

Recall Repair Instructions

NHTSA Recall # 25V-481

Tiffin Motorhomes Recall # TIF-145

Models involved: 2025 GT1 Motorhomes

Purpose: To reconfigure the secondary alternator so that it only charges the house batteries when the engine is operating at or above 1200 RPM.

FLAT RATE CODE & TIME ALLOWED: *When filing the warranty claim for payment, please use the following flat rate code. **9888RC01**, 1.50 hours for steps 1-16, 0.50 hrs for steps 17-20. **No authorization is required for work completed at the flat rate times stated on the work instructions.** Use "TIF-145" as the authorization on claim for payment of labor and needed shop supplies.*

NOTE: Mercedes-Benz PSM must be updated by an authorized Mercedes-Benz dealer or service provider.

Tools Needed:

- Impact Drill
- Phillips Head Bit
- E12 Socket
- Android OS device w/ Wakespeed App installed
- USB-B to USB-C cable.

Parts Needed:

- 5177529 Communication Cable (PSM to Wakespeed)
- 5178005 Wakespeed Terminator
- 1, 1" Grommet (e.g. ABC Logistics #20142) shop supplies
- As needed, Exterior Rate Zip Ties, shop supplies
- 18 ft ¼" Wire loom, shop supplies



5177529



5178005

Repair instructions:

1. Disconnect the chassis battery at the battery disconnect. Remove the access panel next to the accelerator pedal (see Figure 1A). Push in the red tab shown in Figure 1B and then pull to disconnect (some models may have a black tab). **NOTE:** This step is critical to prevent any unintentional short circuits or electrical damage while removing the driver's seat or working on electronic components.



Figure 1A



Figure 1B

2. Remove the driver's seat by using an E12 socket to unbolt and remove the driver's seat to access the modules located beneath the seat.

- Remove Mercedes Valeo Module shown in figure 2 by pulling up on the front edge while pressing the locking clip forward. Set the module aside to access the PSM below it.

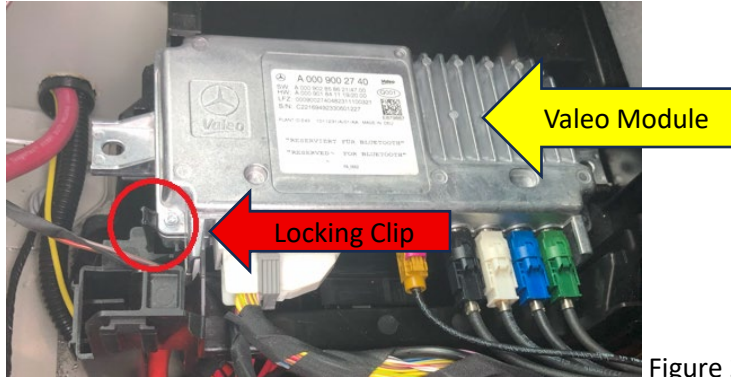


Figure 2

- Remove the PSM shown in Figure 3A, which is also secured with snap-in clips and remove the PSM to access the connector pins, shown in figure 3B.

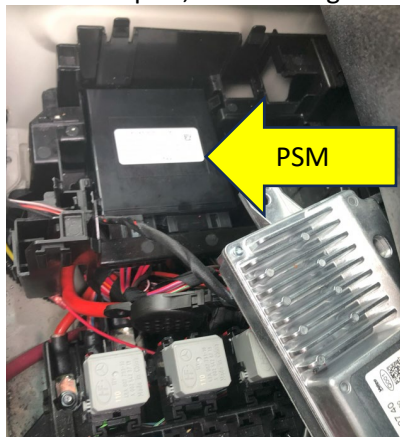


Figure 3A

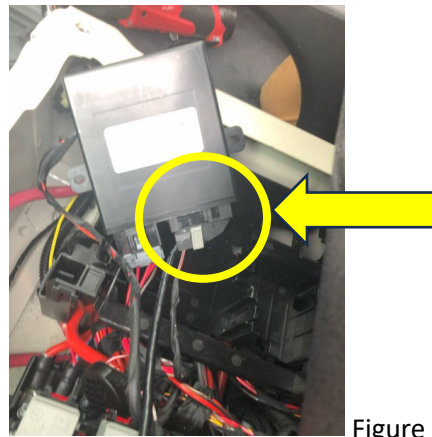


Figure 3B

- Disconnect the wiring harness, shown in figure 3B & 4A from the PSM. Insert wires from the communication cable, part 5177529 as shown. Figure 4B, Pin 16, connect to brown CAN wire from Wakespeed or RJ45 Pin 1. Figure 4C, Pin 32, connect to white with brown stripe CAN wire from Wakespeed or RJ45 Pin 2, **NOTE: The cable provided with the parts kit will be loomed.**

⚠ Confirm secure and correct placement; improper connection can lead to system malfunction.

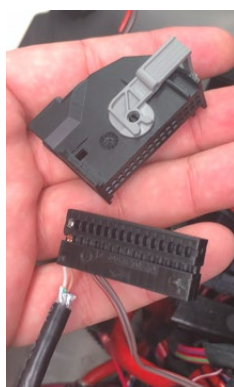


Figure 4A

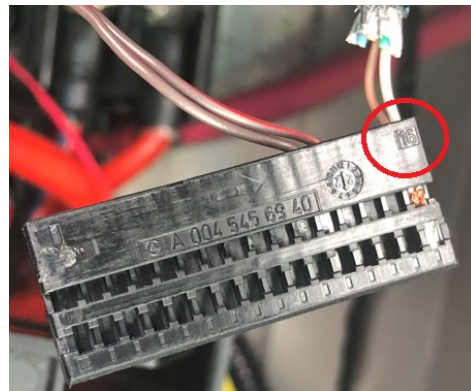


Figure 4B, Pin #16

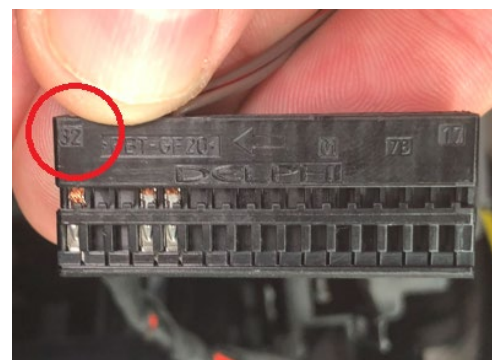


Figure 4C, Pin #32

- Install the wire loom onto the communication cable (PSM to Wakespeed #5177529).

7. Route Communication cable (PSM to Wakespeed #5177529) through hole under driver's seat, see Figure 5A red square, back to the rear of the unit. Route along chassis rail, using zip ties to secure the cable as needed, see Figure 5B & 5C.

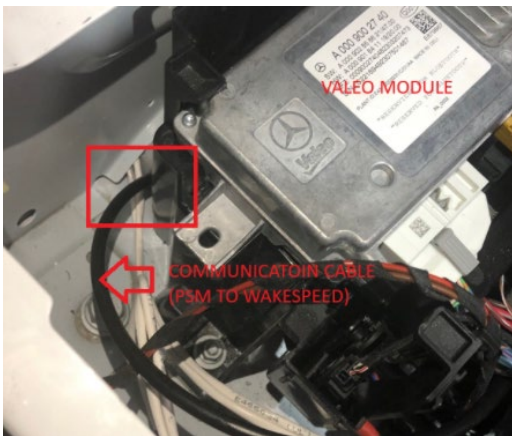


Figure 5A



Figure 5B



Figure 5C

8. Once past the holding tank, turn back over frame, zip tie and continue toward the rear of the unit, see figures 6A, 6B & 6C. **NOTE: Ensure the communication cable does NOT touch any hydronic hoses or is too close to the tank sensor.**



Figure 6A



Figure 6B

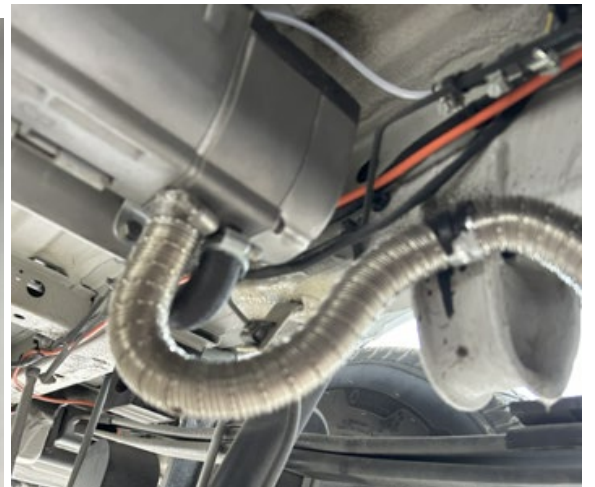


Figure 6C

9. To access the Wakespeed, open the rear doors of the van and remove the fabric panels shown in Figure 7A & 7B.



Figure 7A



Figure 7B

10. On units with 4 batteries the rear panel, Figure 8, will need to be removed. Screws are located along the top/rear side of the panel.

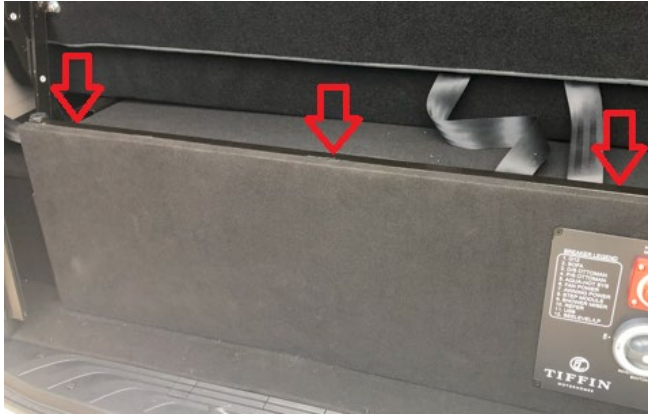


Figure 8

11. On the driver side of the unit, measure 2 ½" for hole location from the rear sofa bracket bolt, see figure 9A circle represents hole, and drill 1 inch hole for cable. Install rubber grommet in hole to protect cable from rough metal edges, see figure 9B.



Figure 9A



Figure 9B

12. Connect Communication Cable and terminator connection, part 5178005 to Wakespeed regulator. NOTE: Terminator is not shown in Figure 10 but will plug into the input with the red square.



Figure 10

- Remove the Phillips head screws located on the Wakespeed regulator and remove the top cover to expose the internal circuit board, figure 11A. Insert the corresponding plug of the USB-B to USB-C cable into the socket located on the circuit board of the Wakespeed controller (see Figure 11B) and plug the corresponding plug of the same cord into the socket at the bottom of the Android enabled device (charging port).



Figure 11A



Figure 11B

- Open Wakespeed app on the android device. If it's not installed yet, install the Wakespeed app (see Figure 12) on the device by searching for it in the Google Play store and selecting install.

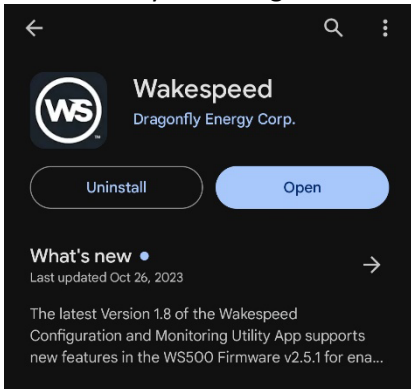


Figure 12

- Input the settings shown below in Figures 13A, 13B, 13C, 13D, 13E & 13F.

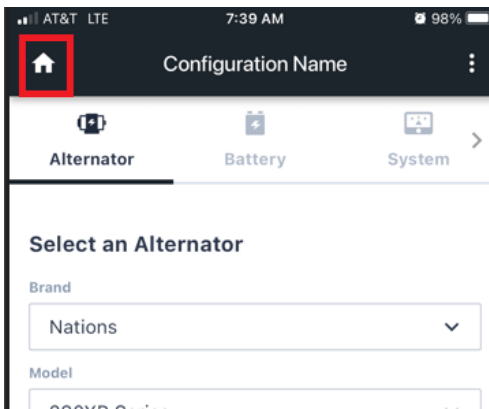


Figure 13A – Select Home button

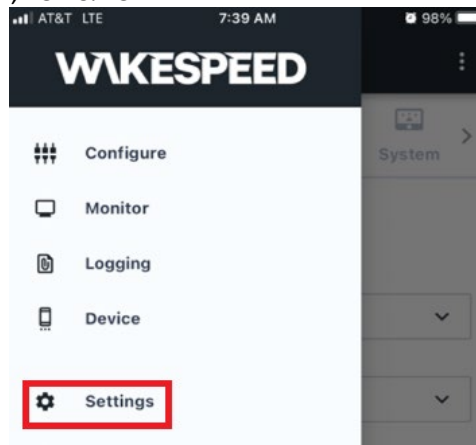


Figure 13B – Select Settings



Figure 13C – Turn on ‘Expert Mode’

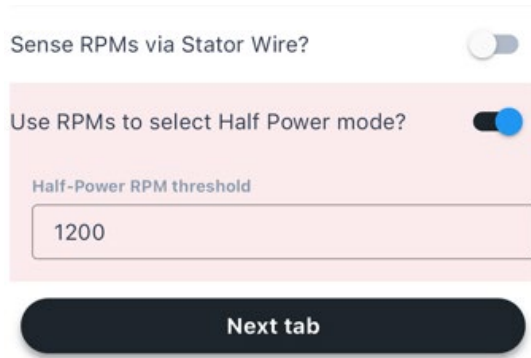


Figure 13D - Toggle OFF “Sense RPMs via Stator Wire”
 Leave ON “Use RPMs to select Half Power Mode”
 Ensure threshold remains at 1200 RPMs

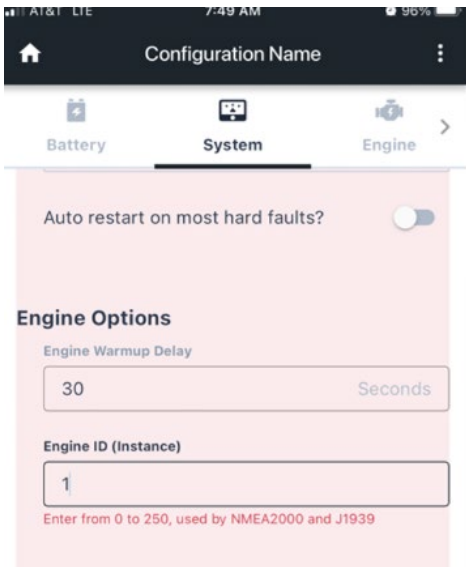


Figure 13E – Navigate to System Tab
 Engine Options – set Engine ID to 1

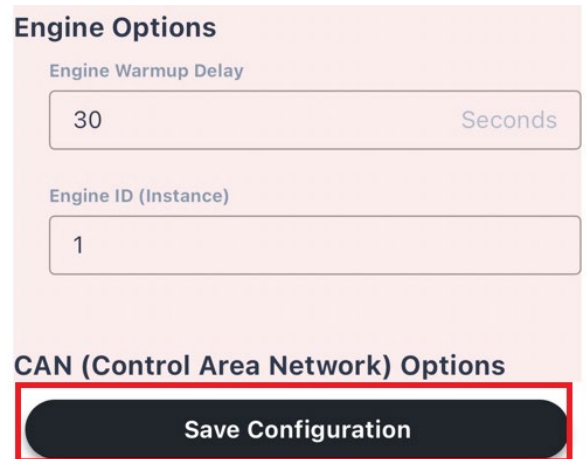


Figure 13F –Once complete, select “Save Configuration”

16. Reassemble all removed components. Secure PSM and Valeo Module in the correct location under driver’s seat and reinstall driver’s seat torquing mounting bolts to approximately 35 ft-lbs. Reinstall any removed trim and access panels, being careful not to overtighten or strip the fasteners. Reconnect chassis battery cable and access panel.

NOTE: steps 17 – 19 must be completed at a Mercedes Benz Authorized Service Center

17. Install the update to the PSM. The update file is available for download from Tiffin Motorhomes https://www.dropbox.com/scl/fi/fqbkgzwm95ts0r92k1zoz/PSM907_PSMTIFFINNEW.CDS?rlkey=j55miqsnqjszw xws1dp2hibw&st=5kfb1s45&dl=0

18. Clear engine codes related to the removing and reinstalling of the driver's seat.

19. To ensure the secondary alternator is functioning as intended, start the engine. At idol, CHG AMPS will be negative, battery voltage will be green. Figure 15

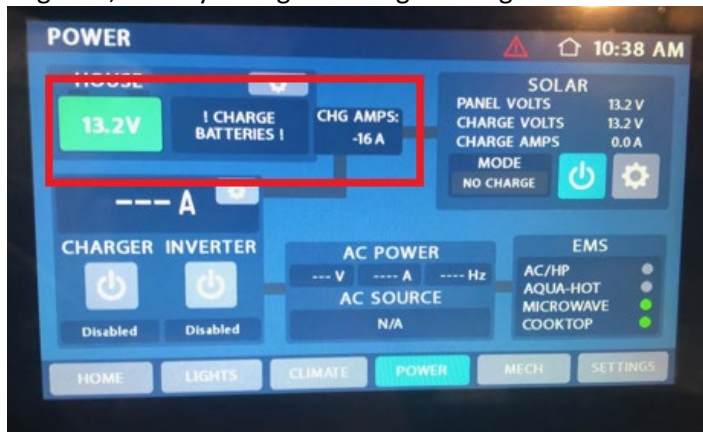


Figure 15

20. Hold the accelerator pedal to where RPMs are at 1200 or a little higher and check display screen. After a few seconds, CHG AMPS will be positive, battery voltage will be blue. Figure 16

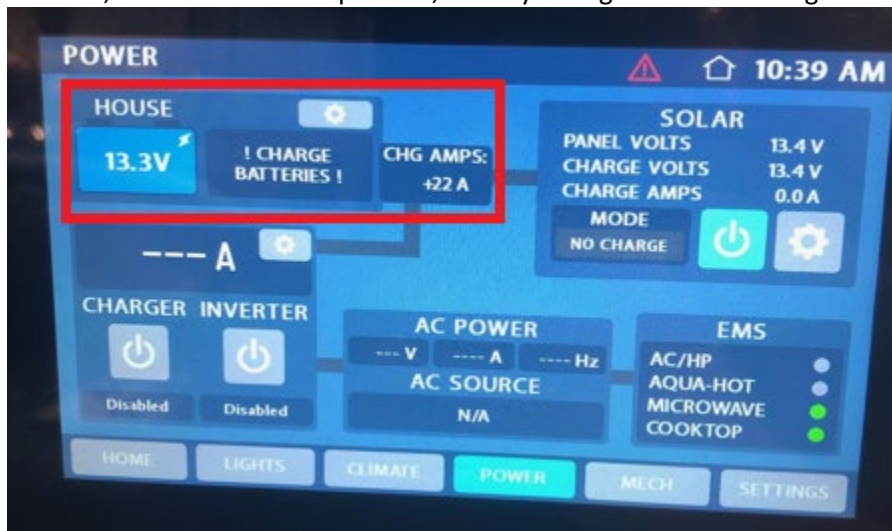


Figure 16