



WORKSHEET 2-1 Hybrid Safety

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|---------|-----------------|--------|--------------|
| Vehicle | Year/Prod. Date | Engine | Transmission |
|---------|-----------------|--------|--------------|

Technician Objectives

This worksheet will familiarize you with the critical safety procedures involved in working with a high-voltage hybrid system. You will understand all safety procedures and use all safety equipment.

Tools and Equipment

- High-Voltage Gloves
- Protective Eye Wear
- Emergency Response Guide
- Repair Manual
- EWD

Section 1: In Class - Hybrid Safety

- Fill in the blanks in the following statements about hybrid safety.
 - Always follow the directions and warnings in the _____ and _____.
 - Always wear your high-voltage _____ and protective _____.
 - Remove the _____ from the 12V battery.
 - Put the _____ in your pocket and keep it under your control at all times.
 - Wait at least _____ minutes before inspecting any high-voltage system.
 - Always verify the _____ with a _____.
- Using the Emergency Response Guide, explain how you could disable a hybrid vehicle if the ignition key or service plug were inaccessible?

Section 2: In Shop - Hybrid Safety

Note: Bring your safety gloves and ERG to the shop.

1. Remove the key from the vehicle and put it in your pocket. (The '04 and later smart key equipped vehicles will require the smart key system to be turned OFF first.)

2. Access the 12V auxiliary battery and remove the negative terminal. This assures what?

3. Locate the Service Plug. Put on your safety gloves and protective eye wear and remove the plug. What device or devices are integrated into the service plug assembly?

4. Re-install the service plug and allow another student to remove the plug wearing their gloves.

5. When each student has removed and re-installed the plug, use the Repair Manual, EWD, or TIS workstation to locate the IGCT Relay or HEV fuse in the vehicle. Write the location of the relay below.

6. When would you need to remove this relay?

Return vehicle to normal condition.



SELF-ASSESSMENT 2-1

Hybrid Safety

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| Name: | Date: |
|-------|-------|

Self-assessment Objectives

Review this sheet as you are doing the Hybrid Safety worksheet. Check off either category after completing the worksheet and instructor presentation. Ask the instructor if you have questions. The **Comments** section is for you to write notes on where to find the information, questions, etc.

I have questions

I know I can

Topic

Comment

| | | | |
|---|--|--|--|
| Describe all safety procedures when working with the high voltages systems. | | | |
| Locate and list all safety equipment. | | | |
| Access the 12V battery. | | | |
| Access the high-voltage battery. | | | |
| Safely pull the service plug. | | | |
| Describe when the service plug needs to be removed. | | | |
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Notes