

Automotive Technology 7th Edition

Chapter 50 – Starting System Diagnosis and Service

Lesson Plan



CHAPTER SUMMARY:

1. Starting System Troubleshooting Procedure, Voltage Drop Testing, and Control Circuit Testing
2. Starter Amperage Test, Starter Removal, Bench Testing, and Starter Installation
3. Starter System Symptom Guide



OBJECTIVES:

1. Explain the procedure to troubleshoot a starting system problem.
2. Discuss how to perform a voltage drop test on the cranking circuit.
3. Perform control circuit testing.
4. Perform a starter amperage test and determine necessary action.
5. Describe the procedure to remove a starter motor.
6. Explain starter motor bench testing.
7. Describe the procedure to install a starter motor.
8. Describe how to troubleshoot starting systems based on their symptoms.



RESOURCES: (All resources may be found at jameshalderman.com)

1. Task Sheet: Starter Disassembly and Testing
2. Task Sheet: Starter Solenoid Testing
3. Task Sheet: Starter Voltage Drop/Current Draw Tests
4. Task Sheet: Starter Relays and Solenoids
5. Task Sheet: Remove and Install the Starter
6. Chapter PowerPoint
7. Crossword Puzzle and Word Search
8. Videos: [\(A6\) Electrical/Electronic Systems Videos](#)
9. Animations: [\(A6\) Electrical/Electronic Systems Animations](#)



ACTIVITIES:

1. Task Sheet: Starter Disassembly and Testing
2. Task Sheet: Starter Solenoid Testing
3. Task Sheet: Starter Voltage Drop/Current Draw Tests
4. Task Sheet: Starter Relays and Solenoids
5. Task Sheet: Remove and Install the Starter
6. Crossword Puzzle and Word Search



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.



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:


