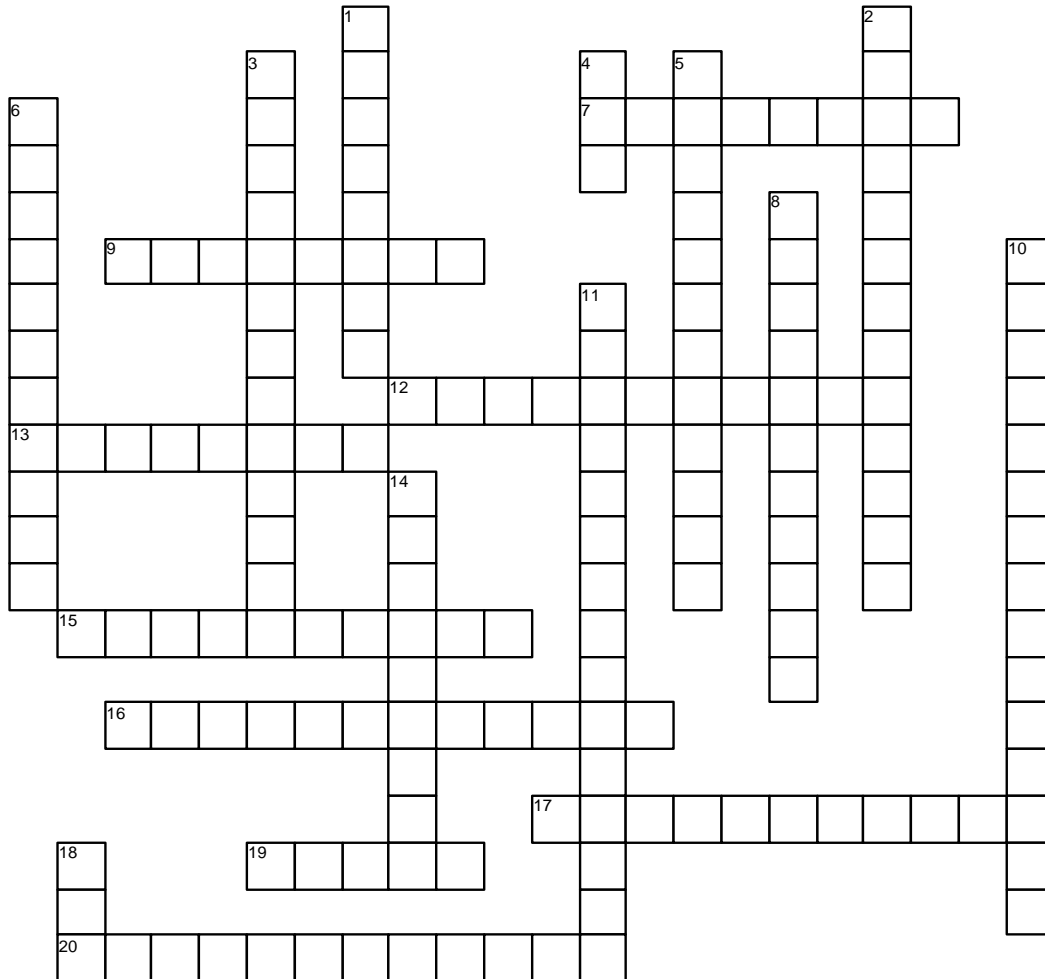


# Automotive Wiring And Wire Repair

## Chapter 11



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### ACROSS

- 7 A \_\_\_\_\_ is a metal fastener attached to the end of a wire, which makes the electrical connection.
- 9 Another name for a Pacific fuse link or auto link is \_\_\_\_\_.
- 12 A \_\_\_\_\_ is used to transmit low-voltage signals using two wires that are twisted together.
- 13 Terminals are retained in connectors by the use of a \_\_\_\_\_.
- 15 \_\_\_\_\_ tubing is usually made from PVC or polyolefin and shrinks to about half its original diameter when heated.
- 16 \_\_\_\_\_ 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.
- 17 \_\_\_\_\_ elements are used to protect wiring from a direct short-to-

ground.

- 19 \_\_\_\_\_ 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.
- 20 Wiring is sized and purchased according to gauge size as assigned by the \_\_\_\_\_ gauge system.

### DOWN

- 1 Another name for a Pacific fuse elements is \_\_\_\_\_.
- 2 \_\_\_\_\_ straps are uninsulated.
- 3 \_\_\_\_\_ are the largest wires used in the automotive electrical system.
- 4 \_\_\_\_\_ circuit protectors are solid state.
- 5 \_\_\_\_\_ connectors contain a sealant and shrink tubing in one piece and are not simply butt connectors.

- 6 A \_\_\_\_\_ is a type of fuse that consists of a short length of standard copper-strand wire covered with a special nonflammable insulation.
- 8 Most automotive wire, except for spark plug wire, is often called \_\_\_\_\_ because it is designated to operate at or near battery voltage.
- 10 \_\_\_\_\_ 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.
- 11 Most manufacturers indicate on the wiring diagrams the \_\_\_\_\_ sizes measured in square millimeters of cross-sectional area.
- 14 Solder is made with a resin (rosin) contained in the center, called \_\_\_\_\_ solder.
- 18 The abbreviation for a connector position assurance is \_\_\_\_\_.