

# Battery Maintenance During PDS

Service  
Category

Section Pre-Delivery Service

Market USA

Toyota Supports  
ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2017	4Runner, 86, Avalon, Avalon HV, Camry, Camry HV, Corolla, Highlander, Highlander HV, Land Cruiser, Mirai, Prius, Prius C, Prius Prime, Prius V, RAV4, RAV4 HV, Sequoia, Sienna, Tacoma, Tundra, Yaris, iA, iM	

### REVISION NOTICE

June 22, 2016 Rev1:

- Numbering revised to reflect current procedure.
- 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 in order 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 assure proper State of Charge (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 State of Charge (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*	<a href="#">00002-V8150-KIT</a>	1
GR8 Battery Diagnostic Station*	<a href="#">00002-MCGR8</a>	

**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 11.10.034 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

## Battery Maintenance During PDS

### Battery Inspection Procedure

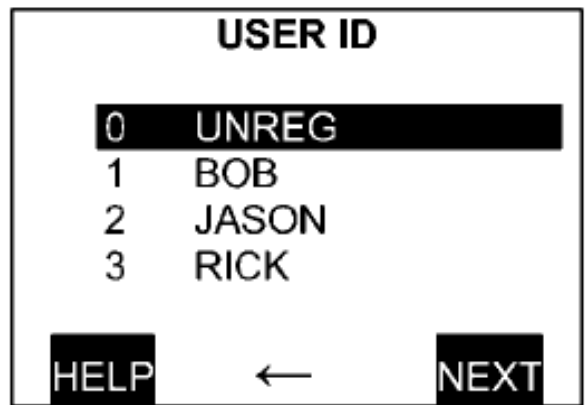
ALL vehicles are to be inspected according to the procedures listed below using the Digital Battery System Analyzer (P/N 00002–V8150–KIT) no more than 48 hours prior to customer vehicle delivery.

**IMPORTANT NOTE FOR HYBRID/FUEL CELL VEHICLES**

In hybrid/fuel cell vehicles, the Digital Battery System Analyzer (SST P/N 00002–V8150–KIT) is to be used **ONLY** on the AUXILIARY (12 volt) battery.

1. Connect test clamps to the battery. (If the analyzer does NOT power up automatically, press the *POWER* button.)
2. Select the correct **USER ID** (if applicable) and press the *NEXT* soft key.

Figure 1.

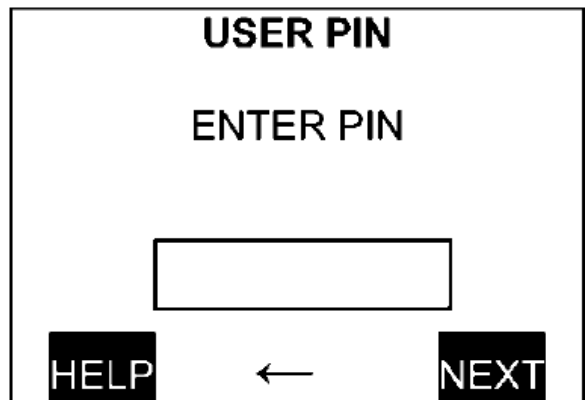


3. Enter **USER PIN** (if applicable) and press the *NEXT* soft key.

**NOTE**

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

Figure 2.

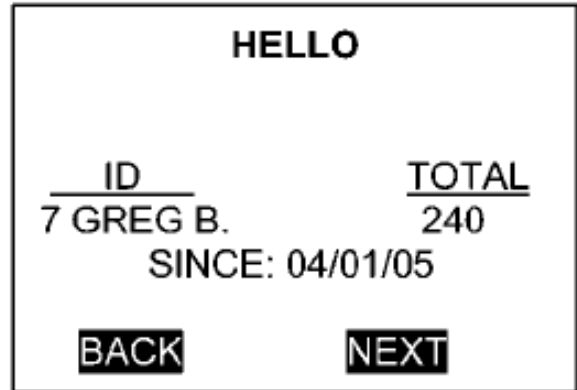


## Battery Maintenance During PDS

### Battery Inspection Procedure (Continued)

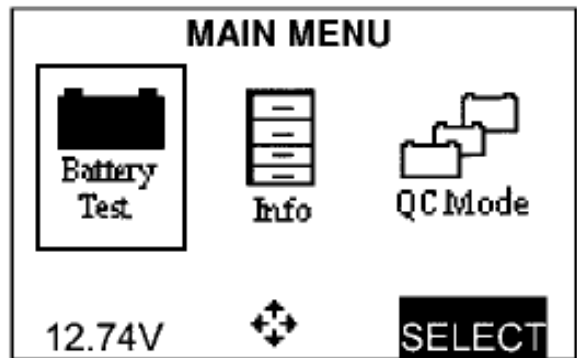
4. Press the *NEXT* soft key (if applicable) when the **HELLO** screen appears to proceed to the Main Menu.

Figure 3.



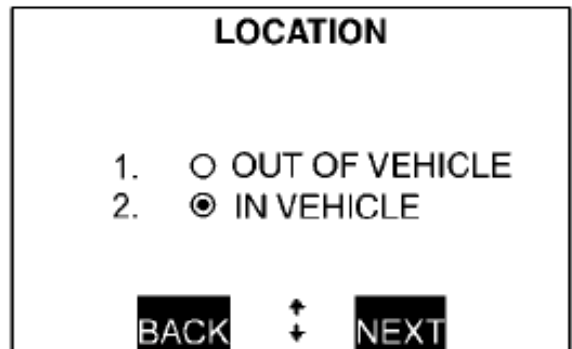
5. Choose **BATTERY TEST** and press the *SELECT* soft key.

Figure 4.



Select *IN VEHICLE* and press the *NEXT* soft key.

Figure 5.



## Battery Maintenance During PDS

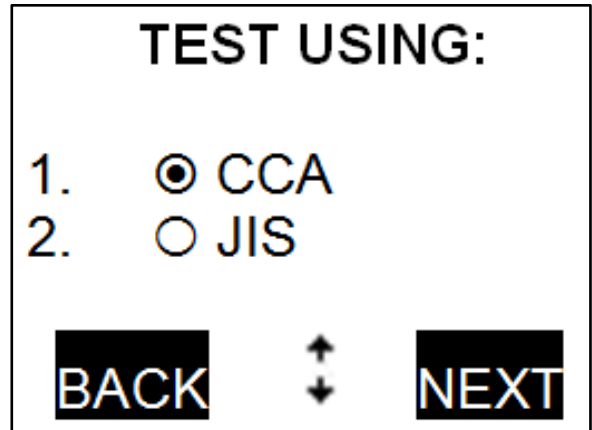
### Battery Inspection Procedure (Continued)

6. Select CCA and press the *NEXT* soft key.

**NOTE**

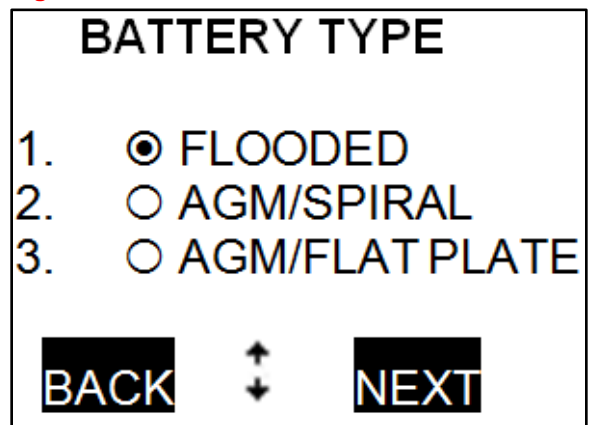
The battery can be tested using either CCA or JIS. If JIS is selected, go to Step 10.

**Figure 6.**



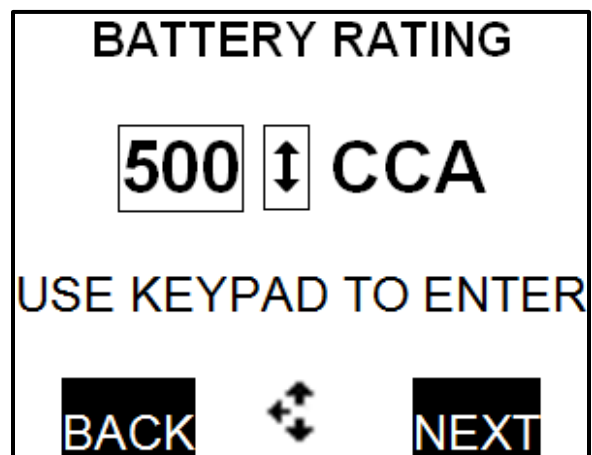
7. Select the appropriate battery type and press the *NEXT* soft key.

**Figure 7.**



8. Enter the appropriate battery rating and press the *NEXT* soft key.

**Figure 8.**



## Battery Maintenance During PDS

### Battery Inspection Procedure (Continued)

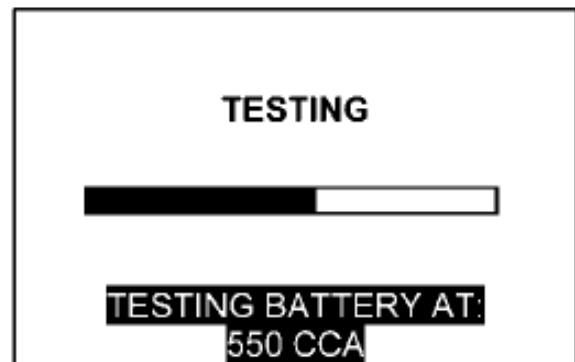
9. Aim the infrared (IR) temperature measurement sensor at the negative (-) battery post and press the *NEXT* soft key.

**Figure 9.**



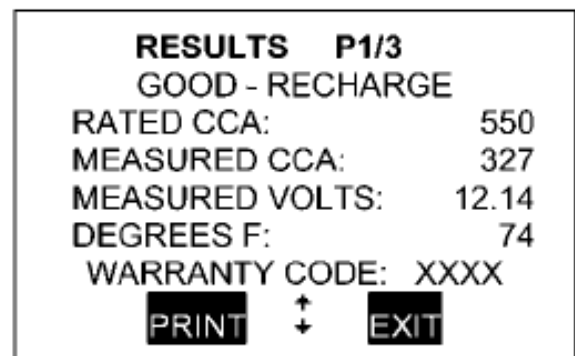
The battery is now being tested.  
The progress bar fills in across the screen while testing.

**Figure 10.**



10. Read or print the battery test results (press the *PRINT* soft key to print).

**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.

**A. Battery Condition: “GOOD BATTERY”**

Return the battery to service.

**B. Battery Condition: “GOOD–RECHARGE”**

Fully charge the battery using the GR8 Battery Diagnostic Station (P/N 00002–MCGR8) and return it to service.

**C. Battery Condition: “CHARGE & RETEST”**

Fully charge the battery using the GR8 Battery Diagnostic Station (P/N 00002–MCGR8) and retest.

**NOTE**

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

**D. 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.

**E. Battery Condition: “BAD CELL–REPLACE”**

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

**CAUTION**

- If “**FROZEN BATTERY**” is displayed 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

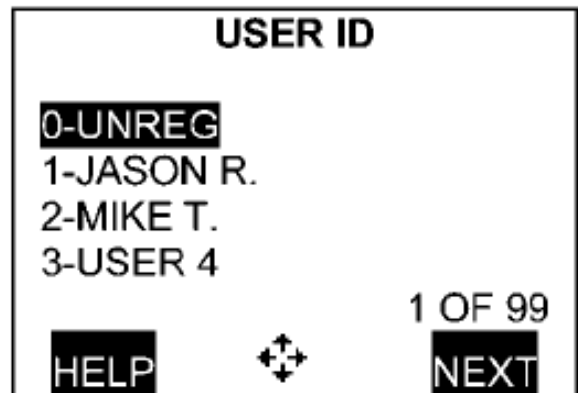
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### Battery Charging Procedure

If the battery requires charging, follow the procedures below using the GR8 Battery Diagnostic Station (P/N 00002–MCGR8).

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 appropriate **USER ID** (if applicable) and press the *NEXT* soft key.

**Figure 12.**





## Battery Maintenance During PDS

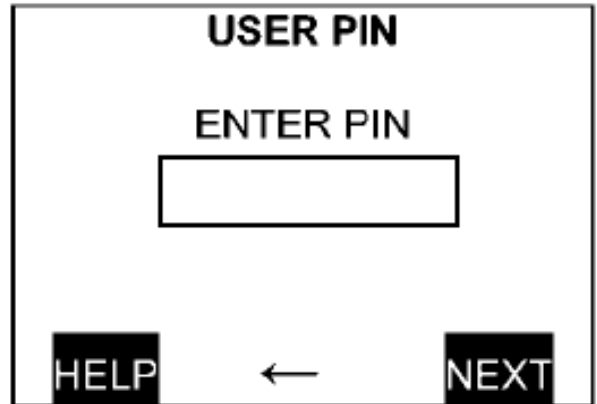
### Battery Charging Procedure (Continued)

4. Enter **USER PIN** (if applicable) and press the **NEXT** soft key.

**NOTE**

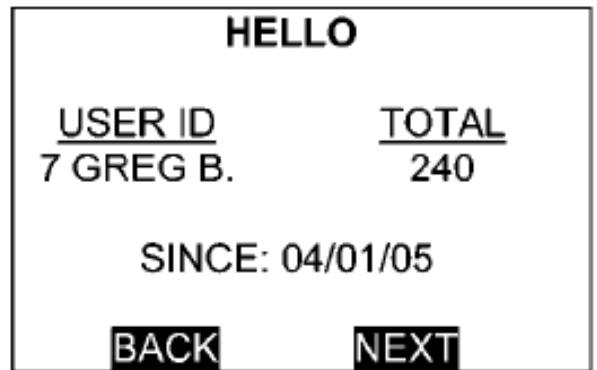
For details on defining **USER ID** or **PIN**, refer to the **GR8 Instruction Manual**.

Figure 13.



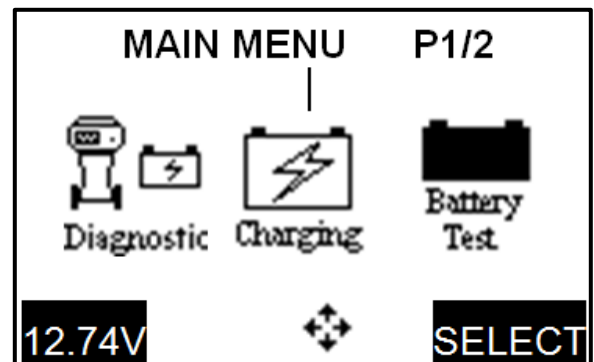
5. Press the **NEXT** soft key when the **HELLO** screen appears to proceed to the Main Menu.

Figure 14.



6. Select **DIAGNOSTIC** from the Main Menu screen and press the **SELECT** soft key.

Figure 15.



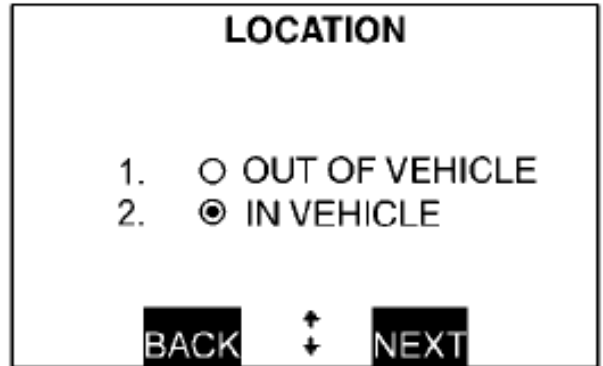
## Battery Maintenance During PDS

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### Battery Charging Procedure (Continued)

7. Select *IN VEHICLE* and press the *NEXT* soft key.

Figure 16.

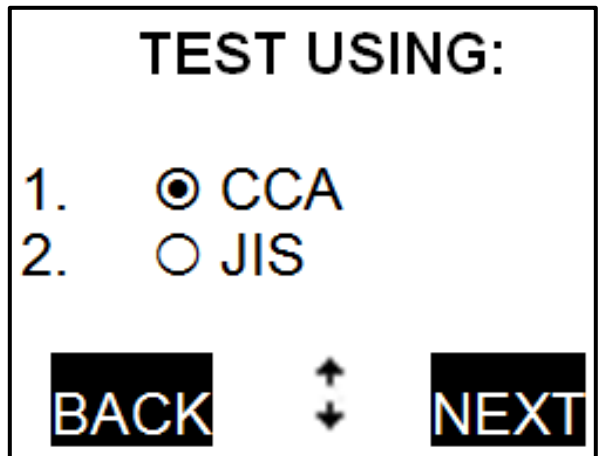


8. Select *CCA* and press the *NEXT* soft key.

**NOTE**

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

Figure 17.



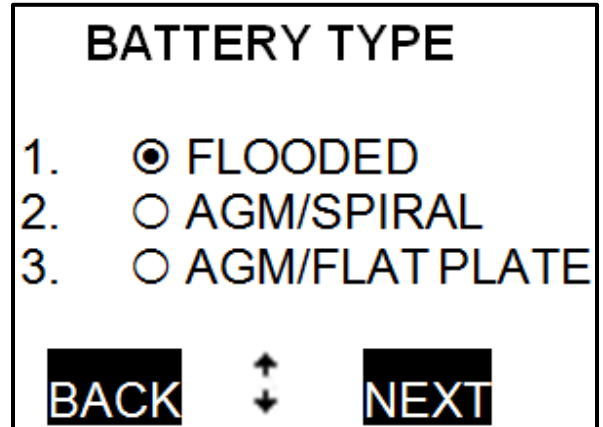
## Battery Maintenance During PDS

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### Battery Charging Procedure (Continued)

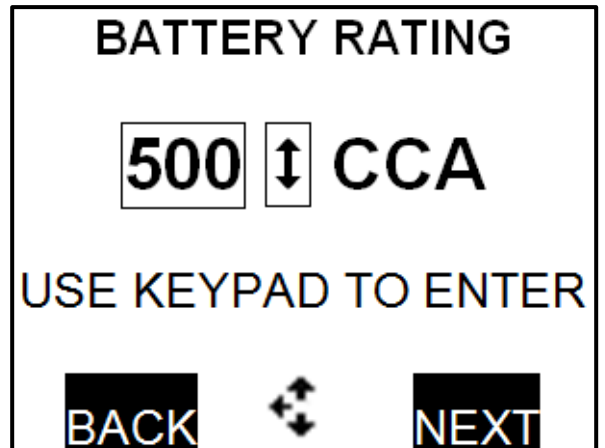
9. Select the appropriate battery type and press the *NEXT* soft key.

Figure 18.



10. Enter the appropriate battery rating and press the *NEXT* soft key.

Figure 19.

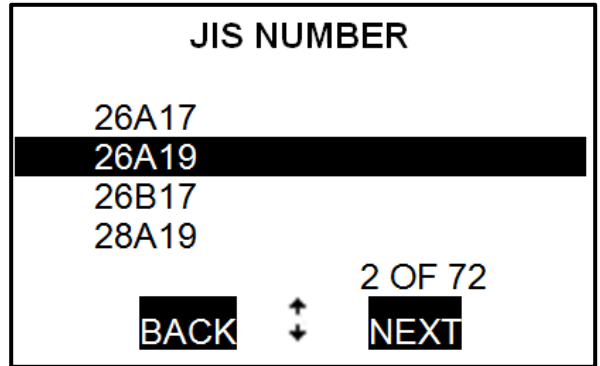


## Battery Maintenance During PDS

### Battery Charging Procedure (Continued)

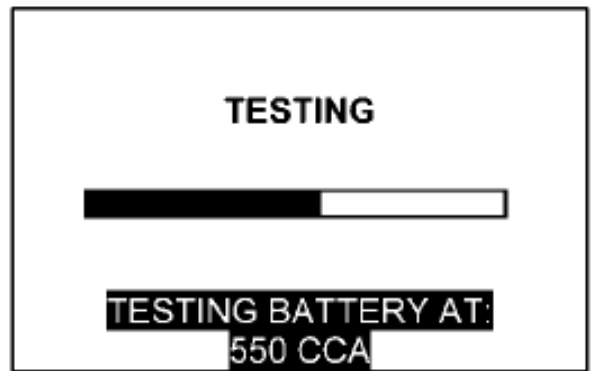
11. Select **JIS** number and press the *NEXT* soft key.

**Figure 20.**



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

**Figure 21.**



Testing (continued)

**Figure 22.**



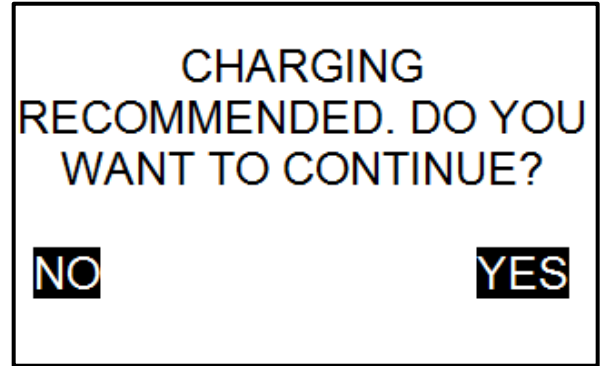
## Battery Maintenance During PDS

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### Battery Charging Procedure (Continued)

12. Charging recommended (Yes/No)

**Figure 23.**



Charging will continue now.

### Battery Charging Results

Once the test completes, proceed with one of the procedures below according to the **BATTERY CONDITION** results.

**A. Battery Condition: “GOOD BATTERY”**

Return the battery to service.

**B. Battery Condition: “REPLACE BATTERY”**

Replace the battery. Print the **RESULTS** screen for 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.

**C. Battery Condition: “BAD CELL–REPLACE”**

Replace the battery. The decision indicates a bad cell within the battery. Print the **RESULTS** screen for 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 24.**

WARRANTY BATTERY LABEL ETIQUETA PARA BATERIA DE GARANTIA <small>(Please Print / Llénese 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, please 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 Repair Manual for specific details.