

MANDATORY SERVICE BULLETIN

NO. MSB D4-044/17

SUPERSEDES MSB D4-044/16

I TECHNICAL DETAILS

I.1 Category

Mandatory.

I.2 Airplanes affected

Type: DA 40 D

Serial Numbers: 40.080, 40.084, D4.001 and subsequent
40.DS001 and subsequent

I.3 Time of Compliance

At next maintenance action.

NOTE: Prior compliance with MSB D4-044 through MSB D4-044/16 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 40-207, MÄM 40-256, MÄM 40-333, MÄM 40-336, MÄM 40-356, MÄM 40-366, MÄM 40-489, MÄM 40-529, MÄM 40-567, MÄM 40-602, MÄM 40-603, MÄM 40-644, RÄM 40-056, MÄM 40-701, MÄM 40-771, MÄM 40-756, MÄM 40-798, MÄM 40-810 and MÄM 40-852 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 an update to the latest approved software version listed below. Perform the update according to the procedures given in TAE Operation & Maintenance Manual TAE 125-01 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 02-7200-14001R4 S/N number up to: -Off-0100 (exclusive engines converted in accordance with TAE TM 125-0005)	TAE-125, m2.3 (P/N 02-7610-55-101R4)	S14V230DIA (P/N 50-7610-55-105R3)	Standard Software Version of delivered airplanes up to engine serial number -Off-0100
P/N 02-7200-14005R5 (02-7200-14005R5_AT) S/N number up to: -1ff-0100 (engine converted in accordance with TAE TM 125-0005)	TAE-125, m2.91 (P/N 02-7610-55101R10)	T14V291DIA (P/N 50-7610-55105R8) or T14V292DIA (P/N 50-7610-55105R9)	see TAE TM 000-0007 (always latest revision)
P/N 02-7200-14005R5 S/N number: -Off-0101 and subsequent	TAE-125, m2.91 (P/N 02-7610-55101R10)	T14V291DIA (P/N 50-7610-55105R8) or T14V292DIA (P/N 50-7610-55105R9)	see TAE TM 000-0007 (always latest revision)

CAUTION: Regardless of the information given in TM TAE 000-0007, only the above mentioned software (firmware + mapping) is approved for use in the DA 40 D.

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 to 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-E001904) is not installed:

Engine Serial / Part Number	Firmware	Mapping	Remarks
P/N 05-7200-K000101 S/N all aircraft equipped with TAE125-02-99 engines S/N: 02-02-*****	TAE-125, m2.91 (P/N 02-7610-55101R10)	O14V294DA40 (P/N 50-7610-E000108)	see TAE TM 000-0007 (always latest revision)
P/N 05-7200-K000101 S/N all aircraft equipped with TAE125-02-99 engines S/N: 02-02-*****	TAE-125, m3.00 (P/N 02-7610-55101R11)	O14V300DA40 (P/N 50-7610-E000109) or O14V301DA40 (P/N 50-7610-E000110) or O14V302DA40 (P/N 50-7610-E000111)	see TAE TM 000-0007 (always latest revision)
P/N 05-7200-K000101 S/N all aircraft equipped with TAE125-02-99 engines S/N: 02-02-*****	TAE-125, m3.10 (P/N 02-7610-55101R12)	dual mass flywheel installed not applicable clutch installed O14C311DA40 (P/N 50-7610-E000113) Or O14C313DA40 (P/N 50-7610-E000115)	Revision 7 or a later revision of AFM Doc. No. 6.01.05-D / Doc. No. 6.01.05-E must be used. see TAE TM 000-0007 (always latest revision)

P/N 05-7200-K000101 S/N all aircraft equipped with TAE125-02-99 engines S/N: 02-02-*****	TAE-125, m3.30 (P/N 02-7610-55101R14)	dual mass flywheel installed O14D330DA40 (P/N 50-7610-E020101) or O14D331DA40 (P/N 50-7610-E020102)	Revision 7 or a later revision of AFM Doc. No. 6.01.05-D / Doc. No. 6.01.05-E must be used. see TAE TM 000-0007 (always latest revision)
		clutch installed not applicalbe	

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

Engine Serial / Part Number	Firmware	Mapping	Remarks
P/N 05-7200-K000101 S/N all aircraft equipped with TAE125-02-99 engines S/N: 02-02-*****	TAE-125, D4-130 (P/N 05-7610-E001002)	dual mass flywheel installed not applicable	Revision 7 or a later revision of AFM Doc. No. 6.01.05-D / Doc. No. 6.01.05-E must be used. see TAE TM 000-0007 (always latest revision)
		clutch installed F14C130DA40 (P/N 50-7610-E002201) or F14C132DA40 (P/N 50-7610-E002202)	
P/N 05-7200-K000101 S/N all aircraft equipped with TAE125-02-99 engines S/N: 02-02-*****	TAE-125, D4-140 (P/N 05-7610-E001003)	dual mass flywheel installed F14D140DA40 (P/N 50-7610-E012101) or F14D142DA40 (P/N 50-7610-E012102)	Revision 7 or a later revision of AFM Doc. No. 6.01.05-D / Doc. No. 6.01.05-E must be used. see TAE TM 000-0007 (always latest revision)
		clutch installed not applicable	

CAUTION: Regardless of the information given in TM TAE 000-0007, only the above mentioned software (firmware + mapping) is approved for use in the DA 40 D.

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 the 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 to EASA TCDS A.022.