



# DIAGNOSTIC TROUBLE CODES: TRANSFER CASE MOTOR

**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.

**2007–03 Silverado 1500/Sierra 1500/Tahoe/Yukon/Yukon XL 1500,  
2007–03 Silverado 2500/Sierra 2500 Yukon XL, 2007–03 Avalanche**

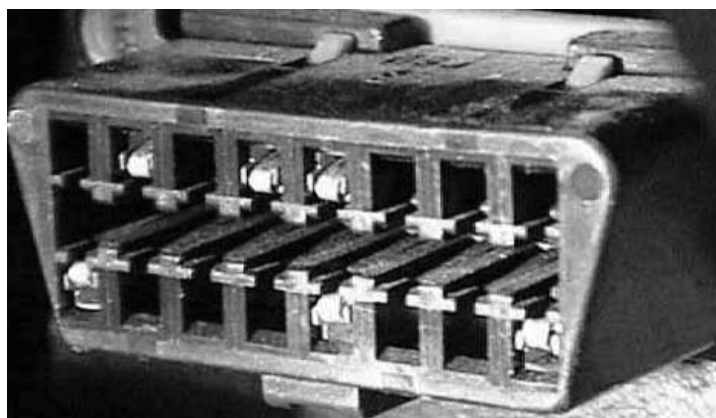
## **DTC-C0306: Motor A or B Circuit Failure**

### **Description:**

**Diagnostic Trouble Code C0306** is set once the Transfer Case Control Module detects an open, short-to-ground, or low voltage in the Motor Control A or B circuit, or an open or short-to-ground fault inside 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 soon” 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 positive voltage concern has been corrected.

### **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.

Disclaimer:

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## **DTC-C0321: Motor A or B Circuit Failure**

### **Description:**

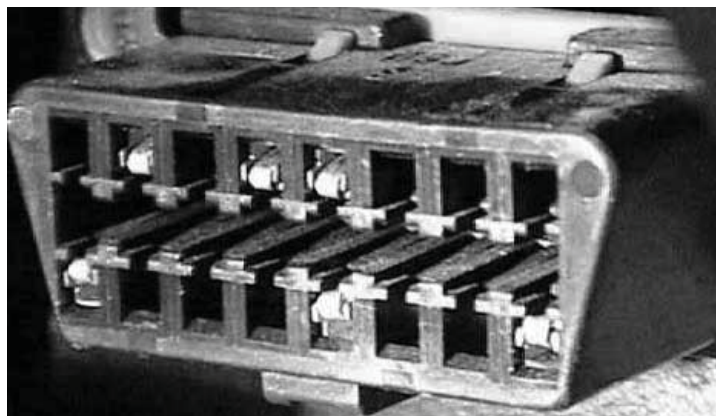
DTC-C0321 will be set when the Transfer Case Control Module (TCCM) finds a fault in an open lock solenoid, open motor lock control, or an open motor feed. This will cause the 4WD to be disabled and will turn on the "Service 4WD" trouble light.

### **What causes DTC-C0321:**

1. The transfer case motor lock feature detects the improper voltage.
2. The Transfer Case Control Module (TCCM) detects no voltage going to the Transfer Case Motor (TCM) lock feature.

### **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.

### **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: Motor A or B Circuit Failure**

### **Description:**

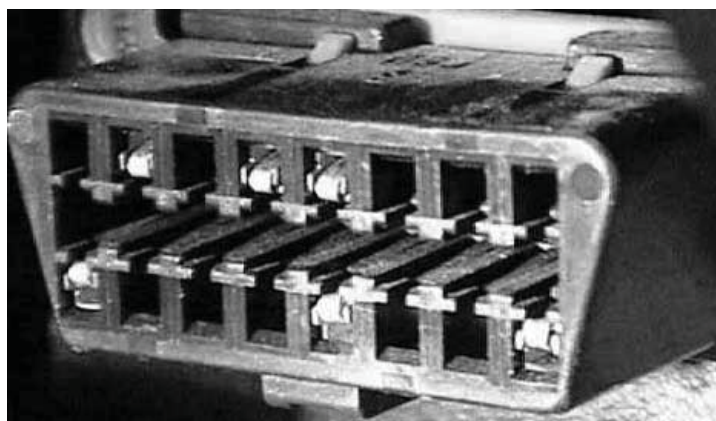
DTC-C0327 will be set when the Transfer Case Control Module (TCCM) finds an electrical fault in the Transfer Case Encoder Circuit.

### **What causes DTC-C0327:**

DTC-C0327 will set when the Transfer Case Control Module detects a variation in the specified voltage for the Transfer Case Encoder circuit. Another possible cause for DTC-C0327 could be a mechanical concern within the Transfer Case Shift assembly. The Transfer Case encoder detects the position of the shift shaft assembly on the Transfer Case. Over time, the shift shaft assembly could develop lateral or vertical movement and cause the Transfer Case Encoder to detect a false reading, setting a trouble code.

### **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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### 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-C0374: General 4WD Failure**

### **Description:**

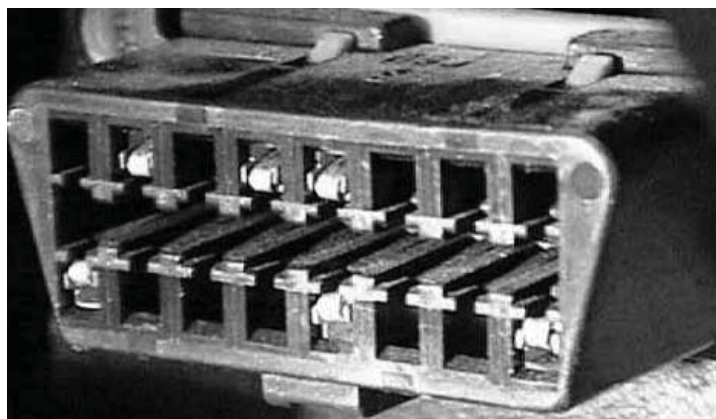
DTC-C0374 will be set when the Transfer Case Control Module (TCCM) detects rear wheel slippage. Once the TCCM attempts to apply torque to the front wheels and cannot, DTC-C0374 will be set. When DTC-C0374 is activated, you will not be able to use your AUTO 4WD. The "SERVICE 4WD" light will remain on until you re-start your vehicle.

### **What causes DTC-C0374:**

DTC-C0374 will set when the Transfer Case Control Module detects a variation in the front drive shaft and rear drive shaft speed sensor and is not able to engage the front differential after ten (10) unsuccessful attempts.

### **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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### When to clear a DTC:

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### How to clear a DTC:

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