



Technical Service Bulletin

SUBJECT:		NO: TSB-23-54-003	
TESTING 12V BATTERY WITH MIDTRONICS CPX-930 DURING PDI		DATE: April 2023	
		MODEL: 2022-2023 Outlander	
CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

PURPOSE

This bulletin provides instructions on how to determine if the 12V battery requires replacement during the Pre Delivery Inspection (PDI) using Midtronics CPX-930.

BACKGROUND

On occasion the Midtronics CPX-930 Battery Tester may incorrectly recommend replacement of the 12V battery even though the battery has not degraded and is functioning properly. The negative terminal of the 12V battery on Outlander has limited areas where the battery tester can be clamped correctly. Depending upon the clamping position, the resistance value of the terminal may increase. As a result the resistance value may measure lower than the actual value incorrectly suggesting battery replacement.

AFFECTED VEHICLES

All 2022-2023 Outlander (U.S. only - does not include Puerto Rico and Canada)

PROCEDURE

Clamping the negative terminal on the nut or screw will give a lower CCA value than the actual value because the nut and screw have higher electrical resistance. Therefore, be sure to clamp the negative terminal as shown (far right image below).



No Good: Nut



No Good: Screw



Good: Clamp

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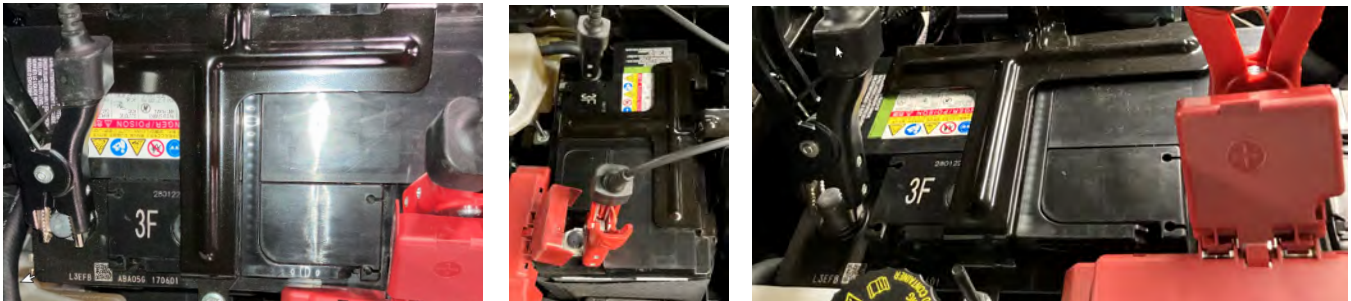
Clamp the tester as shown below to ensure an accurate test:



Step 1: Test the 12V battery using Midtronics CPX-930 during PDI. Based upon results:

- Good Battery: Finished
- Good Recharge: Finished (recharge the battery if necessary)
- Charge & Retest: Go to Step 2
- Replace Battery: Go to Step 2

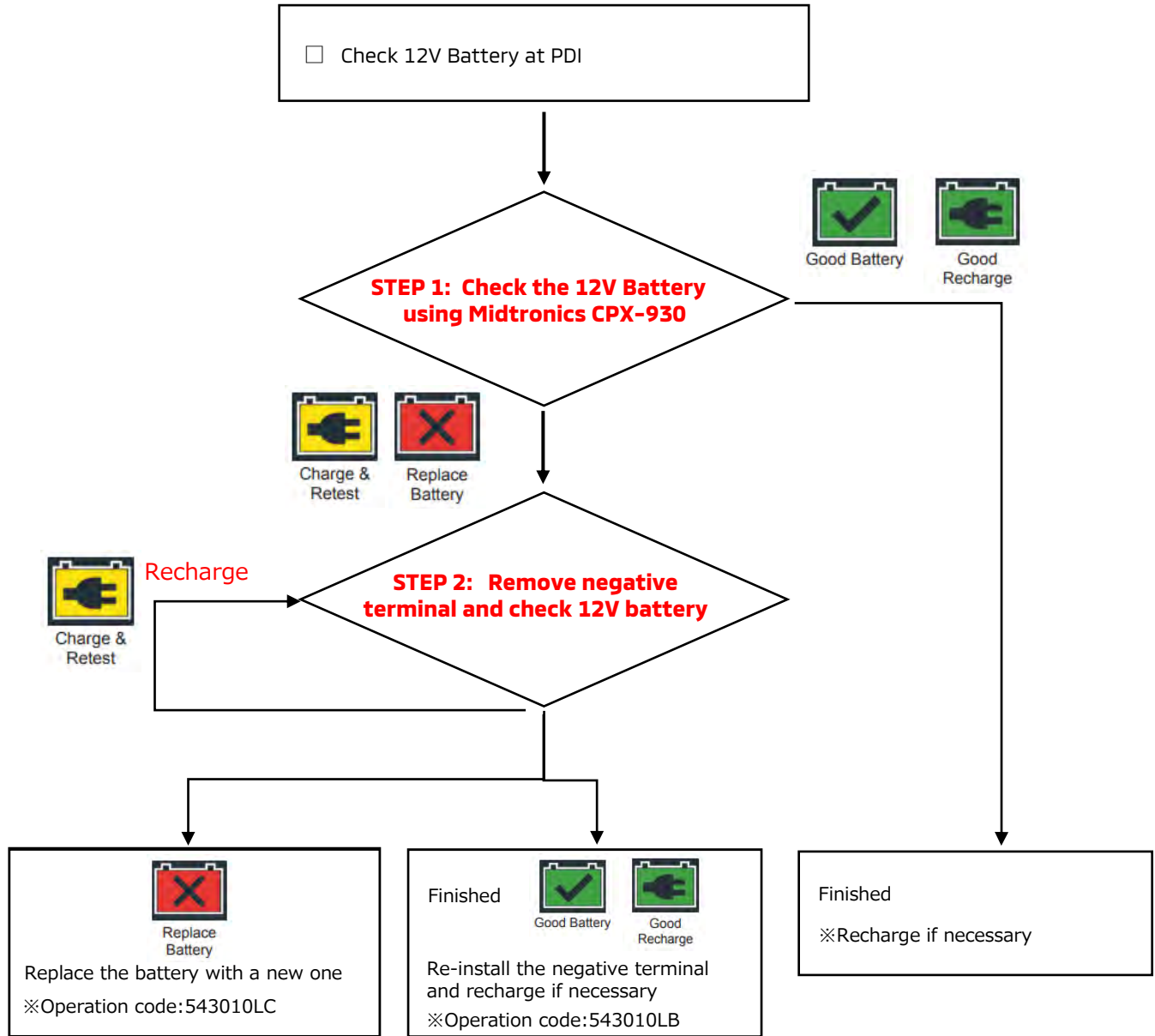
Step 2: Remove the negative terminal and test the 12V battery. Based upon results:



- Good Battery: Finished, reinstall negative terminal (submit warranty claim for 0.2 hrs)
- Good Recharge: Finished, reinstall negative terminal (submit warranty claim for 0.2 hrs)
- Charge & Retest: Recharge and perform Step 2 again
- Replace Battery: Replace 12V battery (submit warranty claim for 0.6 hours)

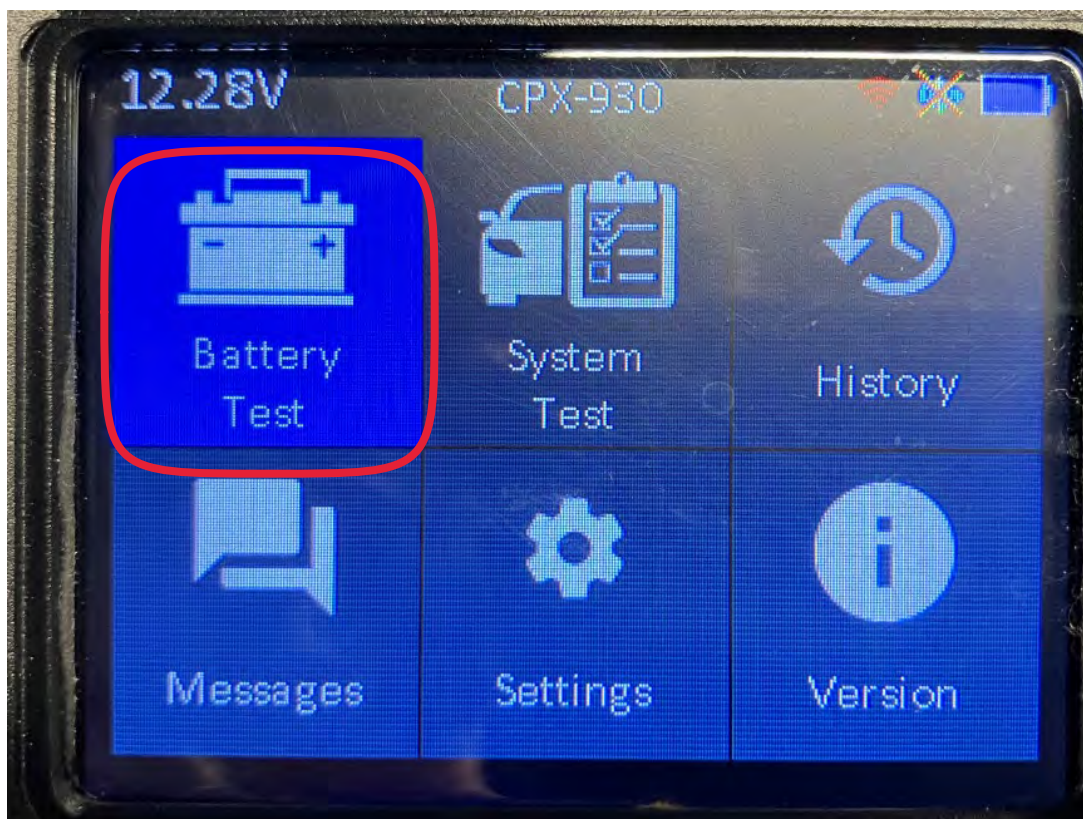
Refer to the flow chart and Midtronics CPX-930 screenshots below to accurately test the battery.

Battery Test Flowchart

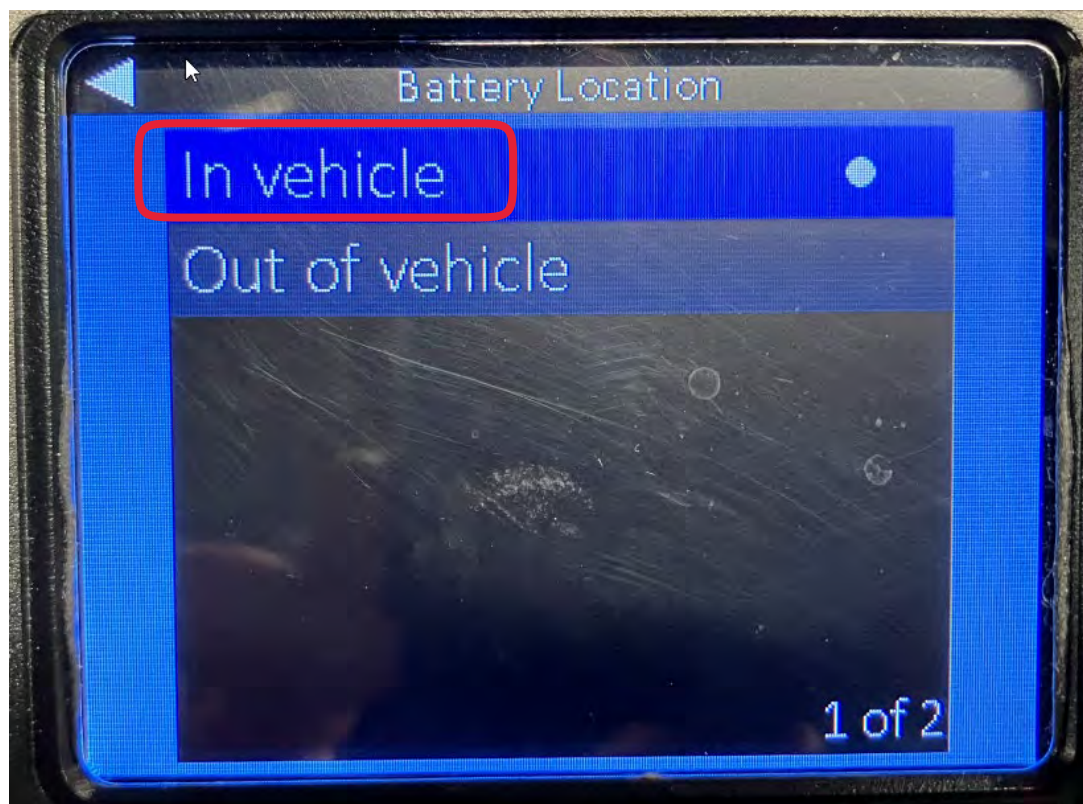


Battery Test with Midtronics CPX-930:

1. Select "Battery Test".



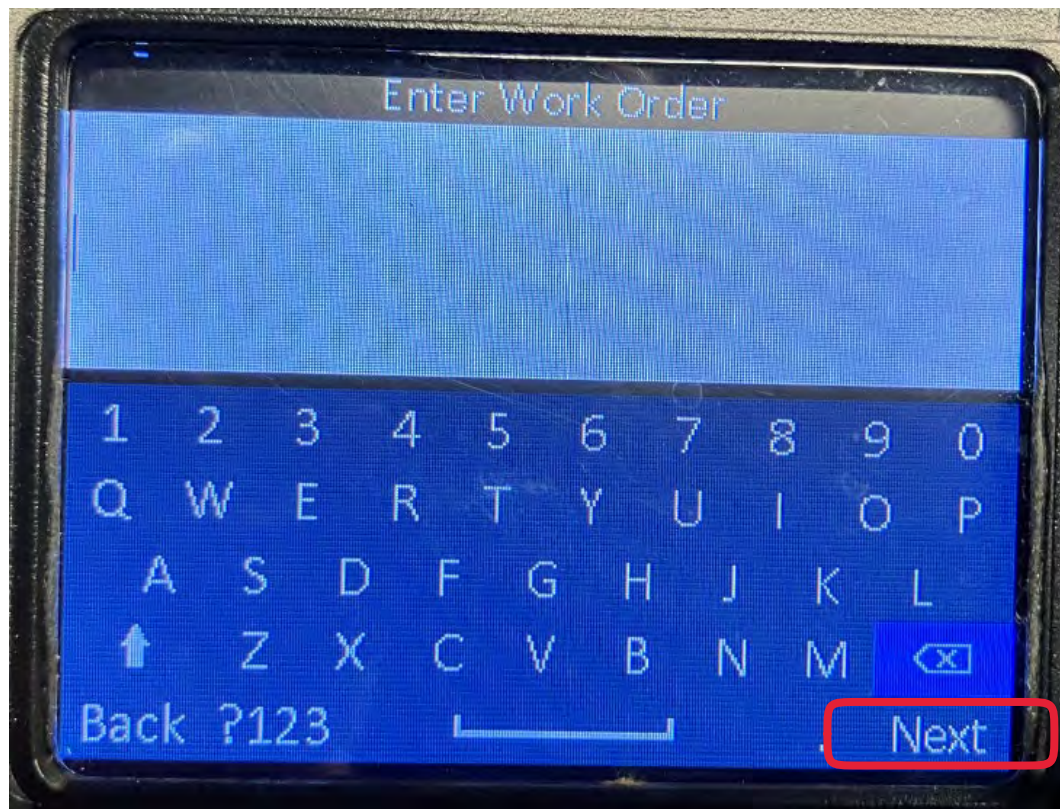
2. Select "In Vehicle".



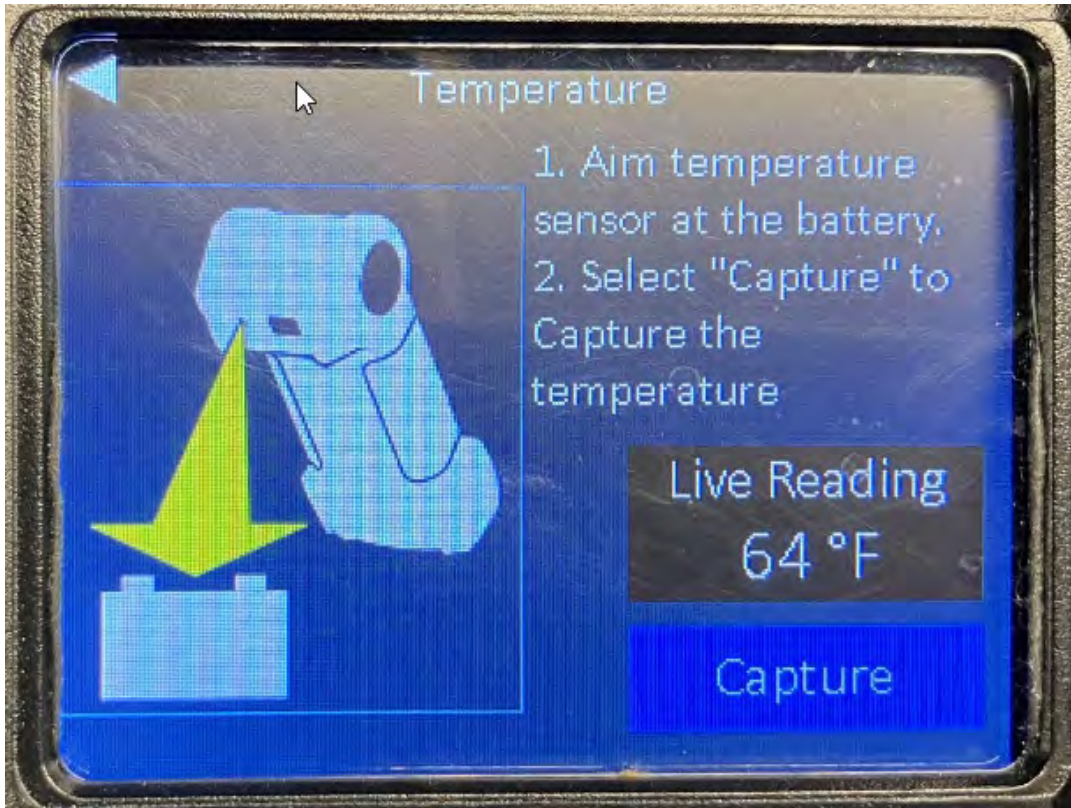
3. "Battery Test In Progress" appears and will automatically proceed to next screen.



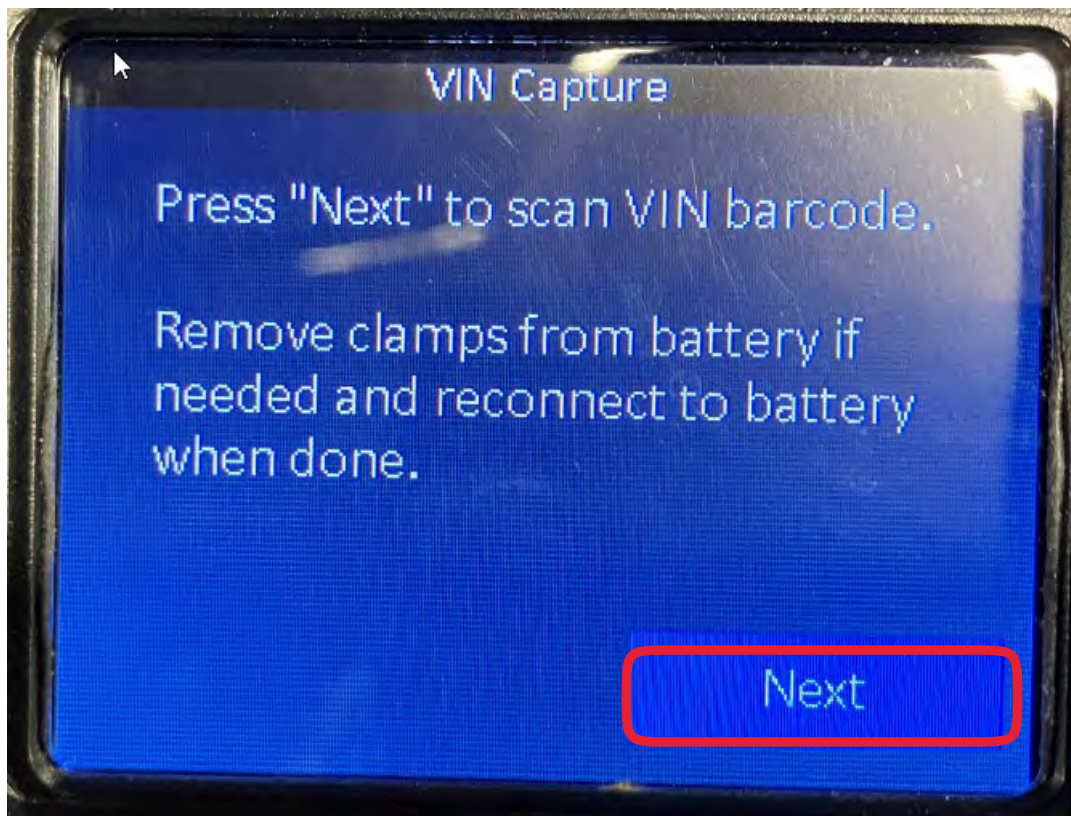
4. Enter the Repair Order number and select "Next" (for in vehicle test).



5. Follow the on screen instructions to capture the temperature.

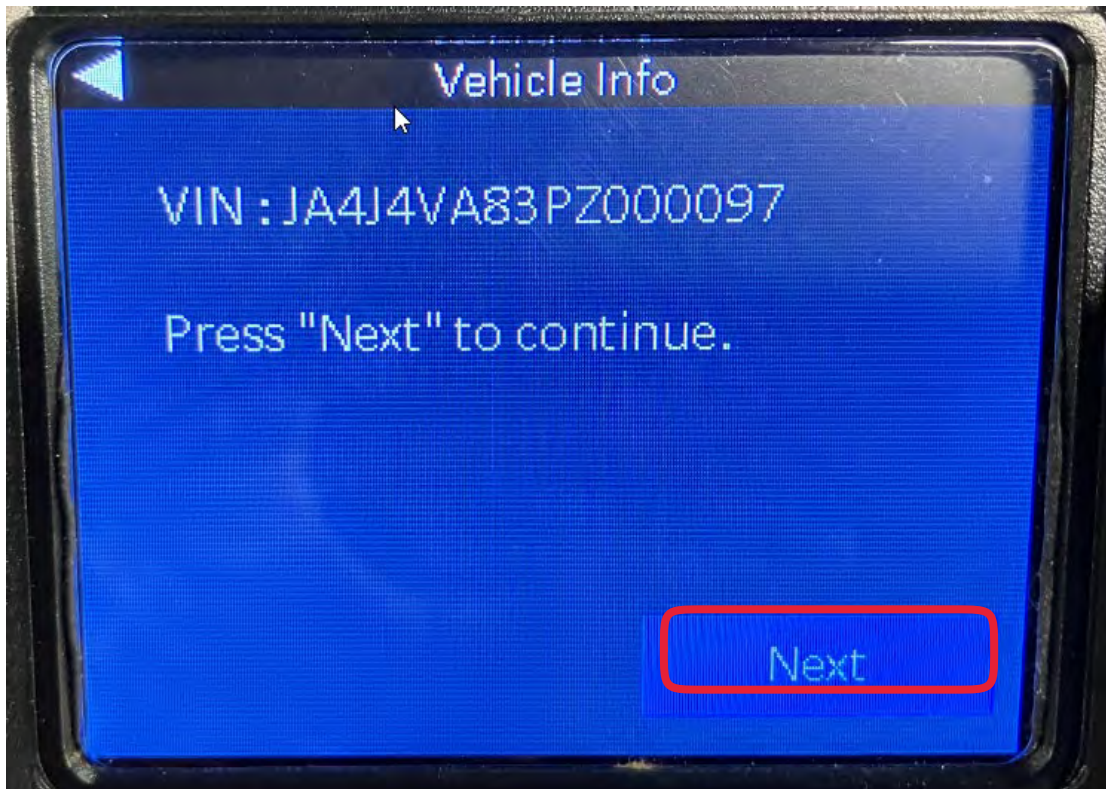


6. Using the tool's scanner, scan the VIN Barcode on the B Pillar behind the driver's door.

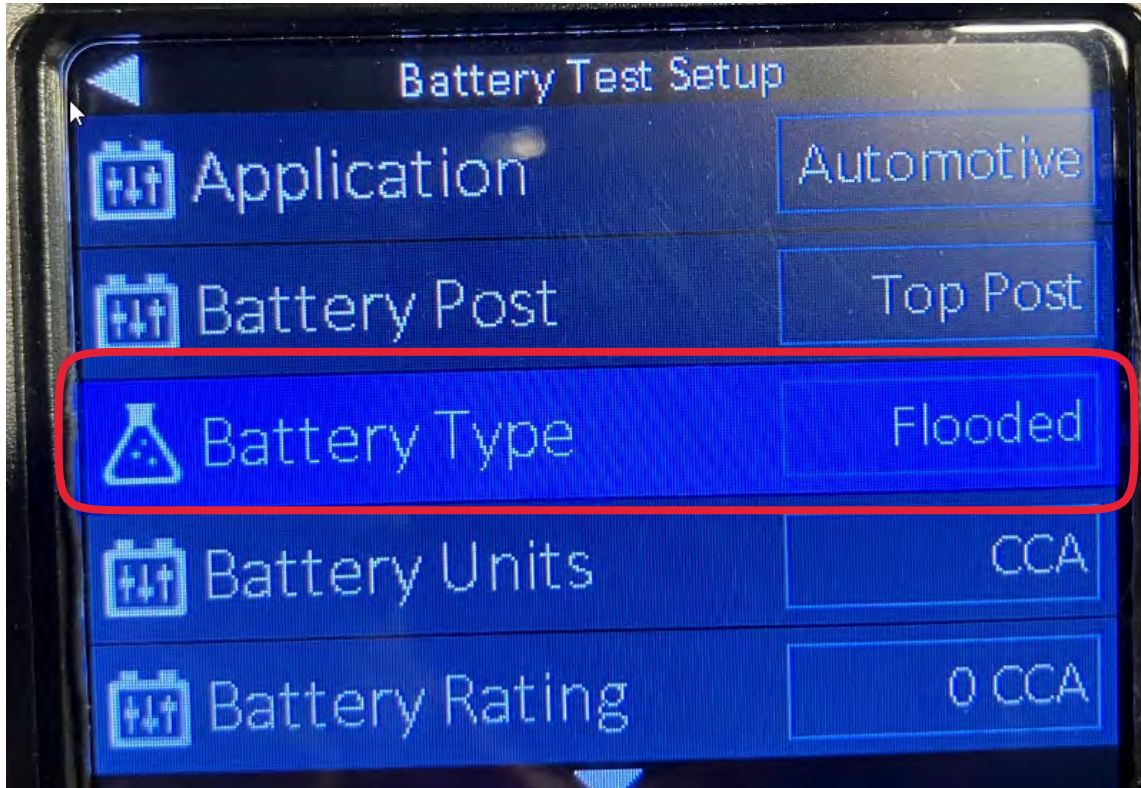




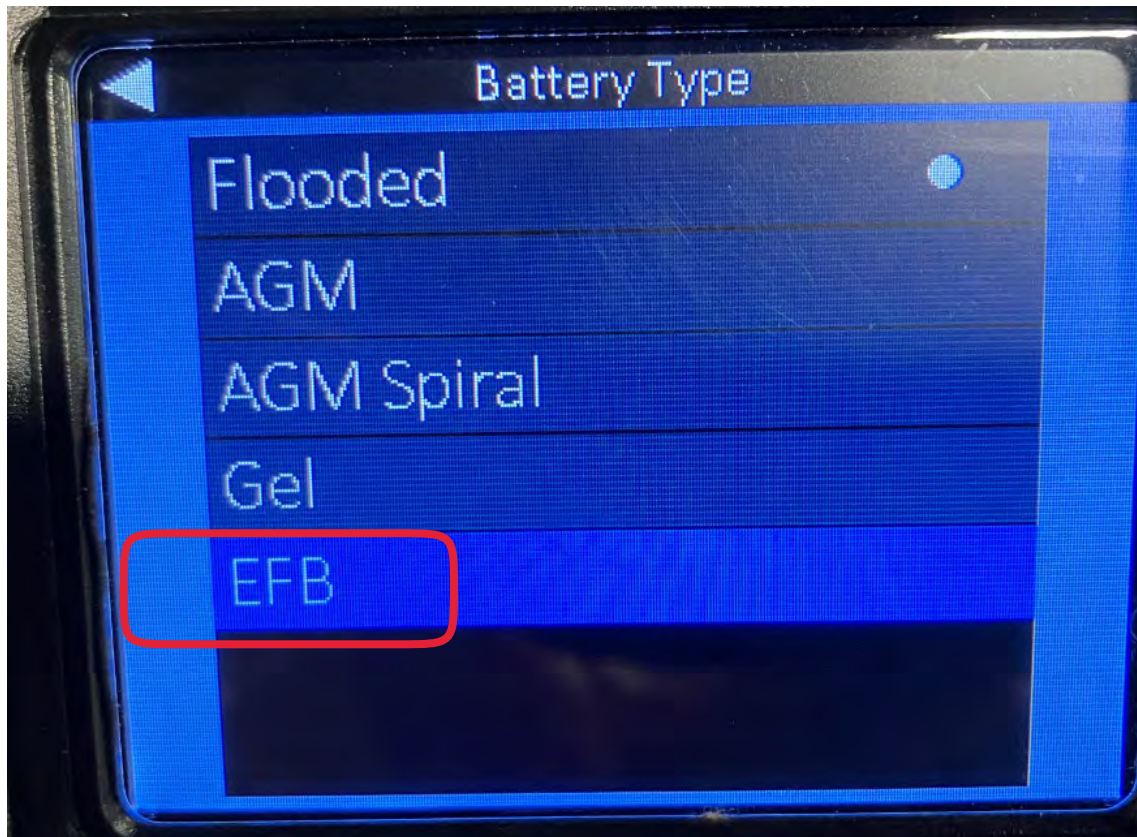
7. Verify the VIN reads correctly and select "Next".



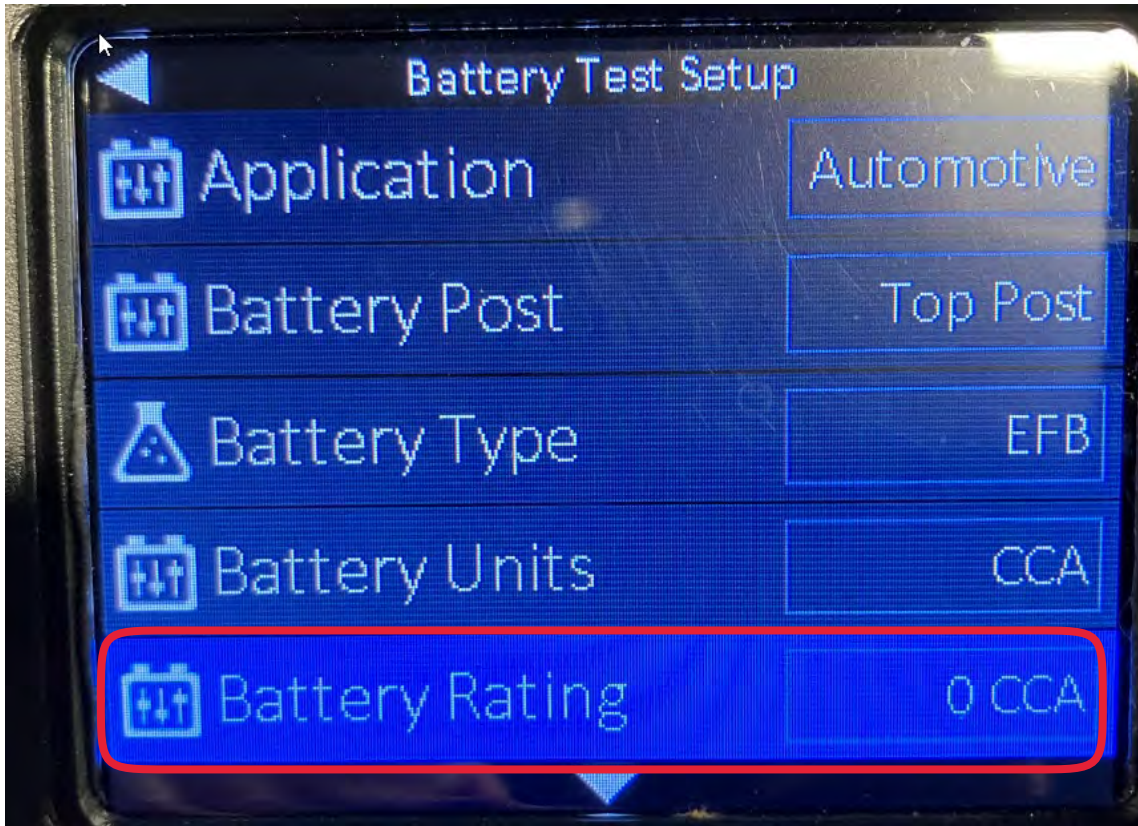
8. Next screen has several options. Arrow down to "Battery Type" and select.



9. Arrow down to "EFB" and press select (Extended Flooded Battery).



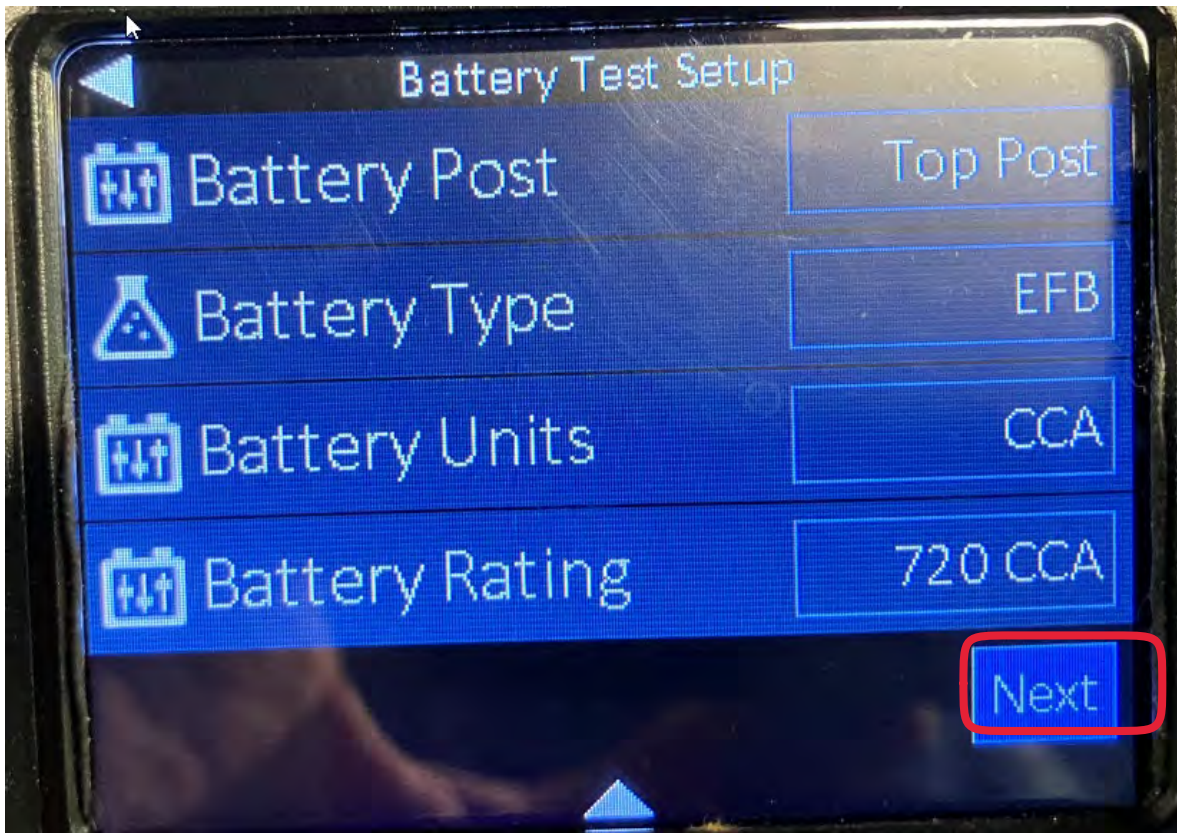
10. Arrow down to "Battery Rating" and press select.



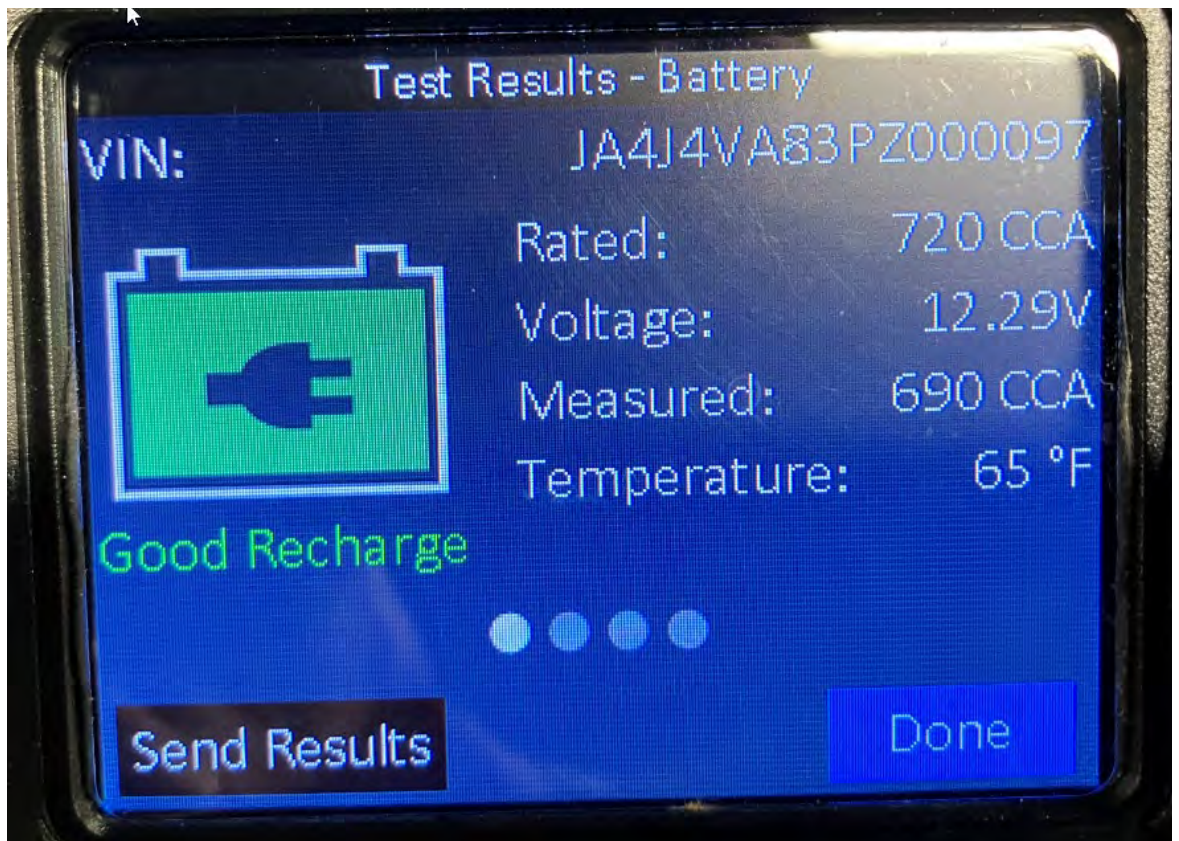
11. Use the arrow keys to scroll up to the CCA rating of 720 (if necessary) and select "OK".



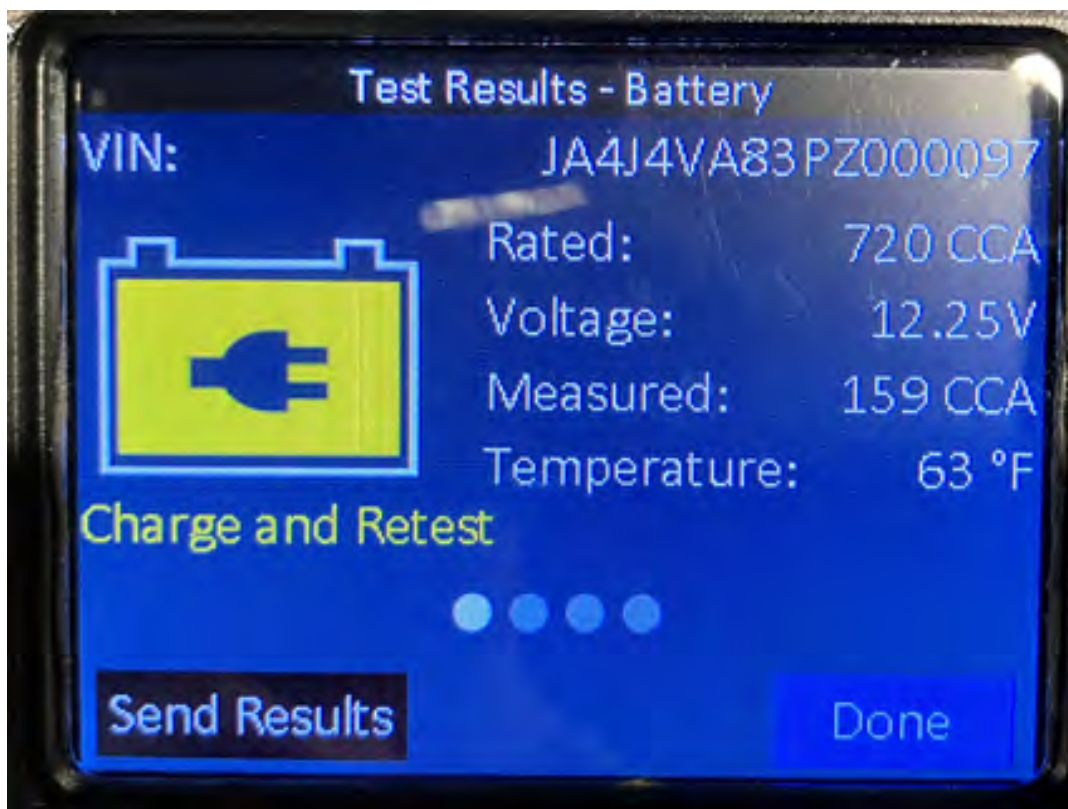
12. Arrow down and select "Next".



13. Test results will now be displayed. (If the "No WIFI connection" screen pops up, select "Ok" or "Next").



14. If results indicate "replace battery or charge and retest" disconnect negative battery terminal and **repeat test procedure using out of vehicle test.**



PARTS INFORMATION

None

WARRANTY

This bulletin is supplied as technical information only and is not an authorization to repair. If an affected vehicle is reported with the described condition, diagnose the condition, repair as described in this bulletin, and submit a normal warranty claim using the information below.

Operation Code	Operation	Quantity	Work Time
543010LB	Retest the 12V battery (Good Battery/Good Recharge)	1	0.2H
543010LC	Retest the 12V battery + Replace Battery	1	0.6H