**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](https://jameshalderman.com/a7_vid_lib_page/)

6. Animations: [(A7) Heating & Air Conditioning Animations](https://jameshalderman.com/a7_anim_lib_page/)

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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:**

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