

Automotive Technology 6th Edition

Chapter 33 – Pistons, Rings, and Connecting Rods

Lesson Plan



CHAPTER SUMMARY:

1. Pistons, piston construction, and piston pins
 2. Piston pin retaining methods, piston rings, and piston ring construction
 3. Connecting rods and connecting rod service, piston and rod assembly
 4. Piston and rod assembly and Piston ring service
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OBJECTIVES:

1. Explain the purpose, function, and construction of pistons.
 2. Discuss piston pins and their retaining methods.
 3. Explain piston rings and their construction.
 4. Discuss connecting rods and their service.
 5. Explain piston and rod assembly and piston ring service.
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RESOURCES: (All resources may be found at <http://www.jameshalderman.com>) Internet access required to hyperlink.

1. **Task Sheet ASE (A1-A-2) P-1:** Vehicle Emission Control Information
 2. **Task Sheet ASE (A1-C-9) P-3:** Piston and Bearing Wear Patterns
 3. **Task Sheet ASE (A1-C-10) P-2:** Piston Inspection and Measurement
 4. **Task Sheet ASE (A1-C-12) P-2:** Piston Rings
 5. Chapter PowerPoint
 6. Chapter Crossword Puzzle and Word Search
 7. Videos: [\(A1\) Engine Repair Videos](#)
 8. Animations: [\(A1\) Engine Repair Animations](#)
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ACTIVITIES:

1. **Task Sheet ASE (A1-A-2) P-1:** Have students complete Vehicle Emission Control Information Task Sheet.
 2. **Task Sheet ASE (A1-C-9) P-3:** Have students complete Piston and Bearing Wear Patterns Task Sheet.
 3. **Task Sheet ASE (A1-C-10) P-2:** Have students complete Piston Inspection and Measurement Task Sheet.
 4. **Task Sheet ASE (A1-C-12) P-2:** Have students complete Piston Rings 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:


