

## Fuel and Emissions Systems DTC Troubleshooting Index

## DTC Troubleshooting Index

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NOTE: The above DTCs are indicated when the PGM-FI system is selected with the HDS.

DTC	Two Drive Cycle Detection	Detection Item	MIL
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<a href="#">P011B</a>	○	Intake Air Temperature (IAT) Sensor 1 Circuit Range/Performance Problem	ON
<a href="#">P0121</a>	○	Throttle Position (TP) Sensor A Range/Performance Problem	ON
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<a href="#">P0123</a>	-----	Throttle Position (TP) Sensor A Circuit High Voltage	ON
<a href="#">P0127</a>	○	Intake Air Temperature (IAT) Sensor Too High	ON
<a href="#">P0128</a>	○	Cooling System Malfunction	ON
<a href="#">P0131</a>	○	Air Fuel Ratio (A/F) Sensor (Sensor 1) Circuit Low Voltage	ON
<a href="#">P0132</a>	○	Air Fuel Ratio (A/F) Sensor (Sensor 1) Circuit High Voltage	ON
<a href="#">P0133</a>	○	Air Fuel Ratio (A/F) Sensor (Sensor 1) Malfunction/Slow Response	ON
<a href="#">P0134</a>	○	Air Fuel Ratio (A/F) Sensor (Sensor 1) Heater System Malfunction	ON
<a href="#">P0135</a>	○	Air Fuel Ratio (A/F) Sensor (Sensor 1) Heater Circuit Malfunction	ON
<a href="#">P0136</a>	○	Secondary Heated Oxygen Sensor (Secondary HO2S (Sensor 2)) Circuit Malfunction	ON
<a href="#">P0137</a>	○	Secondary Heated Oxygen Sensor (Secondary HO2S (Sensor 2)) Circuit Low Voltage	ON
<a href="#">P0138</a>	○	Secondary Heated Oxygen Sensor (Secondary HO2S (Sensor 2)) Circuit High Voltage	ON
<a href="#">P0139</a>	○	Secondary Heated Oxygen Sensor (Secondary HO2S (Sensor 2)) Slow Response	ON
<a href="#">P0140</a>	○	Secondary Heated Oxygen Sensor (Secondary HO2S (Sensor 2)) Circuit No Activity	ON
<a href="#">P0141</a>	○	Secondary Heated Oxygen Sensor (Secondary HO2S (Sensor 2)) Heater Circuit Malfunction	ON
<a href="#">P0171</a>	○	Fuel System Too Lean	ON
<a href="#">P0172</a>	○	Fuel System Too Rich	ON
<a href="#">P0190</a>	-----	Fuel Rail Pressure Sensor Circuit Out of Range	ON
<a href="#">P0191</a>	-----	Fuel Rail Pressure Sensor Circuit Range/Performance Problem	ON
<a href="#">P0192</a>	-----	Fuel Rail Pressure Sensor Circuit Low Voltage	ON
<a href="#">P0193</a>	-----	Fuel Rail Pressure Sensor Circuit High Voltage	ON
<a href="#">P0201</a>	-----	No. 1 Cylinder Injector Circuit Malfunction	ON
<a href="#">P0202</a>	-----	No. 2 Cylinder Injector Circuit Malfunction	ON
<a href="#">P0203</a>	-----	No. 3 Cylinder Injector Circuit Malfunction	ON
<a href="#">P0204</a>	-----	No. 4 Cylinder Injector Circuit Malfunction	ON
<a href="#">P0221</a>	○	Throttle Position (TP) Sensor B Range/Performance Problem	ON
<a href="#">P0222</a>	-----	Throttle Position (TP) Sensor B Circuit Low Voltage	ON
<a href="#">P0223</a>	-----	Throttle Position (TP) Sensor B Circuit High Voltage	ON

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DTC	Two Drive Cycle Detection	Detection Item	MIL
<a href="#">P0230</a>	○	Fuel Pump Primary Circuit	OFF
<a href="#">P0234</a>	-----	Turbocharger Overboost Problem	ON
<a href="#">P0236</a>	-----	Turbocharger Boost Sensor Circuit Range/Performance Problem	ON
<a href="#">P0237</a>	-----	Turbocharger Boost Sensor Circuit Low Voltage	ON
<a href="#">P0238</a>	-----	Turbocharger Boost Sensor Circuit High Voltage	ON
<a href="#">P026B</a>	○	Injector Performance Problem	OFF
<a href="#">P0299</a>	-----	Turbocharger Underboost Problem	ON
<a href="#">P02CC</a>	○	No. 1 Cylinder Injector Offset Learning Exceeds Minimum Limit	ON
<a href="#">P02CD</a>	○	No. 1 Cylinder Injector Offset Learning Exceeds Maximum Limit	ON
<a href="#">P02CE</a>	○	No. 2 Cylinder Injector Offset Learning Exceeds Minimum Limit	ON
<a href="#">P02CF</a>	○	No. 2 Cylinder Injector Offset Learning Exceeds Maximum Limit	ON
<a href="#">P02D0</a>	○	No. 3 Cylinder Injector Offset Learning Exceeds Minimum Limit	ON
<a href="#">P02D1</a>	○	No. 3 Cylinder Injector Offset Learning Exceeds Maximum Limit	ON
<a href="#">P02D2</a>	○	No. 4 Cylinder Injector Offset Learning Exceeds Minimum Limit	ON
<a href="#">P02D3</a>	○	No. 4 Cylinder Injector Offset Learning Exceeds Maximum Limit	ON
<a href="#">P0300</a>	○	Random Misfire Detected	ON
<a href="#">P0301</a>	○	No. 1 Cylinder Misfire Detected	ON
<a href="#">P0302</a>	○	No. 2 Cylinder Misfire Detected	ON
<a href="#">P0303</a>	○	No. 3 Cylinder Misfire Detected	ON
<a href="#">P0304</a>	○	No. 4 Cylinder Misfire Detected	ON
<a href="#">P0326</a>	○	Knock Sensor Malfunction	ON
<a href="#">P0327</a>	○	Knock Sensor Circuit Low Voltage	ON
<a href="#">P0328</a>	○	Knock Sensor Circuit High Voltage	ON
<a href="#">P0335</a>	-----	Crankshaft Position (CKP) Sensor No Signal	ON
<a href="#">P0339</a>	-----	Crankshaft Position (CKP) Sensor Circuit Intermittent Interruption	ON
<a href="#">P0340</a>	-----	Camshaft Position (CMP) Sensor A No Signal	ON
<a href="#">P0344</a>	-----	Camshaft Position (CMP) Sensor A Circuit Intermittent Interruption	ON
<a href="#">P0351</a>	-----	No. 1 Cylinder Ignition Coil Circuit Malfunction	ON
<a href="#">P0352</a>	-----	No. 2 Cylinder Ignition Coil Circuit Malfunction	ON
<a href="#">P0353</a>	-----	No. 3 Cylinder Ignition Coil Circuit Malfunction	ON
<a href="#">P0354</a>	-----	No. 4 Cylinder Ignition Coil Circuit Malfunction	ON
<a href="#">P0365</a>	-----	Camshaft Position (CMP) Sensor B Circuit Intermittent High Voltage	ON
<a href="#">P0369</a>	-----	Camshaft Position (CMP) Sensor B Circuit Intermittent Interruption	ON
<a href="#">P0420</a>	○	Catalyst System Efficiency Below Threshold	ON
<a href="#">P0442</a>	○	Evaporative Emission (EVAP) System Very Small Leak Detected	ON
<a href="#">P0443</a>	○	Evaporative Emission (EVAP) Canister Purge Valve Circuit Malfunction	ON

NOTE: The above DTCs are indicated when the PGM-FI system is selected with the HDS.

DTC	Two Drive Cycle Detection	Detection Item	MIL
<a href="#">P0449</a>	○	Evaporative Emission (EVAP) Canister Vent Shut Valve Circuit Open	ON
<a href="#">P0451</a>	○	Fuel Tank Pressure (FTP) Sensor Circuit Range/Performance Problem	ON
<a href="#">P0452</a>	○	Fuel Tank Pressure (FTP) Sensor Circuit Low Voltage	ON
<a href="#">P0453</a>	○	Fuel Tank Pressure (FTP) Sensor Circuit High Voltage	ON
<a href="#">P0455</a>	○	Evaporative Emission (EVAP) System Large Leak Detected	ON
<a href="#">P0456</a>	-----	Evaporative Emission (EVAP) System Very Small Leak Detected	ON
<a href="#">P0461</a>	○	Fuel Level Sensor (Fuel Gauge Sending Unit) Circuit Range/Performance Problem	OFF
<a href="#">P0462</a>	○	Fuel Level Sensor (Fuel Gauge Sending Unit) Circuit Low Voltage	OFF
<a href="#">P0463</a>	○	Fuel Level Sensor (Fuel Gauge Sending Unit) Circuit High Voltage	OFF
<a href="#">P0496</a>	○	Evaporative Emission (EVAP) System High Purge Flow Detected	ON
<a href="#">P0497</a>	○	Evaporative Emission (EVAP) System Low Purge Flow Detected	ON
<a href="#">P0498</a>	○	Evaporative Emission (EVAP) Canister Vent Shut Valve Circuit Low Voltage	ON
<a href="#">P0499</a>	○	Evaporative Emission (EVAP) Canister Vent Shut Valve Circuit High Voltage	ON
<a href="#">P04F0</a>	○	Evaporative Emission (EVAP) System Incorrect Purge Flow Detected	ON
<a href="#">P0501</a>	○	Output Shaft Speed Sensor Circuit Out of Range High	ON
<a href="#">P0506</a>	○	Idle Control System RPM Lower Than Expected	ON
<a href="#">P0507</a>	○	Idle Control System RPM Higher Than Expected	ON
<a href="#">P050A</a>	○	Cold Start Idle Air Control System Performance Problem	ON
<a href="#">P050B</a>	○	Cold Start Ignition Timing Control System Performance Problem	ON
<a href="#">P0522</a>	○	Rocker Arm Oil Pressure Sensor Circuit Low Voltage	OFF
<a href="#">P0523</a>	○	Rocker Arm Oil Pressure Sensor Circuit High Voltage	OFF
<a href="#">P0532</a>	○	A/C Pressure Sensor Circuit Low Voltage	OFF
<a href="#">P0533</a>	○	A/C Pressure Sensor Circuit High Voltage	OFF
<a href="#">P053F</a>	○	Fuel Rail Pressure Performance	ON
<a href="#">P0560</a>	○	Powertrain Control Module (PCM) Power Source Circuit Unexpected Voltage	ON
<a href="#">P0562</a>	○	Charging System Low Voltage	OFF
<a href="#">P0571</a>	○	Brake Pedal Position Switch Circuit Malfunction	OFF
<a href="#">P0606</a>	○	Powertrain Control Module (PCM) Processor Malfunction	ON
<a href="#">P0607</a>	-----	Powertrain Control Module (PCM) Internal Circuit Malfunction	ON
<a href="#">P060C</a>	-----	Powertrain Control Module (PCM) Internal Control Module Malfunction	ON
<a href="#">P060D</a>	-----	Powertrain Control Module (PCM) Internal Control Module Malfunction	ON
<a href="#">P0615</a>	○	Starter Cut Relay Diagnosis Circuit Malfunction	OFF
<a href="#">P0616</a>	○	Starter Cut Relay Diagnosis Circuit Low Voltage	OFF
<a href="#">P0617</a>	○	Starter Cut Relay Diagnosis Circuit High Voltage	OFF
<a href="#">P0630</a>	-----	VIN Not Programmed or Mismatch	ON
<a href="#">P0641</a>	-----	Sensor Reference Voltage A Malfunction	ON

NOTE: The above DTCs are indicated when the PGM-FI system is selected with the HDS.

