

# Automotive Technology 7<sup>th</sup> Edition

## Chapter 63 – Automatic Air-Conditioning and Heat Pump Systems

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Automatic Temperature Control System, Sensors, Airflow Control, and Actuators
2. Automatic HVAC Controls, Automatic Climatic Control Diagnosis, and Heat Pump Systems

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#### **OBJECTIVES:**



1. Discuss the purpose and function of automatic temperature control (ATC) systems.
2. Discuss the sensors used in ATC systems.
3. Describe airflow control.
4. Describe actuators.
5. Discuss the purpose of automatic HVAC controls.
6. Explain the automatic climatic control diagnostic procedure.
7. Discuss heat pump systems.

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#### **RESOURCES:** (All resources may be found at jameshalderman.com)



1. Task Sheet: Automatic/Dual Climate Control Systems
2. Chapter PowerPoint
3. Crossword Puzzle and Word Search
4. Videos: [\(A7\) Heating & Air Conditioning Videos](#)
5. Animations: [\(A7\) Heating & Air Conditioning Animations](#)

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#### **ACTIVITIES:**



1. Task Sheet: Automatic/Dual Climate Control Systems
2. Crossword Puzzle and Word Search

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#### **ASSIGNMENTS:**



1. Chapter crossword and word search puzzles from the website.
2. Complete end of chapter quiz from the textbook.
3. Complete multiple choice and short answer quizzes downloaded from the website.

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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:**

