



Applies To: **2005–12 Models – ALL**

January 12, 2012

Alternator Testing With the GR8 Alternator/Starter Tester (AST)
 (Replaces 10-033, Service Manual Update: Alternator Testing, dated September 14, 2011)

BACKGROUND

Your dealership was recently shipped a GR8 Alternator/Starter Tester (AST) Module to install on your GR8 Diagnostic Battery Station. Once installed, your GR8 AST is capable of testing alternators. All warranty repairs to the alternator require your dealership to use the GR8 AST. The starter test function will be available in the future.

REQUIRED TOOLS

GR8 Alternator/Starter Tester (AST):
 P/N MTRA270 (AST Module only)
 Software version 192-210007H

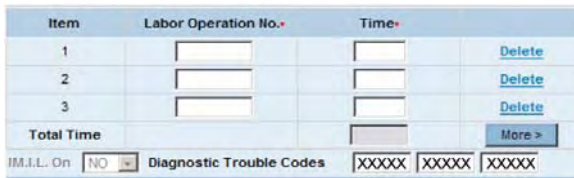
TOOL REQUIREMENTS

The GR8 software must be updated within 3 days of a new software update release.

Refer to S/B 09-034, *GR8 Battery Diagnostic Station Update Information*.

WARRANTY CLAIM INFORMATION

- Effective January 12, 2012, alternator warranty claims will not be accepted without the 15-digit test code from the GR8 AST.
- For all DTC codes resulting in alternator replacement, you must do the alternator test to obtain the 15-digit test code.
- Enter the 15-digit code into warranty claim Diagnostic Trouble Codes fields one, two, and three.



- The alternator claim will be returned to your dealership unpaid with an error code of 2020 if any of the DTC fields are incomplete.
- The alternator test printout that states REPLACE ALTERNATOR must be attached to the repair order or the warranty claim will be subject to debit.
- The alternator claim will be returned to the dealership unpaid with an error code if the tester print-out does not state REPLACE ALTERNATOR.
- Any alternator replaced must have a warranty claim tag attached to it.

- If you have an alternator under warranty that needs replacement for a non-electrical defect (noise or seized), contact your District Parts and Service Manager (DPSM) for help.

OP#	Description	FRT
118100	Replace alternator	Ref. flat rate table
118100F	Test alternator using GR8 AST tester	0.2 hour

Failed Part: Use original equipment part number
 Defect Code: 03214
 Symptom Code: 06702
 Skill Level: Repair Technician
 DTC: Enter 15-digit test code into claim

ALTERNATOR TEST

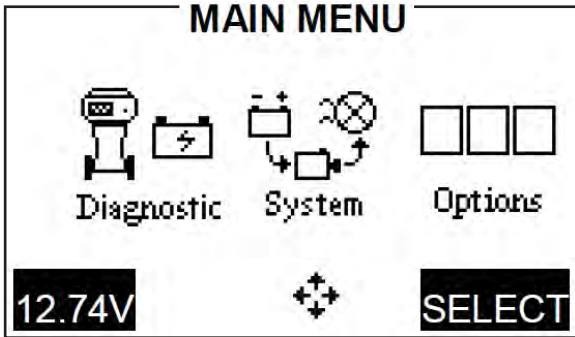
1. Ask the client to describe the events that led up to the problem. Many charging system complaints are caused by leaving the headlights or interior lights on, headlight flicker (a normal condition), or installing aftermarket accessories with a high parasitic draw that drains the battery.
2. Visually inspect the alternator and battery cables and grounding straps to confirm that the connections are clean and tight. If there are any damaged parts or loose connections, repair them as needed.
3. Place the GR8 AST by the driver's side front tire.

NOTE: Make sure the engine is at normal operating temperature before testing. If not, hold the engine speed at 3,000 rpm in Park (P) or Neutral (N) until the radiator fan comes on twice, then let it idle.

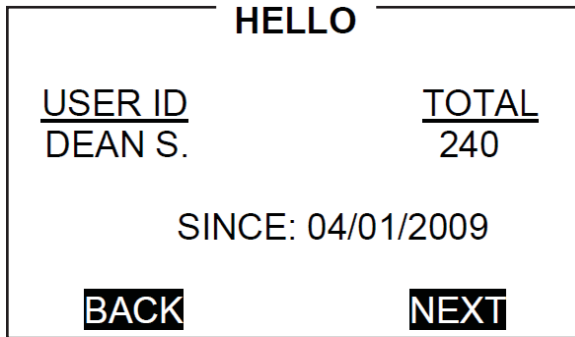


CLIENT INFORMATION: The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by “do-it-yourselfers,” and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Acura automobile dealer.

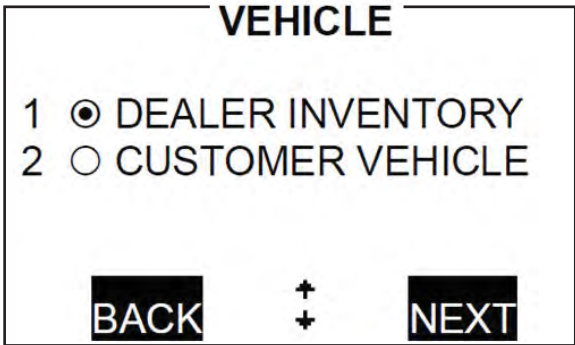
- With the engine OFF, turn the GR8 ON, and connect it to the vehicle:
 - Connect the negative (-) lead to the negative battery terminal.
 - Connect the positive (+) lead to the positive battery terminal.
- In the main menu, scroll over to the SYSTEM icon, and press the SELECT key.



- Use the arrow or numerical keys to select TECHNICIAN ID, and press NEXT to continue.

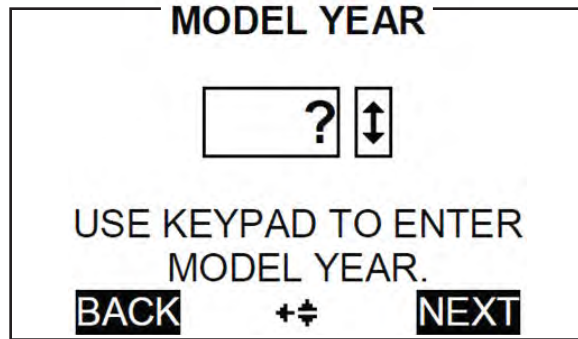


- Select the type of vehicle being tested.

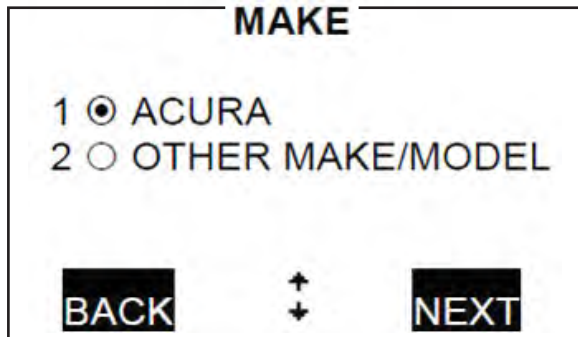


- When prompted, verify that the test cables and clamps are in good working order, and press NEXT to continue.

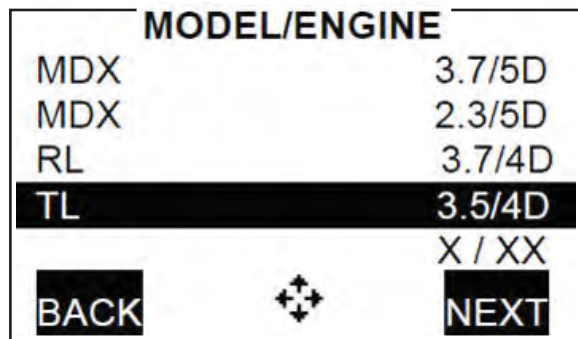
- Scroll up or down to select the model year of the vehicle being tested, and press NEXT to continue.



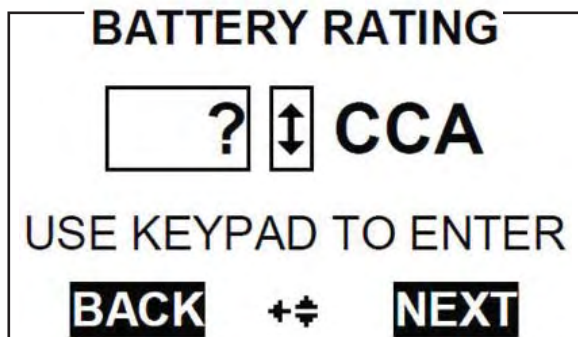
- Select Acura for the vehicle being tested, and press NEXT to continue.



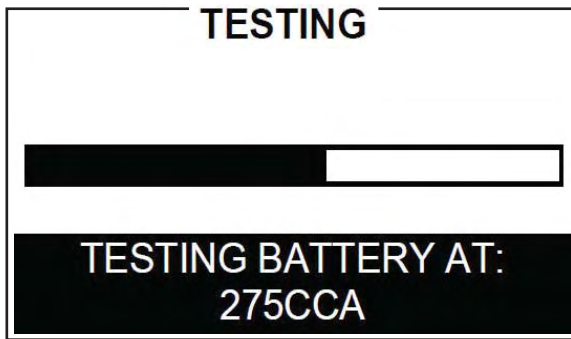
- Scroll through the list and select the Acura MODEL/ENGINE you are testing, and press NEXT to continue.



- Enter the battery's CCA, and press NEXT to begin the battery testing.



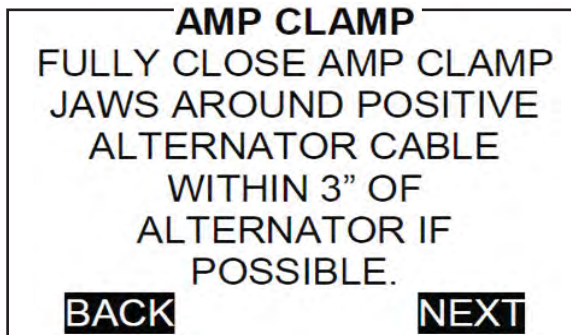
13. Wait until the initial battery testing is complete.



14. Zero the amp clamp following the on-screen instructions, making sure the clamp jaws are completely closed during the procedure.
15. Place the clamp around the positive (+) alternator cable within 3" of the alternator. This will be simple on most models, but on some it may be necessary to be further than 3" away due to obstructions or tight spaces.

NOTE:

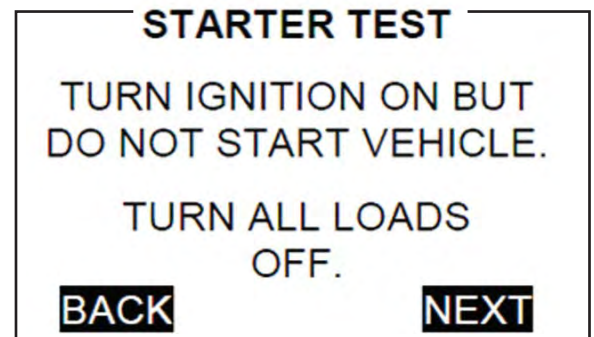
- Testing is done at the B+ cable to help rule out other factors in the vehicle's charging system and to increase testing accuracy.
- Make sure the amp clamp is clear of any moving engine parts.



16 Remove the control module from the top of the GR8, and take it into the vehicle. Press NEXT to continue.

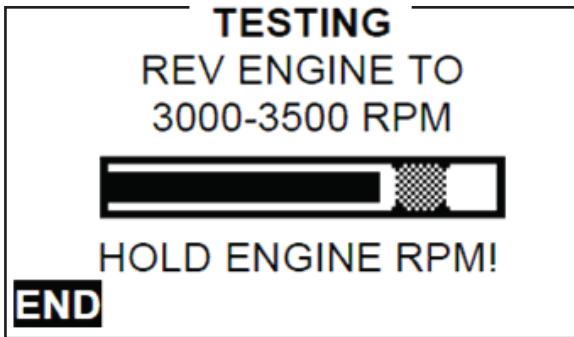


17 When prompted, turn the ignition switch to ON (I). Make sure all electrical loads are off at this time.

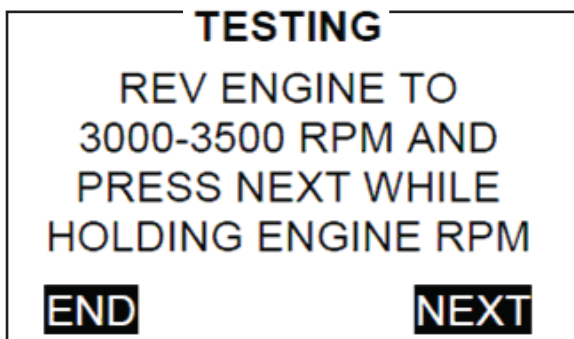


18. Start the engine, and follow the prompts on the next few screens.

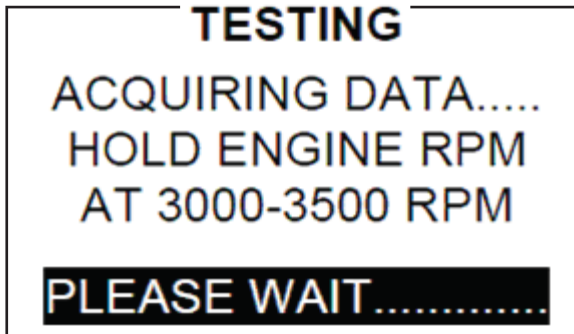
19. When prompted, rev the engine to 3,000–3,500 rpm until the tester tells you to HOLD the rpm level.



NOTE: If you do not rev the vehicle within the first 10 seconds, or the tool cannot detect the engine speed, you will have to rev the engine to 3,000–3,500 rpm, hold at that rpm level, and hit NEXT to continue.



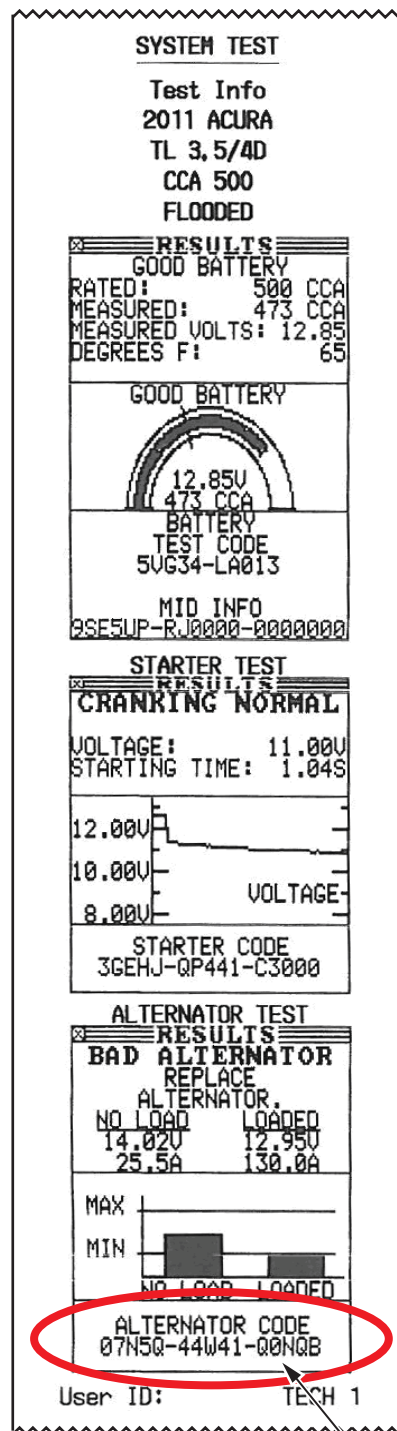
20. While holding the rpm level, the tester will acquire data. Continue to closely follow the prompts until the test is complete.



21. Turn the ignition switch to LOCK (0), and press NEXT to continue.

22. Place the GR8 control module back on the GR8, and press NEXT to display the results.

23. Press PRINT to print the results.



15-DIGIT TEST CODE