Automotive Technology 6th Edition
Chapter 89 – 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 DTC numbering designation
3. OBD-II freeze-frame, enabling conditions, PCM tests, and global OBD-II mode
4. Diagnosing problems using mode six
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OBJECTIVES:
1. Explain the purpose and function of systems.
2. List the various continuous and noncontinuous monitors.
3. Explain the numbering designation of OBD-II diagnostic trouble codes.
4. Explain the information captured by freeze-frame and the criteria to enable an OBD monitor.
5. Describe PCM tests related to OBD systems.
6. List the operation modes of a global scan tool.
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RESOURCES: (All resources may be found at http://www.jameshalderman.com) Internet access required to hyperlink.
1. Task Sheet ASE (A8-A-2) P-1: OBD II Connector Identification
2. Task Sheet ASE (A8-B-1) P-1: Retrieving OBD II Diagnostic Trouble Codes
3. Task Sheet ASE (A8-B-1) P-1, (A8-B-4) P-1: OBD II Monitors Status
4. Chapter PowerPoint
5. Chapter Crossword Puzzle and Word Search
6. Videos: (A8) Engine Performance Videos
7. Animations: (A8) Engine Performance Animations
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ACTIVITIES:
1. Task Sheet ASE (A8-A-2) P-1: Have students complete OBD II Connector Identification Task Sheet.
2. Task Sheet ASE (A8-B-1) P-1: Have students complete Retrieving OBD II Diagnostic Trouble Codes Task Sheet.
3. Task Sheet ASE (A8-B-1) P-1, (A8-B-4) P-1: Have students complete OBD II Monitors Status Task Sheet.
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ASSIGNMENTS:
1. Chapter crossword and word search puzzles.
2. Complete end of chapter 10 question quiz.
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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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