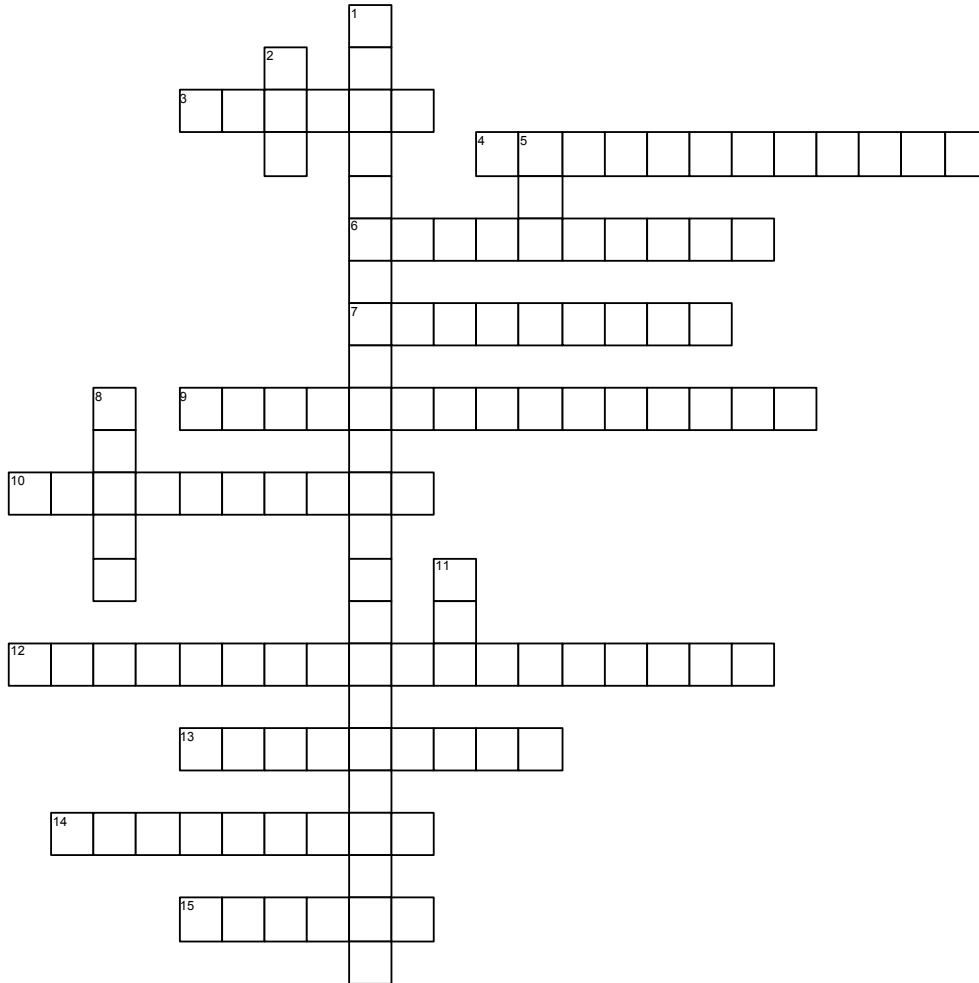


# Charging System

## Chapter 54



<http://jameshaldeman.com>

### ACROSS

- 3 The \_\_\_\_\_ consists of the stationary coil windings inside the alternator.
- 4 The \_\_\_\_\_ is connected in a triangular shape.
- 6 A \_\_\_\_\_ provides lower resistance as the temperature increases. □
- 7 Diodes used in alternators are included in a single part called a \_\_\_\_\_.
- 9 A front ball bearing is pressed into the front housing, called the \_\_\_\_\_, to provide the support and friction reduction necessary for the belt-driven rotor assembly.
- 10 The term \_\_\_\_\_ is most commonly used in the trade for the generator.
- 12 The rear housing, or the \_\_\_\_\_, usually contains either a roller bearing or ball bearing support for the rotor and mounting for the brushes, diodes, and internal voltage regulator.
- 13 At both ends of the rotor windings are heavy-gauge metal

plates bent over the windings with triangular fingers called \_\_\_\_\_.

- 14 The on-time, called \_\_\_\_\_, varies from 5% to 95%.
- 15 \_\_\_\_\_ are constructed of a semiconductor material and operate as a one-way electrical check valve that permits the current to flow in only one direction.

### DOWN

- 1 Another type of alternator pulley uses a dampener spring inside, plus a one-way clutch, sometimes called an \_\_\_\_\_.
- 2 Many alternators are equipped with an \_\_\_\_\_, also called an overrunning clutch pulley.
- 5 A typical system used on some GM vehicles is called \_\_\_\_\_.
- 8 The \_\_\_\_\_ is the rotating part of the alternator and is driven by the accessory drive belt.
- 11 The most common term for a type of alternator pulley using a dampener spring inside plus a one-way clutch is the \_\_\_\_\_.