05284–12

DIAGNOSTIC TROUBLE CODE CHART

HINT:

- As for the vehicle for MEXICO, refer to Repair Manual 2003 COROLLA (Pub. No. RM938U).
- Parameters listed in the chart may not be exactly the same as your readings due to the type of instrument or other factors.¿

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

DTC No. (See Page)	Detection Item	Trouble Area	MIL*1	Memory
P0010 (05–44)	Camshaft Position ”A” Actuator Circuit (Bank 1)	• Open or short in oil control valve circuit • Oil control valve • ECM	○	○
P0011 (05–50)	Camshaft Position ”A” –Timing Over–Advanced or System Performance (Bank 1)	• Valve timing • Oil control valve • Camshaft timing gear assy • ECM	○	○
P0012 (05–50)	Camshaft Position ”A” –Timing Over– Retarded (Bank 1)		○	○
P0016 (05–58)	Crankshaft Position – Camshaft Position Correlation (Bank 1 Sensor A)	• Mechanical system (Timing chain has jumped a tooth, chain stretched) • ECM	○	○
P0031 (05–60)	Oxygen Sensor Heater Control Circuit Low (Bank 1 Sensor 1)	• Open or short in heater circuit of heated oxygen sensor • Heated oxygen sensor heater • EFI relay • ECM	○	○
P0032 (05–60)	Oxygen Sensor Heater Control Circuit High (Bank 1 Sensor 1)		○	○
P0037 (05–60)	Oxygen Sensor Heater Control Circuit Low (Bank 1 Sensor 2)		○	○
P0038 (05–60)	Oxygen Sensor Heater Control Circuit High (Bank 1 Sensor 2)		○	○
P0100 (05–65)	Mass or Volume Air Flow Circuit	• Open or short in mass air flow sensor circuit • Mass air flow sensor • ECM	○	○
P0101 (05–72)	Mass or Volume Air Flow Circuit Range/Performance Problem	• Mass air flow sensor	○	○
P0102 (05–65)	Mass or Volume Air Flow Circuit Low Input	• Open or short in mass air flow sensor circuit • Mass air flow sensor • ECM	○	○
P0103 (05–65)	Mass or Volume Air Flow Circuit High Input		○	○
P0110 (05–74)	Intake Air Temperature Circuit	• Open or short in intake air temperature sensor circuit • Intake air temperature sensor (built in mass air flow sensor) • ECM	○	○
P0112 (05–74)	Intake Air Temperature Circuit Low Input		○	○
P0113 (05–74)	Intake Air Temperature Circuit High Input		○	○
P0115 (05–80)	Engine Coolant Temperature Circuit	• Open or short in engine coolant temperature sensor circuit • Engine coolant temperature sensor • ECM	○	○
P0116 (05–85)	Engine Coolant Temperature Circuit Range/Performance Problem	• Cooling system • Engine coolant temperature sensor • Thermostat (water inlet)	○	○
P0117 (05–80)	Engine Coolant Temperature Circuit Low Input	• Open or short in engine coolant temperature sensor circuit • Engine coolant temperature sensor • ECM	○	○
P0118 (05–80)	Engine Coolant Temperature Circuit High Input		○	○
P0120 (05–87)	Throttle/Pedal Position Sensor/ Switch ”A” Circuit	• Throttle position sensor (built in throttle body) • ECM	○	○

DTC No. (See Page)	Detection Item	Trouble Area	MIL*1	Memory
P0121 (05–94)	Throttle/Pedal Position Sensor/ Switch "A" Circuit Range/Performance Problem	• Throttle position sensor (built in throttle body)	○	○
P0122 (05–87)	Throttle/Pedal Position Sensor/ Switch "A" Circuit Low Input	• Throttle position sensor (built in throttle body) • Short in VTA circuit • Open in VC circuit • ECM	○	○
P0123 (05–87)	Throttle/Pedal Position Sensor/ Switch "A" Circuit High Input	• Throttle position sensor (built in throttle body) • Open in VTA circuit • Open in E2 circuit • VC and VTA circuit are short–circuited • ECM	○	○
P0125 (05–96)	Insufficient Coolant Temperature for Closed Loop Fuel Control	• Cooling system • Engine coolant temperature sensor • Thermostat	○	○
P0128 (05–98)	Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature)	• Thermostat • Cooling system • Engine coolant temperature sensor • ECM	○	○
P0130 (05–101)	Oxygen Sensor Circuit (Bank 1 Sensor 1)	• Open or short in heated oxygen sensor (bank 1 sensor 1) circuit • Heated oxygen sensor (bank 1 sensor 1) • Heated oxygen sensor heater (bank 1 sensor 1) • EFI relay • Air induction system • Fuel pressure • Injector • ECM	○	○
P0133 (05–111)	Oxygen Sensor Circuit Slow Response (Bank 1 Sensor 1)	• Open or short in heated oxygen sensor (bank 1 sensor 1) circuit • Heated oxygen sensor (bank 1 sensor 1) • Heated oxygen sensor heater (bank 1 sensor 1) • EFI relay • Air induction system • Fuel pressure • Injector • ECM	○	○
P0134 (05–120)	Oxygen Sensor Circuit No Activity Detected (Bank 1 Sensor 1)	• Open or short in heated oxygen sensor (bank 1 sensor 1) circuit • Heated oxygen sensor (bank 1 sensor 1) • Heated oxygen sensor heater (bank 1 sensor 1) • EFI relay • Air induction system • Fuel pressure • PCV hose connection • PCV valve and hose • Injector • Gas leakage in exhaust system • PCV piping • ECM	○	○
P0136 (05–128)	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)	• Open or short in heated oxygen sensor (bank 1 sensor 2) circuit • Heated oxygen sensor (bank 1 sensor 2) • Heated oxygen sensor heater (bank 1 sensor 2) • EFI relay	○	○

DTC No. (See Page)	Detection Item	Trouble Area	MIL*1	Memory
P0171 (05–136)	System too Lean (Bank 1)	• Air induction system • Injector blockage • Mass air flow sensor • Engine coolant temperature sensor • Fuel pressure • Gas leakage in exhaust system • Open or short in heated oxygen sensor (bank 1, sensor 1) circuit • Heated oxygen sensor (bank 1, sensor 1) • Heated oxygen sensor heater (bank 1, sensor 1) • EFI relay • PCV valve and hose • PCV hose connection • ECM	○	○
P0172 (05–136)	System too Rich (Bank 1)	• Injector leak, blockage • Mass air flow sensor • Engine coolant temperature sensor • Ignition system • Fuel pressure • Gas leakage in exhaust system • Open or short in heated oxygen sensor (bank 1, sensor 1) circuit • Heated oxygen sensor (bank 1, sensor 1) • Heated oxygen sensor heater (bank 1, sensor 1) • EFI relay • ECM	○	○
P0300 (05–149)	Random/Multiple Cylinder Misfire Detected	• Open or short in engine wire • Connector connection • Vacuum hose connection • Ignition system • Injector • Fuel pressure • Mass air flow sensor • Engine coolant temperature sensor • Compression pressure • Valve clearance • Valve timing • PCV hose connection • PCV hose • ECM	○*2	○
P0301 (05–149)	Cylinder 1 Misfire Detected		○*2	○
P0302 (05–149)	Cylinder 2 Misfire Detected		○*2	○
P0303 (05–149)	Cylinder 3 Misfire Detected		○*2	○
P0304 (05–149)	Cylinder 4 Misfire Detected		○*2	○
P0325 (05–163)	Knock Sensor 1 Circuit (Bank 1 or Single Sensor)	• Open or short in knock sensor circuit • Knock sensor (under–torqued or loose) • ECM	○	○
P0327 (05–163)	Knock Sensor 1 Circuit Low Input (Bank 1 or Single Sensor)	• Open or short in knock sensor circuit • Knock sensor (under–torqued or loose) • ECM	○	○
P0328 (05–163)	Knock Sensor 1 Circuit High Input (Bank 1 or Single Sensor)	• Open or short in knock sensor circuit • Knock sensor (under–torqued or loose) • ECM	○	○
P0335 (05–168)	Crankshaft Position Sensor ”A” Circuit	• Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Signal plate (crankshaft) • ECM	○	○
P0339 (05–168)	Crankshaft Position Sensor ”A” Circuit Intermittent	• Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Signal plate (crankshaft) • ECM	—	○

DTC No. (See Page)	Detection Item	Trouble Area	MIL*1	Memory
P0340 (05–173)	Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)	• Open or short in camshaft position sensor circuit • Camshaft position sensor • Camshaft timing pulley • Timing chain has jumped a tooth • ECM	○	○
P0341 (05–173)	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sensor)	• Open or short in camshaft position sensor circuit • Camshaft position sensor • Camshaft timing pulley • Timing chain has jumped a tooth • ECM	○	○
P0351*3 (05–177)	Ignition Coil "A" Primary/Secondary Circuit	• Ignition system • Open or short in IGF or IGT circuit from ignition coil with igniter to ECM (ignition coil circuit 1 through 4) • Ignition coil with igniter (ignition coil circuit 1 through 4) • ECM	○	○
P0352*3 (05–177)	Ignition Coil "B" Primary/Secondary Circuit		○	○
P0353*3 (05–177)	Ignition Coil "C" Primary/Secondary Circuit		○	○
P0354*3 (05–177)	Ignition Coil "D" Primary/Secondary Circuit		○	○
P0420 (05–186)	Catalyst System Efficiency Below Threshold (Bank 1)	• Gas leakage in exhaust system • Heated oxygen sensor (bank 1 sensor 1, 2) • Three–way catalytic converter	○	○
P0441 (05–193)	Evaporative Emission Control System Incorrect Purge Flow	• Fuel tank cap incorrectly installed • Fuel tank cap cracked or damaged • Vacuum hose cracks, blocked, damaged or disconnected ((1), (2), (3), (4), (5), (6), (7), (8), (9), (10) and (11) in Fig. 1) • 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, or damaged • Charcoal canister cracked, or damaged • Fuel tank over fill check valve cracked damaged • ECM	○	○
P0442 (05–218)	Evaporative Emission Control System Leak detected (small leak)		○	○
P0446 (05–193)	Evaporative Emission Control System Vent Control Circuit	• Same as DTC No. P0441	○	○
P0451 (05–242)	Evaporative Emission Control System Pressure Sensor Range/Performance	• Open or short in vapor pressure sensor circuit • Vapor pressure sensor • ECM	○	○
P0452 (05–242)	Evaporative Emission Control System Pressure Sensor/Switch Low Input		○	○
P0453 (05–242)	Evaporative Emission Control System Pressure Sensor/Switch High Input		○	○
P0456 (05–218)	Evaporative Emission Control System Leak Detected (very small leak)	• Same as DTC No. P0442	○	○
P0500 (05–247)	Vehicle Speed Sensor "A"	• Open or short in speed sensor circuit • Speed sensor • Combination meter • ECM • Stability control ECU	○	○

DTC No. (See Page)	Detection Item	Trouble Area	MIL*1	Memory
P0505 (05–251)	Idle Air Control System	• Open or short in idle speed control (ISC) valve circuit • Idle speed control (ISC) valve is stuck or closed • A/C switch circuit • Air induction system • PCV valve and hose • ECM	○	○
P0511 (05–251)	Idle Air Control Circuit		○	○
P0560 (05–260)	System Voltage	• Open in back up power source circuit • ECM	○	○
P0606 (05–264)	ECM/PCM Processor	• ECM	○	○
P0617 (05–265)	Starter Relay Circuit High	• Short in Park/Neutral position switch circuit (A/T) • Park/Neutral position switch (A/T) • Clutch start switch (M/T) • ECM	○	○
P0705 (05–379)	Transmission Range Sensor Circuit Malfunction (PRNDL Input)	• Electronic controlled automatic transmission (ECT)	○	○
P0724 (05–384)	Brake Switch "B" Circuit High		○	○
P0741 (05–386)	Torque Converter Clutch Solenoid Performance (Shift Solenoid Valve SL)		○	○
P0751 (05–389)	Shift Solenoid "A" Performance (Shift Solenoid Valve S1)		○	○
P0756 (05–394)	Shift Solenoid "B" Performance (Shift Solenoid Valve S2)		○	○
P0850 (05–379)	Park/Neutral Switch Input Circuit		○	○
P0973 (05–402)	Shift Solenoid "A" Control Circuit Low (Shift Solenoid Valve S1)		○	○
P0974 (05–402)	Shift Solenoid "A" Control Circuit High (Shift Solenoid Valve S1)		○	○
P0976 (05–406)	Shift Solenoid "B" Control Circuit Low (Shift Solenoid Valve S1)		○	○
P0977 (05–406)	Shift Solenoid "B" Control Circuit High (Shift Solenoid Valve S1)		○	○
P2195 (05–101)	Oxygen Sensor Signal Stuck Lean (Bank 1 Sensor 1)	• Open or short in heated oxygen sensor (bank 1 sensor 1) circuit • Heated oxygen sensor (bank 1 sensor 1) • Heated oxygen sensor heater (bank 1 sensor 1) • EFI relay • Air induction system • Fuel pressure • Injector • ECM	○	○
P2196 (05–101)	Oxygen Sensor Signal Stuck Rich (Bank 1 Sensor 1)		○	○
P2716 (05–409)	Pressure Control Solenoid "D" Electrical	• Electronic controlled automatic transmission (ECT)	○	○
P2769 (05–413)	DSL Solenoid Circuit Low (Shift Solenoid Valve DSL)		○	○
P2770 (05–413)	DSL Solenoid Circuit High (Shift Solenoid Valve DSL)		○	○

*1: "○" ... MIL is illuminated, "—" ... MIL is not illuminated.
*2: MIL is illuminated or blinks
*3: This DTC is indicate a malfunction related to primary circuit.