



# Emergency Airworthiness Directive

**AD No.:** 2016-0025-E

**Issued:** 26 January 2016

Note: This Emergency Airworthiness Directive (AD) 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.

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 (EC) 216/2008, Article 14(4) exemption].

**Design Approval Holder's Name:**

GE AVIATION CZECH

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

M601 Engines

**Effective Date:** 28 January 2016

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

**Foreign AD:** Not applicable

**Supersedure:** None

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

**Manufacturer(s):**

GE Aviation Czech S.R.O. (formerly Walter Engines a.s.)

**Applicability:**

M601D, M601D-1, M602D-2, M601E, M601E-11, M601E-21, and M601Z engines, having a serial number (s/n) as listed in Table 1 of this AD.

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), RUAG (formerly Dornier) Do 28 and Aircraft Industries (formerly LET) L-410 aeroplanes.

**Reason:**

During engine shop visits or overhauls, certain power turbine (PT) discs may have been damaged in the area of the balance weights. Additional PT discs with non conforming geometry of the slot radius may have also been released to service as a result of incorrect machining of the PT disc slot.

This condition, if not corrected, could lead to a PT disc failure, with subsequent release of high-energy debris, possibly resulting in damage to, and/or reduced control of, the aeroplane.



To address this unsafe condition, GE Aviation Czech issued Alert Service Bulletin (SB) SB-2016-72-50-00-1 (hereafter referred to as “the SB”) to provide inspection instructions for the affected engines.

For the reasons described above, this AD requires inspection of the PT disc and, depending on findings, replacement with a serviceable part.

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

Required as indicated, unless accomplished previously:

- (1) Within the compliance time as specified in Table 1 of this AD, as applicable to engine model and serial number, inspect the PT disc in accordance with the instructions of the SB.

Table 1 – Affected engines and Compliance Time

Engine Model M601	Engine Serial Number	Compliance time (from the effective date of this AD)
D1	833027	30 days
E11	833244	3 months
D	842066	3 months
D1	852052	30 days
E	862003	3 months
D2	864005	14 days
E	864204	3 months
E	871001	3 months
E	871016	3 months
E	872013	30 days
E	873039	3 months
E	873041	3 months
D	874004	2 months
D	874006	2 months
E	874025	3 months
E	881012	3 months
E11	881020	3 months
E	881021	3 months
E	882035	3 months
E	882046	3 months
E	882049	3 months
E	883017	3 months
E	883025	3 months
E	883037	3 months
E	883061	3 months
E	883065	3 months



Engine Model M601	Engine Serial Number	Compliance time (from the effective date of this AD)
E	884029	3 months
E	891022	3 months
E	891033	3 months
E	891042	3 months
E	894010	3 months
D1	894019	30 days
E	894031	14 days
E	901043	3 months
E	903001	2 months
E21	904022	3 months
E	904032	3 months
E	911001	3 months
E	911031	3 months
D	912006	3 months
D	912018	2 months
E	913006	30 days
E	913009	3 months
E	914004	3 months
E	914017	3 months
E	922003	3 months
E11	922009	14 days
Z	931002	3 months
D2	932002	14 days
E	941014	3 months

- (2) If, during the inspection as required by paragraph (1) of this AD, a damage is found, or a non conforming slot radius, exceeding the acceptability criteria as defined in the applicable SB, before next flight, replace that PT disc with a serviceable part in accordance with the instructions of the SB.
- (3) From the effective date of this AD, do not install on an aeroplane an engine, having a s/n as listed in Table 1 of this AD, unless it has passed an inspection in accordance with the instructions of the SB.

#### Ref. Publications:

GE Aviation Czech SB-2016-72-50-00-1, original issue, dated 21 january 2016.

The use of later approved revisions of this 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](mailto:ADs@easa.europa.eu).
4. For any question concerning the technical content of the requirements in this AD, please contact: GE Aviation Czech , Beranových 65, 199 02 Praha 9, Letňany, Czech Republic  
Telephone: +420 222 538 111; Fax: +420 222 538 222.

Corrected

