

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

## Chapter 64 – Air Management Systems

### Lesson Plan

#### **CHAPTER SUMMARY:**



1. Airflow control, air temperature control, and air filtration
  2. Cases and ducts and plenum and control doors
  3. Nonelectrical HVAC controls and electrical HVAC controls
  4. Blower motors
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#### **OBJECTIVES:**



1. Discuss the different components of an air management system.
  2. Explain airflow control and air temperature control in an A/C system.
  3. Discuss air filtration, air ducts, and plenum and control doors.
  4. Explain nonelectrical and electronic HVAC controls.
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**RESOURCES:** (All resources may be found at <http://www.jameshalderman.com>)



1. **Task Sheet ASE (A7-D-1) P-1:** Blower Motor Circuit
  2. Chapter PowerPoint
  3. Chapter Crossword Puzzle and Word Search
  4. Animations: Automatic Temperature Control – ATC Air Quality
  5. Animations: Automatic Temperature Control – ATC Cool Adjust
  6. Animations: Automatic Temperature Control – ATC Cool
  7. Animations: Automatic Temperature Control – ATC Humidity
  8. Videos: HVAC Controls Basics (time 7:55) and HVAC Systems, Power & Control (time 37:01)
  9. Videos: HVAC Blower Motor & Circuit (time 3:27) and How a cabin air filter works (time 2:07)
  10. Videos: How automotive HVAC systems work (time 1:38)
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#### **ACTIVITIES:**



1. **Task Sheet ASE (A7-D-1) P-1:** Have students complete Blower Motor Circuit 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:**

