

OPTIONAL SERVICE BULLETIN

OSB 42-081/2

Supersedes OSB 42-081/1

I TECHNICAL DETAILS

I.1 Category

Optional.

I.2 Airplanes affected

Type: DA 42 M

Serial numbers: 42.M001 and subsequent
DA 42 aircraft converted to DA 42 M via OSB 42-056

I.3 Date of effectivity

17-Mar-2010

I.4 Time of Compliance

At owner's discretion.

I.5 Subject

Conversion of DA 42 M aircraft to variant DA 42 M-NG

I.6 Reason

Diamond Aircraft Industries has developed the DA 42 M-NG (a new variant of the DA 42 using the Austro Engine AE 300 (E4) engine) featuring improved performance and increased payload including the mission capabilities of the DA 42 M. To give the operators of DA 42 M aircraft the possibility to take advantage of the improved DA 42 M-NG, this Service Bulletin provides information to convert the DA 42 M to a DA 42 M-NG. Optionally the installation of the GFC 700 autopilot can be included when performing the conversion.

Note: Only the conversion of the basic aircraft is covered by this service bulletin. For Approval of installed mission equipment on a DA 42 M-NG the approval holder must be contacted.

I.7 Concurrent Documents

None.

I.8 Approval

The technical information or instructions contained in this document relate to the Design Change Advisories No. VÄM 42-004, VÄM 42-005, VÄM 42-006 (restricted TC only), MÄM 42-313, MÄM 42-316 through MÄM 42-318, MÄM 42-322, MÄM 42-325, MÄM 42-356, MÄM 42-366, MÄM 42-403, MÄM 42-415, MÄM 42-758, OÄM 42-171 and OÄM 42-176, which have been approved by EASA or under the authority of DOA ref. EASA.21J.052.

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

I.9 Accomplishments / Instructions

Comply with Work Instruction WI-OSB 42-081, Rev. 1 or later.

NOTE:

Due to the number of tools and required facilities conversions can at first only be carried out at the Diamond Aircraft Industries facilities in Wiener Neustadt, Austria. This is considered as a complex maintenance task acc. to regulation (EC) 2042/2003 Annex VII 2(d).

I.10 Mass (Weight) and CG

New weighing in accordance with the AMM is required.

II PLANNING INFORMATION

II.1 Material and Availability

See WI-OSB 42-081 latest revision.

II.2 Special Tools

See WI-OSB 42-081 latest revision.

II.3 Labour Effort

Approx. 250 hours.
Additional 150 hours for optional installation of GFC700 Autopilot.

II.4 Credit

None.

II.5 Reference Documents

WI-OSB 42-081, latest effective issue.

DA 42 NG Airplane Maintenance Manual Doc. No. 7.02.15, latest effective issue.

III REMARKS

- a) Due to the number of tools and required facilities conversions will only be carried out at the Diamond Aircraft Industries facilities in Wiener Neustadt, Austria. This is considered as a complex maintenance task acc. to regulation (EC) 2042/2003 Annex VII 2(d).
- b) This Service Bulletin only covers the modification of already installed DAI approved optional equipment. Retrofit installation of optional equipment requires an additional Service Bulletin, approved design data or STC. For installation and approval of mission equipment the approval holder must be contacted.
- c) All works, particular those that are not especially described in this work instruction, must be carried out in accordance with the referenced maintenance manual.
- d) Accomplishment of the measures must be confirmed in the log book.
- e) This issue of the Service Bulletin is in compliance with EASA Airworthiness Directive No. 2013-0224.
- f) In case of doubt, contact Diamond Aircraft Industries GmbH.

**APPLICATION FOR A NEW TYPE PLATE
OSB 42-081/1**

AIRPLANE DATA

Airplane Serial Number: _____

TC Number : EASA.A.005 O EASA.A.513 O

Airplane Registration: _____

Airplane Operator: _____

Hours of operation of airplane: _____

No. of landings: _____

Hours of operation-engine LH _____

RH _____

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

Date, Name, Sign

Please send the completed form together with the old type plate by registered mail to

Diamond Aircraft Industries GmbH
Office of Airworthiness
N. A. Otto-Strasse 5
2700 Wiener Neustadt, Austria