

2002 GMC Truck K 1500 Yukon 4WD V8-5.3L VIN T

Vehicle > ALL Diagnostic Trouble Codes ( DTC ) > Testing and Inspection > U Code Charts > U1500

## HVAC SYSTEM DIAGNOSIS

### **CIRCUIT DESCRIPTION**

The HVAC control module communicates with the rear HVAC control module through the driver HVAC control assembly signal and driver HVAC control assembly clock signal circuits. This communication link is only used by the HVAC control module and the rear HVAC control module to exchange HVAC data.

### **CONDITIONS FOR RUNNING THE DTC**

The ignition is turned ON.

### **CONDITIONS FOR SETTING THE DTC**

There is a loss of communications between the HVAC control module and the rear HVAC control module.

### **ACTION TAKEN WHEN THE DTC SETS**

The rear HVAC control module will lose all automatic control. The rear blower motor can be controlled manually by the blower switch on the rear HVAC control module.

### **CONDITIONS FOR CLEARING THE DTC**

- The DTC will become history if the HVAC control module no longer detects a failure.
- The history DTC will clear after 50 fault free ignition cycles.
- The DTC can be cleared with a scan tool.

### **TEST**

Steps 1-8

**DTC U1500**

Step	Action	Yes	No
<b>Schematic Reference:</b> HVAC Schematics (Blower Controls - Primary) or HVAC Schematics (Compressor Controls - All Models) or HVAC Schematics (Air Delivery Controls - Primary) or HVAC Schematics (Blower Controls - Auxiliary) or HVAC Schematics (Air Delivery Controls - Auxiliary)			
1	Did you perform the HVAC Diagnostic System Check?	Go to Step 2	Go to Diagnostic System Check - HVAC Systems - Automatic
2	Test the driver HVAC control assembly signal for a short to voltage or an open. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Diagrams. Did you find and correct the condition?	Go to Step 8	Go to Step 3
3	Test the driver HVAC control assembly clock signal for a short to voltage or an open. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Diagrams. Did you find and correct the condition?	Go to Step 8	Go to Step 4
4	Test the ignition 3 voltage circuit of the rear HVAC control module for an open at the rear HVAC control module. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Diagrams. Did you find and correct the condition?	Go to Step 8	Go to Step 5
5	Test the 5 volt reference circuit of the rear HVAC control module for a short to ground at the rear HVAC control module. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Diagrams. Did you find and correct the condition?	Go to Step 8	Go to Step 6
6	Inspect for poor connections at the harness connector of the HVAC control module and rear HVAC control module. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Diagrams. Did you find and correct the condition?	Go to Step 8	Go to Step 7
7	<b>Important:</b> Perform the recalibration procedure for the HVAC control module. Replace the rear HVAC control module. Did you complete the replacement?	Go to Step 8	—
8	1. Use the scan tool in order to clear the DTCs. 2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text. Does the DTC reset?	Go to Step 2	System OK