

Automotive Technology 6th Edition

Chapter 65 – Automatic Air-Conditioning Systems Operation

Lesson Plan

CHAPTER SUMMARY:



1. Airflow management and automatic air conditioning
 2. Actuators, cabin filters, vacuum control circuits, and electric servomotor circuits
 3. Blower motor controls, dual-zone climate controls, and rear air-conditioning systems
 4. Recirculation operation and hybrid electric vehicle heating and cooling systems
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OBJECTIVES:



1. Explain airflow management and the sensors and actuators used in automatic air conditioning.
 2. Discuss the filters and controls used in automatic air conditioning.
 3. Explain dual-zone climate controls, rear air-conditioning system operation, and recirculation operation.
 4. Describe how hybrid electrical vehicle heating and cooling systems are different from conventional systems.
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RESOURCES: (All resources may be found at <http://www.jameshalderman.com>) Internet access required to hyperlink.



1. **Task Sheet ASE (A7-D-8) P-2:** Automatic/Dual Climate System ID
 2. **Task Sheet ASE (A7-D-8) P-2:** Automatic AC System Operation
 3. Chapter PowerPoint
 4. Chapter Crossword Puzzle and Word Search
 5. Videos: [\(A7\) Heating & Air Conditioning Videos](#)
 6. Animations: [\(A7\) Heating & Air Conditioning Animations](#)
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ACTIVITIES:



1. **Task Sheet ASE (A7-D-8) P-2:** Have students complete Automatic/Dual Climate System ID Task Sheet.
 2. **Task Sheet ASE (A7-D-8) P-2:** Have students complete Automatic AC System Operation 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:

