

# Battery Maintenance During PDS

**Service Category** General

**Section** Pre-Delivery Service

**Market** USA

Toyota Supports  
ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2021	ES250, ES300H, ES350, GX460, IS300, IS350, LC500, LC500C, LC500H, LS500, LS500H, LX570, NX300, NX300H, RC F, RC300, RC350, RX350, RX450H, UX200, UX250H	

### REVISION NOTICE

September 11, 2020 Rev1:

- Applicability has been updated to include 2021 model year ES 250 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 service life. These conditions include storage period, temperature, parasitic drain, and battery load. Because of these factors, battery inspection and maintenance are required in order to ensure proper operation and optimal battery life.

As a matter of policy, Lexus 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, no more than 48 hours before delivery to the customer.**

## Warranty Information

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

## Battery Maintenance During PDS

### Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Digital Battery System Analyzer and Printer*	<a href="#">00002-V8150-KIT</a>	1
GR8 Battery Diagnostic Station*	<a href="#">00002-MCGR8</a>	1

\*Essential SST.

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

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

\*Essential SST.

**NOTE**

- Only ONE of the Techstream units listed above is required.
- Software version 15.20.016 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 delivery to the customer.

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

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

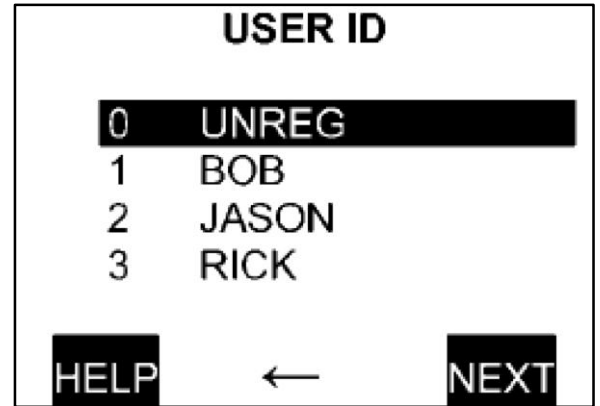
## Battery Maintenance During PDS

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### Battery Inspection Procedure (continued)

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

Figure 1.

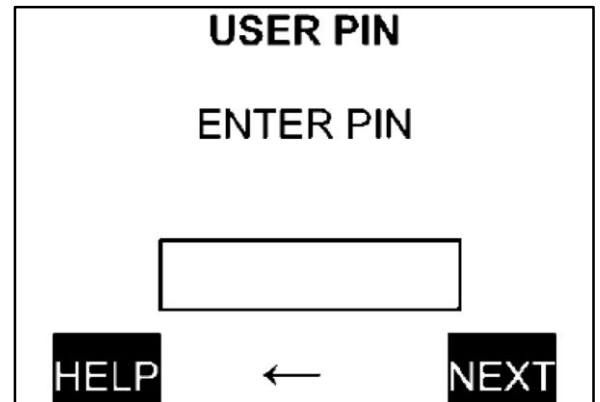


3. Enter the user PIN (if applicable) and press the Next soft key.

**NOTE**

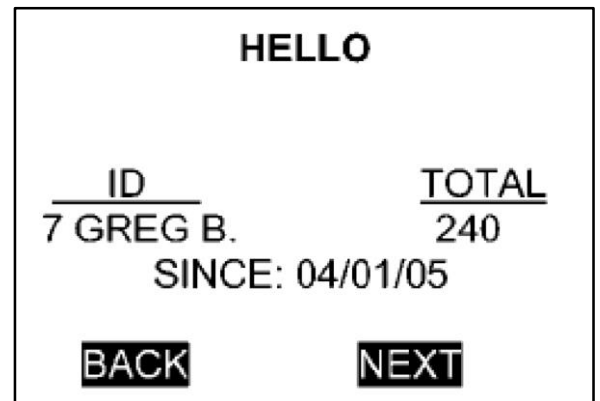
For details on defining user ID or PIN, refer to the NVS-8150 Instruction Manual.

Figure 2.



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

Figure 3.



