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2002 Chevrolet Chevy Suburban - 2WD | Avalanche, Escalade, Suburban, Tahoe, Yukon (VIN C/K) Service Manual | Document ID: 660699

DTC B3102

Circuit Description

The remote control door lock receiver (RCDLR) communicates with the body control module (BCM) through the keyless entry serial data circuit. When any button on the keyless entry transmitter is pressed, the transmitter sends a signal to the RCDLR. The RCDLR sends either a lock or unlock request to the BCM, depending on which button is pressed on the transmitter. The BCM receives the message and performs the appropriate function.

Conditions for Running the DTC

The system voltage must be between 9.0 and 16.0 volts.

Conditions for Setting the DTC

The keyless entry serial data circuit is shorted to ground for 500 milliseconds.

Action Taken When the DTC Sets

The keyless entry system does not operate.

Conditions for Clearing the DTC

- The current DTC will clear on after the short to ground is corrected.
- · A history DTC will clear after 100 consecutive ignition cycles without a fault present.
- A scan tool may be used in order to clear history and current DTC(s).

Test Description

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

- 2. The normal state of the input displayed on the scan tool before pressing a transmitter button is NONF.
- 3. When the UNLOCK button is pressed on the transmitter, Actv Unlock Fob# will be displayed on the scan tool.
- 4. The normal state of the input displayed on the scan tool before pressing a transmitter button is NONF.
- 5. Tests the signal circuit for a short to ground.

Step	Action	Yes	No		
Schematic Reference: <u>Keyless Entry Schematics</u>					
Did	you perform the Remote Keyless Entry © 2014 General Motors Corporat	on. All rights reserved.	Go to <u>Diagnostic</u>		

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1	Diagnostic System Check?		System Check - Remote Keyless
		Go to Step 2	<u>Entry</u>
2	 Install a scan tool. Turn ON the ignition, with the engine OFF. With the scan tool, observe the RFA Message Since Wake-up parameter. 		
	Does the scan tool display NONE?	Go to Step 3	Go to Step 4
3	 Activate the UNLOCK button on the keyless entry transmitter. With the scan tool, observe the RFA Message Since Wake-up parameter. Does the RFA Message Since Wake-up parameter change state?	Go to Testing for Intermittent Conditions and Poor Connections in Wiring Systems	Go to Step 4
4	 Turn OFF the ignition. Disconnect the remote control door lock receiver (RCDLR). Turn ON the ignition, with the engine OFF. With a scan tool, observe the RFA Message Since Wake-up parameter. 		
	Does the scan tool display NONE?	Go to Step 7	Go to Step 5
<u>5</u>	Test the keyless entry serial data circuit for a short to ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems.		
	Did you find and correct the condition?	Go to Step 10	Go to Step 6
6	Inspect for poor connections at the harness connector of the body control module (BCM). Refer to Testing for Intermittent Conditions and Poor Connections and Connector Repairs in Wiring Systems. Did you find and correct the condition?	Go to <u>Step 10</u>	Go to <u>Step 8</u>
7	Inspect for poor connections at the harness connector of the RCDLR. Refer to Testing for Intermittent Conditions and Poor Connections and Connector Repairs in Wiring Systems. Did you find and correct the condition?	Go to <u>Step 10</u>	Go to Step 9
8	Important: Perform the BCM programming procedure when replacing the BCM. Replace the BCM. Refer to Body Control Module Replacement in Body Control System. Did you complete the replacement?	Go to <u>Step 10</u>	

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	Replace the Remote Control Door Lock Receiver. Refer to Remote Control Door Lock Receiver Replacement .		
	Did you complete the replacement?	Go to Step 10	
10	 Use a scan tool in order to clear the DTCs. 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