

**FEDERAL AVIATION ADMINISTRATION  
AIRWORTHINESS DIRECTIVES**

**LARGE AIRCRAFT**

**BIWEEKLY 2014-21**

*10/6/2014 - 10/19/2014*



Federal Aviation Administration  
Engineering Procedures Office, AIR-110  
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# LARGE AIRCRAFT

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

## Biweekly 2014-01

2013-25-04		Embraer S.A.	ERJ 170-100 LR, -100 STD, -100 SE., -100 SU, ERJ 170-200 LR, -200 SU, -200 STD, ERJ 190-100 STD, -100 LR, -100 ECJ, -100 IGW, ERJ 190-200 STD, -200 LR, and -200 IGW
2013-25-06		Airbus	A318-111, -112, -121, -122, A319-111, -112, -113, -114, -115, -131, -132, -133, A320-111, -211, -212, -214, -231, -232, -233, A321-111, -112, -131, -211, -212, -213, -231, and -232
2013-26-01 2013-26-02		CFM International S.A. Bombardier, Inc.	CFM56-3 series and CFM56-7B series turbofan engines CL-600-2C10 (Regional Jet Series 700, 701, & 702), CL-600-2D15 (Regional Jet Series 705) and CL-600-2D24 (Regional Jet Series 900)
2013-26-03	S 2011-24-09	Airbus	A340-211, A340-212, A340-213, A340-311, A340-312, A340-313, A340-541, and A340-642
2013-26-04 2013-26-06	S 2010-19-01	The Boeing Company Rolls-Royce Corporation	747-400, -400D, and -400F series AE 3007A, A1, A1/1, A1/2, A1/3, A1P, A1E, and A3 turbofan engines
2013-26-07		Airbus	A318-111, -112, -121, -122, A319-111, -112, -113, -114, -115, -131, -132, -133, A320-111, -211, -212, -214, -231, -232, -233, A321-111, -112, -131, -211, -212, -213, -231, and -232
2013-26-08 2013-26-10		The Boeing Company Rolls-Royce plc	737-600, -700, -700C, -800, -900, and -900ER series RB211-524G2-19, RB211-524G3-19, RB211-524H-36, and RB211-524H2-19 turbofan engines
2013-26-12	S 2009-14-02	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

## Biweekly 2014-02

There were no AD's published in this Large Bi-weekly period

## Biweekly 2014-03

2013-24-04	S 2003-19-11	Learjet Inc.	60
2013-25-03	S 2000-17-05 S 2001-04-09	The Boeing Company	767-200, -300, -300F, and -400ER series
2014-01-04		Bae Systems (Operations) Limited	BAe 146-100A, -200A, -300A, Avro 146-RJ70A, 146-RJ85A, and 146-RJ100A
2014-01-05 2014-02-01	S 2011-03-13	The Boeing Company Bombardier, Inc.	737-100, -200, -200C, -300, -400, and -500 series CL-600-2C10 (Regional Jet Series 700, 701, & 702), CL-600-2D15 (Regional Jet Series 705), and CL-600-2D24 (Regional Jet Series 900)

## Biweekly 2014-04

2014-03-07 2014-03-08	S 2009-26-16	The Boeing Company Airbus	MD-11 and MD-11F A318-111, -112, -121, -122, A319-111, -112, -113, -114, -115, -131, -132, -133, A320-111, -211, -212, -214, -231, -232, -233, A321-111, -112, -131, -211, -212, -213, -231, and -232
2014-03-09		ATR-GIE Avions de Transport Régional	ATR42-200, -300, -320, -500, ATR72-101, -201, -102, -202, -211, -212, and -212A
2014-03-14		Airbus	A330-201, -202, -203, -223, -243, -301, -302, -303, -321, -322, -323, -341, -342, -343, A340-211, -212, -213, -311, -312, -313, -541, and -642
2014-03-16		Rolls-Royce Deutschland Ltd & Co. KG	Tay 620-15, 650-15, and 651-54 turbofan engines
2014-03-17		Bombardier, Inc.	CL-600-1A11 (CL-600), CL-600-2A12 (CL-601), CL-600-2B16 (CL-601-3A, CL-601-3R, & CL-604 Variants)

## Biweekly 2014-05

2014-01-03 2014-03-04 2014-03-05 2014-03-06		Saab AB, Saab Aerosystems Bombardier, Inc. Bombardier, Inc. Boeing	340A (SAAB/SF340A) and SAAB 340B DHC-8-400, -401, and -402 BD-700-1A10 737-100, -200, -200C, -300, -400, and -500 series
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## LARGE AIRCRAFT

AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes, R - Replaces			
2014-03-12	S 2002-23-19	Dassault Aviation	FALCON 2000
2014-03-13		Fokker Services B.V.	F.28 Mark 0070 and 0100
2014-03-15	S 2008-14-16	328 Support Services GmbH	328-100, 328-300
2014-03-19		Boeing	737-600, -700, -800, -900, and -900ER series
2014-03-21		Boeing	727-200 and 727-200F series
2014-04-05		Boeing	737-100, -200, -200C, -300, -400, and -500 series
2014-04-08		Bombardier, Inc.	CL-600-2B19 (Regional Jet Series 100 & 440)
2014-05-02	S 2002-10-11	Boeing	737-100, -200, -200C, -300, -400, and -500 series
2014-05-03		Boeing	777-200, -200LR, -300, -300ER, and -777F series
2014-05-05		Boeing	777-200, -200LR, -300, -300ER, and 777F series
<b>Biweekly 2014-06</b>			
2014-05-09	S 2012-12-08	Boeing	777-200 and -300 series
2014-05-12	S 2010-15-08	Boeing	737-100, -200, -200C, -300, -400, and -500 series
2014-05-13	S 2004-12-07	Boeing	757-200, -200PF, and -200CB series
2014-05-16		Boeing	747-200B, 747-300, 747-400, 747-400D, 747-400F, 767-200, -300, -300F, and -400ER series
2014-05-18		Bombardier	DHC-8-400, -401, and -402
2014-05-19		Boeing	747-200B, 747-200F, 747-300, 747SP, 747-400, 747-400F, 767-300 series
2014-05-20		Boeing	757-200, -200PF, -200CB, and -300 series
2014-05-21	S 2008-11-04	Boeing	737-100, -200, -200C, -300, -400, and -500 series
2014-05-22		Boeing	717-200
2014-05-23		Bombardier	BD-100-1A10 (Challenger 300)
2014-05-24	S 84-19-01	Boeing	747-100, 747-200B, and 747-200F series
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
2014-05-30	S 2013-07-07	Boeing	737-600, -700, -700C, -800, -900, and -900ER series
2014-06-02		Boeing	747-400 series
<b>Biweekly 2014-07</b>			
2013-26-14	S 2008-08-04	Airbus	A318, A319, A320, A321
2014-04-09		Boeing	727, 727C, 727-100, 727-100C, 727-200, and 727-200F series
2014-04-10		Airbus	A330, A340 airplanes
2014-05-14		Boeing	727, 727C, 727-100, 727-100C, 727-200, and 727-200F series
2014-05-17		Bombardier	DHC-8-102, -103, -106, -201, -202, -301, -311, and -315
2014-05-27		Rockwell Collins	Mode S transponders
2014-05-28		Bombardier	DHC-8-400, -401, and -402
2014-05-31	S 2008-08-25	Boeing	747-400F, 747-400 series
2014-05-32		Pratt & Whitney	PW2037, PW2037D, PW2037M, PW2040, PW2040D, PW2043, PW2143, PW2240, PW2337, PW2643, and F117-PW-100 turbofan engines
2014-06-04		Boeing	747-8 and 747-8F series
2014-06-05	S 2007-03-02	Rolls-Royce Deutschland	Tay 620-15, Tay 650-15 and Tay 651-54 turbofan engines
2014-06-08		Bombardier	DHC-8-101, -102, -103, -106, -201, -202, -301, -311, and -315
2014-06-09	S 2009-18-18	ATR-GIE Avions de Transport Régional	ATR42-200, -300, -320, -500 ; ATR72-101, -201, -102, -202, -211, -212, and -212A
2014-06-10	S 2014-06-10	Airbus	A330, A340
2014-07-02		Rolls-Royce Deutschland	BR700-715A1-30, BR700-715B1-30, and BR700-715C1-30 turbofan engines

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AD No.	Information	Manufacturer	Applicability
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<b>Biweekly 2014-08</b>			
2014-05-32	COR	Pratt & Whitney	PW2037, PW2037D, PW2037M, PW2040, PW2040D, PW2043, PW2143, PW2240, PW2337, PW2643, and F117-PW-100 turbofan engines
2014-07-03		Fokker Services B.V.	F.28 Mark 0070 and 0100
2014-07-05		Fokker Services B.V.	F.28 Mark 0070 and 0100
2014-08-02		Airbus	A300 B4-601, B4-603, B4-620, B4-622, A300 B4-605R and B4-622R
2014-08-03		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), and CL-600-2E25 (Regional Jet Series 1000)
2014-08-05		Rolls-Royce Deutschland Ltd & Co KG	BR700-715A1-30, BR700-715B1-30, and BR700-715C1-30 turbofan engines
<b>Biweekly 2014-09</b>			
2013-25-02	S 2000-11-06	The Boeing Company	767-200, -300, -300F, and -400ER series
2014-07-01		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
2014-08-01	S 2014-03-08	Airbus	A318-111, -112, -121, -122, A319-111, -112, -113, -114, -115, -131, -132, -133, A320-111, -211, -212, -214, -231, -232, -233, A321-111, -112, -131, -211, -212, -213, -231, and -232
2014-08-04	S 2012-03-04	Airbus	A310-203, -204, -221, -222, -304, -322, -324, and -325
2014-08-08		The Boeing Company	737-200, -200C, -300, -400, and -500 series
2014-08-09		The Boeing Company	767-200, -300, -300F, and -400ER series
2014-08-11	S 2009-24-07	The Boeing Company	737-600, -700, -700C, -800 and -900 series
2014-09-05		Airbus	A330-201, A330-202, A330-203, A330-223, A330-243, A330-301, A330-302, A330-303, A330-321, A330-322, A330-323, A330-341, A330-342, A330-343, A340-211, A340-212, A340-213, A340-311, A340-312, and A340-313
2014-09-06		The Boeing Company	777F series
<b>Biweekly 2014-10</b>			
2014-09-08	S 2007-16-19	The Boeing Company	747-200B, 747-300, and 747-400 series
2014-09-10		The Boeing Company	767-200, -300, -300F, and -400ER series
<b>Biweekly 2014-11</b>			
2014-09-07		The Boeing Company	757-200, -200PF, -200CB, and -300 series
2014-09-09		The Boeing Company	777-200, -200LR, -300, -300ER, and 777F series
<b>Biweekly 2014-12</b>			
2008-21-07R1		Dowty Propellers	R408/6-123-F/17 propellers
2014-11-01		The Boeing Company	777-200 and -300 series
2014-11-04		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
2014-11-06		Lockheed	P-3A or P3A
2014-12-03		Rolls-Royce Deutschland	BR700-725A1-12 turbofan engines
2014-12-52	E	Honeywell International	TFE731-4, -4R, -5AR, -5BR, -5R, -20R, -20AR, -20BR, -40, 40AR, -40R, -40BR, -50R, and -60 turbofan engines
<b>Biweekly 2014-13</b>			
2014-12-06		Airbus	A300 B4-601, B4-603, B4-620, B4-622, A300 B4-605R, B4-622R, A300 F4-605R, F4-622R, A300 C4-605R Variant F, A310-203, -204, -221, -222, -304, -322, -324, and -325
2014-12-10		The Boeing Company	727-100 series
2014-13-03		Rolls-Royce plc	RB211 Trent 553-61, 553A2-61, 556-61, 556A2-61, 556B-61, 556B2-61, 560-61, and 560A2-61 turbofan engines

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### Biweekly 2014-14

2014-12-02		Dassault Aviation	FALCON 2000 and FALCON 2000EX
2014-12-13		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series
2014-12-52	S 2014-12-52	Honeywell International Inc.	TFE731-4, -4R, -5AR, -5BR, -5R, -20R, -20AR, -20BR, -40, -40AR, -40R, -40BR, -50R, and -60 turbofan engines
2014-13-02		Rolls-Royce plc	RB211-Trent 875-17, 877-17, 884-17, 884B-17, 892-17, 892B-17, and 895-17 turbofan engines
2014-14-01		Rolls-Royce plc	RB211 Trent 768-60, 772-60, and 772B-60 turbofan engines
2014-14-02		Pratt & Whitney Canada Corp.	PW120, PW121, PW121A, PW124B, PW127, PW127E, PW127F, PW127G and PW127M turboprop engines

**Biweekly 2014-15** (AD 2014-15-01 was originally left off this Biweekly, but was added Oct. 23, 2014, and also will be included in Large AD Biweekly 2014-22)

2014-11-03		The Boeing Company	777-200, -200LR, -300, and -300ER series airplanes
2014-11-10	S 2008-08-09	Bombardier	CL-600-2B19 (Regional Jet Series 100 & 440) airplanes
2014-13-06		Learjet Inc.	45 airplanes
2014-13-07		The Boeing Company	737-300, -400, and -500 series airplanes; 737-600, -700, -700C, -800, -900, and -900ER series airplanes
2014-13-10		The Boeing Company	737-600, -700, -700C, -800, -900, and -900ER series airplanes
2014-13-11		The Boeing Company	707-100 long body, -200, -100B long body, and -100B short body series airplanes; 720 and 720B series airplanes
2014-13-14		Airbus	A310-203, -204, -221, -222, -304, -322, -324, and -325 airplanes
2014-13-15		EADS CASA	CN-235-300 airplanes
2014-13-16		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) airplanes
2014-13-17		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 airplanes
2014-13-18		Bombardier, Inc.	DHC-8-102, -103, -106, -201, -202, -301, -311, and -315 airplanes
2014-14-03	S 2014-07-01	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
2014-14-05		Airbus	A320-211, -212, and -231 airplanes
2014-14-06		Airbus	A318-111 and -112; A319-111, -112, -113, -114, and -115; A320-111, -211, -212, and -214; A321-111, -112, -211, -212, and -213 airplanes
2014-15-01		M7 Aerospace LLC	SA227-AT, SA227-AC, SA227-BC, SA227-CC, SA227-DC airplanes
2014-15-03		Pratt & Whitney Canada Corporation	PW150A turboprop engines

### Biweekly 2014-16

2014-13-12		Airbus	A318-111, -112, -121, -122, A319-111, -112, -113, -114, -115, -131, -132, -133, A320-111, -211, -212, -214, -231, -232, -233, A321-111, -112, -131, -211, -212, -213, -231, and -232
2014-13-13		Fokker Services B.V.	F.28 Mark 0070 and 0100
2014-14-04	S 2003-18-10	The Boeing Company	767-200, -300, -300F, and -400ER series
2014-15-04		Saab AB, Saab Aerosystems	SAAB 2000
2014-15-05		Airbus	A310-304, -322, -324, and -325
2014-15-06		The Boeing Company	747-100B SUD, 747-200B, 747-300, 747-400, and 747-400D series
2014-15-07		Bombardier, Inc.	DHC-8-102, -103, -106, -201, -202, -301, -311, and -315
2014-15-08		Beechcraft Corporation	Hawker 800XP, 850XP, and 900XP
2014-15-09		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, A340-541 and -642

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2014-15-10

Dassault Aviation

FALCON 7X

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Information Key: E - Emergency; COR - Correction; S – Supersedes, R - Replaces			
2014-15-11		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)
2014-15-12		The Boeing Company	737-600, -700, -700C, -800, -900, and -900ER series
2014-15-14		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
2014-15-15		Beechcraft Corporation	MU-300, 400, 400A, 400T (T-1A), and 400T (TX)
2014-15-16		Airbus	A319-111, -112, -115, -132, -133, A320-214, -232, -233, A321-211, -231, and -232
2014-15-17		Bombardier, Inc.	CL-600-2B16 (CL-604 Variant)
<b>Biweekly 2014-17</b>			
2013-13-13		Airbus	A310-203, -204, -221, -222, 304, -322, -324, -325, A300 B4-601, B4-603, B4-620, B4-622, B4-605R, B4-622R, F4-605R, F4-622R, and C4-605R Variant F
2014-15-13	R 2005-15-04	Bombardier, Inc.	CL-600-1A11 (CL-600), CL-600-2A12 (CL-601), CL-600-2B16 (CL-601-3A and CL-601-3R Variants), and CL-600-2B16 (CL-604 Variant)
2014-15-20		Bombardier, Inc.	DHC-8-400, -401, and -402
2014-15-21	S 2006-26-06	The Boeing Company	777-200 and -300 series
2014-16-02		Bombardier, Inc.	CL-600-1A11 (CL-600)
2014-16-04	R 2008-14-17	Airbus	A330-201, -202, -203, -223, -243, A340-311, -312, and -313
2014-16-06		Bombardier, Inc.	CL-600-2B16 (CL-604 Variant)
2014-16-07	R 2011-15-09	Bombardier, Inc.	DHC-8-400, -401, and -402
2014-16-08		Bombardier, Inc.	CL-215-6B11 (CL-215T Variant) and CL-215-6B11 (CL-415 Variant)
2014-16-09		The Boeing Company	707-100 long body, -200, -100B long body, and -100B short body, 707-300, -300B, -300C, and -400 series, 720 and 720B series, 727, 727C, 727-100, 727-100C, 727-200, and 727-200F series, 737-100, -200, and -200C series
2014-16-10	S 2013-12-01	Rolls-Royce plc	RB211 Trent 768-60, 772-60, and 772B-60 turbofan engines
2014-16-11		The Boeing Company	777-200 series
2014-16-14		The Boeing Company	737-600, -700, -700C, -800, and -900 series
2014-16-16		Embraer S.A.	ERJ 190-100 STD, -100 LR, -100 ECJ, -100 IGW, -200 STD, -200 LR, and -200 IGW
2014-16-19	See AD	Airbus	A330-201, -202, -203, -223, -243, -223F, -243F, -301, -302, -303, -321, -322, -323, -341, -342, and -343
2014-16-20		Airbus	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, and B4-203
2014-16-22		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, A340-541 and -642
2014-17-51	E	Bombardier, Inc.	CL-600-2B16
<b>Biweekly 2014-18</b>			
2014-16-05		Embraer S.A.	ERJ 170-100 LR, -100 STD, -100 SE, -100 SU, ERJ 170-200 LR, -200 SU, and -200 STD
2014-16-12		Dassault Aviation	FALCON 2000EX
2014-16-13		Airbus	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, and B4-203
2014-16-18		BAE Systems (Operations) Limited	BAe 146-100A, -200A, -300A, Avro 146-RJ70A, 146-RJ85A, and 146-RJ100A
2014-16-21		Dassault Aviation	FALCON 7X
2014-16-23	R 2011-16-01	Dassault Aviation	FALCON 7X
2014-16-25	R 2007-06-12	Airbus	A330-201, -202, -203, -223, -243, A330-301, -321, -322, -323, -341, -342, and -343
2014-16-26		Dassault Aviation	FALCON 900EX
2014-16-27		Dassault Aviation	FALCON 900EX
2014-16-28		Empresa Brasileira de Aeronautica S.A.	EMB-135BJ
2014-17-02	R 2013-18-09	Honeywell ASCa Inc	See AD
2014-17-04		Bombardier, Inc.	CL-600-2B19 (Regional Jet Series 100 & 440)

## LARGE AIRCRAFT

AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes, R - Replaces			
2014-17-05		The Boeing Company	767-400ER series
2014-17-06	R 2011-17-08	Airbus	A330-201, -202, -203, -223, -223F, -243, -243F, -301, -302, -303, -321, -322, -323, -341, -342, and -343
2014-17-07		Airbus	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, B4-203, A300 B4-601, B4-603, B4-620, B4-622, A300 B4-605R, B4-622R, A300 F4-605R, F4-622R, A300 C4-605R Variant F, A310-203, -204, -221, -222, -304, -322, -324, and -325
2014-17-10		Airbus	A318-111, -112, -121, -122, A319-111, -112, -113, -114, -115, -131, -132, -133, A320-211, -212, -214, -231, -232, -233, A321-111, -112, -131, -211, -212, -213, -231, and -232
2014-18-02	R 2014-05-02	The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series
<b>Biweekly 2014-19</b>			
2013-15-06		Bombardier, Inc.	DHC-8-102, -103, -106, -201, -202, -301, -311, and -315
2013-25-07	R 2007-18-09	Airbus	A318-111, -112, -121, -122, A319-111, -112, -113, -114, -115, -131, -132, -133, A320-111, -211, -212, -214, -231, -232, -233, A321-111, -112, -131, -211, -212, -213, -231, and -232
2013-26-05		Dassault Aviation	FAN JET FALCON, FAN JET FALCON SERIES C, D, E, F, G, MYSTERE-FALCON 200, MYSTERE-FALCON 20-C5, 20-D5, 20-E5, and 20-F5
2014-15-19	R 2013-03-23	Gulfstream Aerospace LP	G150
2014-19-02		Bombardier, Inc.	DHC-8-400, -401, and -402
<b>Biweekly 2014-20</b>			
2014-18-01		Rockwell Collins, Inc.	Appliance: See AD
2014-19-03		The Boeing Company	747-8 and 747-8F series
2014-19-04	R 2004-03-19	Airbus	A320-111, -211, -212, and -231
2014-20-01		Bombardier, Inc.	CL-600-2B16 (CL-601-3A, CL-601-3R, and CL-604 Variants)
2014-20-02		The Boeing Company	767-200, -300, -300F, and -400ER series
2014-20-03		Bombardier, Inc.	BD-700-1A10 and BD-700-1A11
2014-20-04	R 94-12-03	Airbus	A318-111, -112, -121, -122, A319-111, -112, -113, -114, -115, -131, -132, -133, A320-111, -211, -212, -214, -231, -232, -233, A321-111, -112, -131, -211, -212, -213, -231, and -232
2014-20-06		The Boeing Company	737-600, -700, -700C, -800, -900, -900ER series, 777-200, 777-200LR, 777-300, 777-300ER, and 777F series
2014-20-07	R 2010-03-05	The Boeing Company	747-200C and -200F series
2014-20-08		Lockheed Martin Corporation	L-1011-385-1, L-1011-385-1-14, L-1011-385-1-15, and L-1011-385-3
2014-20-09		Bombardier, Inc.	DHC-8-400, -401, and -402
<b>Biweekly 2014-21</b>			
2014-20-10	R 2013-11-14	The Boeing Company	777-200 and -300 series airplanes
2014-20-11	R 2011-07-05	Zodiac Seats France	9140, 9166, 9173, 9174, 9184, 9188, 9196, 91B7, 91B8, 91C0, 91C2, 91C4, 91C5, 91C9, 9301, and 9501 series passenger seat assemblies



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**2014-20-10 The Boeing Company:** Amendment 39-17983; Docket No. FAA-2014-0654; Directorate Identifier 2014-NM-071-AD.

**(a) Effective Date**

This AD is effective October 22, 2014.

**(b) Affected ADs**

This AD replaces AD 2013-11-14, Amendment 39-17474 (78 FR 35749, June 14, 2013).

**(c) Applicability**

This AD applies to The Boeing Company Model 777-200 and -300 series airplanes, certificated in any category, equipped with Pratt & Whitney PW4000 series engines.

**(d) Subject**

Air Transport Association (ATA) of America Code 54, Nacelles/pylons.

**(e) Unsafe Condition**

This AD was prompted by reports of hydraulic fluid contamination (including contamination caused by hydraulic fluid in its liquid, vapor, and/or solid (coked) form) found in the strut forward dry bay. We are issuing this AD to detect and correct hydraulic fluid contamination of the strut forward dry bay, which could result in hydrogen embrittlement of the titanium forward engine mount bulkhead fittings, and consequent inability of the fittings to carry engine loads, resulting in engine separation. Hydrogen embrittlement also could cause a through-crack formation across the fittings through which an engine fire could breach into the strut, resulting in an uncontained strut fire.

**(f) Compliance**

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

**(g) Inspection**

At the applicable times specified in paragraph 1.E., "Compliance," of Boeing Special Attention Service Bulletin 777-54-0028, Revision 1, dated December 10, 2013, except as required by paragraph (h)(1) of this AD: Do a general visual inspection for hydraulic fluid contamination (including contamination caused by hydraulic fluid in its liquid, vapor, and/or solid (coked) form) of the interior of the strut forward dry bay, and do all applicable related investigative and corrective actions (including checking drain lines for blockage due to hydraulic fluid coking, and cleaning or replacing drain lines to allow drainage, as applicable), in accordance with the Accomplishment Instructions of Boeing Special Attention Service Bulletin 777-54-0028, Revision 1, dated December 10, 2013, except as required by paragraph (h)(2) of this AD. Repeat the inspection thereafter at the times

specified in paragraph 1.E., "Compliance," of Boeing Special Attention Service Bulletin 777-54-0028, Revision 1, dated December 10, 2013. Do all applicable related investigative and corrective actions at the times specified in paragraph 1.E., "Compliance," of Boeing Special Attention Service Bulletin 777-54-0028, Revision 1, dated December 10, 2013.

**(h) Exceptions to the Service Information**

(1) Where the Compliance Time column of paragraph 1.E., "Compliance," of Boeing Special Attention Service Bulletin 777-54-0028, Revision 1, dated December 10, 2013, refers to the compliance time "after the Revision 1 date of this service bulletin," this AD requires compliance after the effective date of this AD.

(2) Where Boeing Special Attention Service Bulletin 777-54-0028, Revision 1, dated December 10, 2013, specifies to contact Boeing for repair: At the applicable times specified in paragraph 1.E., "Compliance," of Boeing Special Attention Service Bulletin 777-54-0028, Revision 1, dated December 10, 2013, repair, using a method approved in accordance with the procedures specified in paragraph (j) of this AD.

**(i) 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 Special Attention Service Bulletin 777-54-0028, dated May 25, 2012.

**(j) 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 (k) of this AD. Information may be emailed to: 9-ANM-Seattle-ACO-AMOCRequests@faa.gov.

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

(3) An AMOC that provides an acceptable level of safety may be used for any repair 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. For a repair method to be approved, the repair must meet the certification basis of the airplane, and the approval must specifically refer to this AD.

(4) AMOCs approved for AD 2013-11-14, Amendment 39-17474 (78 FR 35749, June 14, 2013), are approved as AMOCs for the corresponding provisions of this AD.

**(k) Related Information**

For more information about this AD, contact Kevin Nguyen, Aerospace Engineer, Propulsion Branch, ANM-140S, FAA, Seattle Aircraft Certification Office, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone: 425-917-6501; fax: 425-917-6590; email: kevin.nguyen@faa.gov.

**(l) Material Incorporated by Reference**

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

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

(3) The following service information was approved for IBR on October 22, 2014.

(i) Boeing Special Attention Service Bulletin 777-54-0028, Revision 1, dated December 10, 2013.

(ii) Reserved.

(4) For Boeing service information identified in this AD, contact Boeing Commercial Airplanes, Attention: Data & Services Management, P.O. Box 3707, MC 2H-65, Seattle, WA 98124-2207; telephone 206-544-5000, extension 1; fax 206-766-5680; Internet <https://www.myboeingfleet.com>.

(5) You may view the referenced 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 September 23, 2014.

Dionne Palermo,  
Acting Manager, Transport Airplane Directorate,  
Aircraft Certification Service.



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**2014-20-11 Zodiac Seats France (formerly Sicma Aero Seat):** Amendment 39-17984. Docket No. FAA-2014-0730; Directorate Identifier 2013-NM-206-AD.

**(a) Effective Date**

This AD becomes effective October 22, 2014.

**(b) Affected ADs**

This AD replaces AD 2011-07-05, Amendment 39-16642 (76 FR 18020, April 1, 2011).

**(c) Applicability**

This AD applies to Zodiac Seats France 9140, 9166, 9173, 9174, 9184, 9188, 9196, 91B7, 91B8, 91C0, 91C2, 91C4, 91C5, 91C9, 9301, and 9501 series passenger seat assemblies; identified in Annex 1, Issue 3, dated January 25, 2012, of Sicma Aero Seat Service Bulletin 90-25-012, Issue 6, dated January 25, 2012. These passenger seat assemblies are installed on, but not limited to, the airplanes identified in paragraphs (c)(1), (c)(2) and (c)(3) of this AD, certificated in any category.

(1) Airbus Model A330-200, A330-200 Freighter, and A320-300 series airplanes.

(2) Airbus Model A340-200, A340-300, A340-500, and A340-600 series airplanes.

(3) The Boeing Company Model 777-200, 777-200LR, 777-300, 777-300ER, and 777F series airplanes.

**(d) Subject**

Air Transport Association (ATA) of America Code 25: Equipment/Furnishings.

**(e) Reason**

This AD was prompted by a report of cracks in the backrest links on certain seats. We are issuing this AD to detect and correct cracks in the backrest links, which could affect the structural integrity of seat backrests. Failure of the backrest links could result in injury to an occupant during emergency landing conditions.

**(f) Compliance**

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

**(g) Repetitive Inspections**

At the later of the times specified in paragraphs (g)(1) and (g)(2) of this AD: Do a general visual inspection for cracking of seat backrest links having part number (P/N) 90-000200-104-1, P/N 90-000200-104-2, P/N 90-000202-104-1 and P/N 90-000202-104-2, in accordance with the "PART ONE: GENERAL INTERMEDIATE CHECKING PROCEDURE" of the Accomplishment Instructions of Sicma Aero Seat Service Bulletin 90-25-012, Issue 6, dated January 25, 2012,

including Annex 1, Issue 3, dated January 25, 2012. If no cracking is found on any link, repeat the inspection thereafter at intervals not to exceed 900 flight hours on the seat or 5 months since the most recent inspection, whichever occurs later, until the replacement specified in paragraph (i) of this AD is done.

(1) Within 6,000 flight hours on the seat or 2 years, whichever occurs later after the seat manufacturing date or after the backrest link replacement.

(2) Within 900 flight hours on the seat after the effective date of this AD, but no later than 5 months after the effective date of this AD.

#### **(h) Corrective Actions**

(1) If, during any inspection required by paragraph (g) of this AD, any cracking is found on the link and no crack length exceeds the lock-out pin-hole as specified in Figure 2 or 4, as applicable, of Sicma Aero Seat Service Bulletin 90-25-012, Issue 6, dated January 25, 2012, including Annex 1, Issue 3, dated January 25, 2012: Within 600 flight hours on the seat or 3 months, whichever occurs later after crack identification, replace the cracked link with a new link, in accordance with "PART TWO: ROUTINE REPLACEMENT PROCEDURE (EXCEPT FOR SERIES 91B7, 91B8 & 91C5)" or "PART THREE: ROUTINE REPLACEMENT PROCEDURE (FOR SERIES 91B7, 91B8 & 91C5)" of the Accomplishment Instructions of Sicma Aero Seat Service Bulletin 90-25-012, Issue 6, dated January 25, 2012, including Annex 1, Issue 3, dated January 25, 2012.

(2) If, during any inspection required by paragraph (g) of this AD, any cracking is found on the link and any crack length exceeds the lock-out pin-hole as specified in Figure 2 or 4, as applicable, of Sicma Aero Seat Service Bulletin 90-25-012, Issue 6, dated January 25, 2012, including Annex 1, Issue 3, dated January 25, 2012: Before further flight, replace the cracked link with a new link, in accordance with "PART TWO: ROUTINE REPLACEMENT PROCEDURE (EXCEPT FOR SERIES 91B7, 91B8 & 91C5)" or "PART THREE: ROUTINE REPLACEMENT PROCEDURE (FOR SERIES 91B7, 91B8 & 91C5)" of the Accomplishment Instructions of Sicma Aero Seat Service Bulletin 90-25-012, Issue 6, dated January 25, 2012, including Annex 1, Issue 3, dated January 25, 2012.

#### **(i) Replacement**

At the later of the times specified in paragraphs (i)(1) and (i)(2) of this AD: Replace all seat backrest links, having P/N 90-000200-104-1, P/N 90-000200-104-2, P/N 90-000202-104-1 and P/N 90-000202-104-2, with new links, in accordance with "PART TWO: ROUTINE REPLACEMENT PROCEDURE (EXCEPT FOR SERIES 91B7, 91B8 & 91C5)" or "PART THREE: ROUTINE REPLACEMENT PROCEDURE (FOR SERIES 91B7, 91B8 & 91C5)" of the Accomplishment Instructions of Sicma Aero Seat Service Bulletin 90-25-012, Issue 6, dated January 25, 2012, including Annex 1, Issue 3, dated January 25, 2012.

(1) Within 12,000 flight hours on the seat or 4 years, whichever occurs later after from the seat manufacturing date or after the backrest link replacement.

(2) Within 3,500 flight hours on the seat after the effective date of this AD, but no later than 18 months after the effective date of this AD.

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

This paragraph provides credit for actions required by paragraphs (g), (h), and (i) of this AD, if those actions were performed before the effective date of this AD using the service information specified in paragraph (j)(1), (j)(2), or (j)(3) of this AD.

(1) Sicma Aero Seat Service Bulletin 90-25-012, Issue 3, dated October 3, 2001, which is not incorporated by reference in this AD.

(2) Sicma Aero Seat Service Bulletin 90-25-012, Issue 4, dated December 19, 2001, which is not incorporated by reference in this AD.

(3) Sicma Aero Seat Service Bulletin 90-25-012, Issue 5, dated March 19, 2004, including Annex 1, Issue 2, dated March 19, 2004, which is incorporated by reference in AD 2011-07-05, Amendment 39-16642 (76 FR 18020, April 1, 2011).

#### **(k) Other FAA AD Provisions**

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, Boston 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 ACO, send it to ATTN: Jeffrey Lee, Aerospace Engineer, Boston Aircraft Certification Office, FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803; telephone (781) 238-7161; fax (781) 238-7199. 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, Boston Aircraft Certification Office, FAA; or the European Aviation Safety Agency (EASA).

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

Refer to Mandatory Continuing Airworthiness Information (MCAI) European Aviation Safety Agency Airworthiness Directive 2012-0038, dated March 12, 2012, for related information. You may examine the MCAI on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2014-0730.

#### **(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) Sicma Aero Seat Service Bulletin 90-25-012, Issue 6, dated January 25, 2012, including Annex 1, Issue 3, dated January 25, 2012.

(ii) Reserved.

(3) For service information identified in this AD, contact Zodiac Seats France, 7, Rue Lucien Coupet, 36100 ISSOUDUN, France; telephone +33 (0) 2 54 03 39 39; fax +33 (0) 2 54 03 39 00; email [customerservices@sicma.zodiac.com](mailto:customerservices@sicma.zodiac.com); Internet <http://www.sicma.zodiac.aerospace.com/en/>.

(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 September 23, 2014.  
Dionne Palermo,  
Acting Manager, Transport Airplane Directorate,  
Aircraft Certification Service.