**Automotive Chassis Systems 8th Edition**

**Chapter 6 –** **Braking Hydraulic Systems**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Hydraulic Principles, Pascals Law, and Master Cylinders

2. Diagnosing Master Cylinders and Master Cylinder Service

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**OBJECTIVES:**

1. Explain how the noncompressibility of liquids is used in brake systems.

2. State Pascal’s law.

3. Describe the function, purpose, operation, and types of master cylinders.

4. Describe the process of diagnosing and troubleshooting master cylinders.

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

1. Task Sheet: Hydraulic Pressure Analysis

2. Task Sheet: Brake Pedal Height

3. Task Sheet: Master Cylinder Service

4. Task Sheet: Hydraulic System Fault Analysis

5. Chapter PowerPoint

6. [Crossword Puzzle and Word Search](https://jameshalderman.com/a5_puzzles_lib_page/)

7. [Videos: ASE A5 Brakes](https://jameshalderman.com/a5_vid_lib_page/)

8. [Animations: ASE A5 Brakes](https://jameshalderman.com/a5_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: Hydraulic Pressure Analysis

2. Task Sheet: Brake Pedal Height

3. Task Sheet: Master Cylinder Service

4. Task Sheet: Hydraulic System Fault Analysis \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**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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