



P00xx OBD-II Trouble Codes

This is the listing of P00xx OBD-II diagnostic trouble codes (DTCs). They all start with P00 (e.g. P0022, P0093, etc.), the first letter P designates they are powertrain related codes, the next digits 00 indicates they are fuel & air metering and auxiliary emission control related codes. The codes below are considered generic because they apply to all OBD-II makes/models of vehicles, although specific diagnosis repair steps may vary.

We have literally thousands more codes listed on the site, use the links below to go to the other code listings. If you can't find what you need, please use our [search](#) or ask a question in the [forums](#).

Quick links to other trouble codes (starts with): [P00xx](#) : [P01xx](#) : [P02xx](#) : [P03xx](#) : [P04xx](#) : [P05xx](#) : [P06xx](#) : [P07xx](#) : [P08xx](#) : [P09xx](#) : [P0Axx](#) : [P0Bxx](#) : [P0Cxx](#) : [P1***](#) : [P20xx](#) : [P21xx](#) : [P22xx](#) : [P23xx](#) : [P24xx](#) : [P25xx](#) : [P26xx](#) : [P27xx](#) : [P28/P29/P2A/P2B](#) : [P34xx](#)

For all other codes not listed in the links above or below, see our main [trouble codes listing](#).

OBD-II Codes P0001-P00BF - Fuel & Air Metering and Auxiliary Emission Controls

- [**P0000 ISO/SAE Reserved**](#)
- [**P0001 Fuel Volume Regulator Control Circuit/Open**](#)
- [**P0002 Fuel Volume Regulator Control Circuit Range/Performance**](#)
- [**P0003 Fuel Volume Regulator Control Circuit Low**](#)
- [**P0004 Fuel Volume Regulator Control Circuit High**](#)
- [**P0005 Fuel Shutoff Valve "A" Control Circuit/Open**](#)
- [**P0006 Fuel Shutoff Valve "A" Control Circuit Low**](#)
- [**P0007 Fuel Shutoff Valve "A" Control Circuit High**](#)
- [**P0008 Engine Positions System Performance Bank 1**](#)
- [**P0009 Engine Position System Performance Bank 2**](#)
- [**P000A "A" Camshaft Position Slow Response Bank 1**](#)
- [**P000B "B" Camshaft Position Slow Response Bank 1**](#)

- P000C "A" Camshaft Position Slow Response Bank 2
- P000D "B" Camshaft Position Slow Response Bank 2
- P000E Fuel Volume Regulator Control Exceeded Learning Limit
- P000F Fuel System Over Pressure Relief Valve Activated
- P0010 "A" Camshaft Position Actuator Circuit (Bank 1)
- P0011 "A" Camshaft Position - Timing Over-Advanced or System Performance (Bank 1)
- P0012 "A" Camshaft Position - Timing Over-Retarded (Bank 1)
- P0013 "B" Camshaft Position - Actuator Circuit (Bank 1)
- P0014 "B" Camshaft Position - Timing Over-Advanced or System Performance (Bank 1)
- P0015 "B" Camshaft Position -Timing Over-Retarded (Bank 1)
- P0016 Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)
- P0017 Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor B)
- P0018 Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor A)
- P0019 Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor B)
- P001A "A" Camshaft Profile Control Circuit/Open Bank 1
- P001B "A" Camshaft Profile Control Circuit Low Bank 1
- P001C "A" Camshaft Profile Control Circuit High Bank 1
- P001D "A" Camshaft Profile Control Circuit/Open Bank 2
- P001E "A" Camshaft Profile Control Circuit Low Bank 2
- P001F "A" Camshaft Profile Control Circuit High Bank 2
- P0020 "A" Camshaft Position Actuator Circuit (Bank 2)
- P0021 "A" Camshaft Position - Timing Over-Advanced or System Performance (Bank 2)
- P0022 "A" Camshaft Position - Timing Over-Retarded (Bank 2)
- P0023 "B" Camshaft Position - Actuator Circuit (Bank 2)
- P0024 "B" Camshaft Position - Timing Over-Advanced or System Performance (Bank 2)
- P0025 "B" Camshaft Position - Timing Over-Retarded (Bank 2)
- P0026 Intake Valve Control Solenoid Circuit Range/Performance Bank 1
- P0027 Exhaust Valve Control solenoid Circuit Range/Performance Bank 1
- P0028 Intake valve Control Solenoid Circuit Range/Performance Bank 2
- P0029 Exhaust Valve Control Solenoid Circuit Range/Performance Bank 2
- P002A "B" Camshaft Profile Control Circuit/Open Bank 1
- P002B "B" Camshaft Profile Control Circuit Low Bank 1
- P002C "B" Camshaft Profile Control Circuit High Bank 1
- P002D "B" Camshaft Profile Control Circuit/Open Bank 2
- P002E "B" Camshaft Profile Control Circuit Low Bank 2
- P002F "B" Camshaft Profile Control Circuit High Bank 2
- P0030 HO2S Heater Control Circuit (Bank 1 Sensor 1)
- P0031 HO2S Heater Control Circuit Low (Bank 1 Sensor 1)
- P0032 HO2S Heater Control Circuit High (Bank 1 Sensor 1)
- P0033 Turbo Charger Bypass Valve Control Circuit
- P0034 Turbo Charger Bypass Valve Control Circuit Low
- P0035 Turbo Charger Bypass Valve Control Circuit High

- P0036 HO2S Heater Control Circuit (Bank 1 Sensor 2)
- P0037 HO2S Heater Control Circuit Low (Bank 1 Sensor 2)
- P0038 HO2S Heater Control Circuit High (Bank 1 Sensor 2)
- P0039 Turbo/Super Charger Bypass Valve Control Circuit Range/Performance
- P003A Turbocharger/Supercharger Boost Control "A" Position Exceeded Learning Limit
- P003B Turbocharger/Supercharger Boost Control "B" Position Exceeded Learning Limit
- P003C "A" Camshaft Profile Control Performance/Stuck Off Bank 1
- P003D "A" Camshaft Profile Control Stuck On Bank 1
- P003E "A" Camshaft Profile Control Performance/Stuck Off Bank 2
- P003F "A" Camshaft Profile Control Stuck On Bank 2
- P0040 Upstream Oxygen Sensors Swapped From Bank To Bank
- P0041 Downstream Oxygen Sensors Swapped From Bank To Bank
- P0042 HO2S Heater Control Circuit (Bank 1 Sensor 3)
- P0043 HO2S Heater Control Circuit Low (Bank 1 Sensor 3)
- P0044 HO2S Heater Control Circuit High (Bank 1 Sensor 3)
- P0045 Turbocharger/Supercharger Boost Control "A" Circuit/Open
- P0046 Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance
- P0047 Turbocharger/Supercharger Boost Control "A" Circuit Low
- P0048 Turbocharger/Supercharger Boost Control "A" Circuit High
- P0049 Turbocharger/Supercharger Turbine Overspeed
- P004A Turbocharger/Supercharger Boost Control "B" Circuit/Open
- P004B Turbocharger/Supercharger Boost Control "B" Circuit Range/Performance
- P004C Turbocharger/Supercharger Boost Control "B" Circuit Low
- P004D Turbocharger/Supercharger Boost Control "B" Circuit High
- P004E Turbocharger/Supercharger Boost Control "A" Circuit Intermittent/Erratic
- P004F Turbocharger/Supercharger Boost Control "B" Circuit Intermittent/Erratic
- P0050 HO2S Heater Control Circuit (Bank 2 Sensor 1)
- P0051 HO2S Heater Control Circuit Low (Bank 2 Sensor 1)
- P0052 HO2S Heater Control Circuit High (Bank 2 Sensor 1)
- P0053 HO2S Heater Resistance (Bank 1, Sensor 1)
- P0054 HO2S Heater Resistance (Bank 1, Sensor 2)
- P0055 HO2S Heater Resistance (Bank 1, Sensor 3)
- P0056 HO2S Heater Control Circuit (Bank 2 Sensor 2)
- P0057 HO2S Heater Control Circuit Low (Bank 2 Sensor 2)
- P0058 HO2S Heater Control Circuit High (Bank 2 Sensor 2)
- P0059 HO2S Heater Resistance (Bank 2, Sensor 1)
- P005A "B" Camshaft Profile Control Performance/Stuck Off Bank 1
- P005B "B" Camshaft Profile Control Stuck On Bank 1
- P005C "B" Camshaft Profile Control Performance/Stuck Off Bank 2
- P005D "B" Camshaft Profile Control Stuck On Bank 2
- P005E Turbocharger/Supercharger Boost Control "B" Supply Voltage Circuit Low
- P005F Turbocharger/Supercharger Boost Control "B" Supply Voltage Circuit High
- P0060 HO2S Heater Resistance (Bank 2, Sensor 2)
- P0061 HO2S Heater Resistance (Bank 2, Sensor 3)

- P0062 HO2S Heater Control Circuit (Bank 2 Sensor 3)
- P0063 HO2S Heater Control Circuit Low (Bank 2 Sensor 3)
- P0064 HO2S Heater Control Circuit High (Bank 2 Sensor 3)
- P0065 Air Assisted Injector Control Range/Performance
- P0066 Air Assisted Injector Control Circuit or Circuit Low
- P0067 Air Assisted Injector Control Circuit High
- P0068 MAP/MAF - Throttle Position Correlation
- P0069 Manifold Absolute Pressure - Barometric Pressure Correlation
- P006A MAP - Mass or Volume Air Flow Correlation Bank 1
- P006B MAP - Exhaust Pressure Correlation
- P006C MAP - Turbocharger/Supercharger Inlet Pressure Correlation
- P006D Barometric Pressure - Turbocharger/Supercharger Inlet Pressure Correlation
- P006E Turbocharger/Supercharger Boost Control "A" Supply Voltage Circuit Low
- P006F Turbocharger/Supercharger Boost Control "A" Supply Voltage Circuit High
- P0070 Ambient Air Temperature Sensor Circuit
- P0071 Ambient Air Temperature Sensor Range/Performance
- P0072 Ambient Air Temperature Sensor Circuit Low Input
- P0073 Ambient Air Temperature Sensor Circuit High Input
- P0074 Ambient Air Temperature Sensor Circuit Intermittent
- P0075 Intake Valve Control Solenoid Circuit (Bank 1)
- P0076 Intake Valve Control Solenoid Circuit Low (Bank 1)
- P0077 Intake Valve Control Solenoid Circuit High (Bank 1)
- P0078 Exhaust Valve Control Solenoid Circuit (Bank 1)
- P0079 Exhaust Valve Control Solenoid Circuit Low (Bank 1)
- P007A Charge Air Cooler Temperature Sensor Circuit Bank 1
- P007B Charge Air Cooler Temperature Sensor Circuit Range/Performance Bank 1
- P007C Charge Air Cooler Temperature Sensor Circuit Low Bank 1
- P007D Charge Air Cooler Temperature Sensor Circuit High Bank 1
- P007E Charge Air Cooler Temperature Sensor Circuit Intermittent/Erratic Bank 1
- P007F Charge Air Cooler Temperature Sensor Bank1/Bank2 Correlation
- P0080 Exhaust Valve Control Solenoid Circuit High (Bank 1)
- P0081 Intake valve Control Solenoid Circuit (Bank 2)
- P0082 Intake Valve Control Solenoid Circuit Low (Bank 2)
- P0083 Intake Valve Control Solenoid Circuit High (Bank 2)
- P0084 Exhaust Valve Control Solenoid Circuit (Bank 2)
- P0085 Exhaust Valve Control Solenoid Circuit Low (Bank 2)
- P0086 Exhaust Valve Control Solenoid Circuit High (Bank 2)
- P0087 Fuel Rail/System Pressure - Too Low
- P0088 Fuel Rail/System Pressure - Too High
- P0089 Fuel Pressure Regulator 1 Performance
- P008A Low Pressure Fuel System Pressure - Too Low
- P008B Low Pressure Fuel System Pressure - Too High
- P008C Fuel Cooler Pump Control Circuit Open
- P008D Fuel Cooler Pump Control Circuit Low
- P008E Fuel Cooler Pump Control Circuit High

- P008F Engine Coolant Temperature/Fuel Temperature Correlation
- P0090 Fuel Pressure Regulator 1 Control Circuit
- P0091 Fuel Pressure Regulator 1 Control Circuit Low
- P0092 Fuel Pressure Regulator 1 Control Circuit High
- P0093 Fuel System Leak Detected - Large Leak
- P0094 Fuel System Leak Detected - Small Leak
- P0095 Intake Air Temperature Sensor 2 Circuit Bank 1
- P0096 Intake Air Temperature Sensor 2 Circuit Range/Performance Bank 1
- P0097 Intake Air Temperature Sensor 2 Circuit Low Bank 1
- P0098 Intake Air Temperature Sensor 2 Circuit High Bank 1
- P0099 Intake Air Temperature Sensor 2 Circuit Intermittent/Erratic Bank 1
- P009A Intake Air Temperature/Ambient Air Temperature Correlation
- P009B Fuel Pressure Relief Control Circuit/Open
- P009C Fuel Pressure Relief Control Circuit Low
- P009D Fuel Pressure Relief Control Circuit High
- P009E Fuel Pressure Relief Control Performance/Stuck Off
- P009F Fuel Pressure Relief Control Stuck On
- P00A0 Charge Air Cooler Temperature Sensor Circuit Bank 2
- P00A1 Charge Air Cooler Temperature Sensor Circuit Range/Performance Bank 2
- P00A2 Charge Air Cooler Temperature Sensor Circuit Low Bank 2
- P00A3 Charge Air Cooler Temperature Sensor Circuit High Bank 2
- P00A4 Charge Air Cooler Temperature Sensor Circuit Intermittent/Erratic Bank 2
- P00A5 Intake Air Temperature Sensor 2 Circuit Bank 2
- P00A6 Intake Air Temperature Sensor 2 Circuit Range/Performance Bank 2
- P00A7 Intake Air Temperature Sensor 2 Circuit Low Bank 2
- P00A8 Intake Air Temperature Sensor 2 Circuit High Bank 2
- P00A9 Intake Air Temperature Sensor 2 Circuit Intermittent/Erratic Bank 2
- P00AA Intake Air Temperature Sensor 1 Circuit Bank 2
- P00AB Intake Air Temperature Sensor 1 Circuit Range/Performance Bank 2
- P00AC Intake Air Temperature Sensor 1 Circuit Low Bank 2
- P00AD Intake Air Temperature Sensor 1 Circuit High Bank 2
- P00AE Intake Air Temperature Sensor 1 Circuit Intermittent/Erratic Bank 2
- P00AF Turbocharger/Supercharger Boost Control "A" Module Performance
- P00B0 Turbocharger/Supercharger Boost Control "B" Module Performance
- P00B1 Radiator Coolant Temperature Sensor Circuit
- P00B2 Radiator Coolant Temperature Sensor Circuit Range/Performance
- P00B3 Radiator Coolant Temperature Sensor Circuit Low
- P00B4 Radiator Coolant Temperature Sensor Circuit High
- P00B5 Radiator Coolant Temperature Sensor Circuit Intermittent/Erratic
- P00B6 Radiator Coolant Temperature/Engine Coolant Temperature Correlation
- P00B7 Engine Coolant Flow Low/Performance
- P00B8 MAP - Mass or Volume Air Flow Correlation Bank 2
- P00B9 Low Pressure Fuel System Pressure - Too Low, Low Ambient Temperature
- P00BA Low Fuel Pressure - Forced Limited Power
- P00BB Fuel Injector Insufficient Flow - Forced Limited Power
- P00BC Mass or Volume Air Flow "A" Circuit Range/Performance - Air Flow Too Low

- [P00BD Mass or Volume Air Flow "A" Circuit Range/Performance - Air Flow Too High](#)
- [P00BE Mass or Volume Air Flow "B" Circuit Range/Performance - Air Flow Too Low](#)
- [P00BF Mass or Volume Air Flow "B" Circuit Range/Performance - Air Flow Too High](#)
- [P00Co - P00FF ISO/SAE Reserved](#)

Next: [P0100-P0199 trouble codes](#)

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