

SAE/OBD codes	System
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P0100	Mass air flow sensor - circuit malfunction
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Possible causes and trouble location:

Air flow sensor - open or short circuit
 Engine control unit
 Air flow sensor

P0101	Air flow sensor - range/performance
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Possible causes and trouble location:

Air flow sensor

P0110	Intake air temperature sensor (B1) - circuit malfunction
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Possible causes and trouble location:

Intake air temperature sensor - open or short circuit
 Intake air temperature sensor (built into mass air flow meter)
 Engine control unit

P0116	Coolant temperature sensor - range/performance
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Possible causes and trouble location:

Cooling system
 Coolant temperature sensor

P0120	Throttle position sensor / accelerator pedal position sensor / switch (A) - malfunction
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Possible causes and trouble location:

Throttle position sensor - open or short circuit
 Throttle position sensor
 Engine control unit

P0125	Engine coolant temperature insufficient for closed loop
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Possible causes and trouble location:

Air fuel ratio sensor (B1S1) - open or short circuit
 Air fuel ratio sensor (B1S1)
 PCV hose and PCV valve
 Air intake system
 Fuel pressure
 Injector
 Exhaust gas leaks
 Engine control unit

P0128	Thermostat (engine coolant temperature below thermostat regulating temperature)
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Possible causes and trouble location:

Cooling system
 Engine control unit
 Coolant temperature sensor
 Thermostat

P0136	Oxygen sensor (B1S2) - circuit malfunction
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Possible causes and trouble location:

Oxygen sensor - open or short circuit
 Oxygen sensor

Make: TOYOTA 4RUNNER
 System: Engine management system
 Configuration: STD

Model: 4RUNNER VZN180
 Item: 5VZ-FE 183/4800
 Production date: -08.2002

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Possible causes and trouble location:

Oxygen sensor - open or short circuit
Oxygen sensor

P0141	Oxygen sensor (B1S2) - heater circuit
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Possible causes and trouble location:

Oxygen sensor - open or short circuit
Oxygen sensor

P0171	Mixture too lean (B1)
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Possible causes and trouble location:

Air fuel ratio sensor (B1S1) - open or short circuit
Air fuel ratio sensor (B1S1)
Air intake system
Injector blockage
Coolant temperature sensor
Fuel pressure
Exhaust gas leaks
PCV hose and PCV valve
Engine control unit
Air flow sensor

P0300	Random/multiple cylinder misfire detected
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Possible causes and trouble location:

Engine wiring - open or short circuit
Vacuum piping (loose or damage)
Injector
Ignition
Fuel pressure
Air flow sensor
Coolant temperature sensor
Compression pressure
Valve clearance
Valve timing
PCV hose and PCV valve
Engine control unit
Connectors

P0301	Cylinder 1 misfire detected
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Possible causes and trouble location:

Engine wiring - open or short circuit
Vacuum piping (loose or damage)
Injector
Ignition
Fuel pressure
Air flow sensor
Coolant temperature sensor
Compression pressure
Valve clearance
Valve timing
PCV hose and PCV valve
Engine control unit
Connectors

P0302	Cylinder 2 misfire detected
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Possible causes and trouble location:

Engine wiring - open or short circuit
 Vacuum piping (loose or damage)
 Injector
 Ignition
 Fuel pressure
 Air flow sensor
 Coolant temperature sensor
 Compression pressure
 Valve clearance
 Valve timing
 PCV hose and PCV valve
 Engine control unit
 Connectors

P0303	Cylinder 3 misfire detected
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Possible causes and trouble location:

Engine wiring - open or short circuit
 Vacuum piping (loose or damage)
 Injector
 Ignition
 Fuel pressure
 Air flow sensor
 Coolant temperature sensor
 Compression pressure
 Valve clearance
 Valve timing
 PCV hose and PCV valve
 Engine control unit
 Connectors

P0304	Cylinder 4 misfire detected
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Possible causes and trouble location:

Engine wiring - open or short circuit
 Vacuum piping (loose or damage)
 Injector
 Ignition
 Fuel pressure
 Air flow sensor
 Coolant temperature sensor
 Compression pressure
 Valve clearance
 Valve timing
 PCV hose and PCV valve
 Engine control unit
 Connectors

P0305	Cylinder 5 misfire
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Possible causes and trouble location:

Engine wiring - open or short circuit
 Vacuum piping (loose or damage)
 Injector
 Ignition
 Fuel pressure
 Air flow sensor
 Coolant temperature sensor
 Compression pressure
 Valve clearance
 Valve timing

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PCV hose and PCV valve
Engine control unit
Connectors

P0306	Cylinder 6 misfire
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Possible causes and trouble location:

Engine wiring - open or short circuit
Vacuum piping (loose or damage)
Injector
Ignition
Fuel pressure
Air flow sensor
Coolant temperature sensor
Compression pressure
Valve clearance
Valve timing
PCV hose and PCV valve
Engine control unit
Connectors

P0325	Knock sensor (B1) - circuit malfunction
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Possible causes and trouble location:

Knock sensor 1 - open or short circuit
Knock Sensor 1 - loose
Engine control unit

P0330	Knock sensor (B2) - circuit malfunction
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Possible causes and trouble location:

Knock sensor 2 - open or short circuit
Knock Sensor 2 - loose
Engine control unit

P0335	Crankshaft position sensor - circuit malfunction
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Possible causes and trouble location:

Crankshaft position sensor rotor
Crankshaft position sensor - open or short circuit
Engine control unit
Crankshaft position sensor

P0340	Camshaft position sensor - circuit malfunction
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Possible causes and trouble location:

Camshaft sprocket (RH)
Camshaft position sensor
Camshaft position sensor - open or short circuit
Engine control unit

P0500	Vehicle speed sensor
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Possible causes and trouble location:

Speedometer cable
Speed signal - open or short circuit
Engine control unit

P0505	Idle speed control (ISC) system
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Possible causes and trouble location:

PCV hose and PCV valve
Electric throttle control system
Air intake system

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Possible causes and trouble location:

Accelerator pedal position sensor - open or short circuit
Accelerator pedal position sensor
Engine control unit

P1120	Accelerator pedal position sensor circuit malfunction
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Possible causes and trouble location:

Accelerator pedal position sensor - open or short circuit
Accelerator pedal position sensor
Engine control unit

P1121	Accelerator pedal position sensor - range / performance
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Possible causes and trouble location:

Accelerator pedal position sensor

P1125	Throttle actuator control motor - malfunction
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Possible causes and trouble location:

Throttle control motor - open or short circuit
Throttle actuator control motor
Engine control unit

P1126	Magnetic clutch - circuit malfunction
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Possible causes and trouble location:

Magnet clutch - open or short circuit
Magnetic clutch
Engine control unit

P1127	Throttle control actuator - malfunction
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Possible causes and trouble location:

ETCS supply circuit open
Engine control unit

P1128	Throttle actuator control motor - lock
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Possible causes and trouble location:

Throttle body
Throttle actuator control motor

P1129	Electric throttle control system - malfunction
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Possible causes and trouble location:

Electric throttle control system
Engine control unit

P1130	Air fuel ratio sensor (S1) - range / performance
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Possible causes and trouble location:

Air fuel ratio sensor - open or short circuit
Air fuel ratio sensor
Air intake system
Fuel pressure
Injector
Engine control unit

P1133	Air fuel ratio sensor (B1S1) - response
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Possible causes and trouble location:

Air fuel ratio sensor - open or short circuit

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Injector
Air intake system
Fuel pressure
Engine control unit
Air fuel ratio sensor

P1135	Air fuel ratio sensor (B1S1) - heater
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Possible causes and trouble location:

Air fuel ratio sensor heater - open or short circuit
Air fuel ratio sensor heater
Engine control unit

P1300	Igniter - malfunction
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Possible causes and trouble location:

IGT or IGF - open or short circuit
Igniter
Ignition
Ignition coil
Engine control unit

P1335	Crankshaft position sensor - malfunction
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Possible causes and trouble location:

Crankshaft position sensor - open or short circuit
Sensor rotor
Crankshaft position sensor
Engine control unit

P1520	Stop-lamp switch - signal fault
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Possible causes and trouble location:

Stop-lamp switch - open or short circuit
Stop lamp switch
Engine control unit

P1600	Engine control unit power supply
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Possible causes and trouble location:

Back up power supply circuit open
Engine control unit

P1633	ECM malfunction (ETCS circuit)
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Possible causes and trouble location:

Engine control unit

P1780	Start inhibitor switch
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Possible causes and trouble location:

Short in park/neutral position switch circuit
Start inhibitor switch
Engine control unit