

ATTENTION: Refer to the appropriate shop manual for your vehicle to obtain specific service procedures for this part. If you do not have a service manual or lack the skill to install this part, it is recommended that you seek the services of a qualified technician. Pay special attention to all cautions and warnings included in the shop manual. Read and follow all instructions carefully.

2002–01 Silverado/Sierra 1500/2500/3500 Pickup

DTC-C0308:

Description:

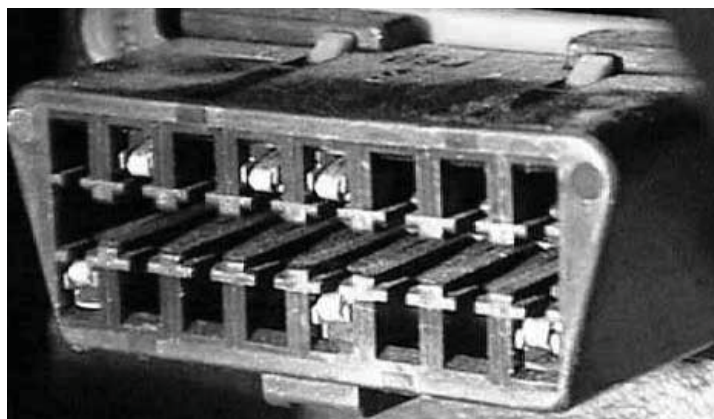
DTC-C0308 will be set when the Transfer Case Control Module (TCCM) determines a short-to-ground in motor control circuit A or B.

What causes DTC-C0308:

DTC-C0308 will set when the Transfer Case Control Module detects a variation in supply voltage going to both the Motor Control Circuit A or B. DTC-C0308 will also activate if the feedback voltage is excessively low on Motor Control Circuits A or B. Once DTC-C0308 has been activated, all of the 4WD shifter will be inoperative and will cause the "SERVICE 4WD" light to turn on.

How to access the diagnostic trouble code (DTC):

Once there has been a DTC set, the vehicle will either set a "Service 4WD" light, or the lights on the 4x4 switch will flash and/or stay lit. To access the DTCs, you will need to hook up a vehicle diagnostic scanner utilizing the service port under the driver side portion of the dash.



Disclaimer:

Even though every attempt is made to ensure this information is complete and accurate, it is impossible to account for all possible circumstances or situations. Please consult with a qualified auto technician before attempting to perform any work you are not qualified to do. Automobiles can be hazardous to work on; be sure to take all necessary safety precautions. Failure to do so may result in property damage or personal injury. Certain motor vehicle standards and performance requirements may apply to your motor vehicle (such as Federal Motor Vehicle Safety Standards by the National Highway Traffic Safety Administration). Be sure that your work is performed in accordance with such standards and that you do not disable any motor vehicle safety feature.

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When to clear a DTC:

The diagnostic trouble code (DTC) should only be erased once the voltage concern has been corrected, or the mechanical problem has been addressed.

How to clear a DTC:

1. The Transfer Case Control Module (TCCM) will clear the DTC once the initial problem has been fixed.
2. A hard DTC will clear once the vehicle has run through one hundred (100) start cycles and detects no faults.
3. To clear the DTC manually, you will need a vehicle diagnostic scanner (Scan tool). Once the DTC has been erased, go back into the vehicle system and verify that the DTC has been erased and that the system is performing properly.

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DIAGNOSTIC TROUBLE CODES: TRANSFER CASE MOTOR

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DTC-C0310:

Description:

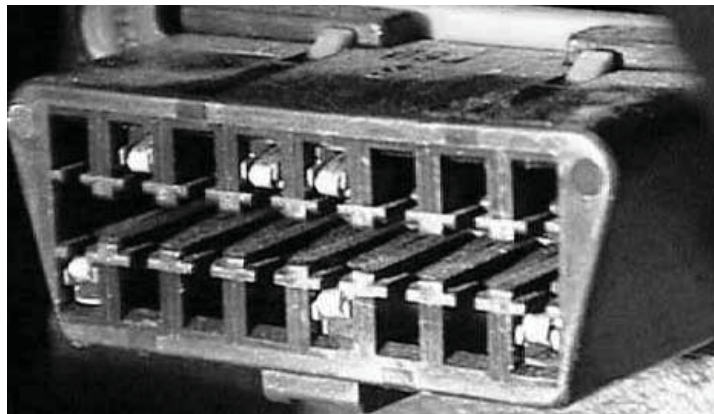
DTC-C0310 will be set when the Transfer Case Control Module (TCCM) determines an open circuit in motor control A or B, or an open motor circuit.

What causes DTC-C0310:

DTC-C0310 will set when the Transfer Case Control Module detects a variation in voltage going to both the Motor Control Circuit A or B. When the module is calling for a low voltage value and there is a high voltage return, DTC-C0310 will be activated, turning on the "Service 4WD" light and disabling the shifting feature of the transfer case motor.

How to access the diagnostic trouble code (DTC):

Once there has been a DTC set, the vehicle will either set a "Service 4WD" light, or the lights on the 4x4 switch will flash and/or stay lit. To access the DTCs, you will need to hook up a vehicle diagnostic scanner utilizing the service port under the driver side portion of the dash.



When to clear a DTC:

The diagnostic trouble code (DTC) should only be erased once the voltage concern has been corrected, or the mechanical problem has been addressed.

How to clear a DTC:

1. The Transfer Case Control Module (TCCM) will clear the DTC once the initial problem has been fixed.
2. A hard DTC will clear once the vehicle has run through one hundred (100) start cycles and detects no faults.
3. To clear the DTC manually, you will need a vehicle diagnostic scanner (Scan tool). Once the DTC has been erased, go back into the vehicle system and verify that the DTC has been erased and that the system is performing properly.

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DTC-C0327:

Description:

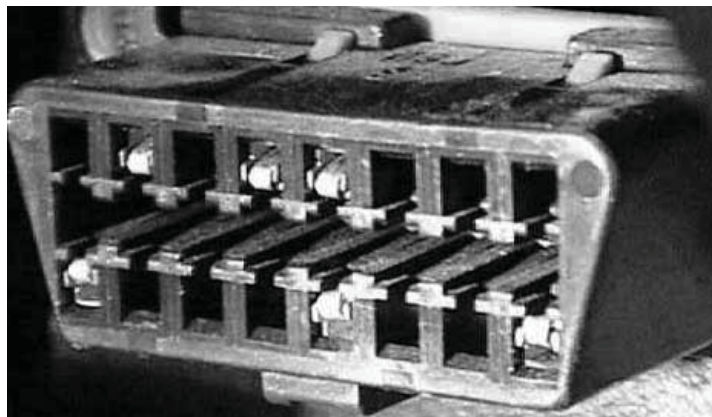
DTC-C0327 will be set when the Transfer Case Control Module (TCCM) receives both high and low voltage on the encoder channel circuits.

What causes DTC-C0310:

DTC-C0310 will set when the Transfer Case Control Module (TCCM) detects a variation in voltage from an encoder circuit. The encoder circuit is telling the TCCM what position (gear) the Transfer case is in. If the Transfer case is in a predetermined position (gear) and returns the incorrect value (voltage), the TCCM will set DTC-C0327. A faulty transfer case shift shaft can cause DTC-C0327. Be sure to check the lateral and vertical movement of the transfer case shift shaft.

How to access the diagnostic trouble code (DTC):

Once there has been a DTC set, the vehicle will either set a "Service 4WD" light, or the lights on the 4x4 switch will flash and/or stay lit. To access the DTCs, you will need to hook up a vehicle diagnostic scanner utilizing the service port under the driver side portion of the dash.



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How to clear a DTC:

1. The Transfer Case Control Module (TCCM) will clear the DTC once the initial problem has been fixed.
2. A hard DTC will clear once the vehicle has run through one hundred (100) start cycles and detects no faults.
3. To clear the DTC manually, you will need a vehicle diagnostic scanner (Scan tool). Once the DTC has been erased, go back into the vehicle system and verify that the DTC has been erased and that the system is performing properly.

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