

# Advanced Engine Performance Diagnosis 7<sup>th</sup> Edition

## Chapter 25 – Electronic Transmission Controls

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Transmission Control Module, Sensors, Transmission Solenoids, and Adaptive Strategies
  2. Transmission Control Module Calibration
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#### **OBJECTIVES:**

1. Explain how the automatic transmissions/transaxles are controlled electronically.
  2. Explain the function of sensors and switches for electronic control of the transmission.
  3. Identify the types of transmission solenoids.
  4. Discuss adaptive strategies and controls for electronically controlled automatic transmissions/transaxles.
  5. Explain the need for calibrating the transmission control module after it is replaced or reprogrammed.
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#### **RESOURCES:** ([All resources may be found at jameshalderman.com](http://www.jameshalderman.com))

1. Task Sheet: Diagnose Electrical/Electronic Concerns
  2. Chapter PowerPoint
  3. [Crossword and Word Search Puzzles \(A2\)](#)
  4. [Videos: \(A2\) Automatic Transmissions and Transaxles](#)
  5. [Animations: \(A2\) Automatic Transmissions and Transaxles](#)
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#### **ACTIVITIES:**

1. Task Sheet: Diagnose Electrical/Electronic Concerns
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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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