

Technical Service Information Bulletin March 30, 2006

Title: BATTERY MAINTENANCE FOR IN-STOCK VEHICLES & PRE-DELIVERY Models:

All Models & Model Years

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TSIB REVISION NOTICE:

November 28, 2006: "Required SSTs" have been updated (SST P/N 00002–MCGR8 has been added). "Recommended Equipment" has been removed (superseded by SST P/N 00002–MCGR8). Screen prints and text have been updated in the "Battery Inspection Procedure". "Battery Service Procedure" has been renamed "Battery Inspection Results". Two sections have been added for SST P/N 00002–MCGR8: "Battery Charging Procedure" and "Battery Charging Results". PLEASE READ ENTIRE TSIB.

Previous versions of this TSIB should be discarded.

TSIB UPDATE NOTICE:

The information contained in this TSIB supersedes TSIB No. PG009–02. TSIB No. PG009–02 is now obsolete and 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, 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 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.

Applicable • All models and model years. Vehicles

Warranty	OP CODE	DESCRIPTION	TIME	OFP	T1	T2
Information	N/A	Not Applicable to Warranty	-	-	-	—



Required SSTs	ITEM NO.	SPECIAL SERVICE TOOLS (SSTs)	PART NUMBER	QTY	DRW**
	1	Digital Battery System Analyzer* NOTE: • All components from this kit/set are required	00002–V8150–KIT	1	24
	2	GR8 Battery Diagnostic Station* NOTE: • All components from this kit/set are required	00002-MCGR8	1	N/A***

* Essential SSTs.

** Drawer number in SST Storage System.

*** Not located in SST Storage System.

NOTE:

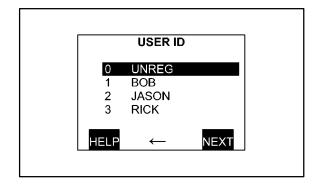
- The Digital Battery System Analyzer (P/N 00002–V8150–KIT) supersedes the Midtronics MICROPRO 815 Digital Battery Tester (P/N 00002–MP815–T). P/N 00002–MP815–T is now obsolete.
- The GR8 Battery Diagnostic Station (P/N 00002–MCGR8) supersedes the Automatic Trickle Charger (P/N 00002–YA122–01) and Fast Battery Chargers (Associated P/N ASE6003 and Christie P/N CAPPDQ). P/N 00002–YA122–01, ASE6003, and CAPPDQ are now obsolete.
- Additional SSTs may be ordered by calling SPX/OTC at 1-800-933-8335.

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

IMPORTANT NOTE FOR HYBRID VEHICLES:

In hybrid 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.)
- Select the correct USER ID (if applicable) and press the NEXT soft key.

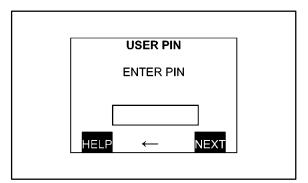


Battery 3. Enter USER PIN (if applicable) and Inspection press the **NEXT** soft key. Procedure

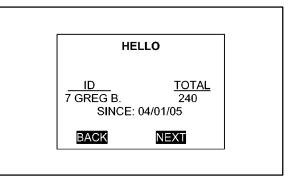
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NOTE:

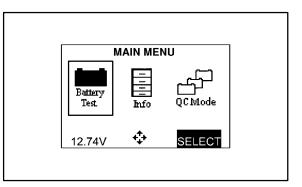
For details on defining USER ID or PIN, refer to the NVS-8150 Instruction Manual.



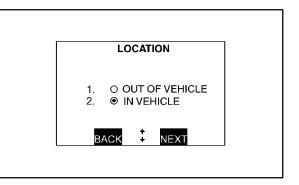
4. Press the **NEXT** soft key (if applicable) when the **HELLO** screen appears to proceed to the Main Menu.



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



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

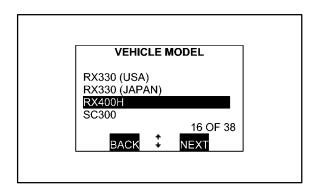


Battery Inspection Procedure (Continued) 7. Select **MODEL** and press the **NEXT** soft key.

NOTE:

- "MODEL" or "STOCK #" MUST be used to receive a warranty code if the tester determines that the battery is bad.
- "MODEL" and "STOCK #" are linked to custom algorithms and are the most accurate testing procedures.
- 8. Select the appropriate model and press the **NEXT** soft key.

	TEST USING:	
	● MODEL ○ STOCK # ○ CCA ○ JIS	
В	ACK + NEX	кт



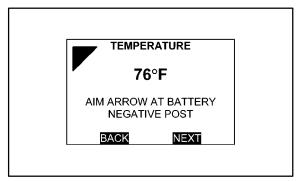
9. Select **OEM** battery type and press the **NEXT** soft key.

	VEHIC	CLE	NODEL	
1.	ELECT E OEN OEN	A		
	BACK	+ +	NEX	T

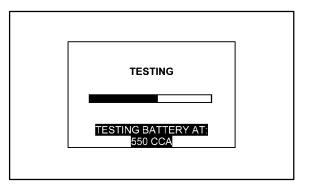
10. Choose the correct battery (model number and CCA) and press the **NEXT** soft key.

BATTE	RY RATING	
80D25L (582) 46B24L (325) 55D23L (356)	CCA)	
BACK	: NEXT	

Battery
Inspection
Procedure
(Continued)11. 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 fills in across the screen while testing.



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

RESULTS P1/3	
GOOD - RECHAR	GE
RATED CCA:	550
MEASURED CCA:	327
MEASURED VOLTS:	12.14
DEGREES F:	74
WARRANTY CODE:	XXXX
PRINT 🗘 EX	

 Battery
 Once the test completes, proceed with 1 of the 5 procedures below according to the

 Inspection
 BATTERY CONDITION results.

1. Battery Condition: "GOOD BATTERY"

Return the battery to service.

2. Battery Condition: "GOOD-RECHARGE"

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

Battery 3. Battery Condition: "CHARGE & RETEST"

Inspection Results (Continued)

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.

4. 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.

5. 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 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.
- Select appropriate USER ID (if applicable) and press the NEXT soft key.

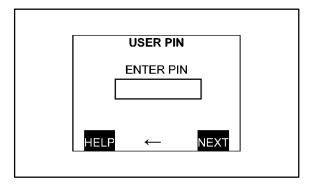
		USER I	D	7
1 2 3	-UNREG -JASON -MIKE T -USER 4 HELP	R.	1 OF 99 NEXT)

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

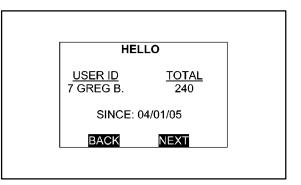
Procedure (Continued)

NOTE:

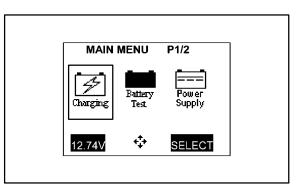
For details on defining USER ID or PIN, refer to the GR8 Instruction Manual.



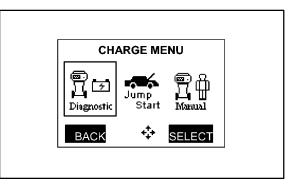
5. Press the **NEXT** soft key when the HELLO screen appears to proceed to the Main Menu.



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



7. Select **DIAGNOSTIC** from the Charge Menu screen and press the **SELECT** soft key.

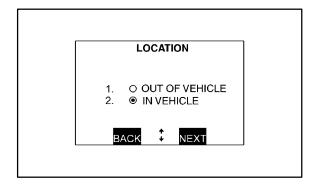


Battery 8. Select IN VEHICLE and press the

Charging NEXT soft

Procedure (Continued)

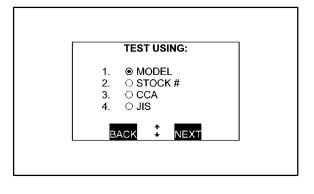
NEXT soft key.

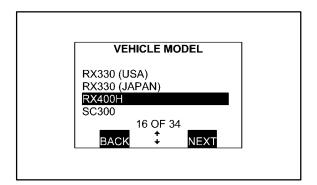


Select MODEL and press the NEXT soft key.

NOTE:

- "MODEL" or "STOCK #" MUST be used to receive a warranty code if the tester determines that the battery is bad.
- "MODEL" and "STOCK #" are linked to custom algorithms and are the most accurate testing procedures.
- 10. Select the appropriate model and press the **NEXT** soft key.

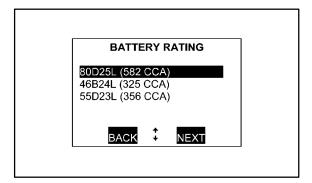


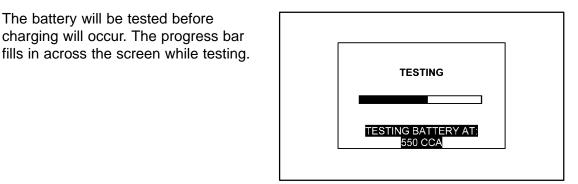


11. Select **OEM** battery type and press the **NEXT** soft key.

v		NODEL	
1. ④	OEM	ERY TYPE: PLACEMENT	
BA	ск ‡	NEXT	

Battery 12. Choose the correct battery (model Charging number and CCA) and press the Procedure NEXT soft key. (Continued)





The charger starts charging upon completion of testing. The screen displays the status of charge.

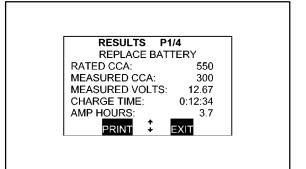
The battery will be tested before charging will occur. The progress bar

CHAF	RGING	
VOLTS:		15.52
AMPS:		42.5
AMP HOURS:		0.7
MAX TIME	:	0:03:35
DIAGNOS	тіс мо	DDE

- 13. Read or print the battery test results.
 - P 1/4: BATTERY RESULTS
 - P 2/4: STATE OF CHARGE (SOC)
 - P 3/4: STATE OF HEALTH (SOH)
 - P 4/4: WARRANTY CODE

To print:

Align the Midtronics IR Printer (P/N 00002-A0870, component of P/N 00002-V8150-KIT) in front of the IR port on the charger and select the PRINT soft key.



Battery Once the test completes, proceed with 1 of the 3 procedures below according to the Charging BATTERY CONDITION results.

1. Battery Condition: "GOOD BATTERY"

Return the battery to service.

2. 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.

3. 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 Replacement 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.



Battery Recommended Battery Maintenance:

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.

To reduce parasitic battery drain on vehicles in storage for one 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 service bulletins for specific details. For example:

- TSIB No. PD010–05, "Power System Initialization During PDS" (2005 model year)
- TSIB No. PD009–06, "Power System Initialization During PDS" (2006 model year)