**Automotive Technology 7th Edition**

**Chapter 68 – Ignition System Parts and Operation**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Ignition System, Ignition Coils, Ignition Switching and Triggering, and Ignition System Operation

2. Waste-Spark Ignition Systems, Coil-On-Plug Ignition, Ignition Timing, Knock Sensors, and Spark Plugs

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**OBJECTIVES:**

1. Discuss ignition systems.

2. Discuss ignition coils.

3. Discuss ignition switching and triggering.

4. Describe ignition system operation.

5. Describe the operation of waste-spark ignition systems.

6. Describe the operation of coil-on-plug ignition systems.

7. Discuss ignition timing.

8. Discuss knock sensors.

9. Describe the different types of spark plugs. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: Ignition System Identification

2. Task Sheet: Spark Plug Specifications

3. Chapter PowerPoint

4. Crossword Puzzle and Word Search

5. Videos: [(A8) Engine Performance Videos](https://jameshalderman.com/a8_vid_lib_page/)

6. Animations: [(A8) Engine Performance Animations](https://jameshalderman.com/a8_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: Ignition System Identification

2. Task Sheet: Spark Plug Specifications

3. 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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