

2007 Honda Element EX

2007-2008 ENGINE PERFORMANCE Fuel and Emissions Systems - Element

DTC TROUBLESHOOTING INDEX**DTC TROUBLESHOOTING CHART**

DTC (MIL indication (1))	Two Drive Cycle Detection	Detection Item	MIL
<u>P0010</u> (56)	--	Variable Valve Timing Control (VTC) Oil Control Solenoid Valve Malfunction	ON
<u>P0011</u> (56)	o	Variable Valve Timing Control (VTC) System Malfunction	ON
<u>P0101</u> (50)	o	Mass Air Flow (MAF) Sensor Circuit Range/Performance Problem	ON
<u>P0102</u> (50)	--	Mass Air Flow (MAF) Sensor Circuit Low Voltage	ON
<u>P0103</u> (50)	--	Mass Air Flow (MAF) Sensor Circuit High Voltage	ON
<u>P0107</u> (3)	--	Manifold Absolute Pressure (MAP) Sensor Circuit Low Voltage	ON
<u>P0108</u> (3)	--	Manifold Absolute Pressure (MAP) Sensor Circuit High Voltage	ON
<u>P0111</u> (10)	o	Intake Air Temperature (IAT) Sensor Circuit Range/Performance Problem	ON
<u>P0112</u> (10)	--	Intake Air Temperature (IAT) Sensor Circuit Low Voltage	ON
<u>P0113</u> (10)	--	Intake Air Temperature (IAT) Sensor Circuit High Voltage	ON
<u>P0116</u> (86)	o	Engine Coolant Temperature (ECT) Sensor 1 Circuit Range/Performance Problem	ON
<u>P0117</u> (6)	--	Engine Coolant Temperature (ECT) Sensor	ON

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		1 Circuit Low Voltage	
<u>P0118</u> (6)	--	Engine Coolant Temperature (ECT) Sensor 1 Circuit High Voltage	ON
<u>P0122</u> (7)	--	Throttle Position (TP) Sensor A Circuit Low Voltage	ON
<u>P0123</u> (7)	--	Throttle Position (TP) Sensor A Circuit High Voltage	ON
<u>P0125</u> (86)	o	Engine Coolant Temperature (ECT) Sensor 1 Malfunction/Slow Response	ON
<u>P0128</u> (87)	o	Cooling System Malfunction	ON
<u>P0133</u> (61)	o	Air Fuel Ratio (A/F) Sensor (Sensor 1) Malfunction/Slow Response	ON
<u>P0134</u> (41)	o	Air Fuel Ratio (A/F) Sensor (Sensor 1) Heater System Malfunction	ON
<u>P0135</u> (41)	--	Air Fuel Ratio (A/F) Sensor (Sensor 1) Heater Circuit Malfunction	ON
<u>P0137</u> (63)	o	Secondary Heated Oxygen Sensor (Secondary HO2S (Sensor 2)) Circuit Low Voltage	ON
<u>P0138</u> (63)	o	Secondary Heated Oxygen Sensor (Secondary HO2S (Sensor 2)) Circuit High Voltage	ON
<u>P0139</u> (63)	o	Secondary Heated Oxygen Sensor (Secondary HO2S (Sensor 2)) Slow Response	ON
<u>P0141</u> (65)	--	Secondary Heated Oxygen Sensor (Secondary HO2S (Sensor 2)) Heater Circuit Malfunction	ON
<u>P0171</u> (45)	o	Fuel System Too Lean	ON
<u>P0172</u> (45)	o	Fuel System Too Rich	ON
<u>P0222</u> (7)	--	Throttle Position (TP) Sensor B Circuit Low	ON

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		Voltage	
P0223 (7)	--	Throttle Position (TP) Sensor B Circuit High Voltage	ON
P0300 (75) any combination of the following P0301 (71) P0302 (72) P0303 (73) P0304 (74)	o	Random Misfire Detected	ON
P0301 (71)	o	No. 1 Cylinder Misfire Detected	ON
P0302 (72)	o	No. 2 Cylinder Misfire Detected	ON
P0303 (73)	o	No. 3 Cylinder Misfire Detected	ON
P0304 (74)	o	No. 4 Cylinder Misfire Detected	ON
P0325 (23)	--	Knock Sensor Circuit Malfunction	ON
P0335 (4)	--	Crankshaft Position (CKP) Sensor No Signal	ON
P0339 (4)	--	Crankshaft Position (CKP) Sensor Circuit Intermittent Interruption	ON
P0340 (57)	--	Camshaft Position (CMP) Sensor A No Signal	ON
P0341 (57)	--	Camshaft Position (CMP) Sensor A and Crankshaft Position (CKP) Sensor Incorrect Phase Detected	ON
P0344 (57)	--	Camshaft Position (CMP) Sensor A Intermittent Interruption	ON
P0365 (8)	--	Camshaft Position (CMP) Sensor B No Signal	ON
P0369 (8)	--	Camshaft Position (CMP) Sensor B Circuit Intermittent Interruption	ON
P0420 (67)	o	Catalyst System Efficiency Below Threshold	ON
P0443 (92)	--	Evaporative Emission (EVAP) Canister Purge Valve Circuit Malfunction	ON

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<u>P0451</u> (91)	o	Fuel Tank Pressure (FTP) Sensor Circuit Range/Performance Problem	ON
<u>P0452</u> (91)	o	Fuel Tank Pressure (FTP) Sensor Circuit Low Voltage	ON
<u>P0453</u> (91)	o	Fuel Tank Pressure (FTP) Sensor Circuit High Voltage	ON
<u>P0455</u> (90)	o	Evaporative Emission (EVAP) System Large Leak Detected	ON
<u>P0456</u> (90)	o	Evaporative Emission (EVAP) System Very Small Leak Detected	ON
<u>P0457</u> (90)	--	Evaporative Emission (EVAP) System Leak Detected/Fuel Fill Cap Loose or Missing	OFF
<u>P0461</u> (121)	--	Fuel Level Sensor (Fuel Gauge Sending Unit) Range/Performance Problem	OFF
<u>P0462</u> (121)	--	Fuel Level Sensor (Fuel Gauge Sending Unit) Circuit Low Voltage	OFF
<u>P0463</u> (121)	--	Fuel Level Sensor (Fuel Gauge Sending Unit) Circuit High Voltage	OFF
<u>P0496</u> (92)	o	Evaporative Emission (EVAP) System High Purge Flow Detected	ON
<u>P0497</u> (90)	o	Evaporative Emission (EVAP) System Low Purge Flow Detected	ON
<u>P0498</u> (117)	--	Evaporative Emission (EVAP) Canister Vent Shut Valve Circuit Low Voltage	ON
<u>P0499</u> (117)	--	Evaporative Emission (EVAP) Canister Vent Shut Valve Circuit High Voltage	ON
<u>P0506</u> (14)	o	Idle Control System RPM	ON

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		Lower Than Expected	
<u>P0507</u> (14)	o	Idle Control System RPM Higher Than Expected	ON
<u>P050A</u> (167)	o	Cold Start Idle Air Control System Performance Problem	ON
<u>P050B</u> (167)	o	Cold Start Ignition Timing Control System Performance Problem	ON
<u>P0562</u> (34)	--	Charging System Low Voltage	OFF
<u>P0563</u> (34)	--	Engine Control Module (ECM)/Powertrain Control Module (PCM) Power Source Circuit Unexpected Voltage	OFF
<u>P0602</u> (196)	--	Engine Control Module (ECM)/Powertrain Control Module (PCM) Programming Error	ON
<u>P0603</u> (131)	--	Engine Control Module (ECM)/Powertrain Control Module (PCM) Internal Control Module Keep Alive Memory (KAM) Error	ON
<u>P0606</u> (0)	--	Engine Control Module (ECM)/Powertrain Control Module (PCM) Processor Malfunction	ON
<u>P0630</u> (139)	--	VIN Not Programmed or Mismatch	ON
<u>P0685</u> (135)	o	Engine Control Module (ECM)/Powertrain Control Module (PCM) Power Control Circuit Internal Circuit Malfunction	ON
<u>P0720</u> (122) ⁽²⁾	--	Output Shaft (Countershaft) Speed Sensor Circuit Malfunction	ON
<u>P1009</u> (56)	--	Variable Valve Timing Control (VTC) Advance Malfunction	ON
<u>P1109</u> (13)	--	Barometric Pressure (BARO) Sensor Circuit	ON

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		Out of Range High	
<u>P1116</u> (86)	o	Engine Coolant Temperature (ECT) Sensor 1 Performance Problem	ON
<u>P1128</u> (5)	o	Manifold Absolute Pressure (MAP) Sensor Signal Lower Than Expected	ON
<u>P1129</u> (5)	o	Manifold Absolute Pressure (MAP) Sensor Signal Higher Than Expected	ON
<u>P1157</u> (48)	--	Air Fuel Ratio (A/F) Sensor (Sensor 1) Circuit Malfunction	ON
<u>P1172</u> (61)	o	Air Fuel Ratio (A/F) Sensor (Sensor 1) Circuit Out of Range High	ON
<u>P1297</u> (20)	--	Electrical Load Detector (ELD) Circuit Low Voltage	OFF
<u>P1298</u> (20)	--	Electrical Load Detector (ELD) Circuit High Voltage	OFF
<u>P1454</u> (91)	o	Fuel Tank Pressure (FTP) Sensor Range/Performance Problem	ON
<u>P145C</u> (90)	o	Evaporative Emission (EVAP) System Purge Flow Malfunction	ON
<u>P1549</u> (34)	--	Charging System High Voltage	OFF
<u>P1683</u> (40)	--	Throttle Valve Default Position Spring Performance Problem	ON
<u>P1684</u> (40)	--	Throttle Valve Return Spring Performance Problem	ON
<u>P16BB</u> (116)	--	Alternator B Terminal Circuit Low Voltage	OFF
<u>P16BC</u> (116)	--	Alternator FR Terminal Circuit/IGP Circuit Low Voltage	OFF
<u>P2101</u> (40)	--	Throttle Actuator System Malfunction	ON

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P2108 (40)	--	Throttle Actuator Control Module Problem	ON
P2118 (40)	--	Throttle Actuator Current Range/Performance Problem	ON
P2122 (37)	--	Accelerator Pedal Position (APP) Sensor A (Throttle Position (TP) Sensor D) Circuit Low Voltage	ON
P2123 (37)	--	Accelerator Pedal Position (APP) Sensor A (Throttle Position (TP) Sensor D) Circuit High Voltage	ON
P2127 (37)	--	Accelerator Pedal Position (APP) Sensor B (Throttle Position (TP) Sensor E) Circuit Low Voltage	ON
P2128 (37)	--	Accelerator Pedal Position (APP) Sensor B (Throttle Position (TP) Sensor E) Circuit High Voltage	ON
P2135 (7)	--	Throttle Position (TP) Sensor A/B Voltage Incorrect Correlation	ON
P2138 (37)	--	Accelerator Pedal Position (APP) Sensor A/B (Throttle Position (TP) Sensor D/E) Incorrect Voltage Correlation	ON
P2176 (40)	--	Throttle Actuator Control System Idle Position Not Learned	ON
P2183 (192)	o	Engine Coolant Temperature (ECT) Sensor 2 Range/Performance Problem	ON
P2184 (192)	--	Engine Coolant Temperature (ECT) Sensor 2 Circuit Low Voltage	ON
P2185 (192)	--	Engine Coolant Temperature (ECT) Sensor 2 Circuit High Voltage	ON
P2195 (48)	o	Air Fuel Ratio (A/F) Sensor (Sensor 1) Signal Stuck Lean	ON

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<u>P2227</u> (13)	o	Barometric Pressure (BARO) Sensor Range/Performance Problem	ON
<u>P2228</u> (13)	--	Barometric Pressure (BARO) Sensor Circuit Low Voltage	ON
<u>P2229</u> (13)	--	Barometric Pressure (BARO) Sensor Circuit High Voltage	ON
<u>P2238</u> (48)	--	Air Fuel Ratio (A/F) Sensor (Sensor 1) AFS+ Circuit Low Voltage	ON
<u>P2252</u> (48)	--	Air Fuel Ratio (A/F) Sensor (Sensor 1) AFS- Circuit Low Voltage	ON
<u>P2270</u> (63)	o	Secondary Heated Oxygen Sensor (Secondary HO2S (Sensor 2)) Circuit Signal Stuck Lean	ON
<u>P2271</u> (63)	o	Secondary Heated Oxygen Sensor (Secondary HO2S (Sensor 2)) Circuit Signal Stuck Rich	ON
<u>P2422</u> (117)	o	Evaporative Emission (EVAP) Canister Vent Shut Valve Stuck Closed Malfunction	ON
<u>P2552</u> (40)	--	Throttle Actuator Control Module Relay Malfunction	ON
<u>P2610</u> (132)	--	Engine Control Module (ECM)/Powertrain Control Module (PCM) Ignition Off Internal Timer Performance Problem	ON
<u>P2646</u> (22)	--	Rocker Arm Oil Pressure Switch Circuit Low Voltage	ON
<u>P2647</u> (22)	--	Rocker Arm Oil Pressure Switch Circuit High Voltage	ON
<u>P2648</u> (21)	--	Rocker Arm Oil Control Solenoid Circuit Low Voltage	ON
<u>P2649</u> (21)	--	Rocker Arm Oil Control	ON

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		Solenoid Circuit High Voltage	
P2A00 (61)	o	Air Fuel Ratio (A/F) Sensor (Sensor 1) Circuit Range/Performance Problem	ON
U0028 (126)	--	F-CAN Malfunction (BUS-OFF)	ON
U0107 (30)	--	Lost Communication With Throttle Actuator Control Module	ON
U0122 (126)	--	F-CAN Malfunction (Engine Control Module (ECM/Powertrain Control Module (PCM)-VSA modulator-control unit)	OFF
U0155 (126)	--	F-CAN Malfunction (Engine Control Module (ECM/Powertrain Control Module (PCM)-Gauge Control Module)	ON

NOTE:

The above DTCs are indicated when the PGM-FI system is selected in the HDS. Some automatic transmission DTCs cause the MIL to come on. If the MIL is on and no DTCs are indicated in the PGM-FI system, select the A/T system, and check for automatic transmission DTCs.

(1) These DTCs are indicated by a blinking MIL when the SCS line is jumped with the HDS.

(2) M/T.