

# Automotive Technology 7<sup>th</sup> 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



#### **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](#).



#### **NOTES AND EVALUATION:**