

Automotive Technology 6th Edition

Chapter 24 – Intake and Exhaust Systems

Lesson Plan

CHAPTER SUMMARY:



1. Air intake filtration and fuel-injection intake manifolds
 2. Intake manifold design, variable intake manifolds, and exhaust gas recirculation passages
 3. Exhaust manifolds, exhaust system components, and mufflers
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OBJECTIVES:



1. Explain air intake filtration.
 2. Discuss the throttle-body injection intake manifolds and port fuel-injection intake manifolds.
 3. Discuss exhaust gas recirculation passages and exhaust manifolds.
 4. Describe the purpose and function of mufflers.
 5. Describe the purpose and function of variable intake manifolds.
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RESOURCES: (All resources may be found at <http://www.jameshalderman.com>) Internet access required to hyperlink.



1. **Task Sheet ASE (A8-D-10) P-1:** Exhaust System Inspection
 2. **Task Sheet ASE (A8-D-9) P-1:** Intake Manifold Gasket Replacement
 3. Chapter PowerPoint
 4. Chapter Crossword Puzzle and Word Search
 5. Videos: [\(A1\) Engine Repair Videos](#)
 6. Videos: [\(A8\) Engine Performance Videos](#)
 7. Animations: [\(A1\) Engine Repair Animations](#)
 8. Animations: [\(A8\) Engine Performance Animations](#)
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ACTIVITIES:



1. **Task Sheet ASE (A1 through A8-A-2) P-1:** Have students complete Exhaust System Inspection Task Sheet.
 2. **Task Sheet ASE (A8-D-9) P-1:** Have students complete Intake Manifold Gasket Replacement Task Sheet.
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ASSIGNMENTS:



1. Chapter crossword and word search puzzles.
 2. Complete end of chapter 10 question quiz.
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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:

