

Name \_\_\_\_\_

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

1) Why is a feedback potentiometer used on an electric actuator?

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2) How does a dual-zone climate control system work?

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3) What components are needed for rear air-conditioning and heat?

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4) What are the three airflow sections in a typical HVAC system?

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5) What are the sensors used in a typical automatic temperature control (ATC) system?

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## Answer Key

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- 1) Feedback potentiometers are used to provide the controller with the actual position of the door or valve.  
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- 2) In a dual-zone climate control system, the ducts and airflow are split and two air mix doors are used, with each door being controlled by its own actuator.  
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- 3) Most rear HVAC systems include the following components:
  - A larger capacity air-conditioning compressor
  - A second evaporator located at the rear of the vehicle
  - A second heater core located at the rear of the vehicle
  - A second blower motor and blower motor control at the rear of the vehicle
  - Lines and fittings connecting the front heater and air-conditioning components to the rear system
  - Rear controls for speed and temperature on some modelsPage Ref: 786
- 4) The three major airflow sections include the air inlet section, the plenum section and the air distribution section.  
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- 5) The sensors that are usually used include the outside air temperature (OAT), also called the ambient temperature sensor); in-vehicle temperature sensor; the discharge air temperature (DAT) sensor; evaporator temperature (EVT) sensor and the sun load sensor  
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