

# SERVICE BULLETIN



**Service Bulletin No.:** DAC1-24-03 Rev.1

**Date Issued:** August 18, 1999

**Title:** G-35M Battery, Optional Installation

**Page:** 1 of 3

**1. ATA Code:** 2430

**2. Effectivity:** DA20-C1 Aircraft

**3. General:** This service bulletin addresses installation of the optional GIL G-35M battery.

**4. Compliance:** Compliance with this service bulletin is optional.

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

**6. Labor:** Approximately 3 hours 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.*

<b>7. Material:</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
	G-35M	Gil Battery	1
	22-2400-07-07	Spacer Plate	2
	22-2400-07-08	Anchor Strap	2
	22-2400-07-14	Ground Cable	1
	22-2400-07-15	Positive Cable	1
	322870	Ring Terminal	2
	RB-324	Rubber Grommet	1
	245-005	Hole Plug	1
	AN4-5A	Bolt	2
	AN960-416L	Flat Washer	2
	AN4-16A	Bolt	1
	P-0014	Hose	1m

The material listed above is available as a kit by ordering P/N DAC1-24-03AMK1.

**8. Special Tools:** N/A

**9. References:** DA20 Maintenance Manual, Document number DA201-C1.  
DA20 Flight Manual, Document number DA202-C1.

## **10. Accomplishment Instructions:**

- 10.1** Remove the existing battery (reference DA201-C1, chpt. 24-31, sec. 3A).
- 10.2** Remove the support bracket.
- 10.3** Remove the existing anchor strap and its mounting hardware.

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- 10.4** Remove the rubber plug from right side of battery housing and install the new rubber grommet as in Figure 1.
- 10.5** Reroute the vent and drain tubing as in Figure 1.
- 10.6** Install the new anchor strap mounting hardware as in Figure 1.
- 10.7** The new positive cable terminal has a larger diameter (5/16"Ø) ring terminal at the battery end. Do one of the following procedures:
- A) Enlarge the existing ring terminal hole by drilling it with a 5/16" bit. Use a soldering iron and solder to tin the exposed copper on the inside of the hole.
- OR
- B) Cut off the existing terminal and crimp on the new one (P/N 322870).
- OR
- C) Replace the existing battery lead with the new one. This would require partial disassembly of the electrical junction.
- 10.8** Install the new rubber plug in the left side hole in the battery housing.
- 10.9** Install the new battery (reference DA201-C1, chpt. 24-31, sec. 3B). Discard old anchor strap latch bolt and install new bolt P/N AN4-16A as in Figure 1.
- 10.10** Install the support bracket. Elongation of the housing holes may be necessary for proper fit on the battery (see Note in Figure 1).
- 10.11** Update the Airplane Flight Manual weight and balance record.
- 10.12** Make the appropriate entry into the aircraft technical log.

## **11. Weight and Balance:**

Refer to DA202-C1, chpt. 6, Equipment List for changes in the weight and balance.

## **12. Availability:**

Contact Diamond Aircraft.

*To obtain satisfactory results, procedures specified in this service bulletin must be accomplished in accordance with accepted methods and current government regulations. Diamond Aircraft Industries Inc. 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 Industries, Inc., at the address below*

Diamond Aircraft Industries Inc. 1560 Crumlin Sideroad, London, Ontario, Canada N5V 1S2  
Phone: (519) 457-4041 Fax: (519) 457-4060

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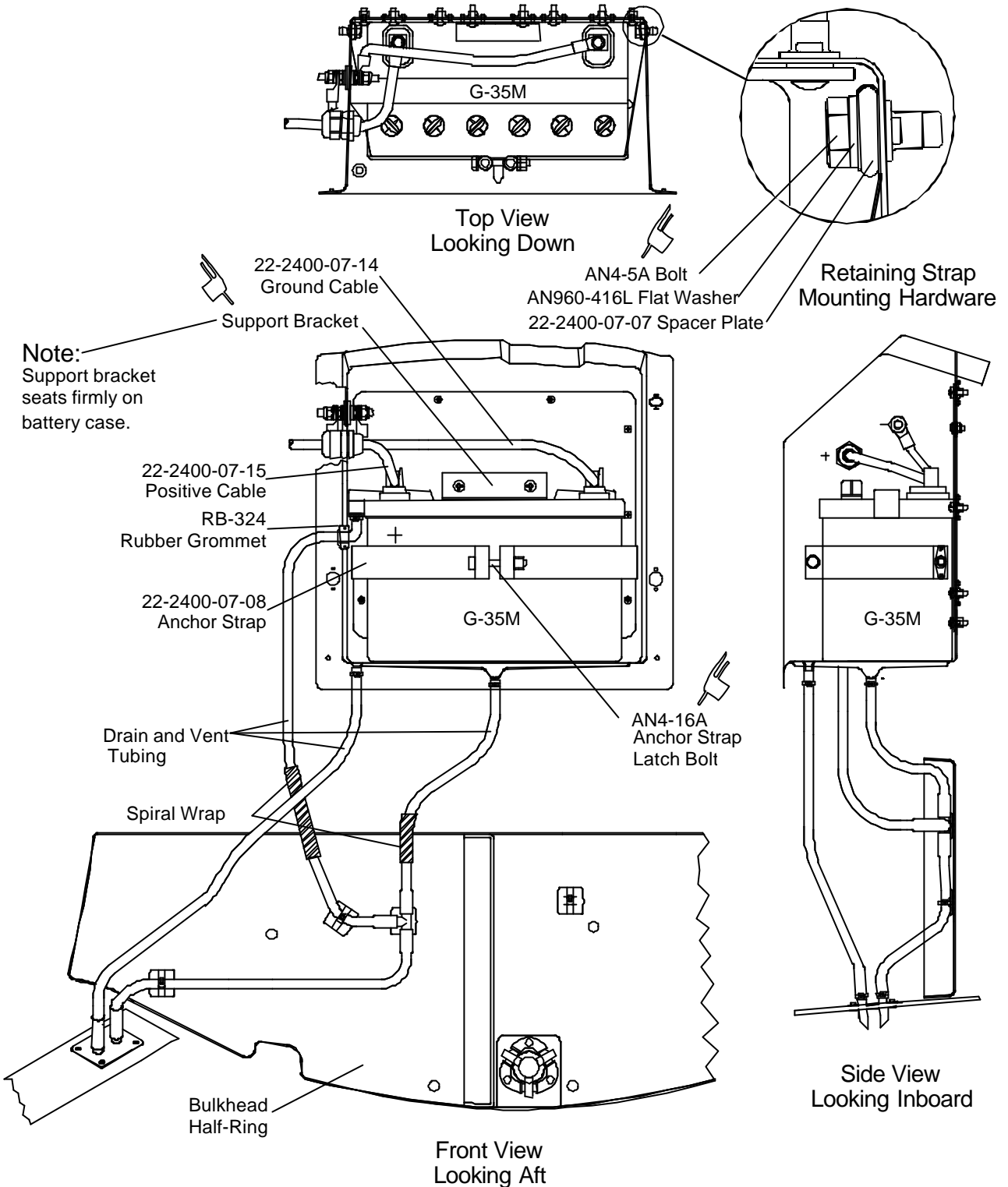


Figure 1