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Audi Diagnostic Trouble Codes DTC Table - General

From model year 1996, vehicles manufactured for the North American market are equipped with a Government required diagnostic system known as On-Board Diagnostics II (OBD II). This system monitors operation and function of all engine management system activity and automatic transmission operation to insure compliance with specified emission levels.

Vehicle emission levels are constantly monitored by the OBD II system and malfunctions are recognized and recorded. A Malfunction Indicator Light (MIL) in the instrument cluster alerts the driver to the fault and the need to have the system checked for fault codes. These codes follow a standard format and are known as Diagnostic Trouble Codes (DTCs).

DTCs are assigned two codes. The first code is a numerical code assigned by the factory. The second code is referred to as a P-code and follows a structure required by law and defined by the Society of Automotive Engineers (SAE). This standard uses a letter to designate the system and four numbers to further identify and detail the malfunction as listed below.

[Scan Tool Supplier List](#)

Search

This is about a 35 page table. You may want to search for the DTC you need using your browser's "find" feature. (Often this is under the 'edit' menu / 'find', in Internet Explorer, also use Ctrl+F).

First digit structure is as follows:

- Pxxxx for powertrain
- Bxxxx for body
- Cxxxx for chassis
- Uxxxx for future systems

Second digit structure is:

- P0xxx Government required codes

- P1xxx Manufacturer codes for additional emission system function; not required but reported to the government

Third digit structure is:

- Px1xx measurement of air and fuel
- Px2xx measurement of air and fuel
- Px3xx ignition system
- Px4xx additional emission control
- Px5xx speed and idle regulation
- Px6xx computer and output signals
- Px7xx transmission
- Px8xx transmission
- Px9xx control modules, input and output signals

The fourth and fifth digits designate the individual components and systems.

Audi Diagnostic Trouble Codes (DTCs) and data can be retrieved with VW/Audi Factory Scan Tools such as the VAG 1551, VAG 1552, or the new diagnostic computer VAS 5051 through a Data Link Connector (DLC). For location of the data link connector, see *Maintenance* section. Several aftermarket scan tools and computer programs are also capable of retrieving this information in this factory mode. The factory mode also allows the scan tool to be used for other system diagnostic functions and information retrieval.

Some DTC information can also be retrieved in a generic mode. The generic mode is not as complete as the factory mode, but allows commercially available scan tools to be used simply to read DTCs. Generic scan tool mode does not have the capability to retrieve the detailed information of a manufacturer-specific scan tool.

Scan Tool Code Table

- **NOTE -**
The following table contains a list of available scan tool codes for all Volkswagen and Audi vehicles available at the time of publication. Not all of the codes apply to the vehicles covered by this manual.

| DTC | P-code | Description |
|-------|--------|--|
| 16394 | P0010 | -A- Camshaft Pos. Actuator Circ. Bank 1 Malfunction |
| 16395 | P0020 | -A- Camshaft Pos. Actuator Circ. Bank 2 Malfunction |
| 16449 | P0065 | Air Assisted Injector Control Range/Performance |
| 16450 | P0066 | Air Assisted Injector Control Low Input/Short to ground |

| | | |
|-------|-------|---|
| 16451 | P0067 | Air Assisted Injector Control Input/Short to B+ |
| 16485 | P0101 | Mass or Volume Air Flow Circ Range/Performance |
| 16486 | P0102 | Mass or Volume Air Flow Circ Low Input |
| 16487 | P0103 | Mass or Volume Air Flow Circ High Input |
| 16489 | P0105 | Manifold Abs.Pressure or Bar.Pressure Voltage supply |
| 16490 | P0106 | Manifold Abs.Pressure or Bar.Pressure Range/Performance |
| 16491 | P0107 | Manifold Abs.Pressure or Bar.Pressure Low Input |
| 16492 | P0108 | Manifold Abs.Pressure or Bar.Pressure High Input |
| 16496 | P0112 | Intake Air Temp.Circ Low Input |
| 16497 | P0113 | Intake Air Temp.Circ High Input |
| 16500 | P0116 | Engine Coolant Temp.Circ Range/Performance |
| 16501 | P0117 | Engine Coolant Temp.Circ Low Input |
| 16502 | P0118 | Engine Coolant Temp.Circ High Input |
| 16504 | P0120 | Throttle/Pedal Pos.Sensor A Circ Malfunction |
| 16505 | P0121 | Throttle/Pedal Pos.Sensor A Circ Range/Performance |
| 16506 | P0122 | Throttle/Pedal Pos.Sensor A Circ Low Input |
| 16507 | P0123 | Throttle/Pedal Pos.Sensor A Circ High Input |
| 16509 | P0125 | Insufficient Coolant Temp.for Closed Loop Fuel Control |
| 16512 | P0128 | Coolant Thermostat/Valve Temperature below control range |
| 16514 | P0130 | O2 Sensor Circ.,Bank1-Sensor1 Malfunction |
| 16515 | P0131 | O2 Sensor Circ.,Bank1-Sensor1 Low Voltage |
| 16516 | P0132 | O2 Sensor Circ.,Bank1-Sensor1 High Voltage |
| 16517 | P0133 | O2 Sensor Circ.,Bank1-Sensor1 Slow Response |
| | | O2 Sensor Circ.,Bank1-Sensor1 No Activity Detected |

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|-------|-------|---|
| 16518 | P0134 | |
| 16519 | P0135 | O2 Sensor Heater Circ.,Bank1-Sensor1 Malfunction |
| 16520 | P0136 | O2 Sensor Circ.,Bank1-Sensor2 Malfunction |
| 16521 | P0137 | O2 Sensor Circ.,Bank1-Sensor2 Low Voltage |
| 16522 | P0138 | O2 Sensor Circ.,Bank1-Sensor2 High Voltage |
| 16523 | P0139 | O2 Sensor Circ.,Bank1-Sensor2 Slow Response |
| 16524 | P0140 | O2 Sensor Circ.,Bank1-Sensor2 No Activity Detected |
| 16525 | P0141 | O2 Sensor Heater Circ.,Bank1-Sensor2 Malfunction |
| 16534 | P0150 | O2 Sensor Circ.,Bank2-Sensor1 Malfunction |
| 16535 | P0151 | O2 Sensor Circ.,Bank2-Sensor1 Low Voltage |
| 16536 | P0152 | O2 Sensor Circ.,Bank2-Sensor1 High Voltage |
| 16537 | P0153 | O2 Sensor Circ.,Bank2-Sensor1 Slow Response |
| 16538 | P0154 | O2 Sensor Circ.,Bank2-Sensor1 No Activity Detected |
| 16539 | P0155 | O2 Sensor Heater Circ.,Bank2-Sensor1 Malfunction |
| 16540 | P0156 | O2 Sensor Circ.,Bank2-Sensor2 Malfunction |
| 16541 | P0157 | O2 Sensor Circ.,Bank2-Sensor2 Low Voltage |
| 16542 | P0158 | O2 Sensor Circ.,Bank2-Sensor2 High Voltage |
| 16543 | P0159 | O2 Sensor Circ.,Bank2-Sensor2 Slow Response |
| 16544 | P0160 | O2 Sensor Circ.,Bank2-Sensor2 No Activity Detected |
| 16545 | P0161 | O2 Sensor Heater Circ.,Bank2-Sensor2 Malfunction |
| 16554 | P0170 | Fuel Trim,Bank1 Malfunction |
| 16555 | P0171 | Fuel Trim,Bank1 System too Lean |
| 16556 | P0172 | Fuel Trim,Bank1 System too Rich |
| | | Fuel Trim,Bank2 Malfunction |

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|-------|-------|---|
| 16557 | P0173 | |
| 16558 | P0174 | Fuel Trim,Bank2 System too Lean |
| 16559 | P0175 | Fuel Trim,Bank2 System too Rich |
| 16566 | P0182 | Fuel temperature sender-G81 Short to ground |
| 16567 | P0183 | Fuel temperature sender-G81 Interruption/Short to B+ |
| 16581 | P0197 | Engine Oil Temperature Circuit Low Input |
| 16582 | P0198 | Engine Oil Temperature Circuit High Input |
| 16585 | P0201 | Cyl.1, Injector Circuit Fault in electrical circuit |
| 16586 | P0202 | Cyl.2, Injector Circuit Fault in electrical circuit |
| 16587 | P0203 | Cyl.3, Injector Circuit Fault in electrical circuit |
| 16588 | P0204 | Cyl.4, Injector Circuit Fault in electrical circuit |
| 16589 | P0205 | Cyl.5 Injector Circuit Fault in electrical circuit |
| 16590 | P0206 | Cyl.6 Injector Circuit Fault in electrical circuit |
| 16591 | P0207 | Cyl.7 Injector Circuit Fault in electrical circuit |
| 16592 | P0208 | Cyl.8 Injector Circuit Fault in electrical circuit |
| 16599 | P0215 | Engine Shut-Off Solenoid Malfunction |
| 16600 | P0216 | Injector/Injection Timing Control Malfunction |
| 16603 | P0219 | Engine Overspeed Condition |
| 16605 | P0221 | Throttle Pos. Sensor -B- Circuit Range/Performance |
| 16606 | P0222 | Throttle Pos. Sensor -B- Circuit Low Input |
| 16607 | P0223 | Throttle Pos. Sensor -B- Circuit High Input |
| 16609 | P0225 | Throttle Pos. Sensor -C- Circuit Voltage supply |
| 16610 | P0226 | Throttle Pos. Sensor -C- Circuit Range/Performance |
| | | Throttle Pos. Sensor -C- Circuit Low Input |

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|-------|-------|---|
| 16611 | P0227 | |
| 16612 | P0228 | Throttle Pos. Sensor -C- Circuit High Input |
| 16614 | P0230 | Fuel Pump Primary Circuit Fault in electrical circuit |
| 16618 | P0234 | Turbocharger Overboost Condition Control limit exceeded |
| 16619 | P0235 | Turbocharger Boost Sensor (A) Circ Control limit not reached |
| 16620 | P0236 | Turbocharger Boost Sensor (A) Circ Range/Performance |
| 16621 | P0237 | Turbocharger Boost Sensor (A) Circ Low Input |
| 16622 | P0238 | Turbocharger Boost Sensor (A) Circ High Input |
| 16627 | P0243 | Turbocharger Wastegate Solenoid (A) Open/Short Circuit to Ground |
| 16629 | P0245 | Turbocharger Wastegate Solenoid (A) Low Input/Short to ground |
| 16630 | P0246 | Turbocharger Wastegate Solenoid (A) High Input/Short to B+ |
| 16636 | P0252 | Injection Pump Metering Control (A) Range/Performance |
| 16645 | P0261 | Cyl.1 Injector Circuit Low Input/Short to ground |
| 16646 | P0262 | Cyl.1 Injector Circuit High Input/Short to B+ |
| 16648 | P0264 | Cyl.2 Injector Circuit Low Input/Short to ground |
| 16649 | P0265 | Cyl.2 Injector Circuit High Input/Short to B+ |
| 16651 | P0267 | Cyl.3 Injector Circuit Low Input/Short to ground |
| 16652 | P0268 | Cyl.3 Injector Circuit High Input/Short to B+ |
| 16654 | P0270 | Cyl.4 Injector Circuit Low Input/Short to ground |
| 16655 | P0271 | Cyl.4 Injector Circuit High Input/Short to B+ |
| 16657 | P0273 | Cyl.5 Injector Circuit Low Input/Short to ground |
| 16658 | P0274 | Cyl.5 Injector Circuit High Input/Short to B+ |
| 16660 | P0276 | Cyl.6 Injector Circuit Low Input/Short to ground |
| | | Cyl.6 Injector Circuit High Input/Short to B+ |

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|-------|-------|--|
| 16661 | P0277 | |
| 16663 | P0279 | Cyl.7 Injector Circuit Low Input/Short to ground |
| 16664 | P0280 | Cyl.7 Injector Circuit High Input/Short to B+ |
| 16666 | P0282 | Cyl.8 Injector Circuit Low Input/Short to ground |
| 16667 | P0283 | Cyl.8 Injector Circuit High Input/Short to B+ |
| 16684 | P0300 | Random/Multiple Cylinder Misfire Detected |
| 16685 | P0301 | Cyl.1 Misfire Detected |
| 16686 | P0302 | Cyl.2 Misfire Detected |
| 16687 | P0303 | Cyl.3 Misfire Detected |
| 16688 | P0304 | Cyl.4 Misfire Detected |
| 16689 | P0305 | Cyl.5 Misfire Detected |
| 16690 | P0306 | Cyl.6 Misfire Detected |
| 16691 | P0307 | Cyl.7 Misfire Detected |
| 16692 | P0308 | Cyl.8 Misfire Detected |
| 16697 | P0313 | Misfire Detected Low Fuel Level |
| 16698 | P0314 | Single Cylinder Misfire |
| 16705 | P0321 | Ign./Distributor Eng.Speed Inp.Circ Range/Performance |
| 16706 | P0322 | Ign./Distributor Eng.Speed Inp.Circ No Signal |
| 16709 | P0325 | Knock Sensor 1 Circuit Electrical Fault in Circuit |
| 16710 | P0326 | Knock Sensor 1 Circuit Range/Performance |
| 16711 | P0327 | Knock Sensor 1 Circ Low Input |
| 16712 | P0328 | Knock Sensor 1 Circ High Input |
| 16716 | P0332 | Knock Sensor 2 Circ Low Input |
| | | Knock Sensor 2 Circ High Input |

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| 16717 | P0333 | |
| 16719 | P0335 | Crankshaft Pos. Sensor (A) Circ Malfunction |
| 16720 | P0336 | Crankshaft Pos. Sensor (A) Circ Range/Performance/Missing tooth |
| 16721 | P0337 | Crankshaft Pos.Sensor (A) Circ Low Input |
| 16724 | P0340 | Camshaft Pos. Sensor (A) Circ Incorrect allocation |
| 16725 | P0341 | Camshaft Pos.Sensor Circ Range/Performance |
| 16726 | P0342 | Camshaft Pos.Sensor Circ Low Input |
| 16727 | P0343 | Camshaft Pos.Sensor Circ High Input |
| 16735 | P0351 | Ignition Coil (A) Cyl.1 Prim./Sec. Circ Malfunction |
| 16736 | P0352 | Ignition Coil (B) Cyl.2 Prim./Sec. Circ Malfunction |
| 16737 | P0353 | Ignition Coil (C) Cyl.3 Prim./Sec. Circ Malfunction |
| 16738 | P0354 | Ignition Coil (D) Cyl.4 Prim./Sec. Circ Malfunction |
| 16739 | P0355 | Ignition Coil (E) Cyl.5 Prim./Sec. Circ Malfunction |
| 16740 | P0356 | Ignition Coil (F) Cyl.6 Prim./Sec. Circ Malfunction |
| 16741 | P0357 | Ignition Coil (G) Cyl.7 Prim./Sec. Circ Malfunction |
| 16742 | P0358 | Ignition Coil (H) Cyl.8 Prim./Sec. Circ Malfunction |
| 16764 | P0380 | Glow Plug/Heater Circuit (A) Electrical Fault in Circuit |
| 16784 | P0400 | Exhaust Gas Recirc.Flow Malfunction |
| 16785 | P0401 | Exhaust Gas Recirc.Flow Insufficient Detected |
| 16786 | P0402 | Exhaust Gas Recirc.Flow Excessive Detected |
| 16787 | P0403 | Exhaust Gas Recirc. Contr. Circ Malfunction |
| 16788 | P0404 | Exhaust Gas Recirc. Contr. Circ Range/Performance |
| 16789 | P0405 | Exhaust Gas Recirc. Sensor (A) Circ Low Input |
| | | Exhaust Gas Recirc. Sensor (A) Circ High Input |

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| 16790 | P0406 | |
| 16791 | P0407 | Exhaust Gas Recirc. Sensor (B) Circ Low Input |
| 16792 | P0408 | Exhaust Gas Recirc. Sensor (B) Circ High Input |
| 16794 | P0410 | Sec.Air Inj.Sys Malfunction |
| 16795 | P0411 | Sec.Air Inj.Sys. Incorrect Flow Detected |
| 16796 | P0412 | Sec.Air Inj.Sys.Switching Valve A Circ Malfunction |
| 16802 | P0418 | Sec. Air Inj. Sys. Relay (A) Contr. Circ Malfunction |
| 16804 | P0420 | Catalyst System,Bank1 Efficiency Below Threshold |
| 16806 | P0422 | Main Catalyst,Bank1 Below Threshold |
| 16811 | P0427 | Catalyst Temperature Sensor, Bank 1 Low Input/Short to ground |
| 16812 | P0428 | Catalyst Temperature Sensor, Bank 1 High Input/Open/Short Circuit to B+ |
| 16816 | P0432 | Main Catalyst,Bank2 Efficiency Below Threshold |
| 16820 | P0436 | Catalyst Temperature Sensor, Bank 2 Range/Performance |
| 16821 | P0437 | Catalyst Temperature Sensor, Bank 2 Low Input/Short to ground |
| 16822 | P0438 | Catalyst Temperature Sensor, Bank 2 High Input/Open/Short Circuit to B+ |
| 16824 | P0440 | EVAP Emission Contr.Sys. Malfunction |
| 16825 | P0441 | EVAP Emission Contr.Sys.Incorrect Purge Flow |
| 16826 | P0442 | EVAP Emission Contr.Sys.(Small Leak) Leak Detected |
| 16827 | P0443 | EVAP Emiss. Contr. Sys. Purge Valve Circ Electrical Fault in Circuit |
| 16836 | P0452 | EVAP Emission Contr.Sys.Press.Sensor Low Input |
| 16837 | P0453 | EVAP Emission Contr.Sys.Press.Sensor High Input |
| 16839 | P0455 | EVAP Emission Contr.Sys.(Gross Leak) Leak Detected |
| 16845 | P0461 | Fuel Level Sensor Circ Range/Performance |
| | | Fuel Level Sensor Circuit Low Input |

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| 16846 | P0462 | |
| 16847 | P0463 | Fuel Level Sensor Circuit High Input |
| 16885 | P0501 | Vehicle Speed Sensor Range/Performance |
| 16887 | P0503 | Vehicle Speed Sensor Intermittent/Erratic/High Input |
| 16889 | P0505 | Idle Control System Malfunction |
| 16890 | P0506 | Idle Control System RPM Lower than Expected |
| 16891 | P0507 | Idle Control System Higher than Expected |
| 16894 | P0510 | Closed Throttle Pos.Switch Malfunction |
| 16915 | P0531 | A/C Refrigerant Pressure Sensor Circuit Range/Performance |
| 16916 | P0532 | A/C Refrigerant Pressure Sensor Circuit Low Input |
| 16917 | P0533 | A/C Refrigerant Pressure Sensor Circuit High Input |
| 16935 | P0551 | Power Steering Pressure Sensor Circuit Range/Performance |
| 16944 | P0560 | System Voltage Malfunction |
| 16946 | P0562 | System Voltage Low Voltage |
| 16947 | P0563 | System Voltage High Voltage |
| 16952 | P0568 | Cruise Control Set Signal Incorrect Signal |
| 16955 | P0571 | Cruise/Brake Switch (A) Circ Malfunction |
| 16984 | P0600 | Serial Comm. Link (Data Bus) Message Missing |
| 16985 | P0601 | Internal Contr.Module Memory Check Sum Error |
| 16986 | P0602 | Control Module Programming Error/Malfunction |
| 16987 | P0603 | Internal Contr.Module (KAM) Error |
| 16988 | P0604 | Internal Contr.Module Random Access Memory (RAM) Error |
| 16989 | P0605 | Internal Contr.Module ROM Test Error |
| | | ECM/PCM Processor |

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|-------|-------|--|
| 16990 | P0606 | |
| 17026 | P0642 | Knock Control Control Module Malfunction |
| 17029 | P0645 | A/C Clutch Relay Control Circuit |
| 17034 | P0650 | MIL Control Circuit Electrical Fault in Circuit |
| 17038 | P0654 | Engine RPM Output Circuit Electrical Fault in Circuit |
| 17040 | P0656 | Fuel Level Output Circuit Electrical Fault in Circuit |
| 17084 | P0700 | Transm.Contr.System Malfunction |
| 17086 | P0702 | Transm.Contr.System Electrical |
| 17087 | P0703 | Torque Converter/Brake Switch B Circ Malfunction |
| 17089 | P0705 | Transm.Range Sensor Circ.(PRNDL Inp.) Malfunction |
| 17090 | P0706 | Transm.Range Sensor Circ Range/Performance |
| 17091 | P0707 | Transm.Range Sensor Circ Low Input |
| 17092 | P0708 | Transm.Range Sensor Circ High Input |
| 17094 | P0710 | Transm.Fluid Temp.Sensor Circ. Malfunction |
| 17095 | P0711 | Transm.Fluid Temp.Sensor Circ. Range/Performance |
| 17096 | P0712 | Transm.Fluid Temp.Sensor Circ. Low Input |
| 17097 | P0713 | Transm.Fluid Temp.Sensor Circ. High Input |
| 17099 | P0715 | Input Turbine/Speed Sensor Circ. Malfunction |
| 17100 | P0716 | Input Turbine/Speed Sensor Circ. Range/Performance |
| 17101 | P0717 | Input Turbine/Speed Sensor Circ. No Signal |
| 17105 | P0721 | Output Speed Sensor Circ Range/Performance |
| 17106 | P0722 | Output Speed Sensor Circ No Signal |
| 17109 | P0725 | Engine Speed Inp.Circ. Malfunction |
| | | Engine Speed Inp.Circ. Range/Performance |

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|-------|-------|--|
| 17110 | P0726 | |
| 17111 | P0727 | Engine Speed Inp.Circ. No Signal |
| 17114 | P0730 | Gear Incorrect Ratio |
| 17115 | P0731 | Gear 1 Incorrect Ratio |
| 17116 | P0732 | Gear 2 Incorrect Ratio |
| 17117 | P0733 | Gear 3 Incorrect Ratio |
| 17118 | P0734 | Gear 4 Incorrect Ratio |
| 17119 | P0735 | Gear 5 Incorrect Ratio |
| 17124 | P0740 | Torque Converter Clutch Circ Malfunction |
| 17125 | P0741 | Torque Converter Clutch Circ Performance or Stuck Off |
| 17132 | P0748 | Pressure Contr.Solenoid Electrical |
| 17134 | P0750 | Shift Solenoid A malfunction |
| 17135 | P0751 | Shift Solenoid A Performance or Stuck Off |
| 17136 | P0752 | Shift Solenoid A Stuck On |
| 17137 | P0753 | Shift Solenoid A Electrical |
| 17140 | P0756 | Shift Solenoid B Performance or Stuck Off |
| 17141 | P0757 | Shift Solenoid B Stuck On |
| 17142 | P0758 | Shift Solenoid B Electrical |
| 17145 | P0761 | Shift Solenoid C Performance or Stuck Off |
| 17146 | P0762 | Shift Solenoid C Stuck On |
| 17147 | P0763 | Shift Solenoid C Electrical |
| 17152 | P0768 | Shift Solenoid D Electrical |
| 17157 | P0773 | Shift Solenoid E Electrical |
| | | Normal/Performance Switch Circ Malfunction |

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|-------|-------|---|
| 17174 | P0790 | |
| 17509 | P1101 | O2 Sensor Circ.,Bank1-Sensor1Voltage too Low/Air Leak |
| 17510 | P1102 | O2 Sensor Heating Circ.,Bank1-Sensor1 Short to B+ |
| 17511 | P1103 | O2 Sensor Heating Circ.,Bank1-Sensor1 Output too Low |
| 17512 | P1104 | Bank1-Sensor2 Voltage too Low/Air Leak |
| 17513 | P1105 | O2 Sensor Heating Circ.,Bank1-Sensor2 Short to B+ |
| 17514 | P1106 | O2 Sensor Circ.,Bank2-Sensor1 Voltage too Low/Air Leak |
| 17515 | P1107 | O2 Sensor Heating Circ.,Bank2-Sensor1 Short to B+ |
| 17516 | P1108 | O2 Sensor Heating Circ.,Bank2-Sensor1 Output too Low |
| 17517 | P1109 | O2 Sensor Circ.,Bank2-Sensor2 Voltage too Low/Air Leak |
| 17518 | P1110 | O2 Sensor Heating Circ.,Bank2-Sensor2 Short to B+ |
| 17519 | P1111 | O2 Control (Bank 1) System too lean |
| 17520 | P1112 | O2 Control (Bank 1) System too rich |
| 17521 | P1113 | Bank1-Sensor1 Internal Resistance too High |
| 17522 | P1114 | Bank1-Sensor2 Internal Resistant too High |
| 17523 | P1115 | O2 Sensor Heater Circ.,Bank1-Sensor1 Short to Ground |
| 17524 | P1116 | O2 Sensor Heater Circ.,Bank1-Sensor1 Open |
| 17525 | P1117 | O2 Sensor Heater Circ.,Bank1-Sensor2 Short to Ground |
| 17526 | P1118 | O2 Sensor Heater Circ.,Bank1-Sensor2 Open |
| 17527 | P1119 | O2 Sensor Heater Circ.,Bank2-Sensor1 Short to Ground |
| 17528 | P1120 | O2 Sensor Heater Circ.,Bank2-Sensor1 Open |
| 17529 | P1121 | O2 Sensor Heater Circ.,Bank2-Sensor2 Short to Ground |
| 17530 | P1122 | O2 Sensor Heater Circ.,Bank2-Sensor2 Open |
| | | Long Term Fuel Trim Add.Air.,Bank1 System too Rich |

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|-------|-------|---|
| 17531 | P1123 | |
| 17532 | P1124 | Long Term Fuel Trim Add.Air.,Bank1 System too Lean |
| 17533 | P1125 | Long Term Fuel Trim Add.Air.,Bank2 System too Rich |
| 17534 | P1126 | Long Term Fuel Trim Add.Air.,Bank2 System too Lean |
| 17535 | P1127 | Long Term Fuel Trim mult.,Bank1 System too Rich |
| 17536 | P1128 | Long Term Fuel Trim mult.,Bank1 System too Lean |
| 17537 | P1129 | Long Term Fuel Trim mult.,Bank2 System too Rich |
| 17538 | P1130 | Long Term Fuel Trim mult.,Bank2 System too Lean |
| 17539 | P1131 | Bank2-Sensor1 Internal Resistance too High |
| 17540 | P1132 | O2 Sensor Heating Circ.,Bank1+2-Sensor1 Short to B+ |
| 17541 | P1133 | O2 Sensor Heating Circ.,Bank1+2-Sensor1 Electrical Malfunction |
| 17542 | P1134 | O2 Sensor Heating Circ.,Bank1+2-Sensor2 Short to B+ |
| 17543 | P1135 | O2 Sensor Heating Circ.,Bank1+2-Sensor2 Electrical Malfunction |
| 17544 | P1136 | Long Term Fuel Trim Add.Fuel,Bank1 System too Lean |
| 17545 | P1137 | Long Term Fuel Trim Add.Fuel,Bank1 System too Rich |
| 17546 | P1138 | Long Term Fuel Trim Add.Fuel,Bank2 System too Lean |
| 17547 | P1139 | Long Term Fuel Trim Add.Fuel,Bank2 System too Rich |
| 17548 | P1140 | Bank2-Sensor2 Internal Resistance too High |
| 17549 | P1141 | Load Calculation Cross Check Range/Performance |
| 17550 | P1142 | Load Calculation Cross Check Lower Limit Exceeded |
| 17551 | P1143 | Load Calculation Cross Check Upper Limit Exceeded |
| 17552 | P1144 | Mass or Volume Air Flow Circ Open/Short to Ground |
| 17553 | P1145 | Mass or Volume Air Flow Circ Short to B+ |
| | | Mass or Volume Air Flow Circ Supply Malfunction |

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|-------|-------|--|
| 17554 | P1146 | |
| 17555 | P1147 | O2 Control (Bank 2) System too lean |
| 17556 | P1148 | O2 Control (Bank 2) System too rich |
| 17557 | P1149 | O2 Control (Bank 1) Out of range |
| 17558 | P1150 | O2 Control (Bank 2) Out of range |
| 17559 | P1151 | Bank1, Long Term Fuel Trim, Range 1 Leanness Lower Limit Exceeded |
| 17560 | P1152 | Bank1, Long Term Fuel Trim, Range 2 Leanness Lower Limit Exceeded |
| 17562 | P1154 | Manifold Switch Over Malfunction |
| 17563 | P1155 | Manifold Abs.Pressure Sensor Circ. Short to B+ |
| 17564 | P1156 | Manifold Abs.Pressure Sensor Circ. Open/Short to Ground |
| 17565 | P1157 | Manifold Abs.Pressure Sensor Circ. Power Supply Malfunction |
| 17566 | P1158 | Manifold Abs.Pressure Sensor Circ. Range/Performance |
| 17568 | P1160 | Manifold Temp.Sensor Circ. Short to Ground |
| 17569 | P1161 | Manifold Temp.Sensor Circ. Open/Short to B+ |
| 17570 | P1162 | Fuel Temp.Sensor Circ. Short to Ground |
| 17571 | P1163 | Fuel Temp.Sensor Circ. Open/Short to B+ |
| 17572 | P1164 | Fuel Temperature Sensor Range/Performance/Incorrect Signal |
| 17573 | P1165 | Bank1, Long Term Fuel Trim, Range 1 Rich Limit Exceeded |
| 17574 | P1166 | Bank1, Long Term Fuel Trim, Range 2 Rich Limit Exceeded |
| 17579 | P1171 | Throttle Actuation Potentiometer Sign.2 Range/Performance |
| 17580 | P1172 | Throttle Actuation Potentiometer Sign.2 Signal too Low |
| 17581 | P1173 | Throttle Actuation Potentiometer Sign.2 Signal too High |
| 17582 | P1174 | Fuel Trim, Bank 1 Different injection times |
| | | O2 Correction Behind Catalyst,B1 Limit Attained |

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|-------|-------|--|
| 17584 | P1176 | |
| 17585 | P1177 | O2 Correction Behind Catalyst,B2 Limit Attained |
| 17586 | P1178 | Linear O2 Sensor / Pump Current Open Circuit |
| 17587 | P1179 | Linear O2 Sensor / Pump Current Short to ground |
| 17588 | P1180 | Linear O2 Sensor / Pump Current Short to B+ |
| 17589 | P1181 | Linear O2 Sensor / Reference Voltage Open Circuit |
| 17590 | P1182 | Linear O2 Sensor / Reference Voltage Short to ground |
| 17591 | P1183 | Linear O2 Sensor / Reference Voltage Short to B+ |
| 17592 | P1184 | Linear O2 Sensor / Common Ground Wire Open Circuit |
| 17593 | P1185 | Linear O2 Sensor / Common Ground Wire Short to ground |
| 17594 | P1186 | Linear O2 Sensor / Common Ground Wire Short to B+ |
| 17595 | P1187 | Linear O2 Sensor / Compens. Resistor Open Circuit |
| 17596 | P1188 | Linear O2 Sensor / Compens. Resistor Short to ground |
| 17597 | P1189 | Linear O2 Sensor / Compens. Resistor Short to B+ |
| 17598 | P1190 | Linear O2 Sensor / Reference Voltage Incorrect Signal |
| 17604 | P1196 | O2 Sensor Heater Circ.,Bank1-Sensor1 Electrical Malfunction |
| 17605 | P1197 | O2 Sensor Heater Circ.,Bank2-Sensor1 Electrical Malfunction |
| 17606 | P1198 | O2 Sensor Heater Circ.,Bank1-Sensor2 Electrical Malfunction |
| 17607 | P1199 | O2 Sensor Heater Circ.,Bank2-Sensor2 Electrical Malfunction |
| 17609 | P1201 | Cyl.1-Fuel Inj.Circ. Electrical Malfunction |
| 17610 | P1202 | Cyl.2-Fuel Inj.Circ. Electrical Malfunction |
| 17611 | P1203 | Cyl.3-Fuel Inj.Circ. Electrical Malfunction |
| 17612 | P1204 | Cyl.4-Fuel Inj.Circ. Electrical Malfunction |
| | | Cyl.5-Fuel Inj.Circ. Electrical Malfunction |

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| 17613 | P1205 | |
| 17614 | P1206 | Cyl.6-Fuel Inj.Circ. Electrical Malfunction |
| 17615 | P1207 | Cyl.7-Fuel Inj.Circ. Electrical Malfunction |
| 17616 | P1208 | Cyl.8-Fuel Inj.Circ. Electrical Malfunction |
| 17617 | P1209 | Intake valves for cylinder shut-off Short circuit to ground |
| 17618 | P1210 | Intake valves for cylinder shut-off Short to B+ |
| 17619 | P1211 | Intake valves for cylinder shut-off Open circuit |
| 17621 | P1213 | Cyl.1-Fuel Inj.Circ. Short to B+ |
| 17622 | P1214 | Cyl.2-Fuel Inj.Circ. Short to B+ |
| 17623 | P1215 | Cyl.3-Fuel Inj.Circ. Short to B+ |
| 17624 | P1216 | Cyl.4-Fuel Inj.Circ. Short to B+ |
| 17625 | P1217 | Cyl.5-Fuel Inj.Circ. Short to B+ |
| 17626 | P1218 | Cyl.6-Fuel Inj.Circ. Short to B+ |
| 17627 | P1219 | Cyl.7-Fuel Inj.Circ. Short to B+ |
| 17628 | P1220 | Cyl.8-Fuel Inj.Circ. Short to B+ |
| 17629 | P1221 | Cylinder shut-off exhaust valves Short circuit to ground |
| 17630 | P1222 | Cylinder shut-off exhaust valves Short to B+ |
| 17631 | P1223 | Cylinder shut-off exhaust valves Open circuit |
| 17633 | P1225 | Cyl.1-Fuel Inj.Circ. Short to Ground |
| 17634 | P1226 | Cyl.2-Fuel Inj.Circ. Short to Ground |
| 17635 | P1227 | Cyl.3-Fuel Inj.Circ. Short to Ground |
| 17636 | P1228 | Cyl.4-Fuel Inj.Circ. Short to Ground |
| 17637 | P1229 | Cyl.5-Fuel Inj.Circ. Short to Ground |
| | | Cyl.6-Fuel Inj.Circ. Short to Ground |

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| 17638 | P1230 | |
| 17639 | P1231 | Cyl.7-Fuel Inj.Circ. Short to Ground |
| 17640 | P1232 | Cyl.8-Fuel Inj.Circ. Short to Ground |
| 17645 | P1237 | Cyl.1-Fuel Inj.Circ. Open Circ. |
| 17646 | P1238 | Cyl.2-Fuel Inj.Circ. Open Circ. |
| 17647 | P1239 | Cyl.3-Fuel Inj.Circ. Open Circ. |
| 17648 | P1240 | Cyl.4-Fuel Inj.Circ. Open Circ. |
| 17649 | P1241 | Cyl.5-Fuel Inj.Circ. Open Circ. |
| 17650 | P1242 | Cyl.6-Fuel Inj.Circ. Open Circ. |
| 17651 | P1243 | Cyl.7-Fuel Inj.Circ. Open Circ. |
| 17652 | P1244 | Cyl.8-Fuel Inj.Circ. Open Circ. |
| 17653 | P1245 | Needle Lift Sensor Circ. Short to Ground |
| 17654 | P1246 | Needle Lift Sensor Circ. Range/Performance |
| 17655 | P1247 | Needle Lift Sensor Circ. Open/Short to B+ |
| 17656 | P1248 | Injection Start Control Deviation |
| 17657 | P1249 | Fuel consumption signal Electrical Fault in Circuit |
| 17658 | P1250 | Fuel Level Too Low |
| 17659 | P1251 | Start of Injection Solenoid Circ Short to B+ |
| 17660 | P1252 | Start of Injection Solenoid Circ Open/Short to Ground |
| 17661 | P1253 | Fuel consumption signal Short to ground |
| 17662 | P1254 | Fuel consumption signal Short to B+ |
| 17663 | P1255 | Engine Coolant Temp.Circ Short to Ground |
| 17664 | P1256 | Engine Coolant Temp.Circ Open/Short to B+ |
| | | Engine Coolant System Valve Open |

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| 17665 | P1257 | |
| 17666 | P1258 | Engine Coolant System Valve Short to B+ |
| 17667 | P1259 | Engine Coolant System Valve Short to Ground |
| 17688 | P1280 | Fuel Inj.Air Contr.Valve Circ. Flow too Low |
| 17691 | P1283 | Fuel Inj.Air Contr.Valve Circ. Electrical Malfunction |
| 17692 | P1284 | Fuel Inj.Air Contr.Valve Circ. Open |
| 17693 | P1285 | Fuel Inj.Air Contr.Valve Circ. Short to Ground |
| 17694 | P1286 | Fuel Inj.Air Contr.Valve Circ. Short to B+ |
| 17695 | P1287 | Turbocharger bypass valve open |
| 17696 | P1288 | Turbocharger bypass valve short to B+ |
| 17697 | P1289 | Turbocharger bypass valve short to ground |
| 17704 | P1296 | Cooling system malfunction |
| 17705 | P1297 | Connection turbocharger - throttle valve pressure hose |
| 17708 | P1300 | Misfire detected Reason: Fuel level too low |
| 17721 | P1319 | Knock Sensor 1 Circ. Short to Ground |
| 17728 | P1320 | Knock Sensor 2 Circ. Short to Ground |
| 17729 | P1321 | Knock Sensor 3 Circ. Low Input |
| 17730 | P1322 | Knock Sensor 3 Circ. High Input |
| 17731 | P1323 | Knock Sensor 4 Circ. Low Input |
| 17732 | P1324 | Knock Sensor 4 Circ. High Input |
| 17733 | P1325 | Cyl.1-Knock Contr. Limit Attained |
| 17734 | P1326 | Cyl.2-Knock Contr. Limit Attained |
| 17735 | P1327 | Cyl.3-Knock Contr. Limit Attained |
| | | Cyl.4-Knock Contr. Limit Attained |

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| 17736 | P1328 | |
| 17737 | P1329 | Cyl.5-Knock Contr. Limit Attained |
| 17738 | P1330 | Cyl.6-Knock Contr. Limit Attained |
| 17739 | P1331 | Cyl.7-Knock Contr. Limit Attained |
| 17740 | P1332 | Cyl.8-Knock Contr. Limit Attained |
| 17743 | P1335 | Engine Torque Monitoring 2 Control Limint Exceeded |
| 17744 | P1336 | Engine Torque Monitoring Adaptation at limit |
| 17745 | P1337 | Camshaft Pos.Sensor,Bank1 Short to Ground |
| 17746 | P1338 | Camshaft Pos.Sensor,Bank1 Open Circ./Short to B+ |
| 17747 | P1339 | Crankshaft Pos./Engine Speed Sensor Cross Connected |
| 17748 | P1340 | Crankshaft-/Camshaft Pos.Sens.Signals Out of Sequence |
| 17749 | P1341 | Ignition Coil Power Output Stage 1 Short to Ground |
| 17750 | P1342 | Ignition Coil Power Output Stage 1 Short to B+ |
| 17751 | P1343 | Ignition Coil Power Output Stage 2 Short to Ground |
| 17752 | P1344 | Ignition Coil Power Output Stage 2 Short to B+ |
| 17753 | P1345 | Ignition Coil Power Output Stage 3 Short to Ground |
| 17754 | P1346 | Ignition Coil Power Output Stage 3 Short to B+ |
| 17755 | P1347 | Bank2,Crankshaft-/Camshaft os.Sens.Sign. Out of Sequence |
| 17756 | P1348 | Ignition Coil Power Output Stage 1 Open Circuit |
| 17757 | P1349 | Ignition Coil Power Output Stage 2 Open Circuit |
| 17758 | P1350 | Ignition Coil Power Output Stage 3 Open Circuit |
| 17762 | P1354 | Modulation Piston Displ.Sensor Circ. Malfunction |
| 17763 | P1355 | Cyl. 1, ignition circuit Open Circuit |
| | | Cyl. 1, ignition circuit Short to B+ |

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| 17764 | P1356 | |
| 17765 | P1357 | Cyl. 1, ignition circuit Short to ground |
| 17766 | P1358 | Cyl. 2, ignition circuit Open Circuit |
| 17767 | P1359 | Cyl. 2, ignition circuit Short Circuit to B+ |
| 17768 | P1360 | Cyl. 2, ignition circuit Short Circuit to Ground |
| 17769 | P1361 | Cyl. 3, ignition circuit Open Circuit |
| 17770 | P1362 | Cyl. 3, ignition circuit Short Circuit to B+ |
| 17771 | P1363 | Cyl. 3, ignition circuit Short Circuit to ground |
| 17772 | P1364 | Cyl. 4 ignition circuit Open Circuit |
| 17773 | P1365 | Cyl. 4 ignition circuit Short circuit to B+ |
| 17774 | P1366 | Cyl. 4 ignition circuit Short circuit to ground |
| 17775 | P1367 | Cyl. 5, ignition circuit Open Circuit |
| 17776 | P1368 | Cyl. 5, ignition circuit Short Circuit to B+ |
| 17777 | P1369 | Cyl. 5, ignition circuit short to ground |
| 17778 | P1370 | Cyl. 6, ignition circuit Open Circuit |
| 17779 | P1371 | Cyl. 6, ignition circuit Short Circuit to B+ |
| 17780 | P1372 | Cyl. 6, ignition circuit short to ground |
| 17781 | P1373 | Cyl. 7, ignition circuit Open Circuit |
| 17782 | P1374 | Cyl. 7, ignition circuit Short Circuit to B+ |
| 17783 | P1375 | Cyl. 7, ignition circuit short to ground |
| 17784 | P1376 | Cyl. 8, ignition circuit Open Circuit |
| 17785 | P1377 | Cyl. 8, ignition circuit Short Circuit to B+ |
| 17786 | P1378 | Cyl. 8, ignition circuit short to ground |
| | | Internal Control Module Knock Control Circ.Error |

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| 17794 | P1386 | |
| 17795 | P1387 | Internal Contr. Module altitude sensor error |
| 17796 | P1388 | Internal Contr. Module drive by wire error |
| 17799 | P1391 | Camshaft Pos.Sensor,Bank2 Short to Ground |
| 17800 | P1392 | Camshaft Pos.Sensor,Bank2 Open Circ./Short to B+ |
| 17801 | P1393 | Ignition Coil Power Output Stage 1 Electrical Malfunction |
| 17802 | P1394 | Ignition Coil Power Output Stage 2 Electrical Malfunction |
| 17803 | P1395 | Ignition Coil Power Output Stage 3 Electrical Malfunction |
| 17804 | P1396 | Engine Speed Sensor Missing Tooth |
| 17805 | P1397 | Engine speed wheel Adaptation limit reached |
| 17806 | P1398 | Engine RPM signal, TD Short to ground |
| 17807 | P1399 | Engine RPM signal, TD Short Circuit to B+ |
| 17808 | P1400 | EGR Valve Circ Electrical Malfunction |
| 17809 | P1401 | EGR Valve Circ Short to Ground |
| 17810 | P1402 | EGR Valve Circ Short to B+ |
| 17811 | P1403 | EGR Flow Deviation |
| 17812 | P1404 | EGR Flow Basic Setting not carried out |
| 17814 | P1406 | EGR Temp.Sensor Range/Performance |
| 17815 | P1407 | EGR Temp.Sensor Signal too Low |
| 17816 | P1408 | EGR Temp.Sensor Signal too High |
| 17817 | P1409 | Tank Ventilation Valve Circ. Electrical Malfunction |
| 17818 | P1410 | Tank Ventilation Valve Circ. Short to B+ |
| 17819 | P1411 | Sec.Air Inj.Sys.,Bank2 Flow too Flow |
| | | EGR Different.Pressure Sensor Signal too Low |

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| 17820 | P1412 | |
| 17821 | P1413 | EGR Different.Pressure Sensor Signal too High |
| 17822 | P1414 | Sec.Air Inj.Sys.,Bank2 Leak Detected |
| 17825 | P1417 | Fuel Level Sensor Circ Signal too Low |
| 17826 | P1418 | Fuel Level Sensor Circ Signal too High |
| 17828 | P1420 | Sec.Air Inj.Valve Circ Electrical Malfunction |
| 17829 | P1421 | Sec.Air Inj.Valve Circ Short to Ground |
| 17830 | P1422 | Sec.Air Inj.Sys.Contr.Valve Circ Short to B+ |
| 17831 | P1423 | Sec.Air Inj.Sys.,Bank1 Flow too Low |
| 17832 | P1424 | Sec.Air Inj.Sys.,Bank1 Leak Detected |
| 17833 | P1425 | Tank Vent.Valve Short to Ground |
| 17834 | P1426 | Tank Vent.Valve Open |
| 17840 | P1432 | Sec.Air Inj.Valve Open |
| 17841 | P1433 | Sec.Air Inj.Sys.Pump Relay Circ. open |
| 17842 | P1434 | Sec.Air Inj.Sys.Pump Relay Circ. Short to B+ |
| 17843 | P1435 | Sec.Air Inj.Sys.Pump Relay Circ. Short to ground |
| 17844 | P1436 | Sec.Air Inj.Sys.Pump Relay Circ. Electrical Malfunction |
| 17847 | P1439 | EGR Potentiometer Error in Basic Setting |
| 17848 | P1440 | EGR Valve Power Stage Open |
| 17849 | P1441 | EGR Valve Circ Open/Short to Ground |
| 17850 | P1442 | EGR Valve Position Sensor Signal too high |
| 17851 | P1443 | EGR Valve Position Sensor Signal too low |
| 17852 | P1444 | EGR Valve Position Sensor range/performance |
| | | Catalyst Temp.Sensor 2 Circ. Range/Performance |

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| 17853 | P1445 | |
| 17854 | P1446 | Catalyst Temp.Circ Short to Ground |
| 17855 | P1447 | Catalyst Temp.Circ Open/Short to B+ |
| 17856 | P1448 | Catalyst Temp.Sensor 2 Circ. Short to Ground |
| 17857 | P1449 | Catalyst Temp.Sensor 2 Circ. Open/Short to B+ |
| 17858 | P1450 | Sec.Air Inj.Sys.Circ Short to B+ |
| 17859 | P1451 | Sec.Air Inj.Sys.Circ Short to Ground |
| 17860 | P1452 | Sec.Air Inj.Sys. Open Circ. |
| 17861 | P1453 | Exhaust gas temperature sensor 1 open/short to B+ |
| 17862 | P1454 | Exhaust gas temperature sensor short 1 to ground |
| 17863 | P1455 | Exhaust gas temperature sensor 1 range/performance |
| 17864 | P1456 | Exhaust gas temperature control bank 1 limit attained |
| 17865 | P1457 | Exhaust gas temperature sensor 2 open/short to B+ |
| 17866 | P1458 | Exhaust gas temperature sensor 2 short to ground |
| 17867 | P1459 | Exhaust gas temperature sensor 2 range/performance |
| 17868 | P1460 | Exhaust gas temperature control bank 2 limit attained |
| 17869 | P1461 | Exhaust gas temperature control bank 1 Range/Performance |
| 17870 | P1462 | Exhaust gas temperature control bank 2 Range/Performance |
| 17873 | P1465 | Additive Pump Short Circuit to B+ |
| 17874 | P1466 | Additive Pump Open/Short to Ground |
| 17875 | P1467 | EVAP Canister Purge Solenoid Valve Short Circuit to B+ |
| 17876 | P1468 | EVAP Canister Purge Solenoid Valve Short Circuit to Ground |
| 17877 | P1469 | EVAP Canister Purge Solenoid Valve Open Circuit |
| | | EVAP Emission Contr.LDP Circ Electrical Malfunction |

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| 17878 | P1470 | |
| 17879 | P1471 | EVAP Emission Contr.LDP Circ Short to B+ |
| 17880 | P1472 | EVAP Emission Contr.LDP Circ Short to Ground |
| 17881 | P1473 | EVAP Emission Contr.LDP Circ Open Circ. |
| 17882 | P1474 | EVAP Canister Purge Solenoid Valve electrical malfunction |
| 17883 | P1475 | EVAP Emission Contr.LDP Circ Malfunction/Signal Circ.Open |
| 17884 | P1476 | EVAP Emission Contr.LDP Circ Malfunction/Insufficient Vacuum |
| 17885 | P1477 | EVAP Emission Contr.LDP Circ Malfunction |
| 17886 | P1478 | EVAP Emission Contr.LDP Circ Clamped Tube Detected |
| 17908 | P1500 | Fuel Pump Relay Circ. Electrical Malfunction |
| 17909 | P1501 | Fuel Pump Relay Circ. Short to Ground |
| 17910 | P1502 | Fuel Pump Relay Circ. Short to B+ |
| 17911 | P1503 | Load signal from Alternator Term. DF Range/performance/Incorrect Signal |
| 17912 | P1504 | Intake Air Sys.Bypass Leak Detected |
| 17913 | P1505 | Closed Throttle Pos. Does Not Close/Open Circ |
| 17914 | P1506 | Closed Throttle Pos.Switch Does Not Open/Short to Ground |
| 17915 | P1507 | Idle Sys.Learned Value Lower Limit Attained |
| 17916 | P1508 | Idle Sys.Learned Value Upper Limit Attained |
| 17917 | P1509 | Idle Air Control Circ. Electrical Malfunction |
| 17918 | P1510 | Idle Air Control Circ. Short to B+ |
| 17919 | P1511 | Intake Manifold Changeover Valve circuit electrical malfunction |
| 17920 | P1512 | Intake Manifold Changeover Valve circuit Short to B+ |
| 17921 | P1513 | Intake Manifold Changeover Valve2 circuit Short to B+ |
| | | Intake Manifold Changeover Valve2 circuit Short to ground |

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| 17922 | P1514 | |
| 17923 | P1515 | Intake Manifold Changeover Valve circuit Short to Ground |
| 17924 | P1516 | Intake Manifold Changeover Valve circuit Open |
| 17925 | P1517 | Main Relay Circ. Electrical Malfunction |
| 17926 | P1518 | Main Relay Circ. Short to B+ |
| 17927 | P1519 | Intake Camshaft Contr.,Bank1 Malfunction |
| 17928 | P1520 | Intake Manifold Changeover Valve2 circuit Open |
| 17929 | P1521 | Intake Manifold Changeover Valve2 circuit electrical malfunction |
| 17930 | P1522 | Intake Camshaft Contr.,Bank2 Malfunction |
| 17931 | P1523 | Crash Signal from Airbag Control Unit range/performance |
| 17933 | P1525 | Intake Camshaft Contr.Circ.,Bank1 Electrical Malfunction |
| 17934 | P1526 | Intake Camshaft Contr.Circ.,Bank1 Short to B+ |
| 17935 | P1527 | Intake Camshaft Contr.Circ.,Bank1 Short to Ground |
| 17936 | P1528 | Intake Camshaft Contr.Circ.,Bank1 Open |
| 17937 | P1529 | Camshaft Control Circuit Short to B+ |
| 17938 | P1530 | Camshaft Control Circuit Short to ground |
| 17939 | P1531 | Camshaft Control Circuit open |
| 17941 | P1533 | Intake Camshaft Contr.Circ.,Bank2 Electrical Malfunction |
| 17942 | P1534 | Intake Camshaft Contr.Circ.,Bank2 Short to B+ |
| 17943 | P1535 | Intake Camshaft Contr.Circ.,Bank2 Short to Ground |
| 17944 | P1536 | Intake Camshaft Contr.Circ.,Bank2 Open |
| 17945 | P1537 | Engine Shutoff Solenoid Malfunction |
| 17946 | P1538 | Engine Shutoff Solenoid Open/Short to Ground |
| | | Clutch Vacuum Vent Valve Switch Incorrect signal |

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| 17947 | P1539 | |
| 17948 | P1540 | Vehicle Speed Sensor High Input |
| 17949 | P1541 | Fuel Pump Relay Circ Open |
| 17950 | P1542 | Throttle Actuation Potentiometer Range/Performance |
| 17951 | P1543 | Throttle Actuation Potentiometer Signal too Low |
| 17952 | P1544 | Throttle Actuation Potentiometer Signal too High |
| 17953 | P1545 | Throttle Pos.Contr Malfunction |
| 17954 | P1546 | Boost Pressure Contr.Valve Short to B+ |
| 17955 | P1547 | Boost Pressure Contr.Valve Short to Ground |
| 17956 | P1548 | Boost Pressure Contr.Valve Open |
| 17957 | P1549 | Boost Pressure Contr.Valve Short to Ground |
| 17958 | P1550 | Charge Pressure Deviation |
| 17959 | P1551 | Barometric Pressure Sensor Circ. Short to B+ |
| 17960 | P1552 | Barometric Pressure Sensor Circ. Open/Short to Ground |
| 17961 | P1553 | Barometric/manifold pressure signal ratio out of range |
| 17962 | P1554 | Idle Speed Contr.Throttle Pos. Basic Setting Conditions not met |
| 17963 | P1555 | Charge Pressure Upper Limit exceeded |
| 17964 | P1556 | Charge Pressure Contr. Negative Deviation |
| 17965 | P1557 | Charge Pressure Contr. Positive Deviation |
| 17966 | P1558 | Throttle Actuator Electrical Malfunction |
| 17967 | P1559 | Idle Speed Contr.Throttle Pos. Adaptation Malfunction |
| 17968 | P1560 | Maximum Engine Speed Exceeded |
| 17969 | P1561 | Quantity Adjuster Deviation |
| | | Quantity Adjuster Upper Limit Attained |

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| 17970 | P1562 | |
| 17971 | P1563 | Quantity Adjuster Lower Limit Attained |
| 17972 | P1564 | Idle Speed Contr.Throttle Pos. Low Voltage During Adaptation |
| 17973 | P1565 | Idle Speed Control Throttle Position lower limit not attained |
| 17974 | P1566 | Load signal from A/C compressor range/performance |
| 17975 | P1567 | Load signal from A/C compressor no signal |
| 17976 | P1568 | Idle Speed Contr.Throttle Pos. mechanical Malfunction |
| 17977 | P1569 | Cruise control switch Incorrect signal |
| 17978 | P1570 | Contr.Module Locked |
| 17979 | P1571 | Left Eng. Mount Solenoid Valve Short to B+ |
| 17980 | P1572 | Left Eng. Mount Solenoid Valve Short to ground |
| 17981 | P1573 | Left Eng. Mount Solenoid Valve Open circuit |
| 17982 | P1574 | Left Eng. Mount Solenoid Valve Electrical fault in circuit |
| 17983 | P1575 | Right Eng. Mount Solenoid Valve Short to B+ |
| 17984 | P1576 | Right Eng. Mount Solenoid Valve Short to ground |
| 17985 | P1577 | Right Eng. Mount Solenoid Valve Open circuit |
| 17986 | P1578 | Right Eng. Mount Solenoid Valve Electrical fault in circuit |
| 17987 | P1579 | Idle Speed Contr.Throttle Pos. Adaptation not started |
| 17988 | P1580 | Throttle Actuator B1 Malfunction |
| 17989 | P1581 | Idle Speed Contr.Throttle Pos. Basic Setting Not Carried Out |
| 17990 | P1582 | Idle Adaptation at Limit |
| 17991 | P1583 | Transmission mount valves Short to B+ |
| 17992 | P1584 | Transmission mount valves Short to ground |
| | | Transmission mount valves Open circuit |

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| 17993 | P1585 | |
| 17994 | P1586 | Engine mount solenoid valves Short to B+ |
| 17995 | P1587 | Engine mount solenoid valves Short to ground |
| 17996 | P1588 | Engine mount solenoid valves Open circuit |
| 18008 | P1600 | Power Supply (B+) Terminal 15 Low Voltage |
| 18010 | P1602 | Power Supply (B+) Terminal 30 Low Voltage |
| 18011 | P1603 | Internal Control Module Malfunction |
| 18012 | P1604 | Internal Control Module Driver Error |
| 18013 | P1605 | Rough Road/Acceleration Sensor Electrical Malfunction |
| 18014 | P1606 | Rough Road Spec Engine Torque ABS-ECU Electrical Malfunction |
| 18015 | P1607 | Vehicle speed signal Error message from instrument cluster |
| 18016 | P1608 | Steering angle signal Error message from steering angle sensor |
| 18017 | P1609 | Crash shut-down activated |
| 18019 | P1611 | MIL Call-up Circ./Transm.Contr.Module Short to Ground |
| 18020 | P1612 | Electronic Control Module Incorrect Coding |
| 18021 | P1613 | MIL Call-up Circ Open/Short to B+ |
| 18022 | P1614 | MIL Call-up Circ./Transm.Contr.Module Range/Performance |
| 18023 | P1615 | Engine Oil Temperature Sensor Circuit range/performance |
| 18024 | P1616 | Glow Plug/Heater Indicator Circ. Short to B+ |
| 18025 | P1617 | Glow Plug/Heater Indicator Circ. Open/Short to Ground |
| 18026 | P1618 | Glow Plug/Heater Relay Circ. Short to B+ |
| 18027 | P1619 | Glow Plug/Heater Relay Circ. Open/Short to Ground |
| 18028 | P1620 | Engine coolant temperature signal open/short to B+ |
| | | Engine coolant temperature signal short to ground |

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| 18029 | P1621 | |
| 18030 | P1622 | Engine coolant temperature signal range/performance |
| 18031 | P1623 | Data Bus Powertrain No Communication |
| 18032 | P1624 | MIL Request Sign.active |
| 18033 | P1625 | Data-Bus Powertrain Unplausible Message from Transm.Contr. |
| 18034 | P1626 | Data-Bus Powertrain Missing Message from Transm.Contr. |
| 18035 | P1627 | Data-Bus Powertrain missing message from fuel injection pump |
| 18036 | P1628 | Data-Bus Powertrain missing message from steering sensor |
| 18037 | P1629 | Data-Bus Powertrain missing message from distance control |
| 18038 | P1630 | Accelera.Pedal Pos.Sensor 1 Signal too Low |
| 18039 | P1631 | Accelera.Pedal Pos.Sensor 1 Signal too High |
| 18040 | P1632 | Accelera.Pedal Pos.Sensor 1 Power Supply Malfunction |
| 18041 | P1633 | Accelera.Pedal Pos.Sensor 2 Signal too Low |
| 18042 | P1634 | Accelera.Pedal Pos.Sensor 2 Signal too High |
| 18043 | P1635 | Data Bus Powertrain missing message f.air condition control |
| 18044 | P1636 | Data Bus Powertrain missing message from Airbag control |
| 18045 | P1637 | Data Bus Powertrain missing message f.central electr.control |
| 18046 | P1638 | Data Bus Powertrain missing message from clutch control |
| 18047 | P1639 | Accelera.Pedal Pos.Sensor 1+2 Range/Performance |
| 18048 | P1640 | Internal Contr.Module (EEPROM) Error |
| 18049 | P1641 | Please check DTC Memory of Air Condition ECU |
| 18050 | P1642 | Please check DTC Memory of Airbag ECU |
| 18051 | P1643 | Please check DTC Memory of central electric ECU |
| | | Please check DTC Memory of clutch ECU |

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| 18052 | P1644 | |
| 18053 | P1645 | Data Bus Powertrain missing message f.all wheel drive contr. |
| 18054 | P1646 | Please Check DTC Memory of all wheel drive ECU |
| 18055 | P1647 | Please check coding of ECUs in Data Bus Powertrain |
| 18056 | P1648 | Data Bus Powertrain Malfunction |
| 18057 | P1649 | Data Bus Powertrain Missing message from ABS Control Module |
| 18058 | P1650 | Data Bus Powertrain Missing message fr.instrument panel ECU |
| 18059 | P1651 | Data Bus Powertrain missing messages |
| 18060 | P1652 | Please check DTC Memory of transmission ECU |
| 18061 | P1653 | Please check DTC Memory of ABS Control Module |
| 18062 | P1654 | Please check DTC Memory of control panel ECU |
| 18063 | P1655 | Please check DTC Memory of ADR Control Module |
| 18064 | P1656 | A/C clutch relay circuit short to ground |
| 18065 | P1657 | A/C clutch relay circuit short to B+ |
| 18066 | P1658 | Data Bus Powertrain Incorrect signal from ADR Control Module |
| 18084 | P1676 | Drive by Wire-MIL Circ. Electrical Malfunction |
| 18085 | P1677 | Drive by Wire-MIL Circ. Short to B+ |
| 18086 | P1678 | Drive by Wire-MIL Circ. Short to Ground |
| 18087 | P1679 | Drive by Wire-MIL Circ. Open |
| 18089 | P1681 | Contr.Unit Programming, Programming not Finished |
| 18092 | P1684 | Contr.Unit Programming Communication Error |
| 18094 | P1686 | Contr.Unit Error Programming Error |
| 18098 | P1690 | Malfunction Indication Light Malfunction |
| | | Malfunction Indication Light Open |

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| 18099 | P1691 | |
| 18100 | P1692 | Malfunction Indication Light Short to Ground |
| 18101 | P1693 | Malfunction Indication Light Short to B+ |
| 18102 | P1694 | Malfunction Indication Light Open/Short to Ground |
| 18112 | P1704 | Kick Down Switch Malfunction |
| 18113 | P1705 | Gear/Ratio Monitoring Adaptation limit reached |
| 18119 | P1711 | Wheel Speed Signal 1 Range/Performance |
| 18124 | P1716 | Wheel Speed Signal 2 Range/Performance |
| 18129 | P1721 | Wheel Speed Signal 3 Range/Performance |
| 18131 | P1723 | Starter Interlock Circ. Open |
| 18132 | P1724 | Starter Interlock Circ. Short to Ground |
| 18134 | P1726 | Wheel Speed Signal 4 Range/Performance |
| 18136 | P1728 | Different Wheel Speed Signals Range/Performance |
| 18137 | P1729 | Starter Interlock Circ. Short to B+ |
| 18141 | P1733 | Tiptronic Switch Down Circ. Short to Ground |
| 18147 | P1739 | Tiptronic Switch up Circ. Short to Ground |
| 18148 | P1740 | Clutch temperature control |
| 18149 | P1741 | Clutch pressure adaptation at limit |
| 18150 | P1742 | Clutch torque adaptation at limit |
| 18151 | P1743 | Clutch slip control signal too high |
| 18152 | P1744 | Tiptronic Switch Recognition Circ. Short to Ground |
| 18153 | P1745 | Transm.Contr.Unit Relay Short to B+ |
| 18154 | P1746 | Transm.Contr.Unit Relay Malfunction |
| | | Transm.Contr.Unit Relay Open/Short to Ground |

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| 18155 | P1747 | |
| 18156 | P1748 | Transm.Contr.Unit Self-Check |
| 18157 | P1749 | Transm.Contr.Unit Incorrect Coded |
| 18158 | P1750 | Power Supply Voltage Low Voltage |
| 18159 | P1751 | Power Supply Voltage High Voltage |
| 18160 | P1752 | Power Supply Malfunction |
| 18168 | P1760 | Shift Lock Malfunction |
| 18169 | P1761 | Shift Lock Short to Ground |
| 18170 | P1762 | Shift Lock Short to B+ |
| 18171 | P1763 | Shift Lock Open |
| 18172 | P1764 | Transmission temperature control |
| 18173 | P1765 | Hydraulic Pressure Sensor 2 adaptation at limit |
| 18174 | P1766 | Throttle Angle Signal Stuck Off |
| 18175 | P1767 | Throttle Angle Signal Stuck On |
| 18176 | P1768 | Hydraulic Pressure Sensor 2 Too High |
| 18177 | P1769 | Hydraulic Pressure Sensor 2 Too Low |
| 18178 | P1770 | Load Signal Range/Performance |
| 18179 | P1771 | Load Signal Stuck Off |
| 18180 | P1772 | Load Signal Stuck On |
| 18181 | P1773 | Hydraulic Pressure Sensor 1 Too High |
| 18182 | P1774 | Hydraulic Pressure Sensor 1 Too Low |
| 18183 | P1775 | Hydraulic Pressure Sensor 1 adaptation at limit |
| 18184 | P1776 | Hydraulic Pressure Sensor 1 range/performance |
| | | Hydraulic Pressure Sensor 2 range/performance |

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| 18185 | P1777 | |
| 18186 | P1778 | Solenoid EV7 Electrical Malfunction |
| 18189 | P1781 | Engine Torque Reduction Open/Short to Ground |
| 18190 | P1782 | Engine Torque Reduction Short to B+ |
| 18192 | P1784 | Shift up/down Wire Open/Short to Ground |
| 18193 | P1785 | Shift up/down Wire Short to B+ |
| 18194 | P1786 | Reversing Light Circ. Open |
| 18195 | P1787 | Reversing Light Circ. Short to Ground |
| 18196 | P1788 | Reversing Light Circ. Short to B+ |
| 18197 | P1789 | Idle Speed Intervention Circ. Error Message from Engine Contr. |
| 18198 | P1790 | Transmission Range Display Circ. Open |
| 18199 | P1791 | Transmission Range Display Circ. Short to Ground |
| 18200 | P1792 | Transmission Range Display Circ. Short to B+ |
| 18201 | P1793 | Output Speed Sensor 2 Circ. No Signal |
| 18203 | P1795 | Vehicle Speed Signal Circ. Open |
| 18204 | P1796 | Vehicle Speed Signal Circ. Short to Ground |
| 18205 | P1797 | Vehicle Speed Signal Circ. Short to B+ |
| 18206 | P1798 | Output Speed Sensor 2 Circ. Range/Performance |
| 18207 | P1799 | Output Speed Sensor 2 Circ. Rpm too High |
| 18221 | P1813 | Pressure Contr.Solenoid 1 Electrical |
| 18222 | P1814 | Pressure Contr.Solenoid 1 Open/Short to Ground |
| 18223 | P1815 | Pressure Contr.Solenoid 1 Short to B+ |
| 18226 | P1818 | Pressure Contr.Solenoid 2 Electrical |
| | | Pressure Contr.Solenoid 2 Open/Short to Ground |

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| 18227 | P1819 | |
| 18228 | P1820 | Pressure Contr.Solenoid 2 Short to B+ |
| 18231 | P1823 | Pressure Contr.Solenoid 3 Electrical |
| 18232 | P1824 | Pressure Contr.Solenoid 3 Open/Short to Ground |
| 18233 | P1825 | Pressure Contr.Solenoid 3 Short to B+ |
| 18236 | P1828 | Pressure Contr.Solenoid 4 Electrical |
| 18237 | P1829 | Pressure Contr.Solenoid 4 Open/Short to Ground |
| 18238 | P1830 | Pressure Contr.Solenoid 4 Short to B+ |
| 18242 | P1834 | Pressure Contr.Solenoid 5 Open/Short to Ground |
| 18243 | P1835 | Pressure Contr.Solenoid 5 Short to B+ |
| 18249 | P1841 | Engine/Transmission Control Modules Versions do not match |
| 18250 | P1842 | Please check DTC Memory of instrument panel ECU |
| 18251 | P1843 | Please check DTC Memory of ADR Control Module |
| 18252 | P1844 | Please check DTC Memory of central electric control ECU |
| 18255 | P1847 | Please check DTC Memory of brake system ECU |
| 18256 | P1848 | Please check DTC Memory of engine ECU |
| 18257 | P1849 | Please check DTC Memory of transmission ECU |
| 18258 | P1850 | Data-Bus Powertrain Missing Message from Engine Contr. |
| 18259 | P1851 | Data-Bus Powertrain Missing Message from Brake Contr. |
| 18260 | P1852 | Data-Bus Powertrain Unplausible Message from Engine Contr. |
| 18261 | P1853 | Data-Bus Powertrain Unplausible Message from Brake Contr. |
| 18262 | P1854 | Data-Bus Powertrain Hardware Defective |
| 18263 | P1855 | Data-Bus Powertrain Software version Contr. |
| | | Throttle/Pedal Pos.Sensor A Circ. Error Message from Engine Contr. |

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| 18264 | P1856 | |
| 18265 | P1857 | Load Signal Error Message from Engine Contr. |
| 18266 | P1858 | Engine Speed Input Circ. Error Message from Engine Contr. |
| 18267 | P1859 | Brake Switch Circ. Error Message from Engine Contr. |
| 18268 | P1860 | Kick Down Switch Error Message from Engine Contr. |
| 18269 | P1861 | Throttle Position (TP) sensor Error Message from ECM |
| 18270 | P1862 | Data Bus Powertrain Missing message from instr. panel ECU |
| 18271 | P1863 | Data Bus Powertrain Missing Message from St. Angle Sensor |
| 18272 | P1864 | Data Bus Powertrain Missing message from ADR control module |
| 18273 | P1865 | Data Bus Powertrain Missing message from central electronics |
| 18274 | P1866 | Data Bus Powertrain Missing messages |

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Aftermarket suppliers of diagnostic scan tools

The following suppliers offer diagnostic scan tools that can be used to retrieve scan tool codes as listed in the table above.

- Autologic
116 Spring Road
Huntington, NY 11743
Phone: 1-877 946-6442
www.autologic.us
- Baum Tools Unlimited, Inc.
PO Box 5867
Sarasota, FL 34277
(800)848-6657
www.baumtools.com
- Mac Tools
4635 Hilton Corporate Drive
Columbus, OH 43232
(800)622-8655
www.mactools.com
- Ross-Tech
888 Sumneytown Pike
Lansdale, PA 19446
215-361-8942
www.ross-tech.com

- Snap-On Technologies, Inc.
2801 80th St.
Kenosha, WI 53141-1410
(262)656-5200
www.snapon.com
- Versatile Automotive Diagnostics
7561 - 134A Street
Surrey, BC Canada V3W 7B3
Phone: 604-598-8520
www.versatileautomotivediagnostics.com

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