

Emergency Airworthiness Directive

AD No.: 2025-0225-E

Issued: 16 October 2025

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:

SMA AERO ENGINES GmbH

Type/Model designation(s):

SMA SR305-230 engine installation

Effective Date: 20 October 2025

TCDS Number(s): Supplemental Type Certificate (STC) 10013975, formerly EASA.A.S.00774

Foreign AD: Not applicable

Supersedure: None

ATA 71 – Powerplant – Turbocharger and Intercooler Hoses – Inspection/Replacement

Manufacturer(s):

SMA AERO ENGINES GmbH, formerly Société de Motorisations Aéronautiques (SMA), SAFRAN Aircraft Engines

Applicability:

Textron Aviation Inc. (formerly Cessna) Model 182M, 182N, 182P, 182Q, 182R, all serial numbers; and (Reims-manufactured) F182P and F182Q aeroplanes, all serial numbers; if modified in accordance with EASA STC 10013975 at Revision 15 or earlier, or (formerly) STC EASA.A.S.00774.

Definitions:

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

Affected part: Intercooler inlet/outlet hose having Part Number (P/N) SP01170459-0, P/N SP01170385-1, P/N SP01170460-0, P/N SP01170386-1, P/N 1500004183-1 or P/N 1500004182-1.

Serviceable part: Intercooler inlet hose, eligible for installation in accordance with SMA Aero Engines instructions, which is not an affected part; or an affected part which is new or which accumulated less than 500 flight hours (FH) since first installation, provided that, within 7 days

before installation, it has passed an inspection (no damages found) in accordance with the instructions of the SB.

The SB: SMA Aero Engines Service Bulletin (SB) SB-C182-71-011.

Reason:

Occurrences were reported of damaged intercooler air hoses.

This condition, if not detected and corrected, could result in the loss of the manifold pressure and subsequent loss of engine power, potentially leading to a forced landing, damage to the aeroplane and injury to occupants.

To address this potential unsafe condition, SMA Aero Engines GmbH issued the SB, as defined in this AD, providing inspection instructions and introducing a life limit for affected parts.

For the reason described above, this AD requires repetitive inspections of the affected parts and, depending on findings, replacement of the affected part, and replacement of affected parts before exceeding the life limit.

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 action(s) required by this AD have been already accomplished:

Inspection(s):

- (1) Before next flight after the effective date of this AD, and, thereafter, at intervals not exceeding 50 FH, inspect each affected part in accordance with the instructions of the SB.

Corrective Action(s):

- (2) If, during any inspection as required by paragraph (1) of this AD, any damage is detected on an affected part, before next flight, replace that affected part with a serviceable part.

Replacement:

- (3) Before an affected part accumulates 500 FH since first installation on an engine, replace that affected part with a serviceable part. The applicable STC maintenance manual supplement provides instructions which are acceptable method to comply with this requirement.

Part(s) Installation:

- (4) From the effective date of this AD, it is allowed to install an affected part on an engine, provided that it is a serviceable part, as defined in this AD.

Ref. Publications:

SMA Aero Engines GmbH SB-C182-71-011 original issue dated 13 October 2025.

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: SMA Aero Engines GmbH, Am Flugplatz, 63329 Egelsbach, Germany; Telephone: +49 (0) 6103 4002 710; E-Mail: design21j@roeder.aero.

Supersede

