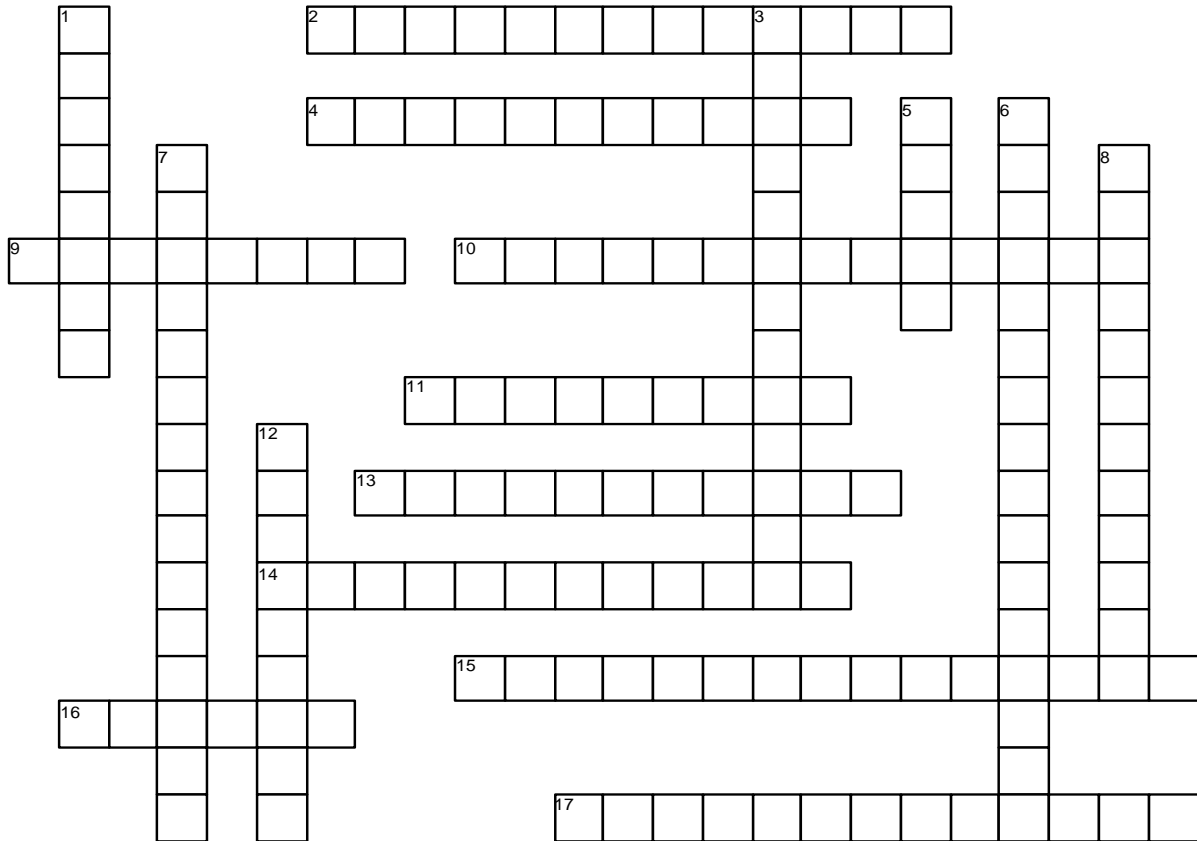


Charging System Diagnosis And Service

Chapter 23



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ACROSS

- 2 Battery voltage measurements can be read through the _____.
- 4 If there is a high _____ in the alternator connections or in the wiring itself, the battery will not be properly charged.
- 9 When using a DMM to perform a charging voltage test, the _____ of the meter leads is not too important. If the leads are backwards, the resulting readout simply has a negative (-) sign in front of the voltage reading.
- 10 A _____ test uses plates of carbon to create an electrical load.
- 11 A _____ is three diodes connected together.
- 13 _____ gauge is needed to determine if the belt is at the specified tension.
- 14 _____ 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.
- 15 Start the engine and operate it at 2000 RPM is Step 2 when testing for _____.
- 16 To test for maximum alternator output, the battery

must be _____ to force the alternator to produce its maximum output.

- 17 Before _____ can begin, the stator must be disconnected from the diodes.

DOWN

- 1 Most vehicles that use a computer-controlled charging system can be diagnosed using a _____.
- 3 When disassembling an alternator, be sure to check the _____ because the rear housing can be installed in any one of four positions.
- 5 During the remanufacturing process, old alternators called _____ are totally disassembled and cleaned.
- 6 An _____ test measures the current of the alternator.
- 7 The _____ is the easiest way to check the charging system voltage at the battery.
- 8 When _____, the slip rings on the rotor should be smooth and round, within 0.002 in. of being perfectly round.
- 12 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.