

## Too Hot in Vehicle - Auxiliary (w/o Sunroof)

### Test Description

The numbers below refer to the step numbers on the diagnostic table.

6. The specified values are from the A/C System Performance Test.

Step	Action	Values	Yes	No
<i>Schematic Reference:</i> <a href="#">HVAC Schematics</a>  DEFINITION: Auxiliary air temperature can not be adjusted from one or both auxiliary controls or auxiliary cooling is insufficient.				
1	Did you review the HVAC operation and perform the necessary inspections?	--	Go to <a href="#">Step 2</a>	Go to <a href="#">Symptoms - HVAC Systems - Manual</a>
2	<p><b>Important::</b> The auxiliary HVAC control assembly cannot request A/C compressor operation. An A/C request must be generated by the HVAC control module to provide cooled airflow through the auxiliary system.</p> Does the HVAC control module operate and provide sufficient cooling?	--	Go to <a href="#">Step 3</a>	Go to <a href="#">Too Hot in Vehicle</a>
3	<ol style="list-style-type: none"> <li>1. Turn ON the ignition, with the engine OFF.</li> <li>2. Select REAR CNTL on the front auxiliary HVAC control assembly.</li> <li>3. Place the A/C auxiliary blower motor switch in each speed position.</li> </ol> Does the auxiliary blower motor operate at all?	--	Go to <a href="#">Step 4</a>	Go to <a href="#">Auxiliary Blower Motor Inoperative</a>
4	Does the auxiliary blower motor operate correctly for each speed position?	--	Go to <a href="#">Step 5</a>	Go to <a href="#">Auxiliary Blower Motor Malfunction</a>
5	Does the Too Hot In Vehicle concern occur when A/C cooling is desired?	--	Go to <a href="#">Step 6</a>	Go to <a href="#">Step 7</a>
6	Perform the refrigerant system performance test. Refer to <a href="#">Air Conditioning (A/C) System Performance Test</a> .  Did you find and correct the condition?	--	Go to <a href="#">Step 30</a>	Go to <a href="#">Step 7</a>
7	<ol style="list-style-type: none"> <li>1. Select REAR CNTL on the front auxiliary HVAC control assembly.</li> <li>2. Observe the auxiliary air temperature actuator drive shaft.</li> <li>3. Adjust the rear auxiliary air temperature switch.</li> </ol>	--		

	Does the auxiliary air temperature actuator drive shaft rotate at all?		Go to <a href="#">Step 8</a>	Go to <a href="#">Step 10</a>
8	<ol style="list-style-type: none"> <li>1. Select OFF on the front auxiliary HVAC control assembly.</li> <li>2. Adjust the front auxiliary air temperature switch.</li> </ol> <p>Does the auxiliary air temperature actuator drive shaft rotate at all?</p>	--	Go to <a href="#">Step 9</a>	Go to <a href="#">Step 13</a>
9	<p>Inspect the auxiliary air temperature door and the auxiliary air temperature actuator for the following conditions:</p> <ul style="list-style-type: none"> <li>• Misaligned auxiliary air temperature actuator. Refer to <a href="#">Auxiliary Temperature Valve Actuator Replacement</a> .</li> <li>• Broken or binding linkages or auxiliary air temperature door.</li> <li>• Obstruction that prevents the auxiliary air temperature door from operating within it's full range of motion.</li> <li>• Missing seals to the auxiliary air temperature actuator door</li> <li>• Misaligned seals to the auxiliary air temperature actuator door</li> </ul> <p>Did you find and correct the condition?</p>	--	Go to <a href="#">Step 30</a>	Go to <a href="#">Testing for Intermittent Conditions and Poor Connections</a> in Wiring Systems
10	<ol style="list-style-type: none"> <li>1. Select OFF on the front auxiliary HVAC control assembly.</li> <li>2. Adjust the front auxiliary air temperature switch.</li> </ol> <p>Does the auxiliary air temperature actuator drive shaft rotate at all?</p>	--	Go to <a href="#">Step 11</a>	Go to <a href="#">Step 16</a>
11	<p>Test the rear auxiliary temperature door control circuit of the rear auxiliary HVAC control assembly for an open, high resistance, a short to ground or short to voltage. Refer to <a href="#">Circuit Testing</a> and <a href="#">Wiring Repairs</a> in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to <a href="#">Step 30</a>	Go to <a href="#">Step 12</a>
12	<p><b>Important::</b> The rear auxiliary HVAC control assembly connector must be connected to correctly perform test.</p> <ol style="list-style-type: none"> <li>1. Turn ON the ignition, with the engine OFF.</li> <li>2. Measure the voltage from the rear auxiliary temperature door control circuit</li> </ol>	0-12 V		