DTC	Two Drive Cycle Detection	Detection Item	MIL
<a href="#">P065A</a>	○	ACG No Charging Malfunction	OFF
<a href="#">P0685</a>	○	A/F Sensor (Sensor 1) Heater Power Source Circuit Open	ON
<a href="#">P0686</a>	○	A/F Sensor (Sensor 1) Heater Power Source Circuit Short to Ground	ON
<a href="#">P0687</a>	○	A/F Sensor (Sensor 1) Heater Power Source Circuit Short to Power	ON
<a href="#">P068A</a>	○	Powertrain Control Module (PCM) Power Source Circuit Unexpected Voltage	ON
<a href="#">P068B</a>	○	Powertrain Control Module (PCM) Power Source Circuit Unexpected Voltage	OFF
<a href="#">P0703</a>	○	Brake Pedal Position Switch (NC) Malfunction	OFF
<a href="#">P0715</a>	○	Input Shaft (Mainshaft) Speed Sensor Circuit Malfunction	OFF
<a href="#">P0720</a>	○	Output Shaft (Countershaft) Speed Sensor Circuit Malfunction	ON
<a href="#">P0831</a>	○	Clutch Pedal Position Switch A Circuit High Voltage	OFF
<a href="#">P0850</a>	○	Neutral Position Sensor A/B Incorrect Voltage Correlation	OFF
<a href="#">P0851</a>	○	Neutral Position Sensor A Circuit Low Voltage	OFF
<a href="#">P0852</a>	○	Neutral Position Sensor A Circuit High Voltage	OFF
<a href="#">P134B</a>	○	Crankshaft Signal Diagnose	OFF
<a href="#">P1549</a>	○	Charging System High Voltage	OFF
<a href="#">P154A</a>	○	Battery Sensor Internal Failure	OFF
<a href="#">P1683</a>	-----	Throttle Valve Default Position Spring Performance Problem	ON
<a href="#">P1684</a>	-----	Throttle Valve Return Spring Performance Problem	ON
<a href="#">P16BB</a>	○	Alternator B Terminal Circuit Low Voltage	OFF
<a href="#">P16E2</a>	○	PGM-FI-ACG LIN Communication Error	OFF
<a href="#">P16E3</a>	○	PGM-FI-Battery Sensor LIN Communication Error	OFF
<a href="#">P16E4</a>	○	ACG High-temperature	OFF
<a href="#">P16F3</a>	○	Starter Cut Relay 1 Control Circuit Low Voltage	OFF
<a href="#">P16F4</a>	○	Starter Cut Relay 2 Control Circuit Low Voltage	OFF
<a href="#">P16F5</a>	○	Starter Cut Relay 1 Control Circuit High Voltage	OFF
<a href="#">P16F6</a>	○	Starter Cut Relay 2 Control Circuit High Voltage	OFF
<a href="#">P1701</a>	○	Back-Up Light Switch Malfunction	OFF
<a href="#">P1707</a>	○	Neutral Position Sensor B Circuit Low Voltage	OFF
<a href="#">P1708</a>	○	Neutral Position Sensor B Circuit High Voltage	OFF
<a href="#">P2096</a>	○	Post Catalyst Fuel Trim System Too Lean	ON
<a href="#">P2097</a>	○	Post Catalyst Fuel Trim System Too Rich	ON
<a href="#">P2101</a>	-----	Electronic Throttle Control System (ETCS) Malfunction	ON
<a href="#">P2118</a>	-----	Throttle Actuator Current Range/Performance Problem	ON
<a href="#">P2119</a>	-----	Throttle Actuator Range	ON
<a href="#">P2121</a>	○	Accelerator Pedal Position (APP) Sensor A (Throttle Position (TP) Sensor D) Out of Range	ON
<a href="#">P2122</a>	-----	Accelerator Pedal Position (APP) Sensor A (Throttle Position (TP) Sensor D) Circuit Low Voltage	ON
<a href="#">P2123</a>	-----	Accelerator Pedal Position (APP) Sensor A (Throttle Position (TP) Sensor D) Circuit High Voltage	ON
<a href="#">P2126</a>	○	Accelerator Pedal Position (APP) Sensor B (Throttle Position (TP) Sensor E) Out of Range	ON
<a href="#">P2127</a>	-----	Accelerator Pedal Position (APP) Sensor B (Throttle Position (TP) Sensor E) Circuit Low Voltage	ON
<a href="#">P2128</a>	-----	Accelerator Pedal Position (APP) Sensor B (Throttle Position (TP) Sensor E) Circuit High Voltage	ON

NOTE: The above DTCs are indicated when the PGM-FI system is selected with the HDS.

DTC	Two Drive Cycle Detection	Detection Item	MIL
<a href="#">P2135</a>	-----	Throttle Position (TP) Sensor A/B Incorrect Voltage Correlation	ON
<a href="#">P2138</a>	-----	Accelerator Pedal Position (APP) Sensor A/B (Throttle Position (TP) Sensor D/E) Incorrect Voltage Correlation	ON
<a href="#">P2176</a>	-----	Throttle Actuator Control System Idle Position Not Learned	ON
<a href="#">P2182</a>	○	Engine Coolant Temperature (ECT) Sensor 2 Out of Range	ON
<a href="#">P2183</a>	○	Engine Coolant Temperature (ECT) Sensor 2 Circuit Range/Performance Problem	ON
<a href="#">P2184</a>	○	Engine Coolant Temperature (ECT) Sensor 2 Circuit Low Voltage	ON
<a href="#">P2185</a>	○	Engine Coolant Temperature (ECT) Sensor 2 Circuit High Voltage	ON
<a href="#">P2195</a>	○	Air Fuel Ratio (A/F) Sensor (Sensor 1) Signal Stuck Lean	ON
<a href="#">P2196</a>	○	O <sub>2</sub> Sensor Signal Biased/Stuck Rich	ON
<a href="#">P2199</a>	○	Intake Air Temperature (IAT) Sensor 1-2 Incorrect Correlation	ON
<a href="#">P219C</a>	○	No. 1 Cylinder Air-Fuel Ratio Variation	ON
<a href="#">P219D</a>	○	No. 2 Cylinder Air-Fuel Ratio Variation	ON
<a href="#">P219E</a>	○	No. 3 Cylinder Air-Fuel Ratio Variation	ON
<a href="#">P219F</a>	○	No. 4 Cylinder Air-Fuel Ratio Variation	ON
<a href="#">P2227</a>	-----	Barometric Pressure (BARO) Sensor Circuit Out of Range High	ON
<a href="#">P2228</a>	-----	Barometric Pressure (BARO) Sensor Circuit Low Voltage	ON
<a href="#">P2229</a>	-----	Barometric Pressure (BARO) Sensor Circuit High Voltage	ON
<a href="#">P2232</a>	○	Secondary Heated Oxygen Sensor (Secondary HO <sub>2</sub> S (Sensor 2)) Circuit Out of Range High	ON
<a href="#">P2237</a>	○	Air Fuel Ratio (A/F) Sensor (Sensor 1) Malfunction	ON
<a href="#">P2238</a>	○	Air Fuel Ratio (A/F) Sensor (Sensor 1) Malfunction	ON
<a href="#">P2243</a>	○	Air Fuel Ratio (A/F) Sensor (Sensor 1) VCENT Circuit High Voltage	ON
<a href="#">P2251</a>	○	Air Fuel Ratio (A/F) Sensor (Sensor 1) VS Circuit High Voltage	ON
<a href="#">P2261</a>	○	Turbocharger Bypass Control Valve Stuck Closed	ON
<a href="#">P2270</a>	○	Secondary Heated Oxygen Sensor (Secondary HO <sub>2</sub> S (Sensor 2)) Circuit Signal Stuck Lean	ON
<a href="#">P2271</a>	○	Secondary Heated Oxygen Sensor (Secondary HO <sub>2</sub> S (Sensor 2)) Circuit Signal Stuck Rich	ON
<a href="#">P2279</a>	○	Intake Air System Leak	ON
<a href="#">P2422</a>	○	Evaporative Emission (EVAP) Canister Vent Shut Valve Stuck Closed Malfunction	ON
<a href="#">P2563</a>	○	Turbocharger Wastegate Control Actuator Position Sensor Out of Range	ON
<a href="#">P2564</a>	-----	Turbocharger Wastegate Control Actuator Position Sensor Circuit Low Voltage	ON
<a href="#">P2565</a>	-----	Turbocharger Wastegate Control Actuator Position Sensor Circuit High Voltage	ON
<a href="#">P2610</a>	○	Powertrain Control Module (PCM) Ignition Off Internal Timer Malfunction	ON
<a href="#">P2623</a>	-----	High Pressure Fuel Pump Spill Valve Malfunction	ON
<a href="#">P2626</a>	○	Air Fuel Ratio (A/F) Sensor (Sensor 1) Circuit (LAF-CA, LAF-CP) Open Malfunction	ON
<a href="#">P2650</a>	-----	Rocker Arm Oil Control Solenoid Circuit Malfunction	ON
<a href="#">P2651</a>	-----	Rocker Arm Oil Pressure Switch Performance/Stuck off	ON
<a href="#">P2652</a>	-----	Rocker Arm Oil Pressure Switch Stuck on	ON

NOTE: The above DTCs are indicated when the PGM-FI system is selected with the HDS.

DTC	Two Drive Cycle Detection	Detection Item	MIL
<a href="#">P2653</a>	-----	Rocker Arm Oil Control Solenoid Circuit Low Voltage	ON
<a href="#">P2654</a>	-----	Rocker Arm Oil Control Solenoid Circuit High Voltage	ON
<a href="#">U0029</a>	-----	F-CAN Malfunction (BUS-OFF (Powertrain Control Module (PCM)))	ON
<a href="#">U0122</a>	○	F-CAN Malfunction (Powertrain Control Module (PCM)-VSA Modulator-Control Unit)	OFF
<a href="#">U0128</a>	○	F-CAN Malfunction (Powertrain Control Module (PCM)-Electric Parking Brake Control Unit)	OFF
<a href="#">U0131</a>	○	F-CAN Malfunction (Powertrain Control Module (PCM)-EPS Control Unit)	OFF
<a href="#">U0151</a>	○	F-CAN Malfunction (Powertrain Control Module (PCM)-SRS Unit)	OFF
<a href="#">U0155</a>	-----	F-CAN Malfunction (Powertrain Control Module (PCM)-Gauge Control Module)	ON
<a href="#">U129E</a>	○	F-CAN Malfunction (Powertrain Control Module (PCM)-Power Control Unit (PCU))	OFF

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