

VW Diagnostic Trouble Codes (DTC)

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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.

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.

VW 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.

Some codes

DTC P-code Description

- 16394 P0010 -A- Camshaft Position Actuator Circuit Bank 1 Malfunction
- 16395 P0020 -A- Camshaft Position Actuator Circuit Bank 2 Malfunction
- P0031 Front oxygen (A/F) sensor heater circuit low input
- P0032 Front oxygen (A/F) sensor heater circuit high input
- P0037 Rear oxygen sensor heater circuit malfunction
- P0038 Rear oxygen sensor heater circuit high input
- 16449 P0065 Air Assisted Injector Control Range/Performance
Air assist injector solenoid valve malfunction
- 16450 P0066 Air Assisted Injector Control Low Input/Short to ground
Air assist injector solenoid valve circuit low input
- 16451 P0067 Air Assisted Injector Control Input/Short to B+
Air assist injector solenoid valve circuit high input
- P0100 Mass or Volume Air Flow Circuit Malfunction
- 16485 P0101 Mass or Volume Air Flow Circuit Range/Performance
Mass or Volume Air Flow Circuit Range/Performance Problem
- 16486 P0102 Mass or Volume Air Flow Circuit Low Input
Mass or Volume Air Flow Circuit Low Input
- 16487 P0103 Mass or Volume Air Flow Circuit High Input
Mass or Volume Air Flow Circuit High Input
- P0104 Mass or Volume Air Flow Circuit Intermittent
- 16489 P0105 Manifold Absolute Pressure or Barometric Pressure Voltage supply
Manifold Absolute Pressure/Barometric Pressure Circuit Malfunction
- 16490 P0106 Manifold Absolute Pressure or Barometric Pressure
Range/Performance
*Manifold Absolute Pressure/Barometric Pressure Circuit
Range/Performance Problem*
- 16491 P0107 Manifold Absolute Pressure or Barometric Pressure Low Input
Manifold Absolute Pressure/Barometric Pressure Circuit Low Input
- 16492 P0108 Manifold Absolute Pressure or Barometric Pressure High Input
Manifold Absolute Pressure/Barometric Pressure Circuit High Input
- P0109 Manifold Absolute Pressure/Barometric Pressure Circuit

Intermittent

- P0110 Intake Air Temperature Circuit Malfunction
- P0111 Intake Air Temperature Circuit Range/Performance Problem
- 16496 P0112 Intake Air Temperature Circuit Low Input
Intake Air Temperature Circuit Low Input
- 16497 P0113 Intake Air Temperature Circuit High Input
Intake Air Temperature Circuit High Input
- P0114 Intake Air Temperature Circuit Intermittent
- P0115 Engine Coolant Temperature Circuit Malfunction
- 16500 P0116 Engine Coolant Temperature Circuit Range/Performance
Engine Coolant Temperature Circuit Range/Performance Problem
- 16501 P0117 Engine Coolant Temperature Circuit Low Input
Engine Coolant Temperature Circuit Low Input
- 16502 P0118 Engine Coolant Temperature Circuit High Input
Engine Coolant Temperature Circuit High Input
- P0119 Engine Coolant Temperature Circuit Intermittent
- 16504 P0120 Throttle/Pedal Position Sensor A Circuit Malfunction
Throttle/Petal Position Sensor/Switch A Circuit Malfunction
- 16505 P0121 Throttle/Pedal Position Sensor A Circuit Range/Performance
Throttle/Petal Position Sensor/Switch A Circuit Range/Performance Problem
- 16506 P0122 Throttle/Pedal Position Sensor A Circuit Low Input
Throttle/Petal Position Sensor/Switch A Circuit Low Input
- 16507 P0123 Throttle/Pedal Position Sensor A Circuit High Input
Throttle/Petal Position Sensor/Switch A Circuit High Input
- P0124 Throttle/Petal Position Sensor/Switch A Circuit Intermittent
- 16509 P0125 Insufficient Coolant Temperature for Closed Loop Fuel Control
Insufficient Coolant Temperature for Closed Loop Fuel Control
- P0126 Insufficient Coolant Temperature for Stable Operation
- 16512 P0128 Coolant Thermostat/Valve Temperature below control range
Thermostat malfunction
- 16514 P0130 O₂ Sensor Circuit, Bank1-Sensor1 Malfunction
O2 Sensor Circuit Range/Performance Problem - Malfunction (Bank 1 Sensor 1)
- 16515 P0131 O₂ Sensor Circuit, Bank1-Sensor1 Low Voltage
O2 Sensor Circuit Range/Performance Problem - Low Input (Bank 1 Sensor 1)
- 16516 P0132 O₂ Sensor Circuit, Bank1-Sensor1 High Voltage
O2 Sensor Circuit Range/Performance Problem - High Input (Bank 1 Sensor 1)
- 16517 P0133 O₂ Sensor Circuit, Bank1-Sensor1 Slow Response
O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)
- 16518 P0134 O₂ Sensor Circuit, Bank1-Sensor1 No Activity Detected

- O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 1)*
- 16519 P0135 O₂ Sensor Heater Circuit, Bank1-Sensor1 Malfunction
O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)
- 16520 P0136 O₂ Sensor Circuit, Bank1-Sensor2 Malfunction
O2 Sensor Circuit Range/Performance Problem - Malfunction (Bank 1 Sensor 2)
- 16521 P0137 O₂ Sensor Circuit, Bank1-Sensor2 Low Voltage
O2 Sensor Circuit Range/Performance Problem - Low Input (Bank 1 Sensor 2)
- 16522 P0138 O₂ Sensor Circuit, Bank1-Sensor2 High Voltage
O2 Sensor Circuit Range/Performance Problem - High Input (Bank 1 Sensor 2)
- 16523 P0139 O₂ Sensor Circuit, Bank1-Sensor2 Slow Response
O2 Sensor Circuit Slow Response (Bank 1 Sensor 2)
- 16524 P0140 O₂ Sensor Circuit, Bank1-Sensor2 No Activity Detected
O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 2)
- 16525 P0141 O₂ Sensor Heater Circuit, Bank1-Sensor2 Malfunction
O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)
- P0142 O₂ Sensor Circuit Range/Performance Problem - Malfunction (Bank 1 Sensor 3)
- P0143 O₂ Sensor Circuit Range/Performance Problem - Low Input (Bank 1 Sensor 3)
- P0144 O₂ Sensor Circuit Range/Performance Problem - High Input (Bank 1 Sensor 3)
- P0145 O₂ Sensor Circuit Slow Response (Bank 1 Sensor 3)
- P0146 O₂ Sensor Circuit No Activity Detected (Bank 1 Sensor 3)
- P0147 O₂ Sensor Heater Circuit Malfunction (Bank 1 Sensor 3)
- 16534 P0150 O₂ Sensor Circuit, Bank2-Sensor1 Malfunction
O2 Sensor Circuit Range/Performance Problem - Malfunction (Bank 2 Sensor 1)
- 16535 P0151 O₂ Sensor Circuit, Bank2-Sensor1 Low Voltage
O2 Sensor Circuit Range/Performance Problem - Low Input (Bank 2 Sensor 1)
- 16536 P0152 O₂ Sensor Circuit, Bank2-Sensor1 High Voltage
O2 Sensor Circuit Range/Performance Problem - High Input (Bank 2 Sensor 1)
- 16537 P0153 O₂ Sensor Circuit, Bank2-Sensor1 Slow Response
O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)
- 16538 P0154 O₂ Sensor Circuit, Bank2-Sensor1 No Activity Detected
O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 1)
- 16539 P0155 O₂ Sensor Heater Circuit, Bank2-Sensor1 Malfunction
O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)

- 16540 P0156 O₂ Sensor Circuit, Bank2-Sensor2 Malfunction
O2 Sensor Circuit Range/Performance Problem - Malfunction (Bank 2 Sensor 2)
- 16541 P0157 O₂ Sensor Circuit, Bank2-Sensor2 Low Voltage
O2 Sensor Circuit Range/Performance Problem - Low Input (Bank 2 Sensor 2)
- 16542 P0158 O₂ Sensor Circuit, Bank2-Sensor2 High Voltage
O2 Sensor Circuit Range/Performance Problem - High Input (Bank 2 Sensor 2)
- 16543 P0159 O₂ Sensor Circuit, Bank2-Sensor2 Slow Response
O2 Sensor Circuit Slow Response (Bank 2 Sensor 2)
- 16544 P0160 O₂ Sensor Circuit, Bank2-Sensor2 No Activity Detected
O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 2)
- 16545 P0161 O₂ Sensor Heater Circuit, Bank2-Sensor2 Malfunction
O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 2)
- P0162 O2 Sensor Circuit Range/Performance Problem - Malfunction (Bank 2 Sensor 3)
- P0163 O2 Sensor Circuit Range/Performance Problem - Low Input (Bank 2 Sensor 3)
- P0164 O2 Sensor Circuit Range/Performance Problem - High Input (Bank 2 Sensor 3)
- P0165 O2 Sensor Circuit Slow Response (Bank 2 Sensor 3)
- P0166 O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 3)
- P0167 O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 3)
- 16554 P0170 Fuel Trim, Bank1 Malfunction
Fuel Trim Malfunction (Bank 1)
- 16555 P0171 Fuel Trim, Bank1 System too Lean
System too Lean (Bank 1)
- 16556 P0172 Fuel Trim, Bank1 System too Rich
System too Rich (Bank 1)
- 16557 P0173 Fuel Trim, Bank2 Malfunction
Fuel Trim Malfunction (Bank 2)
- 16558 P0174 Fuel Trim, Bank2 System too Lean
System too Lean (Bank 2)
- 16559 P0175 Fuel Trim, Bank2 System too Rich
System too Rich (Bank 2)
- P0176 Fuel Composition Sensor Circuit Malfunction
- P0177 Fuel Composition Sensor Circuit Range/Performance
- P0178 Fuel Composition Sensor Circuit Low Input
- P0179 Fuel Composition Sensor Circuit High Input
- P0180 Fuel Temperature Sensor A Circuit Malfunction
- P0181 Fuel Temperature Sensor A Circuit Range/Performance

16566 P0182 Fuel temperature sender-G81 Short to ground
Fuel Temperature Sensor A Circuit Low Input

16567 P0183 Fuel temperature sender-G81 Interruption/Short to B+
Fuel Temperature Sensor A Circuit High Input

P0184 Fuel Temperature Sensor A Circuit Intermittent

P0185 Fuel Temperature Sensor B Circuit Malfunction

P0186 Fuel Temperature Sensor B Circuit Range/Performance

P0187 Fuel Temperature Sensor B Circuit Low Input

P0188 Fuel Temperature Sensor B Circuit High Input

P0189 Fuel Temperature Sensor B Circuit Intermittent

P0190 Fuel Rail Pressure Sensor Circuit Malfunction

P0191 Fuel Rail Pressure Sensor Circuit Range/Performance

P0192 Fuel Rail Pressure Sensor Circuit Low Input

P0193 Fuel Rail Pressure Sensor Circuit High Input

P0194 Fuel Rail Pressure Sensor Circuit Intermittent

P0195 Engine Oil Temperature Sensor Malfunction

P0196 Engine Oil Temperature Sensor Range/Performance

16581 P0197 Engine Oil Temperature Circuit Low Input
Engine Oil Temperature Sensor Low

16582 P0198 Engine Oil Temperature Circuit High Input
Engine Oil Temperature Sensor High

P0199 Engine Oil Temperature Sensor Intermittent

P0200 Injector Circuit Malfunction

16585 P0201 Cylinder 1, Injector Circuit Fault in electrical circuit
Injector Circuit Malfunction - Cylinder 1

16586 P0202 Cylinder 2, Injector Circuit Fault in electrical circuit
Injector Circuit Malfunction - Cylinder 2

16587 P0203 Cylinder 3, Injector Circuit Fault in electrical circuit
Injector Circuit Malfunction - Cylinder 3

16588 P0204 Cylinder 4, Injector Circuit Fault in electrical circuit
Injector Circuit Malfunction - Cylinder 4

16589 P0205 Cylinder 5, Injector Circuit Fault in electrical circuit
Injector Circuit Malfunction - Cylinder 5

16590 P0206 Cylinder 6, Injector Circuit Fault in electrical circuit
Injector Circuit Malfunction - Cylinder 6

16591 P0207 Cylinder 7, Injector Circuit Fault in electrical circuit
Injector Circuit Malfunction - Cylinder 7

16592 P0208 Cylinder 8, Injector Circuit Fault in electrical circuit
Injector Circuit Malfunction - Cylinder 8

P0209 Injector Circuit Malfunction - Cylinder 9

P0210 Injector Circuit Malfunction - Cylinder 10

P0211 Injector Circuit Malfunction - Cylinder 11

P0212 Injector Circuit Malfunction - Cylinder 12

P0213 Cold Start Injector 1 Malfunction

P0214 Cold Start Injector 2 Malfunction

16599 P0215 Engine Shut-Off Solenoid Malfunction
Engine Shutoff Solenoid Malfunction

16600 P0216 Injector/Injection Timing Control Malfunction
Injection Timing Control Circuit Malfunction

P0217 Engine Overtemp Condition

P0218 Transmission Over Temperature Condition

16603 P0219 Engine Overspeed Condition
Engine Overspeed Condition

P0220 Throttle/Petal Position Sensor/Switch B Circuit Malfunction

16605 P0221 Throttle Position Sensor -B- Circuit Range/Performance
Throttle/Petal Position Sensor/Switch B Circuit Range/Performance Problem

16606 P0222 Throttle Position Sensor -B- Circuit Low Input
Throttle/Petal Position Sensor/Switch B Circuit Low Input

16607 P0223 Throttle Position Sensor -B- Circuit High Input
Throttle/Petal Position Sensor/Switch B Circuit High Input

P0224 Throttle/Petal Position Sensor/Switch B Circuit Intermittent

16609 P0225 Throttle Position Sensor -C- Circuit Voltage supply
Throttle/Petal Position Sensor/Switch C Circuit Malfunction

16610 P0226 Throttle Position Sensor -C- Circuit Range/Performance
Throttle/Petal Position Sensor/Switch C Circuit Range/Performance Problem

16611 P0227 Throttle Position Sensor -C- Circuit Low Input
Throttle/Petal Position Sensor/Switch C Circuit Low Input

16612 P0228 Throttle Position Sensor -C- Circuit High Input
Throttle/Petal Position Sensor/Switch C Circuit High Input

P0229 Throttle/Petal Position Sensor/Switch C Circuit Intermittent

16614 P0230 Fuel Pump Primary Circuit Fault in electrical circuit
Fuel Pump Primary Circuit Malfunction

P0231 Fuel Pump Secondary Circuit Low

P0232 Fuel Pump Secondary Circuit High

P0233 Fuel Pump Secondary Circuit Intermittent

16618 P0234 Turbocharger Overboost Condition Control limit exceeded
Engine Overboost Condition

16619 P0235 Turbocharger Boost Sensor (A) Circuit Control limit not reached
Turbocharger Boost Sensor A Circuit Malfunction

16620 P0236 Turbocharger Boost Sensor (A) Circuit Range/Performance
Turbocharger Boost Sensor A Circuit Range/Performance

16621 P0237 Turbocharger Boost Sensor (A) Circuit Low Input
Turbocharger Boost Sensor A Circuit Low

- 16622 P0238 Turbocharger Boost Sensor (A) Circuit High Input
Turbocharger Boost Sensor A Circuit High
- P0239 Turbocharger Boost Sensor B Malfunction
- P0240 Turbocharger Boost Sensor B Circuit Range/Performance
- P0241 Turbocharger Boost Sensor B Circuit Low
- P0242 Turbocharger Boost Sensor B Circuit High
- 16627 P0243 Turbocharger Wastegate Solenoid (A) Open/Short Circuit to Ground
Turbocharger Wastegate Solenoid A Malfunction
- P0244 Turbocharger Wastegate Solenoid A Range/Performance
- 16629 P0245 Turbocharger Wastegate Solenoid (A) Low Input/Short to ground
Turbocharger Wastegate Solenoid A Low
- 16630 P0246 Turbocharger Wastegate Solenoid (A) High Input/Short to B+
Turbocharger Wastegate Solenoid A High
- P0247 Turbocharger Wastegate Solenoid B Malfunction
- P0248 Turbocharger Wastegate Solenoid B Range/Performance
- P0249 Turbocharger Wastegate Solenoid B Low
- P0250 Turbocharger Wastegate Solenoid B High
- P0251 Injection Pump Fuel Metering Control "A" Malfunction
(Cam/Rotor/Injector)
- 16636 P0252 Injection Pump Fuel Metering Control (A) Range/Performance
*Injection Pump Fuel Metering Control "A" Range/Performance
(Cam/Rotor/Injector)*
- P0253 Injection Pump Fuel Metering Control "A" Low (Cam/Rotor/Injector)
- P0254 Injection Pump Fuel Metering Control "A" High (Cam/Rotor/Injector)
- P0255 Injection Pump Fuel Metering Control "A" Intermittent
(Cam/Rotor/Injector)
- P0256 Injection Pump Fuel Metering Control "B" Malfunction
(Cam/Rotor/Injector)
- P0257 Injection Pump Fuel Metering Control "B" Range/Performance
(Cam/Rotor/Injector)
- P0258 Injection Pump Fuel Metering Control "B" Low (Cam/Rotor/Injector)
- P0259 Injection Pump Fuel Metering Control "B" High (Cam/Rotor/Injector)
- P0260 Injection Pump Fuel Metering Control "B" Intermittent
(Cam/Rotor/Injector)
- 16645 P0261 Cylinder 1 Injector Circuit Low Input/Short to ground
Cylinder 1 Injector Circuit Low
- 16646 P0262 Cylinder 1 Injector Circuit High Input/Short to B+
Cylinder 1 Injector Circuit High
- P0263 Cylinder 1 Contribution/Balance Fault
- 16648 P0264 Cylinder 2 Injector Circuit Low Input/Short to ground
Cylinder 2 Injector Circuit Low

16649 P0265 Cylinder 2 Injector Circuit High Input/Short to B+
Cylinder 2 Injector Circuit High

P0266 Cylinder 2 Contribution/Balance Fault

16651 P0267 Cylinder 3 Injector Circuit Low Input/Short to ground
Cylinder 3 Injector Circuit Low

16652 P0268 Cylinder 3 Injector Circuit High Input/Short to B+
Cylinder 3 Injector Circuit High

P0269 Cylinder 3 Contribution/Balance Fault

16654 P0270 Cylinder 4 Injector Circuit Low Input/Short to ground
Cylinder 4 Injector Circuit Low

16655 P0271 Cylinder 4 Injector Circuit High Input/Short to B+
Cylinder 4 Injector Circuit High

P0272 Cylinder 4 Contribution/Balance Fault

16657 P0273 Cylinder 5 Injector Circuit Low Input/Short to ground
Cylinder 5 Injector Circuit Low

16658 P0274 Cylinder 5 Injector Circuit High Input/Short to B+
Cylinder 5 Injector Circuit High

P0275 Cylinder 5 Contribution/Balance Fault

16660 P0276 Cylinder 6 Injector Circuit Low Input/Short to ground
Cylinder 6 Injector Circuit Low

16661 P0277 Cylinder 6 Injector Circuit High Input/Short to B+
Cylinder 6 Injector Circuit High

P0278 Cylinder 6 Contribution/Balance Fault

16663 P0279 Cylinder 7 Injector Circuit