

**Chapter 14 A/C Inspection, Performance Testing, and Leak Detection**

NAME \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

1. How can it be verified that the compressor clutch is working?

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2. What are indications of a broken door under the dash?

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3. What is needed to straighten the fins of the condenser, which may have been bent by road debris?

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4. Why does duct (vent) temperature vary with the humidity?

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5. What methods can be used to find refrigerant leaks?

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## Answer Key

Testname: AHAC9SHORT14

1. The AC compressor clutch can be verified that it has engaged by visual inspection by observing that the center part of the clutch is rotating or a click is heard when the air conditioning system is engaged.

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2.
  - Clicking noise from the actuator motor assembly as it tries to move, a broken door is likely the cause.
  - Outlet temperature can change from hot to cold or from cold to hot at any time, especially when cornering because the broken door is being forced one way or the other due to the movement of the vehicle.
  - A change in the temperature when the fan speed is changed.

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3. A fin comb.

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4. The higher the relative humidity, the more difficult it is for the air-conditioning system to lower the temperature inside the vehicle.

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5.
  1. Visual inspection. Look for oily areas that are formed when refrigerant leaks.
  2. Electronic leak detector.
  3. Dye in the refrigerant.
  4. Soap solution. Mix a few drops of liquid soap or detergent into a small glass of water.

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