

Advanced Engine Performance Diagnosis 7th Edition

Chapter 5 – Gasoline Engine Systems

Lesson Plan



CHAPTER SUMMARY:

1. Engine Construction, Engine Parts and Systems, and Four-Stroke Cycle Operation
 2. Engine Measurement, Horsepower and Torque, and Superchargers and Turbochargers
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OBJECTIVES:

1. Describe engine construction, parts, and systems.
 2. Explain how a four-stroke cycle gasoline engine operates.
 3. Describe how engine size and compression ratio are measured.
 4. Define torque and horsepower.
 5. Explain the purpose and function of superchargers and turbochargers.
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RESOURCES: ([All resources may be found at jameshalderman.com](http://www.jameshalderman.com))

1. Task Sheet: Gasoline Engine Identification
 2. Task Sheet: General Engine Specifications
 3. Chapter PowerPoint
 4. [Crossword and Word Search Puzzles \(A8\)](#)
 5. [Crossword and Word Search Puzzles \(A1\)](#)
 6. [Videos: \(A1\) Engine Repair](#)
 7. [Animations: \(A1\) Engine Repair](#)
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ACTIVITIES:

1. Task Sheet: Gasoline Engine Identification
 2. Task Sheet: General Engine Specifications
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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. Review and group discussion of the five (5) chapter [Review Questions](#).
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NOTES AND EVALUATION:
