



TIFFIN

MOTORHOMES

105 2nd Street NW
Red Bay, Alabama 35582

SB-56

Merge solenoid wiring correction, 2018 Allegro Buses and Phaetons

January 25, 2018

Dear Tiffin Owner,

It has come to our attention that on some 2018 Allegro Bus and Phaeton motorhomes, there is the possibility that the merge solenoid may not connect the chassis batteries to the house batteries when the engine is running. This would occur when the house battery voltage is too low. This could cause the house batteries not to charge while the engine is running and the house battery voltage is low.

We have included the parts and instructions need to repair this wiring. Please do not attempt to do this yourself. Please take this letter, the enclosed parts and instruction kit, and the completion form to a reputable dealer *or* service center *of your choice* to have this work done. We are allowing 30 minutes for this repair to be completed.

If you have any questions about this notice, please contact the Tiffin warranty department at 256-356-8661 extension 2176 or email jeannie.madden@tiffinmotorhomes.com

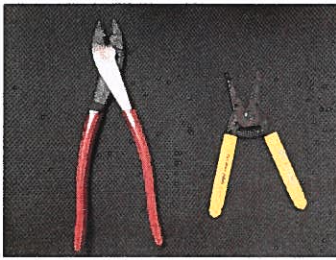
We regret any inconvenience this action may cause, but feel certain you understand our interest in the continued use and enjoyment of your motorhome.

Thank you,

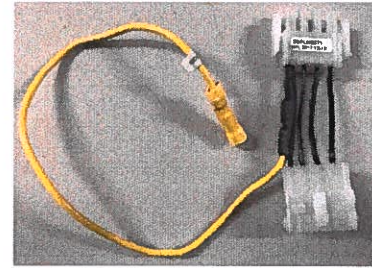
Tiffin Motorhomes, Inc.
Enclosures

MERGE HARNESS INSTALLATION GUIDE

This is a step-by-step guide for installing the Merge Harness in your Tiffin Motorhome. You will need a Merge Harness, pair of wire strippers and a butt splice crimper to complete this installation.



Wire crimper and wire stripper



Merge Harness Sample

STEP 1. Access the bay with the House Battery Disconnect and Inverter Rotary switches. Located on the ceiling of the basement within that bay is the location where this update will be performed. (IMAGE. A)

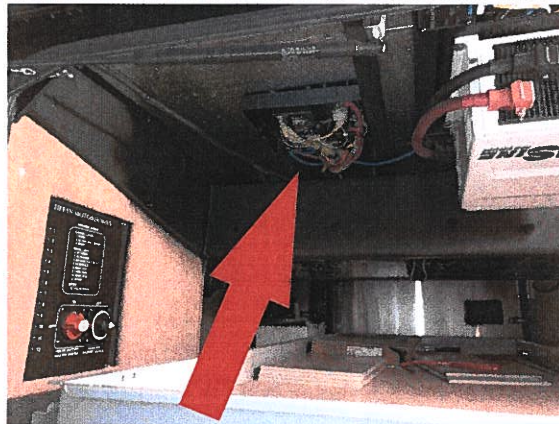
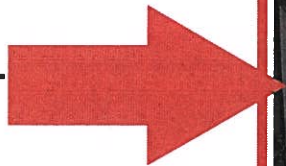


IMAGE: A

STEP 2. You will want to get into a position that will provide a good view of the area. Your view should resemble that of this picture. Please become familiar with the names and location of the modules below. (IMAGE. B)

**BATTERY
DISCONNECT
MODULE**



**G8
MODULE**

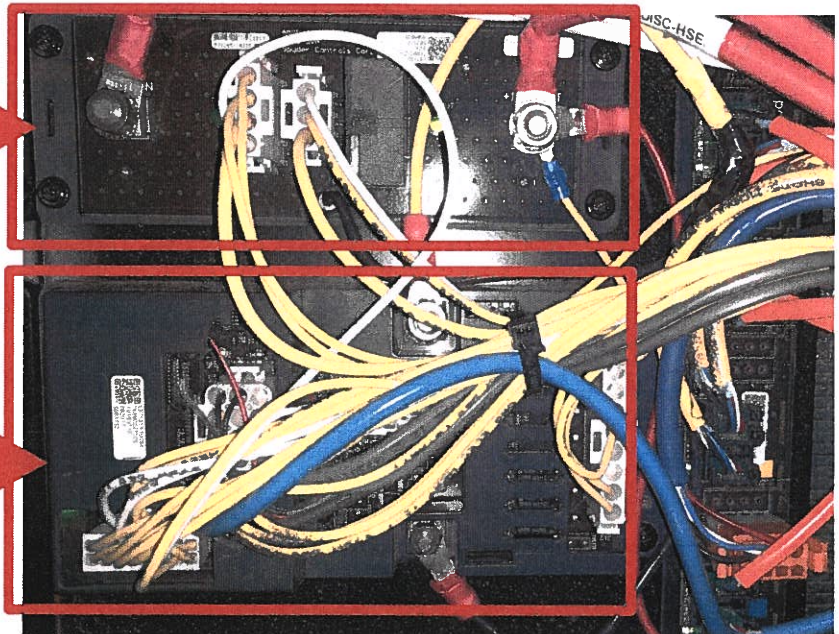
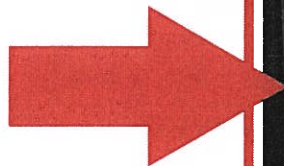
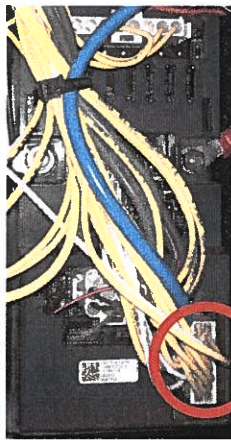


IMAGE: B

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STEP 3. Locate the Ignition (IGN) wire. The Ignition wire to locate is wired to the G8, connector J10, Pin 2. Please see IMAGE. C for reference.



G8 MODULE

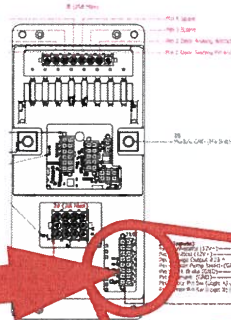
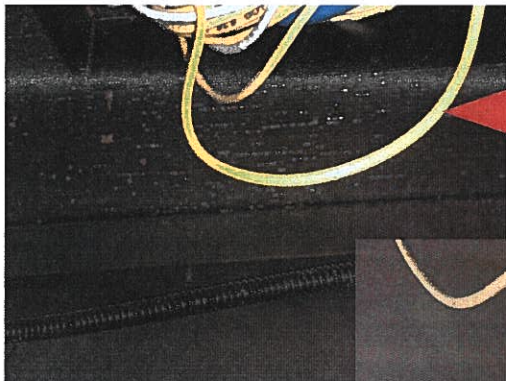


IMAGE. C

J10 (Inputs)

Pin 2 Ignition (12V+)	Pin 9 CHS Voltage (12V+)
Pin 4 Water Pump Switch (GND)	Pin 10 House Disconnect Sense (12V+)
Pin 5 Park Brake (GND)	Pin 11 Not Available
Pin 6 Trimark (GND)	Pin 12 Not Available
Pin 7 Door Pin Sw (Logic A) (GND)	Pin 13 FR P/S Slide EXT (12V+)
Pin 8 Door Pin Sw (Logic B) (GND)	Pin 14 FR P/S Slide RET (12V+)
	Pin 15 FR D/S Slide EXT (12V+)
	Pin 16 FR D/S Slide RET (12V+)

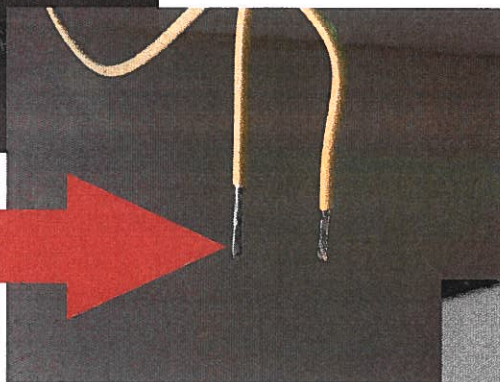
STEP 3. After locating the IGN wire, cut through the wire and strip away .5" of insulation. Twist the two ends of the IGN wire together. Please see IMAGE. D for reference.



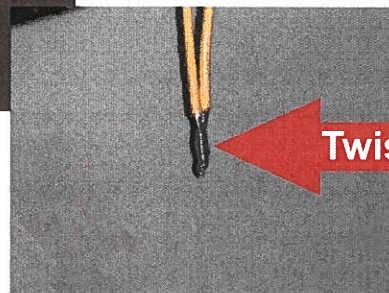
IGN Wire (CUT HERE)

IMAGE. D

**Cut wire,
then strip
.5"**



Twist



MERGE HARNESS INSTALLATION GUIDE

STEP 5. Insert the pair of twisted IGN wires into the butt splice of the Merge Harness and crimp it. Refer to **IMAGE. E**

TO G8 MODULE, CONNECTOR J10, PIN 2  FROM IGN 

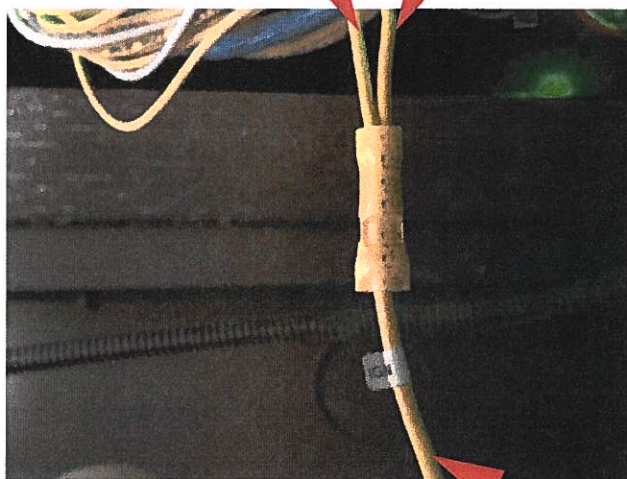
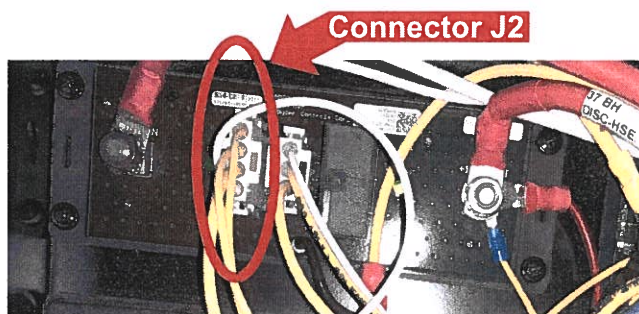


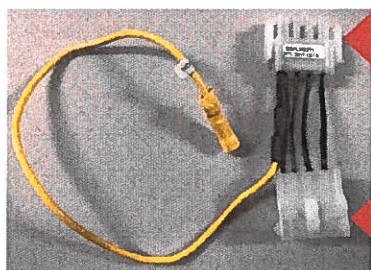
IMAGE. E

STEP 6. Locate Connector J2 on the Battery Disconnect Board. Remove the 4-Position connector from J2 and replace with the male end of the Merge Harness. Then, plug the connector that was originally in J2, into the female end of the Merge Harness. Please refer to **IMAGE. F** (Final installation: **IMAGE. G**)

A. Connector J2. Remove the 4-position connector with yellow wires from the Battery Disconnect Board.



B. Plug the male end of the Merge Harness into the header on the Battery Disconnect Board which you removed the 4-position connector from.



C. Plug the male connector with the yellow wires into the female end of the Merge Harness.

IMAGE. F

MERGE HARNESS INSTALLED

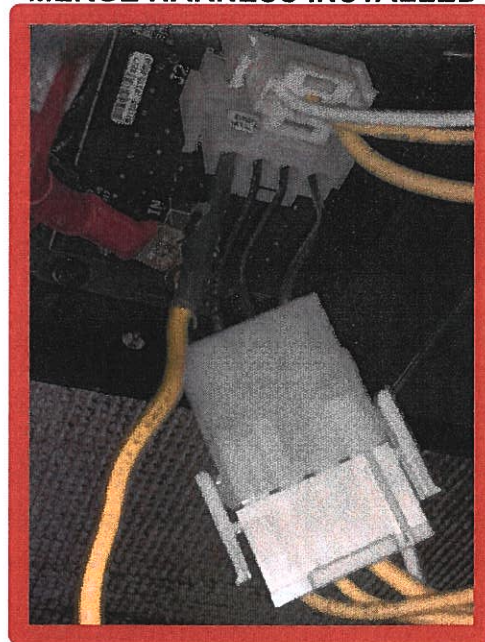


IMAGE. G