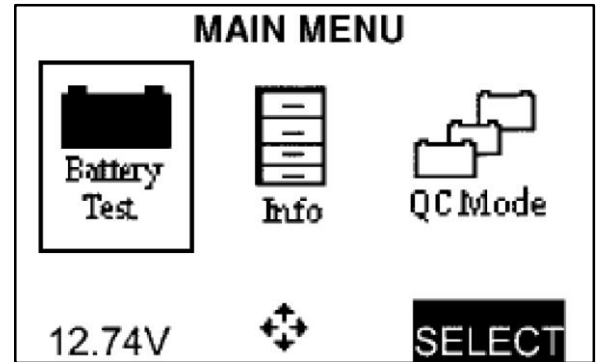
## Battery Maintenance During PDS

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### Battery Inspection Procedure (continued)

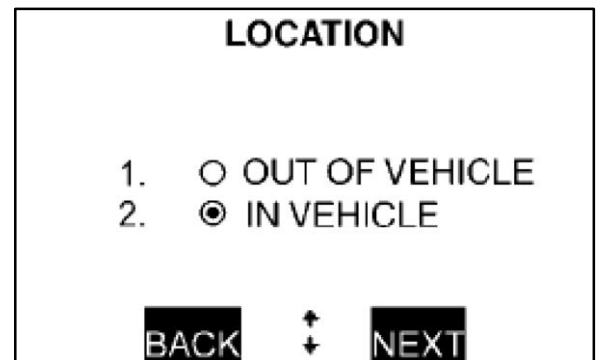
5. Select Battery Test and press the Select soft key.

Figure 4.



6. Select In Vehicle and press the Next soft key.

Figure 5.

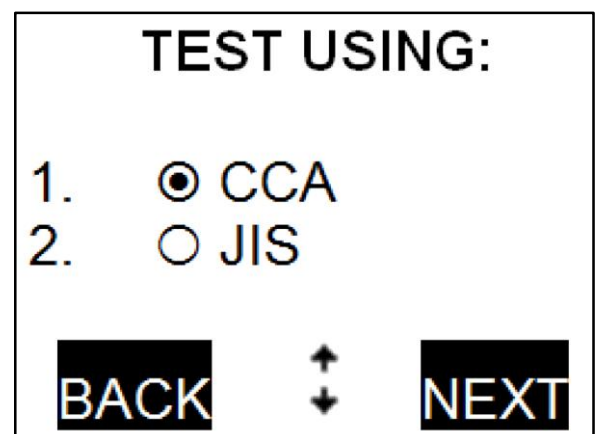


7. Select CCA and press the Next soft key.

**NOTE**

At this time, the battery must be tested using CCA.

Figure 6.



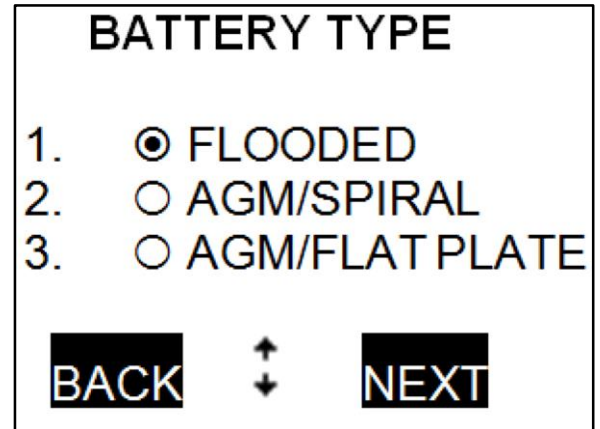
## Battery Maintenance During PDS

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### Battery Inspection Procedure (continued)

8. Select the appropriate battery type and press the Next soft key.

Figure 7.



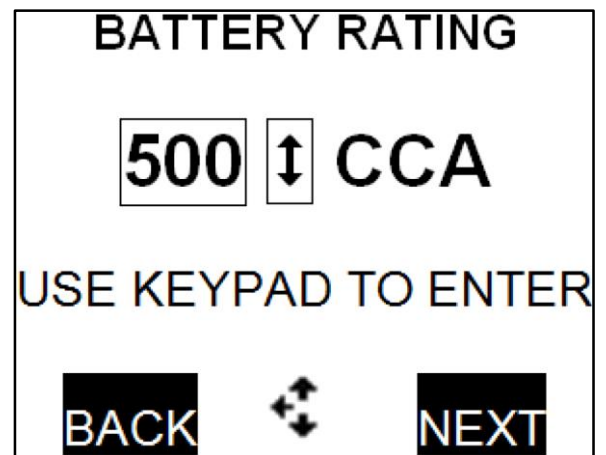
**BATTERY TYPE**

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

BACK ↑↓ NEXT

9. Enter the appropriate battery rating from battery label and press the Next soft key.

Figure 8.



**BATTERY RATING**

500 ↑↓ CCA

USE KEYPAD TO ENTER

BACK ↻ NEXT

## Battery Maintenance During PDS

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### Battery Inspection Procedure (continued)

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

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

11. Read or print the battery test results (press the Print soft key to print).

Figure 9.



Figure 10.

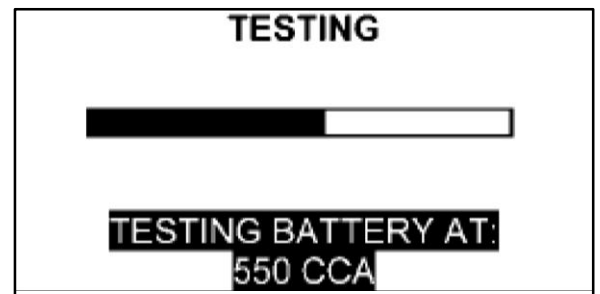
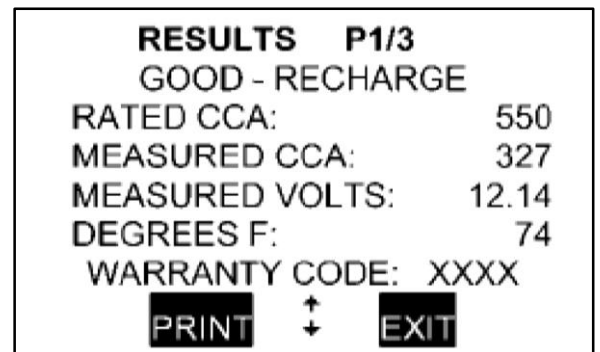


Figure 11.



## Battery Maintenance During PDS

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### 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

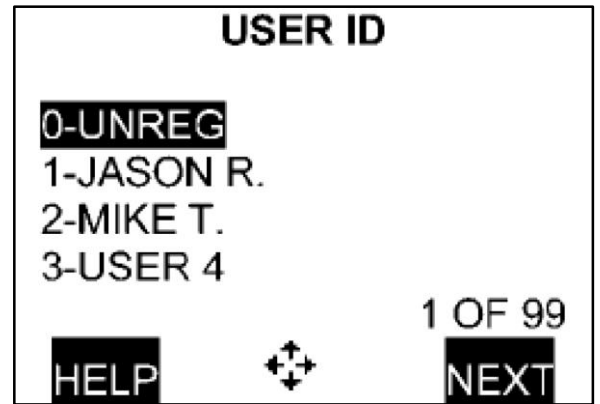
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### Battery Charging Procedure

If the battery requires charging, follow the procedure below using the GR8 battery diagnostic station and printer.

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 the Next soft key.

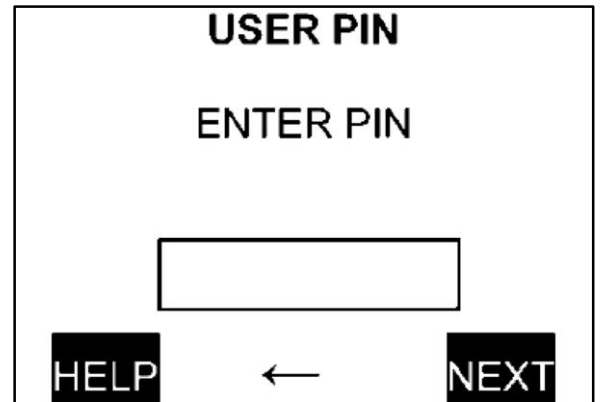
Figure 12.



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

**NOTE**  
 For details on defining user ID or PIN, refer to the [GR8 Instruction Manual](#).

Figure 13.





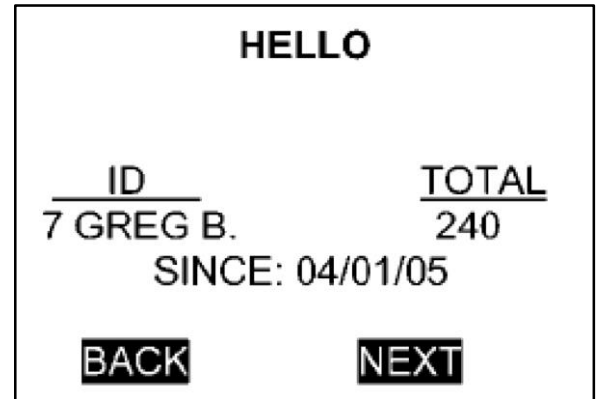
## Battery Maintenance During PDS

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### Battery Charging Procedure (continued)

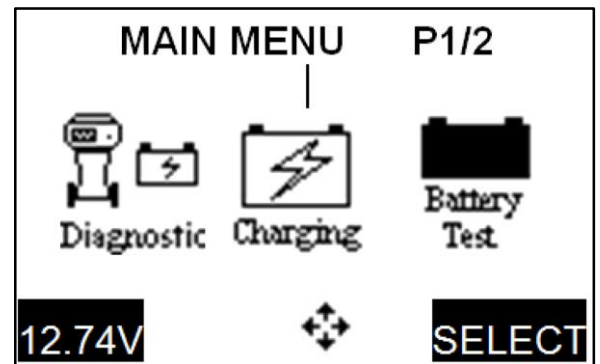
5. Press the Next soft key when the Hello screen appears to proceed to the Main Menu.

Figure 14.



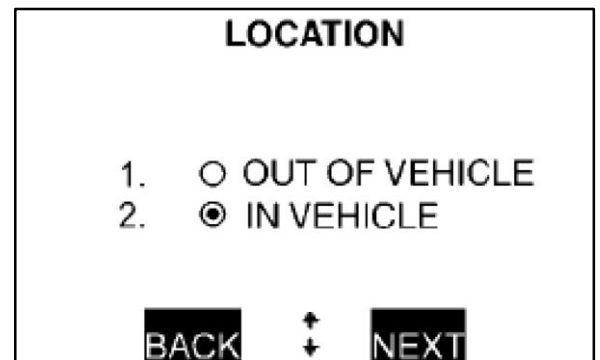
6. Select Diagnostic from the Main Menu screen and press the Select soft key.

Figure 15.



7. Select In Vehicle and press the Next soft key.

Figure 16.



## Battery Maintenance During PDS

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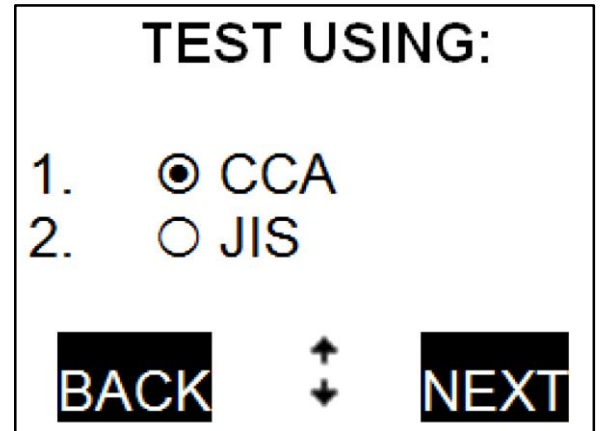
### Battery Charging Procedure (continued)

8. Select CCA and press the Next soft key.

**NOTE**

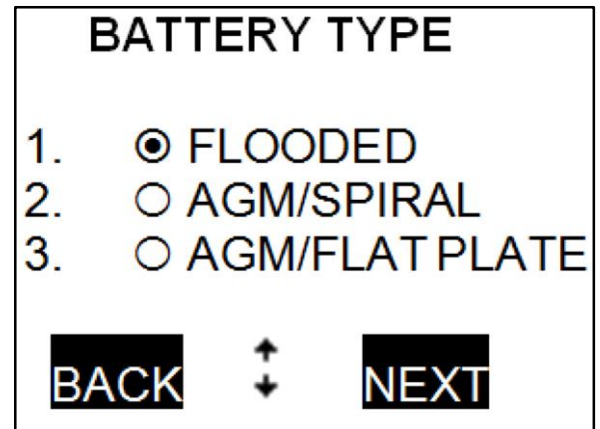
At this time, the battery must be tested using CCA.

Figure 17.



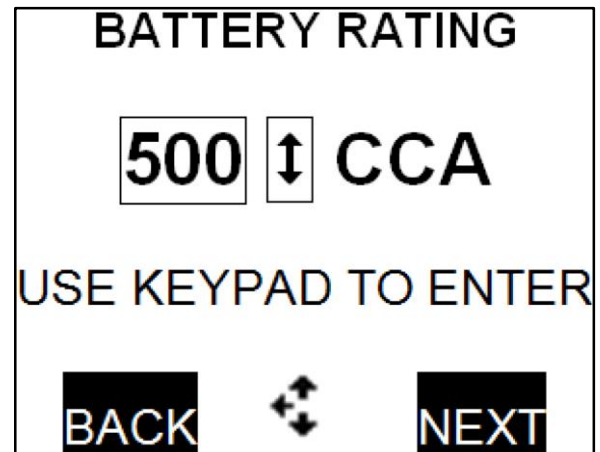
9. Select the appropriate battery type and press the Next soft key.

Figure 18.



10. Enter the appropriate battery rating from battery label and press the Next soft key.

Figure 19.



## Battery Maintenance During PDS

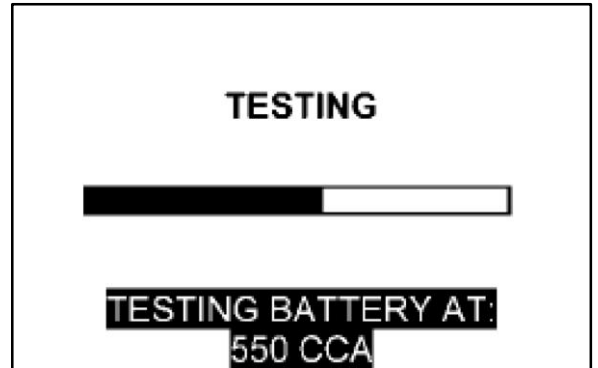
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### Battery Charging Procedure (continued)

The battery will be tested before charging occurs.

The progress bar will fill in across the screen while testing.

Figure 20.



Testing (continued).

Figure 21.



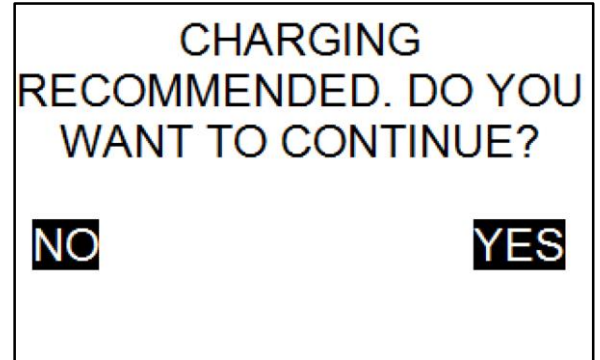
## Battery Maintenance During PDS

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### Battery Charging Procedure (continued)

11. Press the Yes soft key to charge the battery.

**Figure 22.**



Charging will begin now.

### Battery Charging Results

Once the test completes, continue 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 the warranty code by pressing the Print soft key.

**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 the warranty code by pressing the Print soft key.

## 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 23.**

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, periodic battery maintenance is still required for stored vehicles. If your dealership is 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 that are placed 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 applicable model and model year Repair Manual for specific details.