

Automotive Technology 7th Edition

Chapter 65 – Refrigerant Recovery, Recycling, and Recharging

Lesson Plan



CHAPTER SUMMARY:

1. Safety First, SAE J Standards, Refrigerant Identification, A/C Servicing, and Refrigerant Recovery
2. Recycling Refrigerant, Flushing an A/C System, Replacing Components, and Inline Filter
3. Evacuating the System, Recharging the System, and Sealants and Stop Leaks



OBJECTIVES:

1. Explain A/C service safety practices.
2. Explain SAE J standards.
3. Discuss the procedure for identifying refrigerants in an A/C system.
4. Describe the steps involved in A/C servicing.
5. Explain the procedure for refrigerant recovery.
6. Explain the procedure for recycling refrigerant.
7. Discuss the purpose of flushing an A/C system.
8. Describe component replacement including in-line filter and refrigerant oil.
9. Explain the procedure for evacuating an A/C system.
10. Explain the procedure for recharging an A/C system.
11. Discuss sealants and stop leaks.



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

1. Task Sheet: Recycle Refrigerant
2. Task Sheet: Refrigerant Handling Equipment
3. Task Sheet: Refrigerant Identification/ Read Pressures
4. Task Sheet: Evacuate and Charge A/C System
5. Chapter PowerPoint
6. Crossword Puzzle and Word Search
7. Videos: [\(A7\) Heating & Air Conditioning Videos](#)
8. Animations: [\(A7\) Heating & Air Conditioning Animations](#)



ACTIVITIES:

1. Task Sheet: Recycle Refrigerant
2. Task Sheet: Refrigerant Handling Equipment
3. Task Sheet: Refrigerant Identification/ Read Pressures
4. Task Sheet: Evacuate and Charge A/C System
5. Crossword Puzzle and Word Search



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.



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](#).

NOTES AND EVALUATION:
