

## DTC C0533

### Circuit Description

The rear wheel steering control module controls a normally closed relay that shorts the motor phase leads. The relay is part of the rear wheel steering gear motor and is not serviceable.

### Conditions for Running the DTC

- The ignition is ON.
- The rear wheel steering control module is in START-UP/INITIALIZATION.

### Conditions for Setting the DTC

- The DTC is set when the shorting relay is stuck open, commanded vs. actual.
- The DTC is set when the shorting relay is stuck closed, commanded vs. actual.

### Action Taken When the DTC Sets

- The Service 4 Wheel Steer indicator in IPC will be displayed.
- The code is displayed on the scan tool as DTC C0533.
- The output comm and to the motor is zeroed. The motor drive circuits are disabled using commands to open the power relay, and to close the motor shorting relay.
- The rear wheels will be returned to the default centered position.

### Conditions for Clearing the DTC

- The conditions for setting the DTC are not currently present.
- The rear wheel steering control module receives a clear code comm and from the scan tool.
- The DTC clears after 100 malfunction free ignition cycles.

### DTC C0533 Diagnosis

Step	Action	Yes	No
1	Did you perform the Diagnostic System Check–Rear Wheel Steering?	Go to Step 2	Go to Diagnostic System Check - Rear Wheel Steering
2	Inspect for poor connections at the rear wheel steering control module and the rear wheel steering motor connector. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and correct the condition?	Go to Step 5	Go to Step 3
3	Replace the rear wheel steering motor. Refer to <i>Steering Gear Motor Assembly Replacement</i> . Did you find and correct the condition?	Go to Step 5	Go to Step 4
4	<b>Important:</b> Perform the Learn Alignment procedure. Refer to <i>Measuring Wheel Alignment (With Rear Wheel Steering)</i> or <i>Measuring Wheel Alignment (Without Rear Wheel Steering)</i> in Wheel Alignment. Replace the rear wheel steering module. Refer to <i>Rear Wheel Steering Control Module Replacement</i> . Did you complete the replacement?	Go to Step 5	—
5	1. Use the scan tool in order to clear the DTCs. 2. Operate the vehicle within normal operating conditions. Does the DTC reset?	Go to Step 2	System OK