

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

## Chapter 77 – Mass Air Flow Sensors

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Speed density systems, mass airflow sensor types, and Karmen vortex sensors
  2. PCM uses for airflow sensors, testing mass airflow sensors, and MAF sensor contamination
  3. MAF sensor scope testing and MAF-related diagnostic trouble codes
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#### **OBJECTIVES:**

1. Discuss how MAF sensors work and describe the types of MAF sensors.
  2. Discuss the PCM uses for the MAF sensor.
  3. List the methods that can be used to test MAF sensors.
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  5. Discuss the PCM uses for the MAF sensor.
  6. list the methods that can be used to test MAF sensors.
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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-A-9) P-2:** MAF Sensor Diagnosis
  2. Chapter PowerPoint
  3. Chapter Crossword Puzzle and Word Search
  4. Videos: [\(A8\) Engine Performance Videos](#)
  5. Animations: [\(A8\) Engine Performance Animations](#)
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#### **ACTIVITIES:**

1. **Task Sheet ASE (A8-A-9) P-2:** Have students complete MAF Sensor 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:**