

Automotive Technology 7th Edition

Chapter 83 – Onboard Diagnosis

Lesson Plan



CHAPTER SUMMARY:

1. On-Board Diagnostics Generation-II (OBD-II) Systems, and Diagnostic Executive and Task Manager
2. Monitors, OBD-II Monitor Information, Enabling Criteria, and OBD-II Numbering Designation
3. OBD-II Freeze-Frame, Enabling Conditions, PCM Tests, and Global OBD-II
4. Diagnosing Problems Using Mode Six.



OBJECTIVES:

1. Explain the purpose and function of OBD systems.
2. Discuss the diagnostic executive.
3. List the various continuous and noncontinuous monitors.
4. Discuss OBD-II monitor information.
5. Explain enabling criteria.
6. Explain the numbering designation of OBD-II diagnostic trouble codes.
7. Explain the information captured by freeze-frame.
8. Describe the criteria to enable an OBD monitor.
9. Describe PCM tests related to OBD systems.
10. List the operation modes of a global scan tool.
11. Describe mode six diagnosis.



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

1. Task Sheet: OBD II Connector Identification
2. Task Sheet: Retrieving OBD II Diagnostic Trouble Codes
3. Task Sheets: OBD II Monitors Status
4. Crossword Puzzle and Word Search
5. Chapter PowerPoint
6. Videos: [\(A8\) Engine Performance Videos](#)
7. Animations: [\(A8\) Engine Performance Animations](#)



ACTIVITIES:

1. Task Sheet: OBD II Connector Identification
2. Task Sheet: Retrieving OBD II Diagnostic Trouble Codes
3. Task Sheets: OBD II Monitors Status
4. 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:


