

OPTIONAL SERVICE BULLETIN NO. DAC1-24-05 REV. 2
SUPERSEDES DAC1-24-05 REV. 1

I TECHNICAL DETAILS

I.1 Category

Optional.

I.2 Airplanes Affected

Type: DA 20-C1

Serial Numbers: C0001-C0148, C0150

I.3 Date of Effectivity

30 March 2023.

I.4 Time of Compliance

At owner's discretion.

I.5 Subject

ATA code: 2400.

I.6 Reason

This service bulletin addresses replacement of the standard Yuasa Y50N18L-A-CX battery with the B&C Specialty Products BC100-1 battery or Odyssey ODS-AGM28LMJ battery. Both replacement batteries possess a higher capacity and discharge rate as compared to the Yuasa, resulting in improved starting performance.

I.7 Concurrent Documents

None.

I.8 Approval

The technical information and instructions contained in this document relate to Design Change Advisory No. MÄM 22-0013, which has been approved as part of the type design.

I.9 Accomplishments/Instructions

1. Remove the Yuasa battery. Refer to AMM Section 24-31.
2. Remove the baggage floor. Remove the battery manifold overboard drain tube and replace the "T" tube connector (ty-wrapped to half-ring bulkhead) with the straight connector (item 4). Plug hole in battery compartment with plug (item 5). Refer to Figure 1.

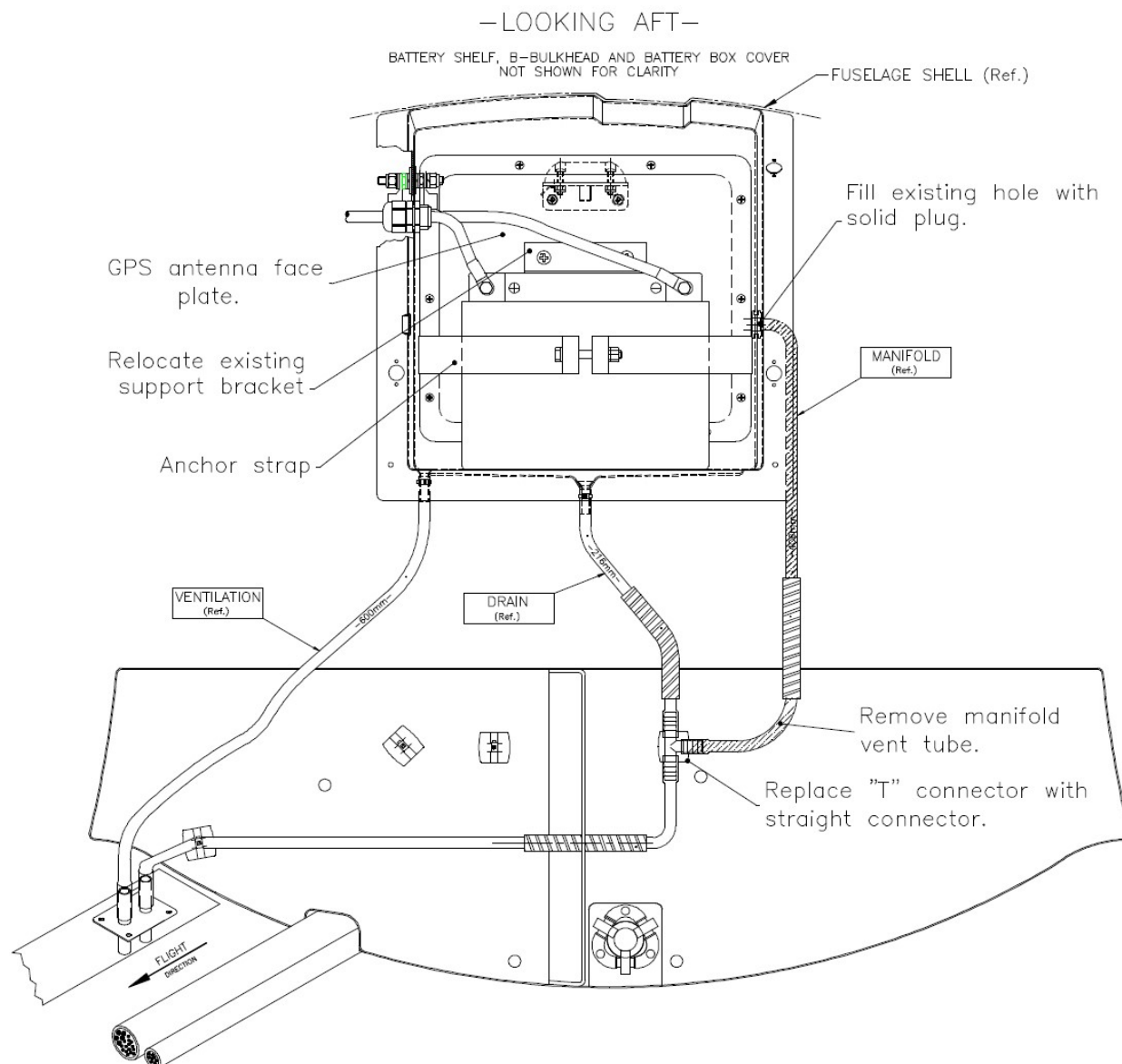


Figure 1

3. Replace the existing anchor strap with the new one (item 9) using the existing bolts.
4. Place B&C (item 10) or Odyssey (item 10a) battery on the battery shelf and push it all the way aft. The terminals point toward the front of aircraft.
5. Using the existing support bracket removed in the step 1, locate two new mounting holes on the GPS antenna face plate.

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6. Remove GPS antenna face plate (carefully disconnect coaxial cable and grounding strap behind face plate) and install new nutplates (item 1) in their new location using rivets (item 2).
7. Re-connect coaxial cable and grounding strap and re-install face plate.
8. Straighten the kink in each battery anchor strap and secure battery using the new bolt (item 3), roll bushings (item 6), washer (item 7) and locknut (item 8).
9. Install support bracket.
10. Re-connect battery leads in accordance with AMM Section 24-31 and torque terminal screws to 50 in-lbs max.
11. Clean the working areas, and check for foreign objects.
12. Make all necessary entries in the logbooks.
13. Submit the execution report to Techpubs@diamondaircraft.com.

I.10 Mass (Weight) and CG

Item	Part Number	Weight
Yuasa battery (Remove)	Y50N18L-A-CX	-16.3 lbs (7.4 kg)
Odyssey battery (Add)	ODS-AGM28LMJ	25.3 lbs (11.5 kg)
Total		9.0 lbs (4.1 kg)

With a lever arm of 56" (1422 mm) referenced to the leading edge of the wing at the root (Ref. AFM).

I.11 Electrical Load Data

No change.

II PLANNING INFORMATION

II.1 Material and Availability

Item	Quantity	Part Number	Description
1	2	MS21077-3	Nut plate, floating
2	4	CCR244SS-3-03	Rivet, nut plate
3	1	AN4-42A	Bolt, hex head
4	1	0706-015	Connector, straight
5	1	245-005	Plug
6	2	22-2810-10-02	Roll bushing
7	1	AN960-416L	Washer, plain
8	1	MS21044N4	Locknut
9	2	22-2400-07-01	Anchor strap
10	1	BC100-1	B&C battery
10a	ALT	ODS-AGM28LMJ	Odyssey battery

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II.2 Special Tools

None.

II.3 Labour Effort

Approximately 1 hour will be required to accomplish this service bulletin.

This estimate is for direct labor 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 20-C1 Aircraft Maintenance Manual Doc. No. DA201-C1, latest effective issue.

DA 20-C1 Airplane Flight Manual Doc. No. DA202-C1, 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 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.

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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EXECUTION REPORT TO SERVICE BULLETIN DAC1-24-05 REV. 2

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.