

DIAGNOSTIC TROUBLE CODE CHART

HINT:

- As for the vehicle for Central America, refer to Repair Manual of 2002 LEXUS LS430 (Pub. No. RM874U1).
- Parameters listed in the chart may not be exactly the same as your reading due to the type of instrument or other factors.

If a malfunction code is displayed during the DTC check in check mode, check the circuit for the codes listed in the table below. For details of each code, turn to the page referred to under the "See page" for the respective "DTC No." in the DTC chart.

DTC No. (See page)	Detection Item	Trouble Area	MIL*1	Memory
P0010 (DI-28)	Camshaft Position "A" Actuator Circuit (Bank 1)	<ul style="list-style-type: none"> Open or short in OCV circuit OCV ECM 	○	○
P0011 (DI-32)	Camshaft Position "A" –Timing Over– Advanced or System Performance (Bank 1)	<ul style="list-style-type: none"> Valve timing OCV VVT controller assembly ECM 	○	○
P0012 (DI-32)	Camshaft Position "A" –Timing Over– Retarded (Bank 1)	<ul style="list-style-type: none"> Valve timing OCV VVT controller assembly ECM 	○	○
P0016 (DI-39)	Crankshaft Position – Camshaft Position Correlation (Bank 1 Sensor A)	<ul style="list-style-type: none"> Open or short in VVT sensor circuit VVT sensor ECM 	○	○
P0018 (DI-39)	Crankshaft Position – Camshaft Position Correlation (Bank 2 Sensor A)	<ul style="list-style-type: none"> Open or short in VVT sensor circuit VVT sensor ECM 	○	○
P0020 (DI-28)	Camshaft Position "A" Actuator Circuit (Bank 2)	<ul style="list-style-type: none"> Open or short in OCV circuit OCV ECM 	○	○
P0021 (DI-32)	Camshaft Position "A" –Timing Over– Advanced or System Performance (Bank 2)	<ul style="list-style-type: none"> Valve timing OCV VVT controller assembly ECM 	○	○
P0022 (DI-32)	Camshaft Position "A" –Timing Over– Retarded (Bank 2)	<ul style="list-style-type: none"> Valve timing OCV VVT controller assembly ECM 	○	○
P0031 (DI-41)	Oxygen Sensor Heater Control Circuit Low (Bank 1 Sensor 1)	<ul style="list-style-type: none"> Open in heater circuit of heated oxygen sensor Heated oxygen sensor heater ECM 	○	○
P0032 (DI-41)	Oxygen Sensor Heater Control Circuit High (Bank 1 Sensor 1)	<ul style="list-style-type: none"> Short in heater circuit of heated oxygen sensor Heated oxygen sensor heater ECM 	○	○
P0037 (DI-41)	Oxygen Sensor Heater Control Circuit Low (Bank 1 Sensor 2)	<ul style="list-style-type: none"> Open in heater circuit of heated oxygen sensor Heated oxygen sensor heater EFI MAIN relay ECM 	○	○
P0038 (DI-41)	Oxygen Sensor Heater Control Circuit High (Bank 1 Sensor 2)	<ul style="list-style-type: none"> Short in heater circuit of heated oxygen sensor Heated oxygen sensor heater EFI MAIN relay ECM 	○	○

P0051 (DI-41)	Oxygen Sensor Heater Control Circuit Low (Bank 2 Sensor 1)	<ul style="list-style-type: none"> • Open in heater circuit of heated oxygen sensor • Heated oxygen sensor heater • ECM 	○	○
P0052 (DI-41)	Oxygen Sensor Heater Control Circuit High (Bank 2 Sensor 1)	<ul style="list-style-type: none"> • Short in heater circuit of heated oxygen sensor • Heated oxygen sensor heater • ECM 	○	○
P0057 (DI-41)	Oxygen Sensor Heater Control Circuit Low (Bank 2 Sensor 2)	<ul style="list-style-type: none"> • Open in heater circuit of heated oxygen sensor • Heated oxygen sensor heater • ECM 	○	○
P0058 (DI-41)	Oxygen Sensor Heater Control Circuit High (Bank 2 Sensor 2)	<ul style="list-style-type: none"> • Short in heater circuit of heated oxygen sensor • Heated oxygen sensor heater • ECM 	○	○
P0100 (DI-47)	Mass or Volume Air Flow Circuit	<ul style="list-style-type: none"> • Open or short in mass air flow meter circuit • Mass air flow meter • ECM 	○	○
P0101 (DI-52)	Mass or Volume Air Flow Circuit Range/Performance Problem	<ul style="list-style-type: none"> • Mass air flow meter 	○	○
P0102 (DI-47)	Mass or Volume Air Flow Circuit Low Input	<ul style="list-style-type: none"> • Open or short in mass air flow meter circuit • Mass air flow meter • ECM 	○	○
P0103 (DI-47)	Mass or Volume Air Flow Circuit High Input	<ul style="list-style-type: none"> • Open in mass air flow meter circuit (EVG circuit) • Short in mass air flow meter circuit (+B circuit) • Mass air flow meter • ECM 	○	○
P0110 (DI-53)	Intake Air Temperature Circuit	<ul style="list-style-type: none"> • Open or short in intake air temp. sensor circuit • Intake air temp. sensor (built in mass air flow meter) • ECM 	○	○
P0112 (DI-53)	Intake Air Temperature Circuit Low Input	<ul style="list-style-type: none"> • Short in intake air temp. sensor circuit • Intake air temp. sensor (built in mass air flow meter) • ECM 	○	○
P0113 (DI-53)	Intake Air Temperature Circuit High Input	<ul style="list-style-type: none"> • Open in intake air temp. sensor circuit • Intake air temp. sensor (built in mass air flow meter) • ECM 	○	○
P0115 (DI-58)	Engine Coolant Temperature Circuit	<ul style="list-style-type: none"> • Open or short in engine coolant temp. sensor circuit • Engine coolant temp. sensor • ECM 	○	○
P0116 (DI-62)	Engine Coolant Temperature Circuit Range/Performance Problem	<ul style="list-style-type: none"> • Cooling system • Engine coolant temp. sensor 	○	○
P0117 (DI-58)	Engine Coolant Temperature Circuit Low Input	<ul style="list-style-type: none"> • Short in engine coolant temp. sensor circuit • Engine coolant temp. sensor • ECM 	○	○
P0118 (DI-58)	Engine Coolant Temperature Circuit High Input	<ul style="list-style-type: none"> • Open or short in engine coolant temp. sensor circuit • Engine coolant temp. sensor • ECM 	○	○
P0120 (DI-64)	Throttle Pedal Position Sensor/Switch "A" Circuit	<ul style="list-style-type: none"> • Open or short in throttle position sensor circuit • Throttle position sensor • ECM 	○	○
P0121 (DI-69)	Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance Problem	<ul style="list-style-type: none"> • Throttle position sensor 	○	○
P0122 (DI-64)	Throttle/Pedal Position Sensor/Switch "A" Circuit Low Input	<ul style="list-style-type: none"> • Open in throttle position sensor circuit • Throttle position sensor • ECM 	○	○

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P0123 (DI-64)	Throttle/Pedal Position Sensor/ Switch "A" Circuit High Input	<ul style="list-style-type: none"> • Short in throttle position sensor circuit • Throttle position sensor • ECM 	○	○
P0125 (DI-62)	Insufficient Coolant Temperature for Closed Loop Fuel Control	<ul style="list-style-type: none"> • Cooling system • Engine coolant temp. sensor 	○	○
P0128 (DI-70)	Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature)	<ul style="list-style-type: none"> • Thermostat • Cooling system • Engine coolant temp. sensor • ECM 	○	○
P0130 (DI-71)	Oxygen Sensor Circuit (Bank 1 Sensor 1)	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor circuit (Bank 1 Sensor 1) • Heated oxygen sensor (Bank 1 Sensor 1) • Air induction system • Fuel pressure • Injector • ECM 	○	○
P0133 (DI-75)	Oxygen Sensor Circuit Slow Re- sponse (Bank 1 Sensor 1)	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor circuit (Bank 1 Sensor 1) • Heated oxygen sensor (Bank 1 Sensor 1) • Air induction system • Fuel pressure • Injector • ECM 	○	○
P0134 (DI-78)	Oxygen Sensor Circuit No Activ- ity Detected (Bank 1 Sensor 1)	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor circuit (Bank 1 Sensor 1) • Heated oxygen sensor (Bank 1 Sensor 1) • Air induction system • Fuel pressure • Injector • Gas leakage on exhaust system • PCV piping • ECM 	○	○
P0136 (DI-82)	Oxygen Sensor Circuit Malfunc- tion (Bank 1 Sensor 2)	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor circuit (Bank 1 Sensor 2) • Heated oxygen sensor (Bank 1 Sensor 2) 	○	○
P0150 (DI-71)	Oxygen Sensor Circuit (Bank 2 Sensor 1)	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor circuit (Bank 2 Sensor 1) • Heated oxygen sensor (Bank 2 Sensor 1) • Air induction system • Fuel pressure • Injector • ECM 	○	○
P0153 (DI-75)	Oxygen Sensor Circuit Slow Re- sponse (Bank 2 Sensor 1)	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor circuit (Bank 2 Sensor 1) • Heated oxygen sensor (Bank 2 Sensor 1) • Air induction system • Fuel pressure • Injector • ECM 	○	○

P0154 (DI-78)	Oxygen Sensor Circuit No Activity Detected	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor circuit (Bank 2 Sensor 1) • Heated oxygen sensor (Bank 2 Sensor 1) • Air induction system • Fuel pressure • Injector • Gas leakage on exhaust system • PCV piping • ECM 	○	○
P0156 (DI-82)	Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 2)	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor circuit (Bank 2 Sensor 2) • Heated oxygen sensor (Bank 2 Sensor 2) 	○	○
P0171 (DI-84)	System too Lean (Bank 1)	<ul style="list-style-type: none"> • Air induction system • Injector blockage • Mass air flow meter • Engine coolant temp. sensor • Fuel pressure • Gas leakage on exhaust system • Open or short in heated oxygen sensor (Bank 1 sensor 1) circuit • Heated oxygen sensor (Bank 1 sensor 1) • PCV piping • ECM 	○	○
P0172 (DI-84)	System too Rich (Bank 1)	<ul style="list-style-type: none"> • Injector leak, blockage • Mass air flow meter • Engine coolant temp. sensor • Ignition system • Fuel pressure • Gas leakage on exhaust system • Open or short in heated oxygen sensor (Bank 1 sensor 1) circuit • Heated oxygen sensor (Bank 1 sensor 1) • ECM 	○	○
P0174 (DI-84)	System too Lean (Bank 2)	<ul style="list-style-type: none"> • Air induction system • Injector blockage • Mass air flow meter • Engine coolant temp. sensor • Fuel pressure • Gas leakage on exhaust system • Open or short in heated oxygen sensor (Bank 2 sensor 1) circuit • Heated oxygen sensor (Bank 2 sensor 1) • PCV piping • ECM 	○	○
P0175 (DI-84)	System too Rich (Bank 2)	<ul style="list-style-type: none"> • Injector leak, blockage • Mass air flow meter • Engine coolant temp. sensor • Ignition system • Fuel pressure • Gas leakage in exhaust system • Open or short in heated oxygen sensor (Bank 2 sensor 1) circuit • Heated oxygen sensor (Bank 2 sensor 1) • ECM 	○	○
P0220 (DI-64)	Throttle/Pedal Position Sensor/Switch "B" Circuit	<ul style="list-style-type: none"> • Open or short in throttle position sensor circuit • Throttle position sensor • ECM 	○	○

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P0222 (DI-64)	Throttle/Pedal Position Sensor/ Switch "B" Circuit Low Input	<ul style="list-style-type: none"> • Open in throttle position sensor circuit • Throttle position sensor • ECM 	○	○
P0223 (DI-64)	Throttle/Pedal Position Sensor/ Switch "B" Circuit High Input	<ul style="list-style-type: none"> • Short in throttle position sensor circuit • Throttle position sensor • ECM 	○	○
P0230 (DI-89)	Fuel Pump Primary Circuit	<ul style="list-style-type: none"> • Open or short in fuel pump relay circuit • Fuel pump relay • ECM 	-	○
P0300 (DI-92)	Random/Multiple Cylinder Misfire Detected	<ul style="list-style-type: none"> • Open or short in engine wire • Connector connection • Vacuum hose connection • Ignition system • Injector • Fuel pressure • Mass air flow meter • Engine coolant temp. sensor • Compression pressure • Valve clearance • Valve timing • PCV piping • ECM 	○*2	○
P0301 (DI-92)	Cylinder 1 Misfire Detected		○*2	○
P0302 (DI-92)	Cylinder 2 Misfire Detected		○*2	○
P0303 (DI-92)	Cylinder 3 Misfire Detected		○*2	○
P0304 (DI-92)	Cylinder 4 Misfire Detected		○*2	○
P0305 (DI-92)	Cylinder 5 Misfire Detected		○*2	○
P0306 (DI-92)	Cylinder 6 Misfire Detected		○*2	○
P0307 (DI-92)	Cylinder 7 Misfire Detected		○*2	○
P0308 (DI-92)	Cylinder 8 Misfire Detected		○*2	○
P0325 (DI-102)	Knock Sensor 1 Circuit (Bank 1 or Single Sensor)	<ul style="list-style-type: none"> • Open or short in knock sensor 1 circuit • Knock sensor 1 (looseness) • ECM 	○	○
P0330 (DI-102)	Knock Sensor 2 Circuit (Bank 2)	<ul style="list-style-type: none"> • Open or short in knock sensor 2 circuit • Knock sensor 2 (looseness) • ECM 	○	○
P0335 (DI-106)	Crankshaft Position Sensor "A" Circuit	<ul style="list-style-type: none"> • Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Signal plate (Timing belt guide) • ECM 	○	○
P0339 (DI-108)	Crankshaft Position Sensor "A" Circuit Intermittent	<ul style="list-style-type: none"> • Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Signal plate (Timing belt guide) • ECM 	-	○
P0340 (DI-109)	Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)	<ul style="list-style-type: none"> • Open or short in camshaft position sensor circuit • VVT sensor • ECM 	○	○
P0341 (DI-109)	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sensor)		○	○
P0345 (DI-109)	Camshaft Position Sensor "A" Circuit (Bank 2)		○	○
P0346 (DI-109)	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)		○	○

P0351 (DI-112)	Ignition Coil "A" Primary/Secondary Circuit	<ul style="list-style-type: none"> • Open or short in IF1L and IGT1 circuit from No. 1 ignition coil with igniter to ECM • No. 1 ignition coil with igniter • Ignition system • ECM 	○	○
P0352 (DI-112)	Ignition Coil "B" Primary/Secondary Circuit	<ul style="list-style-type: none"> • Open or short in IF2R and IGT2 circuit from No. 2 ignition coil with igniter to ECM • No. 2 ignition coil with igniter • Ignition system • ECM 	○	○
P0353 (DI-112)	Ignition Coil "C" Primary/Secondary Circuit	<ul style="list-style-type: none"> • Open or short in IF2L and IGT3 circuit from No. 3 ignition coil with igniter to ECM • No. 3 ignition coil with igniter • Ignition system • ECM 	○	○
P0354 (DI-112)	Ignition Coil "D" Primary/Secondary Circuit	<ul style="list-style-type: none"> • Open or short in IF1R and IGT4 circuit from No. 4 ignition coil with igniter to ECM • No. 4 ignition coil with igniter • Ignition system • ECM 	○	○
P0355 (DI-112)	Ignition Coil "E" Primary/Secondary Circuit	<ul style="list-style-type: none"> • Open or short in IF2L and IGT5 circuit from No. 5 ignition coil with igniter to ECM • No. 5 ignition coil with igniter • Ignition system • ECM 	○	○
P0356 (DI-112)	Ignition Coil "F" Primary/Secondary Circuit	<ul style="list-style-type: none"> • Open or short in IF1R and IGT6 circuit from No. 6 ignition coil with igniter to ECM • No. 6 ignition coil with igniter • Ignition system • ECM 	○	○
P0357 (DI-112)	Ignition Coil "G" Primary/Secondary Circuit	<ul style="list-style-type: none"> • Open or short in IF1L and IGT7 circuit from No. 7 ignition coil with igniter to ECM • No. 7 ignition coil with igniter • Ignition system • ECM 	○	○
P0358 (DI-112)	Ignition Coil "H" Primary/Secondary Circuit	<ul style="list-style-type: none"> • Open or short in IF2R and IGT8 circuit from No. 8 ignition coil with igniter to ECM • No. 8 ignition coil with igniter • Ignition system • ECM 	○	○
P0420 (DI-119)	Catalyst System Efficiency Below Threshold (Bank 1)	<ul style="list-style-type: none"> • Gas leakage on exhaust system • Heated oxygen sensor (bank 1 sensor 1, 2) • Three-way catalytic converter 	○	○
P0430 (DI-119)	Catalyst System Efficiency Below Threshold (Bank 2)	<ul style="list-style-type: none"> • Gas leakage on exhaust system • Heated oxygen sensor (bank 2 sensor 1, 2) • Three-way catalytic converter 	○	○

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P0441 (DI-122)	Evaporative Emission Control System Incorrect Purge Flow	<ul style="list-style-type: none"> • Vacuum hose cracks, holed, blocked, damaged or disconnected ((1), (2), (3), (4), (5), (6), (7), (8), (9), (10) and (11) in Fig. 1) • Fuel tank cap incorrectly installed • Fuel tank cap cracked or damaged • Open or short in vapor pressure sensor circuit • Vapor pressure sensor • Open or short in VSV circuit for EVAP • VSV for EVAP • Open or short in VSV circuit for CCV • VSV for CCV • Open or short in VSV circuit for pressure switching valve • VSV for pressure switching valve • Fuel tank cracked, holed or damaged • Charcoal canister cracked, holed or damaged • Fuel tank over fill check valve cracked or damaged • ECM 	○	○
P0442 (DI-156)	Evaporative Emission Control System Leak Detected (Small Leak)	<ul style="list-style-type: none"> • Hose or tube cracked, holed, damaged or loose seal ((3) or (9) in Fig. 1) • Fuel tank cap incorrectly installed • Fuel tank cap cracked or damaged • Vacuum hose cracked, holed, blocked, damaged or disconnected ((1), (2), (4), (5), (6), (7), (8), (10) and (11) in Fig. 1) • Fuel tank cracked, holed or damaged • Charcoal canister cracked, holed or damaged • Open or short in vapor pressure sensor circuit • Vapor pressure sensor • Fuel tank over fill check valve cracked or damaged • ECM 	○	○
P0446 (DI-122)	Evaporative Emission Control System Vent Control Circuit	<ul style="list-style-type: none"> • Same as DTC No. P0441 	○	○
P0451 (DI-178)	Evaporative Emission Control System Pressure Sensor/Switch Range/Performance	<ul style="list-style-type: none"> • Open or short in vapor pressure sensor circuit • Vapor pressure sensor • ECM 	○	○
P0452 (DI-178)	Evaporative Emission Control System Pressure Sensor/Switch Low Input	<ul style="list-style-type: none"> • Short in vapor pressure sensor circuit • Vapor pressure sensor • ECM 	○	○
P0453 (DI-178)	Evaporative Emission Control System Pressure Sensor/Switch High Input	<ul style="list-style-type: none"> • Open in vapor pressure sensor circuit • Vapor pressure sensor • ECM 	○	○
P0456 (DI-156)	Evaporative Emission Control System Leak Detected (Very Small Leak)	<ul style="list-style-type: none"> • Same as DTC No. P0442 	○	○
P0500 (DI-181)	Vehicle Speed Sensor "A"	<ul style="list-style-type: none"> • Combination meter • Open or short in vehicle speed sensor circuit • Vehicle speed sensor • ECM 	○	○
P0503 (DI-181)	Vehicle Speed Sensor "A" Intermittent/Erratic/High	<ul style="list-style-type: none"> • Combination meter • Open or short in vehicle speed sensor circuit • Vehicle speed sensor • ECM 	—	○
P0504 (DI-184)	Brake Switch "A"/"B" Correlation	<ul style="list-style-type: none"> • Stop light switch signal circuit • Stop light switch • ECM 	—	○

P0505 (DI-187)	Idle Air Control System	<ul style="list-style-type: none"> • Air induction system • Electric throttle control system • Electric throttle control system circuit • PCV piping • ECM 	○	○
P0513 (DI-189)	Incorrect Immobilizer Key	<ul style="list-style-type: none"> • Key 	-	○
P0560 (DI-190)	System Voltage	<ul style="list-style-type: none"> • Open in back-up power source circuit • EFI No.1 fuse • ECM 	○	○
P0604 (DI-192)	Internal Control Module Random Access Memory (RAM) Error	<ul style="list-style-type: none"> • ECM 	○	○
P0606 (DI-192)	ECM/PCM Processor	<ul style="list-style-type: none"> • ECM 	○	○
P0607 (DI-192)	Control Module Performance	<ul style="list-style-type: none"> • ECM 	○	○
P0617 (DI-193)	Starter Relay Circuit High	<ul style="list-style-type: none"> • Park/neutral position switch • Starter relay circuit • Ignition switch • ECM 	○	○
P0657 (DI-192)	Actuator Supply Voltage Circuit / Open	<ul style="list-style-type: none"> • ECM 	○	○
P1340 (DI-199)	Camshaft Position Sensor "A" Circuit (Bank 1 Sensor 2)	<ul style="list-style-type: none"> • Open or short in camshaft position sensor circuit 	○	○
P1341 (DI-199)	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 Sensor 2)	<ul style="list-style-type: none"> • Camshaft position sensor • LH camshaft timing pulley • ECM 	○	○
P1645 (DI-201)	Body ECU Malfunction	<ul style="list-style-type: none"> • Body ECU • A/C ECU • Communication bus 	○	-
P2102 (DI-202)	Throttle Actuator Control Motor Circuit Low	<ul style="list-style-type: none"> • Open in throttle control motor circuit • Throttle control motor • ECM 	○	○
P2103 (DI-202)	Throttle Actuator Control Motor Circuit High	<ul style="list-style-type: none"> • Short in throttle control motor circuit • Throttle control motor • ECM 	○	○
P2111 (DI-206)	Throttle Actuator Control System - Stuck Open	<ul style="list-style-type: none"> • Throttle control motor • Throttle body 	○	○
P2112 (DI-206)	Throttle Actuator Control System - Stuck Closed	<ul style="list-style-type: none"> • Throttle control motor • Throttle body 	○	○
P2118 (DI-208)	Throttle Actuator Control Motor Current Range/Performance	<ul style="list-style-type: none"> • Open in ETCS power source circuit • ECM 	○	○
P2119 (DI-210)	Throttle Actuator Control Throttle Body Range/Performance	<ul style="list-style-type: none"> • Electric throttle control system • ECM 	○	○
P2120 (DI-212)	Throttle/Pedal Position Sensor/ Switch "D" Circuit	<ul style="list-style-type: none"> • Open or short in accelerator pedal position sensor circuit • Accelerator pedal position sensor • ECM 	○	○
P2121 (DI-216)	Throttle/Pedal Position Sensor/ Switch "D" Circuit Range/Performance	<ul style="list-style-type: none"> • Accelerator pedal position sensor 	○	○
P2122 (DI-212)	Throttle/Pedal Position Sensor/ Switch "D" Circuit Low Input	<ul style="list-style-type: none"> • Open in accelerator pedal position sensor circuit • Accelerator pedal position sensor • ECM 	○	○

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P2123 (DI-212)	Throttle/Pedal Position Sensor/ Switch "D" Circuit High Input	<ul style="list-style-type: none"> • Short in accelerator pedal position sensor circuit • Accelerator pedal position sensor • ECM 	○	○
P2125 (DI-212)	Throttle/Pedal Position Sensor/ Switch "E" Circuit	<ul style="list-style-type: none"> • Short in accelerator pedal position sensor circuit • Accelerator pedal position sensor • ECM 	○	○
P2127 (DI-212)	Throttle/Pedal Position Sensor/ Switch "E" Circuit Low Input	<ul style="list-style-type: none"> • Short in accelerator pedal position sensor circuit • Accelerator pedal position sensor • ECM 	○	○
P2128 (DI-212)	Throttle/Pedal Position Sensor/ Switch "E" Circuit High Input	<ul style="list-style-type: none"> • Short in accelerator pedal position sensor circuit • Accelerator pedal position sensor • ECM 	○	○
P2135 (DI-64)	Throttle Pedal Position Sensor/ Switch "A" / "B" Voltage Correlation	<ul style="list-style-type: none"> • VTA1 and VTA2 circuit are short-circuited • Throttle position sensor • ECM 	○	○
P2138 (DI-212)	Throttle/Pedal Position Sensor/ Switch "D"/"E" Voltage Correlation	<ul style="list-style-type: none"> • Short in accelerator pedal position sensor circuit • Accelerator pedal position sensor • ECM 	○	○
P2195 (DI-71)	Oxygen Sensor Signal Stuck Lean (Bank 1 Sensor 1)	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor circuit (Bank 1, 2 Sensor 1) • Heated oxygen sensor (Bank 1, 2 Sensor 1) • EFI MAIN relay • Air induction system • Fuel pressure • Injector • ECM 	○	○
P2196 (DI-71)	Oxygen Sensor Signal Stuck Rich (Bank 1 Sensor 1)		○	○
P2197 (DI-71)	Oxygen Sensor Signal Stuck Lean (Bank 2 Sensor 1)		○	○
P2198 (DI-71)	Oxygen Sensor Signal Stuck Rich (Bank 2 Sensor 1)		○	○

*1: MIL lights up.

*2: MIL lights up or blinks.

*: - MIL does not light up, ○ MIL lights up