

SERVICE BULLETIN



Service Bulletin No.: DAC1-33-05 Rev 0

Date Issued: 23 Feb 2015

Title: Installation of RFI protected Lighting
Voltage Regulator Assembly

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- 1. ATA Code:** 3310
 - 2. Effectivity:** DA20-C1 aircraft serial number C0648 to C0661.
 - 3. General:** Some aircraft within this serial number range have observed dimming of the instrument panel lights when transmitting on certain radio frequencies. Replacing the existing light dimming voltage regulator with a RFI protected Voltage Regulator Assembly corrects this nuisance.
 - 4. Compliance:** Compliance with this Service Bulletin is recommended.
 - 5. Approval:** Engineering data referenced or contained in this Service Bulletin is approved as part of the type design.
 - 6. Special Tools:** none
 - 7. Labour:** Approximately 1.0 hour will be required to accomplish this Service Bulletin.

This estimate is for direct labour performed by a technician and it does not include setup, planning, familiarization or tool acquisition.

8. Material:	Part Number	Description	Qty
	22-3314-10-00	Voltage Regulator Ass'y	1
	MS35206-230	Screw, Machine	2
	NAS1149DN616H	Washer, Flat, Thin	4
	MS21044N06	Locknut	2
	MB4A10	Cable Tie Base	1

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

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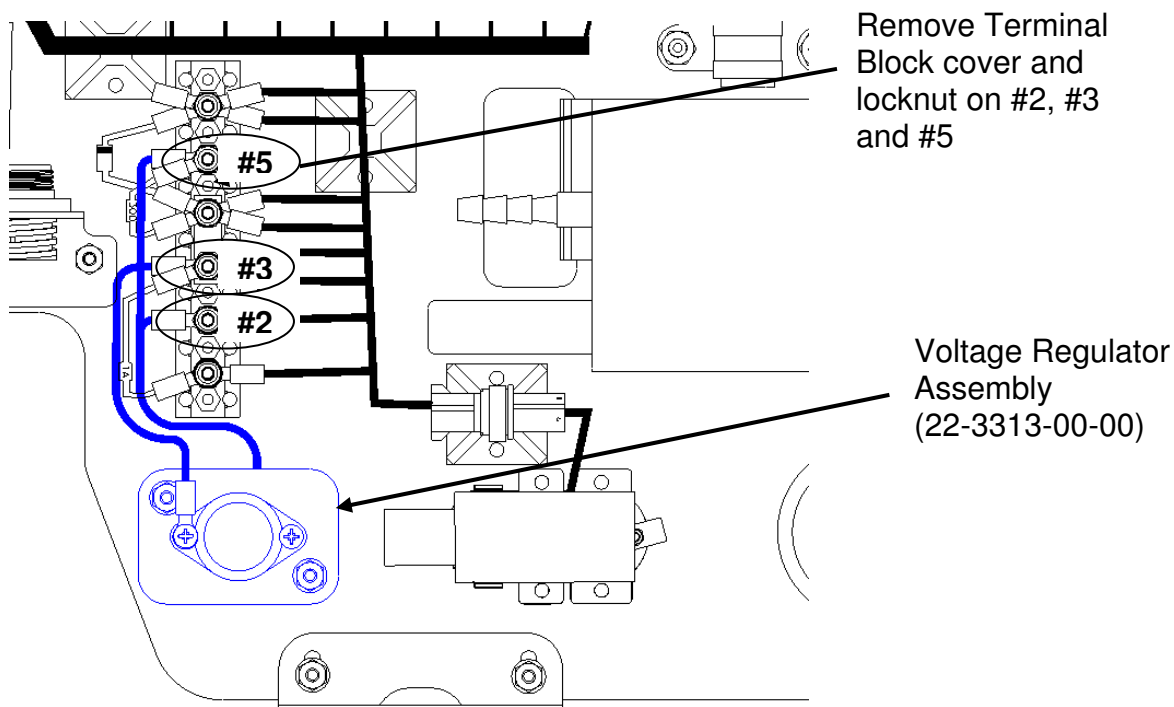
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10. General Instructions:

- 10.1** Disconnect the aircraft battery as per AMM Chapter 24-31-00
- 10.2** Remove the instrument panel cover as per AMM Chapter 25-10-00
- 10.3** Pull the Battery Circuit breaker located on the right side of the instrument panel.
- 10.4** Disconnect the Garmin display and Garmin air data computer connectors.
- 10.5** Remove the terminal block cover and voltage regulator assembly (22-3313-00-00) from the aircraft.

Note: Cooling fan hose may need to be temporarily disconnected from fan. Use a twisting/pulling motion to disconnect.

VIEW: LOOKING DOWN (LH SIDE)



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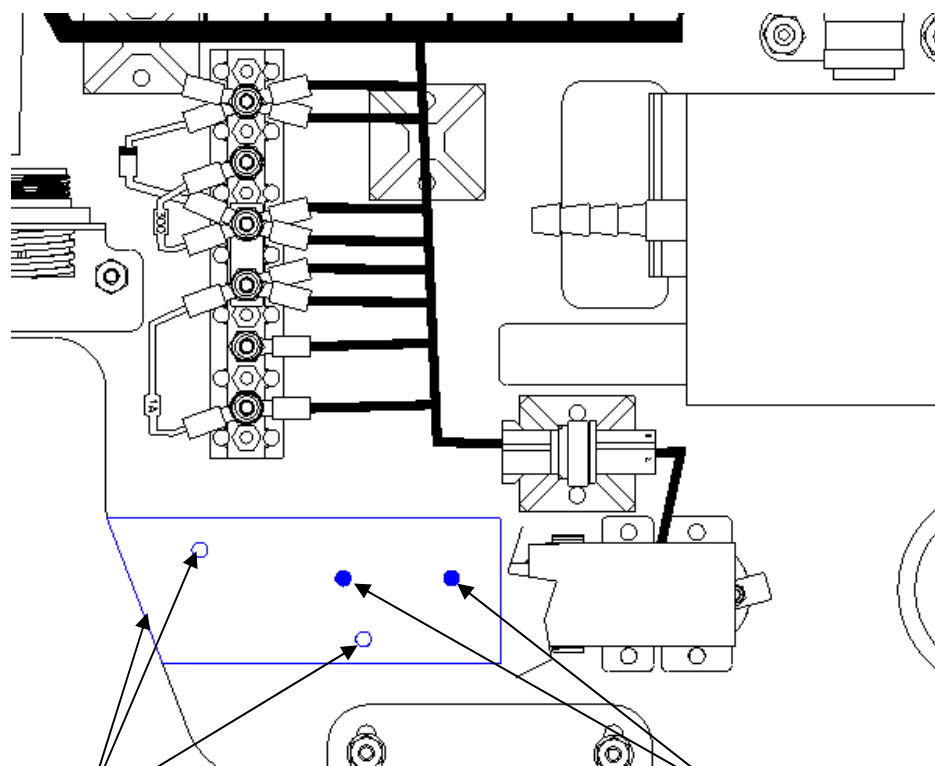
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10.6 Print template to scale (see Appendix A).

10.7 Place template over existing voltage regulator holes and drill additional holes using a 5/32" drill bit.



Line template with existing voltage
regulator holes and edge of
instrument panel

Drill holes with
5/32 drill bit.

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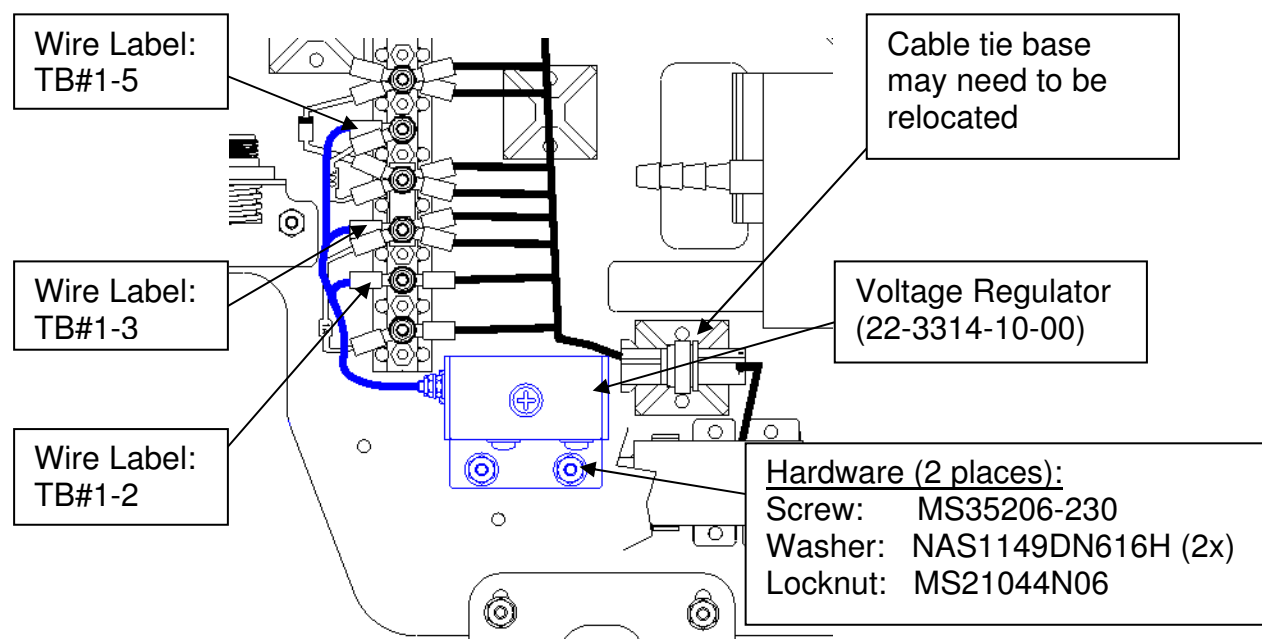
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- 10.8** Install new voltage regulator assembly (22-3314-10-00) using supplied hardware. Use existing terminal block hardware for wire connections.

Note: Cable tie base may need to be relocated. Additional cable tie base supplied, if needed.



- 10.9** Install the terminal block cover.
- 10.10** Re-connect the Garmin display and Garmin air data computer connectors.
- 10.11** Re-install the cooling fan hose, if removed.
- 10.12** Clean area and check for foreign objects.
- 10.13** Install the instrument panel cover as per AMM Chapter 25-10-00.
- 10.14** Connect the aircraft battery as per AMM Chapter 24-31-00
- 10.15** Push in the Battery Circuit breaker located on the right side of the instrument panel.

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10.16 Function check:

- 10.16.1 Turn AVIONICS MASTER switch to ON.
 - 10.16.2 Turn INSTRUMENT LT. potentiometer to ON.
 - 10.16.3 Confirm instrument panel lights increase and decrease in intensity with rotation of instrument lights knob.
 - 10.16.4 Shut power OFF and remove EPU.
- 10.17 Make a logbook entry that this service bulletin has been completed.

11 Weight and Balance:

- 11.1 Make the following adjustments to weight and balance:

Items Removed			Items Installed		
Description	Weight kg (lbs)	Arm in (m)	Description	Weight kg (lbs)	Arm in (m)
22-3313-00-00	0.06 (0.13)	-18.0 (0.46)	22-3314-10-00	0.14 (0.31)	-18.0 (0.46)

12 Electrical Load Data:

- 12.1 No impact to the electrical load.

13 Credit:

- 13.1 In accordance with aircraft warranty terms and conditions. Submit customer claim form for reimbursement of parts and labour. All removed parts to be returned to 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 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

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APPENDIX A

TEMPLATE

