

Diagnostic Trouble Code Charts

Diagnostic Trouble Code Chart

**May also be generated by some other non-electric transmission hardware system.					
*Output circuit check, generated only by electrical symptoms.					
Five Digit DTC	Component	Description	Condition	Symptom	Action
P0102, P0103, P1100, P1101	MAF	MAF concerns	MAF system inoperative which may cause a transmission concern.	High/low EPC pressure, incorrect shift schedule. Incorrect torque converter clutch engagement scheduling. Symptoms similar to a TP failure.	REFER to thePowertrain Control/Emissions Diagnosis (PC/ED) manual.
P0112	IAT	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 thePowertrain 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 thePowertrain Control/Emissions Diagnosis (PC/ED) manual.
P0114	IAT	IAT out of on-board diagnostic range	IAT temperature higher or lower than expected during KOEO and KOER.	Rerun on-board diagnostic at normal operating temperature.	REFER to thePowertrain Control/Emissions Diagnosis (PC/ED) manual.
P1116	ECT	ECT out of on-board diagnostic range	ECT temperature higher or lower than expected during KOEO and KOER.	Rerun on-board diagnostic at normal operating temperature.	REFER to thePowertrain Control/Emissions Diagnosis (PC/ED) manual.
P0117	ECT	ECT indicates 125° C (254°F)	Voltage drop across ECT exceeds scale set for temperature 125°C (254° F) (grounded).	Torque converter clutch will always be off, resulting in reduced fuel economy.	REFER to thePowertrain Control/Emissions Diagnosis (PC/ED) manual.
P0118	ECT	ECT indicates -40°C (-40°F)	Voltage drop across ECT exceeds scale set for temperature -40°C (-40° F) (open circuit).	Torque converter clutch will always be off, resulting in reduced fuel economy.	REFER to thePowertrain Control/Emissions Diagnosis (PC/ED) manual.
P0121, P0122, P0123, P1120, P1121, P1125, P1124	TP	TP concern	PCM has detected an error. This error may cause a transmission concern.	Harsh engagements, firm shift feel, abnormal shift schedule, torque converter clutch does not engage. Torque converter clutch cycling.	REFER to thePowertrain Control/Emissions Diagnosis (PC/ED) manual.
P0300-P0308, P0320, P0340, P1351-P1364	EI	EI concerns	EI system is inoperative which may cause a transmission concern.	Harsh engagements and shifts, late WOT shifts, no torque converter clutch engagement.	REFER to thePowertrain Control/Emissions Diagnosis (PC/ED) manual.
P0503, P0500,	ABS	Insufficient VSS input from ABS through SCP link.	PCM detected a loss of vehicle speed signal through SCP link from ABS.	No transmission symptom. I.P. speedometer may be affected.	REFER to thePowertrain Control/Emissions Diagnosis (PC/ED) manual.
P0705	Digital TR sensor	Digital TR circuit failure	Digital TR circuits, indicating an invalid pattern in TR_D. Condition caused by a short to ground or an open in TR4, TR3A, TR2, and or TR1 circuits. This DTC cannot be set by an incorrectly adjusted digital TR sensor.	Increase in control pressure (harsh shifts). Defaults to D5 or invalid position.	Go To Pinpoint Test C.
P0708	Digital TR sensor	Digital TR sensor circuit TR3A open	Digital TR sensor circuit TR3A reading 2.6v - 5.0v (open circuit). This DTC cannot be set by an incorrectly adjusted digital TR sensor.	Increase in PC pressure. Defaults to D5 for all gear positions.	Go To Pinpoint Test C.
P0712	TFT	157°C (315°F) indicated TFT sensor circuit grounded	Voltage drop across TFT sensor exceeds scale set for temperature of 157°C (315°F).	Firm shift feel.	Go To Pinpoint Test B.
P0713	TFT	-40°C (-40°F) indicated TFT sensor circuit open	Voltage drop across TFT sensor exceeds scale set for temperature - 40°C (-40°F).	Firm shift feel.	Go To Pinpoint Test B.
P0715	TSS	Insufficient input from turbine shaft speed sensor	PCM detected a loss of TSS signal during operation.	Harsh shifts, harsh torque converter clutch activation, and harsh engagement.	Go To Pinpoint Test E.
P0717	TSS	Turbine shaft speed sensor signal intermittent.	PCM has detected an intermittent TSS signal.	Harsh shifts, harsh torque converter clutch activation, and harsh engagement.	Go To Pinpoint Test E.
P0718	TSS	Turbine shaft speed sensor signal noisy.	PCM has detected a noisy TSS signal.	Harsh shifts, harsh torque converter clutch activation, and harsh engagement.	Go To Pinpoint Test E.
P0720	OSS	Insufficient input from OSS sensor	PCM detected a loss of OSS signal during operation.	Possible abnormal shift schedule.	Go To Pinpoint Test E.
P0721	OSS	Output shaft speed sensor signal noisy	PCM has detected an erratic OSS signal.	Abnormal shift schedule.	Go To Pinpoint Test E.
P0722	OSS	Output shaft speed sensor signal intermittent	PCM has detected an intermittent OSS signal.	Abnormal shift schedule.	Go To Pinpoint Test E.
P0731**	SSA, SSB, SSC or internal parts	1st gear error	No 1st gear.	Incorrect gear selection depending on failure or mode and manual lever position. Shift errors may also be due to other internal transmission concerns (stuck valves, damaged friction material). Engine rpm could be higher or lower than expected.	REFER to the Solenoid On/Off Charts. Go To Pinpoint Test A.

P0732**	SSA, SSB, SSC or internal parts	2nd gear error	No 2nd gear.	Incorrect gear selection depending on failure or mode and manual lever position. Shift errors may also be due to other internal transmission concerns (stuck valves, damaged friction material). Engine rpm could be higher or lower than expected.	REFER to the Solenoid On/Off Charts. Go To Pinpoint Test A.
P0733**	SSA, SSB, SSC or internal parts	3rd gear error	No 3rd gear.	Incorrect gear selection depending on failure or mode and manual lever position. Shift errors may also be due to other internal transmission concerns (stuck valves, damaged friction material). Engine rpm could be higher or lower than expected.	REFER to the Solenoid On/Off Charts. Go To Pinpoint Test A.
P0734**	SSA, SSB, SSC or internal parts	4th gear error	No 4th gear.	Incorrect gear selection depending on failure or mode and manual lever position. Shift errors may also be due to other internal transmission concerns (stuck valves, damaged friction material). Engine rpm could be higher or lower than expected.	REFER to the Solenoid On/Off Charts. Go To Pinpoint Test A.
P0735	SSA, SSB, SSC, SSD or internal parts	5th gear error	No 5th gear.	Incorrect gear selection depending on failure or mode and manual lever position. Shift errors may also be due to other internal transmission concerns (stuck valves, damaged friction material etc.). Engine rpm could be higher or lower than expected.	REFER to the Solenoid On/Off Chart. Go To Pinpoint Test A.
P0741**	TCC	TCC slippage detected	The PCM picked up an excessive amount of TCC slippage during normal vehicle operation.	TCC slippage/erratic or no torque converter clutch operation.	REFER to the Diagnosis by Symptom Index in Diagnosis By Symptom.
P0743*	TCC	TCC solenoid circuit failure during on-board diagnostic	TCC solenoid circuit fails to provide voltage drop across solenoid. Circuit open or shorted or PCM driver failure during on-board diagnostics.	Short circuit — converter clutch always engage. Open circuit — torque converter clutch never engages.	Go To Pinpoint Test A.
P0745, P1747**	PCA	PCA solenoid circuit failure, shorted circuit	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 third gear incorrect.	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 on-board diagnostic.	No fourth or fifth gear (short) or no first gear (open). Will flash MIL.	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 on-board diagnostic.	No fourth or fifth gear (short) or no first gear (open). Will flash TCIL.	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 on-board diagnostic.	No first gear (short) or no third gear (open). Will flash MIL.	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 PCM driver failure during on-board diagnostic.	No first gear (short) or no third gear (open). Will flash TCIL.	Go To Pinpoint Test A.
P0760*	SSC	SSC solenoid circuit failure	SSC circuit failed to provide voltage drop across solenoid. Circuit open or shorted or PCM driver failure during on-board diagnostic.	Incorrect gear selection depending on condition mode and manual lever position. See Solenoid On/Off chart. Will flash MIL.	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 on-board diagnostic.	Incorrect gear selection depending on condition mode and manual lever position. See Solenoid On/Off chart. Will flash TCIL.	Go To Pinpoint Test A.
P0765	SSD	SSD solenoid circuit failure	SSD circuit failed to provide voltage drop across solenoid. Circuit open, shorted or PCM driver circuit failure during on-board diagnostics.	No engine braking in manual gears. Will flash MIL.	Go To Pinpoint Test A.
P0768	SSD	SSD solenoid circuit failure	SSD circuit failed to provide voltage drop across solenoid. Circuit open, shorted or PCM driver circuit failure during on-board diagnostics.	No engine braking in manual gears. Will flash TCIL.	Go To Pinpoint Test A.
P0775, P1789**	PCB	PCB solenoid circuit failure, shorted circuit	Voltage through PCB solenoid is checked. An error will be noted if tolerance is exceeded.	Short circuit — causes minimum PCB pressure (minimum capacity) and limits engine torque (alternate firm). Zero PCB — no second and fifth gear.	Go To Pinpoint Test D.
P0779	PCB	PCB solenoid Intermittent short to ground	Voltage through PCB solenoid is checked. An error will be noted if tolerance is exceeded.	Short circuit — causes minimum PCB pressure (minimum capacity) and limits engine torque (alternate firm). Zero PCB — no second and fifth gear.	Go To Pinpoint Test D.
P0791	ISS	Intermediate shaft speed sensor signal failure.	PCM has detected a loss of the ISS signal.	Harsh shifts (2-3).	Go To Pinpoint Test E.
P0794	ISS	Intermediate shaft speed sensor signal intermittent	PCM has detected an intermittent ISS signal.	Harsh shifts (2-3).	Go To Pinpoint Test E.
P0795, P0797**	PCC	PCC solenoid circuit failure, shorted circuit	Voltage through PCC solenoid is checked. An error will be noted if tolerance is exceeded.	Incorrect gear ratio in fourth and fifth gear.	Go To Pinpoint Test D.
P0796**	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.
P0799	PCC	PCC solenoid	Voltage through PCC solenoid is	Short circuit — causes minimum PCC	Go To Pinpoint Test D.

		intermittent short to ground	checked. An error will be noted if tolerance is exceeded.	pressure (minimum capacity) and limits engine torque (alternate firm). Incorrect gear ratio in fourth and fifth gear.	
P0814	J-GATE	J-GATE circuit input signal failed.	PCM has detected incorrect J gate voltage.	No or improper illumination of the J-gate position.	REFER to Section 307-05 .
P0815	SST +/-	SST +/- circuit input signal failed.	PCM has detected an incorrect voltage SST input.	May not be able to shift in manual mode.	REFER to Section 307-05 .
P0840	REV	Reverse pressure switch circuit input signal failed.	PCM has detected incorrect voltage at the reverse pressure switch input.	No engine braking in manual third or fourth gear.	Go To Pinpoint Test G .
P1124	TP	TP voltage high/low for on-board diagnostic.	TP was not in the correct position for on-board diagnostic.	Rerun at appropriate throttle position 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 on-board diagnostic.	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.
P1636	SSx	SSx ISIG communication error	PCM has detected an error with the ISIG chip.	—	INSTALL a new PCM.
P1700	TRANS	Transmission indeterminate failure	Internal component failure. Direct one-way clutch failure.	Failed a neutral condition. FMEM becomes active — engine rpm limited to 4000 rpms. No 1st, 3rd, or 4th gear in automatic mode. 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 one-way clutch. Repair as required. CLEAR DTC. Drive vehicle and verify repair.
P1702	Digital TR	Digital TR signal intermittent, code P0705, P0708 are set.	See P0705, P0708 conditions.	See P0705, P0708 symptoms.	Go To Pinpoint Test C .
P1703	BPP	Brake not actuated during on-board diagnostic KOER	Brake not cycled during KOER.	Failed ON or not connected — torque converter clutch will not engage at less than 1/3 throttle. Failed OFF or not connected — torque converter clutch will not disengage when brake is applied.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P1703	BPP	BPP switch circuit failed	Brake ON circuit failure during KOEO.	Failed ON or not connected — torque converter clutch will not engage at less than 1/3 throttle. Failed OFF or not connected — torque converter clutch will not disengage when brake is applied.	REFER to the Powertrain Control/Emissions Diagnosis (PC/ED) manual.
P1704	Digital TR	Digital TR not in P or N positions during KOEO/KOER.	Digital TR sensor or shift cable incorrectly adjusted or digital TR circuit failure.	Wrong commanded PC pressure. Digital TR reading the wrong gear position. (i.e., in overdrive position, transmission stuck in manual three for base shifter and four for SST shifter).	Go To Pinpoint Test C .
P1705	Digital TR	Digital TR not in PARK or NEUTRAL during KOEO/KOER.	KOEO/KOER not run in PARK or NEUTRAL, or digital TR circuit failure.	DTC is set.	RERUN KOEO/KOER in PARK or NEUTRAL or Go To Pinpoint Test C .
P1711	TFT	TFT out of on-board diagnostic range	Transmission not at operating temperature during on-board diagnostic.	DTC set — vehicle cold or overheated.	Warm or cool vehicle to normal operating temperature. Go To Pinpoint Test B .
P1713	TFT	No change in TFT - low range	PCM has detected no TFT change at low range during operation.	Increase EPC, incorrect TCC engagement schedule, harsh engagement, harsh shifts.	Go To Pinpoint Test B .
P1714	SSA	SSA inoperative	Mechanical failure of the solenoid detected.	No fourth or fifth gear (short) or no first gear (open).	Go To Pinpoint Test F .
P1715	SSB	SSB inoperative	Mechanical failure of the solenoid detected.	No first gear (short) or no third gear (open)	Go To Pinpoint Test F .
P1716	SSC	SSC inoperative	Mechanical failure of the solenoid detected.	Incorrect gear selection depending on condition mode and manual lever position. See Solenoid On/Off Chart.	Go To Pinpoint Test F .
P1717	SSD	SSD inoperative	Mechanical failure of the solenoid detected.	Incorrect gear selection depending on condition, mode and manual lever position. See the Solenoid On/Off Chart.	Go To Pinpoint Test F .
P1718	TFT	No change in TFT - high range	PCM has detected no TFT change at high range during operation.	Increase EPC, incorrect TCC engagement schedule, harsh engagement, harsh shifts.	Go To Pinpoint Test B .
P1740	TCC	TCC inoperative	Mechanical failure of the solenoid detected.	Failed ON — Converter clutch always on. Failed OFF — torque converter never applies.	Go To Pinpoint Test F .
P1746**	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 .
P1760	PCA	PCA solenoid Intermittent 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, third incorrect.	Go To Pinpoint Test D .
P1780	TCS	TCS input incorrect per selected position	TCS voltage incorrect.	No overdrive cancel when range selector is moved	RERUN on-board diagnostic and cycle switch. REFER to Section 307-05 .
P1783	TFT	Transmission overtemp condition indicated	Transmission fluid temperature exceeded 127°C (270°F).	Increase in control pressure.	Go To Pinpoint Test B .
P1788**	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 .