

Battery Maintenance During PDS

Service Category Power Source/Network

Section Battery/Charging

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2018 - 2019	ES300H, ES350, GS F, GS300, GS350, GX460, IS300, IS350, LC500, LC500H, LS500, LS500H, LX570, NX300, NX300H, RC F, RC300, RC350, RX350, RX450H	
2018	GS450H	

REVISION NOTICE

July 3, 2018 Rev2:

- Applicability has been updated to exclude 2018 – 2019 model year ES300 vehicles.

May 17, 2018 Rev1:

- Applicability has been updated to include 2019 model year Lexus vehicles.

Any previous printed versions of this bulletin should be discarded.

Introduction

A battery in a stored vehicle is subject to conditions that can reduce its performance and life. These conditions include storage period, temperature, parasitic drain, and battery load. Because of these factors, battery inspection and maintenance are required to ensure proper operation and optimal battery life.

As a matter of policy, Toyota does not provide battery warranty coverage for discharged and/or failed batteries due to lack of maintenance. It is the dealer's responsibility to maintain the specified State-Of-Charge (SOC) of the vehicle's battery while in stock and ensure proper SOC at delivery.

To eliminate customer service concerns due to an undercharged battery during the first few weeks of ownership, **ALL dealers should check battery SOC and recharge, if necessary, within 48 hours of delivery to customers.**

Battery Maintenance During PDS

Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
N/A	Not Applicable to Warranty	-	-	-	-

Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Digital Battery System Analyzer and Printer*	00002-V8150-KIT	1
GR8 Battery Diagnostic Station*	00002-MCGR8	

NOTE
Additional SSTs may be ordered by calling 1-800-933-8335.

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream 2.0*	ADE	TS2UNIT	1
Techstream Lite		TSLITEPDLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

* Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- Software version 13.10.019 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

Battery Inspection Procedure

ALL vehicles MUST be inspected according to the procedures listed below using the digital battery system analyzer no more than 48 hours BEFORE customer vehicle delivery.

IMPORTANT NOTE FOR HYBRID VEHICLES
In hybrid vehicles, the digital battery system analyzer is to be used ONLY on the AUXILIARY (12 volt) battery.

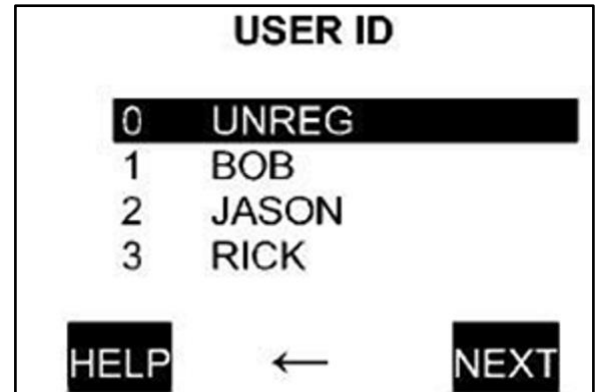
1. Connect the test clamps to the battery. (If the analyzer does NOT power up automatically, press the Power button.)

Battery Maintenance During PDS

Battery Inspection Procedure (continued)

2. Select the correct user ID (if applicable) and press Next.

Figure 1.

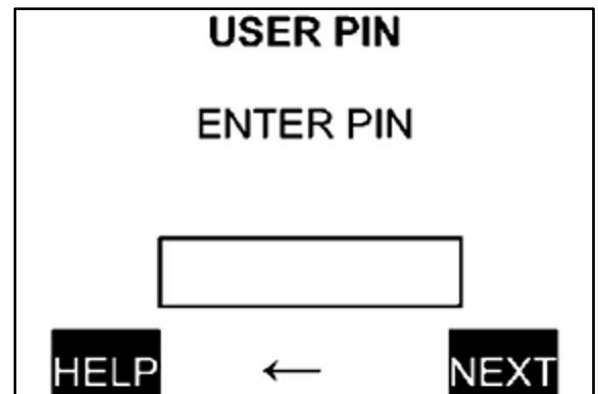


3. Enter the user PIN (if applicable) and press Next.

NOTE

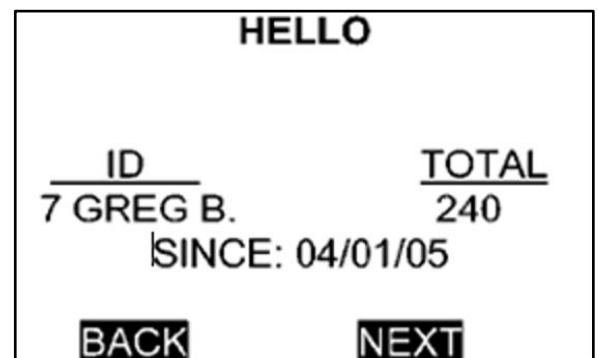
For details on defining user ID or PIN, refer to the NVS-8150 Instruction Manual.

Figure 2.



4. Press Next (if applicable) when the Hello screen appears to proceed to the Main Menu.

Figure 3.

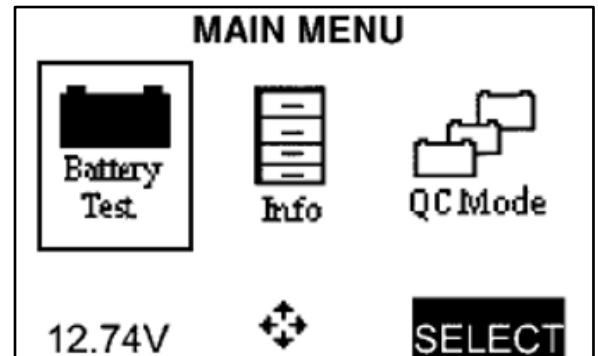


Battery Maintenance During PDS

Battery Inspection Procedure (continued)

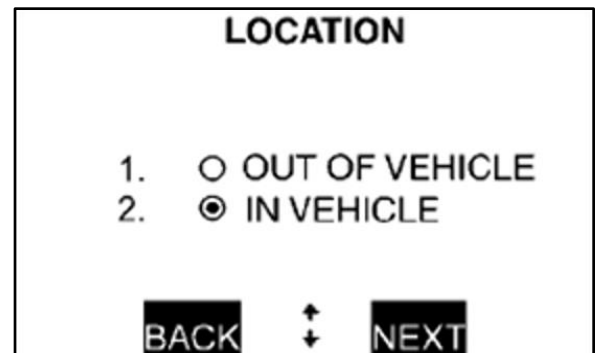
5. Choose Battery Test and press Select.

Figure 4.



6. Select In Vehicle and press Next.

Figure 5.

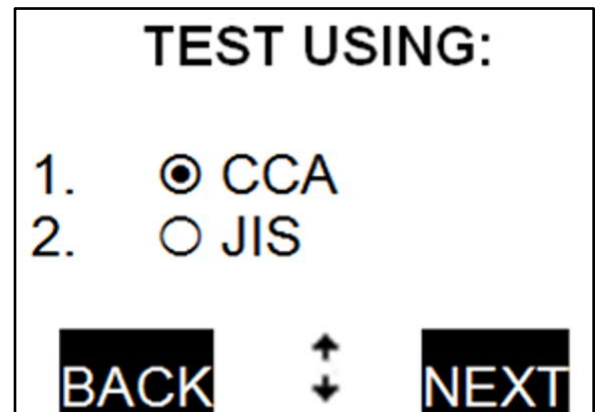


7. Select CCA and press Next.

NOTE

The battery can be tested using either CCA or JIS. If JIS is selected, go to step 10.

Figure 6.



Battery Maintenance During PDS

Battery Inspection Procedure (continued)

8. Select the appropriate battery type and press Next.

Figure 7.

BATTERY TYPE

1. FLOODED
2. AGM/SPIRAL
3. AGM/FLAT PLATE

BACK ↑↓ NEXT

9. Enter the appropriate battery rating and press Next.

Figure 8.

BATTERY RATING

500 ↑↓ CCA

USE KEYPAD TO ENTER

BACK ↕ NEXT

10. Select JIS number and press Next.

Figure 9.

JIS NUMBER

26A17

26A19

26B17

28A19

2 OF 72

BACK ↑↓ NEXT

Battery Maintenance During PDS

Battery Inspection Procedure (continued)

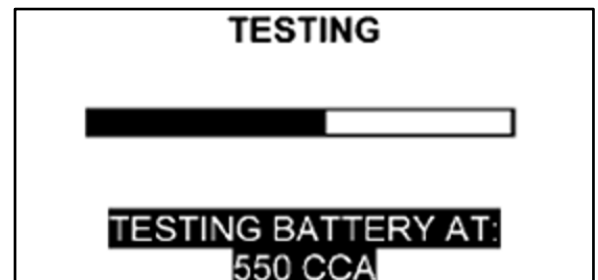
11. Aim the infrared (IR) temperature measurement sensor at the negative (-) battery post and press Next.

Figure 10.



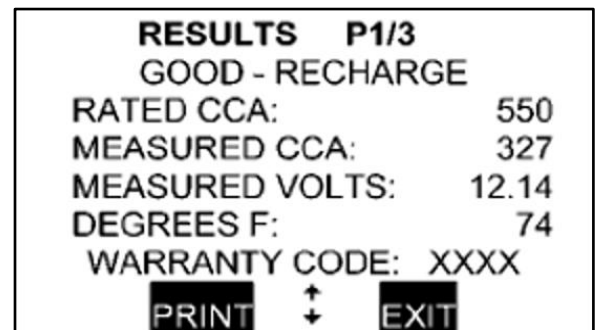
The battery is now being tested.
The progress bar will fill in across the screen during testing.

Figure 11.



12. Read or print the battery test results.

Figure 12.



Battery Maintenance During PDS

Battery Inspection Results

Once the test completes, proceed with one of the procedures below according to the battery condition results.

- **Battery Condition: “GOOD BATTERY”**

Return the battery to service.

- **Battery Condition: “GOOD–RECHARGE”**

Fully charge the battery using the GR8 Battery Diagnostic Station and return it to service.

- **Battery Condition: “CHARGE & RETEST”**

Fully charge the battery using the GR8 Battery Diagnostic Station and retest.

NOTE

Failure to fully charge the battery before retesting may cause false readings.

- **Battery Condition: “REPLACE BATTERY”**

Replace the battery.

NOTE

A Replace Battery result may also mean a poor connection between the battery cables and the battery. Retest the battery using the out-of-vehicle test before replacing it.

- **Battery Condition: “BAD CELL–REPLACE”**

Replace the battery. This decision indicates a bad cell within the battery.

CAUTION

- If “FROZEN BATTERY” displays as the test result, allow the battery to reach a temperature of 40°F (4°C) BEFORE retesting.
- NEVER CHARGE A FROZEN BATTERY. GASES MAY FORM, CRACKING THE CASE AND CAUSING BATTERY ACID TO LEAK.

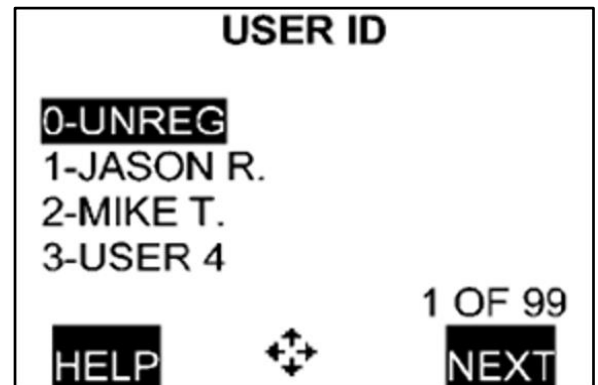
Battery Maintenance During PDS

Battery Charging Procedure

If the battery requires charging, follow the procedures below using the GR8 Battery Diagnostic Station.

1. Connect the charger cables to the positive (+) and negative (-) battery terminals.
2. Plug the charger into the 110V outlet and turn the switch to the ON position.
3. Select the appropriate user ID (if applicable) and press Next.

Figure 13.

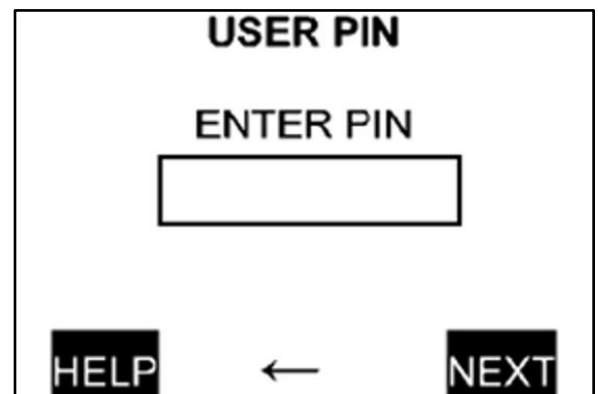


4. Enter the user PIN (if applicable) and press Next.

NOTE

For details on defining user ID or PIN, refer to the GR8 Instruction Manual.

Figure 14.

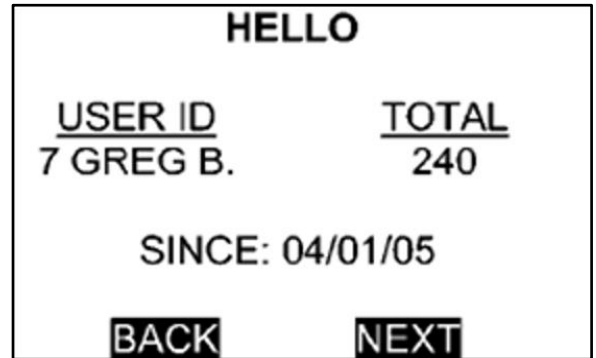


Battery Maintenance During PDS

Battery Charging Procedure (continued)

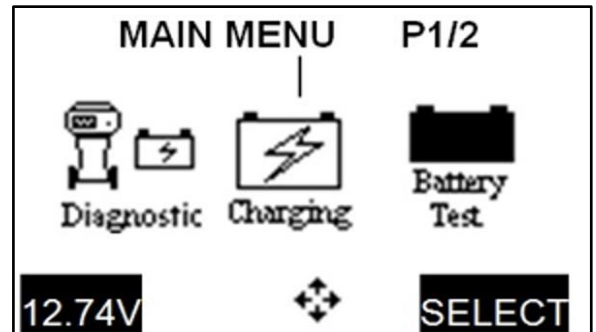
5. Press Next when the Hello screen appears to proceed to the Main Menu.

Figure 15.



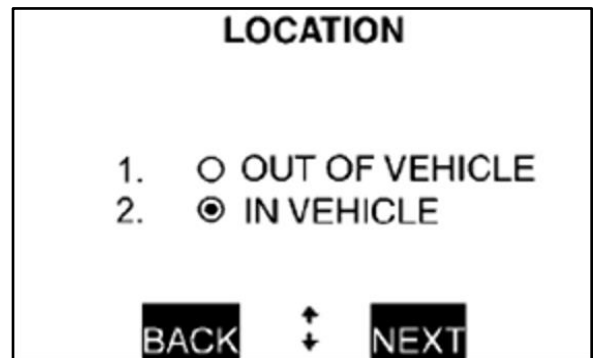
6. Select Diagnostic from the Main Menu screen and press Select.

Figure 16.



7. Select In Vehicle and press Next.

Figure 17.



Battery Maintenance During PDS

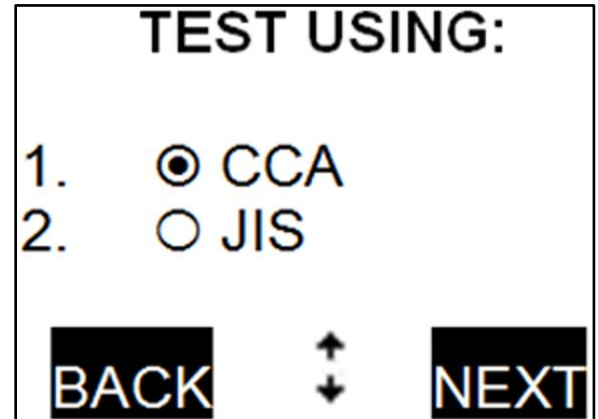
Battery Charging Procedure (continued)

8. Select CCA and press Next.

NOTE

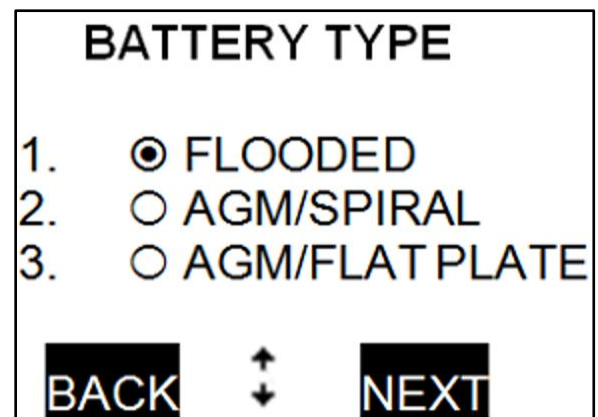
The battery can be tested using either CCA or JIS. If JIS is selected, go to step 11.

Figure 18.



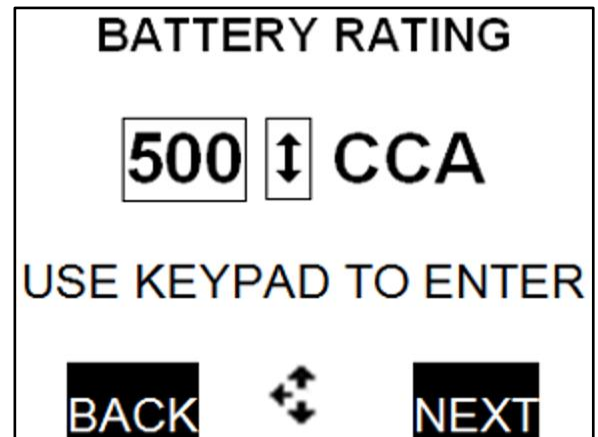
9. Select the appropriate battery type and press Next.

Figure 19.



10. Enter the appropriate battery rating and press Next.

Figure 20.

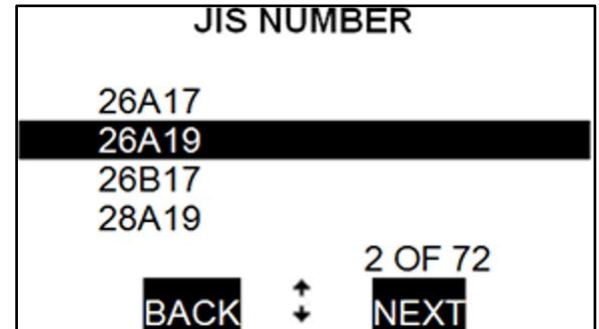


Battery Maintenance During PDS

Battery Charging Procedure (continued)

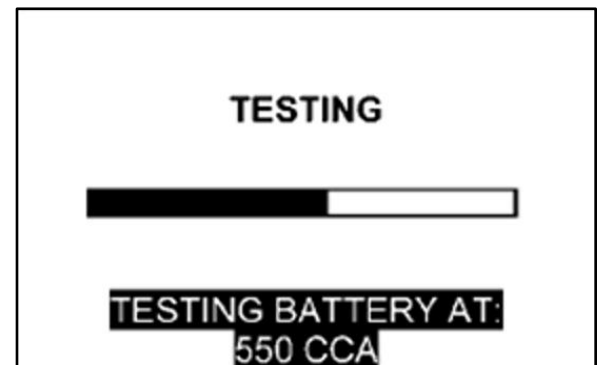
11. Select JIS number and press Next.

Figure 21.



The battery will be tested before charging occurs.
The progress bar fills in across the screen during testing.

Figure 22.



Testing (continued).

Figure 23.

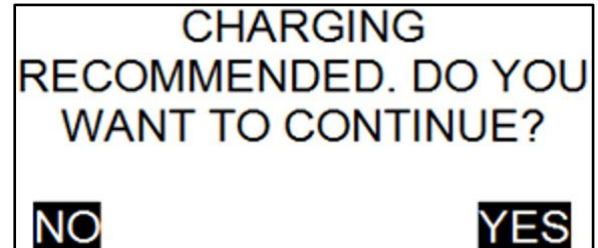


Battery Maintenance During PDS

Battery Charging Procedure (continued)

12. Charging recommended (Yes).

Figure 24.



Charging will begin now.

Battery Charging Results

Once the test completes, proceed with one of the procedures below according to the battery condition results.

- **Battery Condition: “GOOD BATTERY”**

Return the battery to service.

- **Battery Condition: “REPLACE BATTERY”**

Replace the battery. Print the Results screen for warranty code by pressing Print.

NOTE

A Replace Battery result may also mean a poor connection between the battery cables and the battery. Retest the battery using the out-of-vehicle test BEFORE replacing it.

- **Battery Condition: “BAD CELL–REPLACE”**

Replace the battery. This decision indicates a bad cell within the battery. Print the Results screen for warranty code by pressing Print.

Battery Maintenance During PDS

Battery Replacement Procedure

If a vehicle battery needs to be replaced for a warrantable condition, complete a Warranty Battery Label, and affix it to the failed battery for proper warranty parts and claim processing. **Include the Vehicle Identification Number (VIN) and warranty code on the Warranty Battery Label.**

Figure 25.

WARRANTY BATTERY LABEL ETIQUETA PARA BATERIA DE GARANTIA <small>(Please Print / Llénesse con Letra de Molde Por Favor)</small>		
_____ Dealer Code Código de Agencia		
_____ Vehicle Identification Number (VIN) Número de Identificación de Vehículo (NIV)		
Repair Order No. No. de Orden de Reparación	Repair Date Fecha de Reparación	Failure Code Código de Falla
Veh. Date of First Use Fecha de Primer Uso del Veh.	Original Install Date Fecha de Instalación Original <small>(Svc. part replacement only/ solamente para el reemplazo de partes de servicio)</small>	Battery Mos. In Svc. Número de meses que Batería está en servicio
08/02		00404-BTTRY-LABEL

Recommended Battery Maintenance

In addition to this NEW pre-delivery battery test, a monthly battery inspection is still required for stored vehicles. If your dealership is located in an area subject to extreme temperatures (hot or cold), periodic maintenance may need to be performed more frequently.

Refer to long-term storage guidelines.

To reduce parasitic battery drain on vehicles in storage for 1 week or more, the negative (-) battery cable should ALWAYS be disconnected to reduce battery discharge. When the negative (-) battery cable is reconnected, check and reset electrical components, such as the clock, radio, etc., and re-initialize ALL applicable systems/functions.

Refer to the appropriate model and year service bulletins for specific details.