# Automotive Electrical and Engine Performance - 9th edition Ch11: CAN and Network Communications Lesson Plan

### **CHAPTER SUMMARY:**

- 1. Network Fundamentals, Module Communications Configuration, and GM Communication Protocols
- 2. Ford Network Communication Protocols, Chrysler Communication Protocols, and Control Area Network
- 3. Honda/Toyota Communications, European BUS Communications, and Network Communications Diagnosis
- 4. OBD-II Data Link Connector





- 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.

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

- 1. Task Sheet: Module Communication
- 2. Crossword Puzzle and Word Search
- 3. Videos: (A6) Electrical/Electronic Systems Videos
- 4. Animations: (A6) Electrical/Electronic Systems Animations

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## **ACTIVITIES:**

- 1. Task Sheet: Module Communication
- 2. Chapter PowerPoint
- 3. Crossword Puzzle and Word Search

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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 <u>Frequently Asked Questions</u> and <u>Tech Tips</u> sections.
- 2. Ten (10) question end of Chapter Quiz.
- 3. Five (5) end of chapter Review Question for class discussion.

NOTES AND EVALUATION:



