



Airworthiness Directive

AD No.: 2020-0192

Issued: 04 September 2020

Note: This Airworthiness Directive (AD) 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.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

Leonardo S.p.A.

Type/Model designation(s):

AB412 and AB412EP helicopters

Effective Date: 11 September 2020

TCDS Number(s): EASA.R.114

Foreign AD: Not applicable

Supersedure: None

ATA 24 – Electrical Power – Cable Assembly – Inspection

Manufacturer(s):

AgustaWestland S.p.A., formerly Agusta S.p.A., Costruzioni Aeronautiche Giovanni Agusta

Applicability:

AB412 and AB412EP helicopters, all serial numbers.

Definitions:

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

The SB: Leonardo Service Bulletin (SB) 412-160.

Reason:

One occurrence has been reported of failure of both inverters in flight, leading to autopilot disconnection. Subsequent inspection identified chafing of a wire in the AC power system cable assembly, due to a protective grommet not correctly installed in the emergency bus interlock compartment.

This condition, if not detected and corrected, could lead to autopilot failure and possibly loss of other avionics systems, resulting in increased pilot workload and reduced control of the helicopter.

To address this potential unsafe condition, Leonardo issued the SB, providing instructions for inspection.



For the reason described above, this AD requires a one-time inspection and, depending on findings, accomplishment of corrective action(s).

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

Required as indicated, unless accomplished previously:

Inspection:

- (1) Within 25 flight hours or 3 months, whichever occurs first after the effective date of this AD, accomplish an inspection in accordance with the instructions of the SB.

Corrective Action(s):

- (2) If, during the inspection as required by paragraph (1) of this AD, any discrepancy, as identified in the SB, is detected, before next flight, accomplish the applicable corrective action(s) in accordance with the instructions of the SB.

Ref. Publications:

Leonardo SB 412-160 original issue dated 13 August 2020.

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

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication.
3. Enquiries regarding this AD should be referred to the EASA Programming and Continued Airworthiness Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, 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 AD 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.
5. For any question concerning the technical content of the requirements in this AD, please contact: Leonardo S.p.A. Helicopters, Customer Support & Services, Product Support Engineering & Licenses DPT, Via Giovanni Agusta 520, 21017 Cascina Costa di Samarate (VA) – Italy, Tel.: +39 0331 711429, Fax: +39 0331 915145, E-mail: absereng.AW@leonardocompany.com.

