**Automotive Technology 7th Edition**

**Chapter 114 – Electronic Suspension Systems**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. The Need for Electronic Suspensions, and Electronic Suspension Controls and Sensors

2. Electronic Suspension System Actuators, and Types of Electronic Suspension

3. Automatic Level Control (ALC), and Troubleshooting Rear Electronic Leveling Systems

4. Magneto-Rheological (MR) Suspension

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**OBJECTIVES:**

1. Discuss the need for electronic suspension systems.

2. Explain the characteristics of the various sensors used for electronic suspension control.

3. Describe electronic suspension system actuators.

4. List the types of electronic suspension systems.

5. Describe the parts and operation of the automatic level control system.

6. Describe how to troubleshoot rear electronic leveling systems.

7. Explain how magneto-rheological shocks work. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: Electronic Suspension Diagnosis

2. Crossword Puzzle and Word Search

3. Chapter PowerPoint

4. Videos: [(A4) Suspension and Steering Videos](https://jameshalderman.com/a4_vid_lib_page/)

5. Animations: [(A4) Suspension and Steering Animations](https://jameshalderman.com/a4_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: Electronic Suspension Diagnosis

2. Crossword Puzzle and Word Search

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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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