Advanced Engine Performance Diagnosis 7th Edition Chapter 18 – Electronic Throttle Control System Lesson Plan



CHAPTER SUMMARY:

- 1. Electronic Throttle Control (ETC) System and Normal Operation of the ETC System
- 2. Acceleration Pedal Position Sensor, Throttle Body Assembly, and Throttle Position (TP) Sensor
- 3. Diagnosis of Electronic Throttle Control System and ETC Throttle Follower Test
- 4. Servicing Electronic Throttle Systems

OBJECTIVES:



- 1. Describe the advantages of an electronic throttle control (ETC) system.
- 2. Explain how an electronic throttle control system works.
- 3. Explain how an accelerator pedal position sensor works.
- 4. List the parts of a typical electronic throttle body assembly.
- 5. Describe the two types of throttle position sensors.
- 6. Describe how to diagnose faults in an electronic throttle control system.
- 7. Explain how to service an electronic throttle system.



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

- 1. Task Sheet: Electronic Throttle Control System Identification
- 2. Chapter PowerPoint
- 3. Crossword and Word Search Puzzles (A8)
- 4. Videos: (A8) Engine Performance
- 5. Animations: (A8) Engine Performance

ACTIVITIES:



1. Task Sheet: Electronic Throttle Control System Identification

1. Cha



- 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.



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:



