054JD–40

DIAGNOSTIC TROUBLE CODE CHART

HINT:

Parameters listed in the chart may be different than your readings depending on the type of instrument and factors.

If any DTCs are displayed during a check mode DTC check, check the circuit for the DTCs listed in the table below. For details of each DTC, refer to the page indicated.

DTC No. (See Page)	Detection Item	Trouble Area	*1 MIL	*2 Memory
P0045/34 (05–482)	Turbo/Super Charger Boost Control Solenoid Circuit / Open [Turbocharger system malfunction]	• Turbo motor driver • Open or short in turbo motor driver circuit • Turbocharger Sub–Assy • ECM	○	○
P0087/49 (05–486)	Fuel Rail/System Pressure – Too Low [Fuel pressure sensor system malfunction]	• Open or short in fuel pressure sensor circuit • Fuel pressure sensor • ECM	○	○
P0088/49 (05–495)	Fuel Rail/System Pressure – Too High [Common rail system malfunction]	• Supply pump (suction control valve) • Pressure discharge valve • Short in supply pump (suction control valve) circuit • ECM	○	○
P0093/78 (05–501)	Fuel System Leak Detected – Large Leak [Fuel leaks in common rail system]	• Fuel line between supply pump and common rail • Fuel line between common rail and each injector • Supply pump • Common rail • Injectors • Pressure discharge valve • Open or short in EDU circuit (P0200/97 set simultaneously) • Open or short in injector circuit • EDU (P0200/97 set simultaneously) • ECM	○	○
P0095/23 (05–505)	Intake Air Temperature Sensor 2 Circuit [Intake air temperature sensor (intake air connector)]	• Open or short in diesel turbo IAT sensor circuit • Diesel turbo IAT sensor • ECM	–	○
P0097/23 (05–505)	Intake Air Temperature Sensor 2 Circuit Low [Intake air temperature sensor low input (intake air connector)]	• Open or short in diesel turbo IAT sensor circuit • Diesel turbo IAT sensor • ECM	–	○
P0098/23 (05–505)	Intake Air Temperature Sensor 2 Circuit High [Intake air temperature sensor high input (intake air connector)]	• Open or short in diesel turbo IAT sensor circuit • Diesel turbo IAT sensor • ECM	–	○
P0100/31 (05–512)	Mass or Volume Air Flow Circuit [Mass air flow meter]	• Open or short in MAF meter circuit • MAF meter • ECM	○	○
P0102/31 (05–512)	Mass or Volume Air Flow Meter Circuit Low Input [Mass air flow meter low input]	• Open or short in MAF meter circuit • MAF meter • ECM	○	○
P0103/31 (05–512)	Mass or Volume Air Flow Meter Circuit High Input [Mass air flow meter high input]	• Open or short in MAF meter circuit • MAF meter • ECM	○	○
P0105/31 (05–520)	Manifold Absolute Pressure/ Barometric Pressure Circuit [Intake air pressure sensor]	• Open or short in manifold absolute pressure sensor circuit • Manifold absolute pressure sensor • Turbocharger sub–assy • EGR valve assy • ECM	○	○

DTC No. (See Page)	Detection Item	Trouble Area	*1 MIL	*2 Memory
P0107/31 (05–520)	Manifold Absolute Pressure/ Barometric Pressure Circuit Low Input [Intake air pressure sensor low input]	• Open or short in manifold absolute pressure sensor circuit • Manifold absolute pressure sensor • Turbocharger sub–assy • EGR valve assy • ECM	○	○
P0108/31 (05–520)	Manifold Absolute Pressure/ Barometric Pressure Circuit High Input [Intake air pressure sensor high input]	• Open or short in manifold absolute pressure sensor circuit • Manifold absolute pressure sensor • Turbocharger sub–assy • EGR valve assy • ECM	○	○
P0110/24 (05–526)	Intake Air Temperature Circuit [Intake air temperature sensor]	• Open or short in IAT sensor circuit • IAT sensor (built into MAF meter) • ECM	○	○
P0112/24 (05–526)	Intake Air Temperature Circuit Low Input [Intake air temperature sensor low input]	• Open or short in IAT sensor circuit • IAT sensor (built into MAF meter) • ECM	○	○
P0113/24 (05–526)	Intake Air Temperature Circuit High Input [Intake air temperature sensor high input]	• Open or short in IAT sensor circuit • IAT sensor (built into MAF meter) • ECM	○	○
P0115/22 (05–532)	Engine Coolant Temperature Circuit [Engine coolant temperature sensor]	• Open or short in ECT sensor circuit • ECT sensor • ECM	○	○
P0117/22 (05–532)	Engine Coolant Temperature Circuit Low Input [Engine coolant temperature sensor low input]	• Open or short in ECT sensor circuit • ECT sensor • ECM	○	○
P0118/22 (05–532)	Engine Coolant Temperature Circuit High Input [Engine coolant temperature sensor high input]	• Open or short in ECT sensor circuit • ECT sensor • ECM	○	○
P0168/39 (05–538)	Fuel Temperature Too High [Fuel temperature sensor rationality]	Fuel temperature sensor	○	○
P0180/39 (05–539)	Fuel Temperature Sensor "A" Circuit [Fuel temperature sensor]	• Open or short in fuel temperature sensor circuit • Fuel temperature sensor • ECM	○	○
P0182/39 (05–539)	Fuel Temperature Sensor "A" Circuit Low Input [Fuel temperature sensor low input]	• Open or short in fuel temperature sensor circuit • Fuel temperature sensor • ECM	○	○
P0183/39 (05–539)	Fuel Temperature Sensor "A" Circuit High Input [Fuel temperature sensor high input]	• Open or short in fuel temperature sensor circuit • Fuel temperature sensor • ECM	○	○
P0190/49 (05–486)	Fuel Rail Pressure Sensor Circuit [Fuel pressure sensor]	• Open or short in fuel pressure sensor circuit • Fuel pressure sensor • ECM	○	○
P0191/49 (05–546)	Fuel Rail Pressure Sensor Circuit Range/Performance [Fuel pressure sensor rationality]	Fuel pressure sensor	○	○
P0192/49 (05–486)	Fuel Rail Pressure Sensor Circuit Low Input [Fuel pressure sensor low input]	• Open or short in fuel pressure sensor circuit • Fuel pressure sensor • ECM	○	○

DTC No. (See Page)	Detection Item	Trouble Area	*1 MIL	*2 Memory
P0193/49 (05–486)	Fuel Rail Pressure Sensor Circuit High Input [Fuel pressure sensor high input]	• Open or short in fuel pressure sensor circuit • Fuel pressure sensor • ECM	○	○
P0200/97 (05–547)	Injector Circuit / Open [EDU system for injector malfunction]	• Open or short in EDU circuit • Injector • EDU • ECM	○	○
P0234/34 (05–555)	Turbo/Super Charger Overboost Condition [Turbocharger system malfunction]	• Turbocharger sub–assy • Turbo motor driver • Manifold absolute pressure sensor • MAF meter • EGR valve stuck closed • Exhaust system and intake system are modified or clogged • ECM	○	○
P0299/34 (05–555)	Turbo/Super Charger Underboost [Turbocharger system malfunction]	• Turbocharger sub–assy • Turbo motor driver • Manifold absolute pressure sensor • MAF meter • EGR valve stuck open • Manifold absolute pressure sensor (hose disconnected) • Exhaust system and intake system are modified or clogged • ECM	—	○
P0335/12, 13 (05–560)	Crankshaft Position Sensor "A" Circuit [Crankshaft position sensor]	• Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Crankshaft position sensor plate No. 1 • ECM	○	○
P0339/13 (05–560)	Crankshaft Position Sensor "A" Circuit Intermittent [Crankshaft position sensor intermittent problem]	• Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Crankshaft position sensor plate No. 1 • ECM	—	○
P0340/12 (05–564)	Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor) [Camshaft position sensor]	• Open or short in camshaft position sensor circuit • Camshaft position sensor • Pump drive shaft pulley • ECM	○	○
P0400/71 (05–564)	Exhaust Gas Recirculation Flow [EGR system malfunction]	• EGR valve stuck • EGR valve does not move smoothly • Open or short in E–VRV for EGR circuit • Open or short in EGR valve position sensor circuit • EGR valve position sensor • Vacuum pump • Vacuum hose • ECM	○	○
P0405/96 (05–573)	Exhaust Gas Recirculation Sensor "A" Circuit Low [EGR lift sensor malfunction]	• Open or short in EGR valve position sensor circuit • EGR valve position sensor • ECM	–	○
P0406/96 (05–573)	Exhaust Gas Recirculation Sensor "A" Circuit High [EGR lift sensor malfunction]	• Open or short in EGR valve position sensor circuit • EGR valve position sensor • ECM	–	○
P0488/15 (05–576)	Exhaust Gas Recirculation Throttle Position Control Range/ Performance [Diesel throttle]	• Open or short in intake shutter control motor circuit • Open or short in intake shutter valve fully opened switch circuit • Intake shutter • ECM	○	○
P0500/42 (05–582)	Vehicle Speed Sensor "A" [Vehicle speed sensor]	• Open or short in speed sensor circuit • Speed sensor • Combination meter • ECM	○	○
P0504/51 (05–586)	Brake Switch "A"/"B" Correlation [Stop lamp rationality]	• Short in stop lamp switch signal circuit • Stop lamp switch • ECM	—	○

DTC No. (See Page)	Detection Item	Trouble Area	*1 MIL	*2 Memory
P0607/89 (05–592)	Control Module Performance [ECM]	ECM	○	○
P0627/78 (05–593)	Fuel Pump Control Circuit / Open [Common rail system malfunction]	• Open or short in suction control valve circuit • Suction control valve • ECM	○	○
P1229/78 (05–495)	Fuel Pump System [Common rail system malfunction]	• Short in supply pump (suction control valve) circuit • Supply pump (suction control valve) • ECM	○	○
P1251/34 (05–555)	Step Motor For Turbocharger Control Circuit (Intermittent) [Turbocharger system malfunction]	• Turbo motor driver • Turbocharger sub–assy • Manifold absolute pressure sensor • MAF meter • EGR valve assy • Exhaust system and intake system are modified or clogged • ECM	○	○
P1271 (05–596)	Fuel Regulator Circuit Malfunction (EDU Drive) [EDU system for pressure discharge valve malfunction]	• Open or short in pressure discharge valve circuit • Open or short in pressure discharge valve itself • EDU • ECM	○	○
P1272 (05–596)	Fuel Pressure Regulator Malfunction [Pressure discharge valve]	• Open or short in pressure discharge valve circuit (DTC P1271 set simultaneously) • Pressure discharge valve • Supply pump • ECM	○	○
P1601/89 (05–606)	Injector Correction Circuit (EEPROM) [ECM]	• Injector compensation code • ECM	○	○
P1611/17 (05–592)	Run Pulse [ECM]	ECM	○	○
P2008/58 (05–608)	Intake Manifold Runner Control Circuit / Open (Bank 1) [Swirl control system malfunction]	• VSV for swirl control valve • Open or short in VSV for swirl control valve circuit • Intake manifoid (swirl control valve) • EGR valve stuck open • MAF meter • ECM	○	○
P2120/19 (05–617)	Throttle/Pedal Position Sensor/ Switch "D" Circuit [Accelerator pedal position sensor (sensor1)]	• Accelerator pedal position sensor • Accelerator pedal • Accelerator pedal rod (arm) deformed • ECM	○	○
P2121/19 (05–617)	Throttle/Pedal Position Sensor/ Switch "D" Circuit Range/Performance [Accelerator pedal position sensor rationality (sensor1)]	• Accelerator pedal position sensor circuit • Accelerator pedal position sensor • ECM	○	○
P2122/19 (05–617)	Throttle/Pedal Position Sensor/ Switch "D" Circuit Low Input [Accelerator pedal position sensor low input (sensor1)]	• Accelerator pedal position sensor • Open in VCPA circuit • VPA circuit open or ground short • Accelerator pedal • Accelerator pedal rod (arm) deformed • ECM	○	○
P2123/19 (05–617)	Throttle/Pedal Position Sensor/ Switch "D" Circuit High Input [Accelerator pedal position sensor high input (sensor1)]	• Accelerator pedal position sensor • Open in EPA circuit • Accelerator pedal • Accelerator pedal rod (arm) deformed • ECM	○	○

DTC No. (See Page)	Detection Item	Trouble Area	*1 MIL	*2 Memory
P2125/19 (05–617)	Throttle/Pedal Position Sensor/ Switch "E" Circuit [Accelerator pedal position sensor (sensor2)]	• Accelerator pedal position sensor • Accelerator pedal • Accelerator pedal rod (arm) deformed • ECM	○	○
P2127/19 (05–617)	Throttle/Pedal Position Sensor/ Switch "E" Circuit Low Input [Accelerator pedal position sensor low input (sensor2)]	• Accelerator pedal position sensor • Open in VCP2 circuit • VPA2 circuit open or ground short • Accelerator pedal • Accelerator pedal rod (arm) deformed • ECM	○	○
P2128/19 (05–617)	Throttle/Pedal Position Sensor/ Switch "E" Circuit High Input [Accelerator pedal position sensor high input (sensor2)]	• Accelerator pedal position sensor • Open in EPA2 circuit • Accelerator pedal • Accelerator pedal rod (arm) deformed • ECM	○	○
P2138/19 (05–617)	Throttle/Pedal Position Sensor/ Switch "D"/"E" Voltage Correlation [Accelerator pedal position sensor malfunction]	• VPA and VPA2 circuit are short circuited • Accelerator pedal position sensor • Accelerator pedal • Accelerator pedal rod (arm) deformed • ECM	○	○
P2226/A5*3 (05–628)	Barometric Pressure Circuit [ECM]	ECM	○	○
P2228/A5*3 (05–628)	Barometric Pressure Circuit Low Input [ECM]	ECM	○	○
P2229/A5*3 (05–628)	Barometric Pressure Circuit High Input [ECM]	ECM	○	○
U0001/A2*3 (05–629)		• Open or short in ECT ECU and ECM circuit • ECT ECU • ECM	○	○
B2799/99	Engine Immobiliser System Malfunction	Immobilizer system	—	○

HINT:

*1: "○": MIL (Malfunction Indicator Lamp) illuminates.
"—": MIL does not illuminate.

*2: "○": DTC is stored in the ECM.
"—": DTC is not stored in the ECM.

*3: "A" in the above table indicates that the MIL flashes 10 times.