

Classification:

Reference:

Date:

EL99-017p

ITB99-037p

March 11, 2010

## BATTERY / STARTING / CHARGING SYSTEM TESTING

This bulletin has been amended. The Service Information has been updated. Please discard all earlier versions.

**APPLIED VEHICLES:** All Infiniti

### SERVICE INFORMATION

The Midtronics GR-8 – Battery and Electrical Diagnostic Station is the factory-approved battery, starter, and alternator tester.

- For warranty documentation purposes, as of September 30, 2008 the GR-8 is the only approved diagnostic tool for batteries, starters, and alternators.
- Print-outs from this tester are required for claim reimbursements related to batteries, starters, and/or alternators.
- For additional information regarding claims reimbursements refer to the current Infiniti Assurance Products Resource Manual.
- For the complete GR-8 User Guide, refer to ASIST – TOOLS & EQUIPMENT.
- Additional tools and replacement parts can be ordered from TECH-MATE at 1-800-662-2001—option 1.
- This essential tool was shipped to your dealership and invoiced to your Infiniti Non-Vehicle account in three equal installments of \$641.00 (plus applicable taxes) in accordance with your dealer agreement with Nissan North America, Inc. This price includes both the GR8-1200-NI and the EXP-800-NI shipped in April 2008.



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Infiniti vehicles equipped with standard lead/acid batteries use one of two different types with unique battery rating specifications: JIS & CCA.

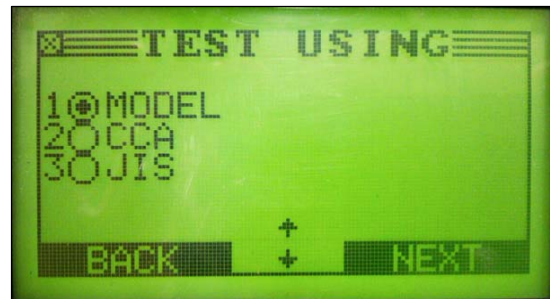
JIS = Japan Industrial Standard, used for Japan produced batteries  
CCA = Cold Cranking Amps, standard for North American produced batteries

#### IMPORTANT:

- JIS batteries have different testing specifications than CCA batteries.
- If you must use the GR-8 Battery Tester in a mode other than MODEL mode, JIS Mode **MUST ALWAYS BE USED** for JIS batteries otherwise an incorrect result will occur. NEVER test a JIS battery using the CCA test in the GR-8; the test software in the GR-8 is different for JIS and CCA modes. ANY CCA value you may have for a JIS-type battery is inaccurate for testing purposes.

**ALWAYS** test with the GR-8 using the **MODEL** mode (if available).

- Selecting **MODEL** and vehicle type will automatically select the proper JIS or CCA value for the Original Equipment battery.
- If the applicable vehicle is not listed, update the GR-8 to make sure it has the most recent data package. <sup>(1)</sup>



<sup>(1)</sup> To run the Midtronics Update Wizard for the GR-8 tester in CONSULT III:

- Make sure the cables from the GR-8 to the multitasker are connected and both units are turned on.
- Click on the ASIST icon.
- Click on INFO. Tool Box.
- Select Midtronics GR-8.
- Midtronics Update Wizard file screen displays.
- Click on Change MUP File.
- The Select a MUP file window displays with the path:  
C:\ProgramFiles\Midtronics\MUW.
- Select 192-725C and click OK.
- Click on next and follow the prompts on the Midtronics Update Wizard screen.

If the applicable vehicle still is not listed:

- 1) Determine which type of battery (CCA or JIS) is installed in the vehicle. See page 3 for descriptions of each battery.
- 2) Select **CCA** or **JIS** in the GR-8 based on the type of battery installed. See page 4 for more information.

## Determine the Battery Type

### Batteries with JIS (Japanese Industrial Standard) Number



- Batteries installed in vehicles produced in Japan have a JIS number embossed in the plastic on top of the battery.
- These vehicles have a VIN that begins with the letter "J".

### Batteries with CCA (Cold Cranking Amps) Number



- Batteries installed in vehicles produced in North America have a CCA number displayed on the label attached to the top of the battery.
- These vehicles have a VIN that begins with a number: 1, 3, or 5.

## Selecting CCA or JIS in the GR-8 Battery Tester

### Vehicles with JIS Battery

- Select **JIS**, then choose the option that matches the **first five (5) characters** of the JIS number on the battery.

NOTE: DO NOT select CCA when testing a JIS battery.

### Vehicles with CCA Battery

- Select **CCA**, then choose the option that matches the **number** following “Cold Cranking Amps” on the battery.

## Reference Material

The following information can be printed and attached to the GR-8, if needed.



### JIS Battery



A JIS battery has the number embossed in the plastic on the top of the battery.



### CCA Battery



A CCA battery has the number displayed on the label attached to the top of the battery.