

## 2001 Jaguar XJ8

2000-2003 ENGINE PERFORMANCE 'Self-Diagnostics - XJ8, XK8, XJR & XKR

### DIAGNOSTIC TROUBLE CODE DEFINITIONS

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DTC	Description
<b>P0010</b>	Variable Valve Timing Circuit Malfunction (Bank 1)
<b>P0020</b>	Variable Valve Timing Circuit Malfunction (Bank 2)
<b>P0031</b>	HO2S Heater Control Circuit Low Current (Bank 1, Upstream 1)
<b>P0032</b>	HO2S Heater Control Circuit High Current (Bank 1, Upstream 1)
<b>P0037</b>	HO2S Heater Control Circuit Low Resistance (Bank 1, Downstream 2)
<b>P0038</b>	HO2S Heater Control Circuit High Resistance (Bank 1, Downstream 2)
<b>P0051</b>	HO2S Heater Control Circuit Low Current (Bank 2, Upstream 1)
<b>P0052</b>	HO2S Heater Control Circuit High Current (Bank 2, Upstream 1)
<b>P0057</b>	HO2S Heater Control Circuit Low Resistance (Bank 2, Downstream 2)
<b>P0058</b>	HO2S Heater Control Circuit High Resistance (Bank 2, Downstream 2)
<b>P0065</b>	Air Assist Close Valve Range/Performance (Naturally Aspirated Only)
<b>P0066</b>	Air Assist Close Valve Circuit Malfunction
<b>P0101</b>	Mass Airflow Sensor Performance
<b>P0102</b>	Mass Airflow Sensor Sensing Circuit Low Voltage
<b>P0103</b>	Mass Airflow Sensor Sensing Circuit High Voltage
<b>P0105</b>	Manifold Absolute Pressure Sensor Malfunction
<b>P0106, P0107 &amp; P0108</b>	BARO Sensor Circuit Fault
<b>P0111</b>	Intake Air Temperature Sensor Range/Performance
<b>P0112</b>	Intake Air Temperature Sensor High Voltage (Low Air Temperature)
<b>P0113</b>	Intake Air Temperature Sensor Sensing Circuit Low Voltage (High Air Temperature)
<b>P0116</b>	Engine Coolant Temperature Sensor Range/Performance
<b>P0117</b>	Engine Coolant Temperature Sensor Sensing Circuit High Voltage (Low Coolant Temperature)
<b>P0118</b>	Engine Coolant Temperature Sensor Sensing Circuit Low Voltage (High Coolant Temperature)
<b>P0121</b>	Throttle Position Sensor Circuit Range/Performance
<b>P0122</b>	Throttle Position Sensor Circuit 1 Low Voltage
<b>P0123</b>	Throttle Position Sensor Circuit 1 High Voltage
<b>P0125</b>	Engine Coolant Temperature Sensor Response (For Closed Loop Fuel Control)
<b>P0128</b>	Coolant Thermostat Range/Performance Malfunction
<b>P0131</b>	HO2S Sensing Circuit Low Current (Bank 1, Upstream 1)
<b>P0135</b>	HO2S Heater Circuit Malfunction (Bank 1, Upstream 1)
<b>P0137</b>	HO2S Sensing Circuit Low Voltage (Bank 1, Downstream 2)
<b>P0138</b>	HO2S Sensing Circuit High Voltage (Bank 1, Downstream 2)
<b>P0140</b>	HO2S Sensing Circuit No Activity (Bank 1, Downstream 2)

None

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<b>P0141</b>	HO2S Heater Circuit Malfunction (Bank 1, Downstream 2)
<b>P0151</b>	HO2S Sensing Circuit Low Current (Bank 2, Upstream 1)
<b>P0152</b>	HO2S Sensing Circuit High Current (Bank 2, Upstream 1)
<b>P0153</b>	HO2S Sensing Circuit Slow Response (Bank 2, Bank 1)
<b>P0155</b>	HO2S Sensor Heater Circuit Malfunction (Bank 2, Upstream 1)
<b>P0157</b>	HO2S Sensing Circuit Low Voltage (Bank 2, Downstream 2)
<b>P0158</b>	HO2S Sensing Circuit High Voltage (Bank 2, Downstream 2)
<b>P0160</b>	HO2S Sensing Circuit No Activity (Bank 2, Downstream 2)
<b>P0161</b>	HO2S Heater Circuit Malfunction (Bank 2, Downstream 2)
<b>P0171</b>	Bank 1 Combustion Too Lean
<b>P0172</b>	Bank 1 Combustion Too Rich
<b>P0174</b>	Bank 2 Combustion Too Lean
<b>P0175</b>	Bank 2 Combustion Too Rich
<b>P0196</b>	Engine Oil Temperature Sensor Range/Performance
<b>P0197</b>	Engine Oil Temperature Sensor Sensing Circuit Low Voltage
<b>P0198</b>	Engine Oil Temperature Sensor Sensing Circuit High Voltage
<b>P0201</b>	Fuel Injector Circuit Malfunction
<b>P0222</b>	Throttle Position Sensor Circuit 2 Low Voltage
<b>P0223</b>	Throttle Position Sensor Circuit 2 High Voltage
<b>P0300</b>	Random Misfire Detected
<b>P0301</b>	Misfire Detected
<b>P0327</b>	Knock Sensor Sensing Circuit Out Of Range (Low Voltage, Bank 1)
<b>P0328</b>	Knock Sensor Sensing Circuit Out Of Range (High Voltage, Bank 1)
<b>P0332</b>	Knock Sensor Sensing Circuit Out Of Range (Low Voltage, Bank 2)
<b>P0333</b>	Knock Sensor Sensing Circuit Out Of Range (High Voltage, Bank 2)
<b>P0335</b>	Crankshaft Position Sensor Malfunction
<b>P0336</b>	Crankshaft Position Sensor Range/Performance
<b>P0340</b>	Camshaft Position Sensor Circuit Malfunction (Bank 1)
<b>P0341</b>	Camshaft Position Sensor Range/Performance (Bank 1)
<b>P0351</b>	Ignition Coil Primary/Secondary Circuit Malfunction
<b>P0400</b>	EGR Flow Malfunction
<b>P0405</b>	EGR Valve Drive Circuits Open Circuit
<b>P0406</b>	EGR Valve Drive Circuit Short Circuit
<b>P0420</b>	Catalyst Efficiency Below Threshold (Bank 1)
<b>P0430</b>	Catalyst Efficiency Below Threshold (Bank 2)
<b>P0442</b>	EVAP System Small Leak Detected
<b>P0443</b>	EVAP Canister Purge Valve Malfunction
<b>P0444</b>	EVAP Canister Purge Valve Circuit Open
<b>P0445</b>	EVAP Canister Purge Valve Circuit Shorted
<b>P0446</b>	EVAP Canister Close Valve Malfunction
<b>P0447</b>	EVAP Canister Close Valve Circuit Open

None

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<b>P0448</b>	EVAP Canister Close Valve Circuit Shorted
<b>P0450</b>	Fuel Tank Pressure Sensor Malfunction
<b>P0452</b>	Fuel Tank Pressure Sensor Circuit, Low Voltage
<b>P0453</b>	Fuel Tank Pressure Sensor Circuit, High Voltage
<b>P0455</b>	EVAP System Large Leak Detected
<b>P0456</b>	EVAP System Small Leak Detected
<b>P0460</b>	Fuel Level Sensor Sensing Signal Performance
<b>P0480</b>	Radiator Fans Slow (Series Circuit Malfunction)
<b>P0482</b>	Radiator Fans Fast (Parallel Circuit Malfunction)
<b>P0506</b>	Idle RPM Lower Than Expected
<b>P0507</b>	Idle RPM Higher Than Expected
<b>P0560</b>	Vehicle Voltage Malfunction
<b>P0566</b>	Cruise Control Cancel Switch On Fault
<b>P0567</b>	Cruise Control Resume Switch On Fault
<b>P0568</b>	Speed Control Switch Ground Malfunction
<b>P0569</b>	Cruise Control Decel/Set (Set-) Switch On Fault
<b>P0570</b>	Cruise Control Accel/Set (Set+) Switch On Fault
<b>P0603</b>	ECM Data Corrupted
P0702	(1) TCM Internal Power Supply Switching Malfunction
P0706 (1)	Rotary Switch And/Or D-4 Switch Malfunction
P0711 (1)	Transmission Fluid Temperature Sensor Range/Performance
P0712 (1)	Transmission Fluid Temperature Sensor Circuit Low Voltage (High Fluid Temperature)
P0713 (1)	Transmission Fluid Temperature Sensor Circuit High Voltage (Low Fluid Temperature)
P0715 (1)	Input Speed Sensor Circuit Malfunction
P0721 (1)	Output Speed Sensor Circuit Malfunction
P0731 (1)	Gear Control Malfunction (1st Gear)
P0732 (1)	Gear Control Malfunction (2nd Gear)
P0733 (1)	Gear Control Malfunction (3rd Gear)
P0734 (1)	Gear Control Malfunction (4th Gear)
P0735 (1)	Gear Control Malfunction (5th Gear)
P0741 (1)	Torque Converter Clutch Stuck Off
P0742 (1)	Torque Converter Clutch Stuck On
P0743 (1)	Torque Converter Clutch Pressure Regulator 4 Circuit Malfunction
P0753 (1)	Shift Solenoid Valve 1 Circuit Malfunction
P0758 (1)	Shift Solenoid Valve 2 Circuit Malfunction
P0763 (1)	Shift Solenoid Valve 3 Circuit Malfunction

None

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P0790 <sup>(1)</sup>	Mode Switch Circuit Malfunction
<b>P1000</b>	System Checks Not Complete Since Last Memory Clear
<b>P1104</b>	Mass Airflow Sensor Ground Malfunction
<b>P1107</b>	Manifold Absolute Pressure Sensor Sensing Circuit Low Voltage
<b>P1108</b>	Manifold Absolute Pressure Sensor Sensing Circuit High Voltage
<b>P1111</b>	System Checks Complete Since Last Memory Clear
<b>P1112</b>	Intake Air Temperature Sensor 2 Sensing Circuit High Voltage
<b>P1113</b>	Intake Air Temperature Sensor Sensing Circuit Low Voltage
<b>P1121</b>	Pedal Position Sensor Circuit Range/Performance
<b>P1122</b>	Pedal Position Sensor Circuit 1 Low Voltage
<b>P1123</b>	Pedal Position Sensor Circuit 1 High Voltage
<b>P1136</b>	"Cool Box" Fan Malfunction
<b>P1143</b>	Air Assist Close Valve Range/Performance
<b>P1144</b>	Air Assist Close Valve Circuit Malfunction
<b>P1222</b>	Pedal Position Sensor Circuit 2 Low Voltage
<b>P1223</b>	Pedal Position Sensor Circuit 2 High Voltage
<b>P1224</b>	Throttle Control Position Error
<b>P1229</b>	Throttle Motor Control Circuit Malfunction
<b>P1230</b>	Fuel Pump Relay Malfunction
<b>P1240</b>	Sensor Supply Voltage Malfunction
<b>P1241</b>	Sensor Supply Voltage Low
<b>P1242</b>	Sensor Supply Voltage High
<b>P1243</b>	Sensor Ground Malfunction
<b>P1245</b>	Engine Crank Signal Low Voltage
<b>P1246</b>	Engine Crank Signal High Voltage
<b>P1250</b>	Throttle Valve Return Spring Malfunction
<b>P1251</b>	Throttle Motor Power Relay Malfunction
<b>P1254</b>	Throttle "Limp Home" Spring Malfunction
<b>P1260</b>	Security Input Malfunction
<b>P1313</b>	Misfire Rate Catalyst Damage (Bank 1)
<b>P1314</b>	Misfire Rate Catalyst Damage (Bank 2)
<b>P1316</b>	Misfire Excessive Emission
<b>P1340</b>	Camshaft Position Sensor Circuit Malfunction (Bank 2)
<b>P1341</b>	Camshaft Position Sensor Range/Performance (Bank 2)
<b>P1367</b>	Ignition Monitor Group 1
<b>P1368</b>	Ignition Monitor Group 2
<b>P1384 &amp; P1392</b>	Variable Valve Timing Solenoid Malfunction (Bank 1) & Variable Valve Timing Circuit Malfunction (Bank 1)
<b>P1396 &amp; P1397</b>	Variable Valve Timing Solenoid Malfunction (Bank 2) & Variable Valve Timing Circuit Malfunction (Bank 2)
<b>P1474</b>	Intercooler Coolant Pump Relay Malfunction

None

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<b>P1516</b>	Gear Change Park/Neutral Driving Malfunction
<b>P1517</b>	Engine Cranking Park/Neutral Malfunction
<b>P1571</b>	Brake Switch Malfunction
<b>P1582</b>	Throttle Monitor Data Available Or Inertia Switch Malfunction
P1603	(1) TCM Memory Error
P1605	(1) TCM Data Corrupted
<b>P1606</b>	EMS Control Relay Malfunction
P1608	(1) TCM Hardware Failure
<b>P1609</b>	ECM Microprocessor-To-Microprocessor Communication Failure
<b>P1611</b>	ECM CPU 2 Failure
<b>P1631</b>	Throttle Motor Relay Coil Activation Circuit Failure
P1632	(1) Controller Area Network Loss Of Throttle Data
<b>P1633</b>	ECM CPU 1 Memory Failure
<b>P1634</b>	Throttle "Watchdog" Circuit Malfunction
<b>P1637</b>	Controller Area Network ABS/TCCM Token Message Missing
<b>P1638</b>	Controller Area Network Inst Token Message Missing
<b>P1642</b>	Controller Area Network Circuit Malfunction
<b>P1643</b>	Controller Area Network TCM Token Message Missing
<b>P1646</b>	Fuel Pump 2 Relay Malfunction (Supercharged)
<b>P1648</b>	ECM Knock Sensor Self Test Malfunction
<b>P1649</b>	ECM Flash Programming Circuit Malfunction
<b>P1656</b>	Throttle Position Sensor Amplifier Circuit Malfunction
<b>P1657</b>	Throttle Motor Power Relay Coil Circuit On Failure
<b>P1658</b>	Throttle Motor Power Relay On Failure
<b>P1696</b>	Adaptive Speed Control Controller Area Network Malfunction
<b>P1697</b>	Adaptive Speed Control Set/Accel Or Decel Switch(es) Circuit(s) Malfunction
P1700	(1) Multiple Transmission Failures Requiring Conflicting TCM Default Actions
P1720	(1)(2) TCM Loss Of Output Speed Signal & Loss Of Controller Wheel Speed Messages
P1722	(1) Transmission Stall Speed Failure
P1726	(1) Engine Overspeed Malfunction
P1732	(1)(3) Gearshift Load Control Malfunction (2nd To 3rd Shift)
P1733	(1)(3) Gear Shift Load Control Malfunction (3rd-To-4th Shift)
P1734	(1) Gear Ratio Malfunction (5th Gear)
P1739	(1) Gear Ratio Malfunction (2nd, 3rd And/Or 4th Gear)
P1745	(1) Pressure Regulator 1 Circuit Malfunction
P1746	(1) Pressure Regulator 2 Circuit Malfunction
P1747	(1) Pressure Regulator 3 Circuit Malfunction

None

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P1748	(1) Pressure Regulator 5 Circuit Malfunction
P1758	(1) Pressure Regulator Circuit (2, 3 & 5 Combined ) Incorrect Total Current Detected
P1779	(1)(3) Gearshift Malfunction (2nd-To-3rd; 3rd-To-4th)
P1789	(1) Ignition Switched Power Supply Low Voltage
P1793	(1) Ignition Switched Power Supply Very Low Or Very High Voltage
P1794	(1) Battery Power Supply Malfunction
P1795	(1) Controller Area Network Token Message Inconsistent Level
P1796	(1) Controller Area Network Circuit Malfunction
P1797	(1) Controller Area Network ECM Token Message Missing
P1798	(1) Controller Area Network INST Token Message Missing
P1799	(1) Controller Area Network ABS/TCCM Token Message Missing
<b>P3007</b>	ECM HO2S Control Malfunction (Bank 1, Upstream 1)
<b>P3008</b>	ECM HO2S Control Malfunction (Bank 2, Upstream 1)

(1) See appropriate diagnosis article in AUTOMATIC TRANSAXLE/TRANSMISSION.

(2) DTC P0721 will be logged first.

(3) DTCs P1732 and P1733 can only be retrieved using PDU. DTC P1779 is substituted for retrieval by a generic scan tool.

None