

**FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES**

**LARGE AIRCRAFT
BIWEEKLY 2019-08**

4/1/2019 - 4/14/2019



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			
Biweekly 2019-01			
2018-22-07		Engine Alliance	GP7270, GP7272, and GP7277 model turbofan engines
2018-23-12	COR	Zodiac Aero Evacuation Systems	Fusible plugs installed on emergency evacuation equipment
2018-25-08	R 2017-22-07	Airbus SAS	A319, A320, A321 airplanes
2018-26-01	R 2018-18-01	CFM International S.A.	CFM56-7B turbofan engines
2018-26-03		The Boeing Company	757-200 series airplanes
2018-26-04		Airbus SAS	A350-941 and -1041 airplanes
2018-26-05	A 2015-19-01	The Boeing Company	777-200, 777-200LR, 777-300, 777-300ER, and 777F series airplanes
2018-26-06		The Boeing Company	737-600, -700, -700C, -800, -900, and -900ER series airplanes
Biweekly 2019-02			
2019-01-01		The Boeing Company	787-8 airplanes
Biweekly 2019-03			
2019-01-01	COR	The Boeing Company	787-8 airplanes
Biweekly 2019-04			
2018-23-04		Bombardier, Inc.	DHC-8-102, -103, -106, -201, -202, -301, -311, and -315 airplanes
2018-24-01		International Aero Engines	PW1133G-JM, PW1133GA-JM, PW1130G-JM, PW1127G-JM, PW1127GA-JM, PW1127G1-JM, PW1124G-JM, PW1124G1-JM, and PW1122G-JM turbofan engines
2019-01-03	R 2016-18-01	The Boeing Company	737-600, -700, -700C, -800, -900, and -900ER series airplanes
2019-01-04		The Boeing Company	787 series airplanes
2019-01-05	A 2017-05-10	Airbus SAS	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
2019-01-06		The Boeing Company	737-100, -200, -200C, -300, -400, and -500 series airplanes
2019-01-07		Airbus SAS	A321-111, -112, -131, -211, -212, -213, -231, and -232 airplanes
2019-01-08		The Boeing Company	777-200, -200LR, -300, and -300ER series airplanes
2019-02-01	R 2018-16-07	General Electric Company	GEnx-1B54, -1B58, -1B64, -1B67, -1B70, -1B54/P1, -1B58/P1, -1B64/P1, -1B67/P1, -1B70/P1, -1B54/P2, -1B58/P2, -1B64/P2, -1B67/P2, -1B70/P2, -1B70C/P1, -1B70/72/P1, -1B70/75/P1, -1B74/75/P1, -1B75/P1, -1B70C/P2, -1B70/72/P2, -1B70/75/P2, -1B74/75/P2, -1B75/P2, -1B76/P2, -1B76A/P2, -1B78/P2, -2B67, -2B67B, and -2B67/P turbofan engines
2019-02-03		The Boeing Company	787-8, 787-9, and 787-10 airplane
2019-02-04	R 2018-22-05	Engine Alliance	GP7270, GP7272, and GP7277 turbofan engines
2019-03-01		Pratt & Whitney Division	PW4074, PW4074D, PW4077, PW4077D, PW4084D, PW4090, and PW4090-3 turbofan engines
Biweekly 2019-05			
2018-21-14		Zodiac Aerotechnics	MC10 series crew oxygen mask regulators
2018-26-07		Airbus SAS	A350-941 and -1041 airplanes
2018-26-08		Airbus SAS	Note: Was missing from BW2019-01 A320-214, A320-232, A320-233, A321-211, and A321-231 airplanes
2019-03-03	A 2016-17-03	Airbus SAS	Note: Was missing from BW2019-01 A318, A319, A320, A321 airplanes
2019-03-04	R 2018-11-16	Engine Alliance	GP7270 and GP7277 model turbofan engines
2019-03-06		The Boeing Company	737-300, -400, and -500 series airplanes
2019-03-07	R 2017-16-05	The Boeing Company	737-600, -700, -700C, -800, -900, and -900ER series airplanes
2019-03-08		Airbus SAS	A350-941 airplanes
2019-03-09		Airbus SAS	A310-304, -322, -324, and -325 airplanes

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2019-03-10	R 2017-07-05	Airbus SAS	A300 airplanes
2019-03-11		Airbus SAS	A350-941 and -1041 airplanes
2019-03-15		Airbus SAS	A330-201, -202, and -203; A330-301, -302, and -303 airplanes
2019-03-17	A 2017-25-04	Airbus SAS	A318, A319, A320, A321 airplanes
2019-03-19		Saab AB, Saab Aeronautics	SAAB 2000 airplanes
2019-03-20	A 2014-16-23	Dassault Aviation	FALCON 7X airplanes
2019-03-21	A 2016-16-09		
		Embraer S.A.	ERJ 190-100 STD, -100 LR, and -100 IGW; ERJ 190-200 STD, -200 LR, and -200 IGW airplanes
2019-03-23		Airbus SAS	A330, A340 airplanes
Biweekly 2019-06			
2019-03-13		Gulfstream Aerospace LP	Gulfstream G150 airplanes
2019-03-14		Dassault Aviation	FAN JET FALCON and FAN JET FALCON SERIES C, D, E, F, and G airplanes
2019-03-16	A 2006-25-06	Fokker Services B.V.	F.27 Mark 100, 200, 300, 400, 500, 600, and 700 airplanes
2019-03-18	A 97-04-08		
		Airbus SAS	A318, A319, A320 airplanes
2019-03-22		Bombardier, Inc.	BD-700-1A10 and BD-700-1A11 airplanes
2019-03-24		The Boeing Company	737-400 series airplanes
2019-03-25	A 2008-02-15	Airbus SAS	A318, A319, A320, A321 airplanes
2019-03-26		The Boeing Company	737-600, -700, -700C, -800, -900, and -900ER series airplanes
2019-03-27		Dassault Aviation	Falcon 10 airplanes
2019-03-28	R 2016-07-23	Airbus SAS	A318, A319, A320, A321 airplanes
2019-03-30		Empresa Brasileira de Aeronautica S.A.	EMB-135, EMB-145 airplanes
2019-05-01	R 2017-11-06	Pratt & Whitney Division	PW2037, PW2037D, PW2037M, PW2040, PW2040D, PW2043, PW2143, PW2643, and F117-PW-100 turbofan engines
2019-05-02	R 2017-22-13	Rolls-Royce plc	RB211-Trent 970-84 and RB211-Trent 972-84 turbofan engines
2019-05-08	R 2015-12-08	Airbus SAS	A318, A319, A320, A321 airplanes
Biweekly 2019-07			
2019-05-07	R 2017-20-01	Honeywell International Inc.	TFE731-20R, -20AR, -20BR, and TFE731-40, -40AR, -40BR, and -40R turbofan engines
2019-05-09		Airbus SAS	A320-251N and -271N, and A321-253N airplanes
2019-05-10		Airbus SAS	A350-941 airplanes
2019-05-12		Bombardier, Inc.	CL-600-2C10, -2D15, -2D24, -2E25 airplanes
2019-05-13	R 2007-22-05	Airbus SAS	A300-600 and A310 series airplanes
2019-05-14	R 2012-02-18	Dassault Aviation	MYSTERE-FALCON 50 airplanes
2019-06-01	R 2018-24-01	International Aero Engines	PW1133G-JM, PW1133GA-JM, PW1130G-JM, PW1127G-JM, PW1127GA-JM, PW1127G1-JM, PW1124G-JM, PW1124G1-JM, and PW1122G-JM turbofan engines
2019-06-02		Pratt & Whitney Division	PW4158 turbofan engines
2019-06-06		International Aero Engines AG	V2500-A1, V2522-A5, V2524-A5, V2525-D5, V2527-A5, V2527E-A5, V2527M-A5, V2528-D5, V2530-A5, V2533-A5 turbofan engines
2019-06-07	R 2016-22-05	Pratt & Whitney Division	Certain PW4000 engines (see AD)
Biweekly 2019-08			
2019-06-01	R 2018-24-01	International Aero Engines	PW1133G-JM, PW1133GA-JM, PW1130G-JM, PW1127G-JM, PW1127GA-JM, PW1127G1-JM, PW1124G-JM, PW1124G1-JM, and PW1122G-JM turbofan engines
2019-06-02	COR	Pratt & Whitney Division	PW4158 turbofan engines
2019-06-03	A 2017-01-08	Airbus SAS	A330 and A340 airplanes
2019-06-08		Airbus SAS	A330-223, A330-223F, A330-321, A330-322, and A330-323 airplanes
2019-06-09		Airbus SAS	A350-941 airplanes

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2019-06-12		Airbus SAS	A330-201, -202, and -203; A330-301, -302, and -303 airplanes
2019-07-03		Zodiac Seats France	536-Series Cabin Attendant Seats



2019-06-01 International Aero Engines: Amendment 39-19599; Docket No. FAA-2018-0735; Product Identifier 2018-NE-26-AD.

(a) Effective Date

This AD is effective April 10, 2019.

(b) Affected ADs

This AD replaces AD 2018-24-01, Amendment 39-19505 (84 FR 2715, February 8, 2019).

(c) Applicability

This AD applies to International Aero Engines (IAE) PW1133G-JM, PW1133GA-JM, PW1130G-JM, PW1127G-JM, PW1127GA-JM, PW1127G1-JM, PW1124G-JM, PW1124G1-JM, and PW1122G-JM turbofan engines with a low-pressure turbine (LPT) 3rd-stage disk with a serial number (S/N) listed in Figure 1 to paragraph (g) of this AD or an LPT 1st-stage disk with an S/N listed in Figure 2 to paragraph (g) of this AD, installed.

(d) Subject

Joint Aircraft System Component (JASC) Code 7250, Turbine Section.

(e) Unsafe Condition

This AD was prompted by a report of manufacturing defects found on delivered LPT 1st- and 3rd-stage disks. We are issuing this AD to prevent failure of the LPT 1st- or 3rd-stage disk. The unsafe condition, if not addressed, could result in uncontained LPT 1st- or 3rd-stage disk release, 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 from service the LPT 1st- and 3rd-stage disk within 30 days after the effective date of this AD, or as identified in paragraphs (g)(1) or (2) of this AD, whichever occurs later, and replace with a part eligible for installation.

(1) Remove the LPT 3rd-stage disk with an S/N listed in Figure 1 to paragraph (g) of this AD at the next piece-part exposure, not to exceed 4,800 cycles since new (CSN).

Figure 1 to Paragraph (g) of this AD – S/Ns of LPT 3rd-stage disk

LLDLAJ4516
LLDLAJ4498
LLDLAJ4518
LLDLAJ4499
LLDLAJ4505
LLDLAJ4511
LLDLAJ4512
LLDLAJ4484
LLDLAJ4594
LLDLAJ4595
LLDLAJ4482
LLDLAJ4500

(2) Remove the LPT 1st-stage disk with an S/N listed in Figure 2 to paragraph (g) of this AD at the next piece-part exposure, not to exceed 2,240 CSN.

Figure 2 to Paragraph (g) of this AD – S/Ns of LPT 1st-stage disk

LLDLAJ6110
LLDLAJ6111
LLDLAJ6114
LLDLAJ6115

(h) 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 (i) 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.

(i) Related Information

For more information about this AD, contact Kevin M. Clark, Aerospace Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: 781-238-7088; fax: 781-238-7199; email: kevin.m.clark@faa.gov.

(j) Material Incorporated by Reference

None.

Issued in Burlington, Massachusetts, on March 19, 2019.
Karen M. Grant,
Acting Manager, Engine and Propeller Standards Branch,
Aircraft Certification Service.



2019-06-02 Pratt & Whitney Division: Amendment 39-19600; Docket No. FAA-2018-0924; Product Identifier 2018-NE-34-AD.

(a) Effective Date

This AD is effective April 30, 2019.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Pratt & Whitney Division PW4158 turbofan engines designated by a -3 on the Engine Data Plate and with the following engine serial numbers: 728534 to 728555; 728557 to 728585; 728587 to 728591; 728593; 728598; 729808 to 729824; or 729826 to 729864.

(d) Subject

Joint Aircraft System Component (JASC) Code 7310, Engine Fuel Distribution.

(e) Unsafe Condition

This AD was prompted by several reports of high cycle fatigue (HCF) cracks found in the fuel nozzle supply manifold tube at the braze joint interface. We are issuing this AD to prevent failure of the fuel nozzles. The unsafe condition, if not addressed, could result in engine fire, 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

No later than the next engine shop visit after the effective date of this AD, do the following:

(1) Remove any of the 24 fuel nozzles, part number (P/N) 51J235 or 51J344, and replace with P/N 51J397.

(2) Replace the fuel nozzle manifold supply assemblies and install new brackets and clamps on the fuel supply manifolds in accordance with the “For Engines Installed on Aircraft” or “For Engines Not Installed on Aircraft” sections, as applicable, of the Accomplishment Instructions in Pratt & Whitney Service Bulletin (SB) PW4ENG 73-224, dated November 8, 2017.

(h) Definitions

For the purpose of this AD, an “engine shop visit” is the induction of an engine into the shop for maintenance involving the separation of pairs of major mating engine case flanges, except for the following situations, which do not constitute an engine shop visit:

- (1) Separation of engine flanges solely for the purposes of transportation of the engine without subsequent maintenance.
- (2) Separation of engine flanges solely for the purposes of replacing the fan or propulsor without subsequent maintenance.

(i) Alternative Methods of Compliance (AMOCs)

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

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

(j) Related Information

For more information about this AD, contact Scott Hopper, Aerospace Engineer, ECO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: 781-238-7154; fax: 781-238-7199; email: scott.hopper@faa.gov.

(k) Material Incorporated by Reference

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

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

(i) Pratt & Whitney Service Bulletin PW4ENG 73-224, dated November 8, 2017.

(ii) [Reserved]

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

(4) You may view this service information at the FAA, Engine and Propeller Standards Branch, 1200 District Avenue, Burlington, MA 01803. For information on the availability of this material at the FAA, call 781-238-7759.

(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, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Burlington, Massachusetts, on March 19, 2019.

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



CORRECTED: The first version of this AD that we posted to our site was missing Table 1.

2019-06-03 Airbus SAS: Amendment 39-19601; Docket No. FAA-2018-0704; Product Identifier 2018-NM-066-AD.

(a) Effective Date

This AD is effective May 9, 2019.

(b) Affected ADs

This AD affects AD 2017-01-08, Amendment 39-18775 (82 FR 1593, January 6, 2017) (“AD 2017-01-08”).

(c) Applicability

This AD applies to the airplanes identified in paragraphs (c)(1), (c)(2), (c)(3), (c)(4), (c)(5), and (c)(6) of this AD, certificated in any category, all manufacturer serial numbers.

- (1) Airbus SAS Model A330-223F and -243F airplanes.
- (2) Airbus SAS Model A330-201, -202, -203, -223, and -243 airplanes.
- (3) Airbus SAS Model A330-301, -302, -303, -321, -322, -323, -341, -342, and -343 airplanes.
- (4) Airbus SAS Model A340-211, -212, and -213 airplanes.
- (5) Airbus SAS Model A340-311, -312, and -313 airplanes.
- (6) Airbus SAS Model A340-541 and -642 airplanes.

(d) Subject

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

(e) Reason

This AD was prompted by reports of depressurization of hydraulic reservoirs (HRs) caused by air leakage from the pressure relief valve (PRV) of the HR due to the extrusion of the O-ring seal from certain HR PRVs. We are issuing this AD to address air leakage from the HR PRV, which could lead to the loss of one or more hydraulic systems, with the possible loss of control of the airplane.

(f) Compliance

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

(g) Definitions for This AD

- (1) Affected HRs are identified in table 1 to paragraphs (g), (h), and (i) of this AD.

(2) Affected parts are PRVs that have part number (P/N) 42F0026 and a serial number (S/N) identified in Safran Vendor Service Bulletin 42-29-005, Revision 01, dated September 26, 2017; and Safran Vendor Service Bulletin 42-29-006, Revision 01, dated September 27, 2017; as applicable.

(3) Group 1 airplanes have an affected part installed.

(4) Group 2 airplanes do not have an affected part installed. A Model A330 airplane on which Airbus SAS modifications 206863, 206864, and 206965 have been embodied in production is a Group 2 airplane, provided the airplane remains in that configuration.

(5) In table 1 to paragraphs (g), (h), and (i) of this AD: Green hydraulic circuit is (G), blue hydraulic circuit is (B), and yellow hydraulic circuit is (Y).

Table 1 to paragraphs (g), (h), and (i) of this AD – Affected HR part numbers, re-identified HR part numbers, and compliance times

Airplanes	Affected HR part number	Compliance time (after the effective date of this AD)	Re-identified HR part number
Model A330 (all models)	42F1005 (G)	Within 4 months	42F1008
	42F1203 (B)	Within 28 months	42F1205
	42F1304 (Y)	Within 28 months	42F1307
Model A340-200 and -300	42F1005 (G)	Within 4 months	42F1008
	42F1203 (B)	Within 28 months	42F1205
	42F1304 (Y)	Within 28 months	42F1307
Model A340-500 and -600	42F1412 (G)	Within 4 months	42F1416
	42F1512 (B)	Within 4 months	42F1516
	42F1607 (Y)	Within 4 months	42F1609

(h) Replacement

For Group 1 airplanes: At the applicable time specified in table 1 to paragraphs (g), (h), and (i) of this AD, replace each affected part in accordance with the applicable service information specified in paragraphs (h)(1) through (h)(7) of this AD.

- (1) Airbus Service Bulletin A330-29-3131, dated August 11, 2017.
- (2) Airbus Service Bulletin A330-29-3132, dated August 11, 2017.
- (3) Airbus Service Bulletin A330-29-3133, dated August 11, 2017.
- (4) Airbus Service Bulletin A340-29-4099, dated August 11, 2017.
- (5) Airbus Service Bulletin A340-29-4100, dated August 11, 2017.
- (6) Airbus Service Bulletin A340-29-4101, dated August 11, 2017.
- (7) Airbus Service Bulletin A340-29-5026, dated August 11, 2017.

(i) Part Re-Identification

For Group 1 airplanes: Concurrently with the replacement of the affected part required by paragraph (h) of this AD, re-identify the part numbers of affected HRs as specified in table 1 to paragraphs (g), (h), and (i) of this AD, in accordance with the applicable service information specified in paragraphs (h)(1) through (h)(7) of this AD.

(j) Terminating Action for AD 2017-01-08

Replacement of all affected parts on an airplane, as required by paragraph (h) of this AD, terminates all requirements of AD 2017-01-08 for that airplane.

(k) Parts Installation Prohibition

- (1) For Group 1 airplanes: After replacement of all affected parts as required by paragraph (h) of this AD, do not install any affected part.
- (2) For Group 2 airplanes: As of the effective date of this AD, do not install any affected part.

(l) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Section, Transport Standards Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the International Branch, send it to the attention of the person identified in paragraph (m)(2) of this AD. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, International Section, Transport Standards Branch, FAA; or the European Aviation Safety Agency (EASA); or Airbus SAS'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.

(m) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) EASA AD 2018-0064, dated March 23, 2018, 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-2018-0704.

(2) For more information about this AD, contact Vladimir Ulyanov, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax: 206-231-3229.

(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 Service Bulletin A330-29-3131, dated August 11, 2017.
- (ii) Airbus Service Bulletin A330-29-3132, dated August 11, 2017.
- (iii) Airbus Service Bulletin A330-29-3133, dated August 11, 2017.
- (iv) Airbus Service Bulletin A340-29-4099, dated August 11, 2017.
- (v) Airbus Service Bulletin A340-29-4100, dated August 11, 2017.

(vi) Airbus Service Bulletin A340-29-4101, dated August 11, 2017.

(vii) Airbus Service Bulletin A340-29-5026, dated August 11, 2017.

(viii) Safran Vendor Service Bulletin 42-29-005, Revision 01, dated September 26, 2017.

(ix) Safran Vendor Service Bulletin 42-29-006, Revision 01, dated September 27, 2017.

(3) For Airbus service information identified in this AD, contact Airbus SAS, Airworthiness Office–EAL, Rond Point Emile Dewoitine No: 2, 31700 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>.

(4) For Safran service information identified in this final rule, contact Safran Aero Boosters, 121 Route de Liers, 4041 Milmort (Herstal), Belgium; telephone: +32 4 278 8111; fax: +32 4 278 52 07; internet <https://www.safran-aero-boosters.com>, or <https://www.safran-group.com/company/safran-aero-boosters>.

(5) You may view this service information at the FAA, Transport Standards 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, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Des Moines, Washington, on March 22, 2019.

Michael Kaszycki,
Acting Director, System Oversight Division,
Aircraft Certification Service.



2019-06-08 Airbus SAS: Amendment 39-19606; Docket No. FAA-2018-1063; Product Identifier 2018-NM-160-AD.

(a) Effective Date

This AD is effective May 16, 2019.

(b) Affected ADs

None.

(c) Applicability

This AD applies to all Airbus SAS Model A330-223, A330-223F, A330-321, A330-322, and A330-323 airplanes, certificated in any category, all manufacturer serial numbers.

(d) Subject

Air Transport Association (ATA) of America Code 78, Engine exhaust.

(e) Reason

This AD was prompted by a report of fatigue cracking in the latch beam gussets on a certain thrust reverser (T/R). We are issuing this AD to address this condition, which, if not detected and corrected, could lead to crack propagation until part failure and potential departure of the T/R cascade during T/R operation, which could result in damage to the airplane and hazards to persons or property on the ground.

(f) Compliance

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

(g) Requirements

Except as specified in paragraph (h) of this AD: Comply with all required actions and compliance times specified in, and in accordance with, the European Aviation Safety Agency (EASA) AD 2018-0227, dated October 22, 2018 (“EASA AD 2018-0227”).

(h) Exceptions to EASA AD 2018-0227

- (1) For purposes of determining compliance with the requirements of this AD: Where EASA AD 2018-0227 refers to its effective date, this AD requires using the effective date of this AD.
- (2) The “Remarks” section of EASA AD 2018-0227 does not apply to this AD.

(i) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Section, Transport Standards Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the International Section, send it to the attention of the person identified in paragraph (j) of this AD. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain instructions from a manufacturer, the instructions must be accomplished using a method approved by the Manager, International Section, Transport Standards Branch, FAA; or EASA; or Airbus SAS's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(3) Required for Compliance (RC): For any service information referenced in EASA AD 2018-0227 that contains RC procedures and tests: Except as required by paragraph (i)(2) of this AD, RC 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.

(j) Related Information

For more information about this AD, contact Vladimir Ulyanov, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3229.

(k) Material Incorporated by Reference

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

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

(i) European Aviation Safety Agency (EASA) AD 2018-0227, dated October 22, 2018.

(ii) [Reserved]

(3) For EASA AD 2018-0227, contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 89990 6017; email ADs@easa.europa.eu; Internet www.easa.europa.eu. You may find this EASA AD on the EASA website at <https://ad.easa.europa.eu>.

(4) You may view this EASA AD at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195. EASA AD 2018-0227 may be found in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-1063.

(5) You may view this material 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 Des Moines, Washington, on March 25, 2019.
Michael Kaszycki,
Acting Director, System Oversight Division,
Aircraft Certification Service.



2019-06-09 Airbus SAS: Amendment 39-19607; Docket No. FAA-2019-0190; Product Identifier 2018-NM-177-AD.

(a) Effective Date

This AD becomes effective April 26, 2019.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Airbus SAS Model A350-941 airplanes, certificated in any category, as identified in European Aviation Safety Agency (EASA) AD 2018-0271, dated December 12, 2018 (“EASA AD 2018-0271”).

(d) Subject

Air Transport Association (ATA) of America Code 25, Equipment/furnishings.

(e) Reason

This AD was prompted by reports that baby bassinet inserts installed on airplane stowages and partitions were found loose because a self-securing fixation device (Loctite) had not been applied. We are issuing this AD to address this condition, which, if not detected and corrected, could lead to detachment of a baby bassinet, possibly resulting in injury to the infant or other airplane occupants.

(f) Compliance

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

(g) Requirements

Except as specified in paragraph (h) of this AD: Comply with all required actions and compliance times specified in, and in accordance with, EASA AD 2018-0271.

(h) Exceptions to EASA AD 2018-0271

(1) For purposes of determining compliance with the requirements of this AD: Where EASA AD 2018-0271 refers to its effective date, this AD requires using the effective date of this AD.

(2) The “Remarks” section of EASA AD 2018-0271 does not apply to this AD.

(i) No Reporting Requirement

Although the service information referenced in EASA AD 2018-0271 specifies to submit certain information to the manufacturer, this AD does not include that requirement.

(j) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Section, Transport Standards Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the International Section, send it to the attention of the person identified in paragraph (k) of this AD. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain instructions from a manufacturer, the instructions must be accomplished using a method approved by the Manager, International Section, Transport Standards Branch, FAA; or EASA; or Airbus SAS's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(3) Required for Compliance (RC): For any service information referenced in EASA AD 2018-0271 that contains RC procedures and tests: Except as required by paragraph (j)(2) of this AD, RC 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.

(k) Related Information

For more information about this AD, contact Kathleen Arrigotti, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3218.

(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.

(i) European Aviation Safety Agency (EASA) AD 2018-0271, dated December 12, 2018.

(ii) [Reserved]

(3) For EASA AD 2018-0271, contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 89990 6017; email ADs@easa.europa.eu; Internet www.easa.europa.eu. You may find this EASA AD on the EASA website at <https://ad.easa.europa.eu>.

(4) You may view this EASA AD at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195. EASA AD 2018-0271 may be found in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2019-0190.

(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 Des Moines, Washington, on March 26, 2019.
Michael Kaszycki,
Acting Director, System Oversight Division,
Aircraft Certification Service.



2019-06-12 Airbus SAS: Amendment 39-19610; Docket No. FAA-2019-0191; Product Identifier 2018-NM-161-AD.

(a) Effective Date

This AD becomes effective April 26, 2019.

(b) Affected ADs

None.

(c) Applicability

This AD applies to the airplanes identified in paragraphs (c)(1) and (c)(2) of this AD, certificated in any category, all manufacturer serial numbers.

- (1) Airbus SAS Model A330-201, -202, and -203 airplanes.
- (2) Airbus SAS Model A330-301, -302, and -303 airplanes.

(d) Subject

Air Transport Association (ATA) of America Code 71, Powerplant.

(e) Reason

This AD was prompted by reports of disbonds on the engine air inlet cowl inner barrel lower panel between the back skins and the honeycomb core of airplanes equipped with certain engines. We are issuing this AD to address such disbonds, which, in combination with an engine surge, could lead to in-flight detachment of an air inlet cowl inner barrel, possibly resulting in damage to the airplane.

(f) Compliance

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

(g) Requirements

Except as specified in paragraphs (h) and (i) of this AD: Comply with all required actions and compliance times specified in, and in accordance with, European Aviation Safety Agency (EASA) AD 2018-0228, dated October 22, 2018 (“EASA AD 2018-0228”).

(h) Exceptions to EASA AD 2018-0228

- (1) For purposes of determining compliance with the requirements of this AD: Where EASA AD 2018-0228 refers to its effective date, this AD requires using the effective date of this AD.
- (2) The “Remarks” section of EASA AD 2018-0228 does not apply to this AD.

(i) No Reporting Requirement

Although the service information referenced in EASA AD 2018-0228 specifies to submit certain information to the manufacturer, this AD does not include that requirement.

(j) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, International Section, Transport Standards Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the International Section, send it to the attention of the person identified in paragraph (k) of this AD. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain instructions from a manufacturer, the instructions must be accomplished using a method approved by the Manager, International Section, Transport Standards Branch, FAA; or EASA; or Airbus SAS's EASA DOA. If approved by the DOA, the approval must include the DOA-authorized signature.

(3) Required for Compliance (RC): For any service information referenced in EASA AD 2018-0228 that contains RC procedures and tests: Except as required by paragraph (j)(2) of this AD, RC 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.

(k) Related Information

For more information about this AD, contact Vladimir Ulyanov, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; phone and fax: 206-231-3229

(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.

(i) European Aviation Safety Agency (EASA) AD 2018-0228, dated October 22, 2018.

(ii) [Reserved]

(3) For EASA AD 2018-0228, contact EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; phone: +49 221 89990 6017; email: ADs@easa.europa.eu; Internet: www.easa.europa.eu. You may find this EASA AD on the EASA website at <https://ad.easa.europa.eu>.

(4) You may view this EASA AD at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195. EASA AD 2018-0228 may be found in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2019-0191.

(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 Des Moines, Washington, on March 26, 2019.
Michael Kaszycki,
Acting Director, System Oversight Division,
Aircraft Certification Service.



2019-07-03 Zodiac Seats France (formerly SICMA Aero Seat): Amendment 39-19614; Docket No. FAA-2017-0839; Product Identifier 2017-NE-31-AD.

(a) Effective Date

This AD is effective May 16, 2019.

(b) Affected ADs

None.

(c) Applicability

This AD applies to all Zodiac Seats France, 536-Series Cabin Attendant Seats, part number (P/N) 53600, all dash numbers, all serial numbers. These appliances are installed on, but not limited to: Avions de transport regional (ATR) 42 and ATR 72 model airplanes of U.S. registry.

(d) Subject

Joint Aircraft System Component (JASC) Code 2500, Cabin Equipment/Furnishings.

(e) Unsafe Condition

This AD was prompted by corrosion found on the seat structure or on clamps of the Zodiac Seats France 536-Series Cabin Attendant Seats. We are issuing this AD to prevent failure of these seats. The unsafe condition, if not addressed, could result in failure of the seat occupied by the cabin attendant, and possible injury to the cabin attendant.

(f) Compliance

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

(g) Required Actions

(1) Within 14 months after the first installation of the seat on an aircraft, or within 3 months after the effective date of this AD, whichever occurs later, remove the seat from the aircraft and perform a detailed visual inspection in accordance with the Accomplishment Instructions, Paragraph 2.B., of Zodiac Seats France Service Bulletin (SB) No. 536-25-002, Revision 3, dated November 2, 2016. If the date of the first installation of a seat on an airplane is unknown, use the date of manufacture of the seat (which can be found on the ID placard of the seat) to determine when the inspection must be accomplished.

(2) Within 3 months after the inspection required by paragraph (g)(1) of this AD, and, thereafter, at intervals not to exceed 3 months, perform a detailed visual inspection in accordance with the Accomplishment Instructions, Paragraphs 2.A. and 2.B., of Zodiac Seats France SB No. 536-25-002, Revision 3, dated November 2, 2016.

(3) If corrosion or other damage is found, before next flight or before (re)installation of the seat on an aircraft, as applicable, repair the seat in accordance with the Accomplishment Instructions, Paragraphs 2.B. and 2.C., of Zodiac Seats France SB No. 536-25-002, Revision 3, dated November 2, 2016.

(4) Temporarily stowing and securing a damaged attendant seat in a retracted position to prevent occupancy, in accordance with the provisions and limitations applicable Master Minimum Equipment List item, is an acceptable alternative method to defer compliance with the requirements of paragraph (g)(3) of this AD.

(h) Installation Prohibition

After the effective date of this AD, do not install on any aircraft an affected Zodiac Seats France 536-Series Cabin Attendant Seat that has accumulated more than 14 months since first installation on any aircraft, unless it has passed an inspection in accordance with the Accomplishment Instructions, Paragraph 2.B., of Zodiac Seats France SB No. 536-25-002, Revision 3, dated November 2, 2016.

(i) Optional Terminating Action

Modification and re-identification (P/N change) of a seat in accordance with the Accomplishment Instructions, paragraph 2.A., of Zodiac Seats France SB No. 536-25-004, Rev. 0, dated October 19, 2017, constitutes a terminating action for the repetitive inspections as required by this AD. Operators are not required to perform the steps in Sections A6 and A9 in paragraph 2.A. of the SB to complete this terminating action.

(j) Credit for Previous Actions

You may take credit for actions required by paragraph (g) of this AD if you performed these actions before the effective date of this AD using Zodiac Seats France SB No. 536-25-002, Revision 2, dated August 29, 2016.

(k) Alternative Methods of Compliance (AMOCs)

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

(l) Related Information

(1) For more information about this AD, contact Dorie Resnik, Aerospace Engineer, Boston ACO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone: 781-238-7693; fax: 781-238-7199; email: dorie.resnik@faa.gov.

(2) Refer to European Union Aviation Safety Agency AD 2016-0167R1, dated February 2, 2018 (corrected March 1, 2018) for more information. You may examine the EASA AD in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating it in Docket No. FAA-2017-0839.

(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 the AD specifies otherwise.

(i) Zodiac Seats France Service Bulletin (SB) No. 536-25-002, Revision 3, dated November 2, 2016.

(ii) Zodiac Seats France SB No. 536-25-004, Rev. 0, dated October 19, 2017.

(3) For Zodiac Seats France service information identified in this AD, contact Safran Seats France, 61, Rue Pierre Curie, CS20001, Plaisir Cedex, France phone: + 33 977 428 378; email: AOG.3S@safrangroup.com; website: <https://www.safran-group.com>.

(4) You may view this service information at FAA, Engine & Propeller Standards 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, call 202-741-6030, or go to: <http://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Burlington, Massachusetts, on April 2, 2018.

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