



# Notification of a Proposal to issue an Airworthiness Directive

**PAD No.: 17-058**

**Issued: 09 May 2017**

Note: This Proposed Airworthiness Directive (PAD) is issued by EASA, acting in accordance with Regulation (EC) 216/2008 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 66 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:**

GE AVIATION CZECH

**Type/Model designation(s):**

M601 Engines

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

**TCDS Number(s):** EASA.E.070

**Foreign AD:** Not applicable

**Supersedure:** None

## ATA 72 – Engine – Power Turbine Disc – Replacement

### Manufacturer(s):

GE Aviation Czech s.r.o. (formerly Walter Engines a.s.)

### Applicability:

M601D, M601D-1, M601D-2, M601D-11, M601D-11NZ, M601E, M601E-11, M601E-11A, M601E-11AS, M601E-11S, M601E-21, M601F, M601FS, M601F-11, M601F-22, M601F-32, M601T and M601Z engines, all serial numbers.

These engines are known to be installed on, but not limited to, Thrush Aircraft Inc. (formerly Quality, Ayres, Rockwell) S-2R, PZL "Warszawa-Okęcie" PZL-106 (Kruk), Air Tractor (AT-300 to AT-502), Grumman AG CAT, Fletcher FU-24, Technoavia SM-92T Finist, Lancair IV P, RUAG (formerly Dornier) Do 28 and Aircraft Industries (formerly LET) L-410 aeroplanes.

### Reason:

It was identified during a recent design review that power turbine (PT) rotors with certain discs, part number (P/N) M601-3220.6 and P/N M601-3220.7, have a reduction in the declared theoretical PT rotor overspeed limit.



This condition, if not corrected, may lead to high energy debris release in case of PT rotor overspeed occurrence, possibly resulting in damage to, and/or reduced control of, the aeroplane.

To address this potential unsafe condition, GE Aviation Czech issued Alert Service Bulletins (ASB) ASB-M601E-72-50-00-0069, ASB-M601D-72-50-00-0052, ASB-M601F-72-50-00-0035, ASB-M601T-72-50-00-0028 and ASB-M601Z-72-50-00-0038 (single document, hereafter referred to as “the ASB” in this AD), providing PT disc replacement instructions.

For the reason described above, this AD requires replacement of the affected PT discs, and prohibits further installation of the affected PT discs.

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

Required as indicated, unless accomplished previously:

Note 1: For the purpose of this AD, an “affected PT disc” has P/N M601-3220.6 or P/N M601-3220.7.

Note 2: For the purpose of this AD, Group 1 engines are those that have an affected PT disc (see Note 1 of this AD) installed. Group 2 engines are those that do not have an affected PT disc installed.

#### **Modification:**

- (1) For Group 1 engines (see Note 2 of this AD): Within 5 years, or during the next engine shop visit, whichever occurs first after the effective date of this AD, modify the engine by replacing the affected PT disc (see Note 1 of this AD) with a non-affected PT disc in accordance with the instructions of the ASB.

#### **Part(s) Installation:**

- (2) Do not install on any engine an affected PT disc (see Note 1 of this AD) as required by paragraph (2.1) or (2.2) of this AD, as applicable (see Note 2 of this AD).

(2.1) For a Group 1 engine: After modification of that engine as required by paragraph (1) of this AD.

(2.2) For a Group 2 engine: From the effective date of this AD.

#### **Ref. Publications:**

GE Aviation Czech ASB-M601E-72-50-00-0069, ASB-M601D-72-50-00-0052, ASB-M601F-72-50-00-0035, ASB-M601T-72-50-00-0028, ASB-M601Z-72-50-00-0038 (single document), original issue, dated 21 February 2017.

The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.

#### **Remarks:**

1. This Proposed AD will be closed for consultation on 06 June 2017.



2. Enquiries regarding this PAD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu).
3. For any question concerning the technical content of the requirements in this PAD, please contact: GE Aviation Czech, Beranových 65, 199 02 Praha 9 – Letňany, Czech Republic  
Tel.: +420 222 538 999; E-mail: [tp.ops@ge.com](mailto:tp.ops@ge.com).

