

UPDATE

3rd Party Trend Power Battery Diagnostic Testing Procedures

Thank you for purchasing the Battery Diagnostic Tool 915800-003 to diagnose the in-tube battery in your Norco VLT bike. Please follow the procedures below.

You will need **TP-SMN Dealer 1.0.0** software located on LTP Dealer site/Resource Center/Forms & Guides to use the diagnostic tool (#915800-003 and harness accessories. Please download software to your desktop.

A) Bench Test Procedure.

- To Bench test battery drive unit must be dropped from bike frame, (**please refer to motor removal video in DLC*). All Gen1/Gen2 in-tube batteries and 360w extender battery can be bench tested.
- In order to access the in-tube battery terminal port, you must remove the silver alloy mounting bracket from bottom of battery (3 screws).

915800-003

Diagnostic tool with bench test harness



*Large end of harness plugs into battery terminals on next page

In-tube battery



Extender battery



B) Testing via Charge Port.

*Prior to Diagnosing Gen1 & Gen2 in-tube batteries, adapter harnesses below must be used.

*Testing through charge port confirms internal wiring is working correctly.

(Gen1) 7pin 915800-003-1



(Gen2) 11pin 915800-003-2



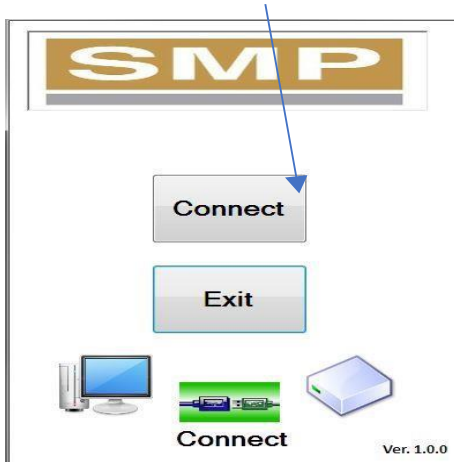
Harness plugs into diagnostic tool, then into charge port on bicycle.

Diagnostic procedure:

*Procedure below is the same for Bench test or Charge port testing.

- Plug USB from diagnostic tool into computer USB port.
- Open Downloaded software **TP-SMN Dealer 1.0.0**
- Open executable Software **TP-SMN Dealer 1.0.0**

- **Bench Testing:**
Battery must be initialized when using software... Green lights will turn on for 4 seconds.
- **Charge port testing:**
Bike must be turned on to run software.
- click "Connect"



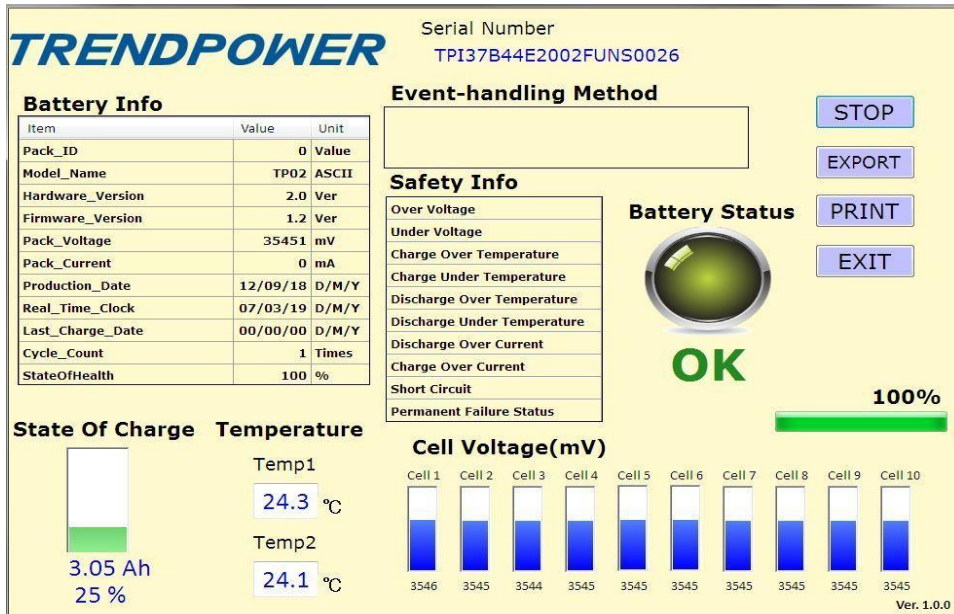
- Then Click START button

The image shows the 'TRENDPOWER' software interface. At the top left is the 'TRENDPOWER' logo. To its right is the 'Serial Number' field, which contains 'N/A'. Below the logo is a table for 'Battery Info'. To the right of the table is the 'Event-handling Method' field, which is empty. Below the table is the 'Safety Info' section, which lists various safety events. To the right of the safety info is the 'Battery Status' section, which includes a circular gauge and a progress bar showing '0%'. Below the battery status is the 'State Of Charge' section, which shows '0000 Ah' and '000 %'. To the right of the state of charge is the 'Temperature' section, which shows 'Temp1' and 'Temp2' fields, both with '°C' units. Below the temperature section is the 'Cell Voltage(mV)' section, which shows ten individual cell voltage meters labeled 'Cell 1' through 'Cell 10', each with 'mV' units. At the bottom right of the interface is the text 'Ver. 1.0.0'. A blue arrow points from the top of the window down to the 'START' button.

Item	Value	Unit
Pack_ID		Value
Model_Name		ASCII
Hardware_Version		Ver
Firmware_Version		Ver
Pack_Voltage		mV
Pack_Current		mA
Production_Date		D/M/Y
Real_Time_Clock		D/M/Y
Last_Charge_Date		D/M/Y
Cycle_Count		Times
StateOfHealth		%

Batteries have 10 cells.

- All 10 cells should show approximately the same level of charge to obtain OK/PASS status.



*If Battery does not show OK/Pass status, then a new battery is required.

*The software also allows you to print a copy for your files.

*The Export button has been disabled.

To Exit Trend Power Software click the EXIT button.

*It is now safe to unplug diagnostic tool from your computer and battery.

Norco Bicycles