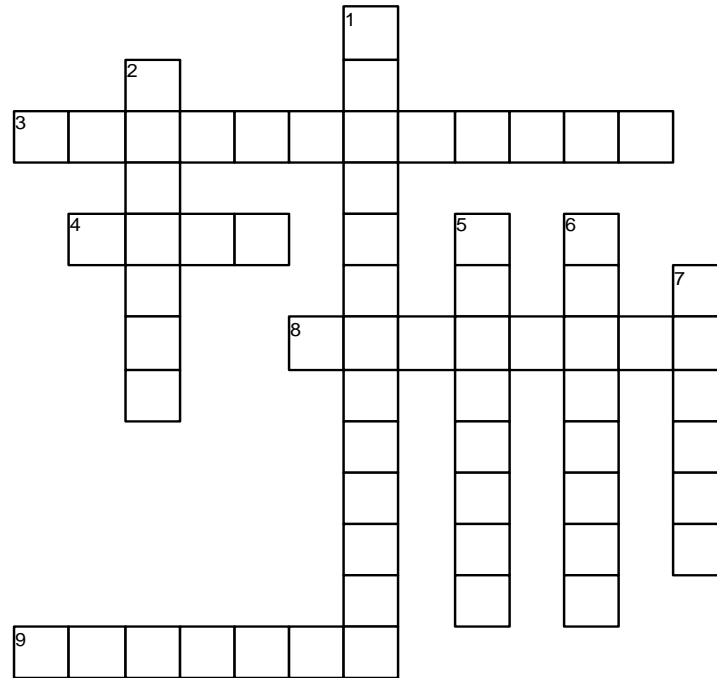


## Automotive Electrical and Engine Performance 9th Edition Chapter 25 - Hybrid and Electric Vehicle Safety



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### ACROSS

- 3 \_\_\_\_\_ Safety and Health Administration (OSHA): A U.S. government agency that establishes and enforces workplace safety standards, including those for high-voltage environments.
- 4 \_\_\_\_\_ Voltage (HV): Electrical systems in hybrid and electric vehicles operating at voltages exceeding 60 volts, requiring special safety protocols and equipment.
- 8 \_\_\_\_\_ three (CAT III): A certification rating for digital multimeters, indicating they are suitable for measuring high-energy circuits in industrial and automotive applications, including hybrid and electric vehicles.
- 9 \_\_\_\_\_ Multimeter (DMM): A versatile tool used to measure electrical properties such as voltage, current, and resistance in both low-voltage and high-voltage circuits.

### DOWN

- 1 \_\_\_\_\_ Electrotechnical Commission (IEC): A global organization responsible for setting safety and performance standards for electrical and electronic technologies, including high-voltage measurement tools.
- 2 American \_\_\_\_\_ for Testing and Materials (ASTM): An international standards organization that develops and publishes technical standards for materials, products, and systems, including those used in high-voltage environments.
- 5 \_\_\_\_\_ National Standards Institute (ANSI): An organization that oversees the development of voluntary safety and quality standards for products, including personal protective equipment.
- 6 \_\_\_\_\_ Vehicle Alerting System (AVAS): A system installed in electric and hybrid vehicles to emit sound, ensuring that pedestrians are aware of the vehicle's presence at low speeds.
- 7 \_\_\_\_\_ Main Relays (SMRs): Relays used to control the main high-voltage circuits in hybrid and electric vehicles, disconnecting the power when not in use or during maintenance.