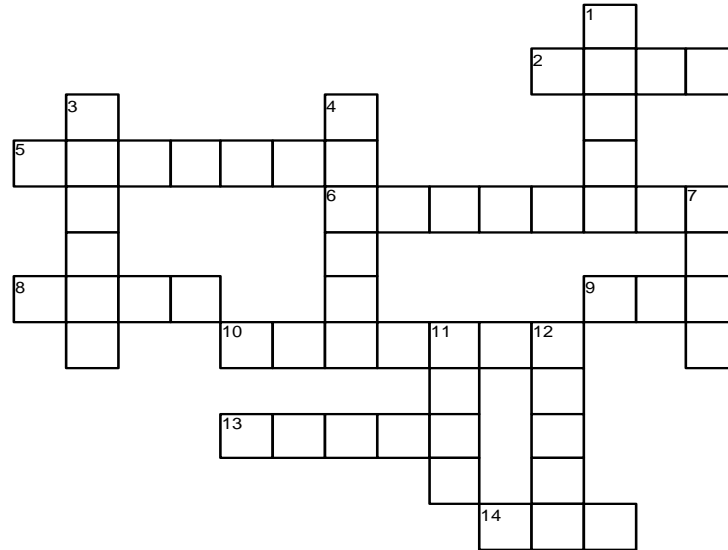


Automotive Electrical and Engine Performance 9th Edition Chapter 7 - Automotive Wiring and Wire Repair



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ACROSS

- 2 _____ solder joint: A weak or improper solder joint caused by insufficient heat during the soldering process, leading to poor electrical conductivity.
- 5 _____ link: A short section of wire designed to melt under excessive current, protecting the circuit from damage.
- 6 A metal fastener attached to the end of a wire to create an electrical connection, often housed in a connector.
- 8 _____ shrink tubing: Tubing that shrinks when heated to provide insulation and mechanical protection for wire splices and connections.
- 9 _____ circuit protectors: Positive Temperature Coefficient devices that increase resistance with temperature, providing resettable overcurrent protection.
- 10 _____ fuse element: A specific type of fuse element designed for automotive applications.
- 13 Devices that protect electrical circuits by breaking the connection when current exceeds a specific limit.
- 14 A locking mechanism on connectors to ensure that terminals are fully seated and prevent accidental disconnection.

DOWN

- 1 _____-core solder: A type of solder containing rosin flux, commonly used for electrical soldering to ensure a good connection without corrosion.
- 3 _____ cables: Heavy-duty cables used to connect the battery of one vehicle to another for jump-starting.
- 4 _____ wire gauge: A wire measurement system based on the metric system to specify wire diameter.
- 7 _____ tang: A metal clip that locks terminals in place within a connector to prevent them from coming loose.
- 11 _____ link: A section of wire with a lower melting point used to protect circuits from excessive current by burning out during a fault.
- 12 _____-and-seal connectors: Connectors designed to crimp wires securely while providing a seal to prevent moisture ingress.