OPTIONAL SERVICE BULLETIN NO. OSB 62-048 REV. 0

I TECHNICAL DETAILS

I.1 Category

Optional.

I.2 Airplanes Affected

Model: DA 62

S/N: 62.269 and prior.
62.C059 and prior.

I.3 Date of Effectivity

11 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 obsolesce 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 pumps with the new fuel pumps.

I.7 Concurrent Documents

None.

I.8 Approval

The technical information and instructions contained in this document relate to Design Change Advisory MÄM 62-1083, which has been approved as part of the type design.

Note: This Service Bulletin allows for installation of the new fuel pumps on one side only (LH or RH) as well as both sides.

I.9 Accomplishment/Instructions

See WI-OSB 62-048, latest effective issue.

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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 62-048, latest effective issue.

II.2 Special Tools

None.

II.3 Labour Effort

Approximately 3 hours per engine 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 62 Airplane Flight Manual Supplement O09, Operation With D64-9028-11-01 Fuel Pumps.
DA 62 Series Airplane Maintenance Manual, Doc. No. 7.02.25, 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.

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EXECUTION REPORT TO SERVICE BULLETIN OSB 62-048 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.

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WORK INSTRUCTION WI-OSB 62-048 REV. 0

I GENERAL INFORMATION

I.1 Subject

Installation of Alternate Electric Fuel Pump.

ATA code: 28-00

I.2 Reference Documents

DA 62 Airplane Flight Manual Supplement O09, Operation With D64-9028-11-01 Fuel Pumps.
DA 62 Series Airplane Maintenance Manual, Doc. No. 7.02.25, 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

NOTE: For installation of the new fuel pumps on both engines, use two times the quantity listed in the following table:

NOTE: If the Fuel filter assemblies (item 3) are in serviceable condition, their replacement is optional.

Item	Quantity	Part Number	Description
1	2	D64-9028-11-01	Electrical fuel pump
2	2	D64-7310-00-32	Hollow bolt D-08
3	2	D64-2810-00-03_1	Fuel filter assembly
4	1	D64-2811-00-01	Fuel pump lower plate LH

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Item	Quantity	Part Number	Description
5	2	D64-2811-00-50	Nut, plug, drilled
6	1	D64-7311-00-01_1	Fuel pump upper plate LH
7	2	6WLNMSS	Locknut
8	6	DIN7603-A12x18-AL	Sealing ring, flat
9	4	DIN7603-A14x20-AL	Sealing ring, flat
10	2	LN9424-1.4314.9-0,8	Lock wire
10a	ALT	MS20995C032	Lock wire
11	2	1 583 386 514	Check valve
12	4	TORRO_50-70_9_W1	Worm drive clamp
13	2	DIN7603-A16x20-AL	Sealing ring, flat
13a	ALT	DIN7603-C14x20-CU	Sealing ring
14	2	D64-2811-00-51	Fuel pump bracket
15	4	LN9037-04 020	Screw, hexagon
16	4	DIN 125A-4.3-A2	Washer
17	2	LN 9037-06 024	Screw, hexagon
18	2	DIN 125A-6,4-A2	Washer

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.

WARNING: DO NOT BREATH FUEL VAPOR. FUEL VAPOR CAN MAKE YOU ILL.

1. Incorporate AMM-TR-MÄM 62-1083 into the Airplane Maintenance Manual or use an AMM revision in which AMM-TR-MÄM 62-1083 has been incorporated.
2. Incorporate AFM-TR-MÄM 62-1083 into the Airplane Flight Manual or use an AFM revision in which AFM-TR-MÄM 62-1083 has been incorporated.
3. Remove the existing fuel pumps. Refer to AMM Section 28-20.

NOTE: Keep the bypass valve, the bypass fuel line, the T-fitting and the solid bridges to reuse on step 6.

4. Remove the existing fuel pump brackets with their screws and washers.
5. Install the new fuel pump brackets (item 14) using screws (items 15 and 17) and washers (items 16 and 18). Refer to Figure 1 for installation and orientation of the brackets (item 2).

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6. Install the new electrical fuel pump (item 1) as follows:
   Refer to Figure 1.

   A. If the existing pre-filters (item 3) are in serviceable condition and being reused, clean them according to AMM Section 28-20.

   B. Install the sealing rings (item 9) and (item 13 or 13a), the two pre-filters (item 3), the solid bridge (reuse) and the hollow bolts (item 2) at the bottom of the fuel pump assembly.
   Hollow bolts torque: 18 ± 2 Nm (13.3 ± 1.5 lbf.ft.).
   Pre-filter torque: 30 - 35 Nm (22.1 - 25.8 lbf.ft.). (Hold by pump hexagon, not by pump body!)

   C. Install the sealing ring (item 8), the two check valves (item 11), the solid bridge (reuse), and the two plug nuts (item 5).
   Check valve torque: 18 ± 2 Nm (13.3 ± 1.5 lbf.ft.).
   Plug nuts torque: 18 ± 2 Nm (13.3 ± 1.5 lbf.ft.).

   D. Secure plug nuts (item 5) and hollow bolts (item 2) with safety wire (item 10 or 10a).

   E. Install the T-fitting, the bypass valve and the bypass fuel line.

   F. Put the fuel pumps (item 1) on the fuel pump brackets (item 14) and position the worm drive clamps on the fuel pump bracket.
   Worm drive clamps torque: 3 - 3.5 Nm (2.2 - 2.6 lbf.ft.).

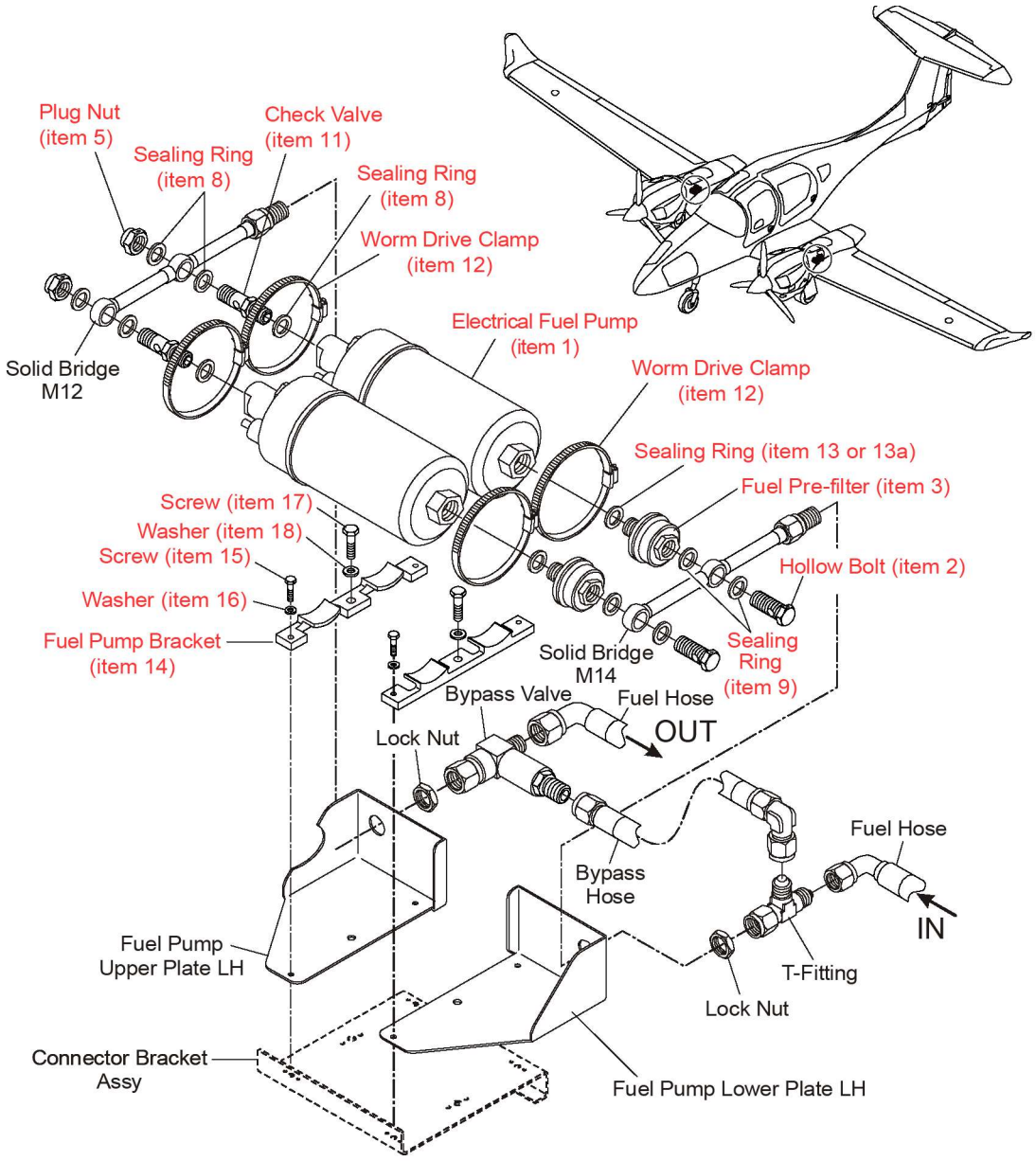
   G. Connect the electric wires to the fuel pumps.
   Negative terminal nut torque: 1.6 - 2 Nm (1.2 - 1.5 lbf.ft.).
   Positive terminal nut torque: 1.2 - 1.6 Nm (0.9 - 1.2 lbf.ft.).

   H. Connect the fuel hoses to the bypass valve and the T-fitting.

7. Do a test for leaks of the filter assembly:

   - Make sure that there is fuel in the related fuel tank.
   - Reset the circuit breakers FUEL PUMP A and FUEL PUMP B for the related engine.
   - Set the FUEL SELECTOR lever to the related tank.
   - Examine the filter assembly for leaks while both low pressure fuel pumps are running.

8. Set the related FUEL SELECTOR lever to SHUT-OFF.
9. Clean working areas, and check for foreign objects.
10. Test all systems in working areas for proper function.
11. Install the nacelle inspection panel on the lower outboard side of the related engine.
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.



NOTE: Items to be replaced are highlighted in red colour.

Figure 1. Fuel pump installation

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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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