

OPTIONAL SERVICE BULLETIN NO. DAC1-33-07 REV. 1
SUPERSEDES DAC1-33-07 REV. 0

I TECHNICAL DETAILS

I.1 Category

Optional.

I.2 Airplanes Affected

Type: DA 20-C1

S/N: C0002 to C0647

NOTE: if this service bulletin is incorporated, the latest revision of Service Bulletin No. DAC1-27-04 - Installation of Diamond Flap Control & Microswitch Tray, must also be incorporated.

I.3 Date of Effectivity

10-January-2020

I.4 Time of Compliance

At owner's discretion.

I.5 Subject

This service bulletin allows the installation of the Diamond Aircraft dimming module.

ATA code: 3300.

I.6 Reason

This change was implemented due to the original dimming module no longer being available.

I.7 Concurrent Documents

None.

I.8 Approval

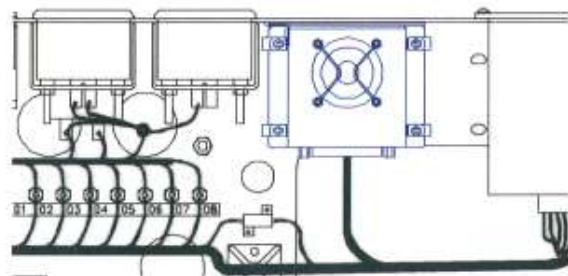
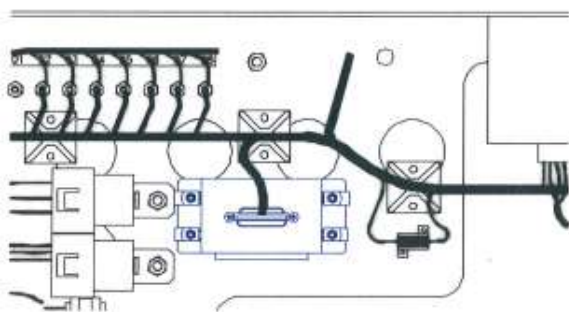
The technical content of this document is approved as part of the type design.

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I.9 Accomplishment/Instructions - Installation

1. Pull the battery circuit breaker located on the right side of the instrument panel.
2. Disconnect the aircraft battery as per AMM Chapter 24-31-00.
3. Remove the instrument panel cover as per AMM Chapter 25-10-00.
4. Disconnect the J3325-02 connector from the dimmer module, and remove the dimmer module (P/N WW-LCM001) from the instrument panel. The connector on G500 equipped aircraft is shown below on the left; the connector on non-G500 equipped aircraft is shown on the right.



5. De-pin the wires indicated below from the J3325-02 connector (dimmer connector) on the instrument panel harness.

Pin	Wire
8	33712A22
14	33711A22
20	33713A22

6. Cut crimps off the extracted wires.
7. Remove the instrument lighting knob from the potentiometer.
8. Remove the instrument potentiometer and attached wires (33711A22, 33712A22, and 33713A22) from the instrument panel.
9. Install the new potentiometer harness (P/N 22-3315-11-00SB) into the same location as the previous harness.
10. Reinstall the instrument lighting knob.
11. Route the potentiometer harness to the J3325-02 connector (dimmer), and cut to length. Secure with the supplied cable ties (MS3367-5-9).

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12. Crimp the supplied contacts (P/N 205090-1), and terminate into the harness dimmer connector as shown below.

Pin	Wire
3	33711A22
8	33712A22
12	33713A22
14	33714A22
20	33715A22N

13. Install the new dimmer module (P/N 22-3315-10-00SB) into the same location as previous. Use the supplied hardware (screw: MS35206-230, washer: NAS1149DN616H).
14. Plug the instrument panel harness connector J3325-02 into the new dimmer, and secure.
15. Connect the aircraft battery as per AMM chapter 24-31-00.
16. Push in the battery circuit breaker and turn the electrical master switch on.
17. Confirm that the aircraft's lighting system functions correctly by turning the instrument lighting knob on and rotating fully clockwise. Verify that the aircraft's lights turn on and increase in intensity.
18. Turn the instrument lightning knob off.
19. Turn the electrical master switch off.
20. Clean the work area and inspect for foreign objects.
21. Install the instrument panel cover as per AMM Chapter 25-10-00.
22. Make a logbook entry that this service bulletin has been incorporated.

I.10 Mass (Weight) and CG

Make the following adjustments to weight and balance:

Items Removed		Items Installed	
Description	Weight	Description	Weight
White Wire dimmer (WW-LCM001)	0.17 kg (0.37 lb)	Diamond Aircraft dimmer module (22-3315-10-00)	0.19 kg (0.42 lb)

I.11 Electrical Load Data

No change.

II PLANNING INFORMATION

II.1 Material and Availability

Quantity	Part Number	Description
1	22-3315-10-00SB	Dimmer module
1	22-3315-11-00SB	Potentiometer harness
15	MS3367-5-9	Cable tie
6	205090-1	Contacts, sockets
4	MS35206-230	Screw, machine
4	NAS1149DN616H	Washer, flat

Material may be ordered as kit DAC1-33-07AMK0.

II.2 Special Tools

None.

II.3 Labour Effort

Approximately 3 hours.

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.

II.5 Reference Documents

DA 20-C1 Airplane Maintenance Manual, Doc. No. DA201-C1, latest effective issue.

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

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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 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.

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**EXECUTION REPORT TO
SERVICE BULLETIN
DAC1-33-07 REV. 1**

AIRPLANE DATA

Airplane Serial Number	_____
Airplane Registration	_____
Airplane Operator	_____
Hours of Operation Airplane (TSN)	_____
Typical operation of airplane	private, club, training, other: _____

MAINTENANCE DATA:

Date of work	_____
Work carried out by	_____ _____
Date	_____ _____

_____ Name	_____ Signature
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Please e-mail the completed form to Techpubs@diamondair.com