

# The B2Q Test Procedure - A high level overview



- Clamp the B1e tester to a lead-acid battery, and start the engine for at least 10 seconds (if the battery is installed).
- Input test parameters then scan the QR test code with the B2QScan app. For best results, verify you have an internet connection, and you are using the most current version of the B2QScan App.
- Clear color-coded test results are instantly provided to the technician, customer, service writer and corporate management.

# The B2Q Test Procedure - A high level overview



- Test results are synchronized to the cloud for backup, sharing and analysis across multiple devices and people.
- To see a video overview of a complete test performed in under 45 seconds, please visit the B2Q YouTube Channel at <https://goo.gl/fZ8PWC> .

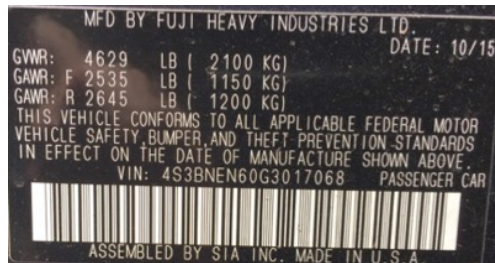
# The B2Q Test Procedure - A high level overview



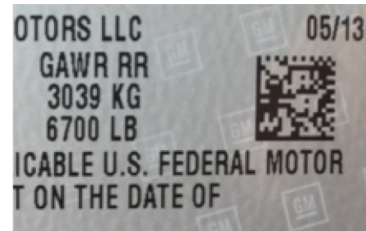
"QR"  
test barcode



"UPC"  
barcode

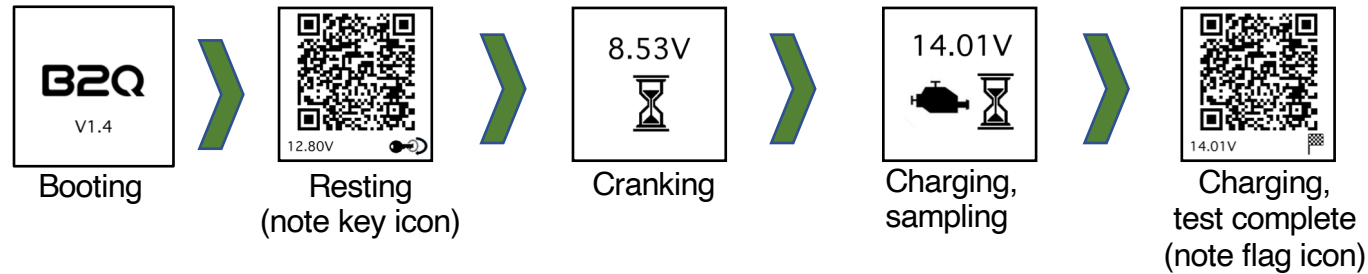


"VIN"  
barcodes



- The B2QScan app can automatically input test parameters for you by scanning the following types of barcodes:
  - The "QR" format barcode generated by the B1e Tester is scanned to transfer battery test data to the B2QScan app.
  - Barcodes printed on batteries may be scanned, such as the "UPC" format barcode common on many batteries. If these barcodes are stored in the B2Q Battery Barcode database, test parameters associated with that barcode (for example CCA rating, battery type, etc ...) will be automatically added to the test inputs for you. Otherwise, you must input them manually.
  - VIN barcodes commonly found in the door frame of passenger vehicles may be scanned. B2QScan also recognizes data matrix and QR VIN barcode formats.

# The B2Q Test Procedure – Step 1: Attach the B1 Tester



- Attach the B1e tester to the battery terminals. The terminals must be cleaned of debris, and the tester clamps firmly attached. Do not test at remote posts - the tester clamps must be attached directly to the battery terminals for the most accurate results.
- The B1e tester will immediately activate, test the resting battery, and display alternating text (voltage, measured rating) beneath a QR test code. The ignition icon in the lower right indicates you should start the engine and leave it running for at least 10 seconds if the battery is installed. The display will then automatically update with cranking and charging information. The checkered flag in the lower right indicates the testing process has completed and both cranking and charging data have been added to the QR test code.



## The B2Q Test Procedure – Step 2: Select the "+" icon



- Verify you have an internet connection (Wi-Fi, cellular), then open the B2QScan app.
- Start a test by selecting the "+" icon in the upper right of the Tests list screen.
- Users subscribed to B2Q Digital Services will see screen **A**. In this example we will test a used battery installed in a vehicle. Selecting that choice leads to screen **B**.
- Users not subscribed to B2Q Digital Services will go directly to screen **B** when the "+" icon is selected.

# The B2Q Test Procedure – Step 3: Scan the VIN code



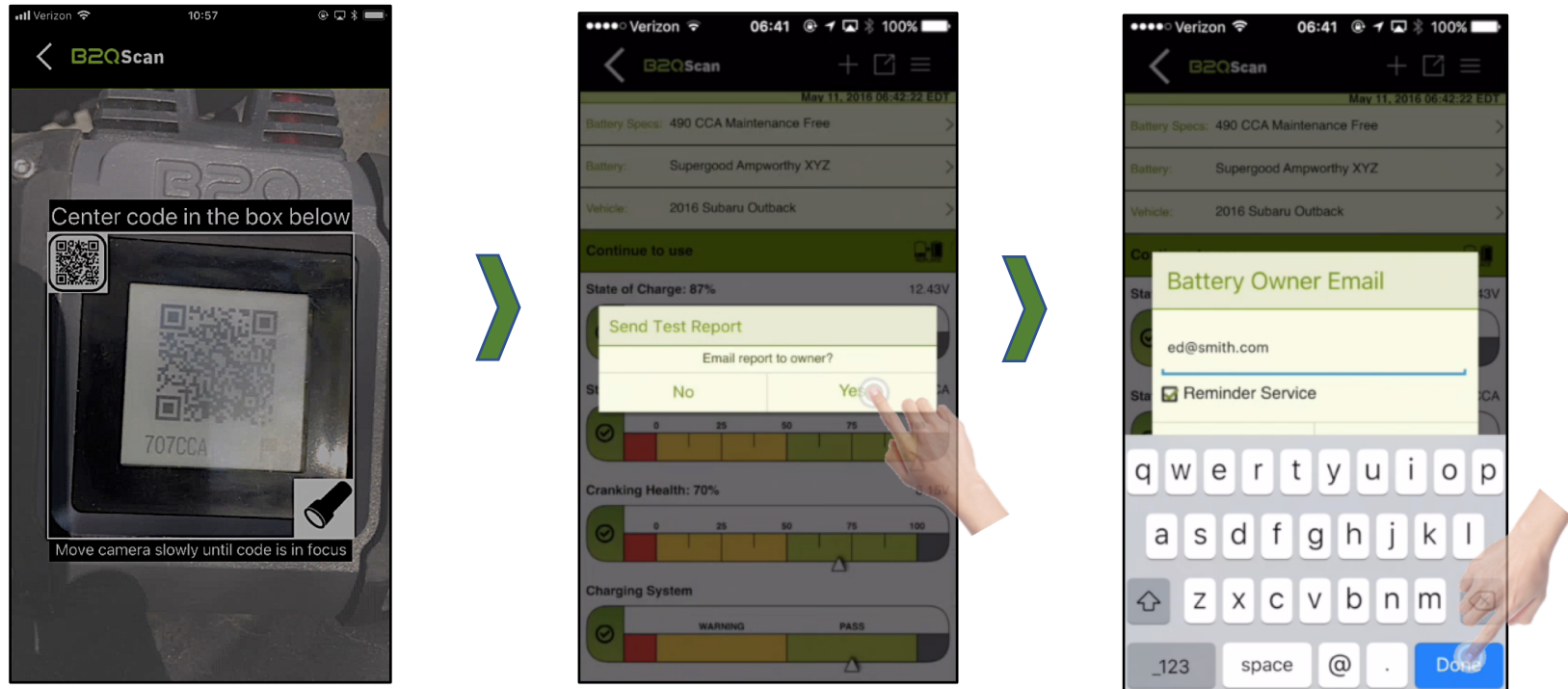
- B2Q recommends first scanning the VIN code to associate the battery test with a specific vehicle.
- Center the VIN barcode within the scan guide, fill the guide with the barcode while staying within the guide border, and allow the camera to focus and scan. If you need to manually input the 17 character VIN, tap the lower left pencil icon. In low-light conditions you may tap the lower right flashlight icon to energize the rear flash LED if your device is equipped.
- Users subscribed to B2Q Digital Services will see vehicle MMY, together with BCI OE battery specs and the most recent test history. Unsubscribed users will see only MMY.
- Select "Continue to Test" to proceed.

## The B2Q Test Procedure – Step 4: Scan the battery barcode



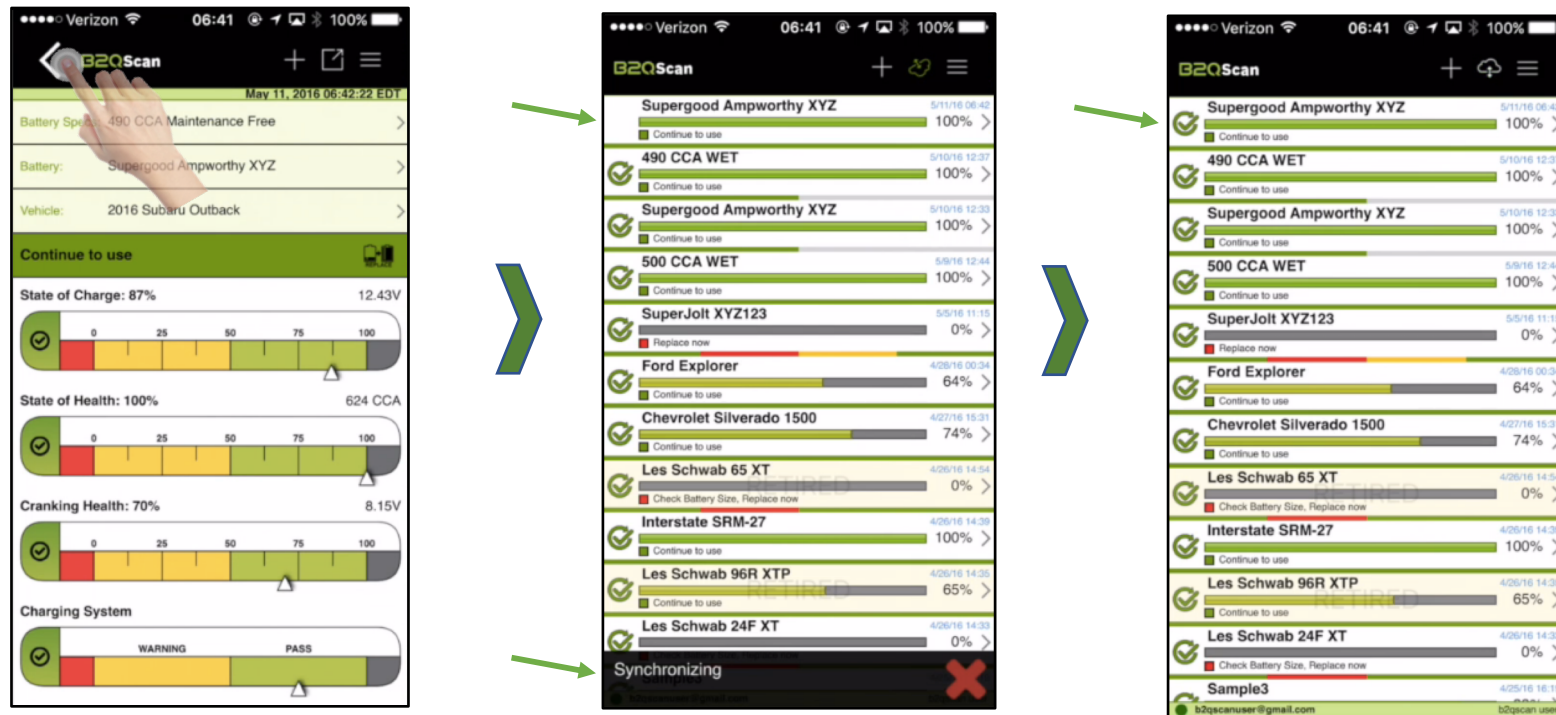
- The next step is to input battery test parameters via scanning a barcode or manual input.
- If the battery has no barcode, select "Enter manually from battery label".
- If the battery has a barcode, start a scan by selecting "Lookup using barcode". Center the battery barcode within the scan guide, fill the guide with the barcode while staying within the guide border, and allow the camera to focus. Once again note the pencil and flashlight icons.
- If the barcode is recognized, battery test parameters will be automatically input. Otherwise, you'll be instructed to input them manually.
- With battery test parameter inputs completed, select "Scan the Battery Test Code" to proceed to the next step.

# The B2Q Test Procedure – Step 5: Scan the QR test code



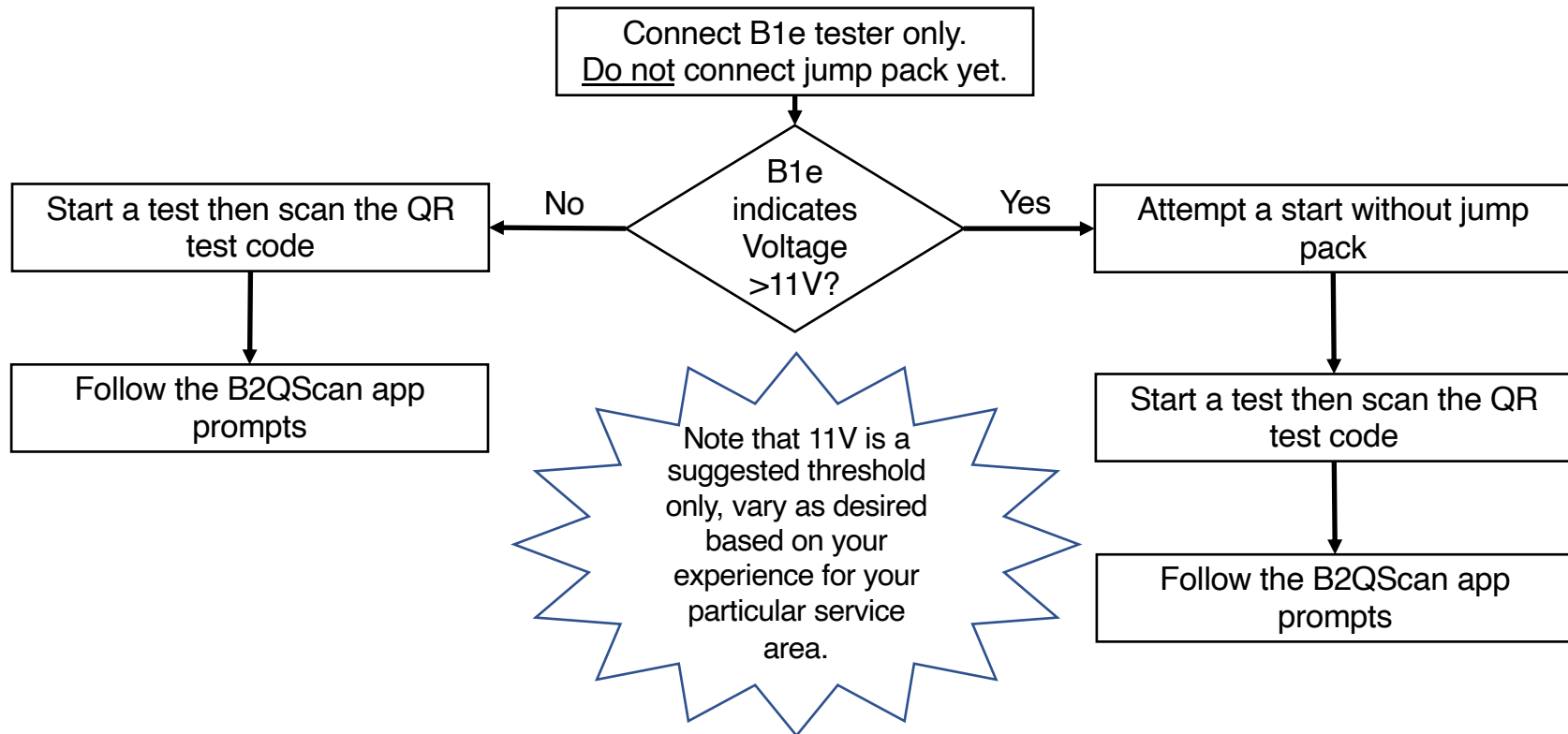
- Center the QR test code on the B1 tester display within the scan guide, fill the guide with the barcode while staying within the guide border, and allow the camera to focus.
- The battery test data is transferred from the tester and test results are generated. You may email the test report to the customer (optional), and a one-time reminder to retest their battery at a future date based on the battery state of health (optional).
- Select "Done"

# The B2Q Test Procedure – Step 6: Synchronize test results



- A Test Summary with the test recommendation is presented, which may also be shared directly on the screen if advising customers in person. Select "< B2QScan" in the upper left to return to the Tests list.
- Tests will automatically synchronize to the cloud when returning to the Tests list, and every 5 minutes (default) when the device has an active internet connection. The checkmark to the left of the test record indicates it's been successfully synched.
- The test record may now be accessed by customers and all authorized persons and locations within your organization via email, the B2QScan app, and the Battery Test Portal.

# The B2Q Test Procedure – Battery service call

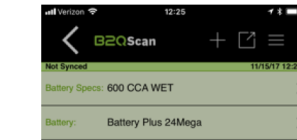




# The B2Q Test Procedure – Battery service call

## Example: B1e indicates $\leq 11V$

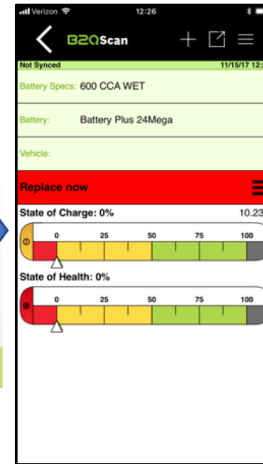
1. Connect the B1e to battery. Do not connect a jump pack yet.
2. Scan the B1e QR test code, then follow the prompts.



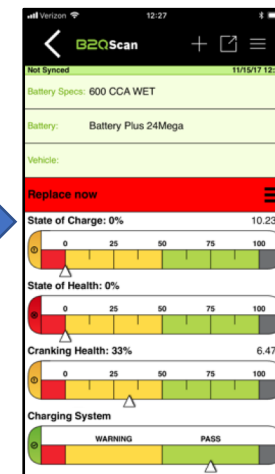
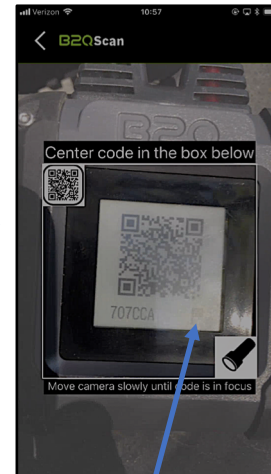
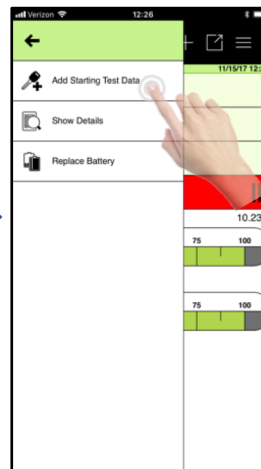
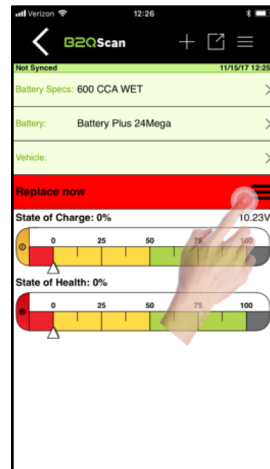
A full system test was not performed

1. Connect Jump Start system (if needed)
2. Disconnect then reconnect battery tester
3. Start vehicle
4. Select 'Add Starting Test Data' from the Recommendation Menu
5. Scan a complete (finish-flag) QR code

Close



3. Disconnect the B1e
4. Connect the jump pack
5. Re-connect the B1e
6. Start the vehicle
7. Select the menu in the Recommendation bar



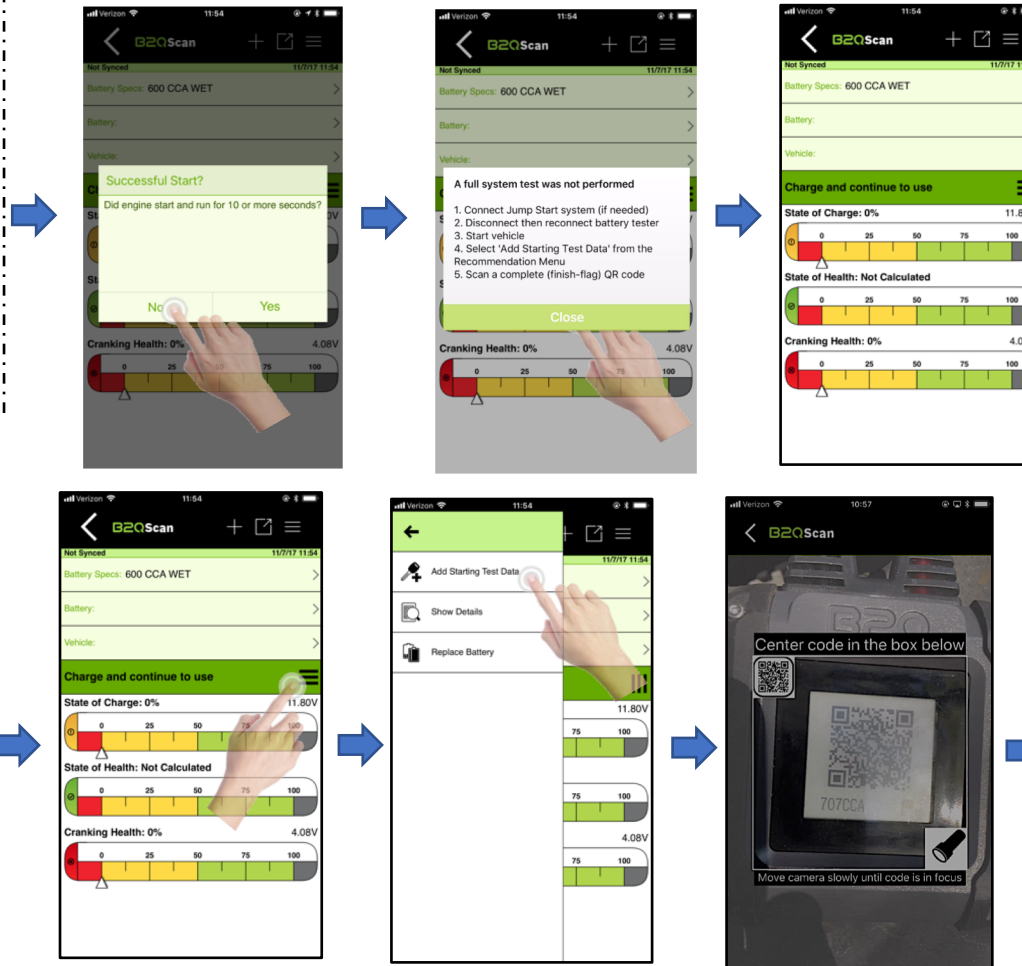
A full member test!  
\*Note: lower right B1e checked flag icon indicates a start was attempted.

# The B2Q Test Procedure – Battery service call

## Example: B1e indicates > 11V

1. Connect the B1e to battery.
2. Attempt to start the vehicle.
3. If the vehicle starts, complete test as normal with no jump pack.

Otherwise, scan the B1e QR test code, then follow the prompts. In this example, a partial start was sensed by the B1e.



5. Disconnect the B1e
6. Connect the jump pack
6. Re-connect the B1e
7. Start the vehicle
8. Select the menu in the Recommendation bar

A full member test!

# The B2Q Test Procedure – Replacing a battery

## "Replace now" or "Replace soon" test Result?

- Advise your customer of the test result. You may consult the B2QScan App Test Outputs and Definitions Guide at <https://goo.gl/TJzODN> , and also tap the “?” icons within the app to help explain this result.
- Install a new battery.
- Test the NEW installed battery → Critical step!!!

# The B2Q Test Procedure – Replacing a battery

## Why test every new battery installed or sold?

- Confirms proper functioning of charging system at the time of install, and confirms satisfactory health of the replacement battery.
  - \*Critical to avoid near term warranty exposure
- Creates a 'Begin Service' date for every new battery and associates it with the vehicle / owner.
  - \*Begins warranty clock if applicable
- Identifies a new battery sold for inventory management and sales tracking
- "Retires" the old battery for complete end-to-end lifecycle management.
  - \*Creates warranty record if applicable

# The B2Q Test Procedure – Replacing a battery

## Test every newly sold/installed battery - 2 ways

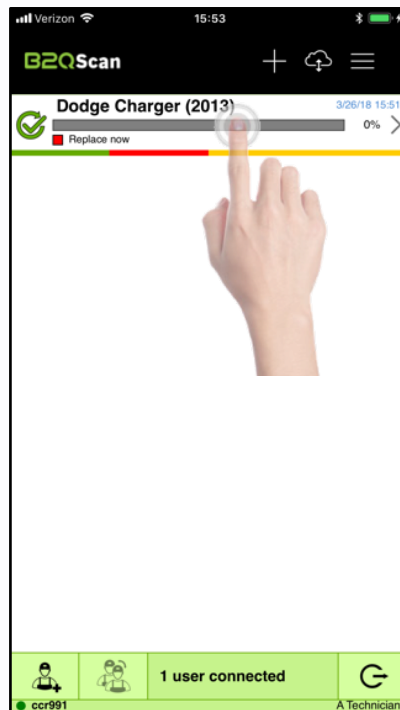
After the NEW battery has been installed and you are ready to commission it...

Option

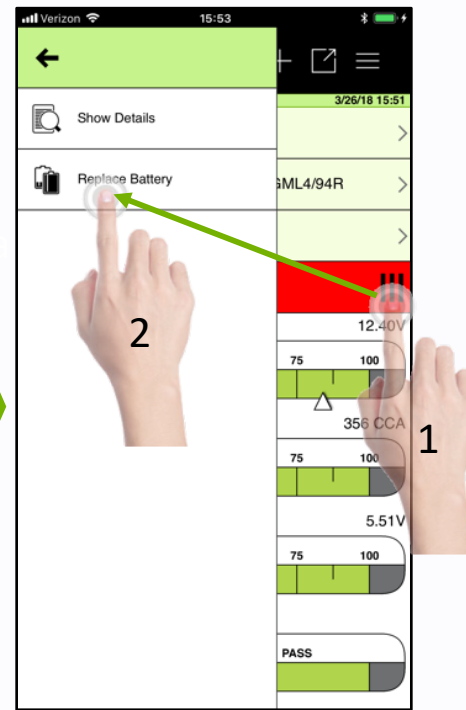
A

### Replace battery in an existing test record

Choose the earlier test record that prompted the replacement from your tests list



Tap "Replace" in the recommendation bar menu

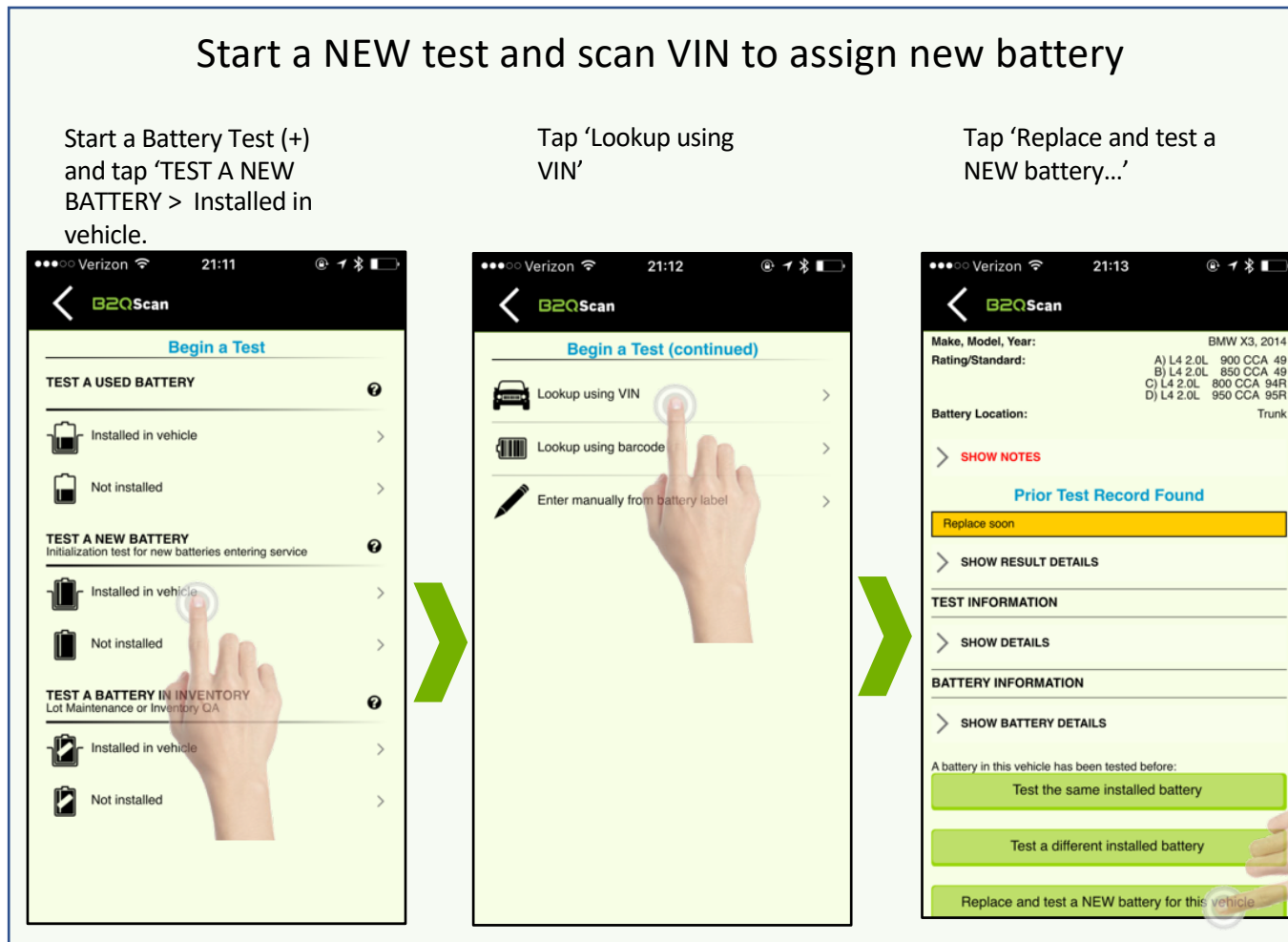


# The B2Q Test Procedure – Replacing a battery

## Test every newly sold/installed battery - 2 ways

After the NEW battery has been installed and you are ready to commission it... Option

B

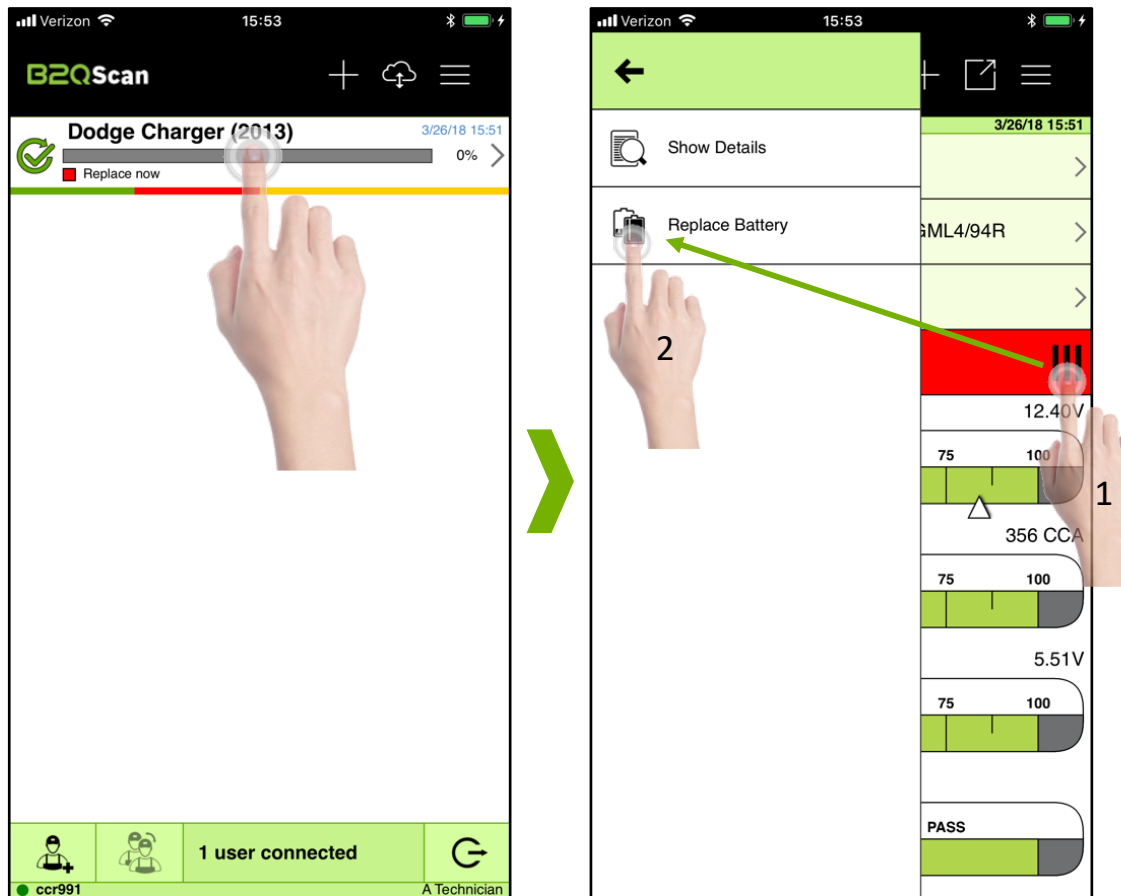


\*\*\*Follow either sequence A or B to completion to commission a NEW replacement battery\*\*\*



# The B2Q Test Procedure – Replacing a battery

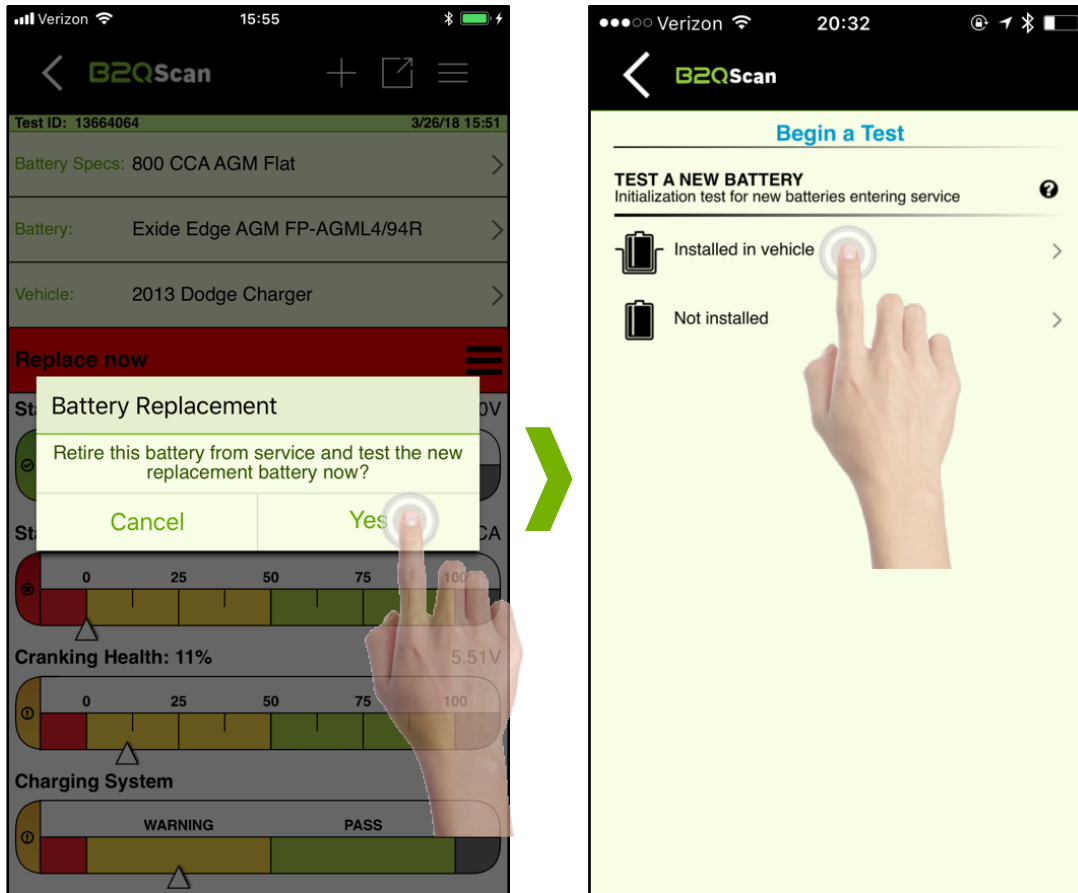
## Detailed battery replacement process Option A



- Once the new replacement battery is installed in the vehicle, choose the earlier test record that prompted the replacement from your tests list
- Tap "Replace" in the recommendation bar menu to begin the replacement process.

# The B2Q Test Procedure – Replacing a battery

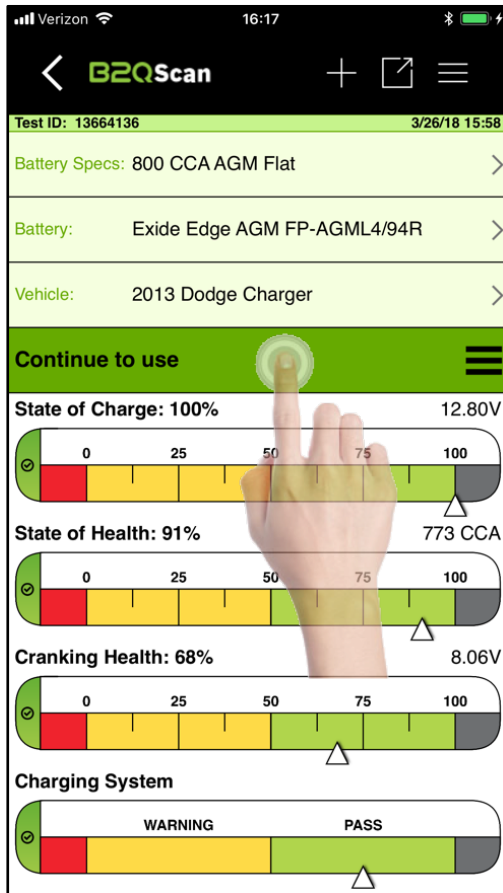
## Detailed battery replacement process Option A - continued



- Tap "Yes" to confirm retirement of the existing battery.
- Tap "Installed in vehicle" and complete a full test of the new replacement battery, including an engine start.

# The B2Q Test Procedure – Replacing a battery

## Detailed battery replacement process Option A - continued

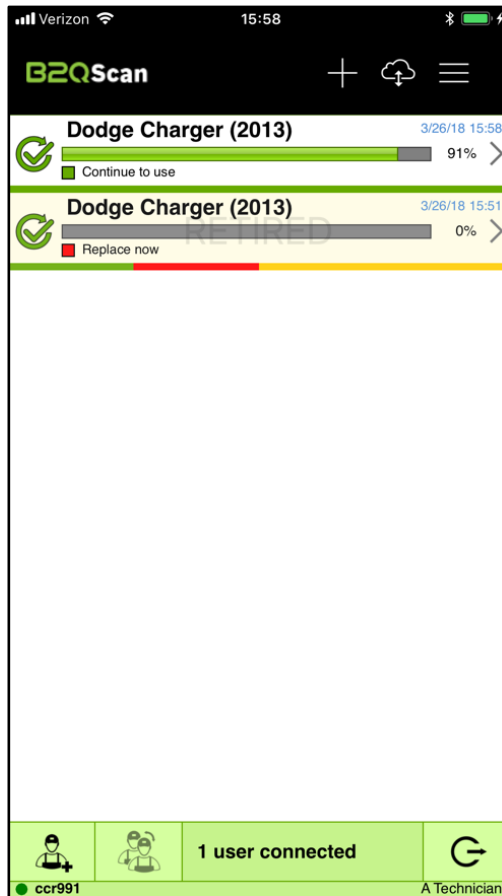


BATTERY INFORMATION	
Battery Status	In Service (view <a href="#">retired</a> )
Battery Barcode	017724559165
Battery Brand	Exide Edge AGM
Battery Model	FP-AGML4/94R
BCI/JIS Size	BCI/94R (H7/L4)
Manufacture Date	
Install Date	3/26/18
Begin Service Date	3/26/18
Battery ID	
Battery Owner	
Owner Email	
VEHICLE INFORMATION	

- Review the completed test summary, then tap the recommendation bar to reveal the more detailed Test Details view.
- Note the Install and Begin Service dates in the “Battery Information” section.

# The B2Q Test Procedure – Replacing a battery

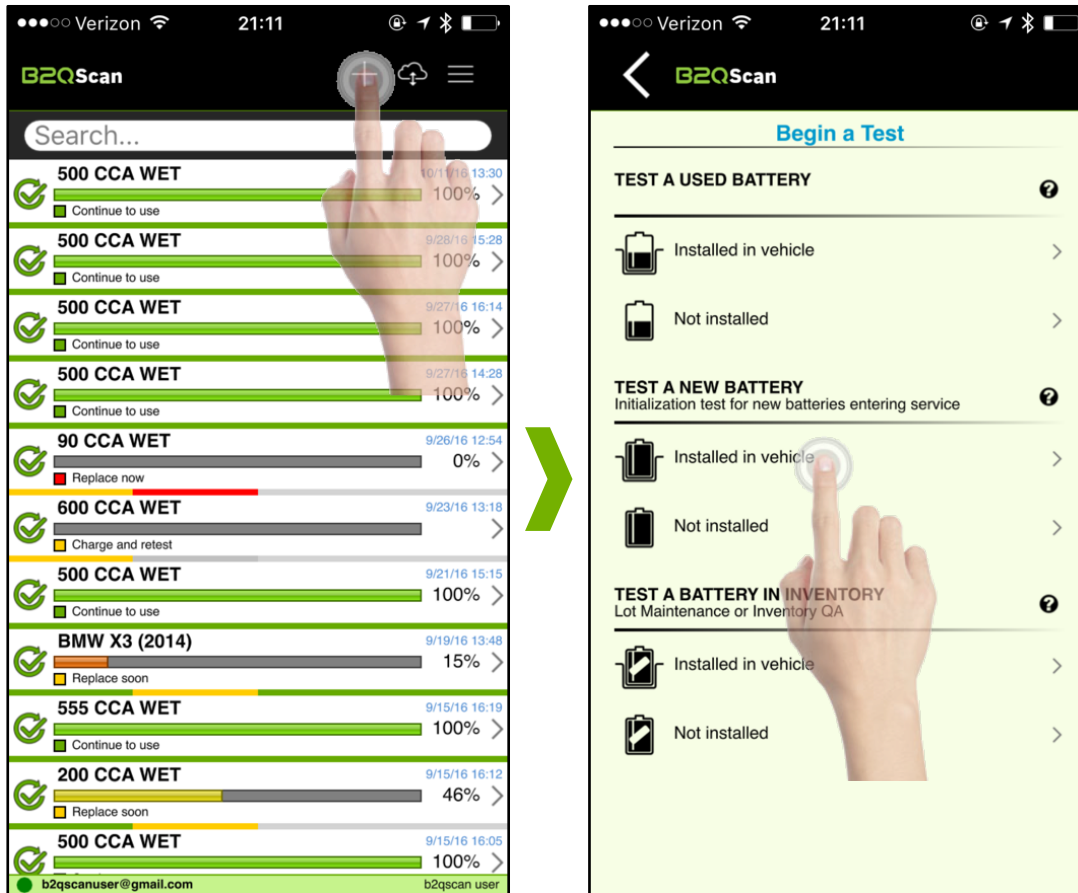
## Detailed battery replacement process Option A - continued



- Note that all tests associated with the old battery will now indicate the old battery has been “Retired”.

# The B2Q Test Procedure – Replacing a battery

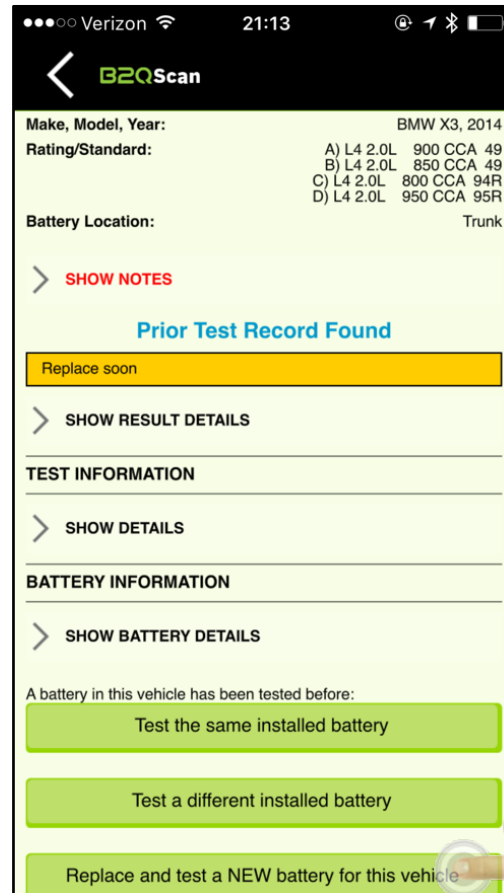
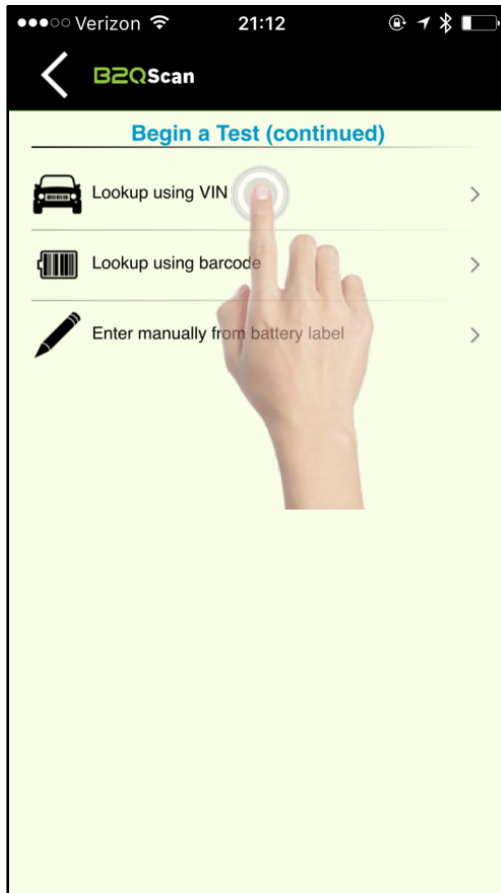
## Detailed battery replacement process Option B



- Once the new replacement battery is installed in the vehicle, tap the “+” icon to begin a new test.
- Tap “TEST A NEW BATTERY > Installed in vehicle”.

# The B2Q Test Procedure – Replacing a battery

## Detailed battery replacement process Option B - continued

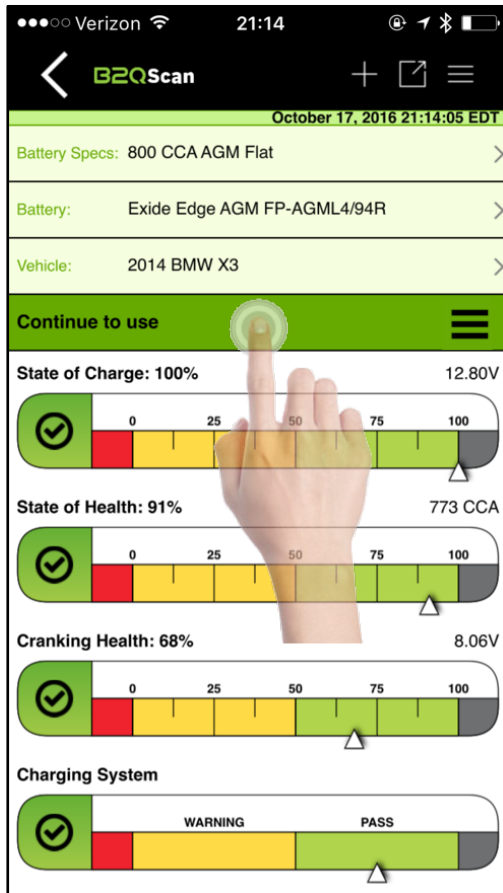


- Tap “Lookup using VIN”
- Tap “Replace and test a NEW battery for this vehicle”, then complete a full test of the new replacement battery, including an engine start.



# The B2Q Test Procedure – Replacing a battery

## Detailed battery replacement process Option B - continued



BATTERY INFORMATION

Battery Status In Service (view [retired](#))

Battery UPC 017724559165 >

Battery Brand Exide Edge AGM >

Battery Model FP-AGML4/94R >

BCI/JIS Size BCI/94R (H7/L4) >

Manufacture Date >

Install Date 10/17/16 >

Begin Service Date 10/17/16

Battery ID >

Battery Owner >

Owner Email >

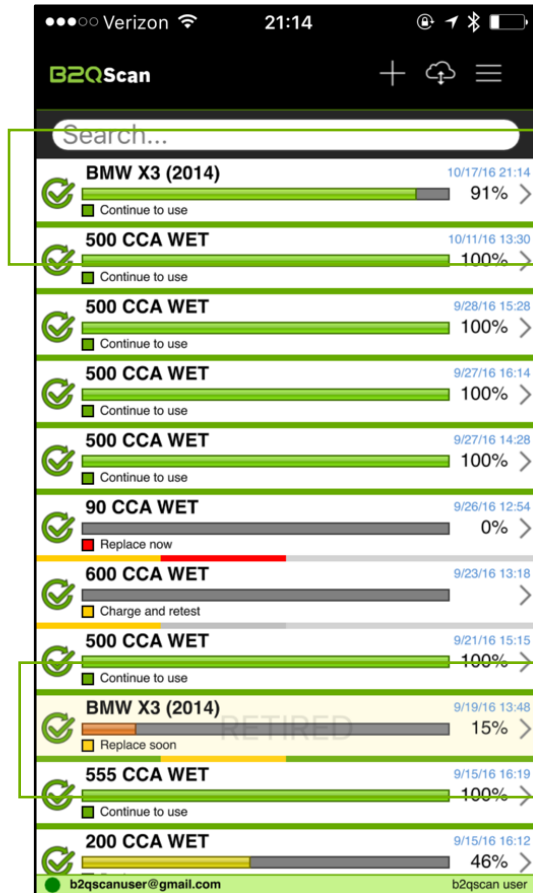
VEHICLE INFORMATION

Vehicle VIN 5UXWX9C59E0D10710 >

- Review the completed test summary, then tap the recommendation bar to reveal the more detailed Test Details view.
- Note the Install and Begin Service dates in the “Battery Information” section.

# The B2Q Test Procedure – Replacing a battery

## Detailed battery replacement process Option B - continued



- The newly installed battery will be 'In Service' and now associated with the same vehicle
- Note that all tests associated with the old battery will now indicate it has been "Retired".