

Automotive Technology 6th Edition

Chapter 73 – Computer Fundamentals

Lesson Plan



CHAPTER SUMMARY:

1. Computer fundamentals, computer functions, and digital computers
 2. Computer input sensors and computer outputs
-



OBJECTIVES:

1. List the various parts of onboard computers.
 2. Explain the purpose and function of onboard computers.
 3. List to an automotive computer's input sensors and the output devices (actuators) it controls.
-



RESOURCES: (All resources may be found at <http://www.jameshalderman.com>)

1. **Task Sheet ASE (A8-A-9) P-2:** PCM Actuators Diagnosis
 2. Chapter PowerPoint
 3. Chapter Crossword Puzzle and Word Search
 4. Videos: ECU Training (time 10:38) and Powertrain Control Module (PCM) (time 6:22)
 5. Videos: 5-volt reference voltage (time 1:48) and ECM circuit and wiring diagram (time 3:21)
 6. Videos: ECM power unit (time 1:30) and ECM ground circuits (time 1:30)
-



ACTIVITIES:

1. **Task Sheet ASE:** Have students complete PCM Actuators Diagnosis Task Sheet.
-



ASSIGNMENTS:

1. Chapter crossword and word search puzzles.
 2. Complete end of chapter 10 question quiz.
-



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.
-



NOTES AND EVALUATION:
