

# **2006 Cadillac STS-V: Service Bulletin: #07-07-30-031D: Malfunction Indicator Lamp (MIL) On - Check Engine Light, DTC P0751**

## **#07-07-30-031D: Malfunction Indicator Lamp (MIL) On - Check Engine Light, DTC P0751 (Diagnose and Repair as Necessary) - (Feb 20, 2009)**

**Subject:** Malfunction Indicator  
Lamp (MIL) On —  
Check Engine Light,  
DTC P0751 (Diagnose  
and Repair as Necessary)

**Models:** 2007–2008 Chevrolet  
Silverado  
2007–2008 GMC Sierra  
with 6L90 (RPO MYD)  
Automatic Transmission  
2006 Cadillac STS-V,  
XLR-V  
2007–2008 Cadillac  
Escalade, Escalade ESV,  
Escalade EXT, SRX,  
STS, STS-V, XLR, XLR-  
V  
2008 Cadillac CTS  
2006–2008 Chevrolet  
Corvette  
2008 Chevrolet Suburban  
2007–2008 GMC Sierra  
Denali, Yukon Denali,

Yukon Denali XL  
2008 GMC Yukon XL  
2008 HUMMER H2  
with 6L50 (RPO MYB),  
6L80 (RPO MYC) or  
6L90 (RPO MYD)  
Automatic Transmission

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This bulletin is being revised to provide additional information on the new spacer plate. Please discard Corporate Bulletin Number 07-07-30-031C (Section 07 — Transmission/Transaxle).

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## **Condition**

Some customers may comment on a malfunction indicator lamp (MIL) being illuminated.

A scan tool may reveal DTC P0751 set in the TCM as current or in history.

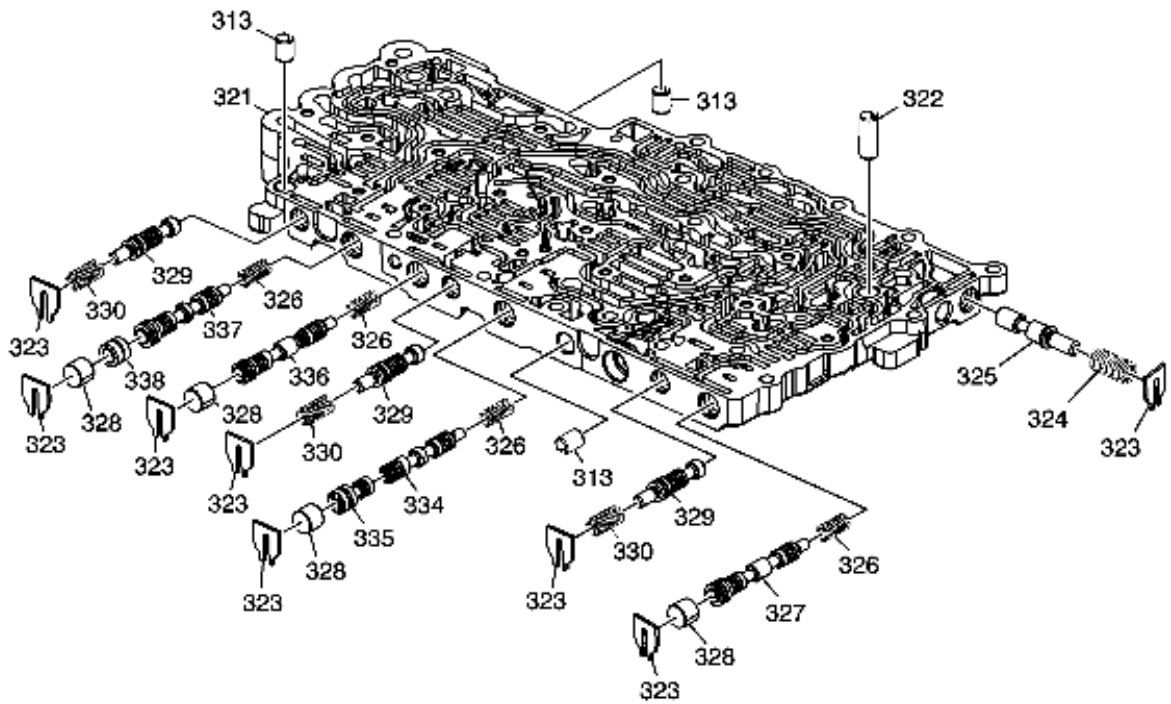
## **Correction**

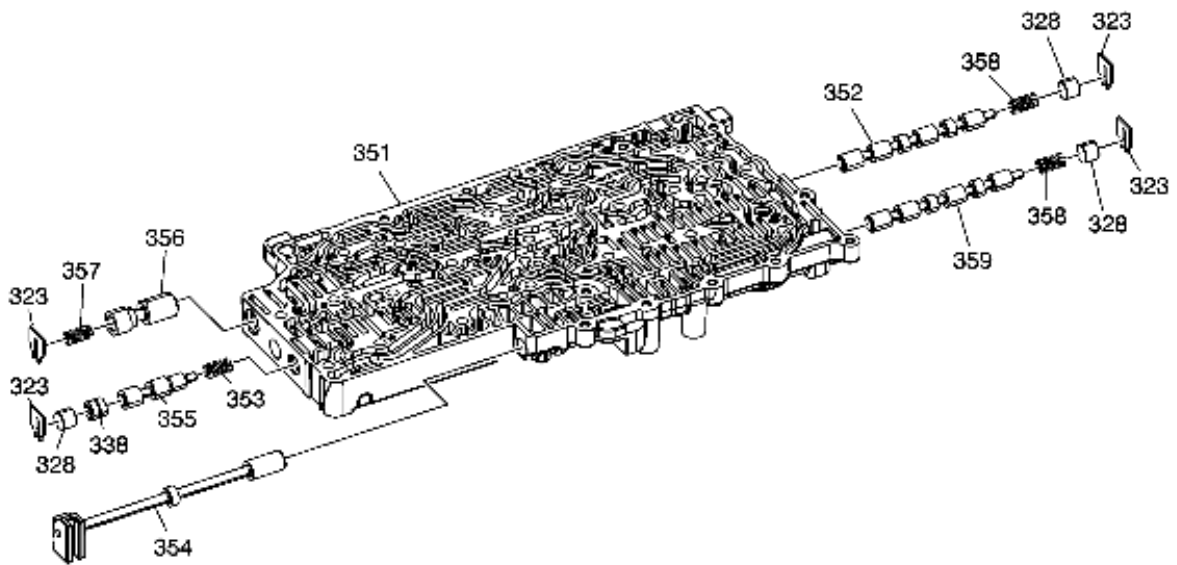
Follow the service instructions below based on the group your vehicle is in.

### **2007 Silverado or Sierra with 6L90 Transmission (MYD)**

1. Inspect and note the transmission fluid level and condition. If the level is high or low, it should be corrected and the vehicle road tested to verify that the condition is still present.

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- This diagram shows an exploded view of a mechanical assembly. The main component is a large, rectangular base plate with numerous internal features and mounting points. Various smaller components are shown in their relative positions around the base plate, with lines indicating their assembly paths. The components are labeled with reference numerals:
- 313**: A small cylindrical component, shown in two locations at the top of the assembly.
  - 321**: A component located on the left side of the base plate.
  - 322**: A component located on the right side of the base plate.
  - 323**: A small, hook-like component, shown in multiple locations along the bottom and sides.
  - 324**: A component located on the right side, near the bottom.
  - 325**: A component located on the right side, near the bottom.
  - 326**: A component located in the center and bottom of the assembly.
  - 327**: A component located at the bottom center.
  - 328**: A component located in the center and bottom of the assembly.
  - 329**: A component located in the center and bottom of the assembly.
  - 330**: A component located in the center and bottom of the assembly.
  - 331**: A component located in the center of the assembly.
  - 332**: A component located in the center of the assembly.
  - 333**: A component located in the center of the assembly.
  - 334**: A component located in the center of the assembly.
  - 335**: A component located in the center of the assembly.
  - 336**: A component located in the center of the assembly.
  - 337**: A component located in the center of the assembly.
  - 338**: A component located in the center of the assembly.





1. Disassemble the valve body to:

- Inspect transmission filter for any cracks, holes or split seams that may allow air to be sucked into the pump.
- Inspect the check balls for roundness ensuring that there are no flat spots.
- Measure all the valve body bore plugs (328) for diameter. The specification is 11.502 mm +/- 0.004 mm. Undersize bore plugs should be replaced.
- Inspect clutch select valve 2 (352) (Closest to the manual valve) in the lower valve body (351) for freedom of movement and travel.
- Inspect CBR1/ C456 Reg Valve (327) in the upper valve body (321) for freedom of movement and travel.
- Perform Control Solenoid Valve and Transmission Control Module Assembly Solenoid Performance Test (SI Document ID #1618572) to determine if shift solenoid #1 is functioning properly.

**Important:** The seals included in plate kit, P/N 24236934, should be replaced when the valve body is assembled. Do not reuse the old seals.

- Replace the spacer plate with P/N 24245720. This spacer plate makes use of a revised gasket to help reduce the occurrence of DTC P0751.

**Important:** 2008 Silverado or Sierra equipped with 6L90 (MYD) are built with this TCM calibration revision.

1. Reprogram the transmission control module (TCM) with updated calibration files using the TIS2WEB Service Programming System (SPS) application. This new service calibration was released with TIS satellite data update version 7.5 or later, available July 22, 2007. As always, make sure your Tech 2® is updated with the latest software version.
2. After reprogramming the TCM, Service Fast Learn Adapts must be performed using the Tech2®. Check and clear all DTCs that may have set as a result of the programming process.

**2006–2008 Vehicles with a 6L50, 6L80 or 6L90 Transmission (MYB, MYC or MYD) (Except 2007 Silverado and Sierra w/6L90)**

1. Inspect and note the transmission fluid level and condition. If the level is high or low, it should be corrected and the vehicle road tested to verify that the condition is still present.
2. Remove the transmission bottom pan to inspect for possible debris.
  - If debris is found, the transmission should be disassembled to

determine the source. Repair or replace the transmission in the most economical method following guidelines in Corporate Bulletin #02-07-30-029.

- If no debris is noted in the oil pan, remove the control valve body assembly and proceed to the next step.
- Disassemble the valve body to:
  - Inspect transmission filter for any cracks, holes or split seams that may allow air to be sucked into the pump.
  - Inspect the check balls for roundness ensuring that there are no flat spots.
  - Measure all the valve body bore plugs (328) for diameter. The specification is 11.502 mm +/- 0.004 mm. Undersize bore plugs should be replaced.
  - Inspect clutch select valve 2 (352) (Closest to the manual valve) in the lower valve body (351) for freedom of movement and travel.
  - Inspect CBR1/ C456 Reg Valve (327) in the upper valve body (321) for freedom of movement and travel.
  - Perform Control Solenoid Valve and Transmission Control Module Assembly Solenoid Performance Test (SI Document ID# 1618572) to determine if shift solenoid #1 is functioning properly.

**Important:** The seals included in plate kit, P/N 24236934 or 24238925, should be replaced when the valve body is assembled. Do not reuse the old seals.

- Replace the spacer plate with the appropriate part number from the list below. This spacer plate makes use of a revised gasket to help reduce the occurrence of DTC P0751. *This spacer plate is used in vehicles built November 17, 2007 or later. It will not resolve a DTC P0751 concern on a vehicle built November 17,*

*2007 or later.*

## Parts Information

Part Number	Description
24245720	Plate, Control Valve Spacer
(2007–08 MYD) (2008 MYB, MYC)	
24246916	Plate, Control Valve Spacer
(2006–2007 MYC)	
24246917	Plate, Control Valve Spacer
(2007 MYB)	
24236934	Plate Kit, Control Solenoid Valve Filter
(MYC, MYD)	
24238925	Plate Kit, Control Solenoid Valve Filter
(MYB)	

Online URL:

<https://www.cadillacvnet.com/knowledge-base/article/2006-cadillac-sts-v-service-bulletin-07-07-30-031d-malfunction-indicator-lamp-mil-on-check-engine-light-dtc-p0751-11.html>