Diagnostic Trouble Code (DTC) Charts

DTC Chart

**May also be generated by some other non-electric transmission hardware system.					
*Output circuit check, generated only by electrical symptoms.					
DTC	**Component**	**Description**	**Condition**	**Symptom**	**Action**
P0102, P0103, P1100, P1101	Mass Air Flow (MAF) Sensor	MAF concerns	MAF system inoperative which may cause a transmission concern.	High/low Electronic Pressure Control (EPC) pressure, incorrect shift schedule. Incorrect Torque Converter Clutch (TCC) engagement scheduling. Symptoms similar to a Throttle Position (TP) sensor failure.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P0112	Intake Air Temperature (IAT) Sensor	IAT indicates 125°C (254°F) (grounded)	Voltage drop across IAT exceeds scale set for temperature 125°C (254°F).	Incorrect EPC pressure. Either high or low which will result in harsh or soft shifts.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P0113	IAT	IAT indicates -40°C (-40°F) (open circuit)	Voltage drop across IAT exceeds scale set for temperature -40°C (-40°F).	Incorrect EPC pressure. Either high or low which will result in harsh or soft shifts.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P0114	IAT	IAT out of On-Board Diagnostic (OBD) range	IAT higher or lower than expected during Key ON Engine OFF (KOEO) and Key ON Engine Running (KOER) .	Rerun the OBD at normal operating temperature.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P0117	Engine Coolant Temperature (ECT) Sensor	ECT indicates 125°C (254°F)	Voltage drop across ECT exceeds scale set for temperature 125°C (254°F) (grounded).	TCC will always be off, resulting in reduced fuel economy.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P0118	ECT Sensor	ECT indicates -40°C (-40°F)	Voltage drop across ECT exceeds scale set for temperature -40°C (-40°F) (open circuit).	TCC will always be off, resulting in reduced fuel economy.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P0121, P0122, P0123, P1120, P1121, P1125, P1124	TP Sensor	TP concern	PCM has detected an error. This error may cause a transmission concern.	Harsh engagements, firm shift feel, abnormal shift schedule, TCC does not engage. TCC cycling.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P0121-P0124, P0221-P0224, P2100-P2107, P2110-	Accelerator Pedal Position (APP) Sensor	APP concern	PCM has detected an error. This error may cause a transmission concern.	Harsh engagements, firm shift feel, abnormal shift schedule, TCC does not engage. TCC cycling.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.

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P2112, P2121-P2124, P2126-P2129, P2121-P2135, P2138-P2140					
P0300-P0308, P0320, P0340, P1351-P1364	Electronic Ignition (EI)	EI concerns	EI system is inoperative which may cause a transmission concern.	Harsh engagements and shifts, late Wide Open Throttle (WOT) shifts, no TCC engagement.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P0500, P0503, U1039	ABS	Insufficient Vehicle Speed Sensor (VSS) input from ABS through the communication link	PCM detected a loss of VSS signal through the communication link from ABS.	No transmission symptom. Instrument Cluster (IC) speedometer may be affected.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P0705	Transmission Range (TR) Sensor	TR circuit failure	TR circuits, indicating an invalid pattern in TR _V. Condition caused by a short to ground or an open in TR 4, TR 3, TR 2 and/or TR 1 circuits. This DTC cannot be set by an incorrectly adjusted TR sensor.	Harsh engagements or wrong gear commanded. Defaults to (D) or invalid position.	GO to Pinpoint Test C.
P0708	TR Sensor	TR sensor circuit TR 3 open	TR sensor circuit TR 3 reading 2.6V-5.0V (open circuit). This DTC cannot be set by an incorrectly adjusted TR sensor.	Harsh engagements or wrong gear commanded. Defaults to (D) or invalid position.	GO to Pinpoint Test C.
P0711	Transmission Fluid Temperature (TFT) Sensor	No change in TFT	PCM has detected no TFT change during operation.	DTC set.	GO to Pinpoint Test B.
P0712	TFT Sensor	157°C (315°F) indicated TFT sensor circuit grounded	Voltage drop across TFT sensor exceeds scale set for temperature of 157°C (315°F).	DTC set.	GO to Pinpoint Test B.
P0713	TFT Sensor	-40°C (-40°F) indicated TFT sensor circuit open	Voltage drop across TFT sensor exceeds scale set for temperature -40°C (-40°F).	DTC set.	GO to Pinpoint Test B.
P0715	Turbine Shaft Speed (TSS) Sensor	Insufficient input from TSS sensor	PCM detected a loss of TSS signal during operation.	—	GO to Pinpoint Test E.
P0717	TSS Sensor	Insufficient input from TSS sensor	PCM detected a loss of TSS signal during operation.	—	GO to Pinpoint Test E.

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DTC	**Component**	**Description**	**Condition**	**Symptom**	**Action**
P0718	TSS Sensor	TSS sensor signal noisy	PCM has detected a noisy TSS signal.	—	GO to Pinpoint Test E.
P0720	Output Shaft Speed (OSS) Sensor	Insufficient input from OSS sensor	PCM detected a loss of OSS signal during operation.	Abnormal shift schedule, harsh shifts.	GO to Pinpoint Test E.
P0721	OSS Sensor	OSS sensor signal noisy	PCM has detected an erratic OSS signal.	Abnormal shift schedule, harsh shifts.	GO to Pinpoint Test E.
P0722	OSS Sensor	Insufficient input from OSS sensor	PCM detected a loss of OSS signal during operation.	Abnormal shift schedule, harsh shifts.	GO to Pinpoint Test E.
P0731**	Shift Solenoid A (SSA) , Shift Solenoid B (SSB) , Shift Solenoid C (SSC) or Internal Parts	1st gear ratio error	No 1st gear.	Correct gear ratio not achieved for commanded gear. Shift errors may also be due to other transmission concerns (stuck valves, damaged friction material). Engine rpm could be higher or lower than expected.	REFER to Diagnosis By Symptom in this section.
P0732**	SSA , SSB , SSC or Internal Parts	2nd gear ratio error	No 2nd gear.	Correct gear ratio not achieved for commanded gear. Shift errors may also be due to other transmission concerns (stuck valves, damaged friction material). Engine rpm could be higher or lower than expected.	REFER to Diagnosis By Symptom in this section.
P0733**	SSA , SSB , SSC or Internal Parts	3rd gear ratio error	No 3rd gear.	Correct gear ratio not achieved for commanded gear. Shift errors may also be due to other transmission concerns (stuck valves, damaged friction material). Engine rpm could be higher or lower than expected.	REFER to Diagnosis By Symptom in this section.
P0734**	SSA , SSB , SSC or Internal Parts	4th gear ratio error	No 4th gear.	Correct gear ratio not achieved for commanded gear. Shift errors may also be due to other transmission concerns (stuck valves, damaged friction material). Engine rpm could be higher or lower than expected.	REFER to Diagnosis By Symptom in this section.
P0735	SSA , SSB , SSC , Shift Solenoid D (SSD) or Internal Parts	5th gear ratio error	No 5th gear.	Correct gear ratio not achieved for commanded gear. Shift errors may also be due to other transmission concerns (stuck valves, damaged friction material). Engine rpm	REFER to Diagnosis By Symptom in this section.

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DTC	**Component**	**Description**	**Condition**	**Symptom**	**Action**
				could be higher or lower than expected.	
P0740*	TCC Solenoid	TCC solenoid circuit failure during OBD	TCC solenoid circuit fails to provide voltage drop across solenoid. Circuit open or shorted or PCM driver failure during OBD . May flash the Transmission Control Indicator Lamp (TCIL) .	Open or short to battery power: harsh shifts or engagements, engine rpm higher than expected. Short to ground: engine stalls when in drive gear at idle, harsh shifts or engagements or engine rpm lower than expected.	GO to Pinpoint Test A.
P0741**	TCC Solenoid	TCC solenoid circuit error or stuck OFF	The PCM picked up an excessive amount of TCC slippage during normal vehicle operation.	Stuck OFF: harsh shifts or engagements. Engine rpm may be higher than expected.	GO to Pinpoint Test A.
P0743*	TCC Solenoid	TCC solenoid circuit failure during OBD	TCC solenoid circuit fails to provide voltage drop across solenoid. Circuit open or shorted or PCM driver failure during OBD .	Open or short to battery power: harsh shifts or engagements, engine rpm higher than expected. Short to ground: engine stalls when in drive gear at idle, harsh shifts or engagements or engine rpm lower than expected.	GO to Pinpoint Test A.
P0745	Pressure Control Solenoid A (PCA)	PCA solenoid or circuit fault	PCA functional fault-low pressure	Incorrect shift pattern indicating mechanical or hydraulic failure of the transmission.	REFER to Diagnosis By Symptom in this section.
P0748	PCA	PCA solenoid inoperative	Electrical failure of the solenoid detected.	Possible slip in gear and/or 3rd gear ratio.	GO to Pinpoint Test D.
P0750*	SSA	SSA solenoid circuit failure	SSA circuit failed to provide voltage drop across solenoid. Circuit open or shorted or PCM driver failure during OBD .	Open or short to battery power: 1st gear ratio incorrect or no gear ratio errors, no 1st gear. Short to ground: no 4th or 5th gear.	GO to Pinpoint Test A.
P0753*	SSA	SSA solenoid circuit failure	SSA circuit failed to provide voltage drop across solenoid. Circuit open or shorted or PCM driver failure during OBD .	Open or short to battery power: 1st gear ratio incorrect or no gear ratio errors, no 1st gear. Short to ground: no 4th or 5th gear.	GO to Pinpoint Test A.
P0755*	SSB	SSB solenoid circuit failure	SSB circuit fails to provide voltage drop across solenoid. Circuit open or shorted or PCM driver failure during OBD .	Open or short to battery power: no 3rd gear. Short to ground: no 1st gear.	GO to Pinpoint Test A.
P0758*	SSB	SSB solenoid circuit failure	SSB circuit fails to provide voltage drop across solenoid. Circuit open or shorted or	Open or short to battery power: no 3rd gear. Short to ground: no 1st gear.	GO to Pinpoint Test A.

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DTC	**Component**	**Description**	**Condition**	**Symptom**	**Action**
			PCM driver failure during OBD .		
P0760*	SSC	SSC solenoid circuit failure	SSC circuit failed to provide voltage drop across solenoid. Circuit open or shorted or PCM driver failure during OBD .	Open or short to battery power: 2nd and 5th gear ratio incorrect. Short to ground: 1st gear ratio incorrect or no gear ratio errors.	GO to Pinpoint Test A.
P0763*	SSC	SSC solenoid circuit failure	SSC circuit failed to provide voltage drop across solenoid. Circuit open or shorted or PCM driver failure during OBD .	Open or short to battery power: 2nd and 5th gear ratio incorrect. Short to ground: 1st gear ratio incorrect or no gear ratio errors.	GO to Pinpoint Test A.
P0765	SSD	SSD solenoid circuit failure	SSD circuit failed to provide voltage drop across solenoid. Circuit shorted to ground.	Short to ground: no engine braking.	GO to Pinpoint Test A.
P0768	SSD	SSD solenoid circuit failure	SSD circuit failed to provide voltage drop across solenoid. Circuit shorted to ground.	Short to ground: no engine braking.	GO to Pinpoint Test A.
P0775	Pressure Control Solenoid B (PCB)	PCB solenoid or circuit fault	PCB functional fault — low pressure.	Incorrect shift pattern indicating mechanical or hydraulic failure of the transmission.	REFER to Diagnosis By Symptom in this section.
P0778	PCB	PCB solenoid inoperative	Electrical failure of the solenoid detected.	No 2nd and 5th gear.	GO to Pinpoint Test D.
P0791	Intermediate Shaft Speed Sensor	Intermediate shaft speed sensor signal failure	PCM has detected a loss of the intermediate shaft speed sensor signal.	Harsh shifts.	GO to Pinpoint Test E.
P0794	Intermediate Shaft Speed Sensor	Intermediate shaft speed sensor signal intermittent	PCM has detected an intermittent intermediate shaft speed sensor signal.	Harsh shifts.	GO to Pinpoint Test E.
P0795	Pressure Control Solenoid C (PCC)	PCC solenoid or circuit fault	PCC functional fault — low pressure.	Incorrect shift pattern indicating mechanical or hydraulic failure of the transmission.	REFER to Diagnosis By Symptom in this section.
P0798	PCC	PCC solenoid inoperative	Electrical failure of the solenoid detected.	Incorrect gear ratio in 4th and 5th gear.	GO to Pinpoint Test D.
P0960	Pressure Control Solenoid A (PCA)	PCA solenoid circuit open	Voltage through PCA solenoid is checked. Error is noted if tolerance is exceeded.	Open circuit — causes maximum PCA pressure, harsh engagements and shifts.	GO to Pinpoint Test D.
P0962**	PCA	PCA solenoid circuit failure, short to ground	Voltage through PCA solenoid is checked. An error will be noted if tolerance is exceeded.	Short circuit — causes minimum PCA pressure (minimum capacity) and limits engine torque (alternate firm). Slips in gear and 3rd gear incorrect.	GO to Pinpoint Test D.
P0963	PCA	PCA solenoid short to battery power or	Voltage through PCA solenoid is checked. An	Short to power — causes maximum PCA	GO to Pinpoint Test D.

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DTC	**Component**	**Description**	**Condition**	**Symptom**	**Action**
		short to ground	error will be noted if tolerance is exceeded.	pressure, harsh engagements and shifts. Short to ground — No 3rd gear.	
P0964	PCB	PCB solenoid circuit open	Voltage through PCB solenoid is checked. Error is noted if tolerance is exceeded.	Open circuit — causes maximum PCB pressure, harsh engagements and shifts.	GO to Pinpoint Test D.
P0966	PCB	PCB solenoid circuit failure, short to ground	Voltage through PCB solenoid is checked. An error will be noted if tolerance is exceeded.	Short to ground. No 2nd and 5th gear.	GO to Pinpoint Test D.
P0967	PCB	PCB solenoid short to battery voltage, short to ground	Voltage through PCB solenoid is checked. An error will be noted if tolerance is exceeded.	Short to battery power: harsh shift and engagements. Short to ground — No 2nd and 4th gear.	GO to Pinpoint Test D.
P0968	PCC	PCC solenoid circuit open	Voltage through PCC solenoid is checked. Error is noted if tolerance is exceeded.	Open circuit — causes maximum PCC pressure, harsh engagements and shifts.	GO to Pinpoint Test D.
P0970	PCC	PCC solenoid circuit failure, short to ground	Voltage through PCC solenoid is checked. An error will be noted if tolerance is exceeded.	No 4th and 5th gear.	GO to Pinpoint Test D.
P0971	PCC	PCC solenoid short to power, short to ground	Voltage through PCC solenoid is checked. An error will be noted if tolerance is exceeded.	Short to battery power: harsh shift and engagements. Short to ground — No 4th and 5th gear.	GO to Pinpoint Test D.
P1116	ECT Sensor	ECT out of OBD range	ECT temperature higher or lower than expected during KOEO and KOER .	Rerun OBD at normal operating temperature.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P1124	TP Sensor	TP sensor voltage high/low for OBD	TP sensor was not in the correct position for on-board diagnostic.	Rerun OBD at appropriate TP per application.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P1460	A/C	A/C clutch cycling pressure switch error	A/C or defrost ON condition may result from A/C clutch being ON during OBD .	DTC set during on-board diagnostic — rerun with A/C OFF. Failed ON — EPC pressure slightly low with A/C OFF.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P1572	Brake Pedal Position (BPP) Switch	BPP switch circuit failed	Brake ON circuit failure during normal operation.	Failed ON or not connected — TCC will not engage at less than one-third throttle. Failed OFF or not connected — TCC will not disengage when brake is applied.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P1636	SSx	SSx ISIG communication error	PCM has detected an error with the ISIG chip.	—	INSTALL a new PCM.

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DTC	**Component**	**Description**	**Condition**	**Symptom**	**Action**
P1700	Transmission	Transmission indeterminate failure	Internal component failure. Direct One-Way Clutch (OWC) failure.	Failure Mode Effects Management becomes active — engine rpm limited to 4,000 rpm. Failed a neutral condition in 1st, 3rd or 4th gear in automatic Mode. Only 2nd and 5th gear available. Other DTCs that may set P1700: P0745, P1747, P1760, P1714, P1715, P0750, P0755.	If other solenoid DTCs are present, DIAGNOSE and REPAIR them first. CLEAR DTCs and DRIVE vehicle. If P1700 returns, DISASSEMBLE transmission and INSPECT the direct OWC . REPAIR as required. CLEAR DTC. DRIVE vehicle and VERIFY repair.
P1702	TR Sensor	TR signal intermittent, code P0705, P0708 are set	See P0705, P0708 conditions.	See P0705, P0708 symptoms.	GO to Pinpoint Test C.
P1703	BPP Switch	Brake not actuated during OBD KOER	Brake not cycled during KOER .	Failed ON or not connected — TCC will not engage at less than one-third throttle. Failed OFF or not connected — TCC will not disengage when brake is applied.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P1703	BPP Switch	BPP switch circuit failed	Brake ON circuit failure during KOEO .	Failed ON or not connected — TCC will not engage at less than one-third throttle. Failed OFF or not connected — TCC will not disengage when brake is applied.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P1704	TR Sensor	TR not in P or N positions during KOEO /KOER	TR sensor or transmission selector lever cable incorrectly adjusted or TR circuit failure.	DTC is set.	GO to Pinpoint Test C.
P1705	TR Sensor	TR not in P or N during KOEO /KOER	KOEO /KOER not run in park or neutral, or TR circuit failure.	DTC is set.	RERUN KOEO /KOER in P or N or GO to Pinpoint Test C.
P1711	TFT Sensor	TFT out of OBD range	Transmission not at operating temperature during OBD .	DTC set — vehicle cold or overheated.	Warm or cool vehicle to normal operating temperature. GO to Pinpoint Test B.
P1714	SSA	SSA inoperative	Mechanical failure of the solenoid detected.	Stuck OFF. Open or short to battery power: 1st gear ratio incorrect or no gear ratio errors, no 1st gear. May turn on Malfunction Indicator Lamp (MIL) . Stuck ON. No 4th or 5th gear.	GO to Pinpoint Test F.
P1715	SSB	SSB inoperative	Mechanical failure of the solenoid detected.	Stuck OFF: 3rd gear ratio incorrect, no 3rd gear. Stuck ON: 1st gear ratio incorrect or no 1st gear.	GO to Pinpoint Test F.

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DTC	**Component**	**Description**	**Condition**	**Symptom**	**Action**
P1716	SSC	SSC inoperative	Mechanical failure of the solenoid detected.	Stuck OFF: 2nd and 5th gear ratio incorrect. Stuck ON: 1st gear ratio incorrect or no gear ratio errors.	GO to Pinpoint Test F.
P1717	SSD	SSD inoperative	Mechanical failure of the solenoid detected.	Stuck ON: no engine braking.	GO to Pinpoint Test F.
P1740**	TCC Solenoid	TCC solenoid inoperative	TCC not commanded. Mechanical failure of the solenoid detected.	Stuck OFF: harsh shifts or engagements, engine rpm higher than expected. Stuck ON: engine stalls when in drive gear at idle, harsh shifts or engagements or engine rpm lower than expected.	GO to Pinpoint Test F.
P1780	Transmission Control Switch (TCS)	TCS not changing states	TCS not cycled during self-test. TCS circuit or switch open or shorted.	No overdrive cancel when cycled during KOER .	RERUN OBD and cycle switch. REFER to Section 307-05 for further diagnosis and repair.
P1783	TFT Sensor	Transmission overtemp condition indicated	TFT exceeded 127°C (270°F).	Increase in control pressure.	GO to Pinpoint Test B.