

**FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES**

**LARGE AIRCRAFT
BIWEEKLY 2017-06**

3/6/2017 - 3/19/2017



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

CHANGE OF ADDRESS NOTICE

Any change of address regarding the biweekly service must include the mailing label from a recent issue or your name and address printed exactly as they appear on the mailing label (including the computer number above the address).

Please allow one month for an address change.

MAIL YOUR ADDRESS CHANGE TO:

Superintendent of Documents
Government Printing Office
Mail List Branch SSOM
Washington, DC 20402

Telephone: (202) 512-1806
Facsimile: (202) 512-2250

LARGE AIRCRAFT

AD No.	Information	Manufacturer	Applicability
--------	-------------	--------------	---------------

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

Biweekly 2017-01

2016-25-01		The Boeing Company	747-400, 747-400D, and 747-400F series; 757-200, -200PF, -200CB, and -300 series; 767-200, -300, -300F, and -400ER series; 767-300 and -300F series; and 767-300 and -300F series
2016-25-07	R 2012-11-15	The Boeing Company	767-200 and -300 series
2016-25-25		BAE (Operations) Limited	4101
2016-25-26		The Boeing Company	MD-90-30
2016-25-27		Airbus	A300 B4-603, B4-620, B4-622, B4-605R, B4-622R, F4-605R, F4-622R, and C4-605R variant F
2016-25-29		The Boeing Company	767-200 and -300 series
2016-25-30		Airbus	A330-223F and -243F; A330-201, -202, -203, -223, and -243; A330-301, -302, -303, -321, -322, -323, -341, -342, and -343; A340-211, -212, and -213; A340-311, -312, and -313; A340-541; A340-642
2016-25-31		Airbus	A330-201, -202, -203, -223, -223F, -243, -243F, -301, -302, -303, -321, -322, -323, -341, -342, and -343; A340-211, -212, -213, -311, -312, and -313; A340-541; and A340-642
2016-26-02		Bombardier, Inc.	CL-600-2C10 (Regional Jet Series 700, 701, & 702); CL-600-2D15 (Regional Jet Series 705); and CL-600-2D24 (Regional Jet Series 900); CL-600-2E25 (Regional Jet Series 1000)
2016-26-03	R 2013-23-02	Airbus Defense and Space S.A.	CN-235, CN-235-100, CN-235-200, CN-235-300, and C-295
2016-26-05	R 2014-26-08	Airbus	A330-201, -202, -203, -223, -223F -243, -243F, -301, -302, -303, -321, -322, -323, -341, -342, and -343
2017-01-07		Dassault Aviation	FAN JET FALCON; FAN JET FALCON SERIES C, D, E, F, and G; MYSTERE-FALCON 200; MYSTERE-FALCON
2017-01-08		Airbus	20-C5, 20-D5, 20-E5, and 20-F5; MYSTERE-FALCON 50
2016-25-02		The Boeing Company	A330-201, -202, -203, -223, -223F, -243, -243F, -301, -302, -303, -321, -322, -323, -341, -342 and -343 airplanes; and Model A340-211, -212, -213, -311, -312, -313, -541, and -642
			787-8 series

Biweekly 2017-02

2016-26-06		The Boeing Company	787-8 airplanes
2016-26-07		The Boeing Company	747-100, 747-100B, 747-100B SUD, 747-200B, 747-200C, 747-200F, 747-300, 747-400, 747-400D, 747-400F, 747SR, and 747SP series airplanes
2017-01-01	R 2014-05-25	Rolls-Royce plc	RB211-Trent 970-84, RB211-Trent 970B-84, RB211-Trent 972-84, RB211-Trent 972B-84, RB211-Trent 977-84, RB211-Trent 977B-84, and RB211-Trent 980-84 turbofan engines
2017-01-02		The Boeing Company	787-8 and 787-9 airplanes
2017-01-04		Fokker Services B.V.	F28 Mark 0100 airplanes
2017-01-05		Airbus Defense and Space S.A.	CN-235, CN-235-100, CN-235-200, and CN-235-300 airplanes
2017-01-06		Airbus	A319-115, A319-132, A320-214, A320-232, A321-211, A321-213, and A321-231 airplanes
2017-01-09		The Boeing Company	767-300 and 767-300F series airplanes
2017-01-10		Airbus Defense and Space S.A.	C-212-CB, C-212-CC, C-212-CD, C-212-CE, C-212-CF, C-212-DF, and C-212-DE airplanes
2017-01-11		Airbus	A318, A319, A320, A321 airplanes

Biweekly 2017-03

No ADs

Biweekly 2017-04

2017-01-03	R 2007-11-13	The Boeing Company	717-200 airplanes
2017-01-09	COR	The Boeing Company	767-300 and 767-300F series airplanes
2017-01-11		Airbus	A318, A319, A320, A321 airplanes
2017-02-02	2005-13-30	The Boeing Company	737-100, -200, and -200C series airplanes
2017-02-03		The Boeing Company	767-200, -300, and -400ER series airplanes

LARGE AIRCRAFT

AD No.	Information	Manufacturer	Applicability
Information Key: E - Emergency; COR - Correction; S – Supersedes, R - Replaces			
2017-02-04		The Boeing Company	747-200B, 747-300, 747-400, 747-400D, and 747-400F series airplanes
2017-02-05		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2017-02-08		Airbus	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, and B4-203 airplanes; A300 B4-601, B4-603, B4-620, B4-622, B4-605R, B4-622R, F4-605R, F4-622R, and C4-605R Variant F airplanes
2017-02-09		The Boeing Company	747-400, -400D, and -400F series airplanes
2017-02-10	R 2013-19-04	The Boeing Company	737-600, -700, -700C, -800, and -900 series airplanes
2017-03-02	S 2014-16-10	Rolls-Royce plc	RB211 Trent 768-60, 772-60, and 772B-60 turbofan engines
Biweekly 2017-05			
2017-02-01		Rolls-Royce plc	Trent 1000-A, Trent 1000-C, Trent 1000-D, Trent 1000-E, Trent 1000-G, and Trent 1000-H turbofan engines
2017-02-12		The Boeing Company	737-300, -400, and -500 series airplanes
2017-03-03	S 2013-05-18	Rolls-Royce plc	RB211 Trent 553-61, RB211 Trent 553A2-61, RB211 Trent 556-61, RB211 Trent 556A2-61, RB211 Trent 556B-61, RB211 Trent 556B2-61, RB211 Trent 560-61, and RB211 Trent 560A2-61 turbofan engines
2017-03-04	R 2012-16-07	The Boeing Company	737-500 series airplanes
2017-04-01		Gulfstream Aerospace Corporation	GVI airplanes
2017-04-02	R 2014-23-06	Bombardier, Inc.	CL-600-2B19 (Regional Jet Series 100 & 440) airplanes
2017-04-04	R 2012-16-08	BAE Systems (Operations) Limited	BAe 146-100A, -200A, and -300A; Avro 146-RJ70A, 146-RJ85A, and 146-RJ100A airplanes
2017-04-05	R 2011-10-17	Airbus	A300 B2-1A, B2-1C, B4-2C, B2K-3C, B4-103, B2-203, and B4-203 airplanes
2017-04-06		United Instruments, Inc.	5934 series altimeters
2017-04-07		The Boeing Company	757-200, -200PF, -200CB, and -300 series airplanes
2017-04-08	R 2008-13-12 R1	The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2017-04-09	R 2012-22-12	Airbus	A330-243, -243F, -341, -342, and -343 airplanes
2017-04-10		Airbus	A318, A319, A320, A321 airplanes
2017-04-11		The Boeing Company	737-600, -700, -700C, -800, and -900 series airplanes
2017-04-12		Embraer	EMB-135, EMB-145 airplanes
2017-04-13		The Boeing Company	747-8 and 747-8F series airplanes
2017-04-15		Learjet Inc.	36A airplanes
2017-05-01		Airbus	A300 B2-1A, B2-1C, B2K-3C, B2-203, B4-2C, B4-103, and B4-203 airplanes
2017-05-02		Airbus	A318, A319, A320, A321 airplanes
2017-05-06		The Boeing Company	767-200 and -300 series airplanes
2017-05-07		The Boeing Company	777-200 and -300 series airplanes
Biweekly 2017-06			
2017-05-09		CFM International S.A.	CFM56-5B, CFM56-5B/P, CFM56-5B/3, CFM56-5B/2P, CFM56-5B/P1, CFM56-5B/2P1, and CFM56-5B/3B1 engines
2017-05-11	R 2012-08-11	Bombardier, Inc.	DHC-8-400, -401, and -402 airplanes
2017-05-10	R 2015-16-02	Airbus	A330-201, A330-202, A330-203, A330-223, A330-243, A330-223F, A330-243F, A330-301, A330-302, A330-303, A330-321, A330-322, A330-323, A330-341, A330-342, and A330-343 airplanes
2017-05-05		Pratt & Whitney Division	PW4074, PW4074D, PW4077, PW4077D, PW4084D, PW4090, and PW4090-3 turbofan engines
2017-05-12		Airbus	A318-112; A319-111, -112, -115, -132, and -133; A320-214, -232, and -233; A321-211, -212, -213, -231, and -232 airplanes



2017-05-09 CFM International S.A.: Amendment 39-18820; Docket No. FAA-2016-9128; Directorate Identifier 2016-NE-19-AD.

(a) Effective Date

This AD becomes effective April 13, 2017.

(b) Affected ADs

None.

(c) Applicability

This AD applies to CFM International S.A. (CFM) CFM56-5B models, CFM56-5B/P models, CFM56-5B/3 models, CFM56-5B/2P models, CFM56-5B/P1 models, CFM56-5B/2P1 models, and CFM56-5B/3B1 models engines with a radial drive shaft (RDS) serial number (S/N) listed in Appendix A of CFM Service Bulletin (SB) CFM56-5B S/B 72-0934, dated August 1, 2016, installed.

