**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

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**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](https://jameshalderman.com/a6_vid_lib_page/)

9. Animations: [(A6) Electrical/Electronic Systems Animations](https://jameshalderman.com/a6_anim_lib_page/)

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**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

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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:**

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