**Automotive Chassis Systems 8th Edition**

**Chapter 18 –** **ABS Components and Operation**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Antilock Braking System, ABS Parts Involved, and ABS Channels

2. Nonintegral ABS, ABS Controller Inputs and Outputs, and Wheel Speed Sensor

3. Hydraulic Modulator Assembly and Advanced ABS Functions

4. Automatic Emergency Braking,

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**OBJECTIVES:**

1. Explain the need for antilock brake system (ABS).

2. Describe the operation, components, and system configurations of ABS.

3. Explain the operation of passive and active wheel speed sensors.

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

1. Task Sheet: Identify Electronic Brake Control System Components

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

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

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

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**ACTIVITIES:**

1. Task Sheet: Identify Electronic Brake Control System Components

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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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