

Recall Repair Instructions

NHTSA Recall # 25V-481

Tiffin Motorhomes Recall # TIF-145

Models involved: 2025 and 2026 GH1 Motorhomes equipped with a smart shunt

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, 2 hours.** 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
Torque Wrench (capable of 35ft*lbs)
Fiberglass Cable Rod (or substitute)
USB-B to USB-C cable.
Android OS device. (Phone or Tablet) w/ Wakespeed App installed

Parts Needed:

5177529 Communication Cable (PSM to Cerbo)
5176915 Crossover Cable (Cerbo to Wakespeed)
5178005 Wakespeed Terminator
5178057 Cerbo Terminator
5052580 CAT6 6ft cable
5033288 CAT6 Coupler



5176915



5178005



5178057



5177529

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

- 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.

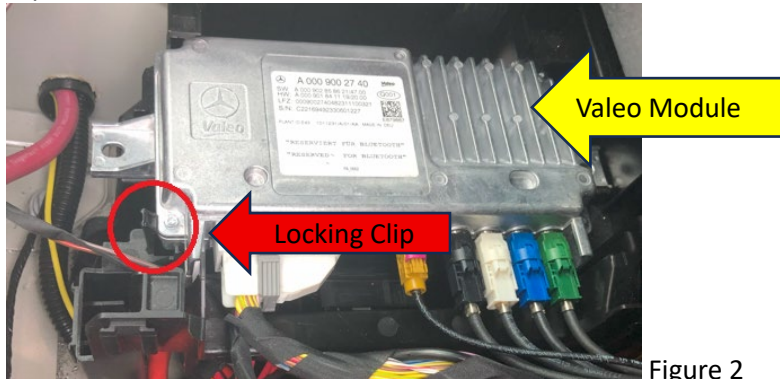


Figure 2

- 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.

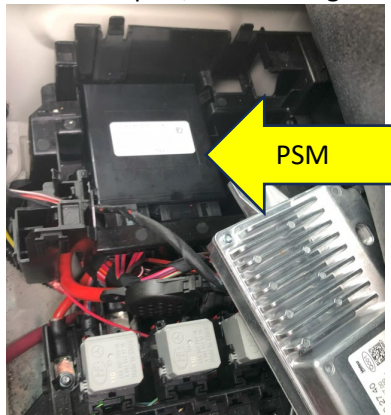


Figure 3A

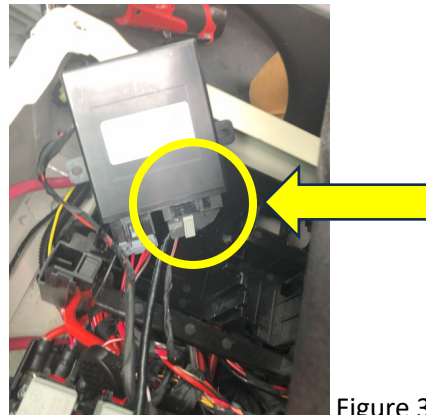


Figure 3B

- 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 white with brown stripe CAN wire from Wakespeed or RJ45 Pin 2. Figure 4C, Pin 32, connect to brown CAN wire from Wakespeed or RJ45 Pin 1

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

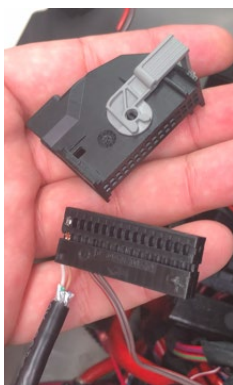


Figure 4A

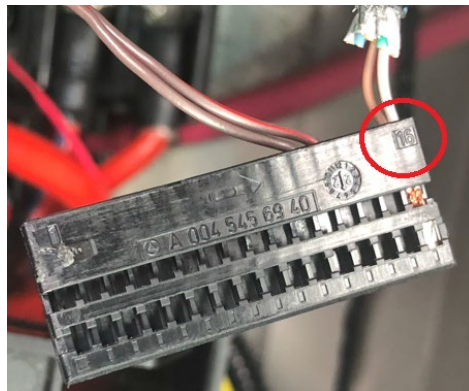


Figure 4B, Pin #16

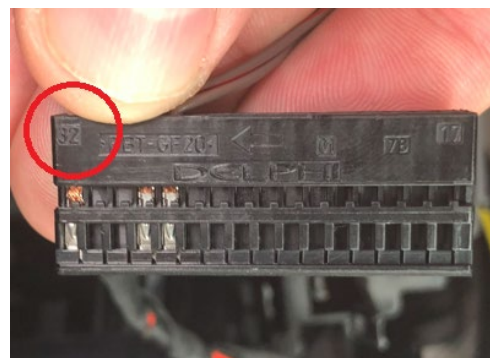


Figure 4C, Pin #32

- Route the communication cable, part 5177529, from the PSM under the driver's seat, along the B-pillar, under the jump seat foot pedestal to the Cerbo which is mounted under the jump seat or adventure bar platform close to the driver's side wall.

- Remove the floor trim shown in Figure 5A and fold up the padding behind the driver's seat, shown in Figure 5B, as needed to route wire. If the Adventure Bar is included in the unit, drill a hole behind the foot pedestal, as shown in Figure 5C. If needed, the foot pedestal may be removed by removing the screws from the metal trim shown in 5D.



Figure 5A



Figure 5B

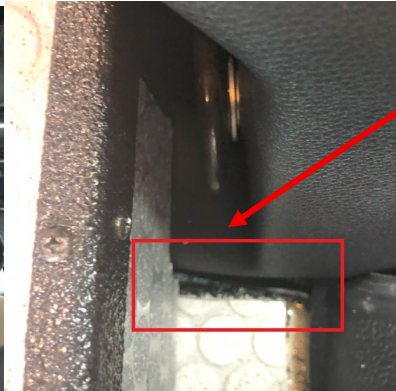


Figure 5C



Figure 5D

- Plug the communication cable into the appropriate CAN inputs on the Victron Cerbo as shown in Figure 6A & 6B.
- Plug the crossover cable, part 5176915, into the Victron Cerbo as shown in Figure 6A & 6B. NOTE: Ensure the appropriate ports are used. The VE.CAN ports are in the image below. DO NOT use the one next to the inverter cable.

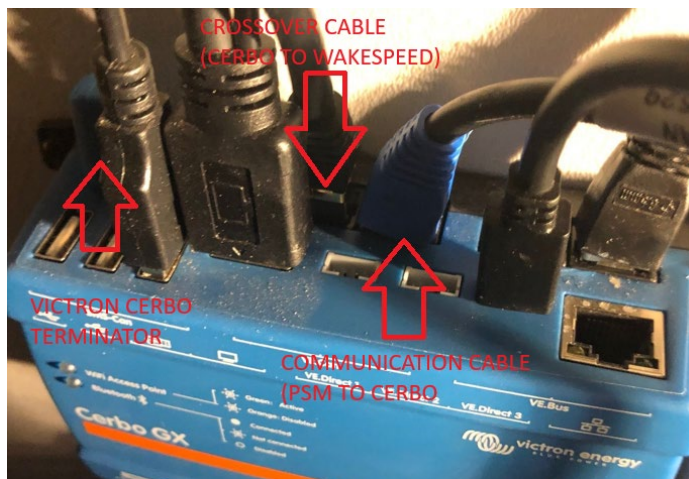


Figure 6A

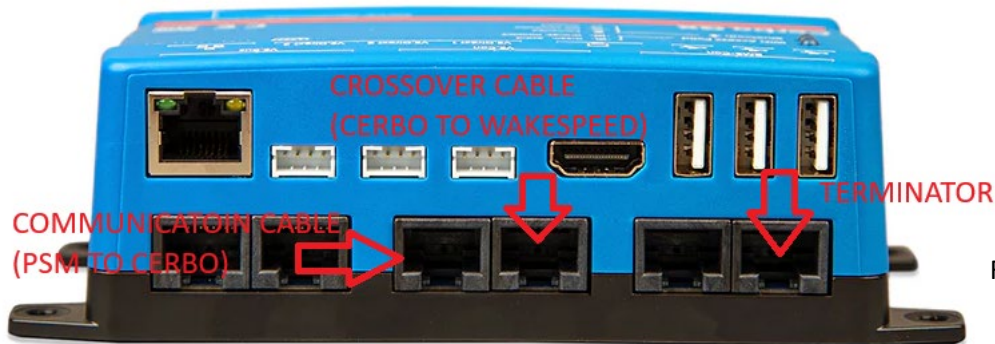


Figure 6B

- Connect the 5052580 CAT6 cable to the 5176915 crossover cable using the 5033288 CAT6 connector if the crossover cable is not long enough to reach the Wakespeed in Step 13.

11. Remove screws from the shower access panel, shown in figure 7, to gain access to the underside of the shower to route cable. NOTE: shower bottom is fiberglass, gloves may be needed while routing cable.



Figure 7

12. Route the crossover cable, part 5176915 using the fiberglass cable rod from the Cerbo under the shower to the Wakespeed regulator on the driver's side rear of the coach.

13. Remove the access panel in figure 8 the image below by removing the 4 plastic thumb screws to access the Wakespeed regulator.



Figure 8

14. Plug the crossover cable into the top CANbus port and the terminator into bottom CANbus port as shown in Figure 9.

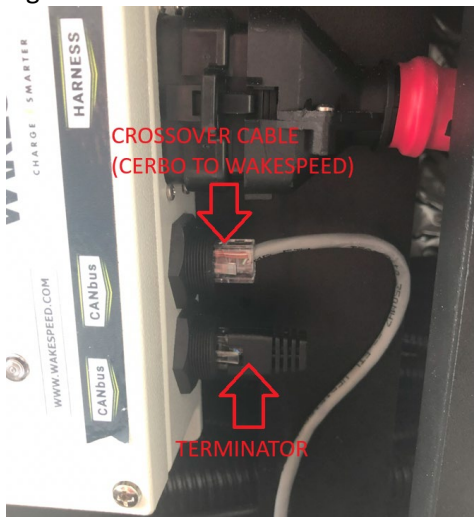


Figure 9

- Remove the Phillips head screws located on the Wakespeed regulator, see figure 10A, and remove the top cover to expose the internal circuit board, figure 10B. Insert the corresponding plug of the cable into the socket located on the circuit board of the Wakespeed controller, see Figure 10B. and plug the corresponding plug of the same cord into the socket at the bottom/charging port of the Android enabled device.



Figure 10A



Figure 10B

- Open Wakespeed app on the android device. If it's not installed yet, install the Wakespeed app (see Figure 11) on the device by searching for it in the Google Play store and selecting install.

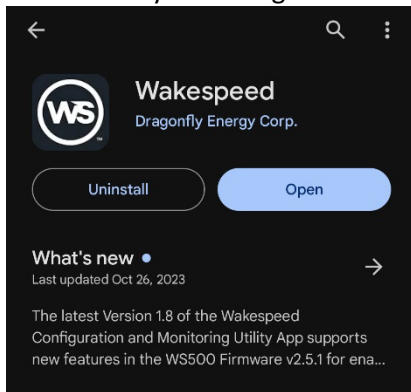


Figure 11

- Input the settings shown below in Figures 12A, 12B, 12C, 12D, 12E, 12F & 12G.

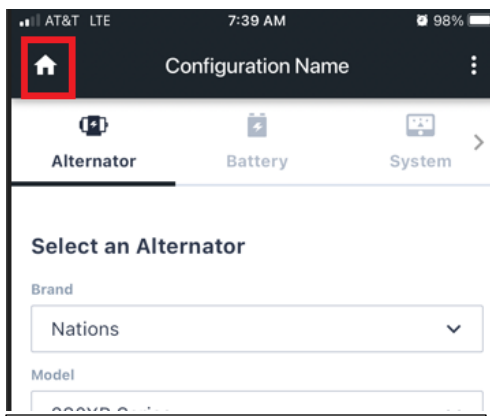


Figure 12A – Select Home button

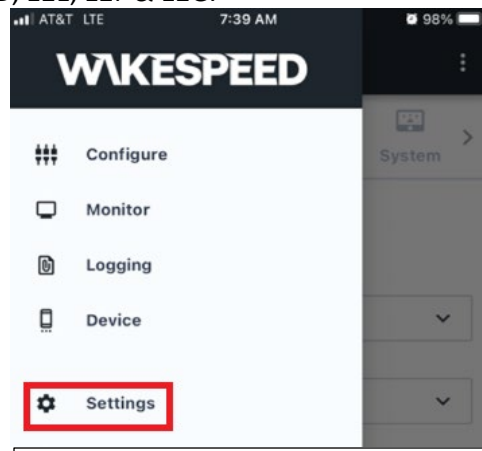


Figure 12B – Select Settings

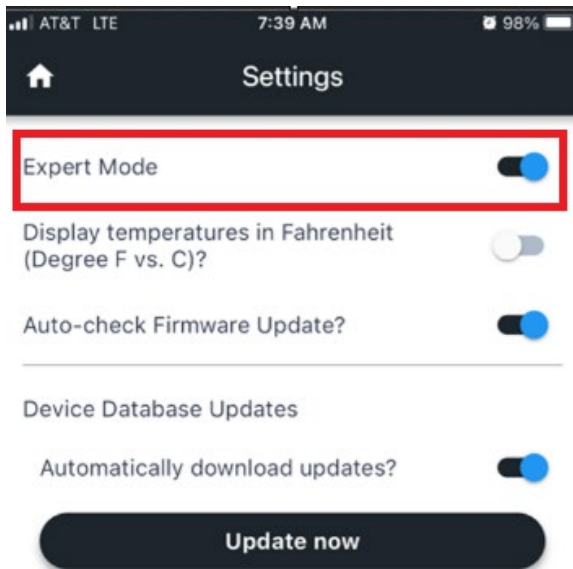


Figure 12C – Turn on 'Expert Mode'

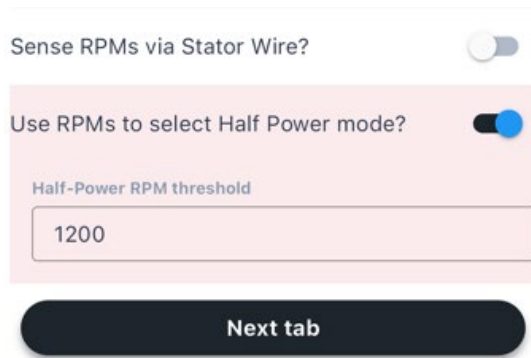


Figure 12D - Toggle OFF "Sense RPMs via Stator Wire"
 Leave ON "Use RPMs to select Half Power Mode"
 Ensure threshold remains at 1200 RPMs

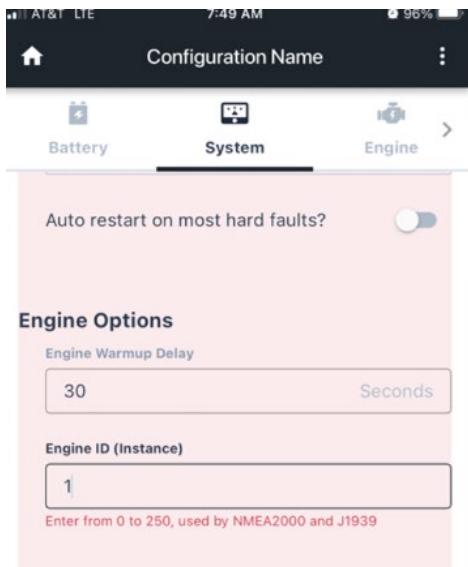


Figure 12E – Navigate to System Tab
 Engine Options – set Engine ID to 1

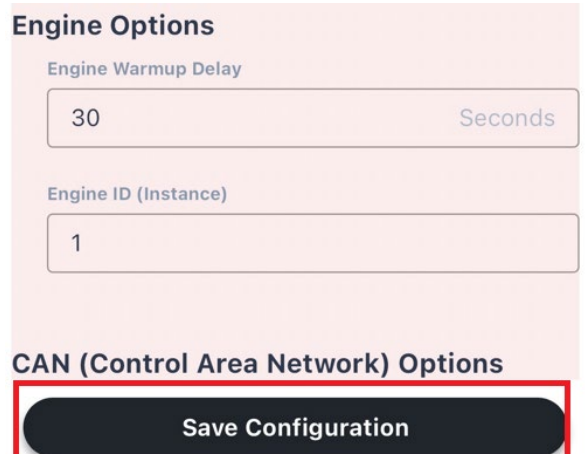


Figure 12F –Once complete, select "Save Configuration"

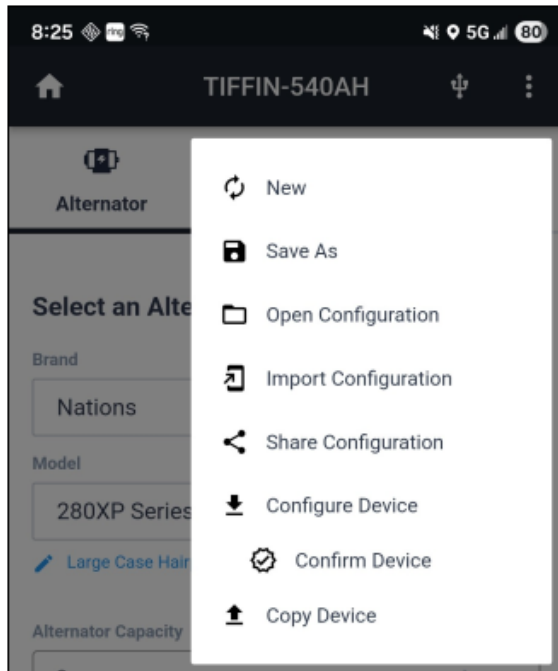


Figure 12G – Select “three dot” drop down menu.
 Select “Configure Device” and allow progress bar to finalize to 100%
 Select Confirm device.

18. 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 19 & 20 must be completed at a Mercedes Benz Authorized Service Center

19. 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=j55miqsnngjszwxws1dp2hibw&st=5kfb1s45&dl=0

20. Clear engine codes related to the removing and reinstalling of the driver’s seat.

21. To ensure the update is functioning as intended, follow the below steps.

- A. Connect USB-B to USB-C wire to WakeSpeed Regulator and Android device.
- B. Access WakeSpeed app on Android device while connected to regulator.
- C. In the upper left corner of the app, access the menu marked with an image of a house.
- D. Select “Monitor” from the list of options.
- E. Scroll to the bottom of the “Monitor” screen where the “Utilization” bar is located.
- F. Start the engine and ensure that “Utilization” remains at zero.
- G. Rev the engine until the RPMs exceed 1200.
- H. Ensure that the “Utilization” begins to rise.
- I. Reduce the RPMs to Idle and ensure that “Utilization” returns to zero.
- J. Disconnect the cable and reinstall the top of the WakeSpeed Regulator.
- K. Reinstall decorative vent located on plastic cover.