

# DIAGNOSTIC TROUBLE CODE CHART

## HINT:

Parameters listed in the chart may not be exactly the same as your readings due to factors such as the type of instrument.

If a DTC is displayed during the DTC check in check mode, check the circuit for the DTC listed in the table below. For details of each DTC, refer to the "See page" under the respective DTC No. in this chart.

DTC No. (See Page)	Detection Item	Trouble Area	*1 MIL	Memory
P0010/39 (05-282)	Camshaft Position "A" Actuator Circuit (Bank 1)	<ul style="list-style-type: none"> <li>• Open or short in oil control valve circuit</li> <li>• Oil control valve</li> <li>• ECM</li> </ul>	○	○
P0011/59 (05-287)	Camshaft Position "A" –Timing Over–Advanced or System Performance (Bank 1)	<ul style="list-style-type: none"> <li>• Valve timing</li> <li>• Oil control valve</li> <li>• Camshaft timing gear assembly</li> <li>• ECM</li> </ul>	—	○
P0012/59 (05-287)	Camshaft Position "A" –Timing Over– Retarded (Bank 1)	<ul style="list-style-type: none"> <li>• Valve timing</li> <li>• Oil control valve</li> <li>• Camshaft timing gear assembly</li> <li>• ECM</li> </ul>	—	○
P0016/18 (05-294)	Crankshaft Position – Camshaft Position Correlation (Bank 1 Sensor A)	<ul style="list-style-type: none"> <li>• Mechanical system (Jumped tooth of timing chain or chain stretched)</li> <li>• ECM</li> </ul>	—	○
P0100/31 (05-295)	Mass or Volume Air Flow Circuit	<ul style="list-style-type: none"> <li>• Open or short in mass air flow meter circuit</li> <li>• Mass air flow meter</li> <li>• ECM</li> </ul>	○	○
P0102/31 (05-295)	Mass or Volume Air Flow Circuit Low Input	<ul style="list-style-type: none"> <li>• Open in mass air flow meter circuit</li> <li>• Short in ground circuit</li> <li>• Mass air flow meter</li> <li>• ECM</li> </ul>	○	○
P0103/31 (05-295)	Mass or Volume Air Flow Circuit High Input	<ul style="list-style-type: none"> <li>• Short in mass air flow meter circuit (+B circuit)</li> <li>• Mass air flow meter</li> <li>• ECM</li> </ul>	○	○
P0110/24 (05-304)	Intake Air Temperature Circuit	<ul style="list-style-type: none"> <li>• Open or short in intake air temperature sensor circuit</li> <li>• Intake air temperature sensor (built into mass air flow meter)</li> <li>• ECM</li> </ul>	—	○
P0112/24 (05-304)	Intake Air Temperature Circuit Low Input	<ul style="list-style-type: none"> <li>• Short in intake air temperature sensor circuit</li> <li>• Intake air temperature sensor (built into mass air flow meter)</li> <li>• ECM</li> </ul>	—	○
P0113/24 (05-304)	Intake Air Temperature Circuit High Input	<ul style="list-style-type: none"> <li>• Open in intake air temperature sensor circuit</li> <li>• Intake air temperature sensor (built into mass air flow meter)</li> <li>• ECM</li> </ul>	—	○
P0115/22 (05-309)	Engine Coolant Temperature Circuit	<ul style="list-style-type: none"> <li>• Open or short in engine coolant temperature sensor circuit</li> <li>• Engine coolant temperature sensor</li> <li>• ECM</li> </ul>	○	○
P0117/22 (05-309)	Engine Coolant Temperature Circuit Low Input	<ul style="list-style-type: none"> <li>• Short in engine coolant temperature sensor circuit</li> <li>• Engine coolant temperature sensor</li> <li>• ECM</li> </ul>	○	○
P0118/22 (05-309)	Engine Coolant Temperature Circuit High Input	<ul style="list-style-type: none"> <li>• Open in engine coolant temperature sensor circuit</li> <li>• Engine coolant temperature sensor</li> <li>• ECM</li> </ul>	○	○
P0120/41 (05-314)	Throttle/Pedal Position Sensor/Switch "A" Circuit	<ul style="list-style-type: none"> <li>• Throttle position sensor (built into throttle body)</li> <li>• ECM</li> </ul>	○	○
P0122/41 (05-314)	Throttle/Pedal Position Sensor/Switch "A" Circuit Low Input	<ul style="list-style-type: none"> <li>• Throttle position sensor (built into throttle body)</li> <li>• Short in VTA1 circuit</li> <li>• Open in VC circuit</li> <li>• ECM</li> </ul>	○	○

DTC No. (See Page)	Detection Item	Trouble Area	*1 MIL	Memory
P0123/41 (05-314)	Throttle/Pedal Position Sensor/ Switch "A" Circuit High Input	<ul style="list-style-type: none"> <li>• Throttle position sensor (built into throttle body)</li> <li>• Open in VTA1 circuit</li> <li>• Open in E2 circuit</li> <li>• VC and VTA1 circuits are short-circuited</li> <li>• ECM</li> </ul>	○	○
P0130/21 (05-322)	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 1)	<ul style="list-style-type: none"> <li>• Open or short in heated oxygen sensor circuit</li> <li>• Heated oxygen sensor (Sensor 1)</li> <li>• Heated oxygen sensor heater (Sensor 1)</li> <li>• EFI relay</li> <li>• Air induction system</li> <li>• Fuel pressure</li> <li>• Injector</li> <li>• ECM</li> </ul>	—	○
P0135/21 (05-332)	Oxygen Sensor Heater Circuit (Bank 1 Sensor 1)	<ul style="list-style-type: none"> <li>• Open or short in heater circuit of heated oxygen sensor</li> <li>• Heated oxygen sensor heater</li> <li>• EFI relay</li> <li>• ECM</li> </ul>	—	○
P0136/27 (05-335)	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)	<ul style="list-style-type: none"> <li>• Open or short in heated oxygen sensor circuit</li> <li>• Heated oxygen sensor (Sensor 2)</li> <li>• Heated oxygen sensor heater (Sensor 2)</li> <li>• EFI relay</li> </ul>	—	○
P0141/27 (05-332)	Oxygen Sensor Heater Circuit (Bank 1 Sensor 2)	<ul style="list-style-type: none"> <li>• Open or short in heater circuit of heated oxygen sensor</li> <li>• Heated oxygen sensor heater</li> <li>• EFI relay</li> <li>• ECM</li> </ul>	—	○
P0220/41 (05-314)	Throttle/Pedal Position Sensor/ Switch "B" Circuit	<ul style="list-style-type: none"> <li>• Throttle position sensor (built into throttle body)</li> <li>• ECM</li> </ul>	○	○
P0222/41 (05-314)	Throttle/Pedal Position Sensor/ Switch "B" Circuit Low Input	<ul style="list-style-type: none"> <li>• Throttle position sensor (built into throttle body)</li> <li>• Short in VTA2 circuit</li> <li>• Open in VC circuit</li> <li>• ECM</li> </ul>	○	○
P0223/41 (05-314)	Throttle/Pedal Position Sensor/ Switch "B" Circuit High Input	<ul style="list-style-type: none"> <li>• Throttle position sensor (built into throttle body)</li> <li>• Open in VTA2 circuit</li> <li>• Open in E2 circuit</li> <li>• VC and VTA2 circuits are short-circuited</li> <li>• ECM</li> </ul>	○	○
P0325/52 (05-341)	Knock Sensor 1 Circuit (Bank 1 or Single Sensor)	<ul style="list-style-type: none"> <li>• Open or short in knock sensor circuit</li> <li>• Knock sensor (under-torqued or looseness)</li> <li>• ECM</li> </ul>	○	○
P0327/52 (05-341)	Knock Sensor 1 Circuit Low Input (Bank 1 or Single Sensor)	<ul style="list-style-type: none"> <li>• Short in knock sensor circuit</li> <li>• Knock sensor</li> <li>• ECM</li> </ul>	○	○
P0328/52 (05-341)	Knock Sensor 1 Circuit High Input (Bank 1 or Single Sensor)	<ul style="list-style-type: none"> <li>• Open in knock sensor circuit</li> <li>• Knock sensor</li> <li>• ECM</li> </ul>	○	○
P0335/12, 13 (05-345)	Crankshaft Position Sensor "A" Circuit	<ul style="list-style-type: none"> <li>• Open or short in crankshaft position sensor circuit</li> <li>• Crankshaft position sensor</li> <li>• Sensor plate (crankshaft)</li> <li>• ECM</li> </ul>	○	○
P0339/13 (05-345)	Crankshaft Position Sensor "A" Circuit Intermittent	<ul style="list-style-type: none"> <li>• Same as DTC P0335/12, 13</li> </ul>	—	○
P0340/12 (05-349)	Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)	<ul style="list-style-type: none"> <li>• Open or short in camshaft position sensor circuit</li> <li>• Camshaft position sensor</li> <li>• Camshaft timing pulley</li> <li>• Jumped tooth of timing chain</li> <li>• ECM</li> </ul>	○	○

DTC No. (See Page)	Detection Item	Trouble Area	*1 MIL	Memory
P0341/12 (05-349)	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sensor)	• Same as DTC P0340/12	○	○
P0351/14 *3 (05-352)	Ignition Coil "A" Primary/Secondary Circuit	• Ignition system • Open or short in IGF or IGT1 to 4 circuits from ignition coil with igniter to ECM • No. 1 to No. 4 ignition coil with igniter • ECM	○	○
P0352/15 *3 (05-352)	Ignition Coil "B" Primary/Secondary Circuit	• Same as DTC P0351/14	○	○
P0353/14 *3 (05-352)	Ignition Coil "C" Primary/Secondary Circuit	• Same as DTC P0351/14	○	○
P0354/15 *3 (05-352)	Ignition Coil "D" Primary/Secondary Circuit	• Same as DTC P0351/14	○	○
P0500/42 (05-359)	Vehicle Speed Sensor "A"	• Open or short in speed sensor circuit • Speed sensor • Combination meter • ECM • Skid control ECU	○	○
P0503/23 (05-359)	Vehicle Speed Sensor "A" Inter-mittent/Erratic/High	• Open or short in speed sensor circuit • Speed sensor • Combination meter • ECM • Skid control ECU	—	○
P0504/51 (05-362)	Brake Switch "A"/"B" Correlation	• Short in stop lamp switch signal circuit • Stop lamp fuse • Stop lamp switch • ECM	—	○
P0516 (05-368)	Battery Temperature Sensor Circuit Low	• Battery thermometer sensor circuit • Battery thermometer sensor • ECM	—	○
P0517 (05-368)	Battery Temperature Sensor Circuit High	• Battery thermometer sensor circuit • Battery thermometer sensor • ECM	—	○
P0571/52 (05-1326)	Brake Switch "A" Circuit	• Cruise control system	—	○
P0604/89 (05-370)	Internal Control Module Random Access Memory (RAM) Error	• ECM	○	○
P0606/89 (05-370)	ECM/PCM Processor	• ECM	○	○
P0607/89 (05-370)	Control Module Performance	• ECM	○	○
P0657/89 (05-370)	Actuator Supply Voltage Circuit / Open	• ECM	○	○
P0710/38 (05-792)	Transmission Fluid Temperature Sensor "A" Circuit	• Electronic controlled automatic transmission (ECT)	○	○
P0712/38 (05-792)	Transmission Fluid Temperature Sensor "A" Circuit Low Input	• Electronic controlled automatic transmission (ECT)	○	○
P0713/38 (05-792)	Transmission Fluid Temperature Sensor "A" Circuit High Input	• Electronic controlled automatic transmission (ECT)	○	○
P0717/37 (05-798)	Input/Turbine Speed Sensor "A" Circuit No Signal	• Electronic controlled automatic transmission (ECT)	○	○
P0748/62 (05-810)	Pressure Control Solenoid "A" Electrical	• Electronic controlled automatic transmission (ECT)	○	○
P0778/63 (05-819)	Pressure Control Solenoid "B" Electrical	• Electronic controlled automatic transmission (ECT)	○	○

DTC No. (See Page)	Detection Item	Trouble Area	*1 MIL	Memory
P0793/67 (05-822)	Intermediate Shaft Speed Sensor "A" Circuit No Signal	• Electronic controlled automatic transmission (ECT)	○	○
P0982/65 (05-825)	Shift Solenoid "D" Control Circuit Low	• Electronic controlled automatic transmission (ECT)	○	○
P0983/65 (05-825)	Shift Solenoid "D" Control Circuit High	• Electronic controlled automatic transmission (ECT)	○	○
P1550 (05-371)	Battery Current Sensor Circuit	• Battery current sensor circuit • Battery current sensor • ECM	—	○
P1551 (05-371)	Battery Current Sensor Circuit Low	• Battery current sensor circuit • Battery current sensor • ECM	—	○
P1552 (05-371)	Battery Current Sensor Circuit High	• Battery current sensor circuit • Battery current sensor • ECM	—	○
P1602 (05-374)	Interior IC Malfunction	• Battery	—	○
P2102/41 (05-375)	Throttle Actuator Control Motor Circuit Low	• Open in throttle control actuator circuit • Throttle control actuator • ECM	○	○
P2103/41 (05-375)	Throttle Actuator Control Motor Circuit High	• Short in throttle control actuator circuit • Throttle control actuator • Throttle valve • Throttle body assembly • ECM	○	○
P2111/41 (05-378)	Throttle Actuator Control System – Stuck Open	• Throttle control actuator • Throttle body assembly • Throttle valve	○	○
P2112/41 (05-378)	Throttle Actuator Control System – Stuck Closed	• Same as DTC P2111/41	○	○
P2118/89 (05-380)	Throttle Actuator Control Motor Current Range/Performance	• Open in ETCS power source circuit • ETCS fuse • ECM	○	○
P2119/89 (05-380)	Throttle Actuator Control Throttle Body Range/Performance	• Electronic throttle control system • ECM	○	○
P2120/19 (05-385)	Throttle/Pedal Position Sensor/Switch "D" Circuit	• Accelerator pedal position sensor • ECM	○	○
P2121/19 (05-395)	Throttle/Pedal Position Sensor/Switch "D" Circuit Range/Performance	• Accelerator pedal position sensor circuit • Accelerator pedal position sensor • ECM	○	○
P2122/19 (05-385)	Throttle/Pedal Position Sensor/Switch "D" Circuit Low Input	• Accelerator pedal position sensor • Open in VCP1 circuit • Open or ground short in VPA1 circuit • ECM	○	○
P2123/19 (05-385)	Throttle/Pedal Position Sensor/Switch "D" Circuit High Input	• Accelerator pedal position sensor • Open in EPA circuit • ECM	○	○
P2125/19 (05-385)	Throttle/Pedal Position Sensor/Switch "E" Circuit	• Accelerator pedal position sensor • ECM	○	○
P2127/19 (05-385)	Throttle/Pedal Position Sensor/Switch "E" Circuit Low Input	• Accelerator pedal position sensor • Open in VCP2 circuit • Open or ground short in VPA2 circuit • ECM	○	○

DTC No. (See Page)	Detection Item	Trouble Area	*1 MIL	Memory
P2128/19 (05-385)	Throttle/Pedal Position Sensor/ Switch "E" Circuit High Input	<ul style="list-style-type: none"> <li>• Accelerator pedal position sensor</li> <li>• Open in EPA2 circuit</li> <li>• ECM</li> </ul>	○	○
P2135/41 (05-314)	Throttle/Pedal Position Sensor/ Switch "A"/"B" Voltage Correlation	<ul style="list-style-type: none"> <li>• VTA1 and VTA2 circuits are short-circuited</li> <li>• Throttle position sensor (built in throttle body)</li> <li>• ECM</li> </ul>	○	○
P2138/19 (05-385)	Throttle/Pedal Position Sensor/ Switch "D"/"E" Voltage Correlation	<ul style="list-style-type: none"> <li>• VPA and VPA2 circuits are short-circuited</li> <li>• Accelerator pedal position sensor</li> <li>• ECM</li> </ul>	○	○
P2716/77 (05-828)	Pressure Control Solenoid "D" Electrical (Shift Solenoid Valve S4)	<ul style="list-style-type: none"> <li>• Electronic controlled automatic transmission (ECT)</li> </ul>	○	○
P2769/64 (05-831)	DSL Solenoid Circuit Low	<ul style="list-style-type: none"> <li>• Electronic controlled automatic transmission (ECT)</li> </ul>	○	○
P2770/64 (05-831)	DSL Solenoid Circuit High	<ul style="list-style-type: none"> <li>• Electronic controlled automatic transmission (ECT)</li> </ul>	○	○
B2799	Engine Immobilizer System Malfunction	<ul style="list-style-type: none"> <li>• Immobilizer system</li> </ul>	—	○

\*1: MIL (Malfunction Indicator Lamp) illuminates.

\*2: This DTC indicates a malfunction related to the primary circuit.