

Automotive Technology 6th Edition

Chapter 93 – Electric and Plug-In Hybrid Electric Vehicles

Lesson Plan



CHAPTER SUMMARY:

1. Plug-in hybrid electric vehicles and electric vehicles
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OBJECTIVES:

1. Identify a plug-in hybrid electric vehicle (PHEV) and explain how the high-voltage battery is recharged.
 2. Discuss the battery capacity and range correlation of an EV.
 3. Describe the levels of chargers used to charge a PHEV or an EV.
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RESOURCES: (All resources may be found at <http://www.jameshalderman.com>)

1. Chapter PowerPoint
 2. Chapter Crossword Puzzle and Word Search
 3. Animations: Parallel Hybrid, Regenerative Braking, and Series Hybrid
 4. Videos: Outlander PHEV bigger battery 19.5 kWh (time 2:51)
 5. Videos: Outlander PHEV Battery Disassembly (time 15:35)
 6. Videos: Mitsubishi Outlander PHEV – Technology (time 4:10)
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ACTIVITIES:

1. Have students visit a shop that maintains and repairs electric and plug-in electric vehicles.
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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:
