Transmission Control Modules

Application Coverage Programming / Installation DTC Code Definitions Solenoid Function Troubleshooting Diagnostics

GM, FORD, NISSAN TCM& TEHCM SERVICE GUIDE











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TCM & TEHCM SERVICE GUIDE

Application Coverage, Internal Unit GM

Dorman SKU #	Year Range and Transmission Fitment	Application Notes
609-000	07/09 Saturn Outlook 6T75, 07/09 Saturn Aura 6T70, 07/09 Pontiac G6 6T70, 07/09 GMC Acadia 6T75, 08/10 Saturn Vue 6T70, 08/09 Pontiac Torrent 6T70, 08/09 Chevy Malibu 6T70, 08/09 Chevy Equinox 6T70, 08/09 Buick Enclave 6T75, 09 Chevy Traverse 6T75	See: Dormanproducts.com to confirm fit
609-001	10/11 GMC Terrain 6T45, 10/11 Chevy Equinox 6T45, 11 Chevy Malibu 6T40, 11/12	Sell until depleted:
	Chevy Cruze 6T40, 11/12 Buick Regal 6T45, 11/12 Buick Lacrosse 6T40, 12 Chevy Sonic 6T30, 12 Chevy Captiva 6T50	See: Dormanproducts.com for
		updated Sku 609-016/609-017/609-018/609- 019
609-002	(10/11 GMC 1500, Yukon, XL, Chevrolet 1500,Tahoe, Suburban, Escalade, ESV, EXT, Corvette 6L80)	See: Dormanproducts.com to confirm fit
	(10/11 GMC Savana, Chevy Express 6L90) 11/13 Chevy Caprice 6L80, 11 Cadillac STS 6L50, CTS 6L45,6L80,6L90, 10/11 Camaro see DormanProducts.com to confirm fit	
609-003	Cadillac 08/10, Chevrolet 07/13, GMC 07/13, Hummer 08/09, Pontiac 08/09 (6L80, 6L90)	See: GM broadcasting codes and OE # identification in service
	Confirm OE number and Broadcast codes prior to ordering	packet
609-004	06/07 Chevy Corvette, 06/07 Cadillac XLR,STS, 07 Cadillac SRX, Escalade, Escalade ESV, EXT	See: Dormanproducts.com to confirm fit
	(6 speed automatic)	
609-005	12/13 GMC Terrain 6T45, 12/13 Chevy Sonic 6T40, 12/13 Malibu 6T40, 12/13 Equinox 6T45, 12/13 Cruze 6T40, 12/13 Captiva 6T45, 12/13 Buick Verano 6speed, 12/13 Regal 6speed, 15/16 Regal 6speed 12/13 Lacrosse 6T40, 13 Encore 6speed,	See: Dormanproducts.com to confirm fit
609-006	Cadillac 12/15, Chevrolet 11/20, GMC 11/20 Isuzu 12/16 (6L80, 6L90)	See: GM broadcasting codes and
	Confirm OE number and Broadcast codes prior to ordering	OE # identification in service packet
609-007	08-10 Chevy Malibu/09 Saturn Aura/09-10 Pontiac G6 (6T40)	See: Dormanproducts.com to confirm fit
609-008	10 Saturn Outlook 6T75, 10/12 GMC Terrain 6T70, 10/12 GMC Acadia 6T75, 10/12 Chevy Traverse 6T75, 10/12 Chevy Malibu 6T70, 10/12 Chevy Equinox 6T70, 10/12 Cadillac SRX 6T70, 10/13 Buick Lacrosse 6T70, 10/12 Buick Enclave 6T75, 12/13 Chevy Impala 6T70, 14/16 Chevy "Limited 6T70	See: Dormanproducts.com to confirm fit
609-009	Buick Enclave 2013, Cadillac SRX 2013, Cadillac XTS 2013, Chevrolet Traverse 2013, GMC Acadia 2013	See: Dormanproducts.com to confirm fit
609-015	Buick 14/17, Chevrolet 14/18, GMC 14/17 6T30/6T40 Contact Dorman Products to confirm fitment	See: Dormanproducts.com to confirm fit

Applicatio	on Coverage, External Unit GM	
Dorman SKU #	Year Range and Transmission Fitment	Application Notes
609-200	External Module Chevrolet 06/08, GMC 06/08 Allison 1000	See: Dormanproducts.com to confirm fitment
609-201	External Module Chevrolet 09/15, GMC 09/15 Allison 1000	See: Dormanproducts.com to confirm fitment
599-120	External Module General Motors 05/13, Isuzu 06/08 4 speed	See: Dormanproducts.com to confirm fitment

GM BROADCAST CODE/OE IDENTIFICATION:

OE NUMBER LOCATION ON THE FOLLOWING DORMAN TRANSMISSION CONTROL MODULES:





GM 6L80: TECH TIPS

609-002/609-003/609-006

CONCERNS BEFORE / AFTER REBUILD

In some instances, a vehicle may exhibit delayed engagement, or even a harsh thud or clunk into reverse. If the trans has not been serviced prior to this condition, the issue could lie in the crankshaft. We recommend checking endplay to be in factory spec, (.0015"/.0086")

Findings have shown, that after a rebuild you may see the 2,6 clutch engage harshly, fail to down shift from 3rd to 2nd or even overheat, which can lead to burnt and failed clutches. There are a few areas to place close attention on to avoid these potential concerns:

- 1. The 2,6 clutch plate could have been installed backwards, be sure to visually check that the inside fingers face the piston.
- 2. Also, the 2,6 clutch bushing can walk out of the clutch housing if not sealed in place with loc-tite.
- 3. Be sure to preload the stator clockwise prior to final torqueing of the pump. Also please pay special attention to the orifice that will snap into the housing. Failure to fully attach this orifice will result in over temperature concerns and clutch damage.

Tech Tip: If the vehicle application has reached normal operating temperature after a rebuild, and still having delayed engagement concerns in either Forward, Reverse or even both, the case could be warped. It is unfortunately common and GM has recognized this concern and come up with updated slide and rotor kits based off of your clearance. The measurement should never exceed past .002" across the rotor or .0015" across the slide.

GM 6L80: Shift Solenoid Control Function

Selection GM Gen-1 6L80 Control Valve command Function	Shift control solenoid (1) command status	Shift control solenoid (2) command status	Clutch Pressure control (5) 1 / 2 / 3 / 4-Clutch	Clutch Pressure control (4) 2/6-Clutch	Clutch Pressure Control (2) 3/5-Reverse Clutch	Clutch Pressure Control (3) 4/5/6-Low Reverse Clutch	TCC Pressure Control Solenoid Conv Clutch	Line Pressure control solenoid function	Applied Gear Ratio
PARK	ON	ON	OFF	OFF	ON	OFF	OFF	ON	NA
REVERSE	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	3.06
NEUTRAL	ON	ON	OFF	OFF	ON	OFF	OFF	ON	NA
Applied 1st	ON	ON	ON	OFF	ON	ON	OFF	ON	4.03 Direct
Applied 2nd	OFF	ON	ON	ON	ON	ON	ON	ON	2.36 Direct
Applied 3rd	OFF	ON	ON	OFF	OFF	ON	ON	ON	1.53 Direct
Applied 4th	OFF	ON	ON	OFF	ON	OFF	ON	ON	1.15 Direct
Applied 5th	OFF	ON	OFF	OFF	OFF	OFF	ON	ON	.85 OD
Applied 6th	OFF	ON	OFF	ON	ON	OFF	ON	ON	.67 OD



Code	Reference	Co
P0218	Trans Fluid Temp exceeds 270 degrees	P
P0562	Voltage in system found to be low < 11v	P
P0563	Voltage in system found to be high >18v	P
P0601	Read only Memory found in TCM	P
P0602	Not Programmed Trans module	P
P0603	memory reset long term	P
P0604	Random access Memory	P
P0634	Over temperature TCM	P
P0667	Temperature Sensor Perf. TCM	P
P0668	Temperature Sensor circuit low Voltage	P
P0669	Temperature Sensor circuit high Voltage	P
P0703	Circuit brake pedal switch invalid signal	P
P0711	Trans Fluid Temp sensor Performance	P
P0712	Trans Fluid Temp sensor low Voltage	P
P0713	Trans Fluid Temp sensor high Voltage	P
P0716	Trans input speed sensor performance	P
P0717	Trans input speed sensor low Voltage	P
P0719	Circuit brake pedal switch Voltage low	P
P0722	Trans output speed sensor low Voltage	P
P0723	Trans output speed sensor intermittent	P
P0724	Circuit brake pedal switch high Voltage	P
P0729	6th Gear incorrect Ratio	PI
P0731	1st Gear incorrect Ratio	PI
P0732	2nd Gear incorrect Ratio	PI
P0733	3rd Gear incorrect Ratio	PI
P0734	4th Gear incorrect Ratio	PI
P0735	5th Gear incorrect Ratio	PI
P0736	Reverse Gear incorrect Ratio	PI
P0741	TCC clutch system stuck off	P
P0742	TCC clutch system stuck on	Pź
P0751	Shift Solenoid (1) valve stuck off	P2
P0752	Shift Solenoid (1) valve stuck on	Pź
P0776	Solenoid (2) CPC stuck off	Pź
P0777	Solenoid (2) CPC stuck on	P2
P0796	Solenoid (3) CPC stuck off	P2
P0797	Solenoid (3) CPC stuck on	P2
P0815	switch circuit on upshift error	Pź
P0816	switch circuit on downshift error	P2
P0826	switch circuit up/downshift error	P2
P0842	Trans fluid pressure switch (1) low Voltage	P2
P0843	Trans fluid pressure switch (1) high Voltage	P2
P0851	Park-neutral switch low Voltage	P2
P0852	Park-neutral switch high Voltage	Pź

GM 6L8	0: Diagnostic Trouble Codes
Code	Reference
P0872	Trans fluid pressure switch (3) low Voltage
P0873	Trans fluid pressure switch (3) high Voltage
P0877	Trans fluid pressure switch (4) low Voltage
P0878	Trans fluid pressure switch (4) high Voltage
P0961	system perf. Line pressure control solenoid
P0962	Line pressure control solenoid low Voltage
P0963	Line pressure control solenoid high Voltage
P0965	Solenoid (2) CPC system Perf.
P0966	Solenoid (2) CPC low Voltage
P0967	Solenoid (2) CPC high Voltage
P0969	Solenoid (3) CPC system Perf.
P0970	Solenoid (3) CPC low Voltage
P0971	Solenoid (3) CPC High Voltage
P0973	Shift solenoid (1) low Voltage
P0974	Shift solenoid (1) high Voltage
P0976	Shift solenoid (2) low Voltage
P0977	Shift solenoid (2) high Voltage
P0989	Trans fluid pressure switch (5) low Voltage
P0990	Trans fluid pressure switch (5) high Voltage
P1621	Long-Term Memory Perf.
P1684	Temp sensor Performance while power up
P1685	Temp sensor Perf. While power up low Voltage
P1686	Temp sensor Perf. While power up high Voltage
P1751	Valve 1 shift Perf. Select Valve 2
P1825	Invalid Range found mode switch
P1831	Driver 2# controls function of line pressure
P1832	Driver 2# controls function of line pressure
P1876	Up/down shift switch out of range Drive 3
P1915	mode switch starting in incorrect range
P2534	Ignition starter switch low Voltage
P2714	Solenoid (4) CPC stuck Off
P2715	Solenoid (4) CPC stuck On
P2719	Solenoid (4) CPC Perf
P2720	Solenoid (4) CPC low Voltage
P2721	Solenoid (4) CPC hight Voltage
P2723	Solenoid (5) CPC stuck Off
P2724	Solenoid (5) CPC stuck On
P2728	Solenoid (5) CPC Perf.
P2729	Solenoid (5) CPC low Voltage
P2730	Solenoid (5) CPC high Voltage
P2762	Torque convertor Clutch Solenoid Perf.
P2763	Torque convertor Clutch Solenoid high Voltage
P2764	Torque convertor Clutch Solenoid low Voltage
1 2/04	Torque convertor oluten solenolu low voltage

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GM 6T30, 40, 45, 50: TECH TIPS

609-001/609-005/609-007/609-015

CONCERNS BEFORE / AFTER REBUILD

In some cases a P2723 will occur with a loss of the Output speed sensor. This is typically caused by the wire lead being pinched between the channel case. Be sure to route the signal wire as intended.

TCC slip, or not being applied condition, a P0741 may also be present. It is good practice to vacuum test the stator and clutch assembly. Typically your reading with a vacuum gauge should be no less then 15" @ the stator bushing. If necessary you can use a high temp sealer on the stator bushing during installation.

1,2,3,4 clutch not applying, also may set additional Trouble codes for solenoid engagement and slipping. This can be caused in the field during a rebuild by installing the snap ring on the 1,2,3,4 unit backwards. The indented side of the snap ring should always face up while being seated into the drum.

It is also important to note that Gen 1 vs Gen 2 Vs Gen 3 Transmission components such as clutch housings are not interchangeable. Not only are fluid passages different, but so are the inner and outer sealing surfaces. This can of course cause pressure control issues and failure. Be sure to use correct Gen specific components during installation.

Also, the front seal for the front fluid pump it self is different between these 3 units. The Gen1 seal will measure out @ .30" thick, where as the Gen2 .33" thick, and the Gen 3 .42" thick.

GM 6T30, 6T40, 6T45, 6T50: Shift Solenoid Control Function						
Selection GM GEN-1 6T30-6T40 6T45-6T50 Control Valve Command Function	Shift Control Solenoid Command Status ON-OFF	Clutch Pressure Control (5) 1/2/3/4-Clutch	Clutch Pressure Control (4) 2/6-Clutch	Clutch Pressure Control (2) 3/5-Reverse Clutch	Clutch Pressure Control (3) 4/5/6-Low Reverse	Applied Gear Ratio
PARK	ON	OFF	OFF	ON	OFF	NA
REVERSE	ON	OFF	OFF	OFF	OFF	2.94 Direct
NEUTRAL	ON	OFF	OFF	ON	OFF	NA
1st Auto Stop (if equipped)	OFF	ON	OFF	ON	OFF	4.58 Direct
Applied 1st	OFF	ON	OFF	ON	ON	4.58 Direct
Applied 2nd	OFF	ON	ON	ON	ON	2.96 Direct
Applied 3rd	OFF	ON	OFF	OFF	ON	1.91 Direct
Applied 4th	OFF	ON	OFF	ON	OFF	1.44 Direct
Applied 5th	OFF	OFF	OFF	OFF	OFF	1.00 Direct
Applied 6th	OFF	OFF	ON	ON	OFF	.74 OD

GM 6T30, 40, 45, 50:

CodeReferenceP057BPedal Position sensor brake PerfP057CPedal Position sensor brake low VoltageP057DPedal Position sensor brake high VoltageP0601Read only Memory Perf.P0603Memory Reset (Long Term)P0604Random access memory Perf.P062FMemory Perf (Long Term)P0634Over Temperature TCMP0658Control circuit (1) low VoltageP0659Control circuit (1) high VoltageP0667Temperature sensor Perf.P0668Temp. sensor low VoltageP0668Temp. sensor low VoltageP0668Power up Temp sensor Perf. low VoltageP0640Power up Temp sensor Perf. low VoltageP0641Trans Fluid temp sensor Perf. low VoltageP0711Trans Fluid temp sensor Perf.P0712Trans Fluid temp sensor low VoltageP0714Input speed sensor no signal presentP0715Input speed sensor no signal presentP0716Input speed sensor no signal presentP0717Output speed sensor low VoltageP0718Output speed sensor low VoltageP0719System Torque convertor clutch solenoid stuck offP0719System Torque convertor clutch solenoid stuck offP0719Solenoid (2) CPC stuck offP0719Solenoid (2) CPC stuck offP0719Solenoid (2) CPC stuck offP0719Solenoid (2) CPC stuck onP0719Solenoid (2) CPC stuck onP0719Solenoid (2) CPC stuck onP0719Solenoid (2) CPC stuc	Diagnos	tic Trouble Codes
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P0601Read only Memory Perf.P0603Memory Reset (Long Term)P0604Random access memory Perf.P062FMemory Perf (Long Term)P0634Over Temperature TCMP0658Control circuit (1) low VoltageP0659Control circuit (1) high VoltageP0667Temperature sensor Perf.P0668Temp. sensor low VoltageP0669Temp. sensor high VoltageP0669Temp. sensor high VoltageP0668Power up Temp sensor Perf.P0668Power up Temp sensor Perf. low VoltageP0640Power up Temp sensor Perf. Ney NoltageP0641Trans Fluid temp sensor Perf.P0712Trans Fluid temp sensor Perf.P0713Trans Fluid temp sensor Ney NoltageP0714Input speed sensor no signal presentP0715Input speed sensor no signal presentP0726Output speed sensor no voltageP0727Output speed sensor no voltageP0718System Torque convertor clutch solenoid stuck offP0741System Torque convertor clutch solenoid stuck offP0752Shift Solenoid (1) Perf. stuck offP0754Solenoid (2) CPC stuck offP0755Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck offP07974Switch circuit error while up shift <tr< td=""><td>P057C</td><td>Pedal Position sensor brake low Voltage</td></tr<>	P057C	Pedal Position sensor brake low Voltage
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P0658Control circuit (1) low VoltageP0659Control circuit (1) high VoltageP0667Temperature sensor Perf.P0668Temp. sensor low VoltageP0669Temp. sensor low VoltageP0660Power up Temp sensor Perf.P06ACPower up Temp sensor Perf. low VoltageP06AEPower up Temp sensor Perf. high voltageP06AEPower up Temp sensor Perf. high voltageP0711Trans Fluid temp sensor Perf.P0712Trans Fluid temp sensor low VoltageP0713Trans Fluid temp sensor high VoltageP0714Input speed sensor no signal presentP0715Input speed sensor no signal presentP0722Output speed sensor no signal presentP0723Output speed sensor no voltageP0770Input speed sensor low VoltageP0771System Torque convertor clutch solenoid stuck offP0752Shift Solenoid (1) Perf. stuck offP0754Solenoid (2) CPC stuck offP0775Solenoid (2) CPC stuck offP0776Solenoid (3) CPC stuck offP0777Solenoid (3) CPC stuck offP0785Switch circuit error while down shiftP0816Switch circuit error while down shiftP0826Switch circuit error up shift/down shiftP0826Switch circuit error up shift/down shiftP0843Trans fluid pressure switch (1) high VoltageP0843Trans fluid pressure switch (1) high Voltage	P062F	Memory Perf (Long Term)
P0659Control circuit (1) high VoltageP0667Temperature sensor Perf.P0668Temp. sensor low VoltageP0669Temp. sensor low VoltageP0640Power up Temp sensor Perf.P06A1Power up Temp sensor Perf. low VoltageP06A2Power up Temp sensor Perf. high voltageP06A2Power up Temp sensor Perf. high voltageP0711Trans Fluid temp sensor Perf.P0712Trans Fluid temp sensor Nevf. high voltageP0713Trans Fluid temp sensor high VoltageP0714Input speed sensor Perf.P0715Input speed sensor No signal presentP0716Input speed sensor no signal presentP0722Output speed sensor no signal presentP0723Output speed sensor no voltageP0774System Torque convertor clutch solenoid stuck offP0742System Torque convertor clutch solenoid stuck offP0752Shift Solenoid (1) Perf. stuck offP0774Solenoid (2) CPC stuck offP0775Solenoid (3) CPC stuck offP0776Solenoid (3) CPC stuck offP0777Solenoid (3) CPC stuck offP0785Switch circuit error while up shiftP0842Trans fluid pressure switch (1) high VoltageP0843Trans fluid pressure switch (1) high VoltageP0843Trans fluid pressure switch (1) high Voltage	P0634	Over Temperature TCM
P0667Temperature sensor Perf.P0668Temp. sensor low VoltageP0669Temp. sensor high VoltageP06ACPower up Temp sensor Perf.P06ADPower up Temp sensor Perf. low VoltageP06AEPower up Temp sensor Perf. high voltageP0711Trans Fluid temp sensor Perf.P0712Trans Fluid temp sensor high VoltageP0713Trans Fluid temp sensor high VoltageP0714Input speed sensor Perf.P0715Input speed sensor no signal presentP0716Input speed sensor no voltageP0722Output speed sensor no voltageP0723Output speed sensor no voltageP0744System Torque convertor clutch solenoid stuck offP0752Shift Solenoid (1) Perf. stuck offP0754Solenoid (2) CPC stuck offP0755Solenoid (3) CPC stuck offP0757Solenoid (3) CPC stuck offP0758Switch circuit error while up shiftP0843Trans fluid pressure switch (1) high Voltage	P0658	Control circuit (1) low Voltage
P0668Temp. sensor low VoltageP0669Temp. sensor high VoltageP06ACPower up Temp sensor Perf.P06ADPower up Temp sensor Perf. low VoltageP06AEPower up Temp sensor Perf. high voltageP0711Trans Fluid temp sensor Perf.P0712Trans Fluid temp sensor low VoltageP0713Trans Fluid temp sensor Perf.P0714Input speed sensor Perf.P0715Input speed sensor no signal presentP0716Input speed sensor no signal presentP0727Output speed sensor no signal presentP0728Output speed sensor no signal presentP0729Output speed sensor no signal presentP0721Output speed sensor no signal presentP0722Output speed sensor no signal presentP0723Output speed sensor no voltageP0770output speed sensor no voltageP0771System Torque convertor clutch solenoid stuck offP0751Shift Solenoid (1) Perf. stuck offP0752Shift Solenoid (1) Perf. stuck offP0776Solenoid (2) CPC stuck offP0777Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck offP0816Swi	P0659	Control circuit (1) high Voltage
PO669Temp. sensor high VoltagePO6ACPower up Temp sensor Perf.PO6ADPower up Temp sensor Perf. low VoltagePO6AEPower up Temp sensor Perf. high voltagePO711Trans Fluid temp sensor Perf.PO712Trans Fluid temp sensor low VoltagePO713Trans Fluid temp sensor high VoltagePO714Input speed sensor no signal presentPO715Input speed sensor no signal presentPO726Input speed sensor no signal presentPO727Output speed sensor no signal presentPO728Output speed sensor no signal presentPO729Output speed sensor no voltagePO770Output speed sensor no voltagePO771Output speed sensor no voltagePO772Output speed sensor no voltagePO773System Torque convertor clutch solenoid stuck offPO751Shift Solenoid (1) Perf. stuck offPO774Solenoid (2) CPC stuck offPO775Solenoid (3) CPC stuck offPO797Solenoid (3) CPC stuck offPO816Switch circuit error while down shiftPO826Swit	P0667	Temperature sensor Perf.
POGACPower up Temp sensor Perf.POGADPower up Temp sensor Perf. Iow VoltagePOGAEPower up Temp sensor Perf. ligh voltagePO711Trans Fluid temp sensor Perf.PO712Trans Fluid temp sensor low VoltagePO713Trans Fluid temp sensor high VoltagePO714Input speed sensor Perf.PO715Input speed sensor no signal presentPO785Input speed sensor low VoltagePO720Input speed sensor no signal presentPO721Output speed sensor no signal presentPO722Output speed sensor no signal presentPO723Output speed sensor no voltagePO774System Torque convertor clutch solenoid stuck offPO751Shift Solenoid (1) Perf. stuck offPO772Solenoid (2) CPC stuck offPO773Solenoid (3) CPC stuck onPO794Switch circuit error while up shiftPO815Switch circuit error up shift/down shiftPO826Switch circuit error up shift/down shiftPO843Trans fluid pressure switch (1) high VoltagePO843PNP switch circuit concern	P0668	Temp. sensor low Voltage
POGADPower up Temp sensor Perf. Iow VoltagePOGAEPower up Temp sensor Perf. high voltagePO711Trans Fluid temp sensor Perf.PO712Trans Fluid temp sensor low VoltagePO713Trans Fluid temp sensor high VoltagePO714Input speed sensor Perf.PO715Input speed sensor no signal presentPO78FInput speed sensor no signal presentPO720Input speed sensor no signal presentPO721Output speed sensor no signal presentPO722Output speed sensor no signal presentPO723Output speed sensor no voltagePO77COutput speed sensor low VoltagePO77Doutput speed sensor low VoltagePO741System Torque convertor clutch solenoid stuck offPO752Shift Solenoid (1) Perf. stuck offPO754Solenoid (2) CPC stuck offPO7755Solenoid (3) CPC stuck offPO777Solenoid (3) CPC stuck onPO797Solenoid (3) CPC stuck onPO797Solenoid (3) CPC stuck onPO797Solenoid (3) CPC stuck onPO815Switch circuit error while up shiftPO826Switch circuit error up shift/down shiftPO842Trans fluid pressure switch (1) low VoltagePO843Trans fluid pressure switch (1) high VoltagePO850PNP switch circuit concern	P0669	Temp. sensor high Voltage
POGAEPower up Temp sensor Perf. high voltageP0711Trans Fluid temp sensor Perf.P0712Trans Fluid temp sensor low VoltageP0713Trans Fluid temp sensor high VoltageP0714Input speed sensor Perf.P0715Input speed sensor no signal presentP0716Input speed sensor low VoltageP0717Input speed sensor low VoltageP0720Input speed sensor no signal presentP0721Output speed sensor no signal presentP0722Output speed sensor no voltageP0723Output speed sensor low VoltageP077COutput speed sensor low VoltageP077Doutput speed sensor low VoltageP0741System Torque convertor clutch solenoid stuck offP0752Shift Solenoid (1) Perf. stuck offP0754Solenoid (2) CPC stuck offP0775Solenoid (3) CPC stuck onP0796Solenoid (3) CPC stuck onP0797Solenoid (3) CPC stuck onP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0843Trans fluid pressure switch (1) high VoltageP0850PNP switch circuit concern	P06AC	Power up Temp sensor Perf.
PO711Trans Fluid temp sensor Perf.PO712Trans Fluid temp sensor low VoltagePO713Trans Fluid temp sensor high VoltagePO714Input speed sensor Perf.PO715Input speed sensor no signal presentPO716Input speed sensor low VoltagePO717Input speed sensor low VoltagePO708Input speed sensor low VoltagePO720Input speed sensor no signal presentPO721Output speed sensor no signal presentPO722Output speed sensor no signal presentPO723Output speed sensor low VoltagePO770Output speed sensor low VoltagePO771Output speed sensor low VoltagePO772Output speed sensor low VoltagePO774System Torque convertor clutch solenoid stuck offPO751Shift Solenoid (1) Perf. stuck offPO752Shift Solenoid (2) CPC stuck offPO775Solenoid (2) CPC stuck offPO777Solenoid (3) CPC stuck offPO797Solenoid (3) CPC stuck offPO816Switch circuit error while up shiftPO826Switch circuit error up shift/down shiftPO842Trans fluid pressure switch (1) low VoltagePO850PNP switch circuit concern	P06AD	Power up Temp sensor Perf. low Voltage
P0712Trans Fluid temp sensor low VoltageP0713Trans Fluid temp sensor high VoltageP0716Input speed sensor Perf.P0717Input speed sensor no signal presentP078FInput speed sensor low VoltageP0720Input speed sensor no signal presentP0721Output speed sensor no signal presentP0722Output speed sensor no signal presentP0723Output speed sensor no voltageP0770Output speed sensor low VoltageP0771Output speed sensor low VoltageP0772Output speed sensor low VoltageP0773System Torque convertor clutch solenoid stuck offP0742System Torque convertor clutch solenoid stuck onP0751Shift Solenoid (1) Perf. stuck offP0775Solenoid (2) CPC stuck offP0776Solenoid (2) CPC stuck offP0797Solenoid (3) CPC stuck onP0796Switch circuit error while up shiftP0816Switch circuit error up shift/down shiftP0826Switch circuit error up shift/down shiftP0843Trans fluid pressure switch (1) high VoltageP0850PNP switch circuit concern	P06AE	Power up Temp sensor Perf. high voltage
P0713Trans Fluid temp sensor high VoltageP0716Input speed sensor Perf.P0717Input speed sensor no signal presentP078FInput speed sensor low VoltageP0700Input speed sensor high VoltageP0722Output speed sensor no signal presentP0723Output speed sensor intermittentP077COutput speed sensor low VoltageP077Doutput speed sensor low VoltageP0771Output speed sensor low VoltageP0772Output speed sensor low VoltageP0774System Torque convertor clutch solenoid stuck offP0751Shift Solenoid (1) Perf. stuck offP0776Solenoid (2) CPC stuck offP0777Solenoid (2) CPC stuck offP0777Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0850PNP switch circuit concern	P0711	Trans Fluid temp sensor Perf.
P0716Input speed sensor Perf.P0717Input speed sensor no signal presentP07BFInput speed sensor low VoltageP07C0Input speed sensor low VoltageP0722Output speed sensor no signal presentP0723Output speed sensor intermittentP077COutput speed sensor low VoltageP077DOutput speed sensor low VoltageP077DOutput speed sensor low VoltageP077DOutput speed sensor low VoltageP0771System Torque convertor clutch solenoid stuck offP0741System Torque convertor clutch solenoid stuck onP0751Shift Solenoid (1) Perf. stuck offP0776Solenoid (2) CPC stuck offP0777Solenoid (2) CPC stuck offP0796Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0850PNP switch circuit concern	P0712	Trans Fluid temp sensor low Voltage
P0717Input speed sensor no signal presentP07BFInput speed sensor low VoltageP07C0Input speed sensor no signal presentP0722Output speed sensor no signal presentP0723Output speed sensor intermittentP0770Output speed sensor low VoltageP0771Output speed sensor low VoltageP0772Output speed sensor low VoltageP0774System Torque convertor clutch solenoid stuck offP0752Shift Solenoid (1) Perf. stuck offP0775Solenoid (2) CPC stuck offP0777Solenoid (2) CPC stuck offP0797Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) high VoltageP0850PNP switch circuit concern	P0713	Trans Fluid temp sensor high Voltage
P07BFInput speed sensor low VoltageP07C0Input speed sensor low VoltageP0722Output speed sensor no signal presentP0723Output speed sensor intermittentP0770Output speed sensor low VoltageP0771Output speed sensor low VoltageP0772Output speed sensor low VoltageP0774System Torque convertor clutch solenoid stuck offP0742System Torque convertor clutch solenoid stuck onP0751Shift Solenoid (1) Perf. stuck offP0776Solenoid (2) CPC stuck offP0777Solenoid (2) CPC stuck offP0796Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) high VoltageP0850PNP switch circuit concern	P0716	Input speed sensor Perf.
P07C0Input speed sensor high VoltageP0722Output speed sensor no signal presentP0723Output speed sensor intermittentP0770Output speed sensor low VoltageP0771output speed sensor high voltageP0772Output speed sensor high voltageP0774System Torque convertor clutch solenoid stuck offP0742System Torque convertor clutch solenoid stuck onP0751Shift Solenoid (1) Perf. stuck offP0775Solenoid (2) CPC stuck offP0776Solenoid (2) CPC stuck offP0797Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) high VoltageP0850PNP switch circuit concern	P0717	Input speed sensor no signal present
P0722Output speed sensor no signal presentP0723Output speed sensor intermittentP077COutput speed sensor low VoltageP077Doutput speed sensor high voltageP077Doutput speed sensor high voltageP0741System Torque convertor clutch solenoid stuck offP0742System Torque convertor clutch solenoid stuck onP0751Shift Solenoid (1) Perf. stuck offP0752Shift Solenoid (1) Perf. stuck onP0776Solenoid (2) CPC stuck offP0777Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) high VoltageP0850PNP switch circuit concern	P07BF	Input speed sensor low Voltage
P0723Output speed sensor intermittentP077COutput speed sensor low VoltageP077Doutput speed sensor high voltageP0741System Torque convertor clutch solenoid stuck offP0742System Torque convertor clutch solenoid stuck onP0751Shift Solenoid (1) Perf. stuck offP0752Shift Solenoid (1) Perf. stuck onP0776Solenoid (2) CPC stuck offP0777Solenoid (2) CPC stuck offP0798Solenoid (3) CPC stuck onP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) high VoltageP0850PNP switch circuit concern	P07C0	Input speed sensor high Voltage
P077COutput speed sensor low VoltageP077Doutput speed sensor high voltageP0741System Torque convertor clutch solenoid stuck offP0742System Torque convertor clutch solenoid stuck onP0743System Torque convertor clutch solenoid stuck onP0744System Torque convertor clutch solenoid stuck onP0751Shift Solenoid (1) Perf. stuck offP0752Shift Solenoid (1) Perf. stuck onP0776Solenoid (2) CPC stuck offP0777Solenoid (2) CPC stuck onP0796Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0816Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0850PNP switch circuit concern	P0722	Output speed sensor no signal present
P077Doutput speed sensor high voltageP0741System Torque convertor clutch solenoid stuck offP0742System Torque convertor clutch solenoid stuck onP0742System Torque convertor clutch solenoid stuck onP0751Shift Solenoid (1) Perf. stuck offP0752Shift Solenoid (1) Perf. stuck onP0776Solenoid (2) CPC stuck offP0777Solenoid (2) CPC stuck onP0796Solenoid (3) CPC stuck onP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0850PNP switch circuit concern	P0723	Output speed sensor intermittent
P0741System Torque convertor clutch solenoid stuck offP0742System Torque convertor clutch solenoid stuck onP0742System Torque convertor clutch solenoid stuck onP0751Shift Solenoid (1) Perf. stuck offP0752Shift Solenoid (1) Perf. stuck onP0776Solenoid (2) CPC stuck offP0777Solenoid (2) CPC stuck onP0796Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0816Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0850PNP switch circuit concern	P077C	Output speed sensor low Voltage
P0742System Torque convertor clutch solenoid stuck onP0751Shift Solenoid (1) Perf. stuck offP0752Shift Solenoid (1) Perf. stuck onP0754Solenoid (2) CPC stuck offP0775Solenoid (2) CPC stuck onP0776Solenoid (2) CPC stuck onP0796Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0816Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0850PNP switch circuit concern	P077D	output speed sensor high voltage
P0751Shift Solenoid (1) Perf. stuck offP0752Shift Solenoid (1) Perf. stuck onP0754Solenoid (2) CPC stuck offP0775Solenoid (2) CPC stuck onP0776Solenoid (2) CPC stuck onP0796Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0816Switch circuit error up shift/down shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0850PNP switch circuit concern	P0741	System Torque convertor clutch solenoid stuck off
P0752Shift Solenoid (1) Perf. stuck onP0776Solenoid (2) CPC stuck offP0777Solenoid (2) CPC stuck onP0796Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0816Switch circuit error while down shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0850PNP switch circuit concern	P0742	System Torque convertor clutch solenoid stuck on
P0776Solenoid (2) CPC stuck offP0777Solenoid (2) CPC stuck onP0796Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0816Switch circuit error while down shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0850PNP switch circuit concern	P0751	Shift Solenoid (1) Perf. stuck off
P0777Solenoid (2) CPC stuck onP0796Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0816Switch circuit error while down shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0850PNP switch circuit concern	P0752	Shift Solenoid (1) Perf. stuck on
P0796Solenoid (3) CPC stuck offP0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0816Switch circuit error while down shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0843Trans fluid pressure switch (1) high VoltageP0850PNP switch circuit concern	P0776	Solenoid (2) CPC stuck off
P0797Solenoid (3) CPC stuck onP0815Switch circuit error while up shiftP0816Switch circuit error while down shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0843Trans fluid pressure switch (1) high VoltageP0850PNP switch circuit concern	P0777	Solenoid (2) CPC stuck on
P0815Switch circuit error while up shiftP0816Switch circuit error while down shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0843Trans fluid pressure switch (1) high VoltageP0850PNP switch circuit concern	P0796	Solenoid (3) CPC stuck off
P0816Switch circuit error while down shiftP0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0843Trans fluid pressure switch (1) high VoltageP0850PNP switch circuit concern	P0797	Solenoid (3) CPC stuck on
P0826Switch circuit error up shift/down shiftP0842Trans fluid pressure switch (1) low VoltageP0843Trans fluid pressure switch (1) high VoltageP0850PNP switch circuit concern	P0815	Switch circuit error while up shift
P0842Trans fluid pressure switch (1) low VoltageP0843Trans fluid pressure switch (1) high VoltageP0850PNP switch circuit concern	P0816	Switch circuit error while down shift
P0843Trans fluid pressure switch (1) high VoltageP0850PNP switch circuit concern	P0826	Switch circuit error up shift/down shift
P0850 PNP switch circuit concern	P0842	Trans fluid pressure switch (1) low Voltage
	P0843	Trans fluid pressure switch (1) high Voltage
P0851 Cicuit low Voltage PNP switch	P0850	PNP switch circuit concern
	P0851	Cicuit low Voltage PNP switch

	30, 40, 45, 50: stic Trouble Codes
Code	Reference
P0852	circuit high Voltage PNP switch
P0872	Trans fluid pressure switch (3) low Voltage
P0873	Trans fluid pressure switch (3) high voltage
P0877	Trans fluid pressure switch (4) low Voltage
P0878	Trans fluid pressure switch 4 high Voltage
P0961	Line Pressure control solenoid Perf.
P0962	Line Pressure control solenoid low Voltage
P0963	Line Pressure control solenoid high Voltage
P0965	Solenoid (2) CPC Perf.
P0966	Solenoid (2) CPC low Voltage
P0967	Solenoid (2) CPC high Voltage
P0969	Solenoid (3) CPC Perf.
P0970	Solenoid (3) CPC low Voltage
P0971	Solenoid (3) CPC high Voltage
P0973	Shift solenoid (1) low Voltage
P0974	Shift solenoid (1) high Voltage
P0989	Trans fluid pressure switch (5) low Voltage
P0990	Trans fluid pressure switch (5) high Voltage
P1761	up/down shift counter signal incorrect
P182E	Mode switch range invalid
P1915	Mode switch not showing PRNDL during start
P1876	up/down shift low voltage enabled
P2714	Solenoid (4) CPC stuck off
P2715	Solenoid (4) CPC stuck on
P2719	Solenoid (4) CPC Perf.
P2720	Solenoid (4) CPC low Voltage
P2721	Solenoid (4) CPC high Voltage
P2723	Solenoid (5) CPC stuck off
P2724	Solenoid (5) CPC stuck on
P2728	Solenoid (5) CPC Perf.
P2729	Solenoid (5) CPC low Voltage
P2730	Solenoid (5) CPC high Voltage
P2762	Torque convertor Clutch Solenoid Perf
P2763	Torque convertor Clutch Solenoid high Voltage
P2764	Torque convertor Clutch Solenoid low Voltage

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GM 6T70/6T75: TECH TIPS

609-000/609-008/609-009

CONCERNS BEFORE / AFTER REBUILD

It is important to note, that Gen1, Gen2, and Gen3 components are once again not compatible. The TEHCM's to begin with are not interchangeable as the Gen2 unit has no provision for pressure switches. Also the main valve body uses different passage ways for shift control.

During a rebuild, be sure to use correct generation parts, as installing a 1,2,3,4 clutch piston from a different generation trans, can cause delayed engagement and harsh slipping concerns. These pistons are actually different heights. (.63" Gen1, .78" Gen2) This can sometimes be falsely accused to a TEHCM concern.

During installation on the New TECHM pay important attention to the length of the bolts used to secure the module. These bolts are different lengths for different positions. You will notice different sized lengths of bolts. 42mm & 55mm. If these bolts are switched during install, you will thread the longer bolt through the TEHCM case resulting in pressure codes, delayed engagement and poor performance.

In some cases, engine DTC such as a P0300 series code can cause transmission slip concerns. In most cases this can be routed back to a failing oil control valve on the cylinder head.

Tech Tip: It is important to discuss and realize that even though a vehicle is having transmission concerns and drivability issues, the transmission may not be at fault in some cases. It is very important to read and scan all modules of the vehicle. Be sure to have a full 12v charge and a battery charger on the vehicle during these procedures. It will only take a voltage drop of .2v to set a communication concerns as well as false readings.

GM 6T70, 6T75: Shift Solenoid Control Function

Selection GM GEN-1 6T70-6T75 Control Valve Command Function	Shift Control Solenoid (1) Command Status ON-OFF	Shift Control Solenoid (2) Command Status ON-OFF	Clutch Pressure Control (5) 1/2/3/4-Clutch	Clutch Pressure Control (4) 2/6-Clutch	Clutch Pressure Control (2) 3/5-Reverse Clutch	Clutch Pressure Control (3) 4/5/6-Low Re- verse Clutch	Applied Gear Ratio
PARK	ON	ON	OFF	OFF	OFF	ON	NA
REVERSE	ON	OFF	OFF	OFF	ON	ON	2.88 Direct
NEUTRAL	ON	ON	OFF	OFF	OFF	ON	NA
1st Auto Stop (if equipped)	ON	ON	ON	OFF	OFF	ON	4.48 Direct
Applied 1st	OFF	ON	ON	OFF	OFF	OFF	4.48 Direct
Applied 2nd	OFF	ON	ON	ON	OFF	OFF	2.87 Direct
Applied 3rd	OFF	ON	ON	OFF	ON	OFF	1.84 Direct
Applied 4th	OFF	ON	ON	OFF	OFF	ON	1.41 Direct
Applied 5th	OFF	ON	OFF	OFF	ON	ON	1.00 Direct
Applied 6th	OFF	ON	OFF	ON	OFF	ON	.74 OD

GM 6T70 / 6T75: Diagnostic Trouble Codes

stic Trouble Codes
Reference
Trans Fluid Temp exceeds 270 degrees
Voltage in system found to be low < 11v
Voltage in system found to be high >18v
Read only Memory found in TCM
Not Programmed Trans module
memory reset long term
Random access Memory
Over temperature TCM
Temperature Sensor Perf. TCM
Temperature Sensor circuit low Voltage
Temperature Sensor circuit high Voltage
Circuit brake pedal switch invalid signal
Trans Fluid Temp sensor Perf.
Trans Fluid Temp sensor low Voltage
Trans Fluid Temp sensor high Voltage
Trans input speed sensor performance
Trans input speed sensor low Voltage
Circuit brake pedal switch Voltage low
Trans output speed sensor low Voltage
Trans output speed sensor intermittent
Circuit brake pedal switch high Voltage
6th Gear incorrect Ratio
1st Gear incorrect Ratio
2nd Gear incorrect Ratio
3rd Gear incorrect Ratio
4th Gear incorrect Ratio
5th Gear incorrect Ratio
Reverse Gear incorrect Ratio
TCC clutch system stuck off
TCC clutch system stuck on
Shift Solenoid (1) valve stuck off
Shift Solenoid (1) valve stuck on
Shift Solenoid (1) valve stuck off
Solenoid (2) CPC stuck off
Solenoid (2) CPC stuck on
Solenoid (3) CPC stuck off
Solenoid (3) CPC stuck on
switch circuit on upshift error
switch circuit on downshift error
switch circuit up/downshift error
Trans fluid pressure switch (1) low Voltage
Trans fluid pressure switch (1) high Voltage
Park-neutral switch low Voltage

	′0 ∕ 6T75: tic Trouble Codes
Code	Reference
P0872	Trans fluid pressure switch (3) low Voltage
P0873	Trans fluid pressure switch (3) high Voltage
P0877	Trans fluid pressure switch (4) low Voltage
P0878	Trans fluid pressure switch (4) high Voltage
P0961	system perf. Line pressure control solenoid
P0962	Line pressure control solenoid low Voltage
P0963	Line pressure control solenoid high Voltage
P0965	Solenoid (2) CPC system Perf.
P0966	Solenoid (2) CPC low Voltage
P0967	Solenoid (2) CPC high Voltage
P0969	Solenoid (3) CPC system Perf.
P0970	Solenoid (3) CPC low Voltage
P0971	Solenoid (3) CPC High Voltage
P0973	Shift solenoid (1) low Voltage
P0974	Shift solenoid (1) high Voltage
P0976	Shift solenoid (2) low Voltage
P0977	Shift solenoid (2) high Voltage
P0989	Trans fluid pressure switch (5) low Voltage
P0990	Trans fluid pressure switch (5) high Voltage
P1621	Long-Term Memory Perf.
P1684	Temp sensor Performance while power up
P1685	Temp sensor Perf. While power up low Voltage
P1686	Temp sensor Perf. While power up how voltage
P1751	Valve 1 shift Perf. Select Valve 2
P1825	Invalid Range found mode switch
P1831	Driver 2# controls function of line pressure
P1832	Driver 2# controls function of line pressure
P1876	
P1915	Up/down shift switch out of range Drive 3 mode switch starting in incorrect range
P2534	<u>0</u>
	Ignition starter switch low Voltage
P2714	Solenoid (4) CPC stuck Off
P2715	Solenoid (4) CPC stuck On Solenoid (4) CPC Perf
P2719	
P2720	Solenoid (4) CPC low Voltage
P2721	Solenoid (4) CPC hight Voltage
P2723	Solenoid (5) CPC stuck Off
P2724	Solenoid (5) CPC stuck On
P2728	Solenoid (5) CPC Perf.
P2729	Solenoid (5) CPC low Voltage
P2730	Solenoid (5) CPC high Voltage
P2762	Torque convertor Clutch Solenoid Perf.
P2763	Torque convertor Clutch Solenoid high Voltage
P2764	Torque convertor Clutch Solenoid low Voltage

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GM TEHCM TROUBLE SHOOTING: SOLENOID PERFORMANCE CONCERNS

A stuck pressure solenoid, whether it be stuck on and or stuck off, can sometimes indicate a potentially failed or malfunctioning TEHCM. However, they're multiple components and underlying concerns that can contribute to these conditions.

If you are diagnosing a TEHCM showing DTC's for performance and drivability that are not circuit related, a Clean Cycle is a proven method of corrective action as well as a great place to start while establishing a baseline on the present concern.

Please see "shift solenoid control Function" in this service packet based off of your transmission and application for proper solenoid readout and command status.

- 1. Begin by checking the fluid level as per the factory service manual for the transmission case and service if necessary.
- 2. Insert your factory scan tool and select "Clean Valve body" depending on your model tool it may be listed as a "service clean function". This will send a 12v signal to all solenoids to open and pulse rapidly on and off to self flush. If any debris is lodged in the solenoid this should clear the concern.

Tech Note: If a Clean Cycle is not available, you can power the individual solenoid on and off manually via a solenoid command status test. After this procedure is complete, Road test the vehicle and reevaluate codes. If codes persist perform a Line Pressure Test.

Please see "Solenoid Performance Concerns (Line Pressure Test Procedure)

GM TEHCM TROUBLE SHOOTING: SOLENOID PERFORMANCE CONCERNS LINE PRESSURE TEST PROCEDURE

Tech Note: It is crucial that this detailed procedure be followed accurately. Please note that Line pressure must be within 5-PSI of the pressure value shown in your factory service manual. If pressure varies greater then PSI the concern will be internal to the case.

1. Begin by insert a scan tool and starting the engine. Inspect the transmission for proper level of the case fluid.

- 2. Using your scan tool scan the vehicle for DTCs. (see DTC code references) At this time you can inspect the manual linkage for accurate engagement. You can now turn the engine off.
- 3. Remove the test hole plug and insert your factory equivalent pressure gauge. You can now access the Line pressure control solenoid through your factory scan tool.
- 4 For an accurate reading the following procedure should be performed at least 3 times so uniform results can be read and to avoid costly down time and misdiagnosis.
- 5. Start the vehicles engine and using the scan tool, increase/decrease line pressure by increments of 15 psi. during this time, the tool will automatically command the increment values.
- 6. Compare the pressure readings of the scan tool to the gauge inserted in the service port. If the pressure is varying more then 5 PSI the issue is internal .

Please see: "Internal Diagnosis of Solenoid performance issues"

GM TEHCM TROUBLE SHOOTING: SOLENOID PERFORMANCE CONCERNS "INTERNAL"

A stuck pressure solenoid, whether it be stuck on and or stuck off, can sometimes indicate a potentially failed or malfunctioning TEHCM. However, they're multiple components and underlying concerns that can contribute to these conditions.

If you are diagnosing a TEHCM showing DTC's for performance and drivability that are not circuit related, a Clean Cycle is a proven method of corrective action as well as a great place to start while establishing a baseline on the present concern.

Please see "shift solenoid control Function" in this service packet based off of your transmission and application for proper solenoid readout and command status.

- 1. Front Pump housing, check for loose bolts that can potentially back out of the housing, damage to oil filter and outer seals.
- 2. The line pressure valve can also become stuck or slow to respond.
- 3. The torque converter seal and front gear support should be checked next. Inspect for damage on the flat fluid passage gasket and be sure the fluid tube is not damaged.
- 4. The upper and lower valve body should be inspected next. Sticking and faulty pressure regulator valves (upper valve body) or a leaking main gasket or separator plate(upper/lower valve body) can all contribute to pressure concerns which can lead to TCM valve issues.
- 5. Check the TCM for torn or damaged seals. Replace/Repair components as necessary.

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GM TEHCM SERVICE PROGRAMMING:

Prior to programming the new Remanufactured unit, there are a few important steps to take to insure a successful programming cycle.

Most importantly: Application When using Dormanproducts.com to search by application you may notice that some applications will list more then 1 TEHCM for the same transmission model. Though both units would physically fit in the case and bolt to the valve body correctly, the internal circuitry and programmer structure will differ. This will typically result in communication concerns. When these listings arise however there are multiple tools to help you through the selection process:

- 1. OE Part # cross reference off of original unit
- 2. Matching Transmission broadcast code off of GM case (see GM broadcast code/OE identification in TEHCM service manual)
- 3. Vin # verification: if listing is still unclear, please contact the Dorman Techline @ 800-868-5777 with your vin # for assistance.

Once you have determined you have the correct TEHCM, prior to installing the unit, check mating pins on the TEHCM and vehicle side connector for bent or damaged pins. This quick tip can avoid communication concerns.

A battery charger must always be on during programming as it is very important to maintain at least 12v.

A droppage of just .2V is enough to cause communication concerns and programming errors. If you notice the voltage dropping on the vehicle, check the system for aftermarket accessories: alarms, radio and Performance programmers can all cause these types of concerns and should be removed or disabled during the programming sequence of a new module.

When using a Delco Based subscription service be sure to load the most updated software into the unit. When using the drop down bar this will typically be displayed as the newest service part # in the listing. If programming or communication concerns arise during installation, please contact the Dorman Techline @ 866-933-2911.

If using a RAP KIT by Drew-Tech see Dorman Rap Kit procedure in service manual.

DORMAN REMOTE ASIST PROGRAMING / BY DREW-TECH





STEP 1: Please Call Drew Technologies Customer Service @ 844.REFLASH (844.733.5274) to schedule the programming session.

This may take several hours depending on workload and demand. Please be sure to attach jumper cables from the vehicles 12v battery to the corresponding positive and negative ports on the side of the RAP tool.

STEP 2: When contacted, plug the 110v service plug to a power outlet and plug the OBDII adapter to the diagnostic service port.

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STEP 3: from this point Drew Technologies will flash the module with the newest available software.

Remember that the Flash is guaranteed by Dorman Products, if communication issues arise or trouble codes are present, please first check connection points on the TEHCM and vehicle harness.

Bent, missing or even corroded pins can cause communication errors while programming the module. contact the Dorman Products Techline @ 866-933-2911.

NOTES:

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FORD MOTOR CO. TCM & TEHCM SERVICE GUIDE

FORD MOTOR COMPANY

Application Coverage, Ford Motor Company



Dorman SKU #	Year Range and Transmission Fitment	Application Notes	Programming Required
609-021	04/05 Aviator 04/10 Explorer/Mountaineer 04/05 Thunderbird 04/06 LS 04/05 Aviator 05/10 Mustang 07/10 Explorer Sport Trac	5R55S	Programming not required
609-022	02/03 Explorer 02/03 Mountaineer 03 Aviator 03 Thunderbird 03 LS	5R55W, 5R55S	Programming not required
609-024	09/10 Explorer/Mountaineer/Sport Trac 09/11 Expedition/Navigator 2010 F150	6R60, 6R80	Must flash per factory service procedure
609-030	11/18 Fiesta, 12/18 Focus	DPS6	Must flash per factory service procedure and follow adaptive relearn
609-035	11/12 Explorer 08/12 Taurus 08/09 Taurus X 08/09 Sable 07/14 Edge 16 Edge 09/18 Flex 17/18 Fusion MKS 10/18 MKT 10/18 MKX 07/12 18 Continental 13/18 MKZ 13/18 P.I. Sedan SUV	6F50, 6F55	Must flash per factory service procedure

FORD MOTOR COMPANY DPS6: RELEARNING GUIDE

DPS6 ADAPTIVE RELEARN PROCEDURE (REQUIRES FORD IDS OR COMPATIBLE SCAN TOOL)

- 1. 1st program the Adaptive Shift Relearn.
- 2. Next, please relearn the Shift Drum
- 3. The Transmission Range Sensors can now be relearned
- 4. Please run through Clutch Adapt Cycle 1, and then Clutch Adapt Cycle 2.
- 5. Once the above has been completed, the application will require a full drive cycle, this typically takes 20-50 miles or until monitors have been reset.

Tech Note: For complete installation instructions and Torque specs please refer to: https://static.dormanproducts.com/document/609-030_is.pdf

Failure to complete this procedure correctly can result in: DTCs, No start, No movement, loss of power and or engagement. (please see DPS6 Trouble shooting)



TCM & TEHCM SERVICE GUIDE FORD MOTOR COMPANY

FORD MOTOR COMPANY DPS6: TROUBLE SHOOTING PRELIMINARY

609-030

Before condemning a TCM to be faulty, whether it being a replacement unit or original Ford module, it is always best practice to verify the concern through preliminary testing. Voltage drops in the 12v system can cause these types of concerns. So be sure to check the 12v system first including battery and alternator.

Tech Note: A faulty brake light bulb, whether being failed or incorrect voltage has been known to create shifting and communication concerns. It has been verified that less then .6v is enough to cause an issue and or concern.

Though the Ford Focus and Ford Fiesta from 2011/2015 do share the same Transmission module, the software does vary slightly depending on year breaks and thus so does the diagnosis procedure. In some cases it will indeed be unavoidable to replace the module, but in some instances the application may only need a factory re-flash followed by the Adaptive Relearn previously discussed.

Refer to DPS6 Trouble shooting replacement vs reprogramming guide.

FORD MOTOR COMPANY DPS6: TROUBLE SHOOTING REPLACING VS REPROGRAMMING GUIDE

609-030

In some cases reprogramming of the software will be all that is necessary in correcting certain concerns such as a no start or lack of engagement and please note that trouble codes may or not be present in the application.

This will NOT apply to Ford Focus models built after 11/6/15 up to 3/9/16.)

VEHICLE APPLICATIONS PRIOR TO 11/05/2015

(FIESTA 10/27/15 AND PRIOR & FOCUS 11/5/15 AND PRIOR)

1. Verify area of concern if issue is intermittent, (loss of power, no start, loss of PRNDL, parking proximity sensors erratic)

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- 2. If no codes are present, attempt to Re-Flash and Reprogram unit and Run through Ford adaptive Relearn Procedure.
- 3. If codes U0100,U0101 or U1013 persist, please replace the TCM.

VEHICLE APPLICATIONS AFTER 11/05/2015

(FORD FIESTA 10/28/15 AND UP)

Selection

- 1. Check system for DTC trouble codes (U0100, U0101, U1013 may be present)
- 2. Attempt to Re-Flash/Reprogram with newest software available.
- 3. Run through Ford Adaptive Relearn procedure previously discussed in this service manual.

Ford Motor Co. 6F50, 6F55: Shift Solenoid Control Function

Ford Motor Co. 6F50/55 Control Valve Command Function	Shift Control Sole- noid (1) Command Status ON-OFF	Clutch Pressure Control (5) 1/2/3/4-Clutch	Clutch Pressure Control (4) 2/6-Clutch	Clutch Pressure Control (2) 3/5-Reverse Clutch	Clutch Pressure Control (3) 4/5/6-Low Re- verse Clutch	Applied Gear Ratio
PARK	ON	OFF	OFF	OFF	ON	NA
REVERSE	ON	OFF	OFF	ON	ON	2.88 Direct
NEUTRAL	ON	OFF	OFF	OFF	ON	NA
1st Auto Stop (if equipped)	ON	ON	OFF	OFF	ON	4.48 Direct
Applied 1st	OFF	ON	OFF	OFF	OFF	4.48 Direct
Applied 2nd	OFF	ON	ON	OFF	OFF	2.87 Direct
Applied 3rd	OFF	ON	OFF	ON	OFF	1.84 Direct
Applied 4th	OFF	ON	OFF	OFF	ON	1.41 Direct
Applied 5th	OFF	OFF	OFF	ON	ON	1.00 Direct
Applied 6th	OFF	OFF	ON	OFF	ON	.74 OD

TCM & TEHCM SERVICE GUIDE FORD MOTOR COMPANY

Ford Motor Co. 6F50/6F55: Diagnostic Trouble Codes

Diagnos	tic Trouble Codes
Code	Reference
P0700	TCM MIL Illumination Requested
P0703	Circuit brake pedal switch invalid signal
P0705	Trans Range Switch Circuit
P0711	Trans Fluid Temp sensor Perf.
P0712	Trans Fluid Temp sensor low Voltage
P0713	Trans Fluid Temp sensor high Voltage
P0716	Trans input speed sensor performance
P0717	Trans input speed sensor low Voltage
P0722	Trans output speed sensor low Voltage
P0723	Trans output speed sensor intermittent
P0741	TCC clutch system stuck off
P0742	TCC clutch system stuck on
P0751	Shift Solenoid (1) valve stuck off
P0752	Shift Solenoid (1) valve stuck on
P0756	Shift Solenoid (1) valve stuck off
P0757	2/3 Solenoid Valve Perf. Loss of 3rd/4th gear
P0776	Solenoid (2) CPC stuck off
P0777	Solenoid (2) CPC stuck on
P0787	Down shift timing solenoid Circuit Voltage low
P0788	Down shift timing solenoid Circuit Voltage high
P0796	Solenoid (3) CPC stuck off
P0797	Solenoid (3) CPC stuck on
P0815	switch circuit on upshift error
P0816	switch circuit on downshift error
P0826	switch circuit up/downshift error
P0842	Trans fluid pressure switch (1) low Voltage
P0843	Trans fluid pressure switch (1) high Voltage
P0850	Park-neautral switch circuit concern
P0851	Park-neutral switch low Voltage
P0852	Park-neutral switch high Voltage
P0856	TCS inhibited see:C0242
P0872	Trans fluid pressure switch (3) low Voltage
P0873	Trans fluid pressure switch (3) high Voltage
P0877	Trans fluid pressure switch (4) low Voltage
P0878	Trans fluid pressure switch (4) high Voltage
P0961	system perf. Line pressure control solenoid
P0962	Line pressure control solenoid low Voltage
P0963	Line pressure control solenoid high Voltage
P0965	Solenoid (2) CPC system Perf.
P0966	Solenoid (2) CPC low Voltage
P0967	Solenoid (2) CPC high Voltage

	ostic Trouble Codes
Code	Reference
P0969	Solenoid (3) CPC system Perf.
P0970	Solenoid (3) CPC low Voltage
P0971	Solenoid (3) CPC High Voltage
P0973	Shift solenoid (1) low Voltage
P0974	Shift solenoid (1) high Voltage
P0976	Shift solenoid (2) low Voltage
P0977	Shift solenoid (2) high Voltage
P0989	Trans fluid pressure switch (5) low Voltage
P0990	Trans fluid pressure switch (5) high Voltage
P1684	Temp sensor Performance while power up
P1685	Temp sensor Perf. While power up low Voltage
P1686	Temp sensor Perf. While power up high Voltage
P1751	Valve 1 shift Perf. Select Valve 2
P1808	Trans fluid pressure switch stuck off
P1809	Trans fluid solenoid switch stuck on
p1810	Trans fluid pressure switch circuit
p1811	Maximum adapt and long shift pattern
P1816	Trans fluid pressure switch show P/N while Drive
P1818	Trans fluid pressure switch show Drive while P/N
P1825	Invalid Range found mode switch
P1831	Driver 2# controls function of line pressure
P1832	Driver 2# controls function of line pressure
P1876	Up/down shift switch out of range Drive 3
P2544	Trans Torque Request Circuit Concern
P2610	Timer Perf:Ignition control module off
P2714	Solenoid (4) CPC stuck Off
P2715	Solenoid (4) CPC stuck On
P2719	Solenoid (4) CPC Perf
P2720	Solenoid (4) CPC low Voltage
P2721	Solenoid (4) CPC hight Voltage
P2723	Solenoid (5) CPC stuck Off
P2724	Solenoid (5) CPC stuck On
P2728	Solenoid (5) CPC Perf.
P2729	Solenoid (5) CPC low Voltage
P2730	Solenoid (5) CPC high Voltage
P2762	Torque convertor Clutch Solenoid Perf.
P2763	Torque convertor Clutch Solenoid high Voltage
P2764	Torque convertor Clutch Solenoid Iow Voltage
P2796	Aux Trans. Fluid Pump Relay Control Circuit

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NOTES:

NISSAN TCM & TEHCM SERVICE GUIDE

Application Coverage, Nissan				
Dorman SKU #	Updated Applications Year Make Model Drive Type Transmission	Programming Required		
609-250	2005 Nissan Frontier 4WD 4.0L RE505A Trans 2005 Nissan Pathfinder 4WD 4.0L RE505A Trans	Programming not required		
609-251	2005 Nissan Frontier 2WD 4.0L RE505A Trans 2005 Nissan Xterra 2WD 4.0L RE505A Trans	Programming not required		
609-252	2006 Nissan Pathfinder 4WD 4.0L RE505A Trans 2006 Nissan Xterra 4WD 4.0L RE505A Trans	Programming not required		
609-253	2006 Nissan Frontier 2WD 4.0L RE505A Trans 2005 - 2007 Nissan Pathfinder 2WD 4.0L RE505A Trans 2006 - 2007 Nissan Xterra 2WD 4.0L RE505A Trans	Programming not required		
609-254	2007 - 2008 Nissan Frontier 4WD 4.0L RE505A Trans 2007 - 2008 Nissan Xterra 4WD 4.0L RE505A Trans	Programming not required		
609-255	2007 Nissan Frontier 2WD 4.0L RE505A Trans	Programming not required		
609-256	2008 Nissan Pathfinder 4WD 4.0L RE505A Trans	Programming not required		
609-257	2008 Nissan Pathfinder 2WD 4.0L RE505A Trans	Programming not required		

NISSAN TCM RE505A: INSTALLATION GUIDE

INSTALLATION TIPS:

When removing the factory fluid temp sensor, be sure to turn the alignment clips prior to tugging on the wire lead. Failure to do so, can result in damage to the connector.

When removing the mounting bolts for the TCM to the main body, please take notice to the different lengths on these bolts.

- 42mm Quantity (5) see chart
- 55mm Quantity (6) see chart
- 40mm Quantity (1) see chart

Be sure to plug in the factory speed sensor prior to raising the new assembly, failure to do so, can result in drivability concerns, missing or lost gears and erratic shifting patterns.

TCM & TEHCM SERVICE GUIDE

TORQUE SPECIFICATIONS/BOLT LOCATION:



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