



適航指令發布單

Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2020-10-018A	發布日期 Date issued	2022/3/4
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	ATR 72-212A aeroplanes, manufacturer serial numbers (MSN) 1165 to 1627 inclusive, except those on which ATR modification (mod) 10052 has been embodied in production, and except MSN 1589, 1591, 1592 and 1595.		
主旨摘要 Subject	Electrical Routing - Electrical Harness Routes 1M and 1S-1V - Modification		
<div style="text-align: center;">民航局 CAA</div> <input type="checkbox"/> 本國產品 Native product <input type="checkbox"/> 其他個案 Other	<div style="text-align: center;">設計國民航主管機構 Original Authority</div> <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> FAA <input checked="" type="checkbox"/> EASA <input type="checkbox"/> Brazil <input type="checkbox"/> Transport Canada Civil Aviation <input type="checkbox"/> DGAC </div> <div> <input type="checkbox"/> Germany LBA <input type="checkbox"/> CAA-NL <input type="checkbox"/> UK CAA <input type="checkbox"/> Japan CAB <input type="checkbox"/> CAA of Israel <input type="checkbox"/> Other _____ </div> </div>		
	設計國 AD 編號 Original AD number	2020-0227R1	
	1. 直接採用原 AD 之內容?(Is the original AD directly adopted?) <input checked="" type="checkbox"/> 是(Yes) <input type="checkbox"/> 否(No) _ a. 生效日期另訂為(Re-specify the effective date as) : _____ b. 執行時限另訂為(Re-specify the compliance time or period as) : _____ 2. 使用人是否需要將 AD 執行結果向民航局提出報告?(Do Users need to report the status of compliance to the CAA?) <input type="checkbox"/> 是(Yes) <input checked="" type="checkbox"/> 否(No)		
備註 Note	This AD revises EASA AD 2020-0227(CAA-2020-10-018) dated 19 October 2020.		
註： 1. AD 內容後附。 2. 航空器產品使用人得向民航局提出豁免、替代符合方法、執行時限之展延之申請。 3. 如有任何問題，請聯絡交通部民用航空局初始適航科。Tel：(02)2349-6330 / 6332, Fax：(02)2545-8464, e-mail： adcaa@mail.caa.gov.tw Note： 1. The AD text is enclosed. 2. Exemption, an alternative method of compliance or adjustment of the compliance time may be proposed to the CAA for approval. 3. For further information, please contact Civil Aeronautics Administration on Tel：(02)2349-6330 / 6332, Fax： (02)2545-8464, e-mail： adcaa@mail.caa.gov.tw			



Airworthiness Directive

AD No.: 2020-0227R1

Issued: 01 March 2022

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:

ATR-GIE AVIONS de TRANSPORT RÉGIONAL

Type/Model designation(s):

ATR 72 aeroplanes

Effective Date: Revision 1: 08 March 2022
Original issue: 02 November 2020

TCDS Number(s): EASA.A.084

Foreign AD: Not applicable

Revision: This AD revises EASA AD 2020-0227 dated 19 October 2020.

ATA 92 – Electrical Routing – Electrical Harness Routes 1M and 1S-1V – Modification

Manufacturer(s):

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

Applicability:

ATR 72-212A aeroplanes, manufacturer serial numbers (MSN) 1165 to 1627 inclusive, except those on which ATR modification (mod) 10052 has been embodied in production, and except MSN 1589, 1591, 1592 and 1595.

Definitions:

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

The SB: ATR Service Bulletin (SB) ATR72-92-1051.

Reason:

An occurrence has been reported of Engine Electrical Control #1 fault in flight. During subsequent trouble-shooting, it was determined that this event was caused by damage on an electrical harness bundle (route 1M), due to chafing with an air duct clamp located behind overhead bins in fuselage zone 253. Investigation results revealed that the interference was due to insufficient length between the air duct clamp and the harness bundle, leading to tension in the wire sheath.



This condition, if not corrected, may lead to wire failure (damage or short circuit) and uncontrolled fire, with potential loss of multiple systems, possibly resulting in reduced control of the aeroplane.

To address this potential unsafe condition, ATR published the SB to provide modification instructions, and EASA issued AD 2020-0227 to require modification of electrical wiring routings 1M and 1S-1V, and rotation of the de-icing pipe coupling.

Since that AD was issued, it was determined that on certain aeroplanes, included in the Applicability of that AD, ATR mod 10052, having the same technical content as the SB, was embodied in production.

For the reason described above, this AD is revised to limit the Applicability.

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

Required as indicated, unless accomplished previously:

Modification:

Within 5 000 flight hours or 24 months, whichever occurs later after 02 November 2020 [the effective date of original issue of this AD], modify the installation of the electrical harness routes 1M and 1S-1V and the de-icing pipe coupling in accordance with the instructions of the SB.

Ref. Publications:

ATR SB ATR72-92-1051 original issue dated 27 July 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. The original issue of this AD was posted on 15 September 2020 as PAD 20-141 for consultation until 13 October 2020. No comments were received during the consultation period.
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.

