

Name _____

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

1) How do you diagnose the lack of heat from the heater?

2) Why is a desiccant needed in automotive air-conditioning systems?

3) What is the operation of the typical automotive air-conditioning system?

4) How does the air-conditioning system remove moisture from the air?

Answer Key

Testname: INTRO_SHORT27

1) The heater requires hot coolant to function so the first step is to check that the engine cooling system is functioning correctly. Then check that both heater hoses are hot.

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2) The desiccant removes any moisture that can get into the system through microscopic holes in the hoses.

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3) The A/C system compresses a low-pressure gas into a high-pressure gas, which then flows through the condenser where the high-pressure gas is cooled into a high-pressure liquid. The high-pressure liquid is then expanded by an orifice or expansion valve to create a low-pressure gas, which picks up heat from the interior of the vehicle by airflow past the evaporator.

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4) Moisture is removed by the process of condensation that occurs when moist air is exposed to the cool evaporator.

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