



## 適航指令發布單 Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2022-10-004	發布日期 Date issued	2022/10/14
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	ATR 42-500 and ATR 72-212A aeroplanes, all manufacturer serial numbers on which ATR modification (mod) 05948 (commercially known as '-600 version' ) has been embodied in production.		
主旨摘要 Subject	Instruments - New Avionics Suite - Replacement		
<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 style="width: 45%;"> <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 style="width: 45%;"> <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	2022-0206	
	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	ATA 31. Ref. Publications: ATR SB ATR72-31-1117 original issue dated 09 July 2019, or Revision 01 dated 26 July 2019, or Revision 02 dated 27 November 2019, or Revision 03 dated 25 March 2020, or Revision 04 dated 30 July 2020. and ATR SB ATR72-31-1118 original issue dated 12 December 2019, or Revision 01 dated 12 December 2019.		
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： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a> 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： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a>			



## Airworthiness Directive

**AD No.:** 2022-0206

**Issued:** 07 October 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, 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 RÉGIONAL

### Type/Model designation(s):

ATR 42 and ATR 72 aeroplanes

**Effective Date:** 21 October 2022

**TCDS Number(s):** EASA.A.084

**Foreign AD:** Not applicable

**Supersedure:** None

## ATA 31 – Instruments – New Avionics Suite – Replacement

### Manufacturer(s):

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

### Applicability:

ATR 42-500 and ATR 72-212A aeroplanes, all manufacturer serial numbers on which ATR modification (mod) 05948 (commercially known as '-600 version') has been embodied in production.

### Definitions:

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

**The applicable SB:** ATR Service Bulletin (SB) ATR42-31-0111 Revision 02, SB ATR42-31-0112 Revision 01, SB ATR72-31-1117 Revision 04 and SB ATR72-31-1118 Revision 01, as applicable.

**Serviceable NAS:** New Avionics Suite (NAS) standard (STD) 2.2 and STD 3.1, or later approved NAS STD.

**Affected NAS:** NAS STD which is not a serviceable NAS.



**Groups:** Group 1 aeroplanes are those that have an affected NAS installed.

Group 2 aeroplanes are those that have a serviceable NAS installed. An aeroplane on which ATR mod 07970 or mod 08866 has been embodied in production is a Group 2 aeroplane, provided the aeroplane remains in that configuration and it is determined that serviceable NAS is installed.

**Reason:**

In-service experience has shown that, in case of severe icing conditions, the lateral flight guidance of the Flight Director/Auto Pilot may not limit the HI BANK turns, while the aeroplane is only protected at LO BANK.

This condition, if not corrected, could, when operating in severe icing conditions, possibly result in loss of control of the aeroplane.

To address this potential unsafe condition, ATR has developed the serviceable NAS, as defined in this AD, introducing additional safety margins to “Velocity Minimal” at HI BANK and improved operational procedures related to icing, and issued the applicable SB, as defined in this AD, providing instructions to install serviceable NAS. This incorporates the operational instructions of the OEB 36 ‘Bank Limitation in Severe Icing Conditions’.

For the reasons described above, this AD requires replacement of each affected NAS with a serviceable NAS. This AD also prohibits (re)installation of an affected NAS.

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

Required as indicated, unless accomplished previously:

**Replacement:**

- (1) For Group 1 aeroplanes: Within 18 months after the effective date of this AD, replace the affected NAS with a serviceable NAS, in accordance with the instructions of the applicable SB.

**Credit:**

- (2) Replacement of the affected NAS on an aeroplane, accomplished before the effective date of this AD in accordance with the instructions of ATR SB ATR42-31-0111 original issue, or Revision 01; or ATR SB ATR42-31-0112 original issue; or ATR SB ATR72-31-1117 original issue, or Revision 01, or Revision 02, or Revision 03; or ATR SB ATR72-31-1118 original issue, as applicable, is acceptable to comply with the requirements of paragraph (1) of this AD for that aeroplane.

**Part(s) Installation:**

- (3) Do not install an affected NAS on any aeroplane, as required by paragraph (3.1) or (3.2) of this AD, as applicable.
  - (3.1) For Group 1 aeroplanes: After modification of the aeroplane as required by paragraph (1) of this AD.
  - (3.2) For Group 2 aeroplanes: From the effective date of this AD.



**Ref. Publications:**

ATR SB ATR42-31-0111 original issue dated 09 July 2019, or Revision 01 dated 12 December 2019, or Revision 02 dated 04 July 2022.

ATR SB ATR42-31-0112 original issue dated 04 September 2019, or Revision 01 dated 12 December 2019.

ATR SB ATR72-31-1117 original issue dated 09 July 2019, or Revision 01 dated 26 July 2019, or Revision 02 dated 27 November 2019, or Revision 03 dated 25 March 2020, or Revision 04 dated 30 July 2020.

ATR SB ATR72-31-1118 original issue dated 12 December 2019, or Revision 01 dated 12 December 2019.

The use of later approved revisions of the above-mentioned documents 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. This AD was posted on 30 August 2022 as PAD 22-120 for consultation until 27 September 2022. The Comment Response Documents can be found in the [EASA Safety Publications Tool](#), in the compressed (zipped) file attached to the record for this AD.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: [ADs@easa.europa.eu](mailto: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](mailto:continued.airworthiness@atr-aircraft.com).

