Automotive Technology 7th Edition Chapter 105 – ABS Components and Operation Lesson Plan

CHAPTER SUMMARY:



- 1. Antilock Brake System, ABS Parts Involved, ABS Channels, and ABS Controller Inputs and Outputs
- 2. Wheel Speed Sensors, Hydraulic Modulator Assembly, and Advanced ABS Functions
- 3. Automatic Emergency Braking

OBJECTIVES:



- 1. Explain the purpose and theory of the antilock brake system (ABS).
- 2. Describe the components of ABS.
- 3. Discuss ABS channels.
- 4. Discuss ABS controller inputs and outputs.
- 5. Discuss wheel speed sensors.
- 6. Discuss hydraulic modulator assembly.
- 7. Discuss advanced ABS functions.
- 8. Discuss automatic emergency braking.



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

- 1. Task Sheet: Electronic Brake (ABS) Component Identification
- 2. Crossword Puzzle and Word Search
- 3. Chapter PowerPoint
- 4. Videos: (A5) Brakes Videos
- 5. Animations: (A5) Brakes Animations

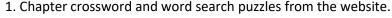
ACTIVITIES:



- 1. Task Sheet: Traction Control Identification
- 2. Crossword Puzzle and Word Search

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ASSIGNMENTS:



- 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 <u>Frequently Asked Questions</u> and <u>Tech Tips</u> sections.
- 2. Review and group discussion of the five (5) chapter Review Questions.

NOTES AND EVALUATION:



