



Emergency Airworthiness Directive

AD No.: 2024-0044-E

Issued: 15 February 2024

Note: This Emergency 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, or Annex Vb Part ML.A.301, as applicable, 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 Annex Vb Part ML.A.303, as applicable] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

ATR-GIE AVIONS DE TRANSPORT REGIONAL

Type/Model designation(s):

ATR 42 and ATR 72 aeroplanes

Effective Date: 19 February 2024

TCDS Number(s): EASA.A.084

Foreign AD: Not applicable

Supersedure: None

ATA 26 – Fire Protection – Engine Fire Extinguishing System – Inspection

Manufacturer(s):

ATR-GIE Avions de Transport Régional, formerly EADS ATR - Alenia, Aerospatiale Matra ATR - ALENIA, Aerospatiale - Alenia, Aerospatiale – Aeritalia.

Applicability:

ATR ATR 42-200, ATR 42-300, ATR 42-320, ATR 42-400 and ATR 42-500 aeroplanes, all manufacturer serial numbers (MSN).

ATR 72-101, ATR72-102, ATR 72-201, ATR 72-202, ATR 72-211, ATR 72-212 and ATR 72-212A aeroplanes, all MSN.

Definitions:

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

The AOM: ATR Airworthiness Operators Message (AOM) 2024/02.

Affected part: Two-way valve, having Part Number (P/N) 446078 and a serial number up to 4298 (inclusive), except:

- Parts which passed an inspection (no discrepancies found) in accordance with the instructions of Appendix 01 of the AOM; or



- Parts which passed an inspection (no discrepancies found) in accordance with the instructions of Appendix 02 of the AOM 'Collins working instructions'; or
- Parts which have been reworked in accordance with the instructions of Appendix 02 of the AOM 'Collins working instructions' (rotated 90° clockwise as per step A to H).

Serviceable part: Two-way valve P/N 446078, which is not an affected part.

Reason:

During scheduled maintenance an operator identified an issue on both left-hand and right-hand engine fire extinguishing systems. Further investigation revealed an incorrect marking and assembly of the two-way valves, which in consequence did not operate as intended.

This condition, if not detected and corrected, could lead to reduced performance of the engine fire extinguishing system, possibly resulting in loss of control of the aeroplane.

To address this potential unsafe condition, ATR issued the AOM to provide inspection and rework instructions for the affected parts.

For the reason described above, this AD requires a functional check (FNC) of the affected parts, and, depending on findings, accomplishment of applicable corrective action(s). This AD also prohibits installation of affected parts.

This AD is considered to be an interim action and further AD action may follow.

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

Required as indicated by this AD, unless the actions required by this AD have been already accomplished:

Functional Check:

- (1) Within 21 days after the effective date of this AD accomplish a FNC of each affected part, as defined in this AD, in accordance with the instructions of the AOM.

Corrective Action(s):

- (2) If, during the FNC as required by paragraph (1) of this AD, any discrepancy is detected on an affected part, before next flight, replace that affected part with a serviceable part in accordance with the instructions of the AOM (see Note 1 to this AD).

Note 1: An affected part might become a serviceable part by following the rework instructions of Appendix 02 of the AOM 'Collins working instructions' (rotated 90° clockwise as per step A to H).

Part Installation:

- (3) From the effective date of this AD, do not install an affected part on any aeroplane.

Reporting:

- (4) Within 30 days after the FNC as required by paragraph (1) report the inspection results (including no findings) to ATR. Use of the inspection report in accordance with the instructions of the AOM is acceptable to comply with this requirement.



Ref. Publications:

ATR AOM 2024/02 Issue 1 dated 13 February 2024.

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. The results of the safety assessment have indicated the need for immediate publication and notification, without the full consultation process.
3. Enquiries regarding this AD should be referred to the EASA Safety 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: ATR - GIE Avions de Transport Régional, Continued Airworthiness Service, Telephone: +33 (0)5 62 21 62 21, Fax: +33 (0) 5 62 21 67 18; E-mail: continued.airworthiness@atr-aircraft.com.

