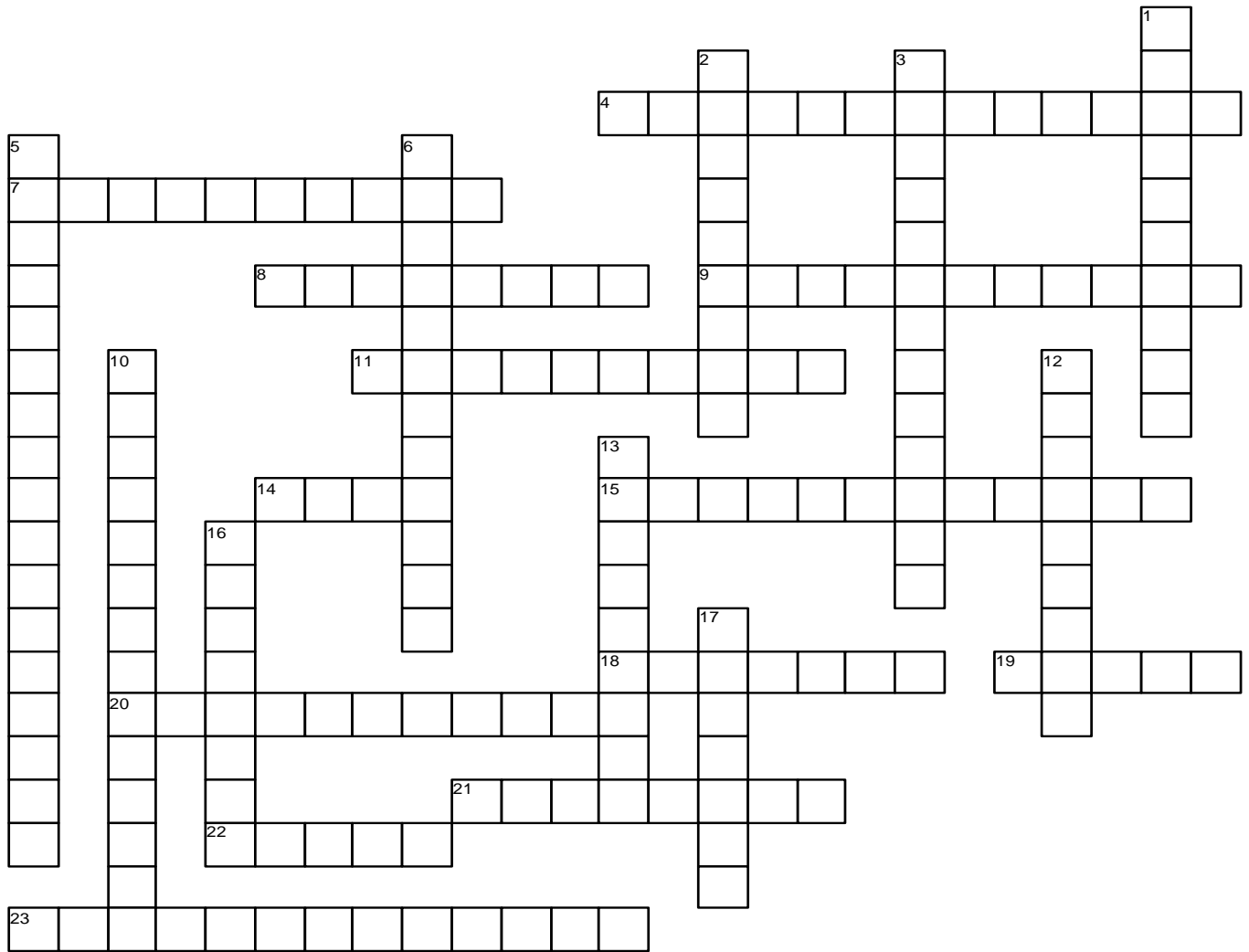


Diesel Engine Electronics

Chapter 17



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ACROSS

- 4 A short circuit in which the current bypasses some or all the resistance of the circuit and flows to ground. Because ground is usually steel in automotive electricity, a _____ is a "copper-to-steel" connection.
- 7 _____ are materials with more than four electrons in their atom's outer orbit. Because they have more than four electrons in their outer orbit, it becomes easier for these materials to acquire (gain) electrons than to release electrons.
- 8 The metal end of a wire that fits into a plastic connector and is the electrical connection part of a junction is called a _____.
- 9 The movement of free electrons from one atom to another is called _____.
- 11 _____ has the ability to generate a voltage signal in semiconductor material (gallium arsenate crystal) by passing current through it in one direction and applying a magnetic field to it at a right angle to its surface.
- 14 _____ is a unit of measurement for resistance.
- 15 It was once thought that electricity had only one charge and moved from positive to negative. this theory of the flow of electricity through a conductor is called the _____ theory of current flow.
- 18 An _____ is used to measure electrical current.
- 19 _____ are a unit of measurement for electrical pressure.
- 20 An _____ is a break or interruption in a circuit that will not allow current to flow.
- 21 The discovery of the electron and its negative charge led to the _____ theory, which states that there is electron flow from negative to positive.

- 22 A device that uses a small current to control a large current is called a _____.
- 23 An element with exactly four electrons in its outer orbit is called a _____.

DOWN

- 1 _____ are material that conducts electricity and heat. A metal that contains fewer than four electrons in its atom's outer shell.
- 2 A _____ can measure voltage.
- 3 A 3-terminal variable resistor that varies the voltage drop in a circuit is called a _____.
- 5 A _____ has multiple functions for measuring electrical activity and uses a digital read out.
- 6 A type of electrical connector that has glue inside which provides a weather-proof seal after it is heated _____ connectors.
- 10 A _____-meter that has multiple functions for measuring electrical activity and uses a digital read out. Also called a DMM.
- 12 The term _____ usually refers to the plastic portion that snaps or connects together, thereby making the mechanical connection.
- 13 a wiring diagram showing components and connecting wires is called a _____.
- 16 An _____ measures the resistance in ohms of a component or circuit section when no current is flowing through the circuit.
- 17 The unit of measurement for electric flow.