

# Automotive Technology 6<sup>th</sup> Edition

## Chapter 86 – Exhaust Gas Recirculation Systems

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Exhaust gas recirculation systems and OBD-II EGR monitoring strategies
  2. Diagnosing a defective EGR system and EGR-related OBD-II diagnostic trouble codes
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#### **OBJECTIVES:**

1. Discuss the purpose and function of exhaust gas recirculation (EGR) systems.
  2. Explain the strategies to monitor onboard diagnostics generation II (OBD-II) exhaust gas recirculation (EGR) systems.
  3. Explain how to diagnose a defective EGR system.
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**RESOURCES:** (All resources may be found at <http://www.jameshalderman.com>) Internet access required to hyperlink.

1. Task Sheet ASE (A8-E-3) P-2: EGR System Diagnosis
  2. Task Sheet ASE (A8-E-3) P-2: Service EGR System
  3. Task Sheet ASE (A8-E-3) P-2: EGR Electrical Sensors
  4. Chapter PowerPoint
  5. Chapter Crossword Puzzle and Word Search
  6. Videos: [\(A8\) Engine Performance Videos](#)
  7. Animations: [\(A8\) Engine Performance Animations](#)
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#### **ACTIVITIES:**

1. Task Sheet ASE (A8-E-3) P-2: Have students complete EGR System Diagnosis 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:**

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