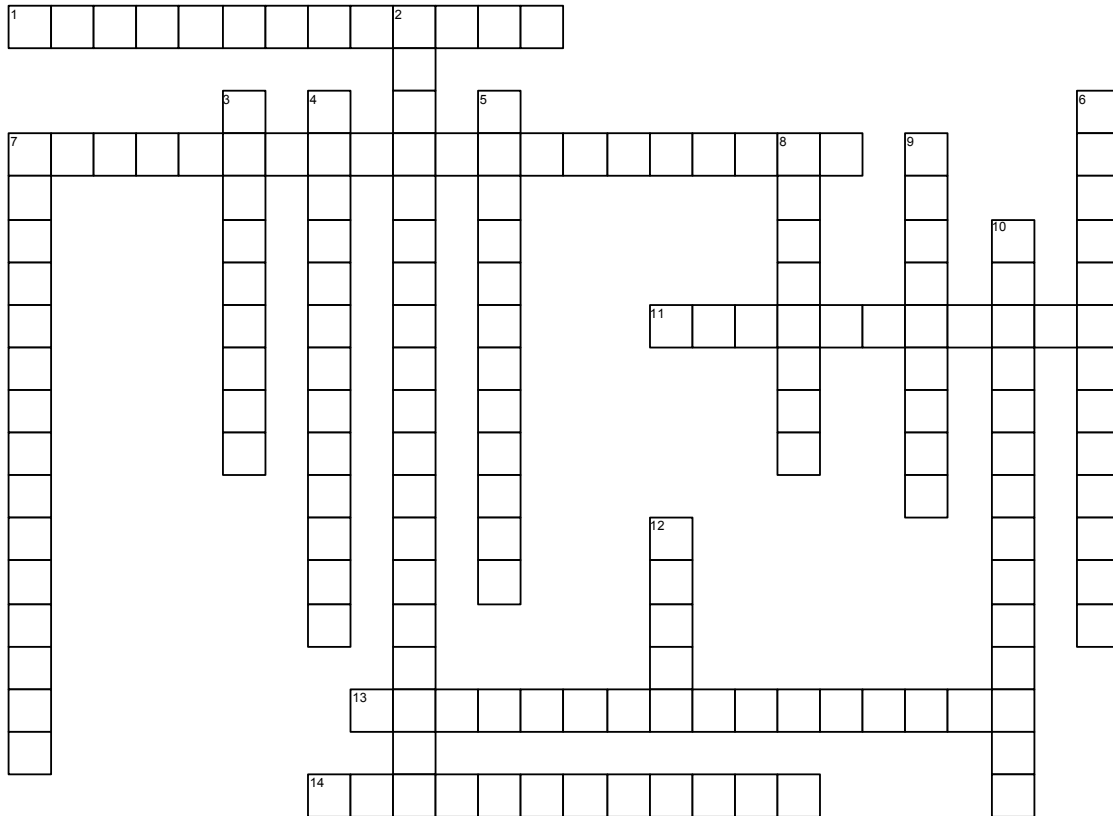


# Charging System Diagnosis And Service

## Chapter 20



<http://jameshaldeman.com>

### ACROSS

- 1 Battery voltage measurements can be read through the \_\_\_\_\_.
- 7 An \_\_\_\_\_ measures the current of the alternator.
- 11 If there is a high \_\_\_\_\_ in the alternator connections or in the wiring itself, the battery will not be properly charged.
- 13 \_\_\_\_\_ is needed to determine if the belt is at the specified tension.
- 14 When \_\_\_\_\_, the slip rings on the rotor should be smooth and round, within 0.002 in. of being perfectly round.

### DOWN

- 2 The \_\_\_\_\_ is the easiest way to check the charging system voltage at the battery.
- 3 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.
- 4 Before \_\_\_\_\_ can begin, the stator must be disconnected from the diodes.
- 5 \_\_\_\_\_ 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.
- 6 When disassembling an alternator, be sure to check the \_\_\_\_\_ because the rear housing can be installed in any one of four positions.
- 7 Start the engine and operate it at 2000 RPM is Step 2 when testing for \_\_\_\_\_.
- 8 Most vehicles that use a computer-controlled charging system can be diagnosed using a \_\_\_\_\_.
- 9 A \_\_\_\_\_ is three diodes connected together.
- 10 A \_\_\_\_\_ uses plates of carbon to create an electrical load.
- 12 During the remanufacturing process, old alternators called \_\_\_\_\_ are totally disassembled and cleaned.