

## **Important Safety Recall**

**Recall Number: 23V-327/Transport Canada 2023-356**

**Subject: Atlas E1 BAT (Battery) Circuit Connection**

A discrepancy was discovered by Airstream in the “Bat” Circuit, revealing an under-gauged wire. The solution to correcting the issue is to remove the over-amperage items from the wire. Those items include: the step module, solar controller, battery minder, and the Timberline furnace/water heater system.

### **Operation codes & Labor rates:**

**TCSBR8915100 - NHTSA 23V327- Atlas E1 BAT (Battery) Circuit Connection = 1.00 Hrs.**

### **RANGE OF VEHICLES INVOLVED:**

2023 Airstream Atlas E1 built between **January 24, 2023 – April 28, 2023**

**Serial Number Range: 310599-311081**

**Note:** Because our VINs do not run in a contiguous series, there will be units in the VIN range which will not be affected by this Service Bulletin. (A detailed list of the affected (**41**) units is available on AIRHUB)

**WARNING:** Before working on the Touring Coach, make sure the coach is turned off and the keys are removed from the vehicle. Removing the keys will prevent any accidental starting of the vehicle engine while the seat is removed. If the coach is started with the safety restraint systems disconnected, the ensuing error codes can only be cleared by a Mercedes-Benz dealer.

### **Tools Needed:**

E12 Socket  
3” 3/8 Extension  
3/8 Impact Driver  
1/4 Impact Driver with Phillips Bit  
T20 Bit  
T25 Bit  
13mm Socket  
Wire Strippers  
Crimpers

### **Materials Needed:**

12-Guage Red Wire (32”, 170”, 203”)  
5/16 Ring Terminal  
20-Amp Fuse Holder  
20-Amp Fuse  
5-Amp Fuse  
10 Zip Ties  
5-Spot Wago  
Yellow Butt Connectors

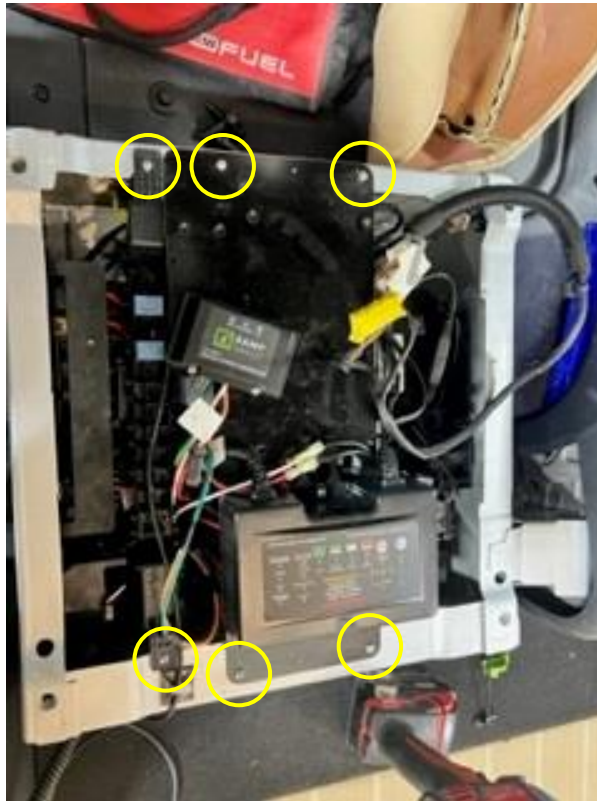
1. Begin by unscrewing the four E12 bolts from the driver's seat.



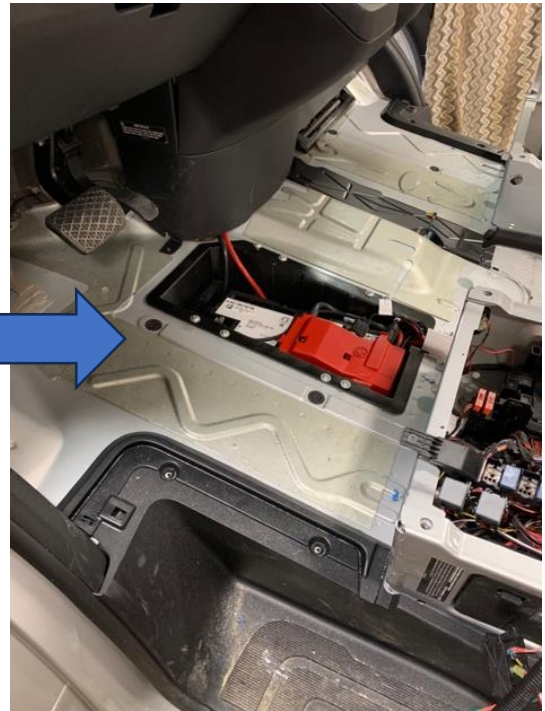
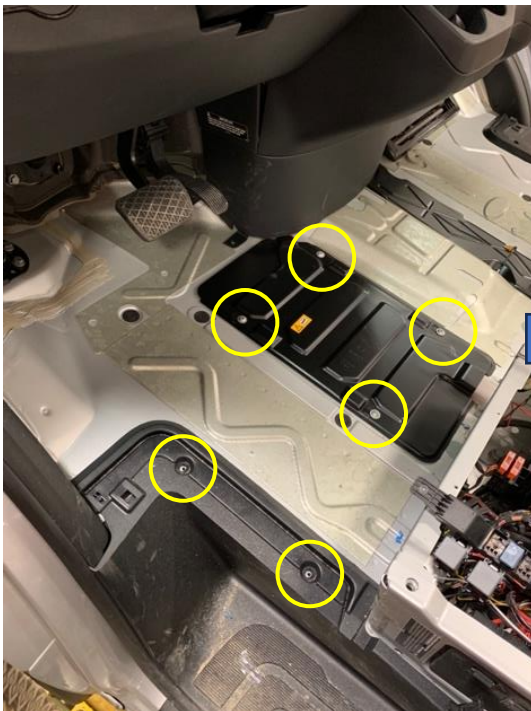
2. Disconnect the yellow air bag connector and white connector from the seat connections. Cut the zip ties securing the seat harness and carefully guide the harness through the pivot hole, located at the center of the seat base. The driver's seat should now be detached from the base and can safely be removed. Note, it is recommended that pictures be taken prior to cutting the ties to ensure the new wires are properly secured before reinstalling the seat.



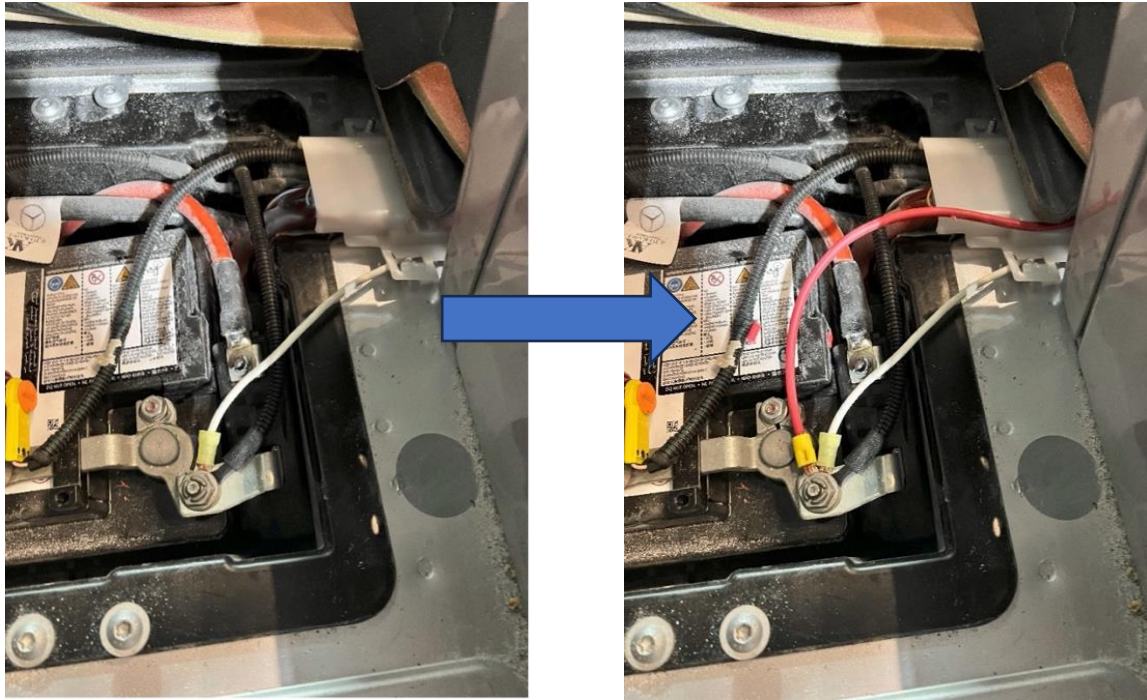
3. Remove the four Phillips self-tapping screws from the large seat base mount and the two screws from the relay mount bracket.



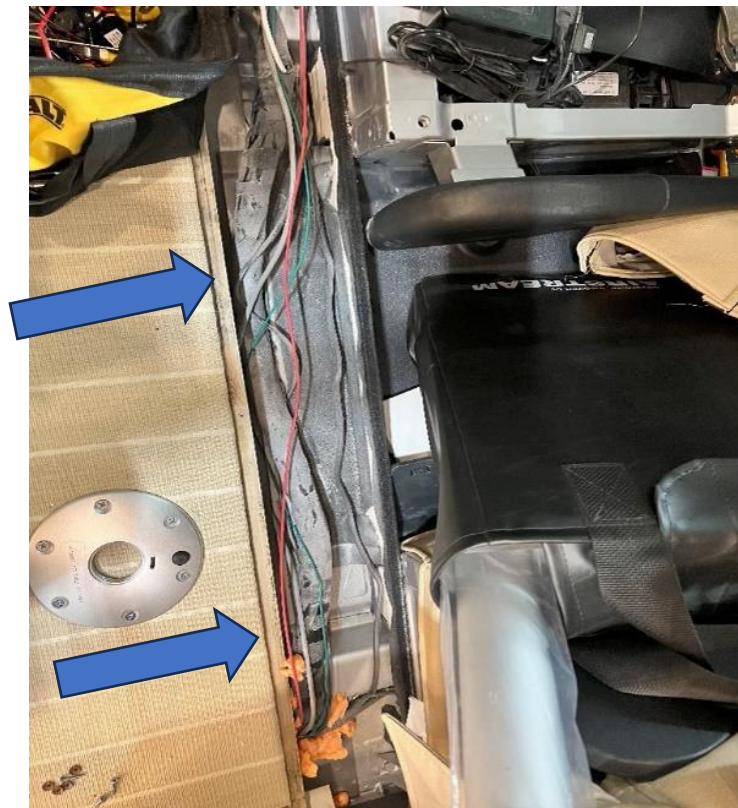
4. Next, remove the two T20 screws that secure the floor mat retaining panel. Pull the floor mat back to reveal the battery cover. Continue removing the four T25 screws to gain access to the battery terminals.



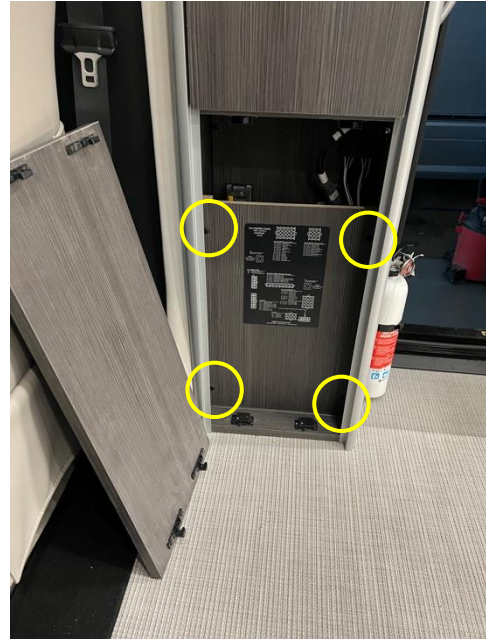
5. Install a new, 32" 12-gauge red wire to the positive terminal of the battery, using a 5/16 ring terminal. The nut on the battery terminal is 13mm. Note that there will already be a white wire (CBat), connected to the battery terminal.



6. Remove the floor closeout panel, located behind the driver and passenger seats, to gain access for running the wires for the step module and Timberline system.



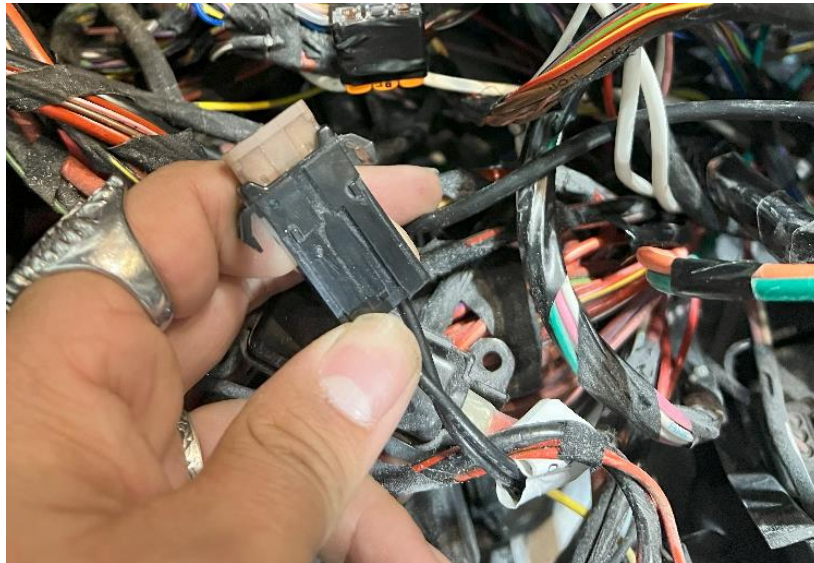
7. Behind the passenger's seat, remove the electrical cabinet door and the Firefly closeout panel. The Firefly panel is secured by four Phillips screws.



8. At the galley, remove the bottom drawer which is secured by a lock on each drawer slide. On the counter top, remove the trash can lid and trash can, to gain access to the top of the Timberline system.



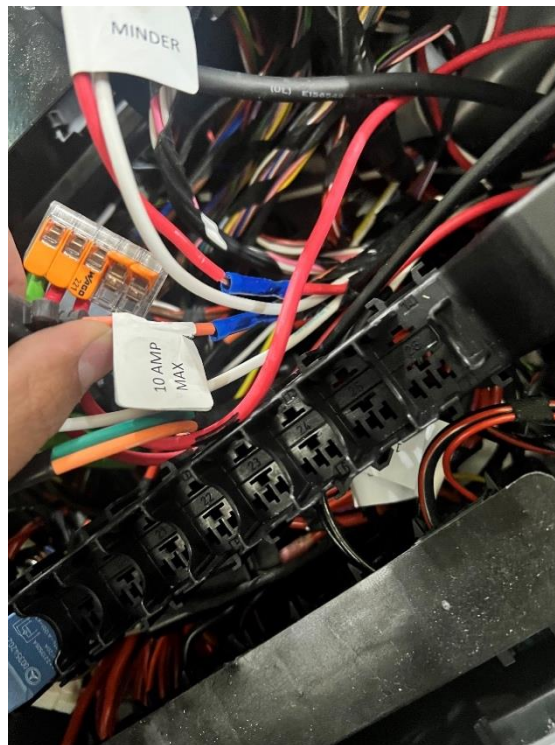
9. Back under the driver's seat, locate the inline fuse on the fuse panel that is labeled "20-amp." Replace the 20-amp fuse with a new 5-amp fuse. Make sure to replace the 20-amp label with a new 5-amp label as well.



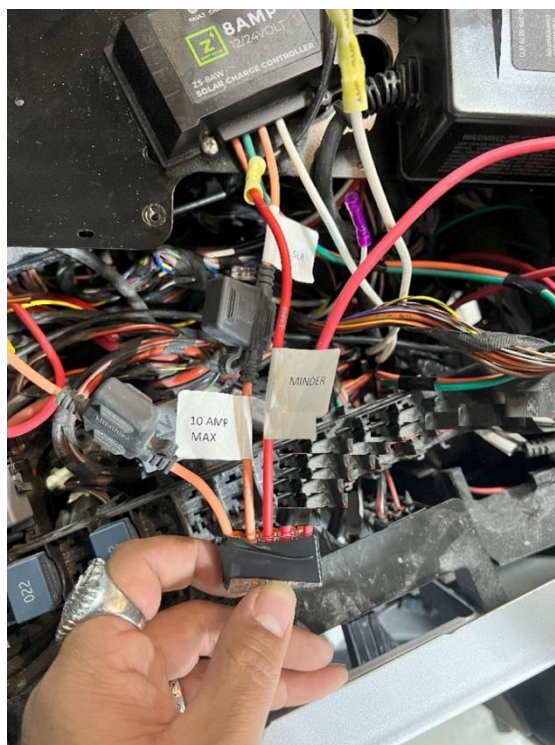
10. Route the new, 32" 12-gauge red wire, that was installed on the positive battery terminal, under the floor mat and through the hole in the driver's seat base. Add a new inline fuse holder to the 12-gauge red wire using a properly sized yellow butt connector. This inline fuse holder will be used later to house the 20-amp fuse, which was removed from the fuse panel. Terminate the 20-amp inline fuse wire into a 5-spot Wago connector. This Wago connector is where the new circuit will start for the step module, solar controller, battery minder, and the Timberline system.



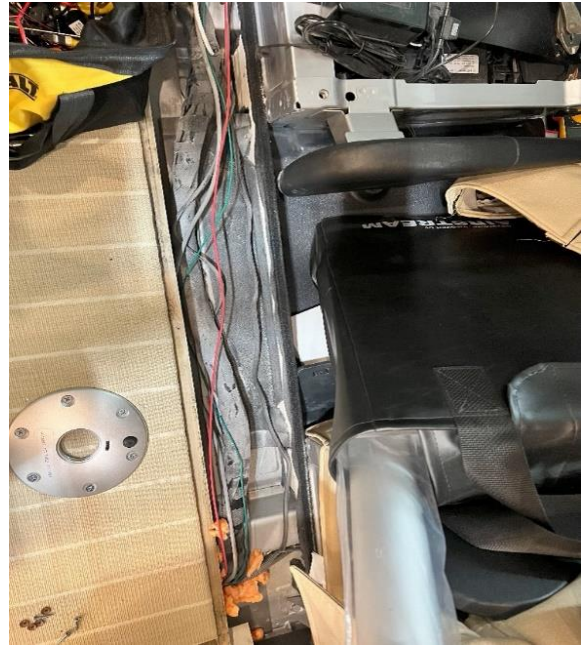
11. Locate the solar controller and battery minder connections under the driver's seat. The orange, solar controller wire, will have an inline fuse that will still be needed. Cut the solar controller and battery minder wires off the harness, leaving enough wire to connect both wires to the 5-spot Wago. Using butt connectors, cap the cut ends of the remaining wires on the harness.



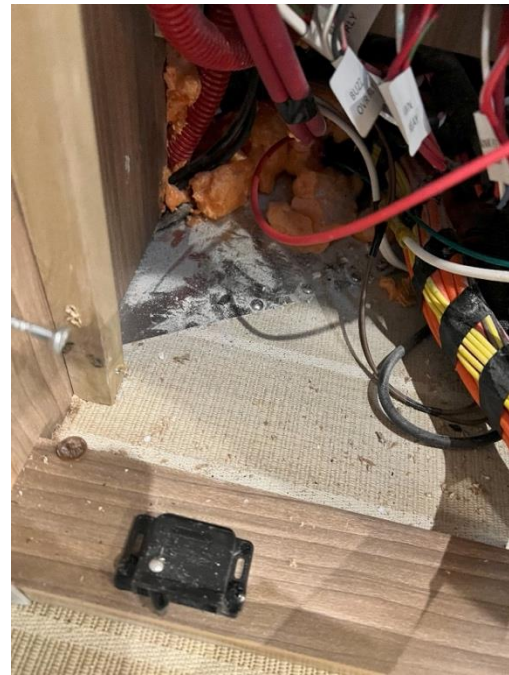
12. The 5-spot Wago connector should look like the image below. The step module and the Timberline system wires will still need to be routed and connected.



13. For the step module wire, a 170", 12-gauge red wire will be run out the back of the driver's seat base and down the floor closeout, towards the electrical cabinet.



14. The step module wire will follow the main harness trunk, through the floor, and re-enter underneath the electrical cabinet.

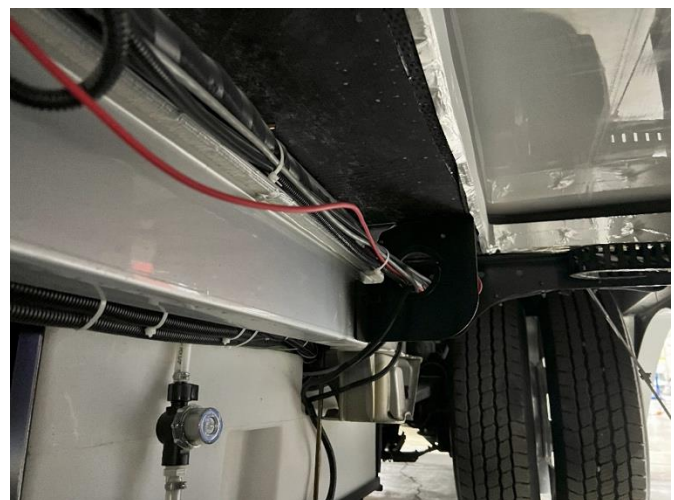




15. Inside the electrical cabinet, behind the Firefly closeout panel, locate the step module controller. Cut the big red wire off the harness connector and use a properly sized butt connector to connect it to the new 12-gauge red wire. Connect the new wire, under the driver's seat, to the 5-spot Wago. **Note, make sure to cap the cut red wire, still in the harness, using a properly sized butt connector.**



16. The last wire will run to the Timberline three pin connector, located under the galley. Run a 203", 12-gauge red wire, starting at the driver's seat base. The wire will run through the hole in the back of the seat base, through the floor, and follow the main harness along the outriggers.



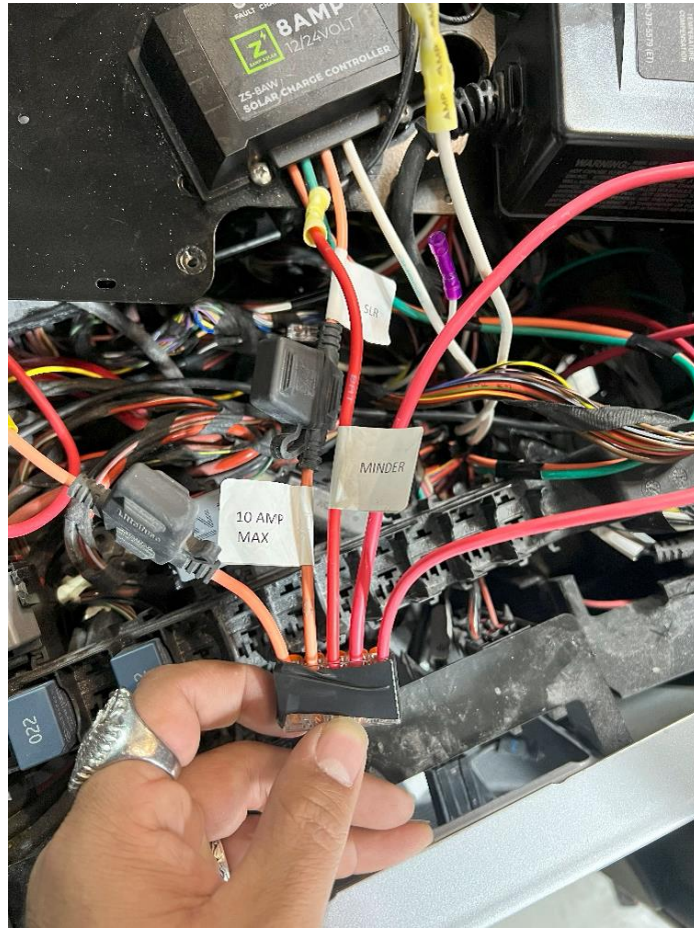
17. The wire will run past the rear axle and over the frame to the area below the galley. There will be four heater hoses in the location of where the wire will enter through the chassis. Add zip ties to secure the wire to the main harness below the vehicle. The wire will pass through the floor and be fished up to the top of the Timberline system.



18. Through the trash can hole in the counter top, locate the main three-pin connector, next to the Timberline system. Cut the red wire from the harness and use a properly sized butt connector to connect it to the new 12-gauge wire. Connect the new wire, under the driver's seat, to the 5-spot Wago. **Note, make sure to cap the cut red wire, still in the harness, using a properly sized butt connector.**



19. When the new wiring is complete, the 5-spot Wago connector should be wired as seen in the image below.



20. Under the driver's seat, install a new 20-amp fuse into the inline fuse holder that was added. Make sure all the wiring is tucked inside the seat pedestal before reinstalling the seat base mount and the relay mount bracket.
21. Carefully guide the seat harness back through the hole in the seat base. Reconnect the yellow air bag connector and white connector to the seat connections. Resecure the harness using zip ties (refer to pictures taken before the zip ties were cut).
22. Reinstall the four E12 bolts to the driver's seat. Each bolt must be torqued to 29 ft lbs.
23. With the driver's seat mounted, reinstall the screws to the battery terminal cover and the floor mat retaining panel. Install the floor closeout panel, electrical cabinet door, and the galley drawer.
24. Once completed, test the systems, and verify that the step is working, the Timberline furnace/water heater is operational, and that the solar charger and battery minder have no faults.