

Automotive Technology 7th Edition

Chapter 29 – Variable Valve Timing and Displacement Systems

Lesson Plan



CHAPTER SUMMARY:

1. Variable Valve Timing and Diagnosis of Variable Valve Timing Systems
 2. Variable Valve Timing and Lift Electronic Control and Variable Displacement Systems
 3. Variable Displacement System Diagnosis
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OBJECTIVES:

1. Explain the purpose and function of variable valve timing (VVT).
 2. List the steps involved when diagnosing a VVT system.
 3. Describe how a variable valve timing and lift electronic control (VTEC) system works.
 4. Explain the operation of variable displacement systems.
 5. Explain the diagnosis of variable displacement systems.
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RESOURCES: (All resources may be found at jameshalderman.com)

1. Task Sheet: VVT Inspect and Replace Timing Chain(s) and Gears
 2. Task Sheet: Variable Valve Timing System Diagnosis
 3. Chapter PowerPoint
 4. Crossword Puzzle and Word Search
 5. Videos: [\(A1\) Engine Repair Videos](#)
 6. Animations: [\(A1\) Engine Repair Animations](#)
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ACTIVITIES:

1. Task Sheet: VVT Inspect and Replace Timing Chain(s) and Gears
 2. Task Sheet: Variable Valve Timing System Diagnosis
 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. Review and group discussion of the five (5) chapter [Review Questions](#).
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NOTES AND EVALUATION:
