

# **FEDERAL AVIATION ADMINISTRATION AIRWORTHINESS DIRECTIVES**

## **LARGE AIRCRAFT BIWEEKLY 2020-14**

*6/22/2020 - 7/5/2020*



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

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## LARGE AIRCRAFT

AD No.	Information	Manufacturer	Applicability
Information Key: E – Emergency; COR – Correction; R – Replaces, A – Affects			
<b>Biweekly 2020-01</b>			
2019-23-04		The Boeing Company	727, 727-100, 727C, 727-100C, 727-200, and 727-200F
2019-23-16		The Boeing Company	737-100, -200, -200C, -300, -400, and -500
2019-24-12		De Havilland Aircraft of Canada Limited	DHC-8-401 and -402
2019-24-13		Airbus SAS	A318-111, -112, -121, and -122, A319-111, -112, -113, -114, -115, -131, -132, and -133, A320-211, -212, -214, -216, -231, -232, and -233, A321-111, -112, -131, -211, -212, -213, -231, and -232
2019-24-14		328 Support Services GmbH	328-100
2019-24-15		The Boeing Company	737-900ER
2019-24-16	R 2017-16-08	Embraer S.A	ERJ 190-100 STD, -100 LR, -100 ECJ, and -100 IGW, ERJ 190-200 STD, -200 LR, and -200 IGW
2019-24-18		The Boeing Company	727, 727C, 727-100, 727-100C, 727-200, and 727-200F, 757-200, -200PF, -200CB, and -300, 767-200, -300, -300F, and -400ER
2019-25-13		Engine Alliance	GP7270 and GP7277
2019-25-17		The Boeing Company	737-600, -700, -700C, -800, -900, and -900ER
<b>Biweekly 2020-02</b>			
2019-22-07		Bombardier, Inc	CL-600-2B19 (Regional Jet Series 100 & 440), CL-600-2C10 (Regional Jet Series 700, 701 & 702), CL-600-2D15 (Regional Jet Series 705), Model CL-600-2D24 (Regional Jet Series 900), Model CL-600-2E25 (Regional Jet Series 1000)
2019-23-14		The Boeing Company	37-100, -200, -200C, -300, -400, and -500
2019-24-01		Airbus SAS	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, -231, -212, -213, and -232, A330-201, -202, -203, -223, -223F, -243, and -243F, A340-211, -212, -213, -311, -312, -313, -541, and -642
2019-25-10		Fokker Services B.V	F28 Mark 0070 and 0100
2019-25-11		Viking Air Limited	CL-215-1A10, CL-215-6B11 (CL-215T Variant)
2019-25-12	R 2016-18-02	The Boeing Company	777-200 and -300ER
2019-25-14		The Boeing Company	777-300ER and 777F
2019-25-15		Fokker Services B.V	F28 Mark 0100
2019-25-16	R 2017-06-08	Embraer S.A	ERJ 170-100 LR, -100 STD, -100 SE, and -100 SU airplanes; and Model ERJ 170-200 LR, -200 SU, -200 STD, and -200 LL
2019-25-18		Bombardier, Inc	CL-600-2B19 (Regional Jet Series 100 & 440)
2019-25-19		Airbus SAS	A350-941
2020-01-11	R 2017-12-07	The Boeing Company	737-800, -900, and -900ER
2020-01-55	E	General Electric Company	GE90-110B1 and GE90-115B
<b>Biweekly 2020-03</b>			
2019-25-20		Lockheed Martin Corporation/Lockheed Martin Aeronautics Company	382, 382B, 382E, 382F, and 382G; C-130A, C-130B, C-130BL, C-130E, C-130H, C-130H-30, C-130J, C-130J-30, EC-130Q, HC-130H, KC-130H, NC-130B, NC-130, and WC-130H airplanes
2019-25-55		The Boeing Company	737-300, -400, and -700 series airplanes
2019-26-01		Airbus SAS	A350-941 and -1041 airplanes
2020-01-12	A 2017-16-12	Airbus SAS	A318, A319, A320, A321 airplanes
2020-01-13	R 2018-19-26	Dassault Aviation	MYSTERE-FALCON 200 airplanes
2020-01-14	A 2010-26-05	Airbus SAS	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, and B4-203 airplanes
2020-01-17		Airbus SAS	A318, A319, A320, A321 airplanes
2020-01-18	R 2006-11-11	The Boeing Company	757-200, -200PF, -200CB, and -300 series airplanes

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<b>Biweekly 2020-04</b>			
2019-26-10		Bombardier, Inc.	CL-600-2C10, -2D15, -2D25, -2E25 airplanes
2019-26-11		Airbus SAS	A319, A320, A321 airplanes
2020-01-10		Airbus SAS	A350-941 airplanes
2020-01-15		Airbus SAS	A300, A310 airplanes
2020-01-16	A 2014-25-52	Airbus SAS	A330, A340 airplanes
2020-01-55		General Electric Company	GE90-110B1 and GE90-115B model turbofan engines
2020-02-10		De Havilland Aircraft of Canada Limited	DHC-8-400, -401, and -402 airplanes
2020-02-12	R 2017-15-04	The Boeing Company	787 series airplanes
2020-02-13	R 2019-03-14 A 2010-26-05	Dassault Aviation	FAN JET FALCON, FAN JET FALCON SERIES C, D, E, F, and G airplanes
2020-02-14		Airbus SAS	A350-941 and -1041 airplanes
2020-02-15		Bombardier, Inc.	BD-700-1A10, BD-700-1A11 airplanes
2020-02-16		The Boeing Company	737-200, -200C, -300, -400, and -500 series airplanes
2020-02-18		Gulfstream Aerospace Corporation	GVI, GVII-G500, and GVII-G600 airplanes
2020-02-19	R 2003-09-04 R1	Bombardier, Inc.	CL-600-2B19 airplanes
2020-02-20	R 2014-24-07	Airbus SAS	A318, A319, A320, A321 airplanes
2020-02-21	R 2014-03-12 R 2018-19-25 A 2010-26-05	Dassault Aviation	FALCON 2000 airplanes
2020-02-22		Airbus SAS	A300, A310 airplanes
2020-03-11		The Boeing Company	707-100 long body, -200, -100B long body, -100B short body, -300, -300B, -300C, and -400 series; and 720 and 720B series airplanes
2020-03-12		Airbus SAS	A350-941 and -1041 airplanes
<b>Biweekly 2020-05</b>			
2020-01-18	COR R 2006-11-11	The Boeing Company	757-200, -200PF, -200CB, and -300 series airplanes
2020-02-19	COR R 2003-09-04 R1	Bombardier, Inc.	CL-600-2B19 (Regional Jet series 100 & 440) airplanes
2020-03-10		The Boeing Company	737 series, except for 737-100, -200, -200C, -300, -400, and -500 series airplanes
2020-03-14		Airbus SAS	A350-941 and -1041 airplanes
2020-03-15		Airbus SAS	A321-211, -212, -213, -231, and -232 airplanes
2020-03-17	R 2015-24-04	Bombardier, Inc.	CL-600-2B19, -2C10, -2D15, -2D25, -2E25 airplanes
2020-03-18	R 2017-19-08	Airbus Defense and Space S.A.	C-212-CB, C-212-CC, C-212-CD, C-212-CE, and C-212-DF airplanes
2020-03-19	A 2010-26-05	Dassault Aviation	MYSTERE-FALCON 20-C5, 20-D5, 20-E5, and 20-F5 airplanes
2020-03-20		The Boeing Company	MD-11, MD-11F, 717-200, 737-8, 737-9, 737-600, -700, -700C, -800, -900, and -900ER; 747-400 and 747-400F; 757-200, -200PF, -200CB, and -300; 767-200, -300, -300F, -400ER, and -2C; 777-200, -200LR, -300, and -300ER; 777F series airplanes
2020-03-21		Bombardier, Inc.	BD-700-1A10 and BD-700-1A11 airplanes
2020-03-22		The Boeing Company	787-8 airplanes
2020-03-23		Bombardier, Inc.	CL-600-2B19
2020-03-24	A 2010-26-05	Dassault Aviation	MYSTERE-FALCON 20-C5, 20-D5, 20-E5, and 20-F5 airplanes
2020-04-01		Pratt & Whitney	PW1519G, PW1521G, PW1521GA, PW1524G, PW1525G, PW1521G-3, PW1524G-3, PW1525G-3, PW1919G, PW1921G, PW1922G, PW1923G, and PW1923G-A model turbofan engines
<b>Biweekly 2020-06</b>			
2020-04-10	A 2011-03-10	Airbus SAS	A330 airplanes
2020-04-11		The Boeing Company	747-400 series airplanes
2020-04-12	R 2012-22-05 R 2018-19-03	Fokker Services B.V.	F28 Mark 0070 and 0100 airplanes
2020-04-18		Airbus SAS	A330-941 airplanes

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2020-05-01		Rolls-Royce Deutschland Ltd & Co KG	Trent 1000-AE3, Trent 1000-CE3, Trent 1000-D3, Trent 1000-G3, Trent 1000-H3, Trent 1000-J3, Trent 1000-K3, Trent 1000-L3, Trent 1000-M3, Trent 1000-N3, Trent 1000-P3, Trent 1000-Q3, and Trent 1000-R3 model turbofan engines
2020-05-10		Dassault Aviation	FALCON 7X airplanes
2020-05-12		Gulfstream Aerospace Corporation	GVII-G500 and GVII-G600 airplanes
2020-05-13		Airbus Canada Limited Partnership	BD-500-1A11 airplanes
2020-05-14		Airbus SAS	A320-214, -232, -271N; A321-231 airplanes
2020-05-18		Airbus SAS	A350-941 and -1041 airplanes
2020-06-01	R 2018-25-09 R 2019-12-01	CFM International, S.A.	LEAP-1B21, -1B23, -1B25, -1B27, -1B28, -1B28B1, -1B28B2, -1B28B3, -1B28B2C, -1B28BBJ1, and -1B28BBJ2 model turbofan engines
<b>Biweekly 2020-07</b>			
2020-04-19	R 2017-15-01	The Boeing Company	777-200, -200LR, -300, -300ER, and 777F series airplanes
2020-05-13		Airbus Canada Limited Partnership	BD-500-1A11 airplanes
2020-05-14		Airbus SAS	A320-214, -232, -271N; A321-231 airplanes
2020-05-15		Airbus SAS	A319-131, -132, -133; A320-231, -232, -233; and A321-131, -231, -232 airplanes
2020-05-16		Airbus SAS	A319-115; A320-214, -216, -232, -251N, -271N; and A321-211, -231, -251N, -251NX, -253N, -271N, -271NX, -272N airplanes
2020-05-17		Airbus SAS	A318-112, A319-111, A319-112, A319-113, A319-114, A319-115, A319-131, A319-132, A319-133, A320-211, A320-212, A320-214, A320-216, A320-231, A320-232, A320-233, A320-251N, and A320-271N airplanes
2020-05-18		Airbus SAS	A350-941 and -1041 airplanes
2020-05-19		Airbus SAS	A319-112, -115, -132; and A320-214, -216, -232 -233 airplanes
2020-05-21		Yaborã Indústria Aeronáutica S.A.	ERJ 190-100 STD, -100 LR, -100 ECJ, -100 IGW, -200 STD, -200 LR, and -200 IGW airplanes
2020-05-22		Yaborã Indústria Aeronáutica S.A.	ERJ 170-100 LR, -100 STD, -100 SE, -100 SU; and ERJ 170-200 LR, -200 SU, -200 STD, -200 LL airplanes
2020-05-24	R 2010-26-01	The Boeing Company	777-200 series airplanes
2020-05-28	R 2019-11-08	International Aero Engines LLC	PW1133G-JM, PW1133GA-JM, PW1130G-JM, PW1129G-JM, PW1127G-JM, PW1127GA-JM, PW1127G1-JM, PW1124G-JM, PW1124G1-JM, and PW1122G-JM turbofan engines
2020-06-02		International Aero Engines LLC	PW1122G-JM, PW1124G1-JM, PW1124G-JM, PW1127GA-JM, PW1127G1-JM, PW1127G-JM, PW1133G-JM, PW1133GA-JM, PW1130G-JM, and PW1129G-JM turbofan engines
2020-06-14		The Boeing Company	787-8, 787-9, and 787-10 airplanes
2020-07-51	E	International Aero Engines AG	V2522-A5, V2524-A5, V2525-D5, V2527-A5, V2527E-A5, V2527M-A5, V2528-D5, V2530-A5, and V2533-A5 turbofan engines
<b>Biweekly 2020-08</b>			
2020-04-15		The Boeing Company	757-200, -200PF, -200CB, and -300 series; 767-200, -300, and -300F series airplanes
2020-04-16		Yaborã Indústria Aeronáutica S.A.	ERJ 190-100 STD, -100 LR, -100 IGW, -200 STD, -200 LR, and -200 IGW airplanes
2020-04-17		Airbus SAS Model	A350-941 and -1041 airplanes
2020-04-20		De Havilland Aircraft of Canada Limited	DHC-8-400, -401, and -402 airplanes
2020-04-22	R 2018-19-27 R 2014-16-12 A 2010-26-05	Dassault Aviation	FALCON 2000EX airplanes
2020-05-25		The Boeing Company	757-200, -200PF, -200CB, and -300 series airplanes
2020-05-26		The Boeing Company	787-8 airplanes

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2020-05-27 2020-06-10		Bombardier, Inc. Airbus SAS	BD-700-1A10 and BD-700-1A11 airplanes A318-111, -112, -121, and -122; A319-111, -112, -113, -114, -115, -131, -132, and -133; A320-211, -212, -214, -216, -231, -232, and -233; A321-111, -112, -131, -211, -212, -213, -231, and -232 airplanes
2020-06-15 2020-06-16	R 2017-03-02	Fokker Services B.V. Rolls-Royce Deutschland Ltd. & Co. KG	F28 Mark 0100 airplanes RB211 Trent 768-60, 772-60, and 772B-60 turbofan engines
2020-06-17	R 2011-09-06	Airbus SAS	A330-223F and -243F; A330-201, -202, -203, -223, and -243; A330-301, -302, -303, -321, -322, -323, -341, -342, and -343; A330-941; A340-211, -212, and -213; A340-311, -312, and -313; A340-541 and -642 airplanes
2020-06-18		Airbus SAS	A318-111, -112, -121, and -122; A319-111, -112, -113, -114, -115, -131, -132, -133, -151N, -153N, and -171N; A320-211, -212, -214, -216, -231, -232, -233, -251N, -252N, -253N, -271N, -272N, and -273N; A321-111, -112, -131, -211, -212, -213, -231, -232, -251N, -251NX, -252N, -252NX, -253N, -253NX, -271N, -271NX, -272N, and -272NX airplanes
2020-07-02		Pratt & Whitney	PW1519G, PW1521G, PW1521G-3, PW1521GA, PW1524G, PW1524G-3, PW1525G, and PW1525G-3 turbofan engines
2020-07-10 2020-08-01		Airbus SAS General Electric Company	A320-271N; A321-271N, -271NX, and -272N airplanes CF34-1A, CF34-3A, CF34-3A1, CF34-3A2, CF34-3B, and CF34-3B1 turbofan engines
<b>Biweekly 2020-09</b>			
2020-07-11		ATR–GIE Avions de Transport Regional	ATR42-200, -300, -320, and -500; ATR72-101, -102, -201, -202, -211, -212, and -212A
2020-07-12		ATR–GIE Avions de Transport Regional	ATR42-500
2020-07-13 2020-07-14		Bombardier, Inc The Boeing Company	BD-100-1A10 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
2020-07-16	R 2016-16-09 R 2019-03-20 A 2014-16-23	Dassault Aviation	FALCON 7X
2020-07-17 2020-07-18	R 2017-05-12	Saab AB, Support and Services Airbus SAS	SAAB 2000 A318-112; A319-111, -112, -115, -132, and -133; A320-214, -216, -232, and -233; A321-211, -212, -213, -231, and -232
2020-07-19		ATR–GIE Avions de Transport Regional	ATR72-101, -102, -201, -202, -211, -212, and -212A
2020-07-20	R 2004-06-01 R 2009-06-09 A 2008-17-01 R1 A 2012-01-08	Support Services GmbH	328-100
2020-07-21		Yabora Industria Aeronautica S.A.	ERJ 170-100 LR, -100 STD, -100 SE, and -100 SU; ERJ 170-200 LR, -200 SU, -200 STD, and -200 LL; ERJ 190-100 STD, -100 LR, -100 ECJ, -100 IGW, -200 STD, -200 LR, and -200 IGW
2020-07-51		International Aero Engines AG	V2522-A5, V2524-A5, V2525-D5, V2527-A5, V2527E-A5, V2527M-A5, V2528-D5, V2530-A5, and V2533-A5
2020-08-02		Thales AVS France SAS	Global Positioning System/Satellite Based Augmentation System receivers
2020-08-03	R 2008-22-24	Rolls-Royce Deutschland Ltd & Co KG	RB211-535E4-37, RB211-535E4-B-37, RB211-535E4-C-37, and RB-211-535E4-B-75
2020-08-04		International Aero Engines LLC	PW1133G-JM, PW1133GA-JM, PW1130G-JM, PW1129G-JM, PW1127G-JM, PW1127GA-JM, PW1127G1-JM, PW1124G-JM, PW1124G1-JM, and PW1122G-JM
2020-09-03		International Aero Engines AG	V2500-A1, V2522-A5, V2524-A5, V2525-D5, V2527-A5, V2527E-A5, V2527M-A5, V2528-D5, V2530-A5, V2531-E5, and V2533-A5

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<b>Biweekly 2020-10</b>			
2020-08-11		Yabora Industria Aeronautica S.A.	ERJ 190-300 and ERJ 190-400
2020-08-12		The Boeing Company	747-8 and 747-8F series
2020-08-13		Bombardier, Inc.	CL-600-2B19 (Regional Jet Series 100 & 440); CL-600-2C10 (Regional Jet Series 700, 701 & 702); CL-600-2D15 (Regional Jet Series 705), and CL-600-2D24 (Regional Jet Series 900)
<b>Biweekly 2020-11</b>			
2020-06-19		The Boeing Company	727, 727C, 727-100, 727-100C, 727-200, and 727-200F series
2020-09-10	R 2018-25-04	Airbus Canada Limited Partnership	BD-500-1A10; BD-500-1A11
2020-09-11	R 2017-06-06 R 2019-12-10 A 2012-12-07	Fokker Services B.V.	F28 Mark 0070 and 0100
2020-09-12		De Havilland Aircraft of Canada Limited	DHC-8-400, -401, and -402 series
2020-09-13	A 2009-01-06 R1 A 2012-01-08	328 Support Services GmbH	328-300
2020-09-14	R 2020-03-12	Airbus SAS	A350-941 and -1041
2020-09-16	R 2000-17-09 R 2008-04-19 R1 R 2015-26-09 A 2018-18-05	ATR-GIE Avions de Transport Regional	ATR42-200, -300, and -320
2020-10-04		General Electric Company	GE90-110B1 and GE90-115B
2020-10-05		Rockwell Collins, Inc.	Flight Management Systems
2020-10-10	R 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)
2020-11-04		Learjet Inc.	60
<b>Biweekly 2020-12</b>			
2020-11-11		The Boeing Company	777-200, -200LR, -300, -300ER, and 777F series
2020-12-03		Rolls-Royce Deutschland Ltd & Co KG	Trent XWB-97
<b>Biweekly 2020-13</b>			
2020-11-10		Bombardier, Inc.	BD-100-1A10
2020-11-13	R 2010-23-04	De Havilland Aircraft of Canada Limited	DHC-8-400, -401, and -402
2020-11-14		Bombardier, Inc.	BD-100-1A10
2020-12-01		Rolls-Royce Deutschland Ltd & Co KG	Trent XWB-75, XWB-79, XWB-79B, and XWB-84
2020-12-06		Gulfstream Aerospace Corporation	G-IV
2020-13-04	R 2017-09-06	General Electric Company	GENx-1B and GENx-2B
<b>Biweekly 2020-14</b>			
2020-11-01		Gulfstream Aerospace Corporation	GVI
2020-11-12		The Boeing Company	737-8 and 737-9
2020-13-06		Pratt & Whitney Canada Corp.	PW150A
2020-13-07		Rolls-Royce Deutschland Ltd & Co KG	Trent 1000-D2, Trent 1000-J2, and Trent 1000-K2
2020-14-02		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



**2020-11-01 Gulfstream Aerospace Corporation:** Amendment 39-21126; Docket No. FAA-2019-1024; Product Identifier 2019-CE-002-AD.

**(a) Effective Date**

This AD is effective July 27, 2020.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to Gulfstream Aerospace Corporation Model GVI airplanes, certificated in any category, serial numbers 6001 through 6111, 6113 through 6133, and 6135 through 6274.

Note 1 to paragraph (c) of this AD: Model GVI airplanes are also referred to by the marketing designations G650 and G650ER.

**(d) Subject**

Joint Aircraft System Component (JASC)/Air Transport Association (ATA) of America Code 27, Flight Controls.

**(e) Unsafe Condition**

This AD was prompted by a report that the primary flight control actuation system (PFCAS) linear variable displacement transducer (LVDT) mechanical disconnect monitor may not trigger the disconnect of the affected control surfaces as required in the event of a control surface failure. This condition, if not addressed, could lead to spoiler hard-over or loss of structural integrity due to excessive surface deflection and result in loss of control of the airplane.

**(f) Compliance**

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

**(g) Software Upgrade**

Within the next 24 months after July 27, 2020 (the effective date of this AD), update the software for each PFCAS remote electronics unit (REU) from Label 34 to Label 35 by following the Accomplishment Instructions in Gulfstream G650 Customer Bulletin Number 201, dated September 28, 2017, or Gulfstream G650ER Customer Bulletin Number 201, dated September 28, 2017; the Modification Instructions, sections A through C, in Gulfstream G650 Aircraft Service Change No. 069, dated September 28, 2017, or Gulfstream G650ER Aircraft Service Change No. 069, dated

September 28, 2017; and the Accomplishment Instructions in Parker Service Bulletin 469000-27-003, Revision 1, dated October 11, 2017; except you are not required to submit information to the manufacturer.

#### **(h) Alternative Methods of Compliance (AMOCs)**

(1) The Manager, Atlanta ACO Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the certification office, send it to the attention of the person identified in paragraph (i)(1) of this AD.

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

(3) For service information that contains steps that are labeled as Required for Compliance (RC), the provisions of paragraphs (h)(3)(i) and (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. 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.

#### **(i) Related Information**

For more information about this AD, contact Myles Jalalian, Aerospace Engineer, Atlanta ACO Branch, FAA, 1701 Columbia Avenue, College Park, Georgia 30337; phone: (404) 474-5572; fax: (404) 474-5606; email: myles.jalalian@faa.gov.

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

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

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

(i) Gulfstream G650 Customer Bulletin Number 201, dated September 28, 2017. (ii) Gulfstream G650ER Customer Bulletin Number 201, dated September 28, 2017.

(iii) Gulfstream G650 Aircraft Service Change 069, dated September 28, 2017.

(iv) Gulfstream G650ER Aircraft Service Change 069, dated September 28, 2017.

(v) Parker Service Bulletin 469000-27-003, Revision 1, dated October 11, 2017

(3) For Gulfstream and Parker service information identified in this AD, Gulfstream Aerospace Corporation, Technical Publications Dept., P.O. Box 2206, Savannah, GA 31402-2206; telephone: (800) 810-4853; fax: (912) 965-3520; email: pubs@gulfstream.com; internet: <https://www.gulfstream.com/customer-support>.

(4) You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329-4148. In addition, you can access this service information on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2019-1024.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at

NARA, email [fedreg.legal@nara.gov](mailto:fedreg.legal@nara.gov), or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on May 15, 2020.

Lance T. Gant,

Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2020-12799 Filed 6-19-20; 8:45 am]



**2020-11-12 The Boeing Company:** Amendment 39-19916; Docket No. FAA-2020-0091; Product Identifier 2020-NM-012-AD.

**(a) Effective Date**

This AD is effective July 30, 2020.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to The Boeing Company Model 737-8 and 737-9 airplanes, certificated in any category, as identified in Boeing Special Attention Service Bulletin 737-54-1056, dated December 11, 2019.

**(d) Subject**

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

**(e) Unsafe Condition**

This AD was prompted by a report that certain exterior fairing panels on the top of the engine nacelle and strut (the thumbnail fairing and mid strut fairing panels) may not have the quality of electrical bonding necessary to ensure adequate shielding of the underlying wiring from the electromagnetic effects of high intensity radiated fields (HIRF), which could potentially lead to a dual-engine power loss event and/or display of hazardously misleading primary propulsion parameters. The FAA is issuing this AD to address this condition, which could result in a forced off-airport landing or excessive flightcrew workload.

**(f) Compliance**

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

**(g) Detailed Inspection and Modification**

Before further flight, do a detailed inspection of the thumbnail fairing panels and mid strut fairing panels for excessive rework of the metallic (aluminum foil) inner surface layer, and, before further flight, do the modification as applicable in accordance with Steps 4., 6. through 8. inclusive, and 11. of the Accomplishment Instructions of Boeing Special Attention Service Bulletin 737-54-1056, dated December 11, 2019.

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

(1) Where Boeing Special Attention Service Bulletin 737-54-1056, dated December 11, 2019, specifies thumbnail fairings having part number “311A6111-5 or 311A6111-7 or 311A6111-9,” for this AD use part number “313A6110-5 or 313A6110-7 or 313A6110-9.”

(2) Where note (d) to Figure 4 of Boeing Special Attention Service Bulletin 737-54-1056, dated December 11, 2019, specifies to drill a hole with a diameter of “0.192-0.196,” for this AD the hole diameter must be “0.097-0.101.”

(3) For inspections of critical bonding areas, as specified in Step 4.a. of the Accomplishment Instructions of Boeing Special Attention Service Bulletin 737-54-1056, dated December 11, 2019, any panel with cumulative foil cut lengths greater than 4.0 inches within any 12.0 inches in length must be replaced; any panel with a foil cut gap greater than 0.25 inch also must be replaced.

(4) For inspections of non-critical bonding areas, as specified in Step 4.b. of the Accomplishment Instructions of Boeing Special Attention Service Bulletin 737-54-1056, dated December 11, 2019, any panel with cumulative foil cut lengths greater than 12.0 inches within a 12.0-inch by 12.0-inch area must be replaced; any panel with a foil cut gap greater than 0.25 inch also must be replaced.

**(i) Special Flight Permit**

Special flight permits, as described in 14 CFR 21.197 and 21.199, may be issued to operate the airplane to a location where the requirements of this AD can be accomplished, but concurrence by the Manager, Seattle ACO Branch, FAA, is required before issuance of the special flight permit. Requests for a special flight permit must be submitted to the FAA with a description of the electromagnetic field radiation sources (type, location, frequency, and power level) along the planned route. Only electromagnetic field radiation sources operating in the frequency spectrum between 1 MHz and 100 MHz need to be identified when submitting a special flight permit request (common examples of such sources include, but are not limited to, short wave radio towers, FM radio towers, and some TV broadcast transmitters). Send requests for a special flight permit to the person identified in paragraph (k) of this AD.

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

(1) The Manager, Seattle ACO Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the certification office, send it to the attention of the person identified in paragraph (k) 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 Company Organization Designation Authorization (ODA) that has been authorized by the Manager, Seattle ACO Branch, FAA, to make those findings. To be approved, the repair method, modification deviation, or alteration deviation must meet the certification basis of the airplane, and the approval must specifically refer to this AD.

**(k) Related Information**

For more information about this AD, contact Christopher Baker, Aerospace Engineer, Propulsion Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206-231-3552; email: christopher.r.baker@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.

(i) Boeing Special Attention Service Bulletin 737-54-1056, dated December 11, 2019.

(ii) [Reserved]

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

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

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, email [fedreg.legal@nara.gov](mailto:fedreg.legal@nara.gov), or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on June 11, 2020.

Lance T. Gant,

Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2020-13481 Filed 6-24-20; 8:45 am]



**2020-13-06 Pratt & Whitney Canada Corp.:** Amendment 39-21151; Docket No. FAA-2019-0395; Project Identifier 2019-NE-11-AD.

**(a) Effective Date**

This AD is effective August 6, 2020.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to Pratt & Whitney Canada Corp. (P&WC) PW150A model turboprop engines with a high-pressure (HP) centrifugal impeller, part number (P/N) 3049127-01, installed.

**(d) Subject**

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

**(e) Unsafe Condition**

This AD was prompted by a determination by the manufacturer that certain HP centrifugal impellers installed on P&WC PW150A model turboprop engines may exhibit a material microstructure anomaly that has a potential to adversely affect the low cycle fatigue characteristics of the part. The FAA is issuing this AD to prevent failure of a certain HP centrifugal impeller. The unsafe condition, if not addressed, could result in uncontained release of the HP centrifugal impeller, damage to the engine, and damage to the airplane.

**(f) Compliance**

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

**(g) Required Actions**

Remove HP centrifugal impeller, P/N 3049127-01, with any serial number (S/N) listed in Table 2 of P&WC Service Bulletin (SB) No. PW150-72-35331, Revision No. 1, dated May 3, 2016, prior to accumulating 8,000 flight cycles since new or within 150 flight cycles after the effective date of this AD, whichever occurs later, and replace with a part eligible for installation.

**(h) Installation Prohibition**

After the effective date of this AD, do not install an HP centrifugal impeller, P/N 3049127-01, with any S/N listed in Table 1 or 2 of P&WC SB No. PW150-72-35331, Revision No. 1, dated May 3, 2016, onto any engine.

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

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

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

**(j) Related Information**

(1) For more information about this AD, contact Barbara Caufield, Aerospace Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: 781-238-7146; fax: 781-238-7199; email: barbara.caufield@faa.gov.

(2) Refer to Transport Canada Civil Aviation (TCCA) AD CF-2018-12, dated April 27, 2018, for more information. You may examine the TCCA AD in the AD docket on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2019-0395.

**(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) Pratt & Whitney Canada Corp. (P&WC) Service Bulletin PW150-72-35331, Revision No. 1, dated May 3, 2016.

(ii) [Reserved]

(3) For P&WC service information identified in this AD, contact Pratt & Whitney Canada Corp., 1000 Marie-Victorin, Longueuil, Quebec, Canada, J4G 1A1; phone: 800-268-8000; fax: 450-647-2888; internet: <https://www.pwc.ca>.

(4) You may view this service information at FAA, Airworthiness Products Section, Operational Safety Branch, 1200 District Avenue, Burlington, MA 01803. For information on the availability of this material at the FAA, call 781-238-7759.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, email: [fedreg.legal@nara.gov](mailto:fedreg.legal@nara.gov), or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on June 17, 2020.

Lance T. Gant,

Director, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2020-14259 Filed 7-1-20; 8:45 am]



**FAA**  
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## **AIRWORTHINESS DIRECTIVE**

[www.faa.gov/aircraft/safety/alerts/](http://www.faa.gov/aircraft/safety/alerts/)  
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**2020-13-07 Rolls-Royce Deutschland Ltd & Co KG (Type Certificate previously held by Rolls-Royce plc):** Amendment 39-21152; Docket No. FAA-2020-0612; Project Identifier MCAI-2020-00674-E.

**(a) Effective Date**

This AD is effective July 13, 2020.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to all Rolls-Royce Deutschland Ltd. & Co KG (Type Certificate previously held by Rolls-Royce plc) Trent 1000-D2, Trent 1000-J2, and Trent 1000-K2 model turbofan engines with fuel pump, part number (P/N) G5030FPU01, installed.

**(d) Subject**

Joint Aircraft System Component (JASC) Code 7314, Engine Fuel Pump.

**(e) Unsafe Condition**

This AD was prompted by the manufacturer's investigation into an unexpected reduction in fuel pump performance in certain high life fuel pumps. Further troubleshooting of the fuel pump discovered life-related wear-out of the internal components, which causes deterioration in fuel pump efficiency. The FAA is issuing this AD to reduce the risk of reduced thrust during engine operation. The unsafe condition, if not addressed, could result in failure of the fuel pump, loss of thrust control, and loss of the airplane.

**(f) Compliance**

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

**(g) Required Actions**

Remove fuel pump, P/N G5030FPU01, and replace it with a part eligible for installation within the compliance times specified in paragraph (g)(1) or (2) of this AD, whichever occurs later:

- (1) Before exceeding 16,000 hours in service or 4,900 engines cycles in service since new, or since last overhaul; or
- (2) Within 30 days after the effective date of this AD.

**(h) Definition**

For the purpose of this AD, a “part eligible for installation” is a fuel pump that has not exceeded the compliance times specified in paragraph (g)(1) of this AD.

Note 1 to paragraph (h): Additional information on a sub-population of parts that are eligible for installation can be found in Appendix 1 of Rolls-Royce plc Alert Non-Modification Service Bulletin Trent 1000 73-AK581, dated May 12, 2020.

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

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

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

**(j) Related Information**

(1) For more information about this AD, contact Stephen Elwin, Aerospace Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: 781-238-7236; fax: 781-238-7199; email: stephen.l.elwin@faa.gov.

(2) Refer to European Union Aviation Safety Agency (EASA) AD 2020-0124, dated May 29, 2020, for more information. You may examine the EASA AD in the AD docket on the internet at <https://www.regulations.gov> by searching for and locating it in Docket No. FAA-2020-0612.

**(k) Material Incorporated by Reference**

None.

Issued on June 17, 2020.

Lance T. Gant,  
Director, Compliance & Airworthiness Division, Aircraft Certification Service.  
[FR Doc. 2020-13448 Filed 6-25-20; 8:45 am]



**2020-14-02 The Boeing Company:** Amendment 39-21156; Docket No. FAA-2019-0990; Product Identifier 2019-NM-122-AD.

**(a) Effective Date**

This AD is effective July 28, 2020.

**(b) Affected ADs**

None.

**(c) Applicability**

This AD applies to all The Boeing Company Model 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, certificated in any category.

**(d) Subject**

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

**(e) Unsafe Condition**

This AD was prompted by reports of cracking in particular areas of the bulkhead structure at body station (BS) 2598. The FAA is issuing this AD to address fatigue cracking of the BS 2598 bulkhead structure, which could adversely affect the structural integrity of the bulkhead and the horizontal stabilizer support structure, and result in loss of controllability of the airplane.

**(f) Compliance**

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

**(g) Required Actions**

Except as specified by paragraph (h) of this AD: At the applicable times specified in the “Compliance” paragraph of Boeing Alert Requirements Bulletin 747-53A2899 RB, Revision 1, dated April 7, 2020, do all applicable actions identified in, and in accordance with, the Accomplishment Instructions of Boeing Alert Requirements Bulletin 747-53A2899 RB, Revision 1, dated April 7, 2020.

Note 1 to paragraph (g): Guidance for accomplishing the actions required by this AD can be found in Boeing Alert Service Bulletin 747-53A2899, Revision 1, dated April 7, 2020, which is referred to in Boeing Alert Requirements Bulletin 747-53A2899 RB, Revision 1, dated April 7, 2020.

### **(h) Exceptions to Service Information Specifications**

(1) For purposes of determining compliance with the requirements of this AD: Where Boeing Alert Requirements Bulletin 747-53A2899 RB, Revision 1, dated April 7, 2020, uses the phrase “the original issue date of Requirements Bulletin 747-53A2899 RB,” this AD requires using “the effective date of this AD.”

(2) Where Boeing Alert Requirements Bulletin 747-53A2899 RB, Revision 1, dated April 7, 2020, specifies contacting Boeing for repair instructions: This AD requires doing the 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 Alert Requirements Bulletin 747-53A2899 RB, dated April 5, 2019.

### **(j) Alternative Methods of Compliance (AMOCs)**

(1) The Manager, Seattle ACO Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the certification office, send it to the attention of the person identified in paragraph (k)(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 Company Organization Designation Authorization (ODA) that has been authorized by the Manager, Seattle ACO Branch, FAA, to make those findings. To be approved, the repair method, modification deviation, or alteration deviation must meet the certification basis of the airplane, and the approval must specifically refer to this AD.

### **(k) Related Information**

(1) For more information about this AD, contact Eric Lin, Aerospace Engineer, Airframe Section, FAA, Seattle ACO Branch, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206-231-3523; email: eric.lin@faa.gov.

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

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

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

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

(3) The following service information was approved for IBR on July 28, 2020 (85 FR 37547, June 23, 2020).

(i) Boeing Alert Requirements Bulletin 747-53A2899 RB, Revision 1, dated April 7, 2020.

(ii) [Reserved]

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

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

(6) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, email [fedreg.legal@nara.gov](mailto:fedreg.legal@nara.gov), or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on June 24, 2020.

Gaetano A. Sciortino,

Deputy Director for Strategic Initiatives, Compliance & Airworthiness Division, Aircraft Certification Service.

[FR Doc. 2020-13982 Filed 6-30-20; 8:45 am]