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**OPTIONAL SERVICE BULLETIN NO. DA20-24-05 REV. 0**

**I TECHNICAL DETAILS**

**I.1 Category**

Optional.

**I.2 Airplanes Affected**

Type: DA20-A1

S/N: All DA20-A1 aircraft.

**I.3 Date of Effectivity**

25 August 2025

**I.4 Time of Compliance**

At owner's discretion.

**I.5 Subject**

Replacement of the aircraft battery.

ATA code: 24-31

**I.6 Reason**

This service bulletin introduces a new airplane battery due to the obsolescence of the previous one.

**I.7 Concurrent Documents**

None.

**I.8 Approval**

The technical information and instructions contained in this document relate to Design Change Advisory No. MÄM 22-0030.

Engineering data referenced or contained in this service bulletin is approved as part of the type design.

**I.9 Accomplishment/Instructions**

1. Remove the upper engine cowling. Refer to AMM Section 71-10.

**CAUTION: WHEN DISCONNECTING THE BATTERY, ALWAYS DISCONNECT THE NEGATIVE TERMINAL FIRST.**

2. Remove the aircraft battery. Refer to AMM Section 24-31.
3. Remove and discard the battery vent line.

NOTE: The new battery does not require venting.

4. Disconnect the battery cables from the electrical shelf.
5. Remove the cable clamp from the firewall.
6. Remove the battery cables and the cable clamp from the aircraft.

**CAUTION: 2 AWG WIRING IS REQUIRED TO BE INSTALLED WITH THE POWER SONIC BATTERY. OTHERWISE, DAMAGE MAY OCCUR IN THE EVENT OF A SHORT CIRCUIT.**

7. Install the new battery cables (items 3 and 4) to the electrical shelf. Refer to Figures 1 and 2.

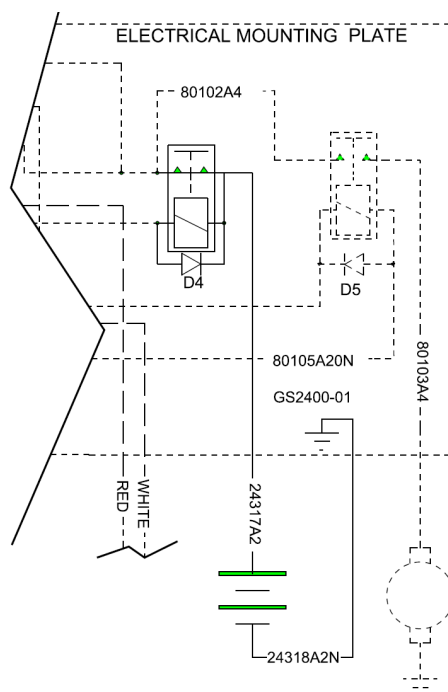


Figure 1. Schematic of battery cables

8. Install the bolt (item 6), washers (item 8), and nut (item 7) which attach the clamps (item 5) with the battery cables to the firewall.

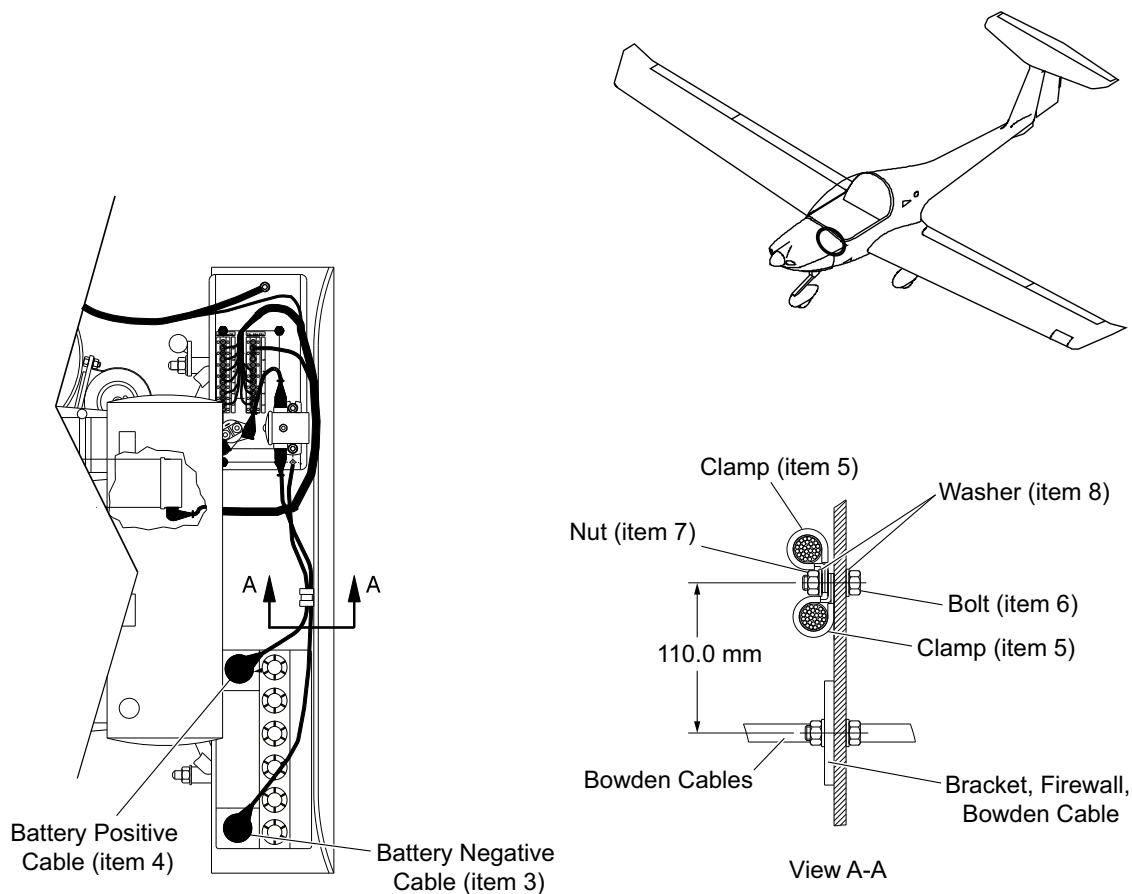


Figure 2. Battery cables installation

9. Install the new battery (item 1) using the existing strap with the new retaining bolt (item 2). Refer to Figure 3.

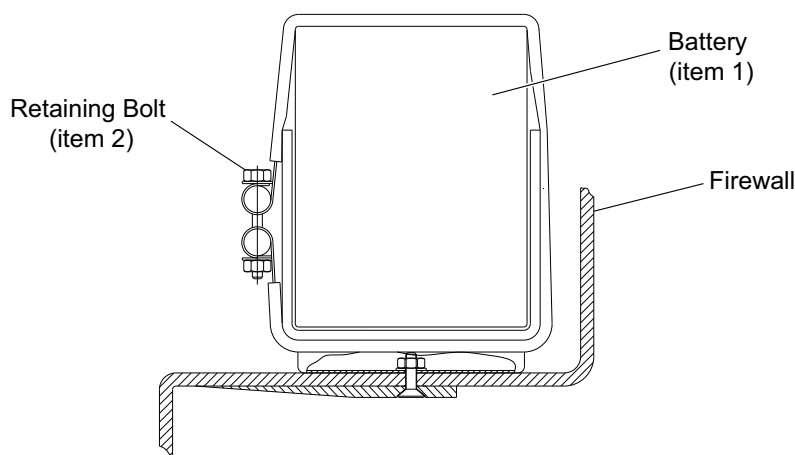


Figure 3. Battery installation (looking inboard)

10. Make sure that the insulating boots are installed over each end of the battery cables.

**CAUTION: WHEN CONNECTING THE BATTERY, ALWAYS CONNECT THE POSITIVE TERMINAL FIRST.**

11. Connect the battery positive cable (item 4) to the positive battery terminal.
12. Connect the battery negative cable (item 3) to the negative battery terminal.
13. Apply electrical insulating compound (DC4) over fastened battery terminals.
14. Measure the battery voltage. If the battery voltage is less than 12.6 V, charge the battery according to OEM's instructions.
15. Install the upper engine cowling. Refer to AMM Section 71-10.
16. Start engine (see Flight Manual DA20-A1).
17. Check the battery operation.
18. Make all necessary entries in the logbooks.
19. Submit the Execution Report through the Diamond Partner Portal at:  
<https://partners.diamondaircraft.com/>

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Model DA20-A1



**I.10 Mass (Weight) and CG**

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

**II PLANNING INFORMATION**

**II.1 Material and Availability**

Item	Quantity	Part Number	Description
1	1	PIX50LBS-FS	Battery
2	1	AN4-13A	Retaining bolt
3	1	20-2401-21-00SB	Battery negative cable
4	1	20-2401-20-00SB	Battery positive cable
5	2	MS21919WDG6	Clamp
6	1	AN3-6A	Bolt
7	1	MS21044N3	Nut
8	2	NAS1149C0363R	Washer

The following consumable is required.

Quantity	Part Number	Description
As required	DC 4	Electrical insulating compound (Dow Corning)

**II.2 Special Tools**

None.

**II.3 Labour Effort**

Approximately 2.5 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.

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**II.5 Reference Documents**

DA20-A1 Aircraft Maintenance Manual (AMM), Document # DA201-A1.

**III REMARKS**

1. All work must be done by a certified aircraft service station or a certified aircraft maintenance mechanic.
2. All work, particularly 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.

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.

Diamond Aircraft Industries Inc.  
1560 Crumlin Sideroad, London, Ontario, Canada  
N5V 1S2

Customer Support:  
Phone: (519) 457-4041  
Portal: [partners.diamondaircraft.com](https://partners.diamondaircraft.com)

**EXECUTION REPORT TO  
SERVICE BULLETIN  
DA20-24-05 REV. 0**

AIRPLANE INFORMATION

Airplane Serial Number	_____
Airplane Registration	_____
Airplane Operator	_____
Hours of Operation of Airplane	_____
No. of Landings	_____
Hours of Operation of Engine	_____
Typical Operation of Airplane	_____
	(private, club, training, other)

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

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