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Document ID# 757407
2003 Chevrolet Chevy Suburban - 4WD

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DTC C0550

Circuit Description

When the ignition switch is turned ON, the rear wheel steering control module monitors communications between its internal microprocessors and performs self-diagnostic tests. If an internal malfunction is detected, the rear wheel steering control module will store a DTC C0550 in its memory.

Conditions for Running the DTC

Turn the ignition switch to the ON position, with engine ON.

Conditions for Setting the DTC

- The rear wheel steering control module detected an internal malfunction.
- The malfunction must be detected when the ignition switch is first turned ON.

Action Taken When the DTC Sets

- The Service 4-Wheel Steer indicator in IPC will be displayed.
- The code is displayed on scan the tool as DTC C0550.
- The output command to the motor is zeroed. The motor drive circuits are disabled using commands from the rear wheel steering control module to open the power relay.
- The rear wheels will be returned to the default centered position.

Conditions for Clearing the DTC

- Conditions for the DTC are not currently present.
- The module receives a clear code command from the scan tool.
- The DTC clears after 100 malfunction free ignition cycles.

Diagnostic Aids

- Any additional codes displayed with DTC C0550 should be diagnosed and repaired first.
- The rear wheel steering control module tests for multiple internal malfunctions and will store a DTC C0550 if one or more internal malfunctions are detected. Therefore, depending on which malfunction was detected, and what internal circuitry was affected, this DTC may cause various symptoms.
- Any condition resulting in the sensor supply voltage being pulled high or low could result in an erroneous DTC C0550.
- A fault in the battery positive voltage circuit from the 125A MEGA fuse can result in an erroneous DTC C0550.

Step	Action	Values	Yes	No

Schematic Reference: [Rear Wheel Steering Schematics](#)

Connector End View Reference: [Rear Wheel Steering Connector End Views](#)

1	Did you perform the Diagnostic System Check-Rear Wheel Steering?	--	Go to Step 2	Go to Diagnostic System Check - Rear Wheel Steering
2	<ol style="list-style-type: none"> 1. Install a scan tool. 2. Turn the ignition ON, with the engine OFF. 3. With the scan tool, monitor the DTC information of the Rear Wheel Steering Control module. <p>Are there any additional codes displayed along with the DTC C0550?</p>	--	Go to Diagnostic Trouble Code (DTC) List	Go to Step 3
3	<p>With the scan tool, monitor the DTC information of the Rear Wheel Steering Control module.</p> <p>Does the information indicate that the DTC C0550 is current?</p>	--	Go to Step 4	Go to Diagnostic Aids
4	<p>With the scan tool, observe the sensor supply voltage in the rear wheel steering data.</p> <p>Is the voltage above the specified value?</p>	5.0 V	Go to Step 7	Go to Step 5
5	<p>With the scan tool, observe the sensor supply voltage in the rear wheel steering data.</p> <p>Is the voltage below the specified value?</p>	0.25 V	Go to Step 8	Go to Step 6
6	<p>Test for an open or short to ground in the battery voltage supply circuit of the 125 A MEGA fuse. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to Step 11	Go to Step 9
7	<p>Test the 5-volt reference circuit for a short to battery voltage. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to Step 11	Go to Step 9
8	<p>Test the 5-volt reference circuit for a short to ground. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to Step 11	Go to Step 9
	Inspect for poor connections at the rear wheel steering control module. Refer to Testing for Intermittent and Poor Connections and Connector			

9	<p>Repairs in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to Step 11	Go to Step 10
10	<p>Important</p> <p>Perform the learn alignment procedure. Refer to Measuring Wheel Alignment in Wheel Alignment.</p> <p>Replace the rear wheel steering control module. Refer to Rear Wheel Steering Control Module Replacement in Rear Wheel Steering.</p> <p>Did you complete the replacement?</p>	--	Go to Step 11	--
11	<ol style="list-style-type: none"> 1. Use the scan tool to clear DTCs. 2. Operate the vehicle within the conditions for running the DTC as specified in the supporting text. <p>Does the DTC reset?</p>	--	Go to Step 2	System OK

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