

Automotive Technology 7th Edition

Chapter 117 – Hydraulic Power Steering Systems

Lesson Plan



CHAPTER SUMMARY:

1. Hydraulic Power Steering Systems, Power Steering Pump and Reservoir, and Integral Power Steering
2. Variable-Effort Steering, and Power Steering Diagnosis



OBJECTIVES:

1. Describe the operation of hydraulic power steering systems.
2. Discuss the components and operation of power steering pumps.
3. Explain the purpose and function of integral power steering.
4. Discuss the purpose and function of variable effort steering systems.
5. Discuss power steering diagnosis and troubleshooting.
6. Describe service of power steering components and fluid.



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

1. Task Sheet: Power Steering Fluid
2. Task Sheet: Diagnose Power Steering Fluid Leakage
3. Task Sheet: Power Steering Pump Belt
4. Task Sheet: Service Power Steering Pump
5. Task Sheet: Inspect Power Steering Hoses and Fittings
6. Task Sheet: Power Steering System Pressure Test
7. Crossword Puzzle and Word Search
8. Chapter PowerPoint
9. Videos: [\(A4\) Suspension and Steering Videos](#)
10. Animations: [\(A4\) Suspension and Steering Animations](#)



ACTIVITIES:

1. Task Sheet: Power Steering Fluid
2. Task Sheet: Diagnose Power Steering Fluid Leakage
3. Task Sheet: Power Steering Pump Belt
4. Task Sheet: Service Power Steering Pump
5. Task Sheet: Inspect Power Steering Hoses and Fittings
6. Task Sheet: Power Steering System Pressure Test
7. 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](#).

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NOTES AND EVALUATION:


