

# 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.
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#### **RESOURCES:** (All resources may be found at [jameshalderman.com](http://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:**

