



# FLEET CHECK

<b>ISSUE DATE:</b>	1/10/2023
<b>SERVICE BULLETIN SUBJECT:</b>	High-Voltage Battery Pack Inspection
<b>VINs or MODELS AFFECTED:</b>	Service Specified Buses
<b>COMPLETE BY:</b>	Next Service Opportunity
<b>SERVICE BULLETIN #:</b>	SC-23-3
<b>LABOR OPERATION CODE:</b>	HB46Z

**NOTICE!** It is expected that this process may require up to one hour per bus. Please schedule appropriately to minimize vehicle downtime.

## HIGH-VOLTAGE BATTERY PACK INSPECTION

### Description:

The procedure describes the process of inspection the High-Voltage Battery Pack.

## Tools/Parts Required:

### Tools and Supplies Required:

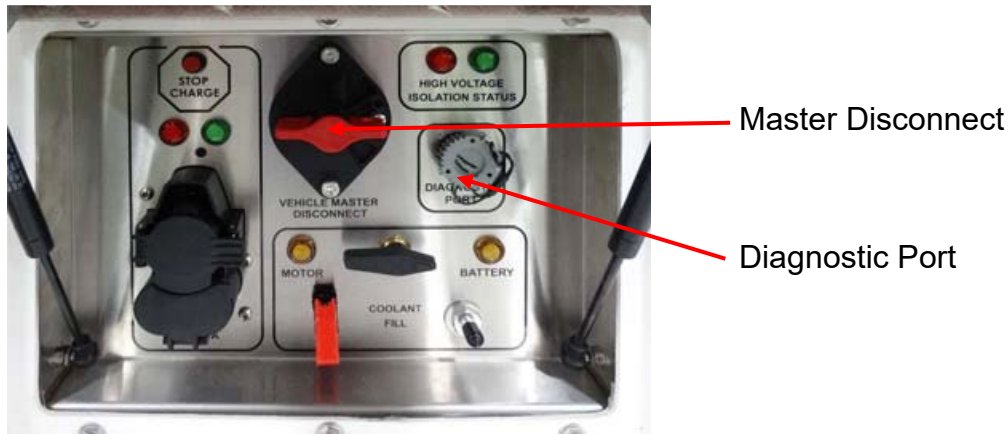
- Service Laptop with Proterra Diagnostics Tool
- Nexiq USB-Link 2
- Yellow MSD Dummy Cover
- Jameson Glow Rod
- Ratchet
- Calibrated Torque Wrench
- 17mm Allen Socket
- Vibra-Tite 42050 Thread Sealant
- Jameson Glow Rod

### Parts Required:

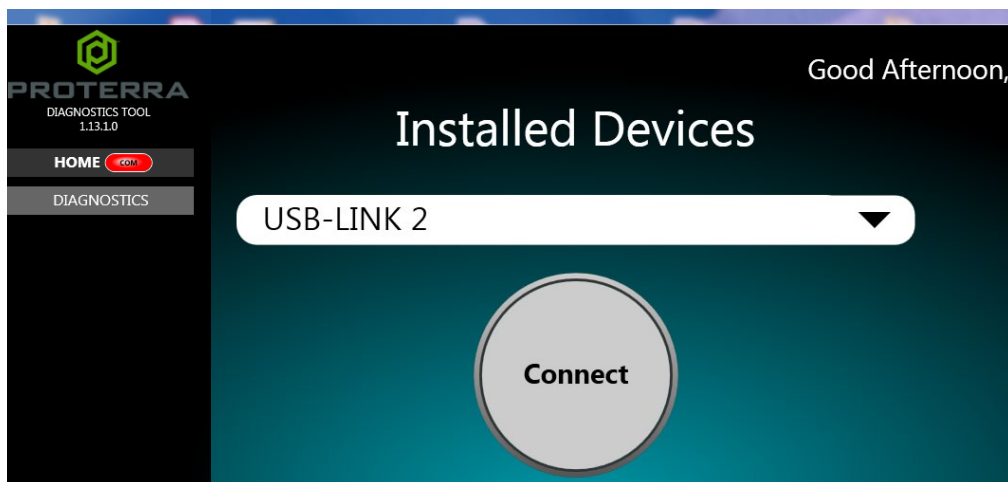
- |          |                |      |
|----------|----------------|------|
| • 022358 | DESICCANT,PACK | 1 EA |
| • 022385 | ASY,FLOOD PORT | 2 EA |

## Procedure:

1. Turn on the 12/24V rear “Vehicle Master Disconnect” located at the curbside rear charge port access panel.



2. Power on and login to the Proterra-Supplied laptop or a comparable PC that has the Proterra Diagnostics Tool software installed with a valid license.
3. Connect the Nexiq USB Link2 device to the laptop and to the OBDII Diagnostic Port shown in the previous illustration.
4. In the driver’s workplace, start the bus.
5. On the laptop, double-click on the Proterra Diagnostics Tool software icon to start the software.
6. On the Home tab, select the appropriate device from the drop down and click “Connect”.



