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SB TMG 601-1012 P1, Rev. 1

SERVICE BULLETIN

PRIORITY 1 - SAFETY

Service Bulletin No. / Date: SB TMG 601-1012 P1, Revision 1 / June 11, 2018

Subject: Modification of the GARMIN G1000 interface.

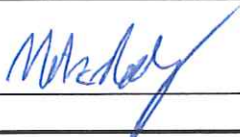

Type affected: Cessna C172-S with TAE 125-02-114.

Models affected: Following aircraft serial numbers:
17281403 ; 172S11144 ; 172S11145 ; 172S11181 ; 172S11323
172S11689 ; 172S11704 ; 172S11732 ; 172S11733 ; 172S11734
172S11735 ; 172S12003 ; 172S12015 ; 172S12028 ; 172S12049
172S12053 ; 172S12054 ; 172S12058 ; 172S12064 ; 172S12078
172S12082 ; 172S12084 ; 172S12085 ; 172S12119 ; 172S12125
172S12132 ; 172S12138 ; 172S12142 ; 172S12150

Classification: Category P1 – SAFETY

Time of Compliance: Within the next 50 flight hours or with the next maintenance inspection, whichever occurs first.

Reason: Faulty Alternator warning indication.

Checked B. Metzdorf, CVE 	Approved M. Heinich, Office of Airworthiness 
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Replaces Service Bulletin No. / Date: -
SB TMG 601-1012 P1, Initial Issue / June 07, 2018

Page 1 / 5

Correction:

1. Preparation

- Disconnect the main, excitation and FADEC backup battery in accordance with AMM 20-02.
- Ground the aircraft.
- Remove the Primary Flight Display (PFD) in accordance with the GARMIN G1000 Maintenance Manual



Figure 1: Removed PFD

2. Modification:

Parts:

Item	Part Number	Description 1	Description 2	Qty.
1	20-3940-E029501	Resistor	4,7kΩ / 3W	1



Figure 2: Resistor P/N 20-3940-E029501

- Look for the white wire of the AWL loom (free wire end) installed behind the PFD.
- Look for the white/blue wire of the AWL loom connected to line AWL.

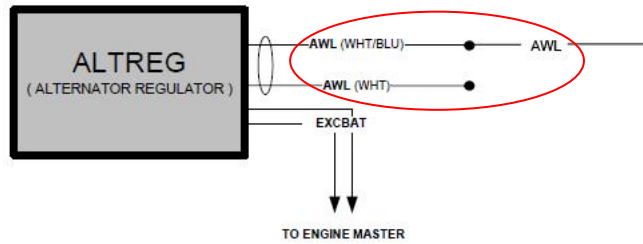


Figure 3: AWL lines pre modification

- Disconnect the line AWL from AWL (WHT/BLU).



Figure 4: Disconnected lines

- Install the resistor (item 1), connect as follows:
 - blue UFP blade terminal (male) to wire AWL (WHT/BLU)
 - red UFP blade terminal (male) to wire AWL (WHT)
 - red UFP blade receptacle (female) to line AWL

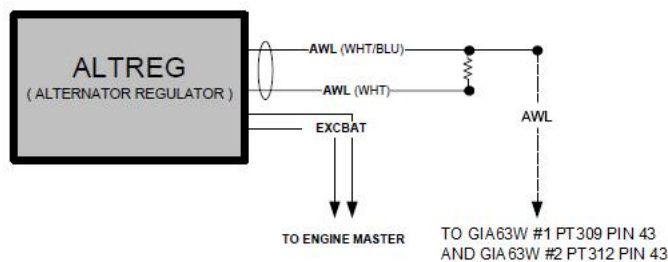


Figure 5: Modified electrical installation

- Fasten the resistor appropriate and bundle the wires using cable ties.
- Install the Primary Flight Display (PFD) in accordance with the GARMIN G1000 Maintenance Manual.
- Connect the main, excitation and FADEC backup battery.



3. Alternator Warning Test:

- Start the engine according to the POH.
- Switch the Avionic-BUS 1 & 2 on and let the G1000 system completely run up. (attitude indicator must be displayed)
- Warm-up the engine according to the POH.
- Check the Alternator Warning as follows:

Step 1 (Normal Operation)

- PFD / MFD	Enabled
- Load selector	IDLE
- AWL Circuit Breaker	Normal
- ALT switch	ON
- CAS Messages	None
- Aural Warning	None

Step 2 (ALT switch test)

- Load selector	IDLE
- AWL Circuit Breaker	Normal
- ALT switch	OFF
- CAS Message	ALTR FAIL (incl. Aural Warning)
- AWL switch	ON
- CAS Messages	None

Step 3 (Circuit breaker test)

- Load selector	IDLE
- AWL switch	ON
- ALT Circuit Breaker	Pull
- CAS Message	ALTR FAIL (incl. Aural Warning)
- AWL Circuit Breaker	Normal
- CAS Messages	None

- Shut down the engine according to the POH.



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Remarks: In case of uncertainties during the installation please contact the technical support of Technify Motors GmbH.

support@continentaldiesel.de

Approval: The technical information contained in this document has been approved under the authority of EASA Design Organisation Approval No. EASA.21J.010.

Appendix: ---