

Automotive Technology 7th Edition

Chapter 81 – Positive Crankcase Ventilation and Secondary Air-Injection Systems Lesson Plan



CHAPTER SUMMARY:

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

OBJECTIVES:



1. Describe the purpose and function of the positive crankcase ventilation (PCV) system.
2. Discuss PCV system diagnosis.
3. Explain the purpose and function of the secondary air-injection (SAI) system and how to diagnose faults in the 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 Component Inspection
5. Task Sheet: AIR Pump Electrical Component Inspection
6. Crossword Puzzle and Word Search
7. Chapter PowerPoint
8. Videos: [\(A8\) Engine Performance Videos](#)
9. Animations: [\(A8\) Engine Performance Animations](#)

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 Component Inspection
5. Task Sheet: AIR Pump Electrical Component Inspection
6. Crossword Puzzle and Word Search

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.

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](#).

NOTES AND EVALUATION:

