

Advanced Engine Performance Diagnosis 7th Edition

Chapter 10 – On-Board Diagnosis

Lesson Plan



CHAPTER SUMMARY:

1. On-Board Diagnostics Generation-II (OBD-II) Systems and OBD-II DTC Numbering Designation
 2. OBD-II Freeze-Frame, Diagnostic Executive or Task Manager, and Monitors
 3. Non-Continuous (Once-Per-Trip) Monitors
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OBJECTIVES:

1. Understand the purpose and function of on-board diagnostics generation-II (OBD-II) systems.
 2. Discuss the numbering designation of OBD-II diagnostic trouble codes.
 3. List the types of information obtained from a freeze-frame.
 4. Understand the information obtained from an on-board diagnostics monitor and the criteria to enable an OBD monitor.
 5. List the continuous and non-continuous monitors.
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RESOURCES: ([All resources may be found at jameshalderman.com](http://www.jameshalderman.com))

1. Task Sheet: Drive Trace Pre-Conditioning
 2. Task Sheet: OBD II Connector Identification
 3. Task Sheet: Retrieving OBD II Diagnostic Trouble Codes
 4. Task Sheet: Set Opposite Code
 5. Task Sheet: Freeze Frame and MIL Activity
 6. Task Sheet: Step-by-Step Diagnosis
 7. Task Sheet: Fuel-Related Scan Data
 8. Task Sheet: Misfire Monitor Activity
 9. Task Sheet: I/M Monitors Status
 10. Task Sheet: Repair Verification
 11. Chapter PowerPoint
 12. [Crossword and Word Search Puzzles](#)
 13. [Videos: \(A8\) Engine Performance](#)
 14. [Animations: \(A8\) Engine Performance](#)
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ACTIVITIES:

1. Task Sheet: Drive Trace Pre-Conditioning
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