

SERVICE BULLETIN



Service Bulletin No.: DAC1-24-06 Rev 0

Date Issued: 14 January 2004

Title: DA20 C1 – YTX24HL-BS Battery
Installation on Firewall

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- 1. ATA Code:** 2400
- 2. Effectivity:** Diamond Aircraft Model DA20-C1 Serial Numbers C0149, C0151 and up.
- 3. General:** This service bulletin addresses optional replacement of the standard firewall-mounted Yuasa Y50-N18L-A-CX battery with a Yuasa YTX24HL-BS battery. The YTX24HL-BS has approximately 5% higher capacity and 27% higher cold cranking amps than the Y50-N18L-A-CX. It is sealed and maintenance free.
- 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 1/2 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.
- 7. Material:**
- | Part Number | Description | Qty |
|---------------|-----------------------------------|--------------|
| YTX24HL-BS | Battery | 1 |
| P0014 | Hose | 20" (510 mm) |
| MS3367-4-9 | Tie wrap | 2 |
| 22-5300-40-05 | Ballast Strip 0.125 lb (0.056 kg) | 4 |
- The material listed above is available as a kit by ordering P/N DAC1-24-06AMK0.
- Materials required but not supplied - procure locally:
- | Part Number | Description | Qty |
|-------------|-------------------|-----|
| N/A | Isopropyl Alcohol | A/R |
- 8. Special Tools:** N/A
- 9. References:** DA20-C1 Aircraft Maintenance Manual (AMM), Document # DA201-C1.
- 10. Accomplishment Instructions:**
- 10.1** Remove the Yuasa Y50-N18L-A-CX battery in accordance with section 24-31-00 of the AMM.
 - 10.2** Remove and discard ventilation and drain hose, with T-fitting.
 - 10.3** Install P0014 hose to battery tray drain fitting and tie wrap to fuel drain assembly. Do not over tighten tie wraps. Ensure hose is open.
 - 10.4** Prepare and charge the Yuasa YTX24HL-BS battery in accordance with manufacturer's instructions included with the battery.

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- 10.5** Install Yuasa YTX24HL-BS battery in accordance with section 24-31-00 of the AMM using existing retaining strap.
 - 10.6** Remove lower fin in accordance with section 55-30-00 of the AMM.
 - 10.7** Clean inner surface of fin with isopropyl alcohol.
 - 10.8** Install four ballast strips on inner surface of fin as far aft as possible. Remove backing film and press firmly in place. Ensure that ballast strips do not interfere with installation of lower fin on fuselage.
 - 10.9** Install lower fin in accordance with section 55-30-00 of the AMM.

11. Weight and Balance:

		Weight (lb)	Arm (in)	Moment (in lb)
Remove	Y50-N18L-A-CX	-15	-34.3	514.5
Add	YTX24HL-BS	17	-34.3	-583.1
Add	Ballast	0.5	178	89.0
Subtotal		2.5	8.16	20.4

12. Availability: Contact Diamond Aircraft.

13. Credit Terms and Conditions

None