	<p>of the rear auxiliary HVAC control assembly to a good ground.</p> <p>3. Adjust the rear auxiliary air temperature switch.</p> <p>Does the voltage change and measure within the specified range?</p>		Go to <a href="#">Step 25</a>	Go to <a href="#">Step 23</a>
13	<p>Test the ignition 3 voltage circuit of the front auxiliary HVAC control assembly for an open or a high resistance. Refer to <a href="#">Circuit Testing</a> and <a href="#">Wiring Repairs</a> in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to <a href="#">Step 30</a>	Go to <a href="#">Step 14</a>
14	<p>Test the air temperature door position signal circuit of the front auxiliary HVAC control assembly for an open, high resistance, a short to ground or short to voltage. Refer to <a href="#">Circuit Testing</a> and <a href="#">Wiring Repairs</a> in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to <a href="#">Step 30</a>	Go to <a href="#">Step 15</a>
15	<p><b>Important::</b> The front auxiliary HVAC control assembly connector must be connected to correctly perform test.</p> <p>1. Turn ON the ignition, with the engine OFF.</p> <p>2. Measure the voltage from the air temperature door position signal circuit of the front auxiliary HVAC control assembly to a good ground.</p> <p>3. Adjust the front auxiliary air temperature switch.</p> <p>Does the voltage change and measure within the specified range?</p>	0-12 V	Go to <a href="#">Step 25</a>	Go to <a href="#">Step 24</a>
16	<p>Test the ignition 3 voltage circuit of the auxiliary HVAC processor for an open or a high resistance. Refer to <a href="#">Circuit Testing</a> and <a href="#">Wiring Repairs</a> in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to <a href="#">Step 30</a>	Go to <a href="#">Step 17</a>
17	<p>Test the ignition 3 voltage circuit of the auxiliary air temperature actuator for an open or a high resistance. Refer to <a href="#">Circuit Testing</a> and <a href="#">Wiring Repairs</a> in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to <a href="#">Step 30</a>	Go to <a href="#">Step 18</a>
18	<p>Test the ground circuit of the auxiliary air temperature actuator for an open. Refer to <a href="#">Circuit Testing</a> and <a href="#">Wiring Repairs</a> in Wiring Systems.</p>	--	Go to	

	Did you find and correct the condition?		<a href="#">Step 30</a>	Go to <a href="#">Step 19</a>
19	Test the auxiliary temperature door control circuit of the auxiliary air temperature actuator for an open, high resistance, a short to ground or short to voltage. Refer to <a href="#">Circuit Testing</a> and <a href="#">Wiring Repairs</a> in Wiring Systems.  Did you find and correct the condition?	--	Go to <a href="#">Step 30</a>	Go to <a href="#">Step 20</a>
20	<b>Important::</b> The auxiliary HVAC processor, front and rear auxiliary HVAC control assembly connectors must be connected to correctly perform test.  <ol style="list-style-type: none"> <li>1. Turn ON the ignition, with the engine OFF.</li> <li>2. Select REAR CNTL on the front auxiliary HVAC control assembly.</li> <li>3. Measure the voltage from the auxiliary temperature door control circuit of the auxiliary air temperature actuator to a good ground.</li> <li>4. Adjust the rear auxiliary air temperature switch.</li> </ol> Does the voltage change and measure within the specified range?	0-12 V	Go to <a href="#">Step 21</a>	Go to <a href="#">Step 25</a>
21	Inspect for poor connections at the harness connector of the auxiliary air temperature actuator. Refer to <a href="#">Testing for Intermittent Conditions and Poor Connections</a> and <a href="#">Connector Repairs</a> in Wiring Systems.  Did you find and correct the condition?	--	Go to <a href="#">Step 30</a>	Go to <a href="#">Step 22</a>
22	Inspect the auxiliary air temperature actuator, door and any attaching linkage for binding or a condition that prevents drive shaft rotation.  Did you find and correct the condition?	--	Go to <a href="#">Step 30</a>	Go to <a href="#">Step 26</a>
23	Inspect for poor connections at the harness connector of the rear auxiliary HVAC control assembly. Refer to <a href="#">Testing for Intermittent Conditions and Poor Connections</a> and <a href="#">Connector Repairs</a> in Wiring Systems.  Did you find and correct the condition?	--	Go to <a href="#">Step 30</a>	Go to <a href="#">Step 27</a>
24	Inspect for poor connections at the harness connector of the front auxiliary HVAC control assembly. Refer to <a href="#">Testing for Intermittent Conditions and Poor Connections</a> and <a href="#">Connector Repairs</a> in Wiring Systems.  Did you find and correct the condition?	--	Go to <a href="#">Step 30</a>	Go to <a href="#">Step 28</a>

25	<p>Inspect for poor connections at the harness connector of the auxiliary HVAC processor. Refer to <a href="#">Testing for Intermittent Conditions and Poor Connections</a> and <a href="#">Connector Repairs</a> in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to <a href="#">Step 30</a>	Go to <a href="#">Step 29</a>
26	<p><b>Important::</b> The recalibration of the auxiliary air temperature actuator is not required.</p> <p>Replace the auxiliary air temperature actuator. Refer to <a href="#">Air Temperature Actuator Replacement</a> .</p> <p>Did you complete the replacement?</p>	--	Go to <a href="#">Step 30</a>	--
27	<p><b>Important::</b> The recalibration of the rear auxiliary HVAC control assembly is not required.</p> <p>Replace the rear auxiliary HVAC control assembly. Refer to <a href="#">Auxiliary Heater and Air Conditioning Control Replacement - Rear</a> .</p> <p>Did you complete the replacement?</p>	--	Go to <a href="#">Step 30</a>	--
28	<p><b>Important::</b> The recalibration of the front auxiliary HVAC control assembly is not required.</p> <p>Replace the front auxiliary HVAC control assembly. Refer to <a href="#">Heater and Air Conditioning Control Replacement</a> .</p> <p>Did you complete the replacement?</p>	--	Go to <a href="#">Step 30</a>	--
29	<p><b>Important::</b> The recalibration of the auxiliary HVAC processor is not required.</p> <p>Replace the auxiliary HVAC processor. Refer to <a href="#">Auxiliary HVAC Control Processor Replacement</a> .</p> <p>Did you complete the replacement?</p>	--	Go to <a href="#">Step 30</a>	--
30	<p>Operate the system in order to verify the repair.</p> <p>Did you correct the condition?</p>	--	System OK	Go to <a href="#">Step 2</a>