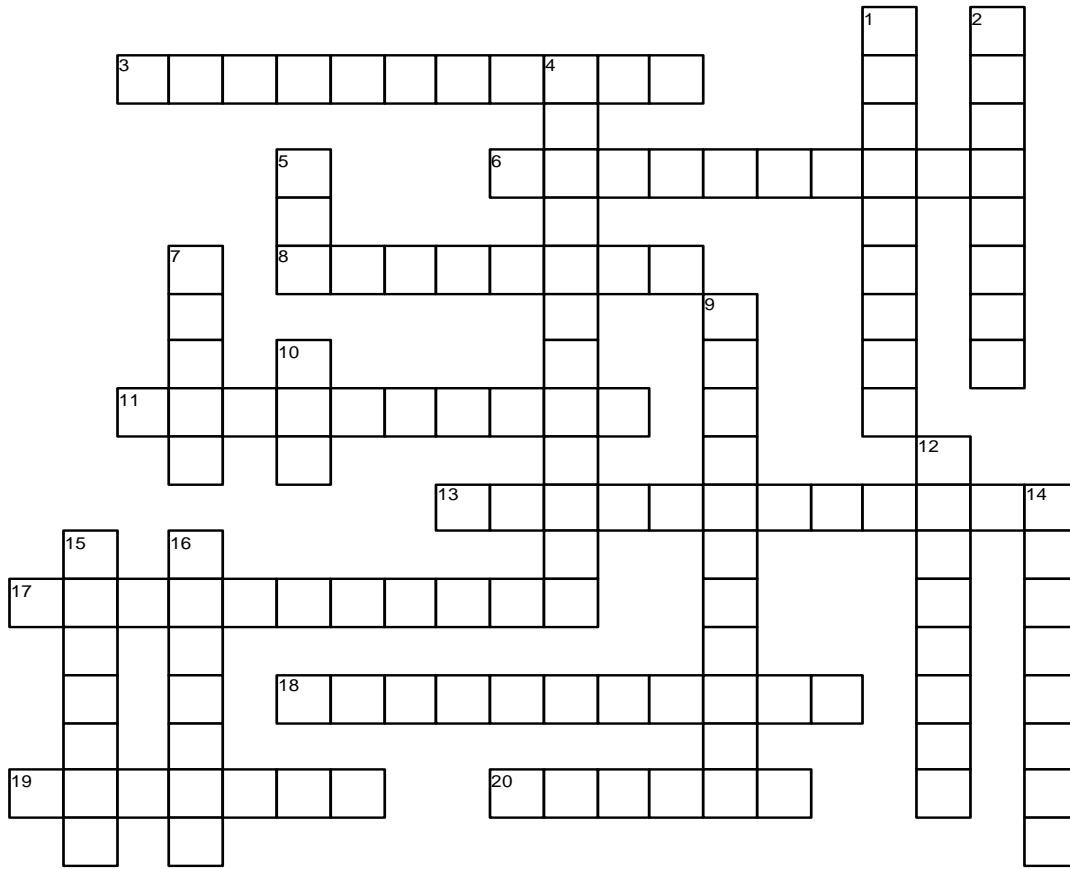


Automotive Wiring And Wire Repair

Chapter 41



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ACROSS

- 3 A _____ is used to transmit low-voltage signals using two wires that are twisted together.
- 6 Most manufacturers indicate on the wiring diagrams the _____ guage sizes measured in square millimeters of cross-sectional area.
- 8 Another name for a Pacific fuse elements is _____.
- 11 _____ tubing is usually made from PVC or polyolefin and shrinks to about half its original diameter when heated.
- 13 _____-____-_____ connectors contain a sealant and shrink tubing in one piece and are not simply butt connectors.
- 17 _____ elements are used to protect wiring from a direct short-to-ground.
- 18 A _____ is a type of fuse that consists of a short length of standard copper-strand wire covered with a special nonflammable insulation.
- 19 _____ ground straps are uninsulated.
- 20 _____ cables are 4 to 2/0 gauge electrical cables with large clamps attached and are used to connect a vehicle that has a discharged battery to a vehicle that has a good battery.

DOWN

- 1 Solder is made with a resin (rosin) contained in the center, called _____-_____ solder.
- 2 Another name for a Pacific fuse link or auto link is _____.
- 4 Wiring is sized and purchased according to gauge size as assigned by the _____ gauge system.
- 5 The abbreviation for a connector position assurance is _____.
- 7 _____ should be used in every circuit to protect the wiring from overheating and damage caused by excessive current flow as a result of a short circuit or other malfunction.
- 9 Most automotive wire, except for spark plug wire, is often called _____ because it is designed to operate at or near battery voltage.
- 10 _____ circuit protectors are solid state.
- 12 A _____ is a metal fastener attached to the end of a wire, which makes the electrical connection.
- 14 Terminals are retained in connectors by the use of a _____.
- 15 _____ cables are the largest wires used in the automotive electrical system.
- 16 _____ breakers are mechanical units made of two different metals that deform when heated and open a set of contact points that work in the same manner as an "off" switch.