

Chapter 12 Automac HVAC Control Circuits

NAME _____

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

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

2. What are the three airflow sections in a typical HVAC system?

3. Why is a feedback potentiometer used on an electric actuator?

4. What is the purpose of the aspirator tube in the in-vehicle temperature sensor section?

5. What is the difference between an aftermarket scan tool and a factory scan tool?

Answer Key

Testname: AHAC9SHORT12

1. 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.
[Page Ref: 167-170](#)
2. The three major airflow sections include the air inlet section, the plenum section and the air distribution section.
[Page Ref: 171](#)
3. Feedback potentiometers are used to provide the controller with the actual position of the door or valve.
[Page Ref: 172](#)
4. The purpose of the aspirator tube is to create a low pressure area to draw air from the interior of the vehicle past the in-vehicle temperature sensor.
[Page Ref: 168](#)
5. All factory scan tools are designed to provide bidirectional capability, which allows the service technician the opportunity to operate components using the scan tool, thereby confirming that the component can work when commanded. Aftermarket scan tools are scan tools that are designed to function on more than one brand of vehicle.
[Page Ref: 178](#)