- In the Proterra Diagnostic Tool, take screenshots of the battery packs and upload them to the work order in ServiceMax.

Moisture Detected

PACK 4	77°	78°	77°	76°	77°	77°	77°	77°	77°	77°	78°	77°	78°	78°	79°
	Humidity	Humidity	Humidity	Humidity	Humidity	Humidity	Humidity	Humidity	Humidity	Humidity	Humidity	Humidity	Humidity	Humidity	Humidity
	34%	32%	30%	29%	30%	29%	31%	29%	27%	27%	28%	30%	30%	31%	31%

- In the Proterra Diagnostic Tool, take screenshots of the isolation levels for all battery packs and upload them to the work order in ServiceMax.

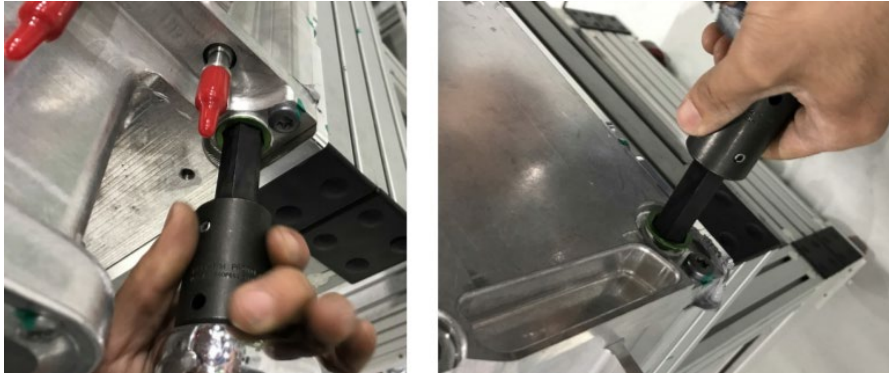


- Prior to inspecting a battery pack, verify that the physical location of the battery pack matches what is reported in the Proterra Diagnostic Tool by disconnecting the low-voltage harness from the pack in question. If the correct pack is disconnected, it will stop communicating with the Proterra Diagnostic Tool.
- Perform the Proterra Approved Lockout/Tagout procedure to make the vehicle safe for work.
- Remove the pack if that is required. Ensure that the pack is safely positioned on a suitable working surface or attached to a bus.
- Remove the MSD from the pack and replace it with a yellow MSD Dummy Cover.





17. Using a 17mm Allen Socket, remove the Coolant Flood Port **(022385)** that is easiest to access.



18. Carefully remove the Desiccant **(022358)** from the battery pack.
19. Inspect the white Tyvek bag for any signs of moisture staining or saturation. A transparent discoloration may indicate moisture egress into the pack. Tinted saturation that resembles the color of the coolant used in the vehicle may indicate a coolant leak that is internal to the battery pack.
20. Record the condition of the desiccant in the work order in ServiceMax.
21. Using a 17mm Allen Socket, remove the remaining Coolant Flood Port **(022385)** from the pack.
22. Attach the hooked end of the Jameson Glow Rod to a straight section of rod.
23. Attach the hook on the Jameson Glow Rod to the grommet on the Desiccant **(022358)**.



24. Push the Glow Rod into the opening in the pack. Carefully pull the rod and guide the Desiccant (022358) into the pack.



25. Tuck both ends of the Desiccant (022358) into the battery pack.



26. Apply Vibra-Tite 42050 Thread Sealant as needed to the new Coolant Flood Ports (022385).



27. Using a Calibrated Torque Wrench with a 17mm Allen Socket, install the new Coolant Flood Ports (022385) and torque them to 22 foot-pounds.



28. Reinstall the battery pack if it was removed from the vehicle.
29. Reconnect the low-voltage harness to the battery pack.
30. Remove the yellow MSD Dummy Cover from the battery pack and replace it with the original MSD.
31. Remove the Lockout/Tagout devices and power on the vehicle.
32. Using the Laptop and the Proterra Diagnostic Tool, verify that the battery pack is online and communicating.
33. Use the following procedure to reset the Replace Desiccant Timer.