

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 "See page" under the respective DTC No. in the this chart.

DTC No. (See Page)	Detection Item	Trouble Area	*1 MIL	Memory
P0045 (05-461)	Turbo/Super Charger Boost Control Solenoid Circuit / Open	<ul style="list-style-type: none"> •VRV •Open or short in VRV circuit •ECM 	○	○
P0087 (05-463)	Fuel Rail/System Pressure – Too Low	<ul style="list-style-type: none"> •Open or short in fuel pressure sensor circuit •Fuel pressure sensor •ECM 	○	○
P0093 (05-467)	Fuel System Leak Detected – Large Leak	<ul style="list-style-type: none"> •Fuel line between supply pump and common rail •Fuel line between common rail and injector •Supply pump •Common rail •Injector (P1238 is set simultaneously) •Pressure limiter •Open or short in EDU circuit (P0200 is set simultaneously) •Open or short in injector circuit (P0200 and P1238 are set simultaneously) •EDU (P0200 is set simultaneously) •ECM 	○	○
P0095 (05-470)	Intake Air Temperature Sensor 2 Circuit	<ul style="list-style-type: none"> •Open or short in diesel turbo inlet air temperature sensor circuit •Diesel turbo inlet air temperature sensor •ECM 	○	○
P0100 (05-474)	Mass or Volume Air Flow Circuit	<ul style="list-style-type: none"> •Open or short in mass air flow meter circuit •Mass air flow meter •ECM 	○	○
P0101 (05-479)	Mass or Volume Air Flow Circuit Range/Performance Problem	<ul style="list-style-type: none"> •Mass air flow meter 	○	○
P0105 (05-480)	Manifold Absolute Pressure/Barometric Pressure Circuit	<ul style="list-style-type: none"> •Open or short in turbo pressure sensor circuit •Turbo pressure sensor •Open or short in VSV for turbo pressure sensor circuit •VSV for turbo pressure sensor •Vacuum hose is disconnected or blocked •ECM 	○	○
P0106 (05-485)	Manifold Absolute Pressure/Barometric Pressure Circuit Range/Performance Problem	<ul style="list-style-type: none"> •Manifold absolute pressure sensor 	○	○
P0110 (05-486)	Intake Air Temperature Circuit	<ul style="list-style-type: none"> •Open or short in intake air temperature sensor circuit •Intake air temperature sensor (built into mass air flow meter) •ECM 	○	○
P0115 (05-490)	Engine Coolant Temperature Circuit	<ul style="list-style-type: none"> •Open or short in engine coolant temperature sensor circuit •Engine coolant temperature sensor •ECM 	○	○
P0116 (05-494)	Engine Coolant Temperature Circuit Range/Performance Problem	<ul style="list-style-type: none"> •Engine coolant temperature sensor 	○	○
P0180 (05-495)	Fuel Temperature Sensor "A" Circuit	<ul style="list-style-type: none"> •Open or short in fuel temperature sensor circuit •Fuel temperature sensor •ECM 	○	○
P0190 (05-463)	Fuel Rail Pressure Sensor Circuit	<ul style="list-style-type: none"> •Open or short in fuel pressure sensor circuit •Fuel pressure sensor •ECM 	○	○

DTC No. (See Page)	Detection Item	Trouble Area	*1 MIL	Memory
P0200 (05-499)	Injector Circuit / Open	<ul style="list-style-type: none"> • Open or short in EDU circuit • Injector • EDU • ECM 	○	○
P0234 (05-507)	Turbo/Super Charger Overboost Condition	<ul style="list-style-type: none"> • VRV • Open or short in VRV circuit • Turbocharger 	○	○
P0299 (05-507)	Turbo/Super Charger Under-boost	<ul style="list-style-type: none"> • Vacuum hose • EGR valve • ECM 	○	○
P0335 (05-512)	Crankshaft Position Sensor "A" Circuit	<ul style="list-style-type: none"> • Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Sensor plate (crankshaft timing pulley) • ECM 	○	○
P0340 (05-515)	Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)	<ul style="list-style-type: none"> • Open or short in camshaft position sensor circuit • Camshaft position sensor • Camshaft timing pulley • ECM 	○	○
P0380 (05-518)	Glow Plug/Heater Circuit "A"	<ul style="list-style-type: none"> • Open or short in glow plug circuit • Glow fuse • Glow plug relay • Glow plug • ECM 	○	○
P0400 (05-525)	Exhaust Gas Recirculation Flow	<ul style="list-style-type: none"> • EGR valve assy • Open or short in EGR circuit 	○	○
P0403 (05-525)	Exhaust Gas Recirculation Control Circuit	<ul style="list-style-type: none"> • EGR passage • ECM 	○	○
P0488 (05-530)	Exhaust Gas Recirculation Throttle Position Control Range/Performance	<ul style="list-style-type: none"> • Open or short in intake shutter control motor circuit • Open or short in intake shutter valve fully opened switch circuit • Intake shutter • ECM 	○	○
P0500 (05-536)	Vehicle Speed Sensor "A"	<ul style="list-style-type: none"> • Open or short in speed sensor circuit • Speed sensor • Combination meter • ECM • Skid control ECU 	○	○
P0504 (05-539)	Brake Switch "A"/"B" Correlation	<ul style="list-style-type: none"> • Short in stop lamp switch signal circuit • Stop lamp switch • ECM 	—	○
P0560 (05-543)	System Voltage	<ul style="list-style-type: none"> • Open in backup power source circuit • Low battery voltage • ECM 	○	○
P0606 (05-546)	ECM/PCM Processor	<ul style="list-style-type: none"> • ECM 	—	—
P0607 (05-546)	Control Module Performance		○	○
P0622 (05-547)	Generator Field "F" Terminal Circuit	<ul style="list-style-type: none"> • Open in generator (alternator) circuit • Generator (alternator) • Drive belt • ECM 	○	○
P0627 (05-550)	Fuel Pump Control Circuit / Open	<ul style="list-style-type: none"> • Short in supply pump (suction control valve) circuit • Supply pump (suction control valve) • Supply pump (suction control valve stuck closed) • ECM 	○	○

DTC No. (See Page)	Detection Item	Trouble Area	*1 MIL	Memory
P1229 (05-553)	Fuel Pump System	<ul style="list-style-type: none"> • Short in supply pump (suction control valve) circuit • Supply pump (suction control valve) • Supply pump (suction control valve stuck closed) • ECM 	○	○
P1238 (05-557)	Injector Malfunction	<ul style="list-style-type: none"> • Injector • EDU (P0200 is set simultaneously) • Open or short in engine wire harness (P0200 is set simultaneously) • Connector connection (P0200 is set simultaneously) • Compression pressure • Valve clearance • Valve timing • ECM 	○	○
P1251 (05-507)	Turbo/Super Charger Overboost Condition (Too High)	<ul style="list-style-type: none"> • VRV • Open or short in VRV circuit • Turbocharger • Vacuum hose • EGR valve • ECM 	○	○
P1611 (05-546)	IC Circuit Malfunction	<ul style="list-style-type: none"> • ECM 	○	○
P1670 (05-561)	Correction Resistance Malfunction	<ul style="list-style-type: none"> • Injector correction resistance circuit • Injector correction resistance (built into injector) • ECM 	○	○
P2120 (05-562)	Throttle/Pedal Position Sensor/Switch "D" Circuit	<ul style="list-style-type: none"> • Open or short in accelerator pedal position sensor circuit • Accelerator pedal position sensor • ECM 	○	○
P2121 (05-567)	Throttle/Pedal Position Sensor/Switch "D" Circuit Range/Performance	<ul style="list-style-type: none"> • Accelerator pedal position sensor circuit • Accelerator pedal position sensor • ECM 	○	○
P2226 (05-480)	Barometric Pressure Circuit	<ul style="list-style-type: none"> • Open or short in turbo pressure sensor circuit • Turbo pressure sensor • Open or short in VSV for turbo pressure sensor circuit • VSV for turbo pressure sensor • Vacuum hose is disconnected or blocked • ECM 	○	○
B2799	Engine Immobilizer System Malfunction	<ul style="list-style-type: none"> • Immobilizer system 	—	○

*1: MIL (Malfunction Indicator Lamp) illuminates.