

**FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES**

**SMALL AIRPLANES, ROTORCRAFT, GLIDERS,
BALLOONS, & AIRSHIPS**

BIWEEKLY 2019-05

2/18/2019 - 3/3/2019



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

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Biweekly 2019-01

2018-26-02	R 2016-25-19	Airbus Helicopters	AS350B3; EC130B4; EC130T2 helicopters
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Biweekly 2019-02

We published no ADs for the Small AD Biweekly during this period.

Biweekly 2019-03

2019-01-02		Aspen Avionics, Inc.	Evolution Flight Display (EFD) EFD1000 Primary Flight Display, EFD1000 Multi-Function Display (MFD), EFD1000 Emergency Backup Display, or EFD500 MFD units
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Biweekly 2019-04

2019-02-02		Pacific Aerospace Ltd.	FBA-2C1, FBA-2C2, FBA-2C3, and FBA-2C4 airplanes
2019-02-05	R 2013-11-03	Viking Air Limited	CL-215-1A10, CL-215-6B11 airplanes

Biweekly 2019-05

2014-05-06 R2	R 2014-05-06 R1	Airbus Helicopters Deutschland GmbH	EC135 P1, P2, P2+, T1, T2, and T2+; MBB-BK 117 C-2 helicopters
2018-21-14		Zodiac Aerotechnics	MC10 series crew oxygen mask regulators
2018-22-11		Safran Helicopter Engines	ASTAZOU XIV B and H model engines
2019-03-02		Pacific Aerospace Limited	750XL airplanes
2019-03-05		Bell Helicopter Textron Canada Limited	429 helicopters



FAA
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AIRWORTHINESS DIRECTIVE

www.faa.gov/aircraft/safety/alerts/
www.gpoaccess.gov/fr/advanced.html

2014-05-06 R2 Airbus Helicopters Deutschland GmbH (Type Certificate Previously Held by Eurocopter Deutschland GmbH): Amendment 39-19537; Docket No. FAA-2013-0555; Product Identifier 2010-SW-047-AD.

(a) Effective Date

This AD becomes effective February 19, 2019.

(b) Affected ADs

This AD removes AD 2014-05-06 R1, Amendment 39-19529 (83 FR 64734, December 18, 2018).

(c) Applicability

This AD applies to the following Airbus Helicopters Deutschland GmbH (type certificate previously held by Eurocopter Deutschland GmbH) helicopters, certificated in any category:

(1) Model EC135 P1, P2, P2+, T1, T2, and T2+ helicopters, serial number (S/N) 0005 through 00829, with a tail rotor control lever, part number (P/N) L672M2802205 or L672M1012212; cyclic control lever, P/N L671M1005250; collective control lever assembly, P/N L671M2020108; or collective control plate, P/N L671M5040207; installed, and

(2) Model MBB-BK 117 C-2 helicopters, S/N 9004 through 9310, with a tail rotor control lever assembly, P/N B672M1007101 or B672M1807101; tail rotor control lever, P/N B672M1002202 or L672M2802205; or lateral control lever assembly, P/N B670M1008101, installed.

(d) Subject

Joint Aircraft Service Component (JASC) Code: 6710, Main Rotor Control.

(e) Related Information

For more information about this AD, contact Matt Fuller, Senior Aviation Safety Engineer, Safety Management Section, Rotorcraft Standards Branch, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone (817) 222-5110; email matthew.fuller@faa.gov.

Issued in Fort Worth, Texas, on December 20, 2018.

Lance T. Gant,
Director, Compliance & Airworthiness Division,
Aircraft Certification Service.



2018-21-14 Zodiac Aerotechnics (formerly Intertechnique): Amendment 39-19472; Docket No. FAA-2017-0505; Product Identifier 2017-NE-15-AD.

(a) Effective Date

This AD is effective March 27, 2019.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Zodiac Aerotechnics (Zodiac) MC10 series crew oxygen mask regulators fitted with an inflatable harness assembly, part number (P/N) MXH20-1 or MXH21-1.

(d) Subject

Joint Aircraft System Component (JASC) Code 3510, Crew Oxygen System.

(e) Unsafe Condition

This AD was prompted by reports that certain silicon harness inflation hoses installed on certain flight crew quick donning mask harnesses (also known as 'comfort' harness) have shown an unusually high premature rupture rate. We are issuing this AD to prevent a harness rupture during a sudden depressurization event. The unsafe condition, if not addressed, could result in hypoxia and subsequent unconsciousness of the affected flight crew member, and consequent reduced control of the aircraft.

(f) Compliance

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

(g) Required Actions

(1) Within 36 months after the effective date of this AD, determine the date of manufacturing (DMF) code of each inflatable harness assembly, P/N MXH20-1 and P/N MXH21-1, fitted to a flight crew oxygen mask regulator, having a P/N listed in Planning Information, paragraph 1.A.(1), of Zodiac Aerospace Service Bulletin (SB) MC10-35-274, Revision 02, dated June 25, 2014. A review of airplane delivery or maintenance records is acceptable to make the determination as specified in this paragraph, provided those records can be relied upon for that purpose, and the DMF of the inflatable harness assembly, P/N MXH20-1 or P/N MXH21-1, as applicable, can be conclusively identified from that review.

(2) If during the review required by paragraph (g)(1) of this AD, the DMF code of the inflatable harness assembly, P/N MXH20-1 or P/N MXH21-1, is found to be between 0850-S and 1051-S

(inclusive): Within 36 months after the effective date of this AD, replace the harness inflation hose, P/N 445186 or P/N 445952, as applicable, with a part eligible for installation, or remove the inflatable harness assembly from the mask regulator and replace it with an inflatable harness assembly eligible for installation.

(3) An oxygen mask regulator equipped with an inflatable harness assembly, P/N MXH20-1 or P/N MXH21-1, having a DMF code of November 2008 (0845-S or 08/45-S) or earlier, and those with a DMF code of January 2011 (1101-S or 11/01-S) or later, are excluded from the requirements of this AD, provided it can be demonstrated that neither the inflatable harness assembly, nor the harness inflation hose, P/N 445186 or P/N 445952, as applicable, was replaced on that mask. An oxygen mask regulator with an inflatable harness assembly, P/N MXH20-1 or P/N MXH21-1, and with an inflatable harness assembly with a metal bushing that has been marked with an "I" is also excluded from the requirements of this AD. A review of airplane delivery or maintenance records is acceptable to make the determination, provided those records can be relied upon for that purpose.

(h) Installation Prohibition

After the effective date of this AD, do not install on any airplane a flight crew oxygen mask regulator with a P/N listed in Planning Information, paragraph 1.A.(1), of Zodiac SB MC10-35-274, Revision 02, dated June 25, 2014, unless it meets the definition of a part eligible for installation in paragraph (i) of this AD.

(i) Definition

(1) After the effective date of this AD, a part eligible for installation is a crew oxygen mask regulator with:

(i) A P/N identified in Planning Information, paragraph 1.A.(1), of Zodiac Aerospace SB MC10-35-274, Revision 02, dated June 25, 2014, provided it has been determined that a P/N MXH20-1 or P/N MXH21-1 inflatable harness installed on that crew oxygen mask regulator has been inspected, and re-marked with an "I" as required by Material Information, paragraph 2.E. of Zodiac Aerospace SB MC10-35-274, Revision 02, dated June 25, 2014; or

(ii) a P/N identified in Planning Information, paragraph 1.A.(1), of Zodiac Aerospace SB MC10-35-274, Revision 02, dated June 25, 2014, provided it has been determined that an inflatable harness, P/N MXH21-31, is installed.

(2) [Reserved]

(j) Credit for Previous Actions

You may take credit for the inspection and replacement of the oxygen mask regulator harness inflation hose required by paragraphs (g)(1) and (2) of this AD, if you performed the inspection and replacement using the Accomplishment Instructions, paragraph 3, of Zodiac Aerospace SB MC10-35-274, Initial Issue, dated March 19, 2014, or Revision 01, dated April 18, 2014.

(k) Alternative Methods of Compliance (AMOCs)

(1) The Manager, FAA, Boston ACO Branch, Compliance and Airworthiness Division, 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. 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.

(l) Related Information

(1) For more information about this AD, contact Erin King, Aerospace Engineer, Boston ACO Branch, FAA, 1200 District Avenue, Burlington, MA 01803; phone 781-238-7655; fax: 781-238-7199; email: erin.king@faa.gov.

(2) Refer to European Union Aviation Safety Agency AD 2014-0142, Revision 01, dated June 11, 2014, 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 Docket No. FAA-2017-0505.

(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 Aerospace Service Bulletin MC10-35-274, Revision 02, dated June 25, 2014.

(ii) [Reserved]

(3) For service information identified in this AD, contact Zodiac Aerotechnics, 61 rue Pierre Curie BP 1, 78373 Plaisir, CEDEX, France; phone: +33 1 6486 6964; email: Christophe.besset@zodiacaeospace.com or Yann.laine@zodiacaeospace.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 February 13, 2019.

Robert J. Ganley,
Manager, Engine and Propeller Standards Branch,
Aircraft Certification Service.



2018-22-11 Safran Helicopter Engines (Type Certificate previously held by Turbomeca, S.A.):
Amendment 39-19484; Docket No. FAA-2018-0949; Product Identifier 2018-NE-20-AD.

(a) Effective Date

This AD is effective March 18, 2019.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Safran Helicopter Engines, S.A. (Safran Helicopter Engines), ASTAZOU XIV B and H model engines with the 3rd-stage turbine wheels specified in Figure 1 to paragraph (c) of this AD installed.

Figure 1 to Paragraph (c) of This AD—3rd-Stage Turbine Wheels

Part Nos.	Serial Nos.
0 265 25 706 0	AD78691AD, AD78703AD, AD93845AD, CC52860, RD39596
0 265 25 705 0	L232AD

(d) Subject

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

(e) Unsafe Condition

This AD was prompted by a report that six 3rd-stage turbine wheels were returned to service after a repair that could result in exceedance of the allowable vibration threshold during operation. We are issuing this AD to prevent failure of the 3rd-stage turbine wheel. The unsafe condition, if not addressed, could result in loss of engine power and reduced control of the helicopter.

(f) Compliance

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

(g) Required Action

(1) Perform an inspection of the 3rd-stage turbine wheel as follows:

(i) Before exceeding 400 engine cycles since the last engine overhaul, or within 50 engine start stop cycles after the effective date of this AD, whichever occurs later, inspect the rear face of each affected 3rd-stage turbine wheel in accordance with the Accomplishment Instructions, paragraphs

2.4.2 and 2.4.3, in Safran Helicopter Engines Mandatory Service Bulletin (MSB) 283 72 0813, Version A, dated February 26, 2018.

(ii) After that, repeat the inspection required by paragraph (g)(1)(i) of this AD at intervals not to exceed 400 engine cycles since the last inspection.

(iii) A one-time, non-cumulative tolerance of 50 engine cycles may be applied to the repetitive inspection interval required by paragraph (g)(1)(ii) of this AD.

(2) If a crack indication is found during any inspection required by paragraph (g)(1) of this AD, remove the engine from service and repair the 3rd-stage turbine wheel in accordance with the Accomplishment Instructions, paragraph 4.3, in Safran Helicopter Engines MSB 283 72 0813, Version A, dated February 26, 2018.

(h) Terminating Action

A repair of the 3rd-stage turbine wheel in accordance with the Accomplishment Instructions, paragraph 4.3, in Safran Helicopter Engines MSB 283 72 0813, Version A, dated February 26, 2018, constitutes terminating action for the requirements of this AD for that engine.

(i) Definition

For the purpose of this AD, calculate “non-cumulative tolerance” by adding 50 engine cycles to the inspection interval of 400 engine cycles since the last inspection. For example, you may add 50 additional engines cycles to the 400 cycles since last inspection requirement to obtain an inspection interval of 450 engine cycles. Once this non-cumulative tolerance has been applied, all repetitive inspection intervals are required within 400 engine cycles of the previous inspection.

(j) No Reporting Requirement

No reporting requirement contained within the MSB referenced in paragraphs (g)(1) and (2) of this AD are required by this AD.

(k) 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 (l)(1) of this AD. You may email your request to: ANE-AD-AMOC@faa.gov.

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

(l) Related Information

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

(2) Refer to European Union Aviation Safety Agency (EASA) AD 2018-0085, dated April 13, 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-2018-0949.

(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) Safran Helicopter Engines Mandatory Service Bulletin 283 72 0813, Version A, dated February 26, 2018.

(ii) [Reserved]

(3) For Safran Helicopter Engines service information identified in this AD, contact Safran Helicopter Engines, S.A., 40220 Tarnos, France; phone: +33 5 59 74 45 15; internet address: <https://www.safran-helicopter-engines.com/services/technical-assistance>.

(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 February 21, 2019.

Robert J. Ganley,
Manager, Engine and Propeller Standards Branch,
Aircraft Certification Service.



2019-03-02 Pacific Aerospace Limited: Amendment 39-19554; Docket No. FAA-2018-0385; Product Identifier 2018-CE-019-AD.

(a) Effective Date

This AD becomes effective March 28, 2019.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Pacific Aerospace Limited Model 750XL airplanes, all serial numbers through 215, certificated in any category.

(d) Subject

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

(e) Reason

This AD was prompted by mandatory continuing airworthiness information (MCAI) originated by an aviation authority of another country to identify and correct an unsafe condition on an aviation product. We are issuing this AD to prevent damage from the threads of the bolt on the internal bore of the cross tube hinge plate, which could result in reduced control.

(f) Actions and Compliance

Unless already done, do the following actions in paragraphs (f)(1) and (2) of this AD:

(1) Within the next 150 hours time-in-service after March 28, 2019 (the effective date of this AD) or within the next 12 months after March 28, 2019 (the effective date of this AD), whichever occurs later, inspect the elevator bellcrank pivot joint to determine the length and the part number (P/N) of the bolt installed. Do the inspection using the Inspection Instructions, steps 1 through 3, in Pacific Aerospace Service Bulletin PACSB/XL/097, Issue 1, dated March 12, 2018.

(2) If you determine bolt, P/N AN4-20, is installed during the inspection required in paragraph (f)(1) of this AD, before further flight, take all necessary corrective actions using the Accomplishment Instructions in Pacific Aerospace Service Bulletin PACSB/XL/097, Issue 1, dated March 12, 2018.

(g) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, Small Airplane Standards Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Mike Kiesov, Aerospace Engineer, FAA, Small Airplane Standards Branch, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4144; fax: (816) 329-4090; email: mike.kiesov@faa.gov. Before using any approved AMOC on any airplane to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

(2) Contacting the Manufacturer: For any requirement in this AD to obtain corrective actions from a manufacturer, the action must instead be accomplished using a method approved by the Manager, Small Airplane Standards Branch, FAA; or the Civil Aviation Authority of New Zealand (CAA).

(h) Related Information

Refer to MCAI CAA AD DCA/750XL/28, dated March 22, 2018, for related information. You may examine the MCAI on the internet at: <https://www.regulations.gov/document?D=FAA-2018-0385-0002>.

(i) Material Incorporated by Reference

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

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

(i) Pacific Aerospace Limited Service Bulletin PACSB/XL/097, Issue 1, dated March 12, 2018.

(ii) [Reserved]

(3) For Pacific Aerospace Limited service information identified in this AD, contact Pacific Aerospace Limited, Airport Road, Hamilton, Private Bag 3027, Hamilton 3240, New Zealand; phone: +64 7843 6144; fax: +64 843 6134; email: pacific@aerospace.co.nz; internet: www.aerospace.co.nz.

(4) You may view this service information at the FAA, Policy and Innovation Division, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329-4148. In addition, you can access this service information on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2018-0385.

(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 Kansas City, Missouri, on February 11, 2019.

Melvin J. Johnson,

Aircraft Certification Service, Deputy Director, Policy and Innovation Division, AIR-601.



2019-03-05 Bell Helicopter Textron Canada Limited: Amendment 39-19557; Docket No. FAA-2018-0647; Product Identifier 2017-SW-083-AD.

(a) Applicability

This AD applies to Bell Helicopter Textron Canada Limited Model 429 helicopters with a nose landing gear (NLG) assembly part number (P/N) 429-336-100-101 installed, certificated in any category.

(b) Unsafe Condition

This AD defines the unsafe condition as fatigue failure of an NLG assembly, which could result in subsequent damage to and loss of control of the helicopter.

(c) Effective Date

This AD becomes effective March 26, 2019.

(d) Compliance

You are responsible for performing each action required by this AD within the specified compliance time unless it has already been accomplished prior to that time.

(e) Required Actions

Before further flight, remove from service any NLG assembly P/N 429-336-100-101 that has reached or exceeded 4,500 hours time-in-service (TIS) or 50,000 retirement index number (RIN). Thereafter, remove from service each NLG assembly P/N 429-336-100-101 before accumulating 4,500 hours TIS or 50,000 RIN, whichever occurs first. For purposes of this AD, for every normal retraction or extension of the wheeled landing gear system, add one RIN.

(f) Alternative Methods of Compliance (AMOCs)

(1) The Manager, Safety Management Section, Rotorcraft Standards Branch, FAA, may approve AMOCs for this AD. Send your proposal to: Matt Fuller, Senior Aviation Safety Engineer, Safety Management Section, Rotorcraft Standards Branch, FAA, 10101 Hillwood Pkwy., Fort Worth, TX 76177; telephone (817) 222-5110; email 9-ASW-FTW-AMOC-Requests@faa.gov.

(2) For operations conducted under a 14 CFR part 119 operating certificate or under 14 CFR part 91, subpart K, we suggest that you notify your principal inspector, or lacking a principal inspector, the manager of the local flight standards district office or certificate holding district office, before operating any aircraft complying with this AD through an AMOC.

(g) Additional Information

(1) Bell Helicopter Alert Service Bulletin No. 429-15-24, Revision A, dated September 23, 2015, which is not incorporated by reference, contains additional information about the subject of this AD. For service information identified in this AD, contact Bell Helicopter Textron Canada Limited, 12,800 Rue de l'Avenir, Mirabel, Quebec J7J1R4; telephone (450) 437-2862 or (800) 363-8023; fax (450) 433-0272; or at <http://www.bellcustomer.com/files/>. You may review a copy of the service information at the FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy., Room 6N-321, Fort Worth, TX 76177.

(2) The subject of this AD is addressed in Transport Canada AD No. CF-2016-07, dated March 4, 2016. You may view the Transport Canada AD on the internet at <http://www.regulations.gov> in Docket No. FAA-2018-0647.

(h) Subject

Joint Aircraft Service Component (JASC) Code: 3200, Landing Gear System.

Issued in Fort Worth, Texas, on February 8, 2019.

Lance T. Gant,

Director, Compliance & Airworthiness Division, Aircraft Certification Service.