

Automotive Technology 6th Edition

Chapter 94 – Hybrid Safety and Service Procedures

Lesson Plan



CHAPTER SUMMARY:

1. High-voltage safety, high-voltage safety equipment, and safety interlock system
 2. Loss of insulation test, electric shock potential, and de-power high-voltage systems
 3. Collision and repair industry issues and moving and towing a hybrid
 4. Removing the high-voltage batteries and routine service procedures
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OBJECTIVES:

1. Correctly use appropriate personal protective equipment (PPE).
 2. Discuss the safety interlock system and loss of insulation in a hybrid electric vehicle.
 3. Safely de-power a hybrid electric vehicle.
 4. Explain hazards while driving, moving, and hoisting a hybrid electric vehicle.
 5. Perform routine vehicle service procedure on a hybrid electric vehicle and understand the HEV's unique service requirements.
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RESOURCES: (All resources may be found at <http://www.jameshalderman.com>)

1. **Task Sheet ASE (A6-B-7) P-2:** Hybrid Vehicle HV Circuit Disconnect
 2. **Task Sheet ASE (A6-B-7) P-2:** Identify HV of Hybrid Electric Vehicles
 3. **Task Sheet:** High-Voltage Battery Chargers
 4. **Task Sheet ASE (A1-A-9) P-2:** Hybrid Engine Service Precautions
 5. **Task Sheet ASE (A7-B-4) P-2:** Hybrid A/C System Circuits
 6. Chapter PowerPoint
 7. Chapter Crossword Puzzle and Word Search
 8. Videos: Hybrid Battery Installation Tech and Safety Tips (time 3:06)
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ACTIVITIES:

1. **Task Sheet ASE (A6-B-7) P-2:** Have students complete Hybrid Vehicle HV Circuit Disconnect Task Sheet.
 2. **Task Sheet ASE (A6-B-7) P-2:** Have students complete Identify HV of Hybrid Electric Vehicles Task Sheet.
 3. **Task Sheet:** Have students complete High-Voltage Battery Chargers Task Sheet.
 4. **Task Sheet ASE (A1-A-9) P-2:** Have students complete Hybrid Engine Service Precautions Task Sheet.
 5. **Task Sheet ASE (A7-B-4) P-2:** Have students complete Hybrid A/C System Circuits Task Sheet.
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ASSIGNMENTS:

1. Chapter crossword and word search puzzles.
 2. Complete end of chapter 10 question quiz.
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CLASS DISCUSSION:

1. Review and group discussion chapter [Frequently Asked Questions](#) and [Tech Tips](#) sections.
 2. Review and group discussion of the five (5) chapter [Review Questions](#).
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NOTES AND EVALUATION:


