



## Notification of a Proposal to issue an Airworthiness Directive

**PAD No.:** 21-110

**Issued:** 28 July 2021

Note: This Proposed Airworthiness Directive (PAD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below.

All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation date indicated.

**Design Approval Holder's Name:**

LEONARDO S.p.A.

**Type/Model designation(s):**

AW169 helicopters

**Effective Date:** [TBD - standard: 14 days after AD issue date]

**TCDS Number(s):** EASA.R.509

**Foreign AD:** Not applicable

**Supersedure:** This AD supersedes EASA AD 2019-0252 issued on 10 October 2019.

### ATA 67 – Rotors Flight Control – Yaw Pedal Assemblies – Modification

**Manufacturer(s):**

Leonardo S.p.A. Helicopters, formerly Finmeccanica S.p.A., AgustaWestland S.p.A.

**Applicability:**

AW169 helicopters, all serial numbers (s/n).

**Definitions:**

For the purpose of this AD, the following definitions apply:

**Affected part:** Pilot yaw pedal assemblies, having Part Number (P/N) 6F6720A06831 or P/N 6F6720A06832, including those marked with retromod 6F6720P01231; and co-pilot yaw pedal assemblies, having P/N 6F6720A06931 or P/N 6F6720A06932, including those marked with retromod P/N 6F6720P01331.

**Non-affected part:** Pilot yaw pedal assemblies, having P/N 6F6720A06831 or P/N 6F6720A06832 and marked with retromod P/N 6F6720P01731, or pilot yaw pedal assembly P/N 6F6720A06833; and co-pilot yaw pedal assemblies, having P/N 6F6720A06931 or P/N 6F6720A06932 and marked with retromod P/N 6F6720P01831, or co-pilot yaw pedal assembly P/N 6F6720A06933.



**The SB:** Leonardo Service Bulletin (SB) 169-181.

**Groups:** Group 1 helicopters are those that have an affected part installed.

Group 2 helicopters are those that do not have an affected part installed. A helicopter on which Leonardo modification (mod) 6F6720P01411 has been embodied in production is Group 2, provided the helicopter remains in that configuration.

**Reason:**

An occurrence was reported of finding a broken adjustable device, part of the pilot and co-pilot yaw pedal assembly. The results of the investigations determined that a modification of the pedal assembly was required to prevent the effect of this kind of failure.

This condition, if not corrected, could possibly result in reduced yaw control of the helicopter.

To initially address this unsafe condition, Leonardo developed a modification/rework of the pilot and co-pilot pedal assembly and published SB 169-147 to provide modification instructions. Consequently, EASA issued AD 2019-0252 to require rework of the pilot and co-pilot pedal assemblies. That AD was considered an interim action.

Since that AD was issued, three additional events have been reported where the universal joint of the adjusting mechanism on the yaw pedals failed.

Prompted by these findings, Leonardo developed mod 6F6720P01411, introducing upgraded pilot and co-pilot pedal assemblies of improved design which removes the failure modes. Leonardo also issued the SB to provide in-service modification instructions.

For the reasons described above, this AD cancels the requirements of EASA AD 2019-0252, which is superseded, and requires modification and re-identification of the affected parts.

**Required Action(s) and Compliance Time(s):**

Required as indicated, unless accomplished previously:

**Modification:**

- (1) For Group 1 helicopters: Within 400 flight hours or 12 months, whichever occurs first after the effective date of this AD, modify each installed affected part, as defined in this AD, and re-identify each modified pilot and co-pilot pedal assembly in accordance with the instructions of the SB.
- (2) Replacing each installed affected part on a helicopter with a non-affected part in accordance with the instructions of the SB is an acceptable method to comply with the modification requirements of paragraph (1) of this AD for that helicopter.

**Parts Installation:**

- (3) Do not install on any helicopter an affected part, as defined in this AD, as required by paragraph (3.1) or (3.2) of this AD, as applicable.



(3.1) For Group 1 helicopters: After modification of the helicopter as required by paragraph (1) of this AD.

(3.2) For Group 2 helicopters: From the effective date of this AD.

#### Ref. Publications:

Leonardo S.p.A. SB 169-181 original issue dated 26 July 2021.

The use of later approved revisions of the above-mentioned document is acceptable for compliance with the requirements of this AD.

#### Remarks:

1. This Proposed AD will be closed for consultation on 25 August 2021.
2. Enquiries regarding this PAD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu).
3. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this PAD, and which may occur, or have occurred on a product, part or appliance not affected by this PAD, can be reported to the [EU aviation safety reporting system](#). This may include reporting on the same or similar components, other than those covered by the design to which this PAD applies, if the same unsafe condition can exist or may develop on an aircraft with those components installed. Such components may be installed under an FAA Parts Manufacturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.
4. For any question concerning the technical content of the requirements in this PAD, please contact: Leonardo S.p.A. Helicopters, E-mail: [PSE\\_AW169.MBX.AW@leonardocompany.com](mailto:PSE_AW169.MBX.AW@leonardocompany.com).

