STRICK TRAILERS, LLC
301 NORTH POLK STREET
MONROE, INDIANA 46772
260-692-6121

Power Inverter Conduit Relocation

Purpose

The purpose of this document is to guide a qualified technician in assessing select Model Year 2024 Stick 53' vans equipped with the Purkeys Trailer Auxiliary Power System (TAPS) for the presence of a potential issue with water inside the power inverter conduit, as well as the necessary steps to correct the issue. **For any additional questions regarding this process, please contact Strick's Warranty Department via email at strickwarranty@stricktrailers.com or via phone at (844)319-4537.**

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Tools Needed

- 3/8” Drill bit with stop collar (Strick Provided, See figure 1)
- 5/16” wrench or nut driver
- 7/16” wrench or nut driver
- 9/16” wrench
- Towel
- Tube of Caulk
- Multimeter

Figure 1

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Part 1: Take Pictures and Check Power Switch

1) Take a picture of the trailer VIN tag to document which trailer is being repaired. (see figure 2)

2) Locate power switch on curbside of the trailer at the battery box. Ensure the switch is in the off position (vertical). (see figure 3)

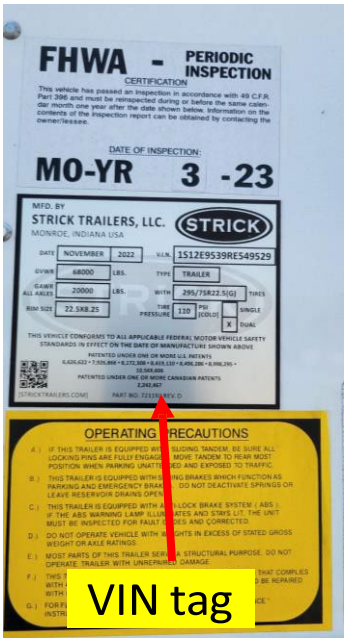

Figure 2

Figure 3

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Part 1: Remove Inverter Ground

1) Locate the battery box on curbside of the trailer and undo the rubber latches to gain access to the batteries. (see figure 4)

2) Once inside the battery box, use the 9/16" wrench to unbolt the 1/0 black inverter negative wire that leads to the inverter box. (see figure 5 and 6)

3) Using the multimeter check the voltage across the inverter positive and negative wires to ensure the inverter system has no power going to it. (see figure 5)

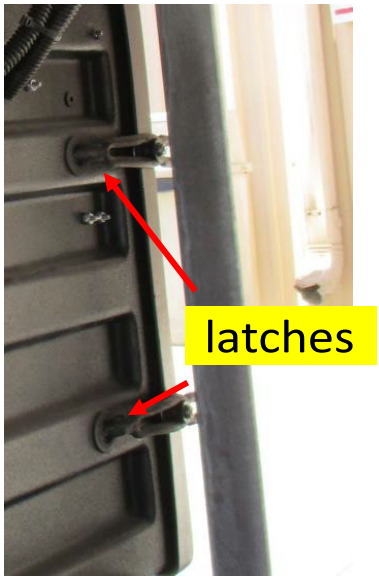

Figure 4

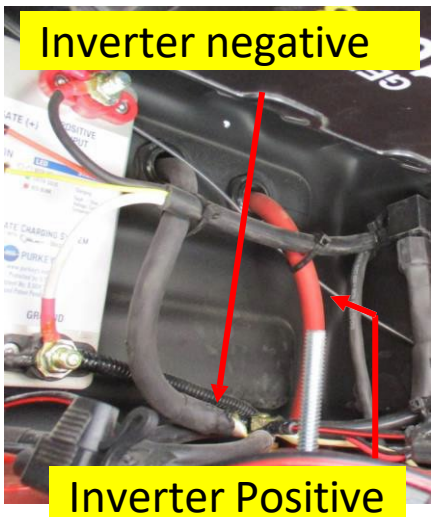

Figure 5

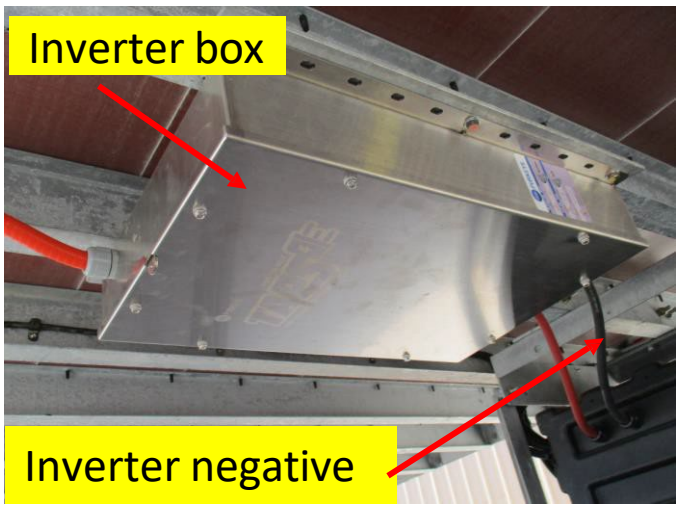

Figure 6

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Part 2: Open Inverter Box

1) Remove the 5/16” (potentially 7/16”) head bolts from the inverter box lid and check for any water. **Take pictures of the inside of the inverter box.** Use towel to clean any water. (see figure 7)

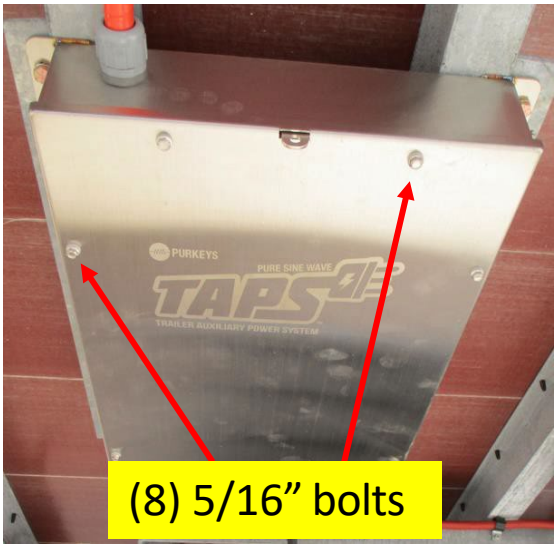

Figure 7

2) Apply a **generous** amount of caulk inside the conduit fitting to completely seal around the (3) wires. (see figure 8)

3) Close inverter box lid and reinstall the 5/16” (potentially 7/16”) bolts shown in figure 7.

Figure 8

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Part 3: Drill Drain Holes in Conduit

NOTICE

Do not use power tools. Use of power tool can cause damage to wiring.

1) **<u>Using the Strick provided hand drilling tool</u>**, drill a 3/8” hole in the **bottom** of the orange conduit approximately 3” - 4” from the inverter box. Drill between the ribs to avoid the internal conduit structure as shown. Remove any excess material from the hole. (see figure 9)

Figure 9

2) **<u>Using the Strick provided hand tool</u>**, drill a second hole in the **bottom** of the orange conduit coming out of rear roadside corner post. This hole should be in the lowest point of the conduit’s curve. Remove any material from the hole. (see figure 10)

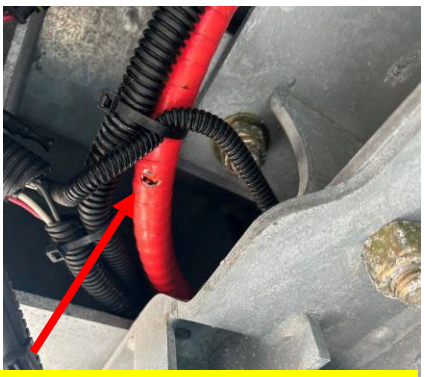

Figure 10

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Part 4: Reinstall Inverter Ground

1) Use the 9/16” wrench to bolt the 1/0 black inverter negative wire that leads to the inverter box. (see figure 11 and 12)

2) Flip power switch to the “1” position and check status light on the side of the inverter box. Read status sticker to ensure correct light is illuminated. (see figure 12)

3) Send the vin tag and inverter box pictures to Strick warranty.

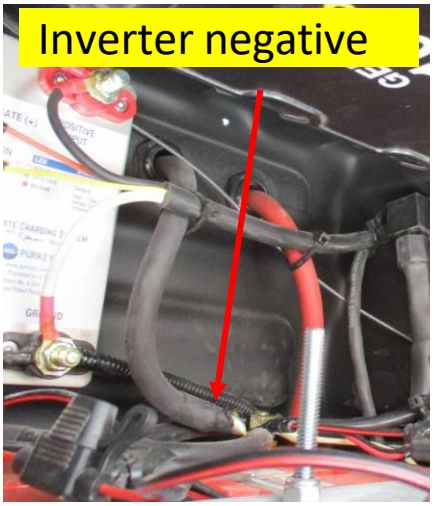

Figure 11

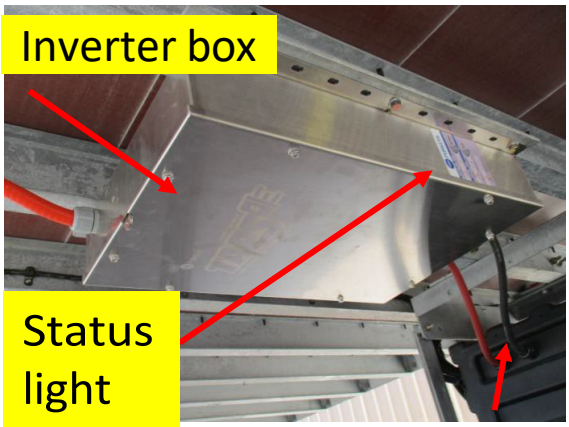

Figure 12

This completes the conduit water drainage. For any additional questions regarding this process, please contact Strick’s Warranty Department via email at strickwarranty@stricktrailers.com or via phone at (844)319-4537.