**Advanced Engine Performance Diagnosis 7th Edition**

**Chapter 11 –** **Global OBD-II and Mode $06**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. What is Global OBD II, Global OBD II Modes, and Diagnosing Problems Using Mode $06

2. Accessing Global OBD II, Mode $06, and Oxygen Sensor Heater Mode $06 Test (GM)

3. Engine Misfire Tests (Ford) and Ford Oxygen Sensor Mode $06 Test

4. GM CAN Oxygen Sensor Mode $06 Test and Ford EGR Test

5. GM Catalyst Efficiency Test, GM EVAP Test (CAN), and Permanent Codes

6. Where to Get Mode $06 Information

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**OBJECTIVES:**

1. Explain Global OBD II and its modes of operation.

2. List the steps for diagnosing problems using mode $06.

3. Access global OBD II on a scan tool.

4. Describe how mode $06 can be used to identify a problem.

5. Explain how to convert raw numbers to usable data for various types of mode $06 tests.

6. Describe permanent fault codes and how to clear them.

7. State where mode $06 information can be obtained.

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**RESOURCES:** [(All resources may be found at jameshalderman.com)](https://jameshalderman.com/)

1. Task Sheet: Global OBD II

2. Task Sheet: Mode $06 Diagnosis

3. Chapter PowerPoint

4. [Crossword and Word Search Puzzles](https://jameshalderman.com/a8_puzzles_lib_page/)

5. [Videos: (A8) Engine Performance](https://jameshalderman.com/a8_vid_lib_page/)

6. [Animations: (A8) Engine Performance](https://jameshalderman.com/a8_anim_lib_page/) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ACTIVITIES:**

1. Task Sheet: Global OBD II

2. Task Sheet: Mode $06 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:**

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