

Automotive Technology 7th Edition

Chapter 88 – Hybrid and Electric Vehicle Maintenance

Lesson Plan



CHAPTER SUMMARY:

1. Routine Service Procedures, and Placing the Hybrid Vehicle in Maintenance Mode
2. Oil and Filter Change and Engine Maintenance, and Braking System Service
3. Related Maintenance Items, and Diagnosis Procedures



OBJECTIVES:

1. Describe routine service procedures for both hybrid and electric vehicles.
2. Explain how to place a hybrid vehicle in maintenance mode.
3. Describe an oil and filter change and engine maintenance on a hybrid vehicle.
4. Explain how to service the base brake system on a hybrid or electric vehicle.
5. Discuss related maintenance items including battery air filter, A/C service, tires, auxiliary battery, and steering systems.
6. List diagnostic procedures for hybrid and electric vehicles.



RESOURCES: (All resources may be found at jameshalderman.com)

1. Task Sheet: EV and HEV Preventative Maintenance
2. Task Sheet: HEV Test and Replace Coolant
3. Crossword Puzzle and Word Search
4. Chapter PowerPoint
5. Videos: [\(L3\) Light Duty Hybrid Electric Videos](#)
6. Animations: [\(L3\) Light Duty Hybrid Electric Animations](#)



ACTIVITIES:

1. Task Sheet: EV and HEV Preventative Maintenance
2. Task Sheet: HEV Test and Replace Coolant
3. Crossword Puzzle and Word Search



ASSIGNMENTS:

1. Chapter crossword and word search puzzles from the website.
2. Complete end of chapter quiz from the textbook.
3. Complete multiple choice and short answer quizzes downloaded from the website.



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](#).



NOTES AND EVALUATION: