

# SERVICE BULLETIN



**Service Bulletin No.:** DAC1-31-01 Rev 0

**Date Issued:** 29 June 2017

**Title:** Removal of OAT/Clock AA Battery

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- 1. ATA Code:** 3100
- 2. Effectivity:** All DA20-C1 aircraft with the M803-14V OAT/Clock installed.
- 3. General:** Addresses a magnetic interference issue on the standby compass experienced by some aircraft.
- 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. Labour:** 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.*

<b>7. Material:</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
	M22759/16-22-9	Wire, 22 Awg (1500mm)	1
	2-520184-2	Faston, Red, 22-18 AWG	1
	205090-1	Contact, Socket	1
	3PS-125-2W	Label, Heat Shrink	2
	MS3367-5-9	Cable Ties	10

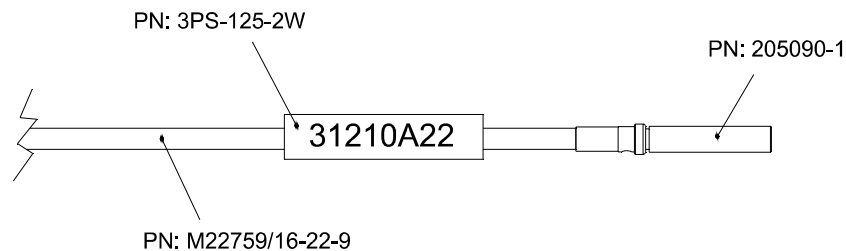
Material may be ordered as kit: **DAC1-31-01AMK0**

- 8. Special Tools:** n/a
- 9. References:** DA20-C1 Aircraft Maintenance Manual, Document # DA201-C1

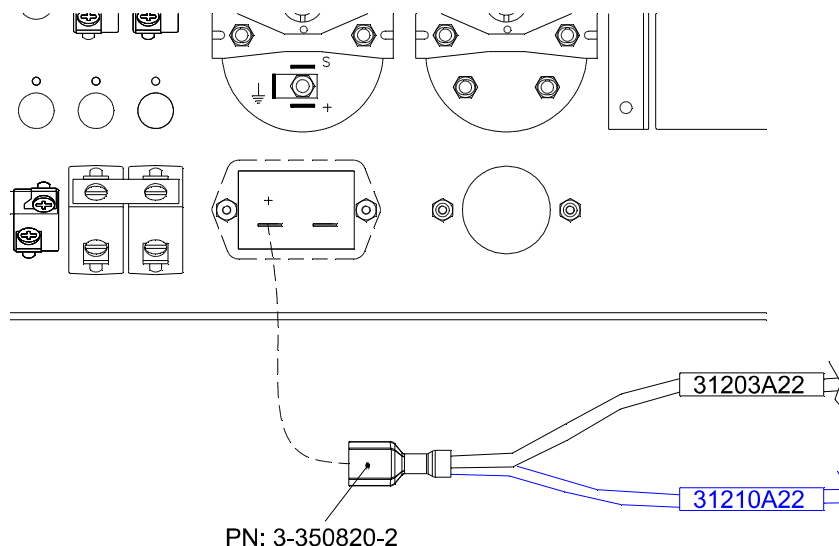
## **10. Accomplishment Instructions:**

- 10.1** Disconnect the aircraft battery as per AMM Chapter 24-31-00
- 10.2** Remove instrument panel cover as per AMM Chapter 25-10-00
- 10.3** Remove AA battery installed on OAT/Clock.

- 10.4** Prepare new wire as shown below. Use permanent marker to record wire code.



- 10.5** Install new wire into pin 9 of OAT/Clock connector (J3120-02).
- 10.6** Route new wire along existing harness to hourmeter and secure with supplied cable ties.
- 10.7** Cut new wire 31210A22 to length to plug into '+' contact of hourmeter.
- 10.8** Install second supplied label to wire end and record wire code 31210A22 using permanent marker.
- 10.9** Remove faston from wire 31203A22 and crimp together with new wire 31210A22 using supplied faston.



- 10.10** Install the following label on the back of the M803-14v OAT/Clock, using a label maker. Apply clear nail polish or equivalent over label.

<p>DO NOT INSTALL BATTERY (REF. 22-2400-36-00_2/SB DAC1-31-01)</p>
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**10. Test Procedure:**

- 11.1** Clean the work area and inspect for foreign objects.
- 11.2** Connect the aircraft battery as per ATA chapter 24-31-00 of the DA20-C1 AMM.
- 11.3** Push in Battery circuit breaker and turn Electrical Master switch to ON.
- 11.4** Cycle OAT/Clock circuit breaker and verify that the compass needle is not deflected.
- 11.5** With the OAT/Clock circuit breaker in set the clock time.
- 11.6** Cycle OAT/Clock circuit breaker and verify that the clock time is not reset.
- 11.7** Install the instrument panel cover as per ATA chapter 25-10-00 of the DA20-C1 AMM.
- 11.8** Make a log book entry that this Service Bulletin has been incorporated.

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**11. Weight and Balance:** negligible

**12. Availability:** Contact Diamond Aircraft Industries Inc.

**13. Electrical Load Data:**

Items Installed	
Description	Current (A)
OAT/Clock 'keep alive' wire (pin 9)	0.000040

**14. Credit:** None

*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.*

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