**Automotive Electrical and Engine Performance - 9th edition**

**Ch13: Starting System Parts and Operation**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Cranking Circuit, Push Button Start, Starter Motor Operation, and Starter Motor Components

2. Gear-Reduction Starters, Starter Drives, Starter Solenoids, and Stop-Start Systems

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**OBJECTIVES:**

1. Describe the parts and operation of a cranking circuit.

2. Explain push button starting.

3. Discuss starter motor operation.

4. Explain the components of a starter motor.

5. Describe gear reduction starters.

6. Describe the function of starter drives.

7. Describe the function of solenoids.

8. Discuss stop-start system operation. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: Starter Relays and Solenoids

2. Crossword Puzzle and Word Search

3. Videos: (A6) Electrical/Electronic Systems Videos

4. Animations: (A6) Electrical/Electronic Systems Animations

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**ACTIVITIES:**

1. Task Sheet: Starter Relays and Solenoids

2. Chapter PowerPoint

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. 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:**

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