

MANDATORY SERVICE BULLETIN

MSB 42-007/20

SUPERSEDES MSB 42-007/19

I TECHNICAL DETAILS

I.1 Category

Mandatory.

I.2 Airplanes affected

Type: DA 42, DA 42 M

Serial Numbers: 42.004 and subsequent
42.AC001 and subsequent
42.M001 and subsequent

I.3 Time of Compliance

At next maintenance action.

NOTE: Prior compliance with MSB 42-007 through MSB-42-007/19 does not preclude compliance with this MSB.

I.4 Subject

Software for TAE Engine, approved versions.

I.5 Reason

Summary of approved software versions for TAE Engines.

I.6 Concurrent Documents

TAE Operation & Maintenance Manual TAE 125-01 Doc. No. OM-02-01 latest effective issue.

TAE Operation & Maintenance Manual CENTURION 2.0 Doc. No. OM-02-02 latest effective issue.

I.7 Approval

The technical information or instructions contained in this document relate to the Design Change Advisories No. MÄM 42-070/b, MÄM 42-198, MÄM 42-254, MÄM 42-284, MÄM 42-304, MÄM 42-310, MÄM 42-489, MÄM 42-529, MÄM 42-593, MÄM 42-662, MÄM 42-663, MÄM 42 727, MÄM 42-764, MÄM 42-843, MÄM 42-861, MÄM 42-887, MÄM 42-907, MÄM 42-1176/a and OÄM 42-252 which have been approved under the authority of EASA Design Organization Approval ref. EASA.21J.052.

The technical content of this document has been approved under the authority of DOA ref. EASA.21J.052.

I.8 Accomplishment/Instructions

I.8.1 Applicable to TAE125-01

Compare installed software version with approved ones stated in this section of the service bulletin.

If installed software version is not approved per the list below, perform a software update to the latest approved software version listed below. Perform the update according to the procedures given in TAE Operation & Maintenance TAE 125-01 Manual Doc. No. OM-02-01 latest effective issue.

An update to a later approved software version listed below may be carried out on every aircraft. Perform the update according to the procedures given in TAE Operation & Maintenance Manual TAE 125-01 Doc. No. OM-02-01 latest effective issue.

NOTE: If several software versions are approved for one engine, it is recommended to use the latest one.

Engine Serial / Part Number	Firmware	Mapping	Remarks
P/N 125-01-(017)-()	TAE-125, m2.91 (P/N 02-7610-55101R10)	R28V291DIA (P/N 50-7610-55107R4) or R28V292DIA (P/N 50-7610-55107R5)	see TAE TM 000-0007 (always latest revision)
S/N all aircraft equipped with TAE125-01 engines			

CAUTION: Regardless of the information given in TAE TM 000-0007, only the above mentioned software (firmware + mapping) is approved for use in the DA 42.

I.8.2 Applicable to TAE125-02-99

Compare installed software version with approved ones stated in this section of the service bulletin.

If installed software version is not approved per the list below, perform an update the latest approved software version listed below. Perform the update according to the procedures given in TAE Operation & Maintenance Manual CENTURION 2.0 Doc. No. OM-02-02 latest effective issue.

An update to a later approved software version listed below may be carried out on every aircraft. Perform the update according to the procedures given in TAE Operation & Maintenance Manual CENTURION 2.0 Doc. No. OM-02-02 latest effective issue.

NOTE: If several software versions are approved for one engine, it is recommended to use the latest one.

If FADEC D4 (P/N 05-7611-E001903 or 05-7611-E001904) is not installed:

Engine Serial / Part Number	Firmware	Mapping	Remarks
P/N 125-02-99-(0003)-() S/N all aircraft equipped with TAE125-02-99 engines	TAE-125, m2.91 (P/N 02-7610-55101R10)	O28V294DA42 (P/N 52-7610-E000503)	see TAE TM 000-0007 (always latest revision)
P/N 125-02-99-(0003)-() S/N all aircraft equipped with TAE125-02-99 engines	TAE-125, m3.00 (P/N 02-7610-55101R11)	O28V300DA42 (P/N 52-7610-E000504) or O28V301DA42 (P/N 52-7610-E000505) or O28V302DA42 (P/N 52-7610-E000506)	see TAE TM 000-0007 (always latest revision)
P/N 125-02-99-(0003)-() S/N all aircraft equipped with TAE125-02-99 engines	TAE-125, m3.10 (P/N 02-7610-55101R12)	dual mass flywheel installed not applicable	CAUTION: AFM-TR-MÄM 42-764 must be incorporated into the AFM Doc. No. 7.01.05-E / Doc. No. 7.01.06-E or the AFM revision, in which this temporary revision has been incorporated must be used. see TAE TM 000-0007 (always latest revision)
		clutch installed O28C311DA42 (P/N 52-7610-E000508)	
P/N 125-02-99-(0003)-() S/N all aircraft equipped with TAE125-02-99 engines	TAE-125, m3.30 (P/N 02-7610-55101R14)	dual mass flywheel installed O28D330DA42 (P/N 52-7610-E020501) <hr/> clutch installed not applicable	CAUTION: AFM-TR-MÄM 42-764 must be incorporated into the AFM Doc. No. 7.01.05-E / Doc. No. 7.01.06-E or the AFM revision, in which this temporary revision has been incorporated must be used. see TAE TM 000-0007 (always latest revision)

If FADEC D4 (P/N 05-7611-E001903 or 05-7611-E001904) is installed:

Engine Serial / Part Number	Firmware	Mapping	Remarks
P/N 125-02-99-(0003)-() S/N all aircraft equipped with TAE125-02-99 engines	D4-v1.80 (P/N 05-7610-E001006)	dual mass flywheel installed F28D180DA42 (P/N 52-7610-E012105)	CAUTION: AFM-TR-MÄM 42-764 must be incorporated into the AFM Doc. No. 7.01.05-E / Doc. No. 7.01.06-E or the AFM revision, in which this temporary revision has been incorporated must be used. see TAE TM 000-0007 (always latest revision)
		clutch installed F28C180DA42 (P/N 52-7610-E002204)	

CAUTION: Regardless of the information given in TAE TM 000-0007, only the above mentioned software (firmware + mapping) is approved for use in the DA 42 and DA 42 M.

I.8.3 Applicable to TAE125-02-114

Compare installed software version with approved ones stated in this section of the service bulletin.

If installed software version is not approved per the list below, perform an update the latest approved software version listed below. Perform the update according to the procedures given in TAE Operation & Maintenance Manual CENTURION 2.0 Doc. No. OM-02-02 latest effective issue.

An update to a later approved software version listed below may be carried out on every aircraft. Perform the update according to the procedures given in TAE Operation & Maintenance Manual CENTURION 2.0 Doc. No. OM-02-02 latest effective issue.

NOTE: If several software versions are approved for one engine, it is recommended to use the latest one.

Engine Serial / Part Number	Firmware	Mapping	Remarks
P/N 125-02-114-(0006)-() S/N All aircraft equipped with TAE125-02-114 engines	D4-v1.80 (P/N 05-7610-E001006)	G28D180DA42 (P/N 52-7610-E012606)	see TAE TM 000-0007 (always latest revision)
P/N 125-02-114-(0006)-() S/N All aircraft equipped with TAE125-02-114 engines	D4-v1.80 (P/N 05-7610-E001006)	G28R180DA42 (P/N 52-7610-E012401)	Only for version 02 engines. see TAE TM 000-0007 (always latest revision)

CAUTION: Regardless of the information given in TAE TM 000-0007, only the above mentioned software (firmware + mapping) is approved for use in the DA 42 and DA 42 M.

I.9 Mass (Weight) and CG

n. a.

II PLANNING INFORMATION

II.1 Material & Availability

Software and concurrent documents can be obtained through Thielert Aircraft Engines.

II.2 Special Tools

n. a.

II.3 Labor effort

Appr. 15 min

II.4 Credit

n. a.

II.5 Reference Documents

n. a.

III REMARKS

1. All work must be done by a certified aircraft maintenance station or a certified aircraft maintenance mechanic.
2. Completion of all work must be recorded in the log book.
3. In case of doubt contact Diamond Aircraft Industries.
4. The content of this MSB is mandatory in accordance with EASA TCDS EASA.A.005 and EASA TCDS EASA.A.513.