

Automotive Technology 6th Edition

Chapter 91 – Introduction to Hybrid Vehicles

Lesson Plan

CHAPTER SUMMARY:



1. Hybrid vehicles, electric vehicles, and driving and owning a hybrid electric vehicle
 2. Classifications of hybrid electric vehicles and belt alternator starter systems
 3. Modes of operation and levels of hybrid vehicles
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OBJECTIVES:



1. Discuss the evolution of electric and hybrid vehicles.
 2. Describe how owning a hybrid electric vehicle is different from a conventional vehicle.
 3. Explain the classifications of hybrid electric vehicles.
 4. Explain the operation of belt-alternator-starter (BAS) systems.
 5. Discuss the common features of most hybrids and the levels of hybrid vehicle.
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RESOURCES: (All resources may be found at <http://www.jameshalderman.com>) Internet access required to hyperlink.



1. **Task Sheet:** Hybrid Electric Vehicle Nomenclature
 2. **Task Sheet ASE (A5-G-2) P-3:** Hybrid Regenerative Brake Systems
 3. Chapter PowerPoint
 4. Chapter Crossword Puzzle and Word Search
 5. Videos: [\(A8\) Engine Performance Videos](#)
 6. Animations: [\(A8\) Engine Performance Animations](#)
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ACTIVITIES:



1. **Task Sheet:** Have students complete Hybrid Electric Vehicle Nomenclature Task Sheet.
 2. **Task Sheet ASE (A5-G-2) P-3:** Have students complete Hybrid Regenerative Brake Systems 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:

