**Advanced Engine Performance Diagnosis 8th Edition**

**Chapter 8 – CAN and Network Communications**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Network Fundamentals and Module Communications Configuration

2. General Motors Communications Protocols and Ford Network Communications Protocols

3. Chrysler Communications Protocols, Controller Area Network, and Honda/Toyota Communications

4. European BUS Communications, Network Communications Diagnosis, and OBD-II Data Link Connector

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**OBJECTIVES:**

1. Discuss how networks connect to the data link connector and to other modules.

2. Describe the types of networks and serial communications used on vehicles.

3. Describe General Motors communications protocols.

4. Describe Ford communications protocols.

5. Describe Chrysler communications protocols.

6. Describe the features of a controller area network.

7. Describe the network communications of common Asian vehicle brands.

8. Describe European Bus communications.

9. Explain how to diagnose module communication faults.

10. Discuss the OBD-II data link connector. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: Module Identification and Status

2. Task Sheet: Module Communication

3. Chapter PowerPoint

4. Crossword and Word Search Puzzles

5. Videos: (A8) General Engine Diagnosis

6. Animations: (A8) General Engine Diagnosis

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**ACTIVITIES:**

1. Task Sheet: Module Identification and Status

2. Task Sheet: Module Communication

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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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