

Automotive Technology 6th Edition

Chapter 82 – Electronic Throttle Control System

Lesson Plan

CHAPTER SUMMARY:



1. Electronic throttle control (ETC) systems and normal operation of the ETC system
 2. Acceleration pedal position sensor and throttle body assembly
 3. Throttle position (TP) sensor and diagnosis of electronic throttle control systems
 4. ETC throttle follower test and servicing electronic throttle systems
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OBJECTIVES:



1. Explain how an electronic throttle-control system works.
 2. Explain how the position of the accelerator pedal is detected in an electronic throttle-control system.
 3. List the parts of a typical electronic throttle control system.
 4. Describe how to diagnose faults in an electronic throttle control system.
 5. Explain how to service an electronic throttle system.
 6. This chapter will help prepare for ASE content area “E” (Computerized Engine Controls Diagnosis and Repair).
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RESOURCES: (All resources may be found at <http://www.jameshalderman.com>)



1. **Task Sheet AS (A8-A-2) P-1E:** Electronic Throttle Control System ID
 2. Chapter PowerPoint
 3. Chapter Crossword Puzzle and Word Search
 4. Animations: Electronic Throttle Control System ID
 5. Videos: Electronic throttle (time 4:15) and Accelerator pedal position sensor testing (time 3:22)
 6. Videos: Accelerator pedal position sensor (time 5:35) and VSS Circuit (time 1:27)
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ACTIVITIES:



1. **Task Sheet ASE (A8-A-2) P-1:** Have students complete Electronic Throttle Control System ID Task Sheet.
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ASSIGNMENTS:



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

