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

**Ch42: PCV and SAI Systems**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Crankcase Ventilation, PVC System Diagnosis, and Secondary Air-Injection System

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**OBJECTIVES:**

1. Describe the purpose and function of the positive crankcase ventilation (PCV) system.

• Discuss PCV system diagnosis.

• Explain the purpose and function of the secondary air-injection (SAI) system.

• Explain how to diagnose faults in the secondary air-injection system. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: PCV System Inspection

2. Task Sheet: PCV System Diagnosis

3. Task Sheet: Secondary Air Injection Diagnosis

4. Task Sheet: AIR Pump Electrical Component Inspection

5. Crossword Puzzle and Word Search

6. Videos: (A8) Engine Performance Videos

7. Animations: (A8) Engine Performance Animations

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**ACTIVITIES:**

1. Task Sheet: PCV System Inspection

2. Task Sheet: PCV System Diagnosis

3. Task Sheet: Secondary Air Injection Diagnosis

4. Task Sheet: AIR Pump Electrical Component Inspection

5. Chapter PowerPoint

6. 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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