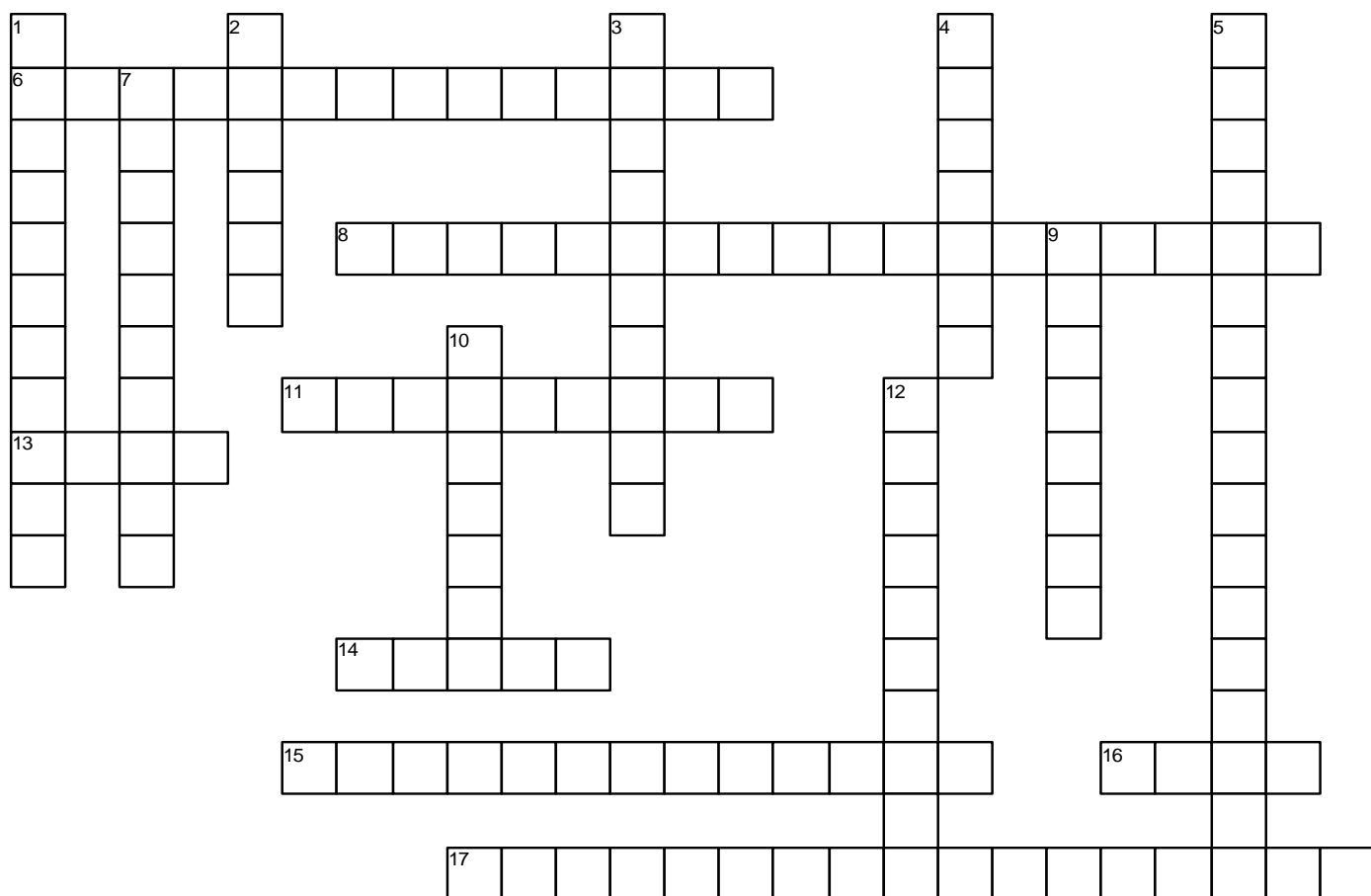


Hybrid and Electric Vehicle Safety

Chapter 1



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ACROSS

- 6 Some manufactures recommend the use of _____ or shoes to protect against exposure to high voltage.
- 8 The _____ and Health Administration (OSHA) requirements specify that the HV gloves get inspected every six months by a qualified glove inspection laboratory.
- 11 A local _____ is a LV circuit that uses separate switches and contacts to detect when there has been an open in LV circuits or components that are associated with the HV system.
- 13 Abbreviation for acoustic vehicle alerting system.
- 14 Category _____ is the minimum-rated meter that should be used for hybrid and electric vehicles.
- 15 The _____ Electrotechnical Commission has several categories of voltage standards for meter and meter leads. These categories are ratings for over voltage protection and are rated CAT I, CAT II, CAT III, and CAT IV.
- 16 Abbreviation for American Society for Testing and Materials.
- 17 ANSI is the abbreviation for American _____ Institute.

DOWN

- 1 Electric and hybrid electric vehicles use _____-_____ (HV) circuits that if touched with an unprotected hand could cause serious burns or even death.
- 2 Use ONLY a _____ fire extinguisher rated for electrical fires.
- 3 The HV system uses _____ or heavy-duty relays to detect opens in the HV circuits.
- 4 Remove all _____, rings, watches, and bracelets before working on the vehicle.
- 5 A category three (CAT III) certified _____ is required for Hybrid and electric vehicles that are equipped with electrical systems whose voltages can exceed 600 volts DC.
- 7 The _____ relays (SMRs) or contactors disconnect power from the cables the moment the ignition is turned off.
- 9 Some manufacturers recommend _____ clothing or long sleeve, 100% cotton clothing that is tucked into the gloves when working on HV components.
- 10 Use an outer _____ glove to protect the HV rubber gloves.
- 12 Some manufactures recommend that a 10-foot insulated _____ pole be available outside the safety zone to be used to pull a technician away from the vehicle.