Vehicle Electrification System Standards

II. High Voltage Safety and Personal Protective Equipment

II.c High Voltage Components
Labels and Identification

OEM Acronyms:

n/a

Description:

High voltage components shall be identified by a standardized symbol.

Outcome (Goal):

Students shall be able to visually identify high voltage components on a hybrid, plug-in, or electric vehicle by viewing the standardized symbol or the written orange-colored label.

Objective:

When provided with a hybrid, plug-in, or electric vehicle, students shall be able to locate all high voltage components and visually identify the high voltage label.

Task:

Using the classroom vehicle provided, locate all high voltage components and identify them as high voltage by viewing the identification labeling.

Required Special Tools and/or Equipment to Complete Task:

Vehicle lift

Instructor Demonstrations (System Operation, Testing, Servicing, Repair):

Use a spare (de-energized) high voltage components to demonstrate where high voltage labeling is located on high voltage components.

Information Resources to support Tasks, Demonstrations, Repairs, etc.:

OEM Service Information

Suggested Vehicle for Tasks and Demonstrations:

Available vehicles.

Governing Standards (Safety, Testing, Diagnostics or Repair):

J2344 - Guidelines for Electric Vehicle Safety

Industry Resource Organization:

- √ Society of Automotive Engineers (SAE)
- ☐ Institute of Electrical & Electronics Engineers (IEEE)
- ☐ International Electrotechnical Commission (IEC)
- ☐ American Society for Testing and Materials (ASTM)
- ☐ Occupational Safety & Health Administration (OSHA)
- ☐ National Fire Protection Association (NFPA)
- ☐ Underwriters Laboratories (UL)

To comment or offer suggestions on this standard, contact Ken Mays:

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