05–55

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DIAGNOSTIC TROUBLE CODE CHART

HINT:

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

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

DTC No. (See Page)	Detection Item	Trouble Area	MIL ^{*1}	Memory
P0010 (05–63)	Camshaft Position "A" Actuator Circuit (Bank 1)	Open or short in oil control valve circuit Oil control valve ECM	0	0
P0011 (05–69)	Camshaft Position "A" –Timing Over–Advanced or System Per- formance (Bank 1)	 Valve timing Oil control valve Camshaft timing gear assembly ECM 	0	0
P0012 (<mark>05–69</mark>)	Camshaft Position "A" –Timing Over– Retarded (Bank 1)	Same as DTC P0011	0	0
P0016 (05–77)	Crankshaft Position – Camshaft Position Correlation (Bank 1 Sensor A)	 Mechanical system (Timing chain has jumped a tooth, chain stretched) ECM 	0	0
P0031 (05–79)	Oxygen (A/F) Sensor Heater Control Circuit Low (Bank 1 Sen- sor 1)	 Open or short in heater circuit of A/F sensor A/F sensor heater EFI M relay (Integration relay) ECM 	0	0
P0032 (05–79)	Oxygen (A/F) Sensor Heater Control Circuit High (Bank 1 Sensor 1)	 Short in heater circuit of A/F sensor A/F sensor heater EFI M relay (Integration relay) ECM 	0	0
P0037 (05–84)	Oxygen Sensor Heater Control Circuit Low (Bank 1 Sensor 2)	 Open or short in heater circuit of the heated oxygen sensor Heated oxygen sensor heater EFI M relay (integration relay) ECM 	0	0
P0038 (05–84)	Oxygen Sensor Heater Control Circuit High (Bank 1 Sensor 2)	 Short in heater circuit of the heated oxygen sensor Heated oxygen sensor heater EFI M relay (integration relay) ECM 	0	0
P0100 (05–89)	Mass or Volume Air Flow Circuit	 Open or short in mass air flow meter circuit Mass air flow meter ECM 	0	0
P0101 (05–96)	Mass or Volume Air Flow Circuit Range/Performance Problem	Mass air flow meter	0	0
P0102 (05–89)	Mass or Volume Air Flow Circuit Low Input	Open in mass air flow meter circuit Mass air flow meter ECM	0	0
P0103 (05–89)	Mass or Volume Air Flow Circuit High Input	 Short in mass air flow meter circuit Mass air flow meter ECM 	0	0
P0110 (05–98)	Intake Air Temperature Circuit	 Open or short in intake air temperature sensor circuit Intake air temperature sensor (built in mass air flow meter) ECM 	0	0
P0112 (05–98)	Intake Air Temperature Circuit Low Input	 Short in intake air temperature sensor circuit Intake air temperature sensor (built in mass air flow meter) ECM 	0	0
P0113 (05–98)	Intake Air Temperature Circuit High Input	 Open in intake air temperature sensor circuit Intake air temperature sensor (built in mass air flow meter) ECM 	0	0

DTC No. (See Page)	Detection Item	Trouble Area	MIL ^{*1}	Memory
P0115 (05–103)	Engine Coolant Temperature Cir- cuit	Open or short in engine coolant temperature sensor circuit Engine coolant temperature sensor ECM	0	0
P0116 (05–108)	Engine Coolant Temperature Cir- cuit Range/Performance Prob- lem	Engine coolant temperature sensor	0	0
P0117 (05–103)	Engine Coolant Temperature Cir- cuit Low Input	 Short in engine coolant temperature sensor circuit Engine coolant temperature sensor ECM 	0	0
P0118 (05–103)	Engine Coolant Temperature Cir- cuit High Input	Open in engine coolant temperature sensor circuit Engine coolant temperature sensor ECM	0	0
P0120 (05–110)	Throttle/Pedal Position Sensor/ Switch "A" Circuit	 Open or short in throttle position sensor circuit Throttle position sensor (built in throttle body) ECM 	0	0
P0121 (05–117)	Throttle/Pedal Position Sensor/ Switch "A" Circuit Range/Perfor- mance Problem	Throttle position sensor (built in throttle body)	0	0
P0122 (05–110)	Throttle/Pedal Position Sensor/ Switch "A" Circuit Low Input	 Throttle position sensor Open in VTA1 circuit Open in VC circuit (when the VC circuit is open, DTCs P0222 and P2135 are also output simultaneously) ECM 	0	0
P0123 (05–110)	Throttle/Pedal Position Sensor/ Switch "A" Circuit High Input	 Throttle position sensor (built in throttle body) Open in VTA circuit Open in E2 circuit VC and VTA circuits are short–circuited ECM 	0	0
P0125 (05–119)	Insufficient Coolant Temperature for Closed Loop Fuel Control	Cooling system Engine coolant temperature sensor Thermostat	0	0
P0128 (05–122)	Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature)	Thermostat Cooling system Engine coolant temperature sensor ECM	0	0
P0136 (05–125)	Oxygen Sensor Circuit Malfunc- tion (Bank 1 sensor 2)	Heated oxygen sensor	0	0
P0137 (05–125)	Oxygen Sensor Circuit Low Volt- age (Bank 1 Sensor 2)	 Open or short in heated oxygen sensor circuit Heated oxygen sensor Heated oxygen sensor heater EFI M relay (integration relay) 	0	0
P0138 (05–125)	Oxygen Sensor Circuit High Volt- age (Bank 1 Sensor 2)	Short in heated oxygen sensor circuit Heated oxygen sensor	0	0
P0171 (05–143)	System Too Lean (Bank 1)	 Air induction system Injector has blockage Mass air flow meter Engine coolant temperature sensor Fuel pressure Gas leakage in exhaust system Open or short in A/F sensor (bank 1 sensor 1) circuit A/F sensor (bank 1 sensor 1) A/F sensor heater (bank 1 sensor 1) EFI M relay (integration relay) PCV valve and hose PCV hose connection 	0	0

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DTC No. (See Page)	Detection Item	Trouble Area	MIL ^{*1}	Memory
P0172 (05–143)	System Too Rich (Bank 1)	 Injector has leakage or blockage Mass air flow meter Engine coolant temperature sensor Ignition system Fuel pressure Gas leakage in exhaust system Open or short in A/F sensor (bank 1 sensor 1) circuit A/F sensor (bank 1 sensor 1) A/F sensor heater (bank 1 sensor 1) EFI M relay (integration relay) ECM 	0	0
P0220 (05–110)	Throttle/Pedal Position Sensor/ Switch "B" Circuit	Open or short in throttle position sensor circuit Throttle position sensor ECM	0	0
P0222 (05–110)	Throttle/Pedal Position Sensor/ Switch "B" Circuit Low Input	 Throttle position sensor Open in VTA2 circuit Open in VC circuit (when the VC circuit is open, DTCs P0122 and P2135 are also output simultaneously) 	0	0
P0223 (05–110)	Throttle/Pedal Position Sensor/ Switch "B" Circuit High Input	Throttle position sensor	0	0
P0300 (05–157)	Random/Multiple Cylinder Misfire Detected	 Open or short in engine wire harness Connector connection Vacuum hose connection Ignition system Injector Fuel pressure Mass air flow meter Engine coolant temperature sensor Compression pressure Valve clearance Valve timing PCV hose connection PCV hose ECM 	⊜*2	0
P0301 (05–157)	Cylinder 1 Misfire Detected	• Same as DTC P0300	⊖* 2	0
P0302 (05–157)	Cylinder 2 Misfire Detected	Same as DTC P0300	_ ^{*2}	0
P0303 (05–157)	Cylinder 3 Misfire Detected	Same as DTC P0300	⊖* 2	0
P0304 (05–157)	Cylinder 4 Misfire Detected	• Same as DTC P0300	○ *2	0
P0325 (05–172)	Knock Sensor 1 Circuit (Bank 1 or Single Sensor)	Open or short in knock sensor circuitKnock sensor (looseness)ECM	0	0
P0327 (05–172)	Knock Sensor 1 Circuit Low In- put (Bank 1 or Single Sensor)	Short in knock sensor circuitKnock sensorECM	0	0
P0328 (05–172)	Knock Sensor 1 Circuit High In- put (Bank 1 or Single Sensor)	 Open in knock sensor circuit Knock sensor ECM 	0	0
P0335 (05–177)	Crankshaft Position Sensor "A" Circuit	 Open or short in crankshaft position sensor circuit Crankshaft position sensor Signal plate (crankshaft) ECM 	0	0

DTC No. (See Page)	Detection Item	Trouble Area	MIL ^{*1}	Memory
P0340 (05–181)	Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)	 Open or short in camshaft position sensor circuit Camshaft position sensor Camshaft timing pulley Timing chain has jumped a tooth ECM 	0	0
P0341 (05–181)	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sensor)	• Same as DTC P0340	0	0
P0351 *3 (05–185)	Ignition Coil "A" Primary/Second- ary Circuit	 Ignition system Open or short in IGF or IGT1 circuit between ignition coil with igniter and ECM No.1 ignition coil with igniter ECM 	0	0
P0352 *3 (05–185)	Ignition Coil "B" Primary/Second- ary Circuit	 Ignition system Open or short in IGF or IGT2 circuit between ignition coil with igniter and ECM No.2 ignition coil with igniter ECM 	0	0
P0353 *3 (05–185)	Ignition Coil "C" Primary/Second- ary Circuit	 Ignition system Open or short in IGF or IGT3 circuit between ignition coil with igniter and ECM No.3 ignition coil with igniter ECM 	0	0
P0354 *3 (05–185)	Ignition Coil "D" Primary/Second- ary Circuit	 Ignition system Open or short in IGF or IGT4 circuit between ignition coil with igniter and ECM No.4 ignition coil with igniter ECM 	0	0
P0420 (05–195)	Catalyst System Efficiency Be- low Threshold (Bank 1)	 Gas leakage in exhaust system A/F sensor (bank 1 sensor 1) Heated oxygen sensor (bank 1 sensor 2) Three–way catalytic converter (Exhaust manifold) 	0	0
P0441 (05–202)	Evaporative Emission Control System Incorrect Purge Flow	 Fuel tank cap is incorrectly installed Fuel tank cap is cracked or damaged Vacuum hose is cracked, blocked, damaged or disconnected ((1), (2), (3), (4), (5), (6) and (7) in Fig. 1) Open or short in vapor pressure sensor circuit Vapor pressure sensor Open or short in VSV circuit for EVAP VSV for EVAP Open or short in VSV circuit for CCV VSV for CCV Open or short in VSV circuit for pressure switching valve VSV for pressure switching valve Fuel tank is cracked or damaged Charcoal canister is cracked or damaged Fuel tank over fill check valve is cracked or damaged ECM 	0	0

DTC No. (See Page)	Detection Item	Trouble Area	MIL ^{*1}	Memory
P0442 (05–231)	Evaporative Emission Control System Leak Detected (small leak)	 Fuel tank cap is incorrectly installed Fuel tank cap is cracked or damaged Vacuum hose cracks is blocked, damaged or disconnected ((1), (2), (3), (4), (5), (6) and (7) in Fig. 1 of the circuit description) Open or short in vapor pressure sensor circuit Vapor pressure sensor Open or short in VSV circuit for EVAP VSV for EVAP Open or short in VSV circuit for CCV VSV for CCV Open or short in VSV circuit for pressure switching valve VSV for pressure switching valve Fuel tank is cracked or damaged Charcoal canister is cracked or damaged ECM 	0	0
P0446 (05–202)	Evaporative Emission Control System Vent Control Circuit	Same as DTC P0441	0	0
P0451 (<mark>05–255</mark>)	Evaporative Emission Control System Pressure Sensor/Switch Range/Performance	 Open or short in vapor pressure sensor circuit Vapor pressure sensor ECM 	0	0
P0452 (<mark>05–255</mark>)	Evaporative Emission Control System Pressure Sensor/Switch Low Input	Same as DTC P0451	0	0
P0453 (05–255)	Evaporative Emission Control System Pressure Sensor/Switch High Input	Same as DTC P0451	0	0
P0455 (05–231)	Evaporative Emission Control System Leak Detected (gross leak)	• Same as DTC P0442		
P0456 (05–231)	Evaporative Emission Control System Leak Detected (very small leak)	Same as DTC P0442	0	0
P0505 (05–261)	Idle Air Control System	 Open or short in idle speed control (ISC) valve circuit Idle speed control (ISC) valve has stuck closed ECM Air induction system PCV valve and hose 	0	0
P0560 (05–264)	System Voltage	Open in back up power source circuit ECM	0	0
P0604 (05–268)	Internal Control Module Random Access Memory (RAM) Error	• ECM	0	0
P0606 (05–268)	ECM/PCM Processor	• ECM	0	
P0607 (05–268)	Control Module Performance	• ECM	0	0
P0657 (05–268)	Actuator Supply Voltage Circuit/ Open	• ECM	0	0
P1115 (05–270)	Coolant Temperature Sensor Cir- cuit For Coolant Heat Storage System	Coolant heat storage tank outlet temperature sensor Open or short in temperature sensor circuit ECM	0	0
P1116 (05–275)	Coolant Temperature Sensor Cir- cuit Stuck For Coolant Heat Stor- age System	 Coolant heat storage tank outlet temperature sensor Cooling system (clogging) 	0	0
P1117 (05–270)	Coolant Temperature Sensor Cir- cuit Low For Coolant Heat Stor- age System	 Coolant heat storage tank outlet temperature sensor Short in temperature sensor circuit ECM 	0	0

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DTC No. (See Page)	Detection Item	Trouble Area	MIL ^{*1}	Memory
P1118 (05–270)	Coolant Temperature Sensor Cir- cuit High For Coolant Heat Stor- age System	 Coolant heat storage tank outlet temperature sensor Open in temperature sensor circuit ECM 	0	0
P1120 (05–277)	Coolant Flow Control Valve Posi- tion Sensor Circuit	 Open or short in water valve position sensor circuit Water valve (Coolant flow control valve) ECM 	0	0
P1121 (<mark>05–284</mark>)	Coolant Flow Control Valve Posi- tion Sensor Circuit Stuck	Water valve (Coolant flow control valve)Cooling system (clogging)	0	0
P1122 (05–277)	Coolant Flow Control Valve Posi- tion Sensor Circuit Low	 Water valve (Coolant flow control valve) Short in WBAD (valve position signal) circuit Open in VC circuit ECM 	0	0
P1123 (05–277)	Coolant Flow Control Valve Posi- tion Sensor Circuit High	 Water valve (Coolant flow control valve) Open in E2 circuit VC and WBAD circuits are short–circuited Open in WBAD circuit ECM 	0	0
P1150 (05–290)	Coolant Path Clog Up For Cool- ant Heat Storage System	 Coolant heat storage tank outlet temperature sensor Water valve (Coolant flow control valve) Cooling system (clogging) Heat storage tank ECM 	0	0
P1151 (05–297)	Coolant Heat Storage Tank	Heat storage tank	0	0
P1455 (05–299)	Vapor Reducing Fuel Tank Sys- tem Malfunction	• Fuel Tank	0	0
P2102 (05–301)	Throttle Actuator Control Motor Circuit Low	Open or short in throttle control motor circuit Throttle control motor ECM	0	0
P2103 (05–301)	Throttle Actuator Control Motor Circuit High	 Short in throttle control motor circuit Throttle control motor Throttle valve Throttle body assembly ECM 	0	0
P2111 (05–305)	Throttle Actuator Control System Stuck Open	Throttle control motor circuit Throttle control motor Throttle body Throttle valve	0	0
P2112 (05–305)	Throttle Actuator Control System Stuck Closed	Throttle control motor circuit Throttle control motor Throttle body Throttle valve	0	0
P2118 (05–308)	Throttle Actuator Control Motor Current Range/Performance	Open in ETCS power source circuit ETCS fuse ECM	0	0
P2119 (05–312)	Throttle Actuator Control Throttle Body Range/Performance	Electric throttle control system ECM	0	0
P2135 (05–110)	Throttle/Pedal Position Sensor/ Switch "A"/"B" Voltage Correla- tion	 VTA and VTA2 circuits are short–circuited Open in VC circuit Throttle position sensor 	0	0

DTC No. (See Page)	Detection Item	Trouble Area	MIL ^{*1}	Memory
P2195 (05–314)	Oxygen (A/F) Sensor Signal Stuck Lean (Bank 1 Sensor 1)	 Open or short in A/F sensor (bank 1 sensor 1) circuit A/F sensor (bank 1 sensor 1) A/F sensor heater Integration relay A/F sensor heater and relay circuit Air induction system Fuel pressure Injector PCV hose connection ECM 	0	0
P2196 (05–314)	Oxygen (A/F) Sensor Signal Stuck Rich (Bank 1 Sensor 1)	Same as DTC P2195	0	0
P2238 (05–327)	Oxygen Sensor Pumping Cur- rent Circuit Low (for A/F sensor Bank 1 sensor 1)	 Open or short in A/F sensor (bank 1 sensor 1) A/F sensor (bank 1 sensor 1) A/F sensor heater EFI M relay (integration relay) A/F sensor heater and relay circuit ECM 	0	0
P2239 (05–327)	Oxygen Sensor Pumping Cur- rent Circuit High (for A/F sensor Bank 1 sensor 1)	Same as DTC P2238	0	0
P2252 (05–327)	Oxygen Sensor Reference Ground Circuit Low (for A/F sen- sor Bank 1 sensor1)	Same as DTC P2238	0	0
P2253 (05–327)	Oxygen Sensor Reference Ground Circuit High (for A/F sen- sor Bank 1 sensor1)	Same as DTC P2238	0	0
P2601 (05–333)	Coolant Pump Control Circuit Range/Performance	• CHS water pump • CHS water pump relay • Open or short in CHS water pump circuit • ECM	0	0
P2610 (05–344)	ECM/PCM Internal Engine Off Timer Performance	• ECM	0	0
P2A00 (05–345)	A/F Sensor Circuit Slow Re- sponse (Bank 1 Sensor 1)	 Open or short in A/F sensor (bank 1 sensor 1) circuit A/F sensor (bank 1 sensor 1) A/F sensor heater EFI M relay (integration relay) A/F sensor heater and relay circuit Air induction system Fuel pressure Injector PCV hose connection ECM 	0	0
P3190 (05–357)	Poor Engine Power	 Air induction system Throttle body Fuel pressure Engine Air flow meter Lack of fuel Engine coolant temperature sensor Crankshaft position sensor Camshaft position sensor ECM 	0	0

DTC No. (See Page)	Detection Item	Trouble Area	MIL ^{*1}	Memory
P3191 (05–357)	Engine Does Not Start	 Air induction system Throttle body Fuel pressure Engine Air flow meter Lack of fuel Engine coolant temperature sensor Crankshaft position sensor Camshaft position sensor ECM 	0	0
P3193 (05–357)	Fuel Run Out	Lack of fuel ECM	0	0
U0293 (05–364)	Lost Communication With HV ECU	Wire harness HV ECU ECM	0	0

*1: "O" ... MIL illuminates, "—" ... MIL does not illuminate.

*2: MIL illuminates or blinks

*3: This DTC indicates malfunction related to the primary circuit.