

Automotive Electrical and Engine Performance - 9th edition

Ch29: Ignition System Parts and Operation

Lesson Plan



CHAPTER SUMMARY:

1. Ignition Systems, 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.
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RESOURCES: (All resources may be found at jameshalderman.com)

1. Task Sheet: Ignition System Identification
 2. Crossword Puzzle and Word Search
 3. Videos: (A8) Engine Performance Videos
 4. Animations: (A8) Engine Performance Animations
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ACTIVITIES:

1. Task Sheet: Ignition System Identification
 2. Crossword Puzzle and Word Search
 3. Chapter PowerPoint
 4. 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. Ten (10) question end of [Chapter Quiz](#).
 3. Five (5) end of chapter [Review Question](#) for class discussion.
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NOTES AND EVALUATION:
