**Automotive Steering, Suspension & Alignment**

**Chapter 15 – Electric Power Steering Systems**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Electric Power Steering Overview, EPS System Parts and Operation, and Steering Shaft Torque Sensor

2. Steering Wheel Position Sensor, Power Steering Motor, and Power Steering Control Module (PSCM)

3. EPS Diagnosis, Self-Parking System, and Electrohydraulic Power Steering

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**OBJECTIVES:**

1. Describe the purpose, function, and types of electric power steering systems.

2. Explain how electric power steering systems operate.

3. Discuss how to diagnose electric power steering system faults.

4. Describe the self-parking feature and its relationship to power steering.

5. Describe electrohydraulic power steering.

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**RESOURCES:** [(All resources may be found at jameshalderman.com)](https://jameshalderman.com/)

1. Task Sheet: Electronically Controlled Steering Systems

2. Task Sheet: Electric Power Steering

3. Task Sheet: HEV Power Steering Circuits Services

4. Chapter PowerPoint

5. [Crossword and Word Search Puzzles (A4)](https://jameshalderman.com/a4_puzzles_lib_page/)

6. [Videos: (A4) Suspension and Steering](https://jameshalderman.com/a4_vid_lib_page/)

7. [Animations: (A4) Suspension and Steering](https://jameshalderman.com/a4_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: Electronically Controlled Steering Systems

2. Task Sheet: Electric Power Steering

3. Task Sheet: HEV Power Steering Circuits Services

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**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.

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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:**

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