## 05-241

051MZ-09

# DIAGNOSTIC TROUBLE CODE CHART

HINT:

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
P0031 *4 (05–255)	Oxygen Sensor Heater Circuit Low (Bank 1 Sensor 1)	<ul> <li>Open in heater circuit of A/F sensor</li> <li>A/F sensor heater</li> <li>A/F sensor heater relay</li> <li>ECM</li> </ul>	0	0
P0032 *4 (05–255)	Oxygen Sensor Heater Circuit High (Bank 1 Sensor 1)	<ul> <li>Short in heater circuit of A/F sensor</li> <li>A/F sensor heater</li> <li>A/F sensor heater relay</li> <li>ECM</li> </ul>	0	0
P0037 (05–258)	Oxygen Sensor Heater Control Circuit Low (Bank 1 Sensor 2)	<ul> <li>Open in heater circuit of oxygen sensor</li> <li>Oxygen sensor heater</li> <li>E.F.I. ECU relay</li> <li>ECM</li> </ul>	0	0
P0038 (05–258)	Oxygen Sensor Heater Control Circuit High (Bank 1 Sensor 2)	<ul> <li>Short in heater circuit of oxygen sensor</li> <li>Oxygen sensor heater</li> <li>E.F.I. ECU relay</li> <li>ECM</li> </ul>	0	0
P0051 *4 (05–255)	Oxygen Sensor Heater Circuit Low (Bank 2 Sensor 1)	• Same as DTC No. P0031	0	0
P0052 *4 (05–255)	Oxygen Sensor Heater Circuit High (Bank 2 Sensor 1)	• Same as DTC No. P0032	0	0
P0057 (05–258)	Oxygen Sensor Heater Circuit Low (Bank 2 Sensor 2)	• Same as DTC No. P0037	0	0
P0058 (05–258)	Oxygen Sensor Heater Circuit High (Bank 2 Sensor 2)	• Same as DTC No. P0038	0	0
P0100 (05–261)	Mass or volume Air Flow Circuit	<ul> <li>Open or short in mass air flow meter circuit</li> <li>Mass air flow meter</li> <li>ECM</li> </ul>	0	0
P0101 (05–266)	Mass or volume Air Flow Circuit Range/Performance Problem	Mass air flow meter	0	0
P0102 (05–261)	Mass or volume Air Flow Circuit Low Input	<ul> <li>Open or short in mass air flow meter circuit</li> <li>Mass air flow meter</li> <li>ECM</li> </ul>	0	0
P0103 (05–261)	Mass or volume Air Flow Circuit High Input	<ul> <li>Open in mass air flow meter circuit (E2G circuit)</li> <li>Short in mass air flow meter circuit (+B circuit)</li> <li>Mass air flow meter</li> <li>ECM</li> </ul>	0	0
P0110 (05–267)	Intake Air Temperature Circuit	<ul> <li>Open or short in intake air temp. sensor circuit</li> <li>Intake air temp. sensor (built in mass air flow meter)</li> <li>ECM</li> </ul>	0	0
P0112 (05–267)	Intake Air Temperature Circuit Low Input	<ul> <li>Short in intake air temp. sensor circuit</li> <li>Intake air temp. sensor (built in mass air flow meter)</li> <li>ECM</li> </ul>	0	0
P0113 (05–267)	Intake Air Temperature Circuit High Input	<ul> <li>Open in intake air temp. sensor circuit</li> <li>Intake air temp. sensor (built in mass air flow meter)</li> <li>ECM</li> </ul>	0	0
P0115 (05–271)	Engine Coolant Temperature Cir- cuit	<ul> <li>Open or short in engine coolant temp. sensor circuit</li> <li>Engine coolant temp. sensor</li> <li>ECM</li> </ul>	0	0

### 05-242

### DIAGNOSTICS – SFI SYSTEM (1MZ-FE)

P0116 (05–275)	Engine Coolant Temperature Cir- cuit Range/Performance Prob- lem	<ul><li>Cooling system</li><li>Engine coolant temp. sensor</li></ul>	0	0
P0117 (05–271)	Engine Coolant Temperature Cir- cuit Low Input	<ul> <li>Short in engine coolant temp. sensor circuit</li> <li>Engine coolant temp. sensor</li> <li>ECM</li> </ul>	0	0
P0118 (05–271)	Engine Coolant Temperature Cir- cuit High Input	<ul> <li>Open or short in engine coolant temp. sensor circuit</li> <li>Engine coolant temp. sensor</li> <li>ECM</li> </ul>	0	0
P0120 (05–277)	Throttle/Pedal Position Sensor/ Switch "A" Circuit	<ul> <li>Open or short in throttle position sensor circuit</li> <li>Throttle position sensor</li> <li>Wire harness</li> <li>ECM</li> </ul>	0	0
P0121 (05–282)	Throttle/Pedal Position Sensor/ Switch "A" Circuit Range/Perfor- mance Problem	Throttle position sensor	0	0
P0122 (05–277)	Throttle/Pedal Position Sensor/ Switch "A" Circuit Low Input	• Same as DTC No. P0120	0	0
P0123 (05–277)	Throttle/Pedal Position Sensor/ Switch "A" Circuit High Input	<ul> <li>Open in throttle position sensor circuit (E2 circuit)</li> <li>Short in throttle position sensor circuit (+B circuit)</li> <li>Throttle position sensor</li> <li>ECM</li> </ul>	0	0
P0125 (05–275)	Insufficient Coolant Temperature for Closed Loop Fuel Control	• Same as DTC No. P0116	0	0
P0128 (05–283)	Coolant Thermostat (Coolant Temperature Below Thermostat regulating temperature)	Thermostat     Cooling system     Engine coolant temp. sensor     ECM	0	0
P0134 *4 (05–284)	Oxygen Sensor Circuit No Activ- ity Detected (Bank 1 Sensor 1)	<ul> <li>Open or short in A/F sensor (bank 1, 2 sensor 1) circuit</li> <li>A/F sensor (bank 1, 2 sensor 1)</li> <li>A/F sensor heater</li> <li>A/F sensor heater relay</li> <li>A/F sensor heater and relay circuit</li> <li>Air induction system</li> <li>Fuel pressure</li> <li>Injector</li> <li>Gas leakage in exhaust system</li> <li>PCV hose connection</li> <li>PCV valve and hose.</li> <li>ECM</li> </ul>	0	0
P0136 (05–293)	Heated Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)	<ul> <li>Open or short in oxygen sensor circuit</li> <li>Oxygen sensor</li> <li>Oxygen sensor heater</li> </ul>	0	0
P0154 *4 (05–284)	Oxygen Sensor Circuit No Activ- ity Detected (Bank 2 Sensor 1)	• Same as DTC No. P0134	0	0
P0156 (05–293)	Oxygen Sensor Circuit Malfunc- tion (Bank 2 Sensor 2)	• Same as DTC No. P0136	0	0
P0171 (05–297)	System too Lean (Bank 1)	<ul> <li>Air induction system</li> <li>Injector blockage</li> <li>Mass air flow meter</li> <li>Engine coolant temperature sensor</li> <li>Fuel pressure</li> <li>Gas leakage in exhaust system</li> <li>Open or short in A/F sensor circuit</li> <li>A/F sensor (bank 1, 2 sensor 1)</li> <li>A/F sensor heater relay</li> <li>A/F sensor heater and relay circuit</li> <li>Open or short in oxygen sensor (bank 1, 2 sensor 1)</li> <li>Cygen sensor (bank 1, 2 sensor 1)</li> <li>PCV hose connection</li> <li>PCV hose</li> </ul>	0	0

2003 CAMRY REPAIR MANUAL (RM972U)

P0172 (05–297)	System too Rich (Bank 1)	<ul> <li>Injector leak, blockage</li> <li>Mass air flow meter</li> <li>Engine coolant temperature sensor</li> <li>Ignition system</li> <li>Fuel pressure</li> <li>Gas leakage in exhaust system</li> <li>Open or short in A/F sensor circuit</li> <li>A/F sensor (bank 1, 2 sensor 1)</li> <li>A/F sensor heater relay</li> <li>A/F sensor heater and relay circuit</li> <li>Open or short in oxygen sensor (bank 1, 2 sensor 1) circuit</li> <li>Oxygen sensor (bank 1, 2 sensor 1)</li> </ul>	0	0
P0174 (05–297)	System too Lean (Bank2)	• Same as DTC No. P0171	0	0
P0175 (05–297)	System too Rich (Bank2)	• Same as DTC No. P0172	0	0
P0220 (05–277)	Throttle/Pedal Position Sensor/ Switch "B" Circuit	• Same as DTC No. P0120	0	0
P0222 (05–277)	Throttle/Pedal Position Sensor/ Switch "B" Circuit Low Input	• Same as DTC No. P0120	0	0
P0223 (05–277)	Throttle/Pedal Position Sensor/ Switch "B" Circuit High Input	• Same as DTC No. P0120	0	0
P0300 (05–305)	Random/Multiple Cylinder Misfire Detected	Open or short in engine wire     Connector connection	⊜ *2	0
P0301 (05–305)	Cylinder 1 Misfire Detected	Vacuum hose connection     Ignition system	○ *2	0
P0302 (05–305)	Cylinder 2 Misfire Detected	Injector     Fuel pressure	⊜ *2	0
P0303 (05–305)	Cylinder 3 Misfire Detected	Mass air flow meter     Engine coolant temperature sensor	⊜ *2	0
P0304 (05–305)	Cylinder 4 Misfire Detected	Compression pressure     Valve clearance	○ *2	0
P0305 (05–305)	Cylinder 5 Misfire Detected	Valve timing     PCV hose connection	○ *2	0
P0306 (05–305)	Cylinder 6 Misfire Detected	• PCV hose     • ECM	○ *2	0
P0325 (05–318)	Knock Sensor 1 Circuit (Bank 1 or Single Sensor)	<ul> <li>Open or short in knock sensor 1 circuit</li> <li>Knock sensor 1 (looseness)</li> <li>ECM</li> </ul>	0	0
P0330 (05–318)	Knock Sensor 2 Circuit (Bank 2)	<ul> <li>Open or short in knock sensor 2 circuit</li> <li>Knock sensor 2 (looseness)</li> <li>ECM</li> </ul>	0	0
P0335 (05–32 <i>2</i> )	Crankshaft Position Sensor "A" Circuit	<ul> <li>Open or short in crankshaft position sensor circuit</li> <li>Crankshaft position sensor</li> <li>Crankshaft timing pulley</li> <li>ECM</li> </ul>	0	0
P0339 (05–322)	Crankshaft Position Sensor "A" Circuit Intermittent	<ul> <li>Open or short in crankshaft position sensor circuit</li> <li>Crankshaft position sensor</li> <li>Crankshaft timing pulley</li> <li>ECM</li> </ul>	_	0
P0340 (05–325)	Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)	Open or short in camshaft position sensor circuit     Camshaft position sensor	0	0
P0341 (05–325)	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sensor)	<ul><li>Camshaft timing pulley</li><li>Jumping teeth of timing belt</li><li>ECM</li></ul>	0	0

### 05–244

### DIAGNOSTICS – SFI SYSTEM (1MZ-FE)

P0351	Ignition Coil "A" Primary/Sec-		0	0
(05–328) R0352	ondary Circuit			Ŭ
(05–328)	ondary Circuit		0	0
P0353 ( <mark>05–328</mark> )	Ignition Coil "C" Primary/Sec- ondary Circuit	<ul> <li>Ignition system</li> <li>Open or short in IGF or IGT1 – 6 circuit from ignition coil assy to</li> </ul>	0	0
P0354 (05–328)	Ignition Coil "D" Primary/Sec- ondary Circuit	•No.1 –6 ignition coil assy     •ECM	0	0
P0355 (05–328)	Ignition Coil "E" Primary/Sec- ondary Circuit		0	0
P0356 (05–328)	Ignition Coil "F" Primary/Sec- ondary Circuit		0	0
P0401 (05–335)	Exhaust Gas Recirculation Flow Insufficient Detected	<ul> <li>Open or short in EGR gas temp. sensor circuit</li> <li>EGR gas temp. sensor</li> <li>Vacuum hose disconnected or blocked</li> <li>Open in VSV circuit for EGR</li> <li>VSV for EGR</li> <li>EGR system</li> <li>EGR valve (stuck closed)</li> <li>Vacuum control valve</li> <li>ECM</li> </ul>	0	0
P0402 (05–343)	Exhaust Gas Recirculation Flow Excessive Detected	<ul> <li>Vacuum hose disconnected or blocked</li> <li>Short in VSV circuit for EGR</li> <li>VSV for EGR</li> <li>EGR valve stuck open</li> <li>Open or short in EGR valve position sensor circuit</li> <li>EGR valve position sensor</li> <li>ECM</li> </ul>	0	0
P0405 (05–346)	Exhaust Gas Recirculation Sen- sor "A" Circuit Low	<ul> <li>Open in EGR valve position sensor circuit</li> <li>EGR valve position sensor</li> <li>ECM</li> </ul>	0	0
P0406 (05–346)	Exhaust Gas Recirculation Sen- sor "A" Circuit High	<ul> <li>Short in EGR valve position sensor circuit</li> <li>EGR valve position sensor</li> <li>ECM</li> </ul>	0	0
P0409 (05–350)	Exhaust Gas Recirculation Sen- sor "A" Circuit	• EGR valve position sensor	0	0
P0420 (05–351)	Catalyst System Efficiency Be- low Threshold (Bank 1)	<ul> <li>Exhaust manifold sub-assy RH (front catalyst bank 1)</li> <li>Exhaust pipe assy front (rear catalyst)</li> <li>Gas leakage on exhaust system</li> <li>Heated oxygen sensor (bank 1 sensor 2)</li> <li>A/F sensor (bank 1 sensor 1)</li> </ul>	0	0
P0430 (05–351)	Catalyst System Efficiency Be- low Threshold (Bank 2)	<ul> <li>Exhaust manifold converter sub-assy No.2 (front catalyst bank 2)</li> <li>Exhaust pipe assy front (rear catalyst)</li> <li>Gas leakage on exhaust system</li> <li>Heated oxygen sensor (bank 2 sensor 2)</li> <li>A/F sensor (bank 2 sensor 1)</li> </ul>	0	0
P0441 (05–354)	Evaporative Emission Control System Incorrect Purge Flow	<ul> <li>Fuel tank cap incorrectly installed</li> <li>Fuel tank cap cracked or damaged</li> <li>Vacuum hose cracks, holed blocked, damaged or disconnected</li> <li>Open or short in vapor pressure sensor circuit</li> <li>Vapor pressure sensor</li> <li>Open or short in VSV circuit for EVAP</li> <li>VSV for EVAP</li> <li>Open or short in VSV circuit for CCV</li> <li>VSV for CCV</li> <li>Open or short in VSV circuit for pressure switching valve</li> <li>VSV for pressure switching valve</li> <li>Fuel tank cracked, holed or damaged</li> <li>Charcoal canister cracked, holed or damaged</li> <li>Fuel tank over fill check valve cracked damaged</li> <li>ECM</li> </ul>	0	0

2003 CAMRY REPAIR MANUAL (RM972U)

05-2	45
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P0442 (05–378)	Evaporative Emission Control System Leak detected (small leak)	<ul> <li>Fuel tank cap incorrectly installed</li> <li>Fuel tank cap cracked or damaged</li> <li>Hose or tube cracked, hole, damaged or loose seal</li> <li>Vacuum hose cracked, holed, blocked, damaged or disconnected</li> <li>Fuel tank cracked, holed or damaged</li> <li>Charcoal canister cracked, holed or damaged</li> <li>Open or short in vapor pressure sensor circuit</li> <li>VSV for CCV</li> <li>VSV for EVAP</li> <li>VSV for pressure switching valve</li> <li>Vapor pressure sensor</li> <li>Fuel tank over fill check valve cracked or damaged</li> <li>ECM</li> </ul>	0	0
P0446 (05–354)	Evaporative Emission Control System Vent Control Circuit	• Same as DTC No. P0441	0	0
P0451 (05–390)	Evaporative Emission Control System Pressure Sensor/Switch Range/Performance	<ul> <li>Open or short in vapor pressure sensor circuit</li> <li>Vapor pressure sensor</li> <li>ECM</li> </ul>	0	0
P0452 (05–390)	Evaporative Emission Control System Pressure Sensor/Switch Low Input	<ul> <li>Open in vapor pressure sensor circuit</li> <li>Vapor pressure sensor</li> <li>ECM</li> </ul>	0	0
P0453 (05–390)	Evaporative Emission Control System Pressure Sensor/Switch High Input	<ul> <li>Short or short in vapor pressure sensor circuit</li> <li>Vapor pressure sensor</li> <li>ECM</li> </ul>	0	0
P0456 (05–378)	Evaporative Emission Control System Leak Detected (very small leak)	• Same as DTC No. P0442	0	0
P0500 (05–392)	Vehicle Speed Sensor "A"	Combination meter     Open or short in speed sensor circuit	0	0
P0503 (05–392)	Vehicle Speed Sensor "A" Inter- mittent/Erratic/High	Venicle speed sensor     ECM     Skid control computer assy	0	0
P0504 (05–395)	Brake Switch Correlation	<ul> <li>Short in stop light switch signal circuit</li> <li>Stop light switch</li> <li>ECM</li> </ul>	0	0
P0505 (05–399)	Idle Control System	Throttle body assy     Air induction system     PCV hose connection     ECM	0	0
P0513 (05–1309)	Incorrect Immobilizer Key	Immobilizer system		0
P0560 (05–402)	System Voltage	Open in back up power source circuit     ECM	0	0
P0571 (05–404)	Brake Switch "A" Circuit	<ul> <li>Short in stop light switch signal circuit</li> <li>Stop light switch</li> <li>ECM</li> </ul>	0	0
P0604 (05–405)	Internal Control Module Random Access Memory (RAM) Error	• ECM	0	0
P0606 ( <mark>05–405</mark> )	ECM/PCM Processor	•ECM	0	0
P0607 (05–405)	Control Module Performance	•ECM	0	0
P0617 (05–406)	Starter Relay Circuit High	<ul> <li>Short in park/neutral position switch circuit</li> <li>Park/neutral position switch</li> <li>Ignition switch</li> <li>ECM</li> </ul>	0	0
P0657 (05–405)	Actuator Supply Voltage Circuit / Open	• ECM	0	0

### DIAGNOSTICS – SFI SYSTEM (1MZ-FE)

P0705	Transmission Range Sensor Cir-	Short in park/neutral position switch circuit		
(05–689)	cuit Malfunction (PRNDL Input)	Park/neutral position switch     ECM	0	0
P0710 (05–693)	Transmission Fluid Temperature Sensor "A" circuit	Electronic controlled automatic transmission (ECT)	0	0
P0711 (05–696)	Transmission Fluid Temperature Sensor "A" Performance	Electronic controlled automatic transmission (ECT)	0	0
P0712 (05–693)	Transmission Fluid Temperature Sensor "A" Circuit Low Input	Electronic controlled automatic transmission (ECT)	0	0
P0713 (05–693)	Transmission Fluid Temperature Sensor "A" Circuit High Input	Electronic controlled automatic transmission (ECT)	0	0
P0717 (05–698)	Input/Turbine Speed Sensor "A" Circuit No Signal	Electronic controlled automatic transmission (ECT)	0	0
P0724 (05–412)	Brake Switch "B" Circuit High	<ul> <li>Short in stop light switch signal circuit</li> <li>Stop light switch</li> <li>ECM</li> </ul>	0	0
P0741 (05–702)	Torque Converter Clutch Circuit Performance or Stuck Off	Electronic controlled automatic transmission (ECT)	0	0
P0743 (05–706)	Torque Converter Clutch Circuit Electrical	Electronic controlled automatic transmission (ECT)	0	0
P0746 (05–709)	Pressure Control Solenoid "A" Performance (Shift Solenoid Valve SL1)	Electronic controlled automatic transmission (ECT)	0	0
P0748 (05–714)	Pressure Control Solenoid "A" Electrical (Shift Solenoid Valve SL1)	Electronic controlled automatic transmission (ECT)	0	0
P0766 (05–709)	Shift Solenoid "D" Performance (Shift Solenoid Valve S4)	Electronic controlled automatic transmission (ECT)	0	0
P0776 (05–709)	Pressure Control Solenoid "B" Performance (Shift Solenoid Valve SL2)	Electronic controlled automatic transmission (ECT)	0	0
P0778 (05–714)	Pressure Control Solenoid "B" Electrical (Shift Solenoid Valve SL2)	Electronic controlled automatic transmission (ECT)	0	0
P0793 (05–721)	Intermediate Shaft Speed Sen- sor "A" Circuit No Signal	Electronic controlled automatic transmission (ECT)	0	0
P0850 (05–689)	Park/Neutral Switch Input Circuit	• Same as DTC No. P0705	0	0
P0982 (05–714)	Shift Solenoid "D" Control Low	Electronic controlled automatic transmission (ECT)	0	0
P0983 (05–714)	Shift Solenoid "D" Control High	Electronic controlled automatic transmission (ECT)	0	0
P2102 (05–416)	Throttle Actuator Control Motor Circuit Low	Open or short in throttle control motor circuit     Throttle body assy (Throttle motor)	0	0
P2103 (05–416)	Throttle Actuator Control Motor Circuit High	• ECM	0	0
P2111 (05–421)	Throttle Actuator Control System – Stuck Open	Throttle control motor circuit     Throttle control motor	0	0
P2112 (05–421)	Throttle Actuator Control System – Stuck Closed	I hrottle body     Throttle valve	0	0
P2118 (05–423)	Actuator Control Motor Current Range/Performance	Open in ETCS power source circuit     ECM	0	0
P2119 (05–426)	Throttle Actuator Control Throttle Body Range/Performance	Electric throttle control system     ECM	0	0
P2120 (05–428)	Throttle/Pedal Position Sensor/ Switch "D" Circuit	<ul> <li>Open or short in accelerator pedal position sensor circuit</li> <li>Accelerator pedal position sensor</li> <li>ECM</li> </ul>	0	0

P2121 (05-436)	Throttle/Pedal Position Sensor/ Switch "D" Circuit Range/Perfor- mance	Accelerator pedal position sensor     ECM	0	0
P2122 (05-428)	Throttle/Pedal Position Sensor/ Switch "D" Circuit Low Input		0	0
P2123 (05-428)	Throttle/Pedal Position Sensor/ Switch "D" Circuit High Input		0	0
P2125 (05-428)	Throttle/Pedal Position Sensor/ Switch "E" Circuit	• Same as DTC No. P2120	0	0
P2127 (05-428)	Throttle/Pedal Position Sensor/ Switch "E" Circuit Low Input		0	0
P2128 (05-428)	Throttle/Pedal Position Sensor/ Switch "E" Circuit High Input	• Same as DTC No. P2120	0	0
P2135 (05–277)	Throttle Pedal Position Sensor/ Switch "A"/"B" Voltage Correla- tion	• Same as DTC No. P0120	0	0
P2138 (05–428)	Throttle Pedal Position Sensor/ Switch "D"/"E" Voltage Correla- tion	• Same as DTC No. P2120	0	0
P2195 *4 (05-438)	Oxygen Sensor Signal Stuck Lean (Bank 1 Sensor 1)	<ul> <li>Open or short in A/F sensor (bank 1, 2 sensor 1) circuit</li> <li>A/F sensor (bank 1, 2 sensor 1)</li> </ul>	0	0
P2196 *4 (05-438)	Oxygen Sensor Signal Stuck Rich (Bank 1 Sensor 1)	<ul><li>A/F sensor heater</li><li>A/F sensor heater relay</li></ul>	0	0
P2197 *4 (05-438)	Oxygen Sensor Signal Stuck Lean (Bank 2 Sensor 1)	A/F sensor heater and relay circuit     Air induction system     Euclinessure	0	0
P2198 *4 (05-438)	Oxygen Sensor Signal Stuck Rich (Bank 2 Sensor 1)	Injector     ECM	0	0
P2237 *4 (05–447)	Oxygen Sensor Pumping Cur- rent Circuit / Open (for A/F sen- sor) (Bank 1 Sensor 1)		0	0
P2238 *4 (05–447)	Oxygen Sensor Pumping Cur- rent Circuit / Low (for A/F sen- sor) (Bank 1 Sensor 1)		0	0
P2239 *4 (05–447)	Oxygen Sensor Pumping Cur- rent Circuit / High (for A/F sen- sor) (Bank 1 Sensor 1)		0	0
P2240 *4 (05–447)	Oxygen Sensor Pumping Cur- rent Circuit / Open (for A/F sen- sor) (Bank 2 Sensor 1)		0	0
P2241 *4 (05–447)	Oxygen Sensor Pumping Cur- rent Circuit / Low (for A/F sen- sor) (Bank 2 Sensor 1)	<ul> <li>Open or short in A/F sensor (bank 1, 2 sensor 1) circuit</li> <li>A/F sensor (bank 1, 2 sensor 1)</li> <li>A/F sensor heater</li> </ul>	0	0
P2242 *4 (05–447)	Oxygen Sensor Pumping Cur- rent Circuit / High (for A/F sen- sor) (Bank 2 Sensor 1)	<ul> <li>A/F sensor heater relay</li> <li>A/F sensor heater and relay circuit</li> <li>ECM</li> </ul>	0	0
P2251 *4 (05–447)	Oxygen Sensor Reference Ground Circuit / Open (for A/F sensor) (Bank 1 Sensor 1)		0	0
P2252 *4 (05–447)	Oxygen Sensor Reference Ground Circuit Low (for A/F sen- sor) (Bank 1 Sensor 1)		0	0
P2253 *4 (05–447)	Oxygen Sensor Reference Ground Circuit High (for A/F sen- sor) (Bank 1 Sensor 1)		0	0
P2254 *4 (05–447)	Oxygen Sensor Reference Ground Circuit / Open (for A/F sensor) (Bank 1 Sensor 1)		0	0

DIAGNOSTICS - SFI SYSTEM (1MZ-FE)

P2255 *4 (05–447)	Oxygen Sensor Reference Ground Circuit Low (for A/F sen- sor) (Bank 1 Sensor 1)	<ul> <li>Open or short in A/F sensor (bank 1, 2 sensor 1) circuit</li> <li>A/F sensor (bank 1, 2 sensor 1)</li> <li>A/F sensor heater</li> </ul>	0	0
P2256 *4 (05–447)	Oxygen Sensor Reference Ground Circuit High (for A/F sen- sor) (Bank 1 Sensor 1)	<ul> <li>A/F sensor heater relay</li> <li>A/F sensor heater and relay circuit</li> <li>ECM</li> </ul>	0	0
P2716 (05–724)	Pressure Control Solenoid "D" Electrical	Electronic controlled automatic transmission (ECT)	0	0
P2A00 (05–451)	A/F Sensor Circuit Slow Re- sponse (Bank 1 Sensor 1)	<ul> <li>Open or short in A/F sensor (bank 1, 2 sensor 1) circuit</li> <li>A/F sensor (bank 1, 2 sensor 1)</li> <li>A/F sensor heater</li> <li>A/F sensor heater relay</li> <li>A/F sensor heater relay</li> </ul>	0	0
P2A03 (05–451)	A/F Sensor Circuit Slow Re- sponse (Bank 2 Sensor 1)	<ul> <li>A/F sensor heater and relay circuit</li> <li>Air induction system</li> <li>Fuel pressure</li> <li>Injector</li> <li>ECM</li> </ul>	0	0
B2796 (05–1310)	No Communication in Immobiliz- er System	Immobilizer system	—	0
B2797 (05–1313)	Communication Malfunction No.1	Immobilizer system		0
B2798 (05–1313)	Communication Malfunction No.2	Immobilizer system		0

\*1: MIL lights up

\*2: MIL light up or blinking

\*3: Replace ECM

\*4: This DTC is recorded when A/F sensor is in a malfunction, although the detection item is oxygen sensor.