

2010 ENGINE PERFORMANCE

Engine Controls and Fuel - 2.8L, 3.0L, 3.2L, or 3.6L - Equinox & Terrain

DIAGNOSTIC CODE INDEX

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DTC	Description
<u>DTC P0010, P0013, P0020, or P0023 (LF1, LFW)</u>	P0010: Intake Camshaft Position Actuator Solenoid Valve Control Circuit Bank 1 P0013: Exhaust Camshaft Position Actuator Solenoid Valve Control Circuit Bank 1 P0020: Intake Camshaft Position Actuator Solenoid Valve Control Circuit Bank 2 P0023: Exhaust Camshaft Position Actuator Solenoid Valve Control Circuit Bank 2
<u>DTC P0011, P0014, P0021, or P0024 (LF1, LFW)</u>	P0011: Intake Camshaft Position System Performance Bank 1 P0014: Exhaust Camshaft Position System Performance Bank 1 P0021: Intake Camshaft Position System Performance Bank 2 P0024: Exhaust Camshaft Position System Performance Bank 2
<u>DTC P0016, P0017, P0018, or P0019 (LF1, LFW)</u>	P0016: Crankshaft Position - Intake Camshaft Position Not Plausible Bank 1 P0017: Crankshaft Position - Exhaust Camshaft Position Not Plausible Bank 1 P0018: Crankshaft Position - Intake Camshaft Position Not Plausible Bank 2 P0019: Crankshaft Position - Exhaust Camshaft Position Not Plausible Bank 2
<u>DTC P0030, P0036, P0050, P0053, P0054, P0056, P0059, P0060, P0135, P0141, P0155, or P0161 (LF1)</u>	P0030: HO2S Heater Control Circuit Bank 1 Sensor 1 P0036: HO2S Heater Control Circuit Bank 1 Sensor 2 P0050: HO2S Heater Control Circuit Bank 2 Sensor 1 P0053: HO2S Heater Resistance Bank 1 Sensor 1 P0054: HO2S Heater Resistance Bank 1 Sensor 2 P0056: HO2S Heater Control Circuit Bank 2 Sensor 2 P0059: HO2S Heater Resistance Bank 2 Sensor 1 P0060: HO2S Heater Resistance Bank 2 Sensor 2 P0135: HO2S Heater Performance Bank 1 Sensor 1 P0141: HO2S Heater Performance Bank 1 Sensor 2 P0155: HO2S Heater Performance Bank 2 Sensor 1 P0161: HO2S Heater Performance Bank 2 Sensor 2
<u>DTC P0068 or P1101</u>	P0068: Throttle Body Airflow Performance P1101: Intake Air Flow System Performance
<u>DTC P0089, P00C6, P228C, or P228D</u>	P0089: Fuel Pressure Regulator Performance P00C6: Fuel Rail Pressure Low During Engine Cranking P228C: Fuel Pressure Regulator 1 Control Performance - Low Pressure P228D: Fuel Pressure Regulator 1 Control Performance - High Pressure

<u>DTC P0090-P0092, P00C8, P00C9, or P00CA</u>	P0090: Fuel Pressure Regulator Control Circuit P0091: Fuel Pressure Regulator Control Circuit Low Voltage P0092: Fuel Pressure Regulator Control Circuit High Voltage P00C8: Fuel Pressure Regulator High Control Circuit P00C9: Fuel Pressure Regulator High Control Circuit Low Voltage P00CA: Fuel Pressure Regulator High Control Circuit High Voltage
<u>DTC P0101</u>	P0101: Mass Air Flow (MAF) Sensor Performance
<u>DTC P0102 or P0103</u>	P0102: Mass Air Flow (MAF) Sensor Circuit Low Frequency P0103: Mass Air Flow (MAF) Sensor Circuit High Frequency
<u>DTC P0106 (LF1)</u>	P0106: Manifold Absolute Pressure (MAP) Sensor Performance
<u>DTC P0107 or P0108 (w/LF1)</u>	P0107: Manifold Absolute Pressure (MAP) Sensor Circuit Low Voltage P0108: Manifold Absolute Pressure (MAP) Sensor Circuit High Voltage
<u>DTC P0112, P0113, or P0114</u>	P0112: Intake Air Temperature (IAT) Sensor Circuit Low Voltage P0113: Intake Air Temperature (IAT) Sensor Circuit High Voltage P0114: Intake Air Temperature (IAT) Sensor Circuit Intermittent
<u>DTC P0116 (LF1)</u>	P0116: Engine Coolant Temperature (ECT) Sensor Performance
<u>DTC P0117 or P0118 (w/LF1)</u>	P0117: Engine Coolant Temperature (ECT) Sensor Circuit Low Voltage P0118: Engine Coolant Temperature (ECT) Sensor Circuit High Voltage
<u>DTC P0121-P0123, P0222, P0223, or P2135 (LF1, LFW)</u>	P0121: Throttle Position Sensor Performance P0122: Throttle Position Sensor 1 Circuit Low Voltage P0123: Throttle Position Sensor 1 Circuit High Voltage P0222: Throttle Position Sensor 2 Circuit Low Voltage P0223: Throttle Position Sensor 2 Circuit High Voltage P2135: Throttle Position Sensors 1-2 Not Plausible
<u>DTC P0128 (w/LF1)</u>	P0128: Engine Coolant Temperature (ECT) Below Thermostat Regulating Temperature
<u>DTC P0131, P0132, P0137, P0138, P0151, P0152, P0157, P0158, P2A00, P2A01, P2A03, or P2A04 (LF1)</u>	P0131: HO2S Circuit Low Voltage Bank 1 Sensor 1 P0132: HO2S Circuit High Voltage Bank 1 Sensor 1 P0137: HO2S Circuit Low Voltage Bank 1 Sensor 2 P0138: HO2S Circuit High Voltage Bank 1 Sensor 2 P0151: HO2S Circuit Low Voltage Bank 2 Sensor 1 P0152: HO2S Circuit High Voltage Bank 2 Sensor 1 P0157: HO2S Circuit Low Voltage Bank 2 Sensor 2 P0158: HO2S Circuit High Voltage Bank 2 Sensor 2 P2A00: HO2S Circuit Closed Loop Performance Bank 1 Sensor 1 P2A03: HO2S Circuit Closed Loop Performance Bank 2 Sensor 1
<u>DTC P0133, P013A-P013F, P014A, P014B, P0153, P1133, or P1153 (LF1)</u>	P0133: HO2S Slow Response Bank 1 Sensor 1 P013A: HO2S Slow Response Rich to Lean Bank 1 Sensor 2 P013B: HO2S Slow Response Lean to Rich Bank 1 Sensor 2 P013C: HO2S Slow Response Rich to Lean Bank 2 Sensor 2 P013D: HO2S Slow Response Lean to Rich Bank 2 Sensor 2 P013E: HO2S Delayed Response Rich to Lean Bank 1 Sensor 2 P013F: HO2S Delayed Response Lean to Rich Bank 1 Sensor 2 P014A: HO2S Delayed Response Rich to Lean Bank 2 Sensor 2 P014B: HO2S Delayed Response Lean to Rich Bank 2 Sensor 2 P0153: HO2S Slow Response Bank 2 Sensor 1

	P1133: HO2S Insufficient Switching Bank 1 Sensor 1 P1153: HO2S Insufficient Switching Bank 2 Sensor 1
<u>DTC P0134, P0140, P0154, or P0160 (LF1)</u>	P0134: HO2S Circuit Insufficient Activity Bank 1 Sensor 1 P0140: HO2S Circuit Insufficient Activity Bank 1 Sensor 2 P0154: HO2S Circuit Insufficient Activity Bank 2 Sensor 1 P0160: HO2S Circuit Insufficient Activity Bank 2 Sensor 2
<u>DTC P0171, P0172, P0174, or P0175 (LF1, LFW)</u>	P0171: Fuel Trim System Lean Bank 1 P0172: Fuel Trim System Rich Bank 1 P0174: Fuel Trim System Lean Bank 2 P0175: Fuel Trim System Rich Bank 2
<u>DTC P018B-P018D</u>	P018B: Fuel Pressure Sensor Performance P018C: Fuel Pressure Sensor Circuit Low Voltage P018D: Fuel Pressure Sensor Circuit High Voltage
<u>DTC P0191</u>	P0191: Fuel Rail Pressure Sensor Performance
<u>DTC P0192 or P0193</u>	P0192: Fuel Rail Pressure Sensor Circuit Low Voltage P0193: Fuel Rail Pressure Sensor Circuit High Voltage
<u>DTC P0201, P0202, P0203, P0204, P0205, P0206, P0261, P0262, P0264, P0265, P0267, P0268, P0270, P0271, P0273, P0274, P0276, or P0277</u>	P0201: Cylinder 1 Injector Control Circuit P0202: Cylinder 2 Injector Control Circuit P0203: Cylinder 3 Injector Control Circuit P0204: Cylinder 4 Injector Control Circuit P0205: Cylinder 5 Injector Control Circuit P0206: Cylinder 6 Injector Control Circuit P0261: Cylinder 1 Injector Control Circuit Low Voltage P0262: Cylinder 1 Injector Control Circuit High Voltage P0264: Cylinder 2 Injector Control Circuit Low Voltage P0265: Cylinder 2 Injector Control Circuit High Voltage P0267: Cylinder 3 Injector Control Circuit Low Voltage P0268: Cylinder 3 Injector Control Circuit High Voltage P0270: Cylinder 4 Injector Control Circuit Low Voltage P0271: Cylinder 4 Injector Control Circuit High Voltage P0273: Cylinder 5 Injector Control Circuit Low Voltage P0274: Cylinder 5 Injector Control Circuit High Voltage P0276: Cylinder 6 Injector Control Circuit Low Voltage P0277: Cylinder 6 Injector Control Circuit High Voltage
<u>DTC P0231, P0232, or P023F</u>	P0231: Fuel Pump Control Circuit Low Voltage P0232: Fuel Pump Control Circuit High Voltage P023F: Fuel Pump Control Circuit
<u>DTC P025A</u>	P025A: Fuel Pump Control Module Enable Circuit
<u>DTC P0300-P0306</u>	P0300: Engine Misfire Detected P0301: Cylinder 1 Misfire Detected P0302: Cylinder 2 Misfire Detected P0303: Cylinder 3 Misfire Detected P0304: Cylinder 4 Misfire Detected P0305: Cylinder 5 Misfire Detected P0306: Cylinder 6 Misfire Detected
<u>DTC P0315</u>	The crankshaft position system variation learn feature is used to calculate

	reference period errors caused by slight tolerance variations in the crankshaft, and the crankshaft position sensor. The calculated error allows the engine control module (ECM) to accurately compensate for reference period variations. This enhances the ability of the ECM to detect misfire events over a wider range of engine speed and load conditions.
<u>DTC P0324-P0328, P0330-P0333, P06B6, or P06B7</u>	P0324: Knock Sensor System Performance P0325: Knock Sensor Circuit Bank 1 P0326: Knock Sensor Performance Bank 1 P0327: Knock Sensor Circuit Low Voltage Bank 1 P0328: Knock Sensor Circuit High Voltage Bank 1 P0330: Knock Sensor Circuit Bank 2 P0331: Knock Sensor Performance Bank 2 P0332: Knock Sensor Circuit Low Voltage Bank 2 P0333: Knock Sensor Circuit High Voltage Bank 2 P06B6: Control Module Knock Sensor Processor 1 Performance P06B7: Control Module Knock Sensor Processor 2 Performance
<u>DTC P0335 (w/LF1)</u>	P0335: Crankshaft Position Sensor Circuit
<u>DTC P0336 (w/LF1)</u>	P0336: Crankshaft Position Sensor Performance
<u>DTC P0340, P0345, P0365, or P0390 (w/LF1)</u>	P0340: Intake Camshaft Position Sensor Circuit Bank 1 P0345: Intake Camshaft Position Sensor Circuit Bank 2 P0365: Exhaust Camshaft Position Sensor Circuit Bank 1 P0390: Exhaust Camshaft Position Sensor Circuit Bank 2
<u>DTC P0341, P0346, P0366, or P0391 (w/LF1)</u>	P0341: Intake Camshaft Position Sensor Performance Bank 1 P0346: Intake Camshaft Position Sensor Performance Bank 2 P0366: Exhaust Camshaft Position Sensor Performance Bank 1 P0391: Exhaust Camshaft Position Sensor Performance Bank 2
<u>DTC P0351-P0356 (LF1)</u>	P0351: Ignition Coil 1 Control Circuit P0352: Ignition Coil 2 Control Circuit P0353: Ignition Coil 3 Control Circuit P0354: Ignition Coil 4 Control Circuit P0355: Ignition Coil 5 Control Circuit P0356: Ignition Coil 6 Control Circuit
<u>DTC P0420 or P0430</u>	P0420: Catalyst System Low Efficiency Bank 1 P0430: Catalyst System Low Efficiency Bank 2
<u>DTC P0442</u>	P0442: Evaporative Emission (EVAP) System Small Leak Detected
<u>DTC P0443 or P0449 (w/LF1, LFW)</u>	P0443: Evaporative Emission (EVAP) Purge Solenoid Control Circuit P0449: Evaporative Emission (EVAP) Vent Solenoid Control Circuit
<u>DTC P0446</u>	P0446: Evaporative Emissions (EVAP) Vent System Performance
<u>DTC P0451-P0454 (w/LF1, LFW)</u>	P0451: Fuel Tank Pressure Sensor Performance P0452: Fuel Tank Pressure Sensor Circuit Low Voltage P0453: Fuel Tank Pressure Sensor Circuit High Voltage P0454: Fuel Tank Pressure Sensor Intermittent
<u>DTC P0455 (w/LF1, LFW)</u>	P0455: Evaporative Emission System Large Leak Detected
<u>DTC P0496</u>	P0496: Evaporative Emissions (EVAP) System Flow During Non-Purge
<u>DTC P0506 or P0507 (LF1,</u>	P0506: Idle Speed Low

<u>LFW)</u>	P0507: Idle Speed High
<u>DTC P050D</u>	P050D: Cold Start Rough Idle
<u>DTC P0601-P0604, P0606, P0607, P0610, P062B, P062F, P0630, P16F3, or P2610 (LF1, LFW, LWR)</u>	P0601: Control Module Read Only Memory Performance P0602: Control Module Not Programmed P0603: Control Module Long Term Memory Reset P0604: Control Module Random Access Memory Performance P0606: Control Module Processor Performance P062B: Control Module Fuel Injector Control Performance P062F: Control Module Long Term Memory Performance P0630: VIN Not Programmed or Mismatched - Engine Control Module (ECM) P16F3: Control Module Redundant Memory Performance P2610: Control Module Ignition Off Timer Performance
<u>DTC P0601-P0604, P0606, or P062F</u>	P0601: Control Module Read Only Memory (ROM) P0602: Control Module Not Programmed P0603: Control Module Long Term Memory Reset P0604: Control Module Random Access Memory (RAM) P0606: Control Module Internal Performance P062F: Control Module Long Term Memory Performance
<u>DTC P0627-P0629</u>	P0627: Fuel Pump Enable Circuit P0628: Fuel Pump Enable Circuit Low Voltage P0629: Fuel Pump Enable Circuit High Voltage
<u>DTC P0641 or P06A6</u>	P0641: 5 V Reference Circuit P06A6: 5 V Reference Performance
<u>DTC P0641, P0651, P0697, or P06A3 (ECM)</u>	P0641: 5 V Reference 1 Circuit P0651: 5 V Reference 2 Circuit P0697: 5 V Reference 3 Circuit P06A3: 5 V Reference 4 Circuit
<u>DTC P0650</u>	P0650: Malfunction Indicator Lamp (MIL) Control Circuit
<u>DTC P0685 or P0690</u>	P0685: Engine Controls Ignition Relay Control Circuit P0690: Engine Controls Ignition Relay Feedback Circuit High Voltage
<u>DTC P069E</u>	P069E: Fuel Pump Control Module Requested MIL Illumination
<u>DTC P0700</u>	P0700: Transmission Control Module (TCM) Requested MIL Illumination
<u>DTC P0856</u>	P0856: Traction Control Torque Request Circuit
<u>DTC P1248, P1249, P124A, P124B, P124C, or P124D</u>	P1248: Cylinder 1 Injector High Control Circuit Shorted to Control Circuit P1249: Cylinder 2 Injector High Control Circuit Shorted to Control Circuit P124A: Cylinder 3 Injector High Control Circuit Shorted to Control Circuit P124B: Cylinder 4 Injector High Control Circuit Shorted to Control Circuit P124C: Cylinder 5 Injector High Control Circuit Shorted to Control Circuit P124D: Cylinder 6 Injector High Control Circuit Shorted to Control Circuit

	Circuit
<u>DTC P1255 or P064A</u>	P064A: Fuel Pump Control Module Performance P1255: Fuel Pump Control Module Driver Over-temperature
<u>DTC P135A or P135B (LF1)</u>	P135A: Ignition Coil Supply Voltage Circuit Bank 1 P135B: Ignition Coil Supply Voltage Circuit Bank 2
<u>DTC P1400 (LF1)</u>	P1400: Cold Start Emission Reduction Control System
<u>DTC P150C (LF1)</u>	P150C: Transmission Control Module Engine Speed Request Signal Message Counter Incorrect
<u>DTC P1516, P2101, P2119, or P2176 (LF1, LFW)</u>	P1516: Throttle Actuator Control (TAC) Module Throttle Actuator Position Performance P2101: Throttle Actuator Position Performance P2119: Throttle Closed Position Performance P2176: Minimum Throttle Position Not Learned
<u>DTC P159F or P15A0</u>	P159F: Fuel Economy Mode Switch Circuit Low Voltage P15A0: Fuel Economy Mode Switch Circuit High Voltage
<u>DTC P15A1</u>	P15A1: Fuel Economy Mode Switch Performance
<u>DTC P163A</u>	P163A: Control Module Fuel Pressure Regulator 1 Control System Circuitry Performance
<u>DTC P1682</u>	P1682: Ignition 1 Switch Circuit 2
<u>DTC P2122, P2123, P2127, P2128, or P2138 (LF1, LFW)</u>	P2122: Accelerator Pedal Position (APP) Sensor 1 Circuit Low Voltage P2123: Accelerator Pedal Position (APP) Sensor 1 Circuit High Voltage P2127: Accelerator Pedal Position (APP) Sensor 2 Circuit Low Voltage P2128: Accelerator Pedal Position (APP) Sensor 2 Circuit High Voltage P2138: Accelerator Pedal Position (APP) Sensor 1-2 Not Plausible
<u>DTC P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, or P216F</u>	P2147: Cylinder 1 Injector High Control Circuit Low Voltage P2148: Cylinder 1 Injector High Control Circuit High Voltage P2150: Cylinder 2 Injector High Control Circuit Low Voltage P2151: Cylinder 2 Injector High Control Circuit High Voltage P2153: Cylinder 3 Injector High Control Circuit Low Voltage P2154: Cylinder 3 Injector High Control Circuit High Voltage P2156: Cylinder 4 Injector High Control Circuit Low Voltage P2157: Cylinder 4 Injector High Control Circuit High Voltage P216B: Cylinder 5 Injector High Control Circuit Low Voltage P216C: Cylinder 5 Injector High Control Circuit High Voltage P216E: Cylinder 6 Injector High Control Circuit Low Voltage P216F: Cylinder 6 Injector High Control Circuit High Voltage
<u>DTC P219A or P219B (LF1, LFW)</u>	P219A: Air Fuel Imbalance Bank 1 P219B: Air Fuel Imbalance Bank 2
<u>DTC P2227-P2229, or P2230 (LF1)</u>	P2227: Barometric Pressure (BARO) Sensor Performance P2228: Barometric Pressure (BARO) Sensor Circuit Low Voltage P2229: Barometric Pressure (BARO) Sensor Circuit High Voltage P2230: Barometric Pressure (BARO) Sensor Circuit Erratic
<u>DTC P2270 or P2272 (w/LF1)</u>	P2270: HO2S Signal Stuck Lean Bank 1 Sensor 2 P2272: HO2S Signal Stuck Lean Bank 2 Sensor 2
<u>DTC P2271 or P2273 (w/LF1)</u>	P2271: HO2S Signal Stuck Rich Bank 1 Sensor 2

	P2273: HO2S Signal Stuck Rich Bank 2 Sensor 2
<u>DTC P2534</u>	P2534: Ignition 1 Switch Circuit Low Voltage
<u>DTC P2544</u>	P2544: Transmission Torque Request Circuit
	P2544: Transmission Torque Request Signal Message Counter Incorrect
<u>DTC P2635</u>	P2635: Fuel Pump Flow Performance

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