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SB TMG 691-1002 P1, Rev. 2

SERVICE BULLETIN

PRIORITY 1 - SAFETY

Service Bulletin No. / Date: SB TMG 691-1002 P1, Revision 2 / February 05, 2015

Subject: Start Assist Relay and Mapping

Type affected: All Diamond DA40 with TAE 125-02-114 and Dual Mass Flywheel (DMF)

Models affected: DA40 D with TAE 125-02-114 Installation i.a.w. STC no. 10036328

Classification: Category P1 – SAFETY

Time of Compliance: Within the next 100 flight hours or with the next maintenance inspection, whichever occurs first

Reason: To prevent an overload torque at the gearbox shaft during engine start.

Checked

B. Metzdorf, CVE

Approved

E. Bollen, Office of Airworthiness

Replaces Service Bulletin No. / Date:
SB TMG 691-1002 P1, Revision. 1 / January 26, 2015

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Correction:**1. Install the Start Assist Relay**

- Install the start assist relay i.a.w work instruction WI-MSB D4-097 of the Diamond Aircraft Industries GmbH (DAI).
See DAI MANDATORY SERVICE BULLETIN MSB D4-097.
- Carry out step 1 to 11 acc. to chapter III "Instructions" of WI-MSB D4-097.
Use parts listed in chapter II.3 "Materials".
- Install the new engine firmware TAE-125m3.30 (D48 FADEC) resp. D4-140 (D4 FADEC) or later version plus A/C related mapping.
See TM TAE 000-0007.

2. Functional Test of the Start Assist Relay

- Carry out step 13 to 15 acc. to chapter III "Instructions" of WI-MSB D4-097.
- Perform an engine test run in accordance with OM 02-02

3. AFM update

Replace the Aircraft Flight Manual by the latest revision.

Remarks:

By attaching the start assist relay a damaging of the gearbox shaft during engine start phase is prevented. The start assist relay provides a signal for the FADEC if the starter push button is activated / released.
At a premature release (range of critical rpm of the DMF) the FADEC will cut off the fuel injection to prevent an engine kickback.

Approval:

The technical information contained in this document has been approved under the authority of EASA Design Organisation Approval No. EASA.21J.010.