
OPTIONAL SERVICE BULLETIN NO. OSB 40NG-082 REV. 0

I TECHNICAL DETAILS

I.1 Category

Optional.

I.2 Airplanes Affected

Model: DA 40 NG
S/N: 40.N629 and prior.
40.NC240 and prior.
40.NF105 and prior.

I.3 Date of Effectivity

06 July 2023.

I.4 Time of Compliance

At owner's discretion.

I.5 Subject

Installation of Alternate Electric Fuel Pump.
ATA code: 28-00

I.6 Reason

Due to the obsolescence of the existing fuel pump 0580054001, Diamond Aircraft has approved the fuel pump D64-9028-11-01 as an alternate to the existing fuel pump. This Service Bulletin describes the replacement of the existing fuel pump assembly with the new fuel pump assembly D44-2823-51-00_01.

I.7 Concurrent Documents

None.

I.8 Approval

The technical information and instructions contained in this document relate to Design Change Advisory MÄM 40-1119, which has been approved as part of the type design.

I.9 Accomplishment/Instructions

See WI-OSB 40NG-082, latest effective issue.

I.10 Mass (Weight) and CG

The change in mass and CG is negligible.

II PLANNING INFORMATION

II.1 Material and Availability

See WI-OSB 40NG-082, latest effective issue.

II.2 Special Tools

None.

II.3 Labour Effort

Approximately 2 hours 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 Airplane Flight Manual Supplement O09, Operation With D64-9028-11-01 Fuel Pumps.
DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01, latest effective issue.

III REMARKS

1. All work must be done by the appropriate authorized personnel.
2. All work, in particular 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
OSB 40NG-082 REV. 0**

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 e-mail the completed form to Techpubs@diamondaircraft.com.

WORK INSTRUCTION WI-OSB 40NG-082 REV. 0

I GENERAL INFORMATION

I.1 Subject

Installation of Alternate Electric Fuel Pump.

ATA code: 28-00

I.2 Reference Documents

DA 40 Airplane Flight Manual Supplement O09, Operation With D64-9028-11-01 Fuel Pumps.
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 which is not especially described in this work instruction, must be done in accordance with the referenced maintenance manual.
3. 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

Item	Quantity	Part Number	Description
1	1	D44-2823-51-00_01	Fuel Pump Assembly
2	2	D64-2811-00-51	Fuel Pump Bracket
3	4	LN9025-0405L	Washer
4	4	LN9037-04020	Screw, hex head reduced shaft
5	2	LN9025-0615L	Washer
6	2	LN9037-06024	Screw, hex head reduced shaft

III INSTRUCTIONS

WARNING: DO NOT GET FUEL ON YOU. FUEL CAN CAUSE SKIN DISEASE. DO NOT ALLOW FIRE OR SPARKS NEAR FUEL. FUEL BURNS AND BURNING FUEL CAN CAUSE INJURY TO PEOPLE AND DAMAGE TO EQUIPMENT.

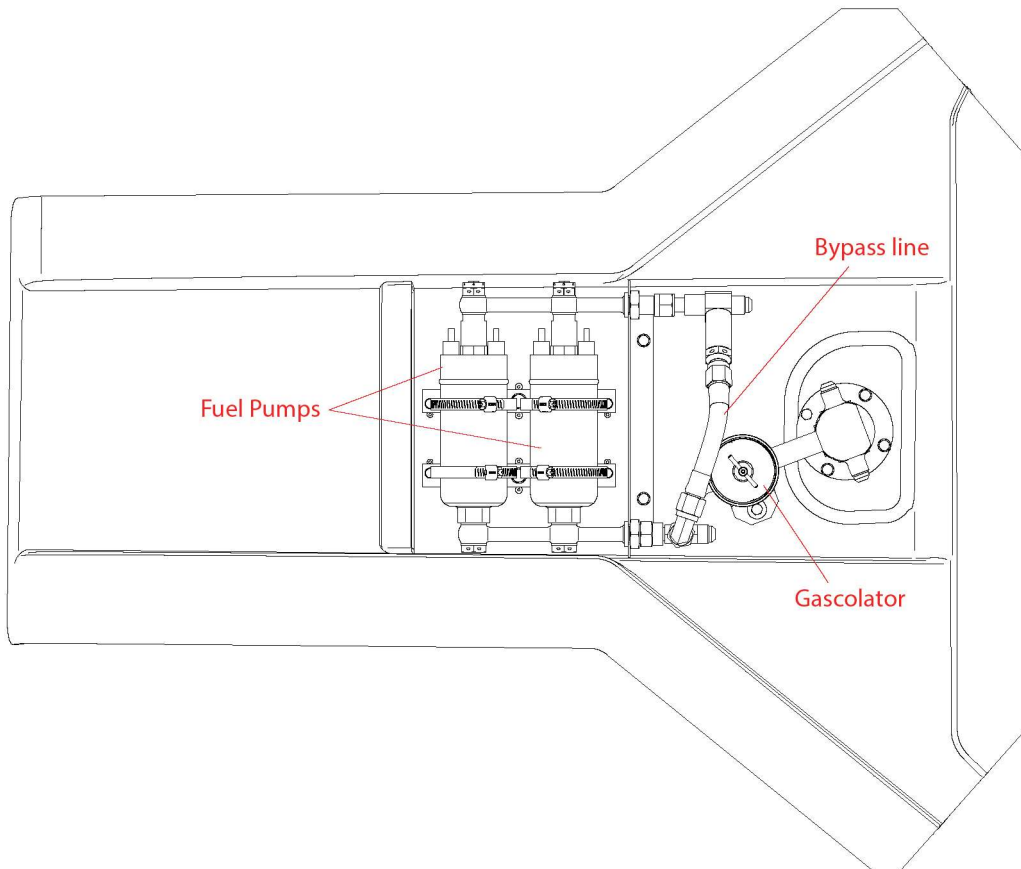


Figure 1. Fuel pumps overview.

1. Incorporate AMM-TR-MÄM 40-1119 into the Airplane Maintenance Manual or use an AMM revision in which AMM-TR-MÄM 40-1119 has been incorporated.
2. Incorporate AFM-TR-MÄM 40-1119 into the Airplane Flight Manual or use an AFM revision in which AFM-TR-MÄM 40-1119 has been incorporated.
3. Remove the existing fuel pump assembly D44-2823-51-00. Refer to AMM Section 28-20.

NOTE: Use a suitable container to catch spilt fluid and put caps on the connections.

4. Remove the existing mounting brackets with their screws and washers.

5. Install the new mounting brackets (item 2) using screws (items 4 and 6) and washers (items 3 and 5). Refer to Figure 2 for installation and orientation of the brackets (item 2).

NOTE: Reuse existing bonding wires if they are serviceable.

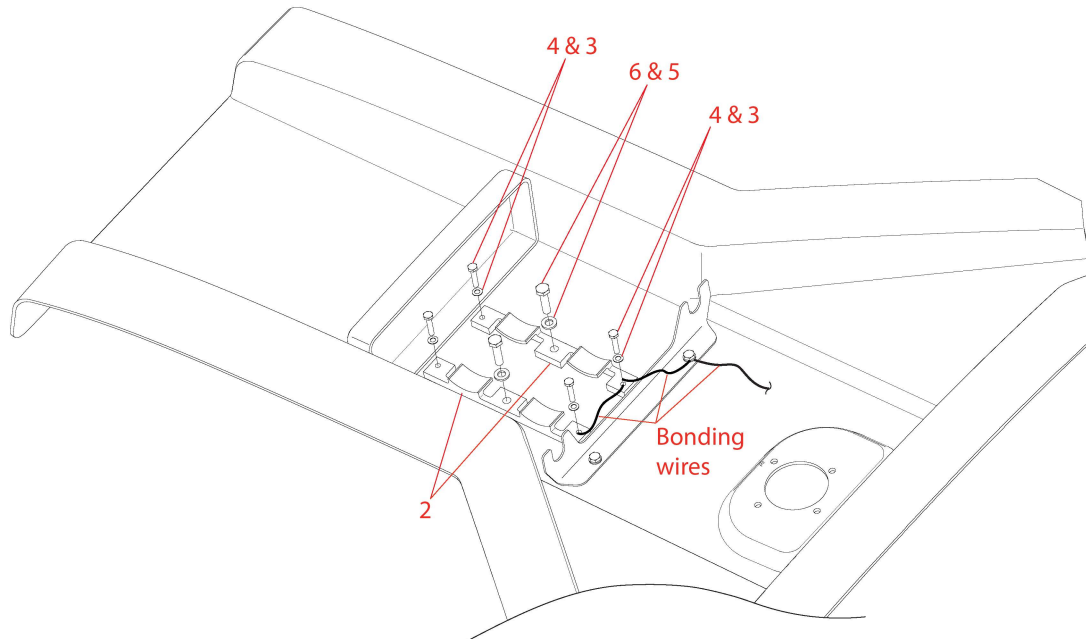


Figure 2. Mounting bracket installation. (shown inverted for clarity)

6. Install the new fuel pump assembly (item 1). Refer to AMM Section 28-20.

NOTE: Torque the worm drive clamps that hold the fuel pumps to the mounting brackets to 3 - 3.5 Nm (2.2 - 2.6 lbf.ft.).

7. Clean working areas, and check for foreign objects.
8. Do an engine ground run. Refer to AMM Section 71-00.
9. Inspect the airplane for fuel leakage.
10. Install the access panel under the fuselage around the gascolator drain valve. Refer to AMM Section 52-40.
11. Test all systems in working areas for proper function.
12. Add Aircraft Flight Manual Supplement O09, Operation With D64-9028-11-01 Fuel Pumps.
13. Make all necessary entries in the airplane logs.
14. Fill in the execution report, and submit it to Techpubs@diamondaircraft.com.

Diamond Aircraft Industries
WORK INSTRUCTION
Model DA 40 NG



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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