

Recall Repair Instructions

NHTSA Recall # 25V-481

Tiffin Motorhomes Recall # TIF-145

Models involved: 2025 GH2 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, 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:

Torque Wrench (w/ 30ft*lb setting)
Ratchet
T45 Torx
T55 Torx
15mm Socket
Wire Cutters/Side cutters
Flathead Screwdriver
Android OS device with Wakespeed App installed
USB-B to USB-C cable

Parts Needed:

5176949 Alternator with stator wire
5176915 Crossover Cable (Cerbo to Wakespeed)
5178005 Wakespeed Terminator
Shop supplies, 2 Butt connectors – Blue, 16-14ga
Electrical Tape
2 of 5178057 Victron Cerbo Terminator



5176949



5176915



5178005



5178057

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 existing secondary alternator from mount. Remove positive cable and wrap cable end with electrical tape to prevent any contact. Remove negative cable and then use wire cutters to remove blue wire. Remove ground cable. See Figure 2 for existing secondary alternator diagram.

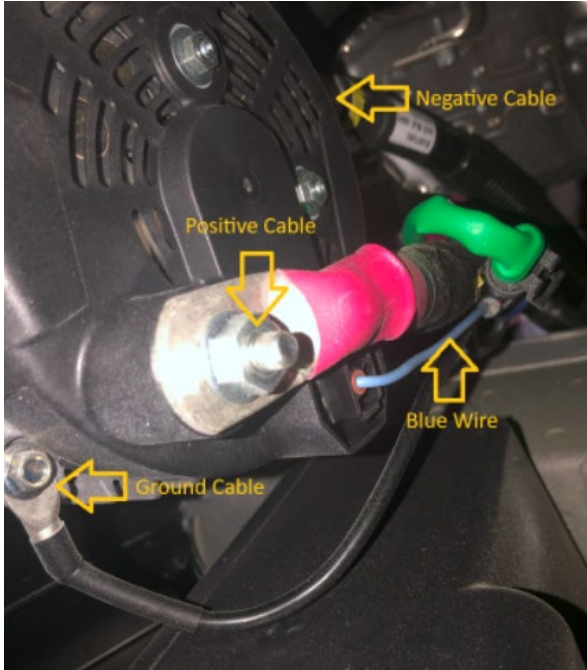


Figure 2

3. Install new secondary alternator with stator wire (5176949). Connect positive cable and torque to 18 ft-lbs. Connect negative cable and torque to 18 ft-lbs. Use a butt connector to connect blue wire. Locate yellow stator wire located in the Wakespeed harness and use butt connector to connect to yellow stator wire on alternator. Connect ground cable and torque to 30 ft-lbs. See Figure 3 for new secondary alternator diagram

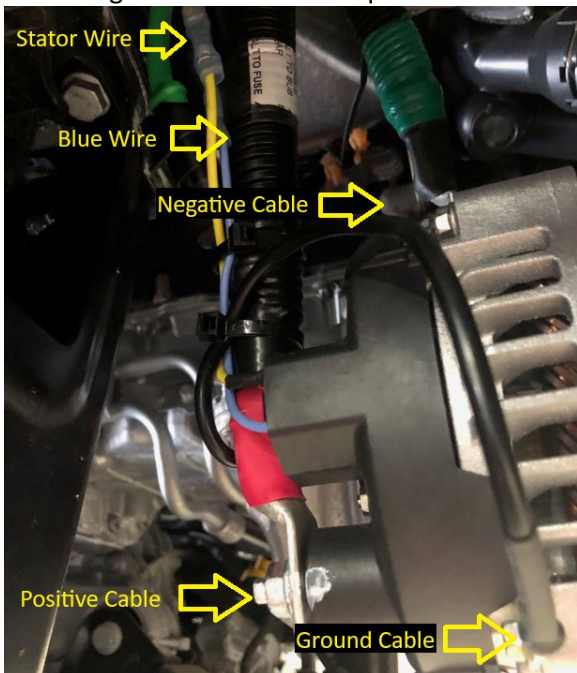


Figure 3

4. Locate the Victron Cerbo under the Adventure Bench, figure 4A. Remove the rear cushion, it is held on by Velcro. Remove the seat, it is held in place by 2 Southco latches. See figure 4A & 4B



Figure 4A



Figure 4B

5. Plug the crossover cable (5176915) into one of the CAN inputs on the Victron Cerbo. NOTE: Victron terminators may have been installed by THM during the production process. See figure 5A & 5B.

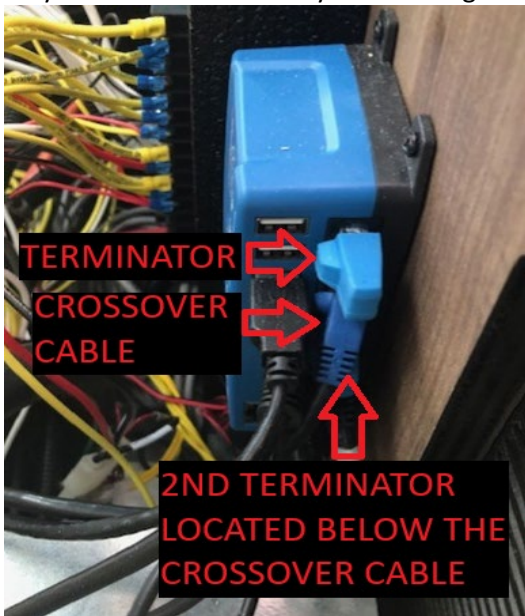


Figure 5A



Figure 5B

- Remove screws from the 2 access panels at the bottom of the shower. See Figure 6. NOTE: shower bottom is fiberglass, gloves may be needed while routing cable.

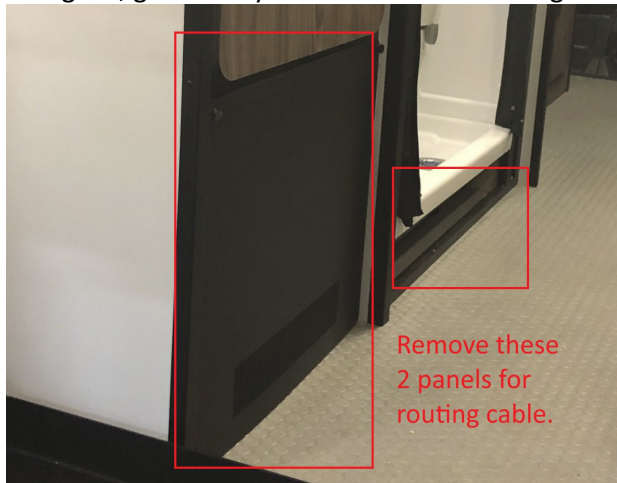


Figure 6

- Route cable from Cerbo to Wakespeed. Using a fiberglass cable rod (or equivalent), route the cable from the Cerbo, under the shower, under the pantry and to the Wakespeed regulator.
- To access the Wakespeed Regulator, remove the access panel in rear of coach shown in figure 7A by removing the 4 plastic thumb screws to remove panel. Wakespeed shown in figure 7B.

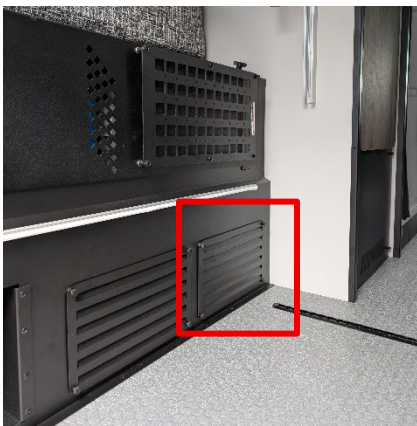


Figure 7A

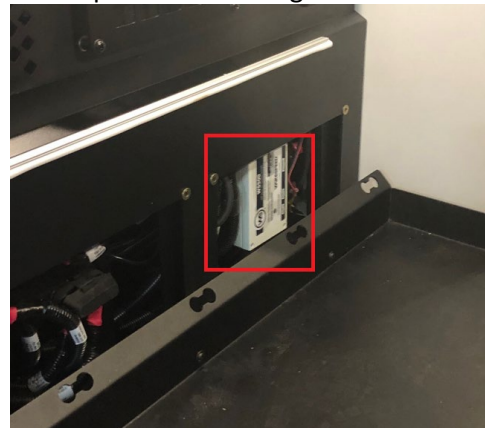


Figure 7B

- Connect cable to Wakespeed Regulator, plug cable into the top CANbus port and plug the terminator into bottom CANbus port on the Wakespeed unit as shown in Figure 8.



Figure 8

- Remove the Phillips head screws located on the Wakespeed regulator and remove the top cover to expose the internal circuit board, figure 9A. Insert the corresponding plug of the cable into the socket located on the circuit board of the Wakespeed controller (see Figure 9B) and plug the corresponding plug of the same cord into the socket at the bottom of the Android enabled device (charging port).



Figure 9A



Figure 9B

- Open Wakespeed app on the android device. If it's not installed yet, install the Wakespeed app (see Figure 10) on the device by searching for it in the Google Play store and selecting install.

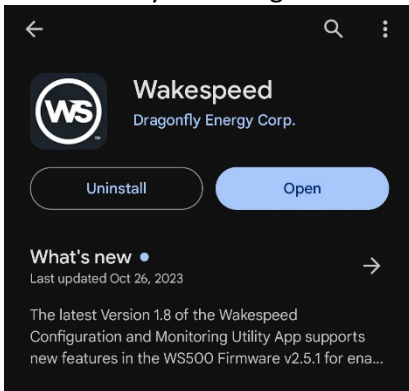


Figure 10

- Input the settings shown below in Figures 11A, 11B, 11C, 11D, 11E, 11F & 11G.

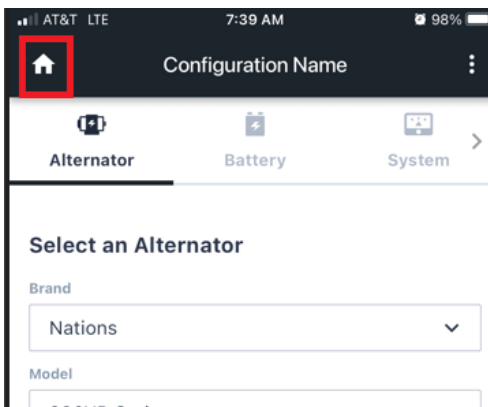


Figure 11A – Select Home button

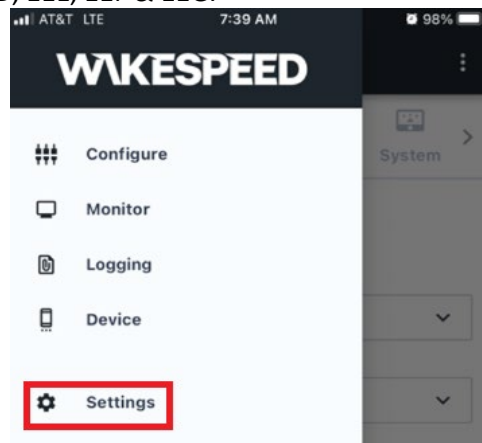


Figure 11B – Select Settings



Figure 11C – Turn on ‘Expert Mode’

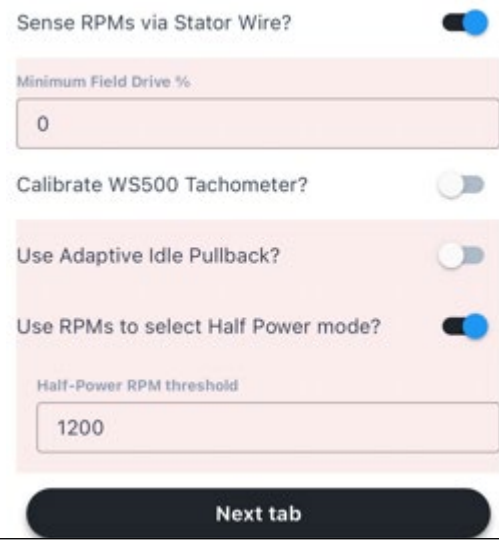


Figure 11D - Toggle ON “Sense RPMs via Stator Wire”
 Leave ON “Use RPMs to select Half Power Mode”
 Ensure threshold remains at 1200 RPMs

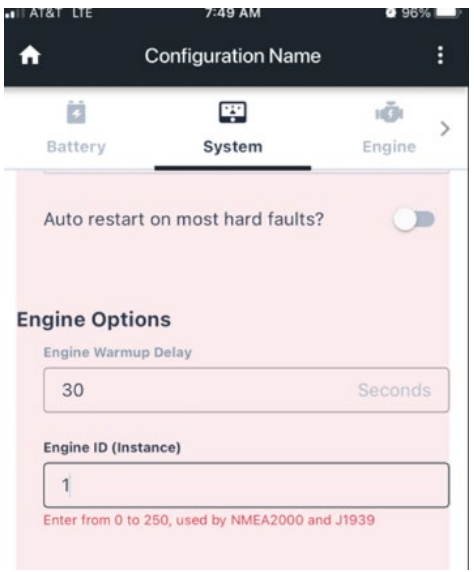


Figure 11E – Navigate to System Tab
 Engine Options – set Engine ID to 1



Figure 11F –Once complete, select “Save Configuration”

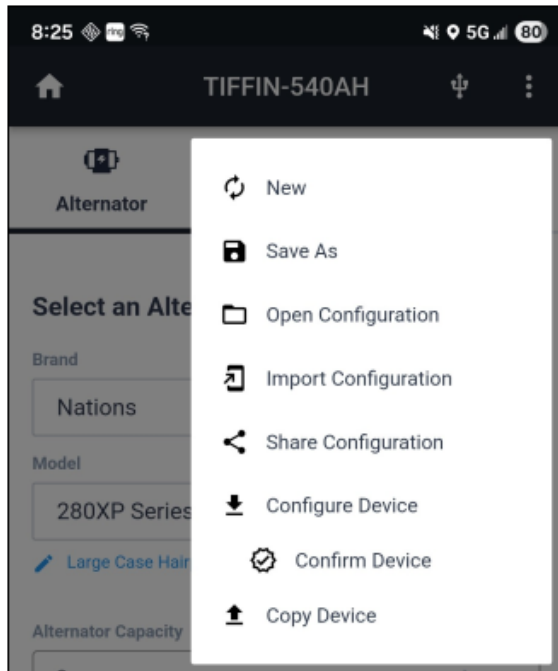


Figure 11G – Select “three dot” drop down menu. Select “Configure Device” and allow progress bar to finalize to 100% Select Confirm device.

13. Reassemble all removed components. Reinstall any removed trim and access panels, being careful not to overtighten or strip the fasteners. Reconnect chassis battery cable and the access panel.

NOTE: steps 14 must be completed at a Mercedes Benz Authorized Service Center

14. 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=j55miqsnqgjszw_xws1dp2hibw&st=5kfb1s45&dl=0

15. 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.