

# Automotive Technology 6<sup>th</sup> Edition

## Chapter 28 – Engine Removal and Disassembly

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Engine repair options, engine removal, and engine disassembly
  2. Disassembly of the short block and rotating engine assemblies removal
  3. Cylinder head disassembly
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#### **OBJECTIVES:**

1. Discuss the different engine repair options.
  2. Explain the engine removal procedure.
  3. Explain the engine disassembly procedure.
  4. Explain disassembly of the short block, rotating engine assemblies removal, and cylinder head disassembly.
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**RESOURCES:** (All resources may be found at <http://www.jameshalderman.com>)

1. **Task Sheet ASE (A1-A-10) P-3:** Remove and Reinstall Engine
  2. **Task Sheet ASE (A1-B-1) P-1:** Remove Cylinder Head(s) and Inspect
  3. **Task Sheet ASE (A1-C-2) P-1:** Engine Disassembly
  4. **Task Sheet ASE (A1-C-4) P-2:** Cylinder Wall Inspection
  5. **Task Sheet ASE (A1-A-7) P-1:** Block Thread Inspection and Correction
  6. Chapter PowerPoint
  7. Chapter Crossword Puzzle and Word Search
  8. Videos: SBC teardown (time 23:45), Van engine repair (time 4:18), and Engine RnR Part 1 (time 26:37)
  9. Videos: Engine RnR Part 2 (time 6:38) and Trailblazer engine remove and reinstall (time 9:44)
  10. Videos: How To Remove / Install Freeze Plugs (time 12:49) and Distributor installation (time 2:34)
  11. Videos: Valve train teardown (time 2:36) and Removing valves (time 5:09)
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#### **ACTIVITIES:**

1. **Task Sheet ASE (A1-A-10) P-3:** Have students complete Remove and Reinstall Engine Task Sheet.
  2. **Task Sheet ASE (A1-B-1) P-1:** Have students complete Remove Cylinder Head(s) and Inspect Task Sheet.
  3. **Task Sheet ASE (A1-C-2) P-1:** Have students complete Engine Disassembly Task Sheet.
  4. **Task Sheet ASE (A1-C-4) P-2:** Have students complete Cylinder Wall Inspection Task Sheet.
  5. **Task Sheet ASE (A1-A-7) P-1:** Have students complete Block Thread Inspection and Correction 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:**



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