(d) Subject

Air Transport Association (ATA) of America Code 83, Accessory Gearboxes.

(e) Unsafe Condition

This AD was prompted by reports of the failure of the RDS on CFM CFM56-5B engines. We are issuing this AD to prevent failure of the RDS, which could lead to failure of one or more engines, loss of thrust control, and damage to the airplane.

(f) Compliance

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

Within 6 months after the effective date of this AD, remove the RDS assembly, part number (P/N) 305-165-101-0, and RDS outer housing, P/N 301-295-106-0, and replace with parts eligible for installation.

(g) Installation Prohibition

After the effective date of this AD, do not install on any engine, an RDS with an S/N identified in Appendix A of CFM SB CFM56-5B S/B 72-0934, dated August 1, 2016.

(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 Kasra Sharifi, Aerospace Engineer, Engine Certification Office, FAA, Engine & Propeller Directorate, 1200 District Avenue, Burlington, MA 01803; phone: 781-238-7773; fax: 781-238-7199; email: kasra.sharifi@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 51.

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

(i) CFM International S.A. (CFM) Service Bulletin CFM56-5B S/B 72-0934, dated August 1, 2016.

(ii) Reserved.

(3) For CFM service information identified in this AD, contact CFM International Inc., Aviation Operations Center, 1 Neumann Way, M/D Room 285, Cincinnati, OH 45125; phone: 877-432-3272; fax: 877-432-3329; email: aviation.fleetsupport@ge.com.

(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 February 24, 2017.

Carlos A Pestana,
Acting Manager, Engine & Propeller Directorate,
Aircraft Certification Service.



2017-05-11 Bombardier, Inc.: Amendment 39-18822; Docket No. FAA-2016-8183; Directorate Identifier 2015-NM-083-AD.

(a) Effective Date

This AD is effective April 17, 2017.

(b) Affected ADs

This AD replaces AD 2012-08-11, Amendment 39-17028 (77 FR 24351, April 24, 2012) (“AD 2012-08-11”).

(c) Applicability

This AD applies to Bombardier, Inc. Model DHC-8-400, -401, and -402 airplanes, certificated in any category, serial numbers 4001 through 4424 inclusive.

(d) Subject

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

(e) Reason

This AD was prompted by test reports that showed that failure of a retract port flexible hose of a main landing gear (MLG) retraction actuator could cause excessive hydraulic fluid leakage. We are issuing this AD to prevent hydraulic fluid leakage in the event of a retract port flexible hose failure; this condition could lead to an undamped extension of the MLG and could result in MLG structural failure, leading to an unsafe asymmetric landing configuration.

(f) Compliance

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

(g) Retained Repetitive Inspections and Follow-on Action, With New Reference

This paragraph restates the requirements of paragraph (g) of AD 2012-08-11, with new reference to terminating action. Within 600 flight hours after May 29, 2012 (the effective date of AD 2012-08-11), do a detailed inspection for defects and damage of the retract port flexible hose of the left and right MLG retraction actuators, in accordance with the Accomplishment Instructions of Bombardier Service Bulletin 84-32-89, dated March 22, 2011. Repeat the inspection thereafter at intervals not to exceed 600 flight hours. If any defect or damage is found, before further flight, replace the retract port flexible hose with a new or serviceable retract port flexible hose, in accordance with the Accomplishment Instructions of Bombardier Service Bulletin 84-32-89, dated March 22, 2011. Doing the actions required by paragraph (h) of this AD terminates the inspections required by this paragraph.

(h) New Requirement of This AD: Reorient MLG Retraction Actuators

Within 6,000 flight hours or 36 months, whichever occurs first after the effective date of this AD: Reorient the MLG retraction actuator by incorporating Bombardier Modification Summaries 4-902418 and 4-902327, in accordance with the Accomplishment Instructions of the applicable service information specified in paragraphs (h)(1) and (h)(2) of this AD. Accomplishment of the actions required by this paragraph terminates the actions required by paragraph (g) of this AD.

(1) Bombardier Service Bulletin 84-32-105, Revision A, dated April 24, 2015; and Goodrich Service Bulletin 46550-32-99 R2, dated February 19, 2015.

(2) Bombardier Service Bulletin 84-32-106, Revision B, dated June 18, 2015; and Goodrich Service Bulletin 46455-32-100 R1, dated March 20, 2013.

(i) Credit for Previous Actions

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

(1) Bombardier Service Bulletin 84-32-105, dated September 28, 2012.

(2) Bombardier Service Bulletin 84-32-106, dated September 10, 2012.

(3) Bombardier Service Bulletin 84-32-106, Revision A, dated April 24, 2015.

(j) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, New York Aircraft Certification Office (ACO), ANE-170, 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 New York ACO, send it to ATTN: Program Manager, Continuing Operational Safety, FAA, New York ACO, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7300; fax 516-794-5531.

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

(ii) AMOCs approved previously for AD 2012-08-11 are approved as AMOCs for the corresponding provisions of 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, New York ACO, ANE-170, FAA; or Transport Canada Civil Aviation (TCCA); or Bombardier, Inc.'s TCCA Design Approval Organization (DAO). If approved by the DAO, the approval must include the DAO-authorized signature.

(k) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) Canadian AD CF-2011-14R1, dated May 21, 2015, for related information. This MCAI may be found in the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2016-8183.

(2) Service information identified in this AD that is not incorporated by reference is available at the addresses specified in paragraphs (l)(4), (l)(5), and (l)(6) of this AD.

(I) Material Incorporated by Reference

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

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

(i) Bombardier Service Bulletin 84-32-105, Revision A, dated April 24, 2015.

(ii) Bombardier Service Bulletin 84-32-106, Revision B, dated June 18, 2015.

(iii) Goodrich Service Bulletin 46550-32-99 R2, dated February 19, 2015.

(iv) Goodrich Service Bulletin 46455-32-100 R1, dated March 20, 2013.

(3) The following service information was approved for IBR on May 29, 2012 (77 FR 24351, April 24, 2012).

(i) Bombardier Service Bulletin 84-32-89, dated March 22, 2011.

(ii) Reserved.

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

(5) For Goodrich service information identified in this AD, contact Goodrich Aerospace Canada Ltd., Landing Systems, 1400 South Service Road, West Oakville, ON, Canada L6L 5Y7; telephone +1-877-808-7575; fax: +1-905-825-6320; email: crc@utas.utc.com; Internet: <https://techpubs.goodrich.com/ContactUs>.

(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 February 28, 2017.

Michael Kaszycki,
Acting Manager, Transport Airplane Directorate,
Aircraft Certification Service.



2017-05-10 Airbus: Amendment 39-18821; Docket No. FAA-2016-9069; Directorate Identifier 2016-NM-012-AD.

(a) Effective Date

This AD is effective April 17, 2017.

(b) Affected ADs

This AD replaces AD 2015-16-02, Amendment 39-18227 (80 FR 48019, August 11, 2015) (“AD 2015-16-02”).

(c) Applicability

This AD applies to Airbus Model A330-201, A330-202, A330-203, A330-223, A330-243, A330-223F, A330-243F, A330-301, A330-302, A330-303, A330-321, A330-322, A330-323, A330-341, A330-342, and A330-343 airplanes, certificated in any category, with an original certificate of airworthiness or original export certificate of airworthiness issued on or before October 19, 2015.

(d) Subject

Air Transport Association (ATA) of America Code 05, Time Limits/Maintenance Checks.

(e) Reason

This AD was prompted by a revision of the airworthiness limitations items (ALI) document, which provides new and more restrictive maintenance requirements and airworthiness limitations for airplane structures and systems. We are issuing this AD to prevent reduced structural integrity and reduced control of these airplanes due to the failure of system components.

(f) Compliance

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

(g) Retained Maintenance Program Revision and Actions, With No Changes

This paragraph restates the requirements of paragraph (g) of AD 2015-16-02, with no changes. Within 6 months after September 15, 2015 (the effective date of AD 2015-16-02), revise the maintenance program or inspection program, as applicable, by incorporating Airbus A330 Airworthiness Limitations Section (ALS) Part 4-Aging Systems Maintenance, Revision 04, dated August 27, 2013; and Airbus A330 ALS Part 4-Aging Systems Maintenance (ASM), Variation 4.1 and Variation 4.2, both dated July 23, 2014. The initial compliance times for the actions are within the applicable compliance times specified in the Record of Revisions pages of Airbus A330 ALS Part 4-Aging Systems Maintenance, Revision 04, dated August 27, 2013; and Airbus A330 ALS Part 4-Aging Systems Maintenance (ASM), Variation 4.1 and Variation 4.2, both dated July 23, 2014; or

within 6 months after September 15, 2015; whichever is later; except as required by paragraph (h) of this AD.

(h) Retained Exceptions to Initial Compliance Times, With References to New Service Information

This paragraph restates the requirements of paragraph (h) of AD 2015-16-02, with references to new service information.

(1) Where Airbus A330 ALS Part 4—Aging Systems Maintenance, Revision 04, dated August 27, 2013; or Airbus A330 ALS Part 4—System Equipment Maintenance Requirements (SEMR), Revision 05, dated October 19, 2015; define a calendar compliance time for elevator servo-controls having part number (P/N) SC4800-2, SC4800-3, SC4800-4, SC4800-6, SC4800-7, or SC4800-8 as “August 31, 2004,” the calendar compliance time is June 13, 2007 (34 months after August 13, 2004 (the effective date of AD 2004-13-25, Amendment 39-13707 (69 FR 41394, July 9, 2004))).

(2) Where Airbus A330 ALS Part 4—Aging Systems Maintenance, Revision 04, dated August 27, 2013; or Airbus A330 ALS Part 4—SEMR, Revision 05, dated October 19, 2015; define a calendar compliance time for spoiler servo-controls (SSCs) having P/N 1386A0000-01, 1386B0000-01, 1387A0000-01, or 1387B0000-01 as “December 31, 2003,” the calendar compliance time is November 19, 2005 (13 months after October 19, 2004 (the effective date of AD 2004-18-14, Amendment 39-13793 (69 FR 55326, September 14, 2004))).

(3) Where Airbus A330 ALS Part 4—Aging Systems Maintenance, Revision 04, dated August 27, 2013; or Airbus A330 ALS Part 4—SEMR, Revision 05, dated October 19, 2015; define a calendar compliance time for elevator servo-controls having P/N SC4800-73, SC4800-93, SC4800-103, and SC4800-113 as “June 30, 2008,” the calendar compliance time is September 16, 2009 (17 months after April 16, 2008 (the effective date of AD 2008-06-07, Amendment 39-15419 (73 FR 13103, March 12, 2008; corrected April 15, 2008 (73 FR 20367)))).

(4) The initial compliance time for replacement of the retraction brackets of the main landing gear (MLG) having a part number specified in paragraphs (h)(4)(i) through (h)(4)(xvi) of this AD is before the accumulation of 19,800 total landings on the affected retraction brackets of the MLG, or within 900 flight hours after April 9, 2012 (the effective date of AD 2012-04-07, Amendment 39-16963 (77 FR 12989, March 5, 2012)), whichever occurs later.

- (i) 201478303.
- (ii) 201478304.
- (iii) 201478305.
- (iv) 201478306.
- (v) 201478307.
- (vi) 201478308.
- (vii) 201428380.
- (viii) 201428381.
- (ix) 201428382.
- (x) 201428383.
- (xi) 201428384.
- (xii) 201428385.
- (xiii) 201428378.
- (xiv) 201428379.
- (xv) 201428351.
- (xvi) 201428352.

(5) Where Airbus A330 ALS Part 4—Aging Systems Maintenance, Revision 04, dated August 27, 2013; or Airbus A330 ALS Part 4—SEMR, Revision 05, dated October 19, 2015; define a calendar compliance time for the modification of SSCs on three hydraulic circuits having P/N MZ4339390-01X, MZ4306000-01X, MZ4339390-02X, MZ4306000-02X, MZ4339390-10X, or MZ4306000-10X

as “March 5, 2010,” the calendar compliance time is April 14, 2011 (18 months after October 14, 2009 (the effective date of AD 2009-18-20, Amendment 39-16017 (74 FR 46313, September 9, 2009))) (“AD 2009-18-20”).

(6) Where Note (6) of “ATA 27-64-00 Flight Control–Spoiler Hydraulic Actuation,” of Sub-part 4-2-1, “Life Limits,” of Sub-part 4-2, “Systems Life Limited Components,” of Airbus A330 ALS Part 4–Aging Systems Maintenance, Revision 04, dated August 27, 2013; or Note (17) of Sub-Part 1, “Life Limits,” of Section 3, “System Life-Limited Components,” of Airbus A330 ALS Part 4–SEMR, Revision 05, dated October 19, 2015; define a calendar date of “September 5, 2008,” as a date for the determination of accumulated flight cycles since the aircraft initial entry into service, the date is October 14, 2009 (the effective date of AD 2009-18-20).

(7) Where Note (6) of “ATA 27-64-00 Flight Control–Spoiler Hydraulic Actuation,” of Sub-part 4-2-1, “Life Limits,” of Sub-part 4-2, “Systems Life Limited Components,” of Airbus A330 ALS Part 4–Aging Systems Maintenance, Revision 04, dated August 27, 2013; or Note (17) of Sub-Part 1, “Life Limits,” of Section 3, “System Life-Limited Components,” of Airbus A330 ALS Part 4–SEMR, Revision 05, dated October 19, 2015; define a calendar compliance time as “March 5, 2010,” for the modification of affected servo controls, the calendar compliance time is April 14, 2011 (18 months after October 14, 2009 (the effective date of AD 2009-18-20)).

(i) Retained No Alternative Actions or Intervals, With Revised Compliance Language

This paragraph restates the requirements of paragraph (i) of AD 2015-16-02, with revised compliance language. Except as required by paragraph (j) of this AD: After accomplishing the revision required by paragraph (g) of this AD, no alternative actions (e.g., inspections) or intervals may be used unless the actions or intervals are approved as an alternative method of compliance (AMOC) in accordance with the procedures specified in paragraph (l)(1) of this AD.

(j) New Requirement of This AD: Maintenance or Inspection Program Revision and Actions

Within 90 days after the effective date of this AD, revise the maintenance program or inspection program, as applicable, by incorporating Airbus A330 Airworthiness Limitations Section (ALS) Part 4–SEMR, Revision 05, dated October 19, 2015. The initial compliance times for the actions specified in Airbus A330 ALS Part 4–SEMR, Revision 05, dated October 19, 2015, are within the applicable compliance times specified in Airbus A330 ALS Part 4–SEMR, Revision 05, dated October 19, 2015, or within 60 days after the effective date of this AD, whichever is later, except as required by paragraph (h) of this AD. Accomplishing the revision of the maintenance program or inspection program, as applicable, required by this paragraph terminates the requirements of paragraph (g) of this AD. Revising the maintenance program or inspection program, as applicable, by incorporating Airbus A330 ALS Part 4–SEMR–Variation 5.1, dated December 20, 2015, is an acceptable method of compliance for the components specified in the variation.

(k) New Requirement of This AD: No Alternative Actions or Intervals

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

(l) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International 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: Vladimir Ulyanov, Aerospace Engineer, International Branch, ANM-116, Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone: 425-227-1138; fax: 425-227-1149. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov.

(i) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office. The AMOC approval letter must specifically reference this AD.

(ii) AMOCs approved previously for AD 2015-16-02 are approved as AMOCs for the corresponding provisions of paragraph (g) of 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 Airbus's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(m) Related Information

Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA AD 2016-0011, dated January 13, 2016, for related information. This MCAI may be found in the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2016-9069.

(n) Material Incorporated by Reference

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

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

(i) Airbus A330 Airworthiness Limitations Section (ALS) Part 4–System Equipment Maintenance Requirements (SEMR), Revision 05, dated October 19, 2015.

(ii) Airbus A330 ALS Part 4–System Equipment Maintenance Requirements (SEMR)–Variation 5.1, dated December 20, 2015.

(3) The following service information was approved for IBR on September 15, 2015 (80 FR 48019, August 11, 2015).

(i) Airbus A330 Airworthiness Limitations Section (ALS) Part 4–Aging Systems Maintenance, Revision 04, dated August 27, 2013.

(ii) Airbus A330 ALS Part 4–Aging Systems Maintenance (ASM), Variation 4.1, dated July 23, 2014.

(iii) Airbus A330 ALS Part 4–Aging Systems Maintenance (ASM), Variation 4.2, dated July 23, 2014.

(4) For service information identified in this AD, contact Airbus SAS, Airworthiness Office–EAL, 1 Rond Point Maurice Bellonte, 31707 Blagnac Cedex, France; telephone: +33 5 61 93 36 96; fax: +33 5 61 93 45 80; email: airworthiness.A330-A340@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 February 28, 2017.
Michael Kaszycki,
Acting Manager, Transport Airplane Directorate,
Aircraft Certification Service.



2017-05-05 Pratt & Whitney Division: Amendment 39-18815; Docket No. FAA-2016-8836; Directorate Identifier 2016-NE-17-AD.

(a) Effective Date

This AD is effective April 13, 2017.

(b) Affected ADs

None.

(c) Applicability

This AD applies to all Pratt & Whitney Division (PW) PW4074, PW4074D, PW4077, PW4077D, PW4084D, PW4090, and PW4090-3 turbofan engines.

(d) Unsafe Condition

This AD was prompted by an uncontained failure of a high-pressure turbine (HPT) hub during takeoff. We are issuing this AD to prevent failure of the HPT 1st stage hub, uncontained hub release, damage to the engine, and damage to the airplane.

(e) Compliance

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

(1) After the effective date of this AD, perform the HPT 1st stage hub web/rim fillet replication inspection and measurement as follows:

(i) For PW4074D, PW4077D, PW4084D, PW4090, and PW4090-3 engine models, the next time the engine is disassembled sufficiently to expose the HPT module, use the Accomplishment Instructions, Part A, paragraphs 2.A. and 2.B.(1) through 2.B.(4) of PW Service Bulletin (SB) PW4G-112-72-342, dated September 23, 2016, to do the inspection.

(ii) For PW4074 and PW4077 engine models, the next time the HPT module is disassembled sufficiently to expose the HPT 1st stage hub, use the Accomplishment Instructions Part B, paragraphs 1.A. and 1.B.(1) through 1.B.(4) of PW SB PW4G-112-72-342, dated September 23, 2016, to do the inspection.

(2) If the hub fails the inspection, remove the hub from service before further flight and replace with a part eligible for installation.

(f) Installation Prohibition

After the effective date of this AD, do not install, or re-install into any engine, any HPT 1st stage hub that has not been inspected and passed the inspection required by paragraph (e) of this AD.

(g) Credit for Previous Actions

You may take credit for the replication inspection of the HPT 1st stage hub that is required by paragraph (e)(1) of this AD, if you performed the inspection before the effective date of this AD using PW Special Instruction (SI) No. 250F-16, dated June 22, 2016, or PW SI No. 250F-16, Revision A, dated July 14, 2016.

(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

(1) For more information about this AD, contact Jo-Ann Theriault, Aerospace Engineer, Engine Certification Office, FAA, Engine & Propeller Directorate, 1200 District Avenue, Burlington, MA 01803; phone: 781-238-7105; fax: 781-238-7199; email: jo-ann.theriault@faa.gov.

(2) PW SI No. 250F-16, dated June 22, 2016, and PW SI No. 250F-16, Revision A, dated July 14, 2016, which are not incorporated by reference, can be obtained from PW using the contact information in paragraph (j)(3) of this AD.

(j) Material Incorporated by Reference

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

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

(i) Pratt & Whitney Division Service Bulletin PW4G-112-72-342, dated September 23, 2016.

(ii) Reserved.

(3) For PW service information identified in this AD, contact Pratt & Whitney Division, 400 Main St., East Hartford, CT 06118; phone: 800-565-0140; fax: 860-565-5442.

(4) You may view this service information at the 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 February 27, 2017.

Robert J. Ganley,
Acting Manager, Engine & Propeller Directorate,
Aircraft Certification Service.



2017-05-12 Airbus: Amendment 39-18823; Docket No. FAA-2016-6431; Directorate Identifier 2015-NM-182-AD.

(a) Effective Date

This AD is effective April 17, 2017.

(b) Affected ADs

None.

(c) Applicability

This AD applies to the Airbus airplanes identified in paragraphs (c)(1) through (c)(4) of this AD, certificated in any category; manufacturer serial numbers 4895, 4903, 4911, 4919, 4929, 4938, 4942, 4944, 4946, 4948, and 4951, 4956 through 5541 inclusive, 5544, 5547, 5550, 5551, 5553, 5556, 5559, 5561, 5562, 5563, 5565, 5566, 5570, 5572, 5576, and 5578.

- (1) Airbus Model A318-112 airplanes.
- (2) Airbus Model A319-111, -112, -115, -132, and -133 airplanes.
- (3) Airbus Model A320-214, -232, and -233 airplanes.
- (4) Airbus Model A321-211, -212, -213, -231, and -232 airplanes.

(d) Subject

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

(e) Reason

This AD was prompted by a quality control review on the final assembly line, which determined that aluminum alloy with inadequate heat treatment had been delivered and used on several structural parts. We are issuing this AD to detect and replace structural parts made of aluminum alloy with inadequate heat treatment. This condition could result in reduced structural integrity of the airplane.

(f) Compliance

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

(g) One-time Measurement

Within 6 years since the date of issuance of the original certificate of airworthiness or the date of issuance of the original export certificate of airworthiness: Do a one-time eddy current conductivity measurement of the cabin, cargo compartment, and frame structural parts identified in the "Affected P/N (part number)" column of tables 1, 2, and 3 to paragraphs (g) and (i) of this AD to determine if aluminum alloy with inadequate heat treatment was used, in accordance with the Accomplishment

Instructions of the applicable service information identified in paragraphs (g)(1), (g)(2), and (g)(3) of this AD, except as required by paragraph (h) of this AD.

(1) For cabin structural parts: Airbus Service Bulletin A320-53-1292, dated July 23, 2015; including Appendixes 01 and 02, dated July 23, 2015.

(2) For cargo compartment structural parts: Airbus Service Bulletin A320-53-1293, dated July 30, 2015; including Appendixes 01 and 02, dated July 30, 2015.

(3) For frame structural parts: Airbus Service Bulletin A320-53-1294, dated July 23, 2015; including Appendixes 01 and 02, dated July 23, 2015.

**Table 1 to Paragraphs (g) and (i) of This AD—Parts To Be Inspected/Installed
[Airbus Service Bulletin A320-53-1292]**

Affected P/N	Acceptable replacement P/N	Area
D2127245500000	D2127245500000	Cabin.
D2127247600200	D2127247600200	Cabin.
D2127247600300	D2127247600300	Cabin.
D2127399900200	D2127399900200	Cabin.
D2127399900300	D2127399900300	Cabin.
D2127698900800	D2127698900800	Cabin.
D2127698902400	D2127698902400	Cabin.
D2527075131200	D2527075131251	Cabin.
D2527075131300	D2527075131351	Cabin.
D2527075138000	D2527075138000	Cabin.
D2527075138100	D2527075138100	Cabin.
D2527075138200	D2527075138200	Cabin.
D2527075138300	D2527075138300	Cabin.
D2527075138600	D2527075138651	Cabin.
D2527075138800	D2527075138851	Cabin.
D2527240220600	D2527240220651	Cabin.
D2527240220700	D2527240220751	Cabin.
D2527240220800	D2527240220851	Cabin.
D9249591201000	D9249591201000	Cabin.
D9249591201800	D9249591201800	Cabin.
D9249591227800	D9249591227851	Cabin.
D9249591227900	D9249591227951	Cabin.
D9249591228000	D9249591228051	Cabin.
D9249591228100	D9249591228151	Cabin.

**Table 2 to Paragraphs (g) and (i) of This AD–Parts To Be Inspected/Installed
[Airbus Service Bulletin A320-53-1293]**

Affected P/N	Acceptable replacement P/N	Area
D2707033520000	D2707033520000	Cargo.
D2827027120000	D2827027120000	Cargo.
D2827093500400	D2827093500400	Cargo.
D2907013701200	D2907013701251	Cargo.
D2907013800400	D2907013800451	Cargo.
D3247012900000	D3247012900051	Cargo.
D3817003820000	D3817003820000	Cargo.
D3817012320200	D3817012320251	Cargo.
D3837021201600	D3837021201600	Cargo.
D3837033300400	D3837033300400	Cargo.
D4918518320200	D4918518320200	Cargo.
D5347043420400	D5347043420451	Cargo.
D9248511000000	D9248511000051	Cargo.
D9249254100200	D9249254100251	Cargo.
D9249282300000	D9249282300000	Cargo.

**Table 3 to Paragraphs (g) and (i) of This AD–Parts To Be Inspected/Installed
[Airbus Service Bulletin A320-53-1294]**

Affected P/N	Acceptable replacement P/N	Area
D2827098326800	D2827098326851	Frame.
D5347051620600	D5347051620651	Frame.
D5347051720600	D5347051720651	Frame.
D5347057120000	D5347057120051	Frame.
D5347067520600	D5347067520651	Frame.
D5347067521400	D5347067521451	Frame.
D5347067520800	D5347067520851	Frame.
D5347067521000	D5347067521051	Frame.
D5347067521600	D5347067521651	Frame.
D5347067620600	D5347067620600	Frame.
D5347067720200	D5347067720251	Frame.
D5347067720400	D5347067720451	Frame.
D5347986520200	D5347986520251	Frame.

(h) Exception to Paragraph (g) of This AD

Where Subtask 531293-832-207-001 of Airbus Service Bulletin A320-53-1293, dated July 23, 2015; including Appendixes 01 and 02, dated July 23, 2015, specifies inspecting Item 19 of Figure A-GVAAA for material heat treatment conformity, and that figure (incorrectly) identifies the inspection area for Item 19 as the four hinge brackets adjacent to the A-profile, this AD requires inspecting part number D491-85183-202-00, which is the A-profile, and not just the brackets.

Note 1 to paragraph (h) of this AD: Airbus Technical Adaptation 80095365/011/2016, Issue 1, dated December 1, 2016 (“TA”) specifies that for Figure A-GVAAA, Sheet 01, of Airbus Service Bulletin A320-53-1293, dated July 30, 2015, Item 19 should point to part number D491-85183-202-00 (and not just to the brackets). The TA also specifies that for Figure A-GRAAA, Sheet 01, of Airbus Service Bulletin A320-53-1293, dated July 30, 2015, the correct Item 19 identification is part number D491-85183-202-00.

(i) Replacement

If during the measurement required by paragraph (g) of this AD, any affected part number specified in table 1, 2, or 3 to paragraphs (g) and (i) of this AD is found to have a measured value greater than that specified in Figure A-GFAAA, Sheet 01, “Inspection Flowchart,” of the applicable service information identified in paragraphs (g)(1), (g)(2), and (g)(3) of this AD: Before further flight, replace the affected part with the corresponding acceptable replacement part specified in table 1, 2, or 3 to paragraphs (g) and (i) of this AD, in accordance with the Accomplishment Instructions of the applicable service information identified in paragraphs (g)(1), (g)(2), and (g)(3) of this AD.

(j) No Reporting Requirement

Although the service information identified in paragraphs (g)(1), (g)(2), and (g)(3) of this AD specifies to submit certain information to the manufacturer, this AD does not include that requirement.

(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: Sanjay Ralhan, Aerospace Engineer, International Branch, ANM-116, Transport Airplane Directorate, FAA, 1601 Lind Avenue SW., Renton, WA 98057-3356; telephone: 425-227-1405; 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.

(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 Airbus's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(3) Required for Compliance (RC): If any service information contains procedures or tests that are identified as RC, those procedures and tests must be done to comply with this AD; any

procedures or tests that are not identified as RC are recommended. Those procedures and tests that are not identified as RC may be deviated from using accepted methods in accordance with the operator's maintenance or inspection program without obtaining approval of an AMOC, provided the procedures and tests identified as RC can be done and the airplane can be put back in an airworthy condition. Any substitutions or changes to procedures or tests identified as RC require approval of an AMOC.

(l) Related Information

Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA AD 2015-0219, dated November 3, 2015, for related information. This MCAI may be found in the AD docket on the Internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2016-6431.

(m) Material Incorporated by Reference

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

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

(i) Airbus Service Bulletin A320-53-1292, dated July 23, 2015; including Appendixes 01 and 02, dated July 23, 2015.

(ii) Airbus Service Bulletin A320-53-1293, dated July 30, 2015; including Appendixes 01 and 02, dated July 30, 2015.

(iii) Airbus Service Bulletin A320-53-1294, dated July 23, 2015; including Appendixes 01 and 02, dated July 23, 2015.

(3) For service information identified in this AD, contact Airbus, Airworthiness Office–EIAS, 1 Rond Point Maurice Bellonte, 31707 Blagnac Cedex, France; telephone: +33 5 61 93 36 96; fax: +33 5 61 93 44 51; email: account.airworth-eas@airbus.com; Internet: <http://www.airbus.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 March 2, 2017.

Michael Kaszycki,
Acting Manager, Transport Airplane Directorate,
Aircraft Certification Service.