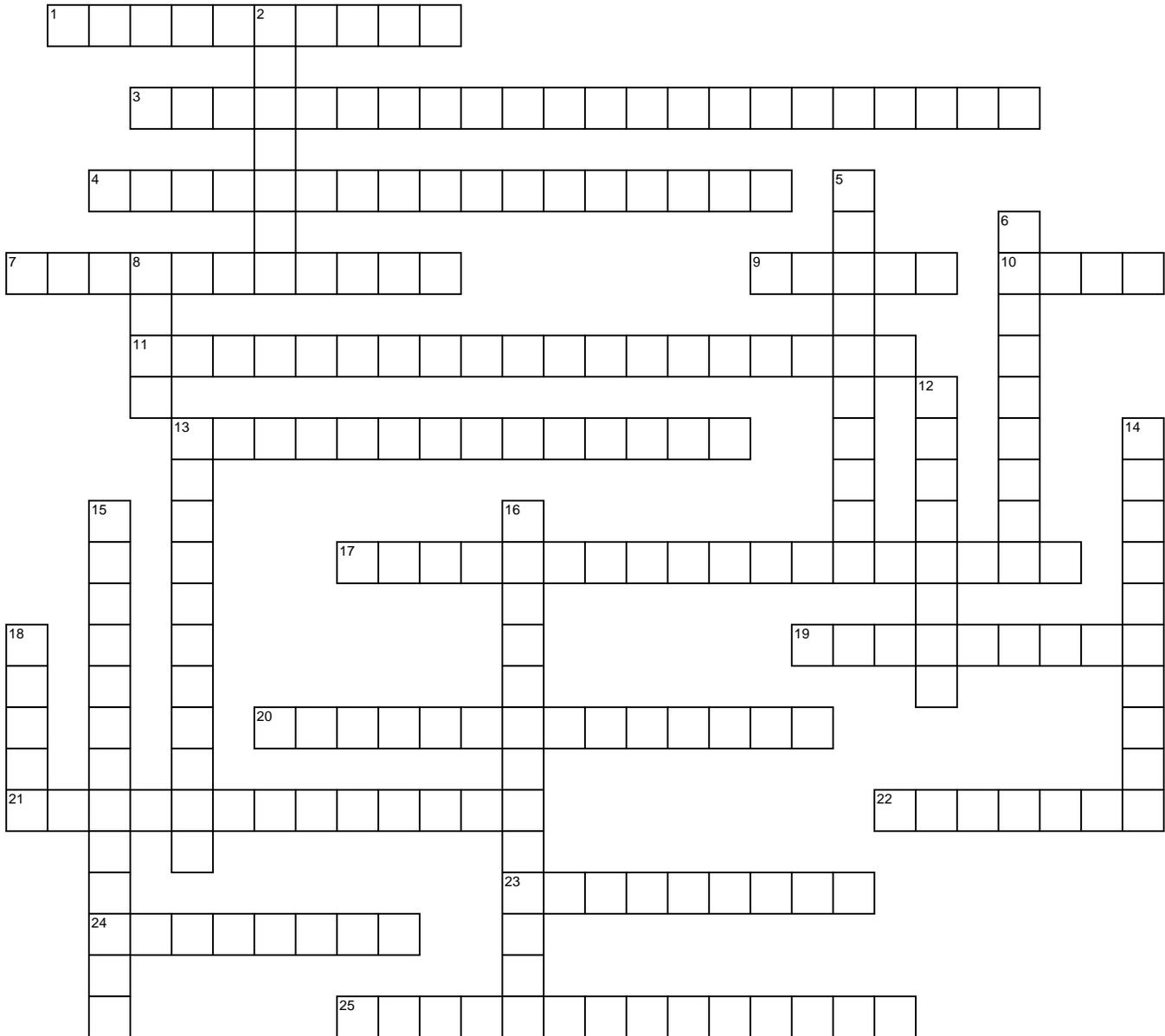


Chapter 17

Drivetrain Electricity and Electronics



ACROSS

- 1 A material that does not readily conduct electricity and heat. A nonmetal material that contains more than four electrons in its atom's outer shell.
- 3 A type of electrical connector that has glue inside which provides a weather-proof seal after it is heated.
- 4 A meter that has multiple functions for measuring electrical activity and uses a digital read out.
- 7 A break or interruption in a circuit that will not allow current to flow.
- 9 A device that uses a small current to control a large current.
- 10 Unit of measurement for resistance.
- 11 A meter that has multiple functions for measuring electrical activity and uses a digital read out. Also called a DMM.
- 13 The theory that electricity flows from negative (-) to positive (+).
- 17 The theory that electricity flows from positive
- 19 a wiring diagram showing components and connecting wires.
- 20 A circuit in which current flows, but bypasses some or all the resistance in the circuit. A connection that results in a "copper-to-copper" connection.
- 21 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 short-to-ground (grounded) is a "copper-to-steel"

- connection.
- 22 The unit of measurement for electric flow.
- 23 The plastic part of an electrical connection.
- 24 The metal end of a wire that fits into a plastic connector and is the electrical connection part of a junction.
- 25 A type of electrical circuit fault where excessive resistance reduces proper current flow.

DOWN

- 2 A meter used to measure electrical current.
- 5 A type of sensor that creates a square wave output signal.
- 6 A meter that can measure voltage.
- 8 Another name for an electronic module.
- 12 A meter used to measure the resistance of a circuit or component.
- 13 The movement of free electrons from one atom to another.
- 14 A material that conducts electricity and heat. A metal that contains fewer than four electrons in its atom's outer shell.
- 15 A 3-terminal variable resistor that varies the voltage drop in a circuit.
- 16 An element with exactly four electrons in its outer orbit.
- 18 Unit of measurement for electrical pressure.