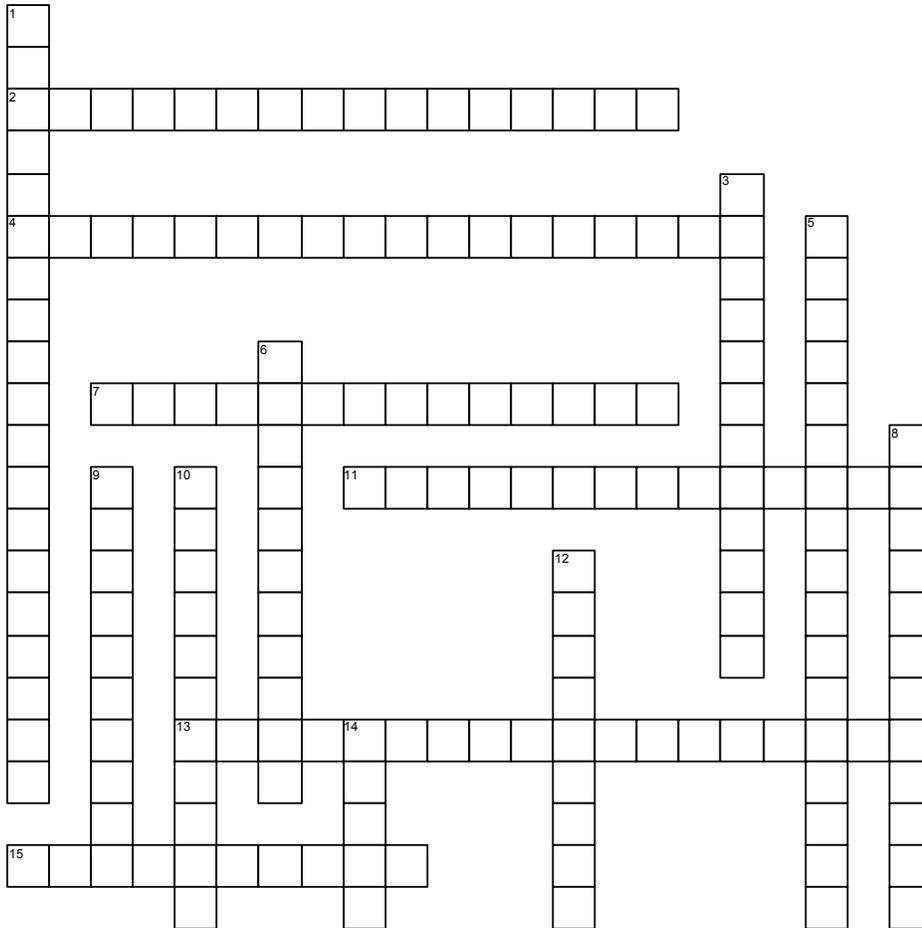


# Ignition System Operation and Diagnosis

## Chapter 33



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### ACROSS

- 2 Surrounding the laminated core are approximately 20,000 turns of fine wire called the \_\_\_\_\_.
- 4 In an \_\_\_\_\_ system, the spark plug itself becomes a sensor.
- 7 An analog signal is sent to a \_\_\_\_\_ inside the sensor itself, which converts the analog signal into a digital signal.
- 11 Surrounding the secondary windings are approximately 150 turns of heavy wire called the \_\_\_\_\_.
- 13 \_\_\_\_\_ is the term specified by the SAE for an ignition system that does not use a distributor.
- 15 \_\_\_\_\_ has the ability to generate a voltage signal in semiconductor material by passing current through it in one direction and applying a magnetic field to it at a right angle to its surface.

### DOWN

- 1 \_\_\_\_\_ is the term specified by the

- SAE for an ignition system that uses a distributor.
- 3 \_\_\_\_\_ are used to detect abnormal combustion.
- 5 Each end of the secondary winding is connected to a cylinder exactly opposite the other in the firing order, which is called a \_\_\_\_\_.
- 6 \_\_\_\_\_ means the order that the spark is distributed to the correct spark plug at the right time.
- 8 The heart of any ignition system is the \_\_\_\_\_.
- 9 The pulse alternator consists of a trigger wheel and a \_\_\_\_\_.
- 10 If the engine is equipped with a separate ignition coil, remove the coil wire from the center of the distributor cap, install a \_\_\_\_\_, and crank the engine.
- 12 The turning on and off of the primary circuit is called \_\_\_\_\_.
- 14 A low-resistance path is called a \_\_\_\_\_, and could cause an engine miss under load even though all of the remaining component parts of the ignition system are functioning correctly.