

Advanced Engine Performance Diagnosis 8th Edition

Chapter 2 – Strategy-Based Diagnosis

Lesson Plan



CHAPTER SUMMARY:

1. The Eight Step Diagnostic Procedure, Scan Tools, and Retrieval of Diagnostic Information
 2. Troubleshooting Using Diagnostic Trouble Codes and Manufacturer's Diagnostic Routines
 3. Completing System Repairs
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OBJECTIVES:

1. List the steps of the diagnostic process.
 2. Discuss the types of scan tools that are used to assess vehicle components.
 3. Explain how to retrieve diagnostic information and how to use DTCs.
 4. Explain the troubleshooting procedures to follow if a diagnostic trouble code has been set.
 5. Explain manufacturer's diagnostic routines.
 6. Discuss completing system repairs, including resetting the PCM and road test (drive cycle).
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RESOURCES: (All resources may be found at jameshalderman.com)

1. Task Sheet: Engine Problem Analysis
 2. Task Sheet: No-Code Diagnosis of Driveability Concerns
 3. Task Sheet: Step-by-Step Diagnosis
 4. Chapter PowerPoint
 5. Crossword and Word Search Puzzles
 6. Videos: (A0) Vehicle Service Information, Identification, and Routine Maintenance
 7. Animations: (A0) Vehicle Service Information, Identification, and Routine Maintenance
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ACTIVITIES:

1. Task Sheet: Engine Problem Analysis
 2. Task Sheet: No-Code Diagnosis of Driveability Concerns
 3. Task Sheet: Step-by-Step Diagnosis
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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:

