HVAV Electricity And Electronics

Chapter 11



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ACROSS

- A wiring _____, sometimes called a diagram, shows electrical components and wiring using symbols and lines to represent components and wires.
- **3** Each module, also called a _____, must communicate with other modules.
- 5 ______ 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
- 7 A _____ is a magnetic switch that uses a movable armature to control a highamperage circuit by using a low-amperage electrical switch.
- 8 The ____ is the unit of measurement for electrical pressure.
- 11 An _____ measures the resistance in ohms of a component or circuit section when no current is flowing through the circuit.
- **15** The discovery of the electron and its negative charge led to the ______ theory, which states that there is electron flow from negative to positive.
- 16 _____ is the movement of electrons



from one atom to another.

- 19 An _____ measures the flow of current through a complete circuit in units of amperes or milliamperes (1/1,000 of an ampere).
- 20 A _____ measures the pressure or potential of electricity in units of volts.
- 21 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.
- 22 _____ connectors contain a sealant and shrink tubing in one piece and are not simply butt connectors.
- 23 ______ is resistance higher than normal circuit resistance usually caused by any of the following: Corroded connections or sockets, Loose terminals in a connector, or Loose ground connections.

DOWN

- 2 The term _____usually refers to the plastic portion that snaps or connects together, thereby making the mechanical connection.
- 4 _____ and digital volt-ohm-

meter are terms commonly used to describe digital meters.

- 6 Resistance to the flow of current through a conductor is measured in units called
- 9 An _____ is any circuit that is not complete, or that lacks continuity, such as a broken wire.
- **10** A _______ is a type of short circuit that occurs when the current bypasses part of the normal circuit and flows directly to ground.
- **12** _____ are materials with fewer than four electrons in their atom's outer orbit.
- 13 Materials with exactly four electrons in their outer orbit are neither conductors nor insulators, but are called _____.
- 14 A ______ occurs when the power side of one circuit is electrically connected to the power side of another circuit.
- 17 A _____ is a metal fastener attached to the end of a wire, which makes the electrical connection.
- **18** The _____ is the unit used throughout the world to measure current flow.