

**FEDERAL AVIATION ADMINISTRATION
AIRWORTHINESS DIRECTIVES**

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

BIWEEKLY 2020-01

12/23/2019 - 1/5/2020



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

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SMALL AIRCRAFT

AD No.	Information	Manufacturer	Applicability
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Information Key: E – Emergency; COR – Correction; R – Replaces, A – Affects

Biweekly 2020-01

2019-22-08

Leonardo S.p.A

AW169 and AW189 helicopters



2019-22-08 Leonardo S.p.A.: Amendment 39-19787; Docket No. FAA-2019-0813; Product Identifier 2019-SW-006-AD.

(a) Applicability

This AD applies to Leonardo S.p.A. Model AW169 and AW189 helicopters, certificated in any category, with a tail rotor (T/R) actuator part number (P/N) 6F6730V00331 with a serial number (S/N) up to 489 inclusive, except those marked with “SB 67-0007.”

(b) Unsafe Condition

This AD defines the unsafe condition as incorrect installation of the T/R actuator back-end input lever. This condition could result in de-bonding and slippage of one or both of the two redundant lever bearings, a reduction or loss of T/R control, and subsequent loss of control of the helicopter.

(c) Effective Date

This AD becomes effective January 7, 2020.

(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

(1) Within 30 hours time-in-service (TIS), for Model AW169 helicopters, with access panels 470AT and 470BT removed; and for Model AW189 helicopters, with access panels 496A and 495A removed, inspect the T/R actuator input lever assembly by following the Accomplishment Instructions, paragraph 3.B. through 3.C.4., of UTC Aerospace Systems Service Bulletin 67-0007, Basic Issue, dated January 17, 2019 (SB 67-0007).

(i) Report the information requested in the form at the end of SB 67-0007, along with a photo of each side of the installed T/R actuator back-end input lever, by email to: pse_aw189.mbx.aw@leonardocompany.com. Refer to Figure 4 and Figure 5 of SB 67-0007 for an example of each photo.

(ii) If the width of the bearing circular collar of the input lever is within the allowable limits of 4 0.3 mm, the input lever pin head is not on side “A” of the T/R actuator as shown in Figure 2b of SB 67-0007 (the input lever pin head is on side “B”), and the nut and cotter pin of the intermediate bolt are installed on side “A” of the T/R actuator side as shown in Figure 3 of SB 67-0007, before further flight, mark “SB 67-0007” on the input lever with permanent ink as shown in Figure 4 of SB 67-0007.

(iii) If the width of the bearing circular collar of the input lever is outside the allowable limits of 4 0.3 mm, the input lever pin head is on side “A” of the T/R actuator, or the nut and cotter pin of the

intermediate bolt are not installed on side “A” of the T/R actuator side, before further flight, use Table 1 to paragraph (e)(1)(iii) of this AD for next instruction.

Circular collar width of the input lever is within the allowable limits of 4 +/- 0.3 mm.	The input lever pin head is not on side “A” of the T/R actuator (the input lever pin head is on side “B”).	The nut and cotter pin of the intermediate bolt are installed on side “A” of the T/R actuator.	Instruction:
Yes	Yes	No	Proceed to paragraph (e)(1)(v) of this AD
No	No	Yes	Proceed to paragraph (e)(1)(v) of this AD
No	No	No	Proceed to paragraph (e)(1)(v) of this AD
Yes	No	No	Proceed to paragraph (e)(1)(iv) of this AD
Yes	No	Yes	Proceed to paragraph (e)(1)(iv) of this AD
No	Yes	Yes	Proceed to paragraph (e)(1)(iv) of this AD
No	Yes	No	Proceed to paragraph (e)(1)(iv) of this AD

Table 1 to Paragraph (e)(1)(iii)

(iv) Before further flight, inspect for correct bonding (no axial or rotational relative movement compared to the lever) of each bearing by moving the input lever along the pin axial direction.

(A) If there is no axial or rotational relative movement compared to the lever in both bearings, within 10 hours TIS after completing the inspections required by paragraph (e)(1) of this AD, remove from service the T/R actuator.

(B) If there is axial or rotational relative movement compared to the lever in one or both bearings, before further flight, remove from service the T/R actuator.

(v) Within 60 hours TIS after completing the inspections required by paragraph (e)(1) of this AD, remove from service the T/R actuator.

(2) After the effective date of this AD, do not install a T/R actuator P/N 6F6730V00331 with an S/N up to 489 inclusive, except those marked with “SB 67-0007,” on any helicopter.

(f) Special Flight Permits

Special flight permits are prohibited.

(g) Paperwork Reduction Act Burden Statement

A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a currently valid OMB Control Number. The OMB Control Number for this information collection is 2120-0056. Public reporting for this collection of information is estimated to be approximately 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. All responses to this collection of information are mandatory. Send comments regarding this burden

estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: Information Collection Clearance Officer, Federal Aviation Administration, 10101 Hillwood Parkway, Fort Worth, TX 76177-1524.

(h) 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 David Hatfield, 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, the FAA suggests 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.

(i) Additional Information

(1) Leonardo Helicopters Alert Service Bulletin (ASB) No. 169-129 and Leonardo Helicopters ASB No. 189-220, both dated January 30, 2019, which are not incorporated by reference, contain additional information about the subject of this AD. For service information identified in this AD, contact Leonardo S.p.A. Helicopters, Emanuele Bufano, Head of Airworthiness, Viale G.Agusta 520, 21017 C.Costa di Samarate (Va) Italy; telephone +39-0331-225074; fax +39-0331-229046; or at <https://www.leonardocompany.com/en/home>. 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 European Aviation Safety Agency (EASA) AD No. 2019-0019, dated January 30, 2019. You may view the EASA AD on the internet at <https://www.regulations.gov> by searching for and locating it in Docket No.FAA-2019-0813.

(j) Subject

Joint Aircraft Service Component (JASC) Code: 6400, Tail Rotor System.

(k) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference 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) UTC Aerospace Systems (Collins Aerospace) Service Bulletin No. 67-0007, Basic Issue, dated January 17, 2019.

Note 1 to paragraph (k)(2)(i): UTC Aerospace Systems (Collins Aerospace) Service Bulletin No. 67-0007, Basic Issue, dated January 17, 2019, is attached as Annex A to Leonardo Helicopters ASB No. 169-129 and Leonardo Helicopters ASB No. 189-220, both dated January 30, 2019, which are not incorporated by reference in this AD.

(ii) [Reserved]

(3) For UTC Aerospace Systems service information identified in this AD, contact Collins Aerospace (previously UTC Aerospace Systems); telephone 1-877-808-7575; fax 1-860-660-0372; email tech.solutions@hs.utc.com; or at <https://utcaerospacesystems.com/aftermarket-services/technical-support/>.

(4) You may view this service information at FAA, Office of the Regional Counsel, Southwest Region, 10101 Hillwood Pkwy, Room 6N-321, Fort Worth, TX 76177. For information on the availability of this material at the FAA, call (817) 222-5110.

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

Issued in Fort Worth, Texas, on November 20, 2019.

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