

Automotive Chassis Systems 8th Edition

Chapter 7 – Hydraulic Valves and Switches

Lesson Plan



CHAPTER SUMMARY:

1. Pressure-Differential Switch (Brake Warning Switch) and Brake Fluid Level Sensor
 2. Proportioning Valve and Electronic Brake Proportioning
 3. Metering Valve (Hold-Off) Operation and Combination Valves
 4. Brake Pedal Position Sensor/Switch
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OBJECTIVES:

1. Describe the operation of a pressure-differential switch and a brake fluid level sensor switch.
 2. Describe the operation of the proportioning valve.
 3. Discuss the need and use of a metering valve.
 4. List the components included in a combination valve.
 5. Describe how a brake light switch works.
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RESOURCES: ([All resources may be found at jameshalderman.com](http://www.jameshalderman.com))

1. Task Sheet: Brake Control Valves
 2. Task Sheet: Red Brake Warning Lamp Diagnosis
 3. Task Sheet: Brake Stop Light Switch/Sensor
 4. Chapter PowerPoint
 5. [Crossword Puzzle and Word Search](#)
 6. [Videos: ASE A5 Brakes](#)
 7. [Animations: ASE A5 Brakes](#)
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ACTIVITIES:

1. Task Sheet: Brake Control Valves
 2. Task Sheet: Red Brake Warning Lamp Diagnosis
 3. Task Sheet: Brake Stop Light Switch/Sensor
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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:
