

Advanced Engine Performance Diagnosis 7th Edition

Chapter 13 – Starting and Charging System Diagnosis

Lesson Plan

CHAPTER SUMMARY:



1. Batteries, Battery Construction Types, Battery Testing, and Battery Drain Test
 2. Battery Charging, Battery Registration, Cranking Systems, and Stop/Start Systems
 3. Charging Circuit
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OBJECTIVES:



1. Describe the purpose, function, and types of batteries.
 2. Discuss methods for checking the condition of a battery.
 3. Describe how to perform a battery drain test and isolate a problem.
 4. Explain battery charging and coding.
 5. Describe the components and operation of cranking systems.
 6. Describe the purpose and operation of stop/start systems.
 7. List the steps necessary to perform a voltage-drop test.
 8. Explain how to test the charging circuit.
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RESOURCES: ([All resources may be found at jameshalderman.com](http://www.jameshalderman.com))



1. Task Sheet: Starting and Charging System
 2. Chapter PowerPoint
 3. [Crossword and Word Search Puzzles \(A6\)](#)
 4. [Crossword and Word Search Puzzles \(A8\)](#)
 5. [Videos: \(A6\) Electrical/Electronic Systems](#)
 6. [Videos: \(A8\) Engine Performance](#)
 7. [Animations: \(A6\) Electrical/Electronic Systems](#)
 5. [Animations: \(A8\) Engine Performance](#)
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ACTIVITIES:



1. Task Sheet: Starting and Charging System
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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:

