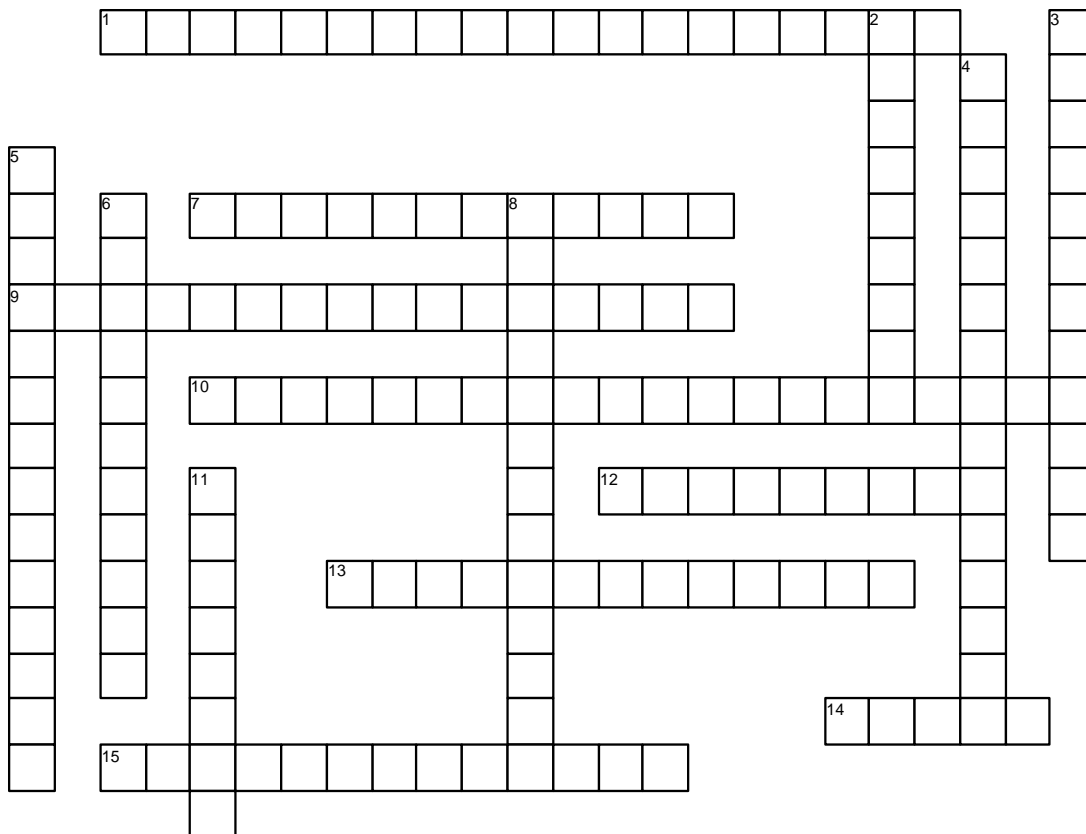


Charging System Diagnosis And Service

Chapter 55



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ACROSS

- 1 The _____ is the easiest way to check the charging system voltage at the battery.
- 7 _____ is a procedure used on older noncomputerized vehicles for bypassing the voltage regulator that could be used to determine if the alternator is capable of producing its designed output.
- 9 _____ is needed to determine if the belt is at the specified tension.
- 10 An _____ measures the current of the alternator.
- 12 A _____ is three diodes connected together.
- 13 Before _____ can begin, the stator must be disconnected from the diodes.
- 14 During the remanufacturing process, old alternators called _____ are totally disassembled and cleaned.
- 15 When disassembling an alternator, be sure to check the _____ because the rear housing can be installed in any one of four positions.

DOWN

- 2 During the _____, if the alternator smells like a dead rat, the stator windings have been overheated by trying to charge a discharged or defective battery.
- 3 When _____, the slip rings on the rotor should be smooth and round, within 0.002 in. of being perfectly round.
- 4 Start the engine and operate it at 2000 RPM is Step 2 when testing for _____.
- 5 A _____ uses plates of carbon to create an electrical load.
- 6 If the voltmeter reads higher than 0.4 volt, there is excessive resistance (_____) between the alternator output terminal and the positive terminal of the battery.
- 8 Battery voltage measurements can be read through the _____.
- 11 Most vehicles that use a computer-controlled charging system can be diagnosed using a _____.