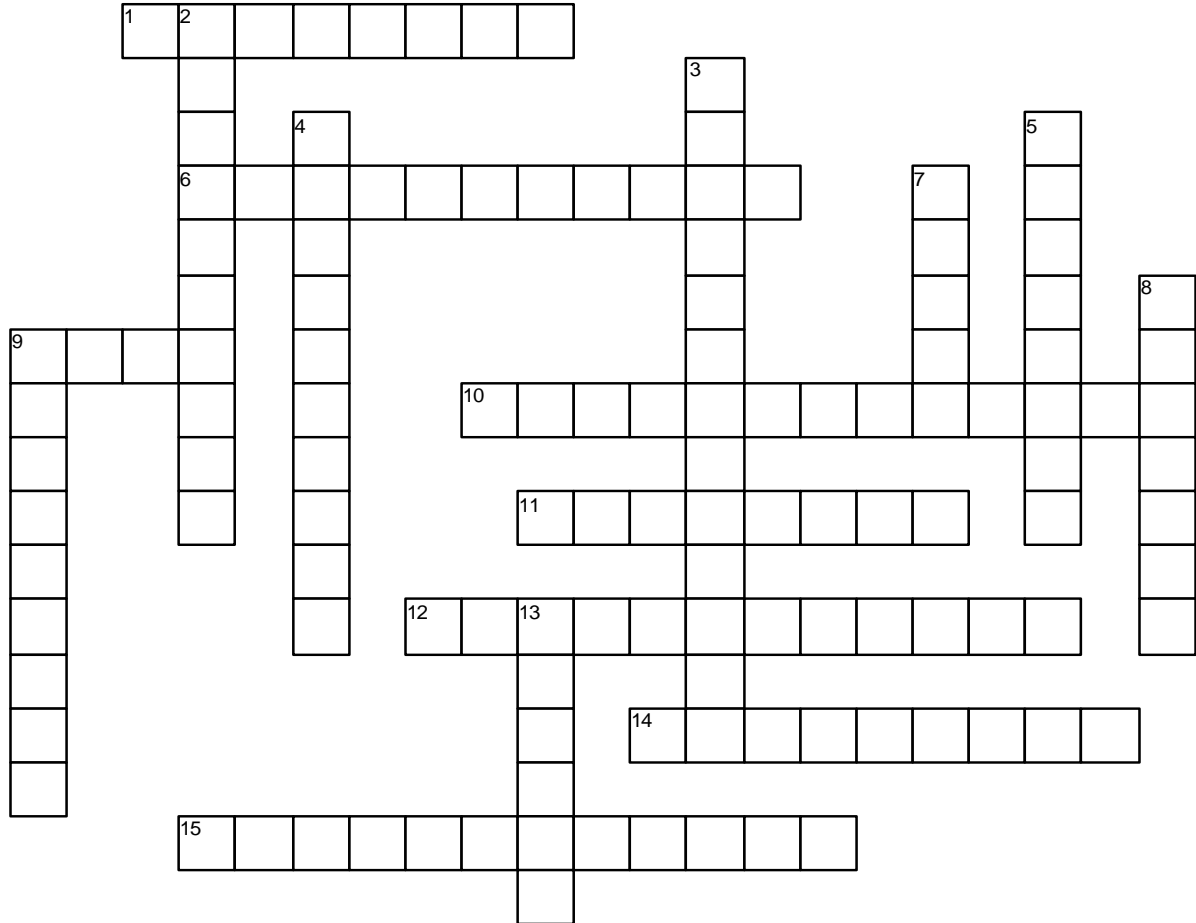


# Charging System Diagnosis And Service

## Chapter 52



<http://jameshalderman.com>

### ACROSS

- 1 Most vehicles that use a computer-controlled charging system can be diagnosed using a \_\_\_\_ \_\_\_\_.
- 6 \_\_\_\_ gauge is needed to determine if the belt is at the specified tension.
- 9 If there is a high voltage \_\_\_\_ in the alternator connections or in the wiring itself, the battery will not be properly charged.
- 10 Before \_\_\_\_ can begin, the stator must be disconnected from the diodes.
- 11 Start the engine and operate it at 2000 RPM is Step 2 when testing for \_\_\_\_ voltage.
- 12 \_\_\_\_ 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.
- 14 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.
- 15 When \_\_\_\_, the slip rings on the rotor should be smooth and round, within 0.002 in. of being perfectly round.

### DOWN

- 2 A \_\_\_\_ test uses plates of carbon to create an electrical load.
- 3 When disassembling an alternator, be sure to check the \_\_\_\_ because the rear housing can be installed in any one of four positions.
- 4 An \_\_\_\_ output test measures the current of the alternator.
- 5 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.
- 7 During the remanufacturing process, old alternators called \_\_\_\_ are totally disassembled and cleaned.
- 8 Battery voltage measurements can be read through the \_\_\_\_ socket.
- 9 A \_\_\_\_ is three diodes connected together.
- 13 To test for maximum alternator output, the battery must be \_\_\_\_ to force the alternator to produce its maximum output.