

MANDATORY SERVICE BULLETIN NO. MSB D4-044 REV. 18
SUPERSEDES MSB D4-044 REV. 17

I TECHNICAL DETAILS

I.1 Category

Mandatory.

I.2 Airplanes Affected

Model: DA 40 D
S/N: 40.080, 40.084, D4.001 and subsequent
40.DS001 and subsequent

I.3 Date of Effectivity

09 January 2025

I.4 Time of Compliance

At next maintenance action.

NOTE: Prior compliance with MSB D4-044 through MSB D4-044/17 does not preclude compliance with this MSB.

I.5 Subject

Software for TAE Engine, approved versions.

I.6 Reason

Summary of approved software versions for TAE engines.

I.7 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.8 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, MÄM 40-852 and MÄM 40-1155.

The technical content of this document is approved as part of the type design.

I.9 Accomplishment/Instructions

See WI-MSB D4-044, latest effective issue.

I.10 Mass (Weight) and CG

The change in mass and C.G. is negligible.

II PLANNING INFORMATION

II.1 Material and Availability

See WI-MSB D4-044, latest effective issue.

II.2 Special Tools

None.

II.3 Labour Effort

Approximately 15 minutes will be required to accomplish this service bulletin.

This estimate is for direct labour performed by a technician, and it does not include setup, planning, familiarization, cure time, part fabrication, or tool acquisition.

II.4 Credit

None.

II.5 Reference Documents

DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01, latest effective issue.

III REMARKS

1. All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
2. All work, in particular that which is not especially described in this service bulletin, must be done in accordance with the referenced Maintenance Manual.
3. Completion of all work must be recorded in the logbook.
4. In case of doubt, contact Diamond Aircraft Industries Inc.



**EXECUTION REPORT TO
SERVICE BULLETIN
MSB D4-044 REV. 18**

AIRPLANE DATA

Airplane serial number _____

Airplane registration _____

Airplane operator _____

Hours of operation of airplane (TSN) _____

Typical operation of airplane private, club, training, other: _____

MAINTENANCE DATA

Date of maintenance _____

Maintenance carried out by _____

During scheduled inspection? Yes No

Name _____ Signature _____ Date _____

Please submit the Execution Report through the Diamond Partner Portal at
<https://partners.diamondaircraft.com/>

WORK INSTRUCTION WI-MSB D4-044 REV. 18
SUPERSEDES MSB D4-044 REV. 17

I GENERAL INFORMATION

I.1 Subject

Software for TAE Engine, approved versions.

I.2 Reference Documents

DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01, latest effective issue.

I.3 Remarks

1. All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
2. All work, in particular that which is not especially described in this service bulletin, must be done in accordance with the referenced Maintenance Manual.
3. Completion of all work must be recorded in the logbook.
4. In case of doubt, contact Diamond Aircraft Industries Inc.

II DRAWINGS, SPECIAL TOOLS & MATERIALS

II.1 Drawings

None.

II.2 Special Tools

None.

II.3 Material

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

III INSTRUCTIONS

III.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: -0ff-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 -0ff-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: -0ff-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.

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III.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 or 05-7611-E001906) 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)

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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, m3.30 (P/N: 02-7610-55101R14)	dual mass flywheel installed O14D330DA40 (P/N: 50-7610-E020101) or O14D331DA40 (P/N: 50-7610-E020102) clutch 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)

If FADEC D4 (P/N: 05-7611-E001904 or 05-7611-E001906) 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 clutch installed F14C130DA40 (P/N: 50-7610-E002201) or F14C132DA40 (P/N: 50-7610-E002202)	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 OR P/N: 05-7200-K000102 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) clutch 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)

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.

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To obtain satisfactory results, procedures specified in this service bulletin must be accomplished in accordance with accepted methods and current government regulations. Diamond Aircraft cannot be responsible for the quality of work performed in accomplishing the requirements of this service bulletin. Diamond Aircraft reserves the right to void continued warranty coverage in the area affected by this service bulletin if it is not incorporated.

If you no longer own the aircraft to which this service bulletin applies, please forward it to the current owner, and send the name of the current owner to Diamond Aircraft at the address below.

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