-22			
2016-19-13		Dassault Aviation	MYSTERE-FALCON 50, MYSTERE-FALCON 900, FALCON 900EX, FALCON 2000EX
2016-19-14		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
2016-20-02		The Boeing Company	737-300, -400, and -500 series
2016-20-03		The Boeing Company	767-200, -300, and -400ER series
2016-20-08	R 95-21-09	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, and B4-622R; A300 F4-605R; A300 F4-622R; A300 C4-605R Variant F
2016-20-10		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
2016-20-12	R 2012-20-07	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
2016-20-13		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
2016-22-03		Bombardier, Inc.	DHC-8-400, -401, and -402
Biweekly 2016-23			
2016-22-05		Pratt & Whitney Division	PW4164, PW4168, PW4168A, PW4164-1D, PW4168-1D, PW4168A-1D, and PW4170
2016-22-09	R 2006-20-11	The Boeing Company	757-200, -200CB, and -200PF series
2016-22-10		Turbomeca S.A.	Arriel 1, 1A, 1A1, 1A2, 1B, 1B2, 1C, 1C1, 1C2, 1D, 1D1, 1E, 1E2, 1K1, 1S, and 1S1 turboshaft engines
2016-22-11	R 2013-02-06	Engine Alliance	GP7270 and GP7277 turbofan engines
2016-22-14		The Boeing Company	737-600, 737-700, 737-700C, 737-800, 737-900, and 737-900ER series
2016-22-15	R 2012-24-06	Saab AB, Saab Aeronautics	340A (SAAB/SF340A) and SAAB 340B
2016-22-18		The Boeing Company	MD-90-30 airplanes
2016-23-01	R 2010-04-03	Airbus	A310-203, -204, -221, -222, -304, -322, -324, and -325

2016-22-05 Pratt & Whitney Division: Amendment 39-18694; Docket No. FAA-2016-5423; Directorate Identifier 2016-NE-09-AD.

(a) Effective Date

This AD is effective December 6, 2016.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Pratt & Whitney (PW):

(1) PW4164, PW4168, and PW4168A model engines that have incorporated PW Service Bulletin (SB) PW4G-100-72-214, dated December 15, 2011, or PW SB PW4G-100-72-219, Revision No. 1, dated October 5, 2011, or original issue, and have fuel nozzles, part number (P/N) 51J345, installed;

(2) PW4168A model engines with Talon IIA outer combustion chamber assembly, P/N 51J100, and fuel nozzles, P/N 51J345, with serial numbers CGGUA19703 through CGGUA19718 inclusive or CGGUA22996 and higher, installed;

(3) PW4168A-1D and PW4170 model engines with engine serial numbers P735001 thru P735190 inclusive and fuel nozzles, P/N 51J345, installed; and

(4) PW4164-1D, PW4168-1D, PW4168A-1D, and PW4170 model engines that have incorporated PW SB PW4G-100-72-220, Revision No. 4, dated September 30, 2011, or earlier revision, and have fuel nozzles, P/N 51J345, installed.

(d) Unsafe Condition

This AD was prompted by nine instances of fuel leaks on PW engines with the Talon IIB combustion chamber configuration installed. We are issuing this AD to prevent failure of the fuel nozzles, which could lead to engine fire and damage to the airplane.

(e) Compliance

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

(1) Within 800 flight hours after the effective date of this AD, and thereafter within every 800 flight hours accumulated on the fuel nozzles, do the following:

(i) Inspect all fuel nozzles, P/N 51J345. Use Part A of PW Alert Service Bulletin (ASB) PW4G-100-A73-45, dated February 16, 2016, to do the inspection.

(ii) For any fuel nozzle that fails the inspection, before further flight, remove and replace it with a part that is eligible for installation.

(2) At the next shop visit after the effective date of this AD, and thereafter at each engine shop visit, remove all fuel nozzles, P/N 51J345, unless fuel nozzles were replaced within the last 100 flight

hours. Use Part B of PW ASB PW4G-100-A73-45, dated February 16, 2016, to replace the fuel nozzles with parts eligible for installation.

(f) Definitions

(1) For the purpose of this AD, an "engine shop visit" means the induction of an engine into the shop for any maintenance.

(2) For the purpose of this AD, a part that is "eligible for installation" is a fuel nozzle, with a P/N other than 51J345, that is FAA-approved for installation or a fuel nozzle, P/N 51J345, that meets the requirements of Part A, paragraph 4.B., or Part B, paragraph 1.B. of PW ASB PW4G-100-A73-45, dated February 16, 2016.

(g) Alternative Methods of Compliance (AMOCs)

The Manager, Engine Certification Office, FAA, may approve AMOCs for this AD. Use the procedures found in 14 CFR 39.19 to make your request. You may email your request to: ANE-AD-AMOC@faa.gov.

(h) Related Information

For more information about this AD, contact Besian Luga, Aerospace Engineer, Engine Certification Office, FAA, Engine & Propeller Directorate, 1200 District Avenue, Burlington, MA 01803; phone: 781-238-7750; fax: 781-238-7199; email: besian.luga@faa.gov.

(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 do the actions required by this AD, unless the AD specifies otherwise.

(i) Pratt & Whitney (PW) Alert Service Bulletin PW4G-100-A73-45, dated February 16, 2016.

(ii) Reserved.

(3) For PW service information identified in this AD, contact Pratt & Whitney Division, 400 Main St., East Hartford, CT 06108; phone: 860-565-8770; fax: 860-565-4503.

(4) You may view this service information at FAA, Engine & Propeller Directorate, 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 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 25, 2016.
Colleen M. D'Alessandro,
Manager, Engine & Propeller Directorate,
Aircraft Certification Service.

2016-22-09 The Boeing Company: Amendment 39-18698; Docket No. FAA-2016-6669; Directorate Identifier 2015-NM-191-AD.

(a) Effective Date

This AD is effective December 9, 2016.

(b) Affected ADs

This AD replaces AD 2006-20-11, Amendment 39-14781 (71 FR 58485, October 4, 2006) ("AD 2006-20-11"). This AD affects AD 2006-11-11, Amendment 39-14615 (71 FR 30278, May 26, 2006) ("AD 2006-11-11").

(c) Applicability

(1) This AD applies to The Boeing Company Model 757-200, -200CB, and -200PF series airplanes, certificated in any category, as identified in Boeing Special Attention Service Bulletin 757-53-0090, Revision 1, dated November 19, 2015.

(2) Installation of Supplemental Type Certificate (STC) ST01518SE (http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgSTC.nsf/0/38B606833BBD98B386257FAA00602538?OpenDocument&Highlight=st01518se) does not affect the ability to accomplish the actions required by this AD. Therefore, for airplanes on which STC ST01518SE 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 53, Fuselage.

(e) Unsafe Condition

This AD was prompted by an evaluation done by the design approval holder indicating that the fuselage skin lap splice is subject to widespread fatigue damage. We are issuing this AD to detect and correct fatigue cracking at certain skin lap splice locations of the fuselage, which could result in reduced structural integrity and rapid decompression of the airplane.

(f) Compliance

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

(g) Retained Initial and Repetitive Inspections, With Terminating Action

This paragraph restates the requirements of paragraph (f) of AD 2006-20-11, with terminating action. Do initial and repetitive detailed or high frequency eddy current (HFEC) inspections for cracking around the rivets at the upper fastener row of the skin lap splice of the fuselage by doing all

the actions in accordance with the Accomplishment Instructions of Boeing Special Attention Service Bulletin 757-53-0090, dated June 2, 2005, except as provided by paragraphs (h) and (i) of this AD. Do the inspections at the applicable times specified in Paragraph 1.E., "Compliance," of Boeing Special Attention Service Bulletin 757-53-0090, dated June 2, 2005; except where Boeing Special Attention Service Bulletin 757-53-0090, dated June 2, 2005, specifies a compliance time "after the original release date of this service bulletin," this AD requires compliance after November 8, 2006 (the effective date of AD 2006-20-11). Accomplishing an inspection required by paragraph (j) of this AD terminates the inspections required by this paragraph.

(h) Retained Repair, With No Changes

This paragraph restates the requirements of paragraph (g) of AD 2006-20-11, with no changes. If any crack is found during any inspection required by paragraph (g) of this AD: Before further flight, repair the crack using a method approved in accordance with the procedures specified in paragraph (m) of this AD.

(i) Retained Provision Regarding Reporting, With No Changes

This paragraph restates the provision specified in paragraph (h) of AD 2006-20-11, with no changes. Although Boeing Special Attention Service Bulletin 757-53-0090, dated June 2, 2005, recommends that inspection results be reported to the manufacturer, this AD does not include that requirement.

(j) New Repetitive Inspections

At the applicable time specified in table 1 of paragraph 1.E., "Compliance," of Boeing Special Attention Service Bulletin 757-53-0090, Revision 1, dated November 19, 2015, except as provided by paragraphs (j)(1), (j)(2), and (l)(1) of this AD: Do an external HFEC inspection for cracking of the skin lap splices of the fuselage, in accordance with the Accomplishment Instructions of Boeing Special Attention Service Bulletin 757-53-0090, Revision 1, dated November 19, 2015. Repeat the inspection thereafter at the applicable times specified in table 1 of paragraph 1.E., "Compliance," of Boeing Special Attention Service Bulletin 757-53-0090, Revision 1, dated November 19, 2015. Doing an inspection required by this paragraph terminates the inspections required by paragraph (g) of this AD.

(1) For airplanes on which Option 1 (detailed inspection) of Boeing Special Attention Service Bulletin 757-53-0090, dated June 2, 2005, has been done: Repeat the HFEC inspection before the accumulation of 37,500 total flight cycles, or within 3,000 flight cycles after accomplishing the most recent detailed inspection, whichever occurs later.

(2) For airplanes on which Option 2 (HFEC inspection) of Boeing Special Attention Service Bulletin 757-53-0090, dated June 2, 2005, has been done: Repeat the HFEC inspection before the accumulation of 37,500 total flight cycles, or within 12,000 flight cycles after accomplishing the most recent HFEC inspection, whichever occurs later.

(k) Repair for Cracking Found During Inspections Required by Paragraph (j) of This AD

If any cracking is found during any inspection required by paragraph (j) of this AD, repair before further flight using a method approved in accordance with the procedures specified in paragraph (m) of this AD.

(l) Exceptions to Service Information

(1) Where Boeing Special Attention Service Bulletin 757-53-0090, Revision 1, dated November 19, 2015, specifies a compliance time "after the Revision 1 date of this service bulletin," this AD requires compliance within the specified compliance time after the effective date of this AD.

(2) Although Boeing Special Attention Service Bulletin 757-53-0090, Revision 1, dated November 19, 2015, specifies to contact Boeing for repair instructions, and specifies that action as "RC" (Required for Compliance), paragraph (k) of this AD requires repair before further flight using a method approved in accordance with the procedures specified in paragraph (m) of this AD.

(m) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Los Angeles Aircraft Certification Office (ACO), 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, send it to the attention of the person identified in paragraph (n)(1) of this AD. Information may be emailed to: 9-ANM-LAACO-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, Los Angeles ACO, 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 for AD 2006-20-11, are approved as AMOCs for the corresponding provisions of paragraphs (g) and (j) of this AD.

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

(6) The inspections specified in paragraph (g) of this AD are approved as an AMOC to paragraph (h) of AD 2006-11-11 for the inspections of Significant Structural Items (SSI) 53-30-07 and 53-60-07 (fuselage lap splices, left and right upper fastener row) listed in the May 2003 or June 2005 revision of the Boeing 757 Maintenance Planning Data (MPD) Document D622N001-9. This AMOC applies only to the common areas identified in paragraphs (m)(6)(i) and (m)(6)(ii) of this AD. All provisions of AD 2006-11-11 that are not specifically referenced in the above statements remain fully applicable and must be complied with as specified in AD 2006-11-11. Operators may revise their maintenance or inspection program with these alternative inspections for common areas.

(i) Common areas inspected before the effective date of this AD, in accordance with the Accomplishment Instructions of Boeing Special Attention Service Bulletin 757-53-0090, dated June 2, 2005.

(ii) Common areas inspected in accordance with the Accomplishment Instructions of Boeing Special Attention Service Bulletin 757-53-0090, Revision 1, dated November 19, 2015.

(n) Related Information

For more information about this AD, contact Eric Schrieber, Aerospace Engineer, Airframe Branch, ANM-120L, FAA, Los Angeles ACO, 3960 Paramount Boulevard, Lakewood, CA 90712-4137; phone: 562-627-5348; fax: 562-627-5210; email: eric.schrieber@faa.gov.

(o) Material Incorporated by Reference

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

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

(3) The following service information was approved for IBR on December 9, 2016.

(i) Boeing Special Attention Service Bulletin 757-53-0090, Revision 1, dated November 19, 2015.

(ii) Reserved.

(4) The following service information was approved for IBR on November 8, 2006 (71 FR 58485, October 4, 2006).

(i) Boeing Special Attention Service Bulletin 757-53-0090, dated June 2, 2005.

(ii) Reserved.

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

(6) You may view this service information at the FAA, Transport Airplane Directorate, 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 20, 2016.
Dionne Palermo,
Acting Manager, Transport Airplane Directorate,
Aircraft Certification Service.

2016-22-10 Turbomeca S.A.: Amendment 39-186990; Docket No. FAA-2016-6990; Directorate Identifier 2016-NE-14-AD.

(a) Effective Date

This AD becomes effective December 6, 2016.

(b) Affected ADs

None.

(c) Applicability

This AD applies to certain Arriel 1, 1A, 1A1, 1A2, 1B, 1B2, 1C, 1C1, 1C2, 1D, 1D1, 1E, 1E2, 1K1, 1S, and 1S1 turboshaft engines, with modification TU376 installed.

(d) Reason

This AD was prompted by an anomaly that occurred during the grinding operation required by modification TU376, which increases the clearance between the rear curvic coupling of the centrifugal impeller and the fuel injection manifold. We are issuing this AD to prevent failure of the centrifugal impeller, uncontained centrifugal impeller release, damage to the engine, and damage to the helicopter.

(e) Actions and Compliance

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

(1) Remove from service, any centrifugal impeller listed in Table 1 to paragraph (e) of this AD, before exceeding the applicable cycles since new (CSN) and replace with a centrifugal impeller not listed in Table 1 to paragraph (e) of this AD.

Table 1 to Paragraph (e)–Centrifugal Impeller CSNs

Part No.	Serial No.	CSN
0292254040	44	5,129
0292254040	1762FT	11,476
0292254050	1676CAR	6,281
0292254050	5333OTT	5,495
0292254050	5017OTT	5,491
0292254050	1136CAR	8,734
0292254050	3655OTT	4,600

0292254050	1757CAR	7,913
0292254050	1738CAR	10,640
0292254050	1149CAR	12,273
0292254050	2677OTT	11,145
0292254050	3109OTT	10,662
0292254050	3496OTT	5,562
0292254050	2074CAR	7,423
729225293A	290CAR	6,326
729225293A	1227FT	8,139
729225293A	504FB	4,600
729225293A	2517OTT	9,732
729225293A	2165OTT	6,163
729225293A	2194FT	11,461
729225293A	1331OTT	12,513
729225293A	1301FT	7,262
729225293A	1567FT	6,305
729225293A	783FB	8,307
729225293A	98OTT	9,492

(2) Reserved.

(f) Alternative Methods of Compliance (AMOCs)

The Manager, Engine Certification Office, FAA, may approve AMOCs for this AD. Use the procedures found in 14 CFR 39.19 to make your request. You may email your request to: ANE-AD-AMOC@faa.gov.

(g) Related Information

(1) For more information about this AD, contact Philip Haberlen, Aerospace Engineer, Engine Certification Office, FAA, Engine & Propeller Directorate, 1200 District Avenue, Burlington, MA 01803; phone: 781-238-7770; fax: 781-238-7199; email: philip.haberlen@faa.gov.

(2) Refer to MCAI, European Aviation Safety Agency AD 2016-0090, dated May 10, 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-2016-6990.

(h) Material Incorporated by Reference

None.

Issued in Burlington, Massachusetts, on October 24, 2016.
Colleen M. D'Alessandro,
Manager, Engine & Propeller Directorate,
Aircraft Certification Service.

2016-22-11 Engine Alliance: Amendment 39-18700; Docket No. FAA-2012-1293; Directorate Identifier 2012-NE-45-AD.

(a) Effective Date

This AD is effective November 16, 2016.

(b) Affected ADs

This AD replaces AD 2013-02-06, Amendment 39-17327 (78 FR 5710, January 28, 2013).

(c) Applicability

This AD applies to all Engine Alliance GP7270 and GP7277 turbofan engines with a high-pressure turbine (HPT) stage 2 nozzle segment, part number (P/N) 2101M24G01, 2101M24G02, 2101M24G03, 2101M24G04, 2101M24G05, or 2101M24G06, installed.

(d) Unsafe Condition

This AD was prompted by a report of inadequate cooling of the HPT stage 1 shroud and stage 2 nozzle, leading to damage to the HPT stage 2 nozzle, burn-through of the turbine case, and in-flight shutdown. We are issuing this AD to prevent HPT stage 2 nozzle failure, uncontrolled fire, in-flight shutdown, and damage to the airplane.

(e) Compliance

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

(1) Perform a 360 degree borescope inspection of the HPT stage 1 shroud and stage 2 nozzle as follows:

(i) For engines with nozzles installed at a shop visit that did not include full engine overhaul, borescope inspect the HPT stage 1 shroud and stage 2 nozzle as follows:

(A) If the nozzle has fewer than 1,050 cycles-since-new (CSN) or cycles-since-repair (CSR) on the effective date of this AD, before the nozzle has accumulated 1,100 CSN or CSR.

(B) If the nozzle has 1,050 or more CSN or CSR on the effective date of this AD, within the next 50 cycles.

(ii) For all other engines, borescope inspect the HPT stage 1 shroud and HPT stage 2 nozzle as follows:

(A) If the nozzle has fewer than 1,450 CSN or CSR on the effective date of this AD, before the nozzle has accumulated 1,500 CSN or CSR.

(B) If the nozzle has 1,450 or more CSN or CSR on the effective date of this AD, within the next 50 cycles.

(iii) Thereafter, repetitively borescope inspect the HPT stage 1 shroud and stage 2 nozzle as follows:

(A) For engines with HPT stage 2 nozzle segments, P/N 2101M24G01, 2101M24G02, or 2101M24G03, within every 150 additional cycles-in-service (CIS).

(B) For engines with HPT stage 2 nozzle segments, P/N 2101M24G04, 2101M24G05, or 2101M24G06, within every 300 additional CIS.

(2) If any burn holes are detected through the surface of the nozzle or if the shroud is distorted radially inward with evidence of blade tip rubs, remove the HPT stage 1 shroud and HPT stage 2 nozzle from service before further flight.

(f) Mandatory Terminating Action

Replace HPT stage 2 nozzle segments, P/N 2101M24G01, 2101M24G02, 2101M24G03, 2101M24G04, 2101M24G05, and 2101M24G06, at the next piece-part exposure, with parts eligible for installation.

(g) Definition

For the purpose of this AD, piece-part exposure is when the HPT stage 2 nozzle is removed from the engine and completely disassembled.

(h) Alternative Methods of Compliance (AMOCs)

The Manager, Engine Certification Office, FAA, may approve AMOCs for this AD. Use the procedures found in 14 CFR 39.19 to make your request. You may email your request to: ANE-AD-AMOC@faa.gov.

(i) Related Information

For more information about this AD, contact Martin Adler, Aerospace Engineer, Engine & Propeller Directorate, FAA, 1200 District Avenue, Burlington, MA 01803; phone: 781-238-7157; fax: 781-238-7199; email: martin.adler@faa.gov.

(j) Material Incorporated by Reference

None.

Issued in Burlington, Massachusetts, on October 25, 2016.
Colleen M. D'Alessandro,
Manager, Engine & Propeller Directorate,
Aircraft Certification Service.

2016-22-14 The Boeing Company: Amendment 39-18703; Docket No. FAA-2016-0462; Directorate Identifier 2015-NM-144-AD.

(a) Effective Date

This AD is effective December 14, 2016.

(b) Affected ADs

None.

(c) Applicability

This AD applies to The Boeing Company Model 737-600, 737-700, 737-700C, 737-800, 737-900, and 737-900ER series airplanes, certificated in any category, as identified in Boeing Alert Service Bulletin 737-29A1119, Revision 1, dated June 23, 2016 ("ASB 737-29A1119 R1").

(d) Subject

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

(e) Unsafe Condition

This AD was prompted by a report of wire chafing damage, which caused an electrical arc to an adjacent hydraulic tube located on the forward bulkhead of the main landing gear (MLG) wheel well, resulting in a hole in a hydraulic tube and consequent total loss of system B hydraulic fluid. We are issuing this AD to prevent chafing damage, which could result in electrical arcing that can cause a hole in the hydraulic tube and consequent loss of hydraulic fluid, possibly resulting in a fire in the MLG wheel well.

(f) Compliance

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

(g) Inspection and Corrective Action and Clamp Installation

Within 24 months after the effective date of this AD: Do the actions specified in paragraphs (g)(1) and (g)(2) of this AD.

(1) Do a detailed inspection for chafing damage of the wire bundles and hydraulic tube in the right side of the MLG wheel well, and do all applicable corrective actions, in accordance with the Accomplishment Instructions of ASB 737-29A1119 R1. Do all applicable corrective actions before further flight.

(2) Install new clamps and an optional spacer between the wire bundles and hydraulic tube in the right side of the MLG wheel well, in accordance with the Accomplishment Instructions of ASB 737-29A1119 R1.

(h) Credit for Previous Actions

This paragraph provides credit for the actions specified in paragraph (g) of this AD, if those actions were performed before the effective date of this AD using Boeing Alert Service Bulletin 737-29A1119, dated August 4, 2015. This service information is not incorporated by reference in this AD.

(i) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Seattle Aircraft Certification Office (ACO), 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, send it to the attention of the person identified in paragraph (j)(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, 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) For service information that contains steps that are labeled as Required for Compliance (RC), the provisions of paragraphs (i)(4)(i) and (i)(4)(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.

(j) Related Information

(1) For more information about this AD, contact Sean J. Schauer, Aerospace Engineer, Systems and Equipment Branch, ANM-130S, FAA, Seattle Aircraft Certification Office (ACO), 1601 Lind Avenue SW., Renton, WA 98057-3356; phone: 425-917-6479; fax: 425-917-6590; email: sean.schauer@faa.gov.

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

(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) Boeing Alert Service Bulletin 737-29A1119, Revision 1, dated June 23, 2016.

(ii) Reserved.

(3) For Boeing service information identified in this AD, contact Boeing Commercial Airplanes, Attention: Contractual & Data Services (C&DS), 2600 Westminster 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 FAA, Transport Airplane Directorate, 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 25, 2016.
Dionne Palermo,
Acting Manager, Transport Airplane Directorate,
Aircraft Certification Service.

2016-22-15 Saab AB, Saab Aeronautics: Amendment 39-18704; Docket No. FAA-2015-6544; Directorate Identifier 2014-NM-198-AD.

(a) Effective Date

This AD is effective December 9, 2016.

(b) Affected ADs

This AD replaces AD 2012-24-06, Amendment 39-17276 (77 FR 73279, December 10, 2012) ("AD 2012-24-06").

(c) Applicability

This AD applies to Saab AB, Saab Aeronautics (formerly known as Saab AB, Saab Aerosystems) Model 340A (SAAB/SF340A) and SAAB 340B airplanes, certificated in any category, as identified in paragraphs (c)(1) and (c)(2) of this AD.

(1) Model 340A (SAAB/SF340A) airplanes, serial numbers 004 through 159 inclusive.

(2) Model SAAB 340B airplanes, serial numbers 160 through 459 inclusive, except serial numbers 170, 342, 362, 363, 367, 372, 379, 385, 395, 405, 409, 431, 441, and 455.

(d) Subject

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

(e) Reason

This AD was prompted by a determination that airplanes with certain modifications were excluded from the applicability in AD 2012-24-06, and are affected by the identified unsafe condition; and the stall warning computer (SWC) required by AD 2012-24-06 contained erroneous logic. We are issuing this AD to prevent natural stall events during operation in icing conditions, 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) Deactivation of Stall Speed Curves

For airplanes identified in paragraphs (g)(1) and (g)(2) of this AD: Within 30 days after the effective date of this AD, do the deactivation specified in paragraph (g)(1) or (g)(2) of this AD, as applicable to airplane configuration, in accordance with the Accomplishment Instructions of Saab Service Bulletin 340-27-116, dated October 18, 2013.

(1) For airplanes with a basic wing tip that has been modified using Saab Service Bulletin 340-27-098: Deactivate the stall speed curves in the SWC having part number (P/N) 0020AK6.

(2) For airplanes with an extended wing tip that has been modified using Saab Service Bulletin 340-27-099: Deactivate the stall speed curves in the SWC having P/N 0020AK7.

(h) Replacement of SWCs

Within 3 months after the effective date of this AD: Do the replacement specified in paragraph (h)(1) or (h)(2) of this AD, as applicable.

(1) For airplanes with basic wing tips: Replace all SWCs with new, improved SWCs having P/N 0020AK6-1, in accordance with the Accomplishment Instructions of Saab Service Bulletin 340-27-121, dated July 11, 2014.

(2) For airplanes with extended wing tips: Replace all SWCs with new, improved SWCs having P/N 0020AK7-1, in accordance with the Accomplishment Instructions of Saab Service Bulletin 340-27-122, dated July 11, 2014.

(i) Concurrent Modification

Before or concurrently with the accomplishment of the applicable requirements of paragraph (h) of this AD, do the actions specified in paragraph (i)(1) or (i)(2) of this AD, as applicable to airplane configuration.

(1) For airplanes on which either Saab AB Modification 2650 or Modification 2859 is not installed: Modify the stall warning and identification system, in accordance with the Accomplishment Instructions of Saab Service Bulletin 340-27-120, dated July 11, 2014.

(2) For airplanes on which either Saab AB Modification 2650 or Modification 2859 is installed, or on which both modifications are installed: Modify the stall warning and identification system, in accordance with the Accomplishment Instructions of Saab Service Bulletin 340-27-109, dated April 14, 2014.

(j) Parts Installation Prohibitions

After the replacement required by paragraph (h) of this AD, no person may install any SWC having P/N 0020AK, 0020AK1, 0020AK2, 0020AK4, 0020AK6, 0020AK7, or 0020AK3 MOD 1, on any airplane.

(k) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Branch, ANM-116, Transport Airplane Directorate, 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 ATTN: Shahram Daneshmandi, Aerospace Engineer, International Branch, ANM-116, Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone 425-227-1112; fax 425-227-1149. 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. The AMOC approval letter must specifically reference this AD.

(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 Branch, ANM-116, Transport Airplane Directorate, FAA; or the European Aviation Safety Agency (EASA); or Saab AB, Saab Aeronautics' EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(l) Related Information

Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA Airworthiness Directive 2014-0218, dated September 29, 2014, 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-2015-6544.

(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) Saab Service Bulletin 340-27-109, dated April 14, 2014.

(ii) Saab Service Bulletin 340-27-116, dated October 18, 2013.

(iii) Saab Service Bulletin 340-27-120, dated July 11, 2014.

(iv) Saab Service Bulletin 340-27-121, dated July 11, 2014.

(v) Saab Service Bulletin 340-27-122, dated July 11, 2014.

(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; Internet http://www.saabgroup.com.

(4) You may view this service information at the FAA, Transport Airplane Directorate, 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 25, 2016.
Dionne Palermo,
Acting Manager, Transport Airplane Directorate,
Aircraft Certification Service.

2016-22-18 The Boeing Company: Amendment 39-18707; Docket No. FAA-2016-9306; Directorate Identifier 2016-NM-169-AD.

(a) Effective Date

This AD is effective November 21, 2016.

(b) Affected ADs

None.

(c) Applicability

This AD applies to all The Boeing Company Model MD-90-30 airplanes, certificated in any category.

(d) Subject

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

(e) Unsafe Condition

This AD was prompted by a report of cracking in various structures in the fuselage cant station 1520 bulkhead. We are issuing this AD to detect and correct cracking in the bulkhead, 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) Detailed Inspection of the Cant Station 1520 Bulkhead

At the applicable time specified in paragraph 1.E., "Compliance," of Boeing Alert Service Bulletin MD90-53A037, dated September 19, 2016, except as required by paragraph (j) of this AD: On the left and right sides at the cant station 1520 bulkhead, do a detailed inspection of the forward and aft surfaces, for any crack in the upper cap and (cap) doubler, webs and doublers, stiffeners, and the lower tee cap between longerons 3 through 11, in accordance with the Accomplishment Instructions of Boeing Alert Service Bulletin MD90-53A037, dated September 19, 2016.

(h) Repair of Cracks in the Bulkhead Web or Doubler

If any crack is found in the bulkhead web or doubler, do the repair in accordance with Boeing Alert Service Bulletin MD90-53A037, dated September 19, 2016. Do all repairs before further flight.

(i) Repair of Non-Web or Non-Doubler Cracks in the Bulkhead

If any non-web or non-doubler crack is found in the bulkhead, repair before further flight using a method approved in accordance with the procedures specified in paragraph (l) of this AD.

(j) Service Information Exception

Where paragraph 1.E., "Compliance," of Boeing Alert Service Bulletin MD90-53A037, dated September 19, 2016, specifies a compliance time "after the original issue date of this service bulletin," this AD requires compliance within the specified compliance time after the effective date of this AD.

(k) Special Flight Permit

Special flight permits may be issued in accordance with sections 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) to operate the airplane to a location where the airplane can be repaired, but if any crack is found as identified in Boeing Alert Service Bulletin MD90-53A037, dated September 19, 2016, concurrence by the Manager, Los Angeles Aircraft Certification Office (ACO), FAA, is required before issuance of the special flight permit.

(l) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Los Angeles ACO, 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, send it to the attention of the person identified in paragraph (m) of this AD. Information may be emailed to: 9-ANM-LAACO-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, Los Angeles ACO, 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) Except as required by paragraph (j) of this AD: For service information that contains steps that are labeled as Required for Compliance (RC), the provisions of paragraphs (l)(4)(i) and (l)(4)(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.

(m) Related Information

For more information about this AD, contact George Garrido, Aerospace Engineer, Airframe Branch, ANM-120L, FAA, Los Angeles Aircraft Certification Office (ACO), 3960 Paramount Boulevard, Lakewood, CA 90712-4137; phone: 562-627-5232; fax: 562-627-5210; email: george.garrido@faa.gov.

(n) Material Incorporated by Reference

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

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

(i) Boeing Alert Service Bulletin MD90-53A037, dated September 19, 2016.

(ii) Reserved.

(3) For service information identified in this AD, contact Boeing Commercial Airplanes, Attention: Contractual & Data Services (C&DS), 2600 Westminster 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 Airplane Directorate, 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 26, 2016.
Dionne Palermo,
Acting Manager, Transport Airplane Directorate,
Aircraft Certification Service.

2016-23-01 Airbus: Amendment 39-18708; Docket No. FAA-2015-3985; Directorate Identifier 2014-NM-182-AD.

(a) Effective Date

This AD is effective December 15, 2016.

(b) Affected ADs

This AD replaces AD 2010-04-03, Amendment 39-16196 (75 FR 6852, February 12, 2010) ("AD 2010-04-03").

(c) Applicability

This AD applies to all Airbus Model A310-203, -204, -221, -222, -304, -322, -324, and -325 airplanes, certificated in any category, all manufacturer serial numbers.

(d) Subject

Air Transport Association (ATA) of America Code 57, Wings.

(e) Reason

This AD was prompted by the development of an ultrasonic inspection program to allow for earlier crack detection and extended repetitive inspection intervals. We are issuing this AD to detect and correct fatigue cracking around the fastener holes in certain wing top skin panels between the front and rear spars on the left- and right-hand sides of the fuselage, 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) Repetitive Inspections

Except as required by paragraph (i) of this AD: Within the initial compliance time and thereafter at the repetitive intervals specified in paragraphs (h)(1) through (h)(3) of this AD, as applicable, accomplish the actions specified in paragraphs (g)(1) and (g)(2) of this AD concurrently and in sequence, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A310-57-2096, Revision 03, dated June 30, 2015, except as provided by paragraph (j) of this AD.

(1) Accomplish a detailed inspection for cracking around the fastener holes in the wing top skin panels 1 and 2, along ribs 2 and 3, between the front and rear spars on the left- and right-hand sides of the fuselage.

(2) Accomplish an ultrasonic inspection for cracking around the fastener holes in the wing top skin panels 1 and 2, along ribs 2 and 3, between stringer (STG) 2 and STG10 on the left- and right-hand sides of the fuselage.

(h) Compliance Times for Airplanes Not Previously Inspected

(1) For Model A310-203, -204, -221, and -222 airplanes: Do the actions required by paragraphs (g)(1) and (g)(2) of this AD at the later of the times specified in paragraphs (h)(1)(i) and (h)(1)(ii) of this AD. Repeat the inspections specified in paragraphs (g)(1) and (g)(2) of this AD thereafter at intervals not to exceed 2,000 flight cycles or 4,100 flight hours, whichever occurs first.

(i) Prior to the accumulation of 18,700 flight cycles or 37,400 flight hours since first flight of the airplane, whichever occurs first.

(ii) Within 30 days after the effective date of this AD.

(2) For Model A310-304, -322, -324, and -325 airplanes having an average flight time (AFT) of less than 4 hours: Do the actions required by paragraphs (g)(1) and (g)(2) of this AD at the later of the times specified in paragraphs (h)(2)(i) and (h)(2)(ii) of this AD. Repeat the inspections specified in paragraphs (g)(1) and (g)(2) of this AD thereafter at intervals not to exceed 2,000 flight cycles or 5,600 flight hours, whichever occurs first.

(i) Prior to the accumulation of 17,300 flight cycles or 48,400 flight hours since first flight of the airplane, whichever occurs first.

(ii) Within 30 days after the effective date of this AD.

(3) For Model A310-304, -322, -324, and -325 airplanes having an AFT of equal to or more than 4 hours: Do the actions required by paragraphs (g)(1) and (g)(2) of this AD at the later of the times specified in paragraphs (h)(3)(i) and (h)(3)(ii) of this AD. Repeat the inspections specified in paragraphs (g)(1) and (g)(2) of this AD thereafter at intervals not to exceed 1,500 flight cycles or 7,500 flight hours, whichever occurs first.

(i) Prior to the accumulation of 12,800 flight cycles or 64,300 flight hours since first flight of the airplane, whichever occurs first.

(ii) Within 30 days after the effective date of this AD.

(i) Compliance Times for Airplanes Previously Inspected

For airplanes previously inspected before the effective date of this AD using Airbus Service Bulletin A310-57-2096, dated May 6, 2008; Airbus Service Bulletin A310-57-2096, Revision 01, dated August 5, 2010; or Airbus Service Bulletin A310-57-2096, Revision 02, dated March 5, 2014: At the applicable compliance times specified in paragraphs (i)(1), (i)(2), and (i)(3) of this AD, accomplish the actions specified in paragraphs (g)(1) and (g)(2) concurrently and in sequence, in accordance with the Accomplishment Instructions of Airbus Service Bulletin A310-57-2096, Revision 03, dated June 30, 2015. Repeat the inspections specified in paragraphs (g)(1) and (g)(2) of this AD thereafter at the repetitive intervals specified in paragraphs (h)(1), (h)(2), and (h)(3) of this AD, as applicable.

(1) For Model A310-203, -204, -221, and -222 airplanes: Do the actions required by paragraphs (g)(1) and (g)(2) of this AD within 3,500 flight hours or 1,700 flight cycles, whichever occurs first since the most recent inspection.

(2) For Model A310-304, -322, -324, and -325 airplanes having an AFT of less than 4 hours: Do the actions required by paragraphs (g)(1) and (g)(2) of this AD within 4,600 flight hours or 1,600 flight cycles, whichever occurs first since the most recent inspection.

(3) For Model A310-304, -322, -324, and -325 airplanes having an AFT of equal to or more than 4 hours: Do the actions required by paragraphs (g)(1) and (g)(2) of this AD within 6,100 flight hours or 1,200 flight cycles, whichever occurs first since the most recent inspection.

(j) Compliance Times if No Ultrasonic Equipment is Available

If no ultrasonic equipment is available for the initial or second inspection required by paragraph (g) or (h) of this AD, accomplish the detailed inspection specified in paragraph (g)(1) of this AD within the applicable compliance times specified in paragraphs (j)(1) and (j)(2) of this AD. After accomplishing the detailed inspection, do the inspections specified in paragraphs (g)(1) and (g)(2) of this AD at the applicable compliance times specified by paragraphs (i)(1), (i)(2), and (i)(3) of this AD. Subsequently, repeat the inspections specified in paragraphs (g)(1) and (g)(2) of this AD thereafter at the applicable repetitive intervals specified in paragraphs (h)(1), (h)(2), and (h)(3) of this AD.

(1) For airplanes not previously inspected before the effective date of this AD using the service information identified in paragraph (j)(2)(i), (j)(2)(ii), or (j)(2)(iii) of this AD: Do the actions required by paragraph (g)(1) of this AD within the initial compliance time specified by paragraphs (h)(1), (h)(2), and (h)(3) of this AD, as applicable.

(2) For airplanes previously inspected before the effective date of this AD using the service information identified in paragraph (j)(2)(i), (j)(2)(ii), or (j)(2)(iii) of this AD: Do the actions required by paragraph (g)(1) of this AD within the applicable compliance times specified in paragraphs (i)(1), (i)(2), and (i)(3) of this AD.

(i) Airbus Service Bulletin A310-57-2096, dated May 6, 2008.

(ii) Airbus Service Bulletin A310-57-2096, Revision 01, dated August 5, 2010.

(iii) Airbus Service Bulletin A310-57-2096, Revision 02, dated March 5, 2014.

(k) Repair of Cracking

If any cracking is found during any inspection required by paragraph (g), (h), (i), or (j) of this AD, before further flight, repair the cracking using a method approved by the Manager, International Branch, ANM-116, Transport Airplane Directorate, FAA; or the European Aviation Safety Agency (EASA); or Airbus's EASA Design Organization Approval (DOA). Accomplishing the repair specified in this paragraph terminates the repetitive inspections required by paragraph (g), (h), (i), or (j) of this AD, as applicable, for the repaired area only.

(l) Definition of Average Flight Time (AFT)

For the purposes of this AD, the AFT should be established as specified in paragraphs (l)(1), (l)(2), and (l)(3) of this AD for the determination of the compliance times.

(1) The inspection threshold is defined as the total flight hours accumulated (counted from take-off to touch-down), divided by the total number of flight cycles accumulated at the effective date of this AD.

(2) The initial inspection interval is defined as the total flight hours accumulated divided by the total number of flight cycles accumulated at the time of the initial inspection threshold.

(3) The second inspection interval is defined as the total flight hours accumulated divided by the total number of flight cycles accumulated between the initial and second inspection threshold. For all inspection intervals onwards, the average flight time is the flight hours divided by the flight cycles accumulated between the last two inspections.

(m) Credit for Previous Actions

This paragraph provides credit for the actions required by paragraph (g)(1) of this AD, if those actions were performed before the effective date of this AD using the applicable service information identified in paragraph (m)(1), (m)(2), or (m)(3) of this AD.

(1) Airbus Service Bulletin A310-57-2096, dated May 6, 2008, which was incorporated by reference in AD 2010-04-03.

(2) Airbus Service Bulletin A310-57-2096, Revision 01, dated August 5, 2010, which is not incorporated by reference in this AD.

(3) Airbus Service Bulletin A310-57-2096, Revision 02, dated March 5, 2014, which is not incorporated by reference in this AD.

(n) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Branch, ANM-116, Transport Airplane Directorate, 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 ATTN: Dan Rodina, Aerospace Engineer, International Branch, ANM-116, Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone 425-227-2125; fax 425-227-1149. 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. The AMOC approval letter must specifically reference this AD.

(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 Branch, ANM-116, Transport Airplane Directorate, FAA; or the EASA; or Airbus's EASA DOA. If approved by the DOA, the approval must include the DOA-authorized signature.

(3) Required for Compliance (RC): Except as required by paragraph (k) 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.

(o) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA Airworthiness Directive 2016-0005, dated January 7, 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-2015-3985.

(2) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (p)(4) and (p)(5) of this AD.

(p) 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 December 15, 2016.

(i) Airbus Service Bulletin A310-57-2096, Revision 03, dated June 30, 2015.

(ii) Reserved.

(4) For service information identified in this AD, contact Airbus SAS, Airworthiness Office–EAW, 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; Internet http://www.airbus.com.

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

(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 Renton, Washington, on October 28, 2016.

Dionne Palermo,

Acting Manager, Transport Airplane Directorate,

Aircraft Certification Service.