

Automotive Technology 7th Edition
Chapter 61: A/C System Components, Operation, and Service
Short Answer Quiz

Name: _____ Date: _____

1. Describe the problems associated with metal aluminum tubing in an A/C system

2. What are the typical hose sizes in terms of ID for the suction line, liquid line, and discharge line in an A/C system?

3. Explain the difference between early R-12 hoses and the hoses designed for R-134a in terms of permeation.

4. What is the significance of O-ring colors in A/C systems, and what do the colors black, blue, and green typically indicate?

5. Describe the function of a relay in an A/C system and explain why it is essential.

Automotive Technology 7th Edition
Chapter 61: A/C System Components, Operation, and Service
Short Answer Quiz

Name: _____ Date: _____

6. What are the typical functions of various electrical switches used in A/C systems?

7. Explain the potential problem created when the rear TXV shuts off the flow through the rear evaporator in an A/C system.

8. When replacing certain components in the A/C system, such as the compressor, evaporator, or TXV, what other component should also be replaced and why?

9. Describe the difference between a manifold-type connector and a spring-lock fitting in an A/C system.

10. What are the typical amounts of oil removed when certain A/C components are taken out, such as the accumulator, condenser, evaporator, each hose, and receiver-drier?
