

Notification of a Proposal to issue an Airworthiness Directive

PAD No.: 21-039

Issued: 09 March 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:

Costruzioni Aeronautiche TECNAM SPA

Type/Model designation(s):

P2012 aeroplanes

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

TCDS Number(s): EASA.A.637

Foreign AD: Not Applicable

Supersedure: None

ATA 27 – Flight Controls – Trim Tab Trailing Edge – Inspection

Manufacturer(s):

Costruzioni Aeronautiche TECNAM SPA (TECNAM)

Applicability:

P2012 "Traveller" aeroplanes, all manufacturer serial numbers.

Definitions:

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

The SB: TECNAM Service Bulletin (SB) 398-CS ed. 2.

Affected part: Mechanical trim actuator assembly, having Part Number 212-27-30-0410-000.

Reason:

Occurrences have been reported of vibration in the horizontal stabiliser control yoke and pedals, both sides. The subsequent investigation identified free play in the trim tab actuator and trim tab surface.

This condition, if not detected and corrected, could lead to trim tab disconnection, with consequent increase in dynamic loads and vibrations, possibly resulting in structural failure and loss of control of the aeroplane.

To address this potential unsafe condition, TECNAM issued the SB to provide inspection instructions.

For the reasons described above, this AD requires repetitive inspections of the trim tab and, depending on findings, accomplishment of applicable corrective action(s).

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

Required as indicated, unless accomplished previously:

Repetitive Inspection:

- (1) Within 100 flight hours (FH) after the effective date of this AD and, thereafter, at intervals not to exceed 100 FH, inspect the trim tab trailing edge to determine free play in accordance with the instructions of the SB.
- (2) If, during any inspection as required by paragraph (1) of this AD, the trim tab trailing edge free play is determined to be out of tolerance, as defined in the SB, before next flight, inspect the endless screw to determine linear free play in accordance with the instructions of the SB.

Corrective Action(s):

- (3) If, during any inspection as required by paragraph (2) of this AD, the endless screw linear free play is determined to exceed 0.020 inches (in), but not exceeding 0.036 in, before next flight, install compensation rings in accordance with the instructions of the SB.
- (4) If, during any inspection as required by paragraph (2) of this AD, the endless screw linear free play is determined to exceed 0.036 in, before next flight, replace the affected part in accordance with the instructions of the SB.

Part(s) Installation:

- (5) From the effective date of this AD, it is allowed to install an affected part on any aeroplane provided that, before next flight after installation, the trim tab trailing edge free play is found to be within tolerance in accordance with the instructions of the SB, and that, following installation, the affected part is inspected and, depending on findings, corrected as required by this AD.

Terminating Action:

- (6) None.

Ref. Publications:

TECNAM SB 398-CS ed. 2 original issue dated 05 August 2020.

The use of later approved revisions or editions 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 06 April 2021.
2. Enquiries regarding this PAD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: 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: Costruzioni Aeronautiche TECNAM Airworthiness Office, Telephone: +39 0823 997538, E-mail: traveller.support@tecnam.com.

