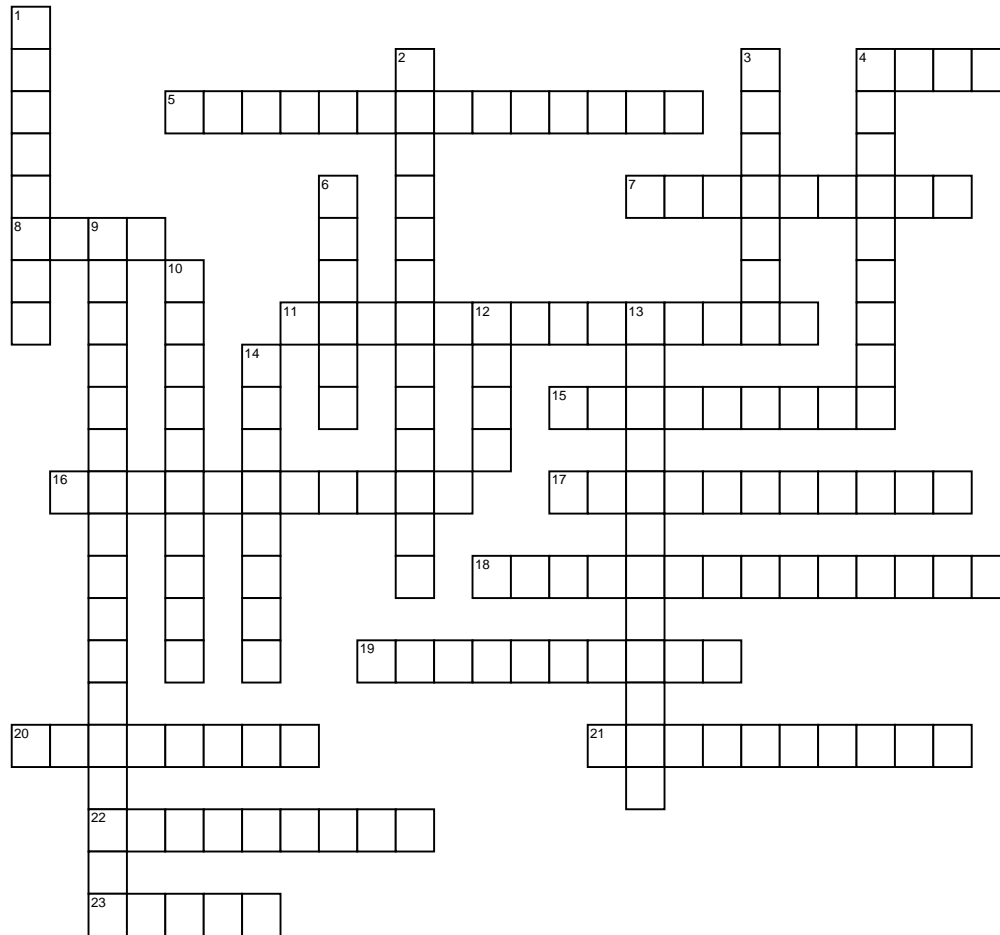


Drivetrain Electricity and Electronics

Chapter 14



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ACROSS

- 4 The _____ is the unit of measurement for electrical pressure.
- 5 The discovery of the electron and its negative charge led to the _____, which states that there is electron flow from negative to positive.
- 7 A wiring _____, sometimes called a diagram, shows electrical components and wiring using symbols and lines to represent components and wires.
- 8 Each module, also called a _____, must communicate to other modules.
- 11 Materials with exactly four electrons in their outer orbit are neither conductors nor insulators, but are called _____.
- 15 The term _____ usually refers to the plastic portion that snaps or connects together, thereby making the

mechanical connection.

- 16 _____ is the movement of electrons from one atom to another.
- 17 An _____ is any circuit that is not complete, or that lacks continuity, such as a broken wire.
- 18 Digital multimeter (DMM) and _____-_____meter (DVOM) are terms commonly used to describe digital meters.
- 19 _____ are materials with more than four electrons in their atom's outer orbit.
- 20 An _____ measures the resistance in ohms of a component or circuit section when no current is flowing through the circuit.
- 21 _____ 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.

- 22 A short-____-_____ occurs when the power side of one circuit is electrically connected to the power side of another circuit.
- 23 A _____ is a magnetic switch that uses a movable armature to control a high-amperage circuit by using a low-amperage electrical switch.

DOWN

- 1 A _____ is a metal fastener attached to the end of a wire, which makes the electrical connection.
- 2 The TP sensor consists of a _____, a type of variable resistor.
- 3 An _____ measures the flow of current through a complete circuit in units of amperes or milliamperes (1/1,000 of an ampere).
- 4 A _____ measures the pressure or potential of

electricity in units of volts.

- 6 The _____ is the unit used throughout the world to measure current flow.
- 9 _____ and digital volt-ohm-meter (DVOM) are terms commonly used to describe digital meters.
- 10 _____ are materials with fewer than four electrons in their atom's outer orbit.
- 12 Resistance to the flow of current through a conductor is measured in units called _____.
- 13 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 _____ theory.
- 14 A short-____-_____ is a type of short circuit that occurs when the current bypasses part of the normal circuit and flows directly to ground.