DI1L4-23

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, refer to the "See page" under the respective "DTC No." in the DTC chart.

UNLEADED GASOLINE ENGINE:

DTC No. (See page)	Detection Item	Trouble Area	CHK *1 ENG	Memory
P0031 (DI-35)	Oxygen Sensor Heater Control Circuit Low (Bank 1 Sensor 1)	Open in heater circuit of heated oxygen sensor Heated oxygen sensor heater EFI or ECD relay Engine ECU		
P0032 (DI-35)	Oxygen Sensor Heater Control Circuit High (Bank 1 Sensor 1)	Short in heater circuit of heated oxygen sensor Heated oxygen sensor heater EFI or ECD relay Engine ECU		
P0037 (DI-35)	Oxygen Sensor Heater Control Circuit Low (Bank 1 Sensor 2)	Open in heater circuit of heated oxygen sensor Heated oxygen sensor heater EFI or ECD relay Engine ECU		
P0038 (DI-35)	Oxygen Sensor Heater Control Circuit High (Bank 1 Sensor 2)	Short in heater circuit of heated oxygen sensor Heated oxygen sensor heater EFI or ECD relay Engine ECU		
P0051 (DI-35)	Oxygen Sensor Heater Control Circuit Low (Bank 2 Sensor 1)	Open in heater circuit of heated oxygen sensor Heated oxygen sensor heater EFI or ECD relay Engine ECU		
P0052 (DI-35)	Oxygen Sensor Heater Control Circuit High (Bank 2 Sensor 1)	Short in heater circuit of heated oxygen sensor Heated oxygen sensor heater EFI or ECD relay Engine ECU		
P0057 (DI-35)	Oxygen Sensor Heater Control Circuit Low (Bank 2 Sensor 2)	Open in heater circuit of heated oxygen sensor Heated oxygen sensor heater EFI or ECD relay Engine ECU		
P0058 (DI-35)	Oxygen Sensor Heater Control Circuit High (Bank 2 Sensor 2)	Short in heater circuit of heated oxygen sensor Heated oxygen sensor heater EFI or ECD relay Engine ECU		
P0100 (DI-42)	Mass or Volume Air Flow Circuit	Open or short in mass air flow meter circuit Mass air flow meter Engine ECU		
P0102 (DI-42)	Mass or Volume Air Flow Circuit Low Input	Open or short in mass air flow meter circuit Mass air flow meter Engine ECU		
P0103 (DI-42)	Mass or Volume Air Flow Circuit High Input	Open or short in mass air flow meter circuit (+B circuit) Mass air flow meter Engine ECU		

	T		1
P0110 (DI-50)	Intake Air Temperature Circuit	Open or short in intake air temperature sensor circuit Intake air temperature sensor (built in mass air flow meter) Engine ECU	
P0112 (DI-50)	Intake Air Temperature Circuit Low Input	Open or short in intake air temperature sensor circuit Intake air temperature sensor (built in mass air flow meter) Engine ECU	
P0113 (DI-50)	Intake Air Temperature Circuit High Input	Open or short in intake air temperature sensor circuit Intake air temperature sensor (built in mass air flow meter) Engine ECU	
P0115 (DI-56)	Engine Coolant Temperature Circuit	Open or short in engine coolant temperature sensor circuit Engine coolant temperature sensor Engine ECU	
P0116 (DI-62)	Engine Coolant Temperature Circuit Range/Performance Problem	Engine coolant temperature sensor	
P0117 (DI-56)	Engine Coolant Temperature Circuit Low Input	Open or short in engine coolant temperature sensor circuit Engine coolant temperature sensor Engine ECU	
P0118 (DI-56)	Engine Coolant Temperature Circuit High Input	Open or short in engine coolant temperature sensor circuit Engine coolant temperature sensor Engine ECU	
P0120 (DI-63)	Throttle Pedal Position Sensor/ Switch "A" Circuit	Throttle control motor and sensor Engine ECU	
P0121 (DI-74)	Throttle/Pedal Position Sensor/ Switch "A" Circuit Range/Perfor- mance Problem	Throttle control motor and sensor	
P0122 (DI-63)	Throttle/Pedal Position Sensor/ Switch "A" Circuit Low Input	Throttle control motor and sensor Short in VTA1 circuit Open in VC circuit Engine ECU	
P0123 (DI-63)	Throttle/Pedal Position Sensor/ Switch "A" Circuit High Input	Throttle control motor and sensor Open in VTA1 circuit Open in E2 circuit VC and VTA1 circuit are short —circuited Engine ECU	
P0130* ³ (DI-75)	Oxygen Sensor Circuit (Bank 1 Sensor 1)	Open or short in heated oxygen sensor circuit Heated oxygen sensor heater Heated oxygen sensor heater EFI or ECD relay Air induction system Fuel pressure Injector Engine ECU	
P0133* ³ (DI–85)	Oxygen Sensor Circuit Slow Response (Bank 1 Sensor 1)	Open or short in heated oxygen sensor circuit Heated oxygen sensor heater Heated oxygen sensor heater EFI or ECD relay Air induction system Fuel pressure Injector Engine ECU	

P0134 (DI-95)	Oxygen Sensor Circuit No Activity Detected (Bank 1 Sensor 1)	Open or short in heated oxygen sensor circuit Heated oxygen sensor Heated oxygen sensor heater EFI or ECD relay Air induction system Fuel pressure PCV hose connection PCV valve and hose Injector Gas leakage on exhaust system PCV piping Engine ECU	
P0136 (DI-104)	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)	Open or short in heated oxygen sensor circuit Heated oxygen sensor Heated oxygen sensor heater EFI or ECD relay	
P0150* ³ (DI-75)	Oxygen Sensor Circuit (Bank 2 Sensor 1)	Open or short in heated oxygen sensor circuit Heated oxygen sensor Heated oxygen sensor heater EFI or ECD relay Air induction system Fuel pressure Injector Engine ECU	
P0153* ³ (DI-85)	Oxygen Sensor Circuit Slow Response (Bank 2 Sensor 1)	Open or short in heated oxygen sensor circuit Heated oxygen sensor Heated oxygen sensor heater EFI or ECD relay Air induction system Fuel pressure Injector Engine ECU	
P0154 (DI-95)	Oxygen Sensor Circuit No Activity Detected (Bank 2 Sensor 1)	Open or short in heated oxygen sensor circuit Heated oxygen sensor Heated oxygen sensor heater EFI or ECD relay Air induction system Fuel pressure PCV hose connection PCV valve and hose Injector Gas leakage on exhaust system PCV piping Engine ECU	
P0156 (DI-104)	Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 2)	Open or short in heated oxygen sensor circuit Heated oxygen sensor Heated oxygen sensor heater EFI or ECD relay	

P0171* ³ (DI-111)	System too Lean (Bank 1)	Air induction system Injector blockage Mass air flow meter Engine coolant temperature 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) Heated oxygen sensor heater EFI or ECD relay PCV piping Engine ECU	
P0172* ³ (DI-111)	System too Rich (Bank 1)	Injector leak, blockage Mass air flow meter 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) Engine ECU	
P0174* ³ (DI-111)	System too Lean (Bank 2)	Air induction system Injector blockage Mass air flow meter Engine coolant temperature 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) Heated oxygen sensor heater EFI or ECD relay PCV piping Engine ECU	
P0175* ³ (DI-111)	System too Rich (Bank 2)	Injector leak, blockage Mass air flow meter Engine coolant temperature 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) Engine ECU	
P0220 (DI-63)	Throttle/Pedal Position Sensor/ Switch "B" Circuit	Throttle control motor and sensor Engine ECU	
P0222 (DI-63)	Throttle/Pedal Position Sensor/ Switch "B" Circuit Low Input	Throttle control motor and sensor Short in VTA2 circuit Open in VC circuit Engine ECU	
P0223 (DI-63)	Throttle/Pedal Position Sensor/ Switch "B" Circuit High Input	Throttle control motor and sensor Open in VTA2 circuit Open in E2 circuit VC and VTA2 circuit are short —circuited Engine ECU	

P0230 (DI-125)	Fuel Pump Primary Circuit	S Open or short in fuel pump relay circuit S Fuel pump relay S Circuit opening relay S Fuel pump S Engine ECU	-	f
P0300* ³ (DI-130)	Random/Multiple Cylinder Misfire Detected		f* ²	f
P0301* ³ (DI-130)	Cylinder 1 Misfire Detected		f* ²	f
P0302* ³ (DI-130)	Cylinder 2 Misfire Detected	S Open or short in engine wire S Connector connection S Vacuum hose connection	f*2	f
P0303* ³ (DI-130)	Cylinder 3 Misfire Detected	S Ignition system S Injector	f*2	f
P0304* ³ (DI-130)	Cylinder 4 Misfire Detected	SFuel pressure SMass air flow meter	f *2	f
P0305* ³ (DI-130)	Cylinder 5 Misfire Detected	S Engine coolant temperature sensor S Compression pressure S Valve clearance	f *2	f
P0306*3 (DI-130)	Cylinder 6 Misfire Detected	S Valve clearance S Valve timing S PCV piping	f*2	f
P0307*3 (DI-130)	Cylinder 7 Misfire Detected	SEngine ECU	f *2	f
P0308* ³ (DI-130)	Cylinder 8 Misfire Detected		f *2	f
P0325 (DI-148)	Knock Sensor 1 Circuit (Bank 1 or Single Sensor)	S Open or short in knock sensor 1 circuit S Knock sensor 1 (looseness) S Engine ECU	f	f
P0330 (DI-148)	Knock Sensor 2 Circuit (Bank 2)	S Open or short in knock sensor 2 circuit S Knock sensor 2 (looseness) S Engine ECU	f	f
P0335 (DI-152)	Crankshaft Position Sensor "A" Circuit	S Open or short in crankshaft position sensor circuit S Crankshaft position sensor S Signal plate S Engine ECU	f	f
P0339 (DI-152)	Crankshaft Position Sensor "A" Circuit Intermittent	S Open or short in crankshaft position sensor circuit S Crankshaft position sensor S Signal plate S Engine ECU	-	f
P0340 (DI-157)	Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)	S Open or short in camshaft position sensor circuit S Camshaft position sensor	f	f
P0341 (DI-157)	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sensor)	SLH camshaft timing pulley SJumping teeth of timing belt SEngine ECU	f	f
P0351 (DI-161)	Ignition Coil "A" Primary/Secondary Circuit	S Open or short in IGF 1 and IGT 1 circuit from No. 1 ignition coil with igniter to engine ECU S No. 1 ignition coil with igniter S Ignition system S Engine ECU	f	f
P0352 (DI-161)	Ignition Coil "B" Primary/Secondary Circuit	S Open or short in IGF 2 and IGT 2 circuit from No. 2 ignition coil with igniter to engine ECU S No. 2 ignition coil with igniter S Ignition system S Engine ECU	f	f

Ignition Coil "C" Primary/Secondary Circuit	SOpen or short in IGF 2 and IGT 3 circuit from No. 3 ignition coil with igniter to engine ECU SNo. 3 ignition coil with igniter SIgnition system SEngine ECU	f	f
Ignition Coil "D" Primary/Secondary Circuit	SOpen or short in IGF 1 and IGT 4 circuit from No. 4 ignition coil with igniter to engine ECU S No. 4 ignition coil with igniter S Ignition system S Engine ECU	f	f
Ignition Coil "E" Primary/Secondary Circuit	S Open or short in IGF 2 and IGT 5 circuit from No. 5 ignition coil with igniter to engine ECU S No. 5 ignition coil with igniter S Ignition system S Engine ECU	f	f
Ignition Coil "F" Primary/Secondary Circuit	S Open or short in IGF 1 and IGT 6 circuit from No. 6 ignition coil with igniter to engine ECU S No. 6 ignition coil with igniter S Ignition system S Engine ECU	f	f
Ignition Coil "G" Primary/Secondary Circuit	S Open or short in IGF 1 and IGT 7 circuit from No. 7 ignition coil with igniter to engine ECU S No. 7 ignition coil with igniter S Ignition system S Engine ECU	f	f
Ignition Coil "H" Primary/Secondary Circuit	S Open or short in IGF 2 and IGT 8 circuit from No. 8 ignition coil with igniter to engine ECU S No. 8 ignition coil with igniter S Ignition system S Engine ECU	f	f
Catalyst System Efficiency Below Threshold (Bank 1)	SGas leakage on exhaust system SHeated oxygen sensor (bank 1 sensor 1, 2) SThree-way catalytic converter	f	f
Catalyst System Efficiency Below Threshold (Bank 2)	S Gas leakage on exhaust system S Heated oxygen sensor (bank 2 sensor 1, 2) S Three-way catalytic converter	f	f
Evaporative Emission Control System Purge Control Valve Cir- cuit	SVSV for EVAP SOpen or short in VSV circuit for EVAP SEngine ECU	f	f
Vehicle Speed Sensor "A"	S Combination meter S Open or short in vehicle speed sensor circuit	f	f
Vehicle Speed Sensor "A" Intermittent/Erratic/High	S Vehicle speed sensor S Engine ECU	-	f
Brake Switch "A"/"B" Correlation	SShort in stop lamp switch signal circuit SSTOP fuse SStop lamp switch SEngine ECU	-	f
Idle Air Control System	S Air induction system S Electric throttle control system S PCV hose connection	f	f
System Voltage	SBack-up power source circuit SEFI or ECD No. 1 fuse SEngine ECU	f	f
Internal Control Module Random Access Memory (RAM) Error	S Engine ECU	f	f
	Ignition Coil "D" Primary/Secondary Circuit Ignition Coil "E" Primary/Secondary Circuit Ignition Coil "F" Primary/Secondary Circuit Ignition Coil "G" Primary/Secondary Circuit Ignition Coil "H" Primary/Secondary Circuit Catalyst System Efficiency Below Threshold (Bank 1) Catalyst System Efficiency Below Threshold (Bank 2) Evaporative Emission Control System Purge Control Valve Circuit Vehicle Speed Sensor "A" Vehicle Speed Sensor "A" Vehicle Speed Sensor "A" Intermittent/Erratic/High Brake Switch "A"/"B" Correlation Idle Air Control System System Voltage Internal Control Module Random	Ignition Coll "C" Primary/Secondary Circuit Ignition Coll "D" Primary/Secondary Circuit Ignition Coll "D" Primary/Secondary Circuit Ignition Coll "E" Primary/Secondary Circuit Ignition Coll "F" Primary/Secondary Circuit Ignition Coll "G" Primary/Secondary Circuit Ignition Coll "H" Pri	Ignition Coil *C* Primary/Secondary Circuit Signition coil with igniter to engine ECU SNo. 3 ignition coil with igniter Signition coil with igniter

2UZ-FE ENGINE SUP (RM1113E)

P0606 (DI-199)	Engine ECU/PCM Processor	S Engine ECU	f	f
P0607 (DI-199)	Control Module Performance	S Engine ECU	f	f
P0617 (DI-200)	Starter Relay Circuit High	S Park/neutral position switch S Starter relay circuit S Ignition switch S Engine ECU	f	f
P0657 (DI-199)	Actuator Supply Voltage Circuit / Open	S Engine ECU	f	f
P2102 (DI-206)	Throttle Actuator Control Motor Circuit Low	S Open in throttle control motor and sensor circuit S Throttle control motor and sensor S Engine ECU	f	f
P2103 (DI-206)	Throttle Actuator Control Motor Circuit High	S Short in throttle control motor and sensor circuit S Throttle control motor and sensor S Throttle valve S Throttle body S Engine ECU	f	f
P2111 (DI-209)	Throttle Actuator Control System – Stuck Open	S Throttle control motor and sensor circuit S Throttle control motor and sensor S Throttle valve S Throttle body	f	f
P2112 (DI-209)	Throttle Actuator Control System – Stuck Closed	SThrottle control motor and sensor circuit SThrottle control motor and sensor SThrottle valve SThrottle body	f	f
P2118 (DI-212)	Throttle Actuator Control Motor Current Range/Performance	S Open in throttle control motor and sensor power source circuit SETCS fuse SEngine ECU	f	f
P2119 (DI-216)	Throttle Actuator Control Throttle Body Range/Performance	S Electric throttle control system S Throttle body	f	f
P2120 (DI-218)	Throttle/Pedal Position Sensor/ Switch "D" Circuit	S Accelerator pedal position sensor S Engine ECU	f	f
P2121 (DI-225)	Throttle/Pedal Position Sensor/ Switch "D" Circuit Range/Perfor- mance	S Accelerator pedal position sensor	f	f
P2122 (DI-218)	Throttle/Pedal Position Sensor/ Switch "D" Circuit Low Input	S Accelerator pedal position sensor S VCPA circuit open S VPA circuit open or ground short S Engine ECU	f	f
P2123 (DI-218)	Throttle/Pedal Position Sensor/ Switch "D" Circuit High Input	S Accelerator pedal position sensor SEPA circuit open SEngine ECU	f	f
P2125 (DI-218)	Throttle/Pedal Position Sensor/ Switch "E" Circuit	S Accelerator pedal position sensor S Engine ECU	f	f
P2127 (DI-218)	Throttle/Pedal Position Sensor/ Switch "E" Circuit Low Input	S Accelerator pedal position sensor S VCP2 circuit open S VPA2 circuit open or ground short S Engine ECU	f	f
P2128 (DI-218)	Throttle/Pedal Position Sensor/ Switch "E" Circuit High Input	S Accelerator pedal position sensor S EPA circuit open S Engine ECU	f	f

P2135 (DI-63)	Throttle Pedal Position Sensor/ Switch "A" / "B" Voltage Correla- tion	SVTA1 and VTA2 circuit are short-circuited SThrottle control motor and sensor SEngine ECU	f	f
P2138 (DI-218)	Throttle Pedal Position Sensor/ Switch "D" / "E" Voltage Correla- tion	SVPA and VPA2 circuit are short circuited SAccelerator pedal position sensor SEngine ECU	f	f
P2195* ³ (DI-75)	Oxygen Sensor Signal Stuck Lean (Bank 1 Sensor 1)	S Open or short in heated oxygen sensor circuit S Heated oxygen sensor	f	f
P2196* ³ (DI-75)	Oxygen Sensor Signal Stuck Rich (Bank 1 Sensor 1)	SHeated oxygen sensor heater SEFI or ECD relay	f	f
P2197* ³ (DI-75)	Oxygen Sensor Signal Stuck Lean (Bank 2 Sensor 1)	S Air induction system S Fuel pressure	f	f
P2198* ³ (DI-75)	Oxygen Sensor Signal Stuck Rich (Bank 2 Sensor 1)	S Injector S Engine ECU	f	f

^{*1: –} Check engine warning light does not light up.

f Check engine warning light lights up.

*2: Check engine warning light lights up or blinks.

*3: Europe only

LEADED GASOLINE ENGINE:

DTC No. (See page)	Detection Item	Trouble Area	CHK ENG ^{*1}	Memory
P0100/31 (DI-42)	Mass or Volume Air Flow Circuit	S Open or short in mass air flow meter circuit SMass air flow meter S Engine ECU	f	f
P0102/31 (DI-42)	Mass or Volume Air Flow Circuit Low Input	S Open or short in mass air flow meter circuit S Mass air flow meter S Engine ECU	f	f
P0103/31 (DI-42)	Mass or Volume Air Flow Circuit High Input	S Open or short in mass air flow meter circuit (+B circuit) S Mass air flow meter S Engine ECU	f	f
P0110/24 (DI-50)	Intake Air Temperature Circuit	S Open or short in intake air temperature sensor circuit S Intake air temperature sensor (built in mass air flow meter) S Engine ECU	f	f
P0112/24 (DI-50)	Intake Air Temperature Circuit Low Input	S Open or short in intake air temperature sensor circuit S Intake air temperature sensor (built in mass air flow meter) S Engine ECU	f	f
P0113/24 (DI-50)	Intake Air Temperature Circuit High Input	S Open or short in intake air temperature sensor circuit S Intake air temperature sensor (built in mass air flow meter) S Engine ECU	f	f
P0115/22 (DI-56)	Engine Coolant Temperature Circuit	S Open or short in engine coolant temperature sensor circuit S Engine coolant temperature sensor S Engine ECU	f	f
P0117/22 (DI-56)	Engine Coolant Temperature Circuit Low Input	S Open or short in engine coolant temperature sensor circuit S Engine coolant temperature sensor S Engine ECU	f	f
P0118/22 (DI-56)	Engine Coolant Temperature Circuit High Input	S Open or short in engine coolant temperature sensor circuit S Engine coolant temperature sensor S Engine ECU	f	f
P0120/41 (DI-63)	Throttle Pedal Position Sensor/ Switch "A" Circuit	SThrottle control motor and sensor SEngine ECU	f	f
P0121/41 (DI-74)	Throttle/Pedal Position Sensor/ Switch "A" Circuit Range/Perfor- mance Problem	SThrottle control motor and sensor	f	f
P0122/41 (DI-63)	Throttle/Pedal Position Sensor/ Switch "A" Circuit Low Input	SThrottle control motor and sensor SShort in VTA1 circuit SOpen in VC circuit SEngine ECU	f	f
P0123/41 (DI-63)	Throttle/Pedal Position Sensor/ Switch "A" Circuit High Input	SThrottle control motor and sensor SOpen in VTA1 circuit SOpen in E2 circuit SVC and VTA1 circuit are short-circuited SEngine ECU	f	f
P0220/41 (DI-63)	Throttle/Pedal Position Sensor/ Switch "B" Circuit	SThrottle control motor and sensor SEngine ECU	f	f
P0222/41 (DI-63)	Throttle/Pedal Position Sensor/ Switch "B" Circuit Low Input	SThrottle control motor and sensor SShort in VTA2 circuit SOpen in VC circuit SEngine ECU	f	f

P0223/41 (DI-63)	Throttle/Pedal Position Sensor/ Switch "B" Circuit High Input	SThrottle control motor and sensor SOpen in VTA2 circuit SOpen in E2 circuit SVC and VTA2 circuit are short-circuited SEngine ECU	f	f
P0230/78 (DI-125)	Fuel Pump Primary Circuit	S Open or short in fuel pump relay circuit S Fuel pump relay S Circuit opening relay S Fuel pump S Engine ECU	-	f
P0325//52 (DI-148)	Knock Sensor 1 Circuit (Bank 1 or Single Sensor)	S Open or short in knock sensor 1 circuit S Knock sensor 1 (looseness) S Engine ECU	f	f
P0330/55 (DI-148)	Knock Sensor 2 Circuit (Bank 2)	S Open or short in knock sensor 2 circuit S Knock sensor 2 (looseness) S Engine ECU	f	f
P0335/12, 13 (DI-152)	Crankshaft Position Sensor "A" Circuit	S Open or short in crankshaft position sensor circuit S Crankshaft position sensor S Signal plate S Engine ECU	f	f
P0339/13 (DI-152)	Crankshaft Position Sensor "A" Circuit Intermittent	S Open or short in crankshaft position sensor circuit S Crankshaft position sensor S Signal plate S Engine ECU	-	f
P0340/12 (DI-157)	Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)	S Open or short in camshaft position sensor circuit S Camshaft position sensor	f	f
P0341/12 (DI-157)	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sensor)	SLH camshaft timing pulley SJumping teeth of timing belt SEngine ECU	f	f
P0351/14 (DI-161)	Ignition Coil "A" Primary/Secondary Circuit	S Open or short in IGF 1 and IGT 1 circuit from No. 1 ignition coil with igniter to engine ECU S No. 1 ignition coil with igniter S Ignition system S Engine ECU	f	f
P0352/14 (DI-161)	Ignition Coil "B" Primary/Secondary Circuit	S Open or short in IGF 2 and IGT 2 circuit from No. 2 ignition coil with igniter to engine ECU S No. 2 ignition coil with igniter S Ignition system S Engine ECU	f	f
P0353/15 (DI-161)	Ignition Coil "C" Primary/Secondary Circuit	S Open or short in IGF 2 and IGT 3 circuit from No. 3 ignition coil with igniter to engine ECU S No. 3 ignition coil with igniter S Ignition system S Engine ECU	f	f
P0354/15 (DI-161)	Ignition Coil "D" Primary/Secondary Circuit	S Open or short in IGF 1 and IGT 4 circuit from No. 4 ignition coil with igniter to engine ECU S No. 4 ignition coil with igniter S Ignition system S Engine ECU	f	f
P0355/14 (DI-161)	Ignition Coil "E" Primary/Secondary Circuit	S Open or short in IGF 2 and IGT 5 circuit from No. 5 ignition coil with igniter to engine ECU S No. 5 ignition coil with igniter S Ignition system S Engine ECU	f	f

		T		
P0356/14 (DI-161)	Ignition Coil "F" Primary/Secondary Circuit	S Open or short in IGF 1 and IGT 6 circuit from No. 6 ignition coil with igniter to engine ECU S No. 6 ignition coil with igniter S Ignition system S Engine ECU	f	f
P0357/15 (DI–161)	Ignition Coil "G" Primary/Secondary Circuit	S Open or short in IGF 1 and IGT 7 circuit from No. 7 ignition coil with igniter to engine ECU S No. 7 ignition coil with igniter S Ignition system S Engine ECU	f	f
P0358/15 (DI–161)	Ignition Coil "H" Primary/Secondary Circuit	S Open or short in IGF 2 and IGT 8 circuit from No. 8 ignition coil with igniter to engine ECU S No. 8 ignition coil with igniter S Ignition system S Engine ECU	f	f
P0500/42 (DI-182)	Vehicle Speed Sensor "A"	S Combination meter S Open or short in vehicle speed sensor circuit S Vehicle speed sensor S Engine ECU	f	f
P0504/51 (DI-185)	Brake Switch "A"/"B" Correlation	S Short in stop lamp switch signal circuit S STOP fuse S Stop lamp switch S Engine ECU	ı	f
P0604/89 (DI-199)	Internal Control Module Random Access Memory (RAM) Error	S Engine ECU	f	f
P0606/89 (DI-199)	Engine ECU/PCM Processor	SEngine ECU	f	f
P0607/89 (DI-199)	Control Module Performance	S Engine ECU	f	f
P0657/89 (DI-199)	Actuator Supply Voltage Circuit / Open	S Engine ECU	f	f
P2102/41 (DI-206)	Throttle Actuator Control Motor Circuit Low	S Open in throttle control motor and sensor circuit S Throttle control motor and sensor S Engine ECU	f	f
P2103/41 (DI-206)	Throttle Actuator Control Motor Circuit High	S Short in throttle control motor and sensor circuit S Throttle control motor and sensor S Throttle valve S Throttle body S Engine ECU	f	f
P2111/41 (DI-209)	Throttle Actuator Control System - Stuck Open	S Throttle control motor and sensor circuit S Throttle control motor and sensor S Throttle valve S Throttle body	f	f
P2112/41 (DI-209)	Throttle Actuator Control System - Stuck Closed	SThrottle control motor and sensor circuit SThrottle control motor and sensor SThrottle valve SThrottle body	f	f
P2118/89 (DI-212)	Throttle Actuator Control Motor Current Range/Performance	S Open in throttle control motor and sensor power source circuit SETCS fuse SEngine ECU	f	f
P2119/89 (DI-216)	Throttle Actuator Control Throttle Body Range/Performance	S Electric throttle control system S Throttle body	f	f
P2120/19 (DI-218)	Throttle/Pedal Position Sensor/ Switch "D" Circuit	S Accelerator pedal position sensor S Engine ECU	f	f

P2121/19 (DI-225)	Throttle/Pedal Position Sensor/ Switch "D" Circuit Range/Perfor- mance	S Accelerator pedal position sensor	f	f
P2122/19 (DI-218)	Throttle/Pedal Position Sensor/ Switch "D" Circuit Low Input	S Accelerator pedal position sensor S VCPA circuit open S VPA circuit open or ground short S Engine ECU	f	f
P2123/19 (DI-218)	Throttle/Pedal Position Sensor/ Switch "D" Circuit High Input	S Accelerator pedal position sensor SEPA circuit open SEngine ECU	f	f
P2125/19 (DI-218)	Throttle/Pedal Position Sensor/ Switch "E" Circuit	S Accelerator pedal position sensor S Engine ECU	f	f
P2127/19 (DI-218)	Throttle/Pedal Position Sensor/ Switch "E" Circuit Low Input	S Accelerator pedal position sensor S VCP2 circuit open S VPA2 circuit open or ground short S Engine ECU	f	f
P2128/19 (DI-218)	Throttle/Pedal Position Sensor/ Switch "E" Circuit High Input	S Accelerator pedal position sensor SEPA circuit open SEngine ECU	f	f
P2135/41 (DI-63)	Throttle Pedal Position Sensor/ Switch "A" / "B" Voltage Correla- tion	SVTA1 and VTA2 circuit are short-circuited SThrottle control motor and sensor SEngine ECU	f	f
P2138/19 (DI-218)	Throttle Pedal Position Sensor/ Switch "D" / "E" Voltage Correla- tion	SVPA and VPA2 circuit are short circuited SAccelerator pedal position sensor SEngine ECU	f	f

^{*1: -} Check engine warning light does not lights up.

f Check engine warning light lights up.

ETCS Trouble Codes

DTC No. (See Page)	Detection Item	Trouble Area	ETCS* 2nd START*	Memory
21 (DI-206)	Throttle Control Motor Circuit Malfunction	SSame as DTC No. P2102/41	f	f
23 (DI-212)	ETCS Actuator Power Source Circuit Malfunction	SSame as DTC No. P2118/89	f	f
24 (DI-212)	ETCS Actuator Power Source Circuit Malfunction	SSame as DTC No. P2103/41	f	f
31 (DI-209)	Throttle Control Motor Lock Malfunction	SSame as DTC No. P2111/89, P2112/89	f	f
32, 38, 39 (DI-216)	Electric Throttle Control System Malfunction	SSame as DTC No. P2119/89	f	f
33, 36 (DI-199)	ECU Malfunction (ETCS)	SSame as DTC No. P0606/89	f	f
34, 35 (DI-199)	Control Module Performance	SSame as DTC No. P0607/89	f	f

^{*:} f ... Check ETCS indicator light (M/T) or 2nd START indicator light (A/T) lights up

^{*2:} Check engine warning light lights up or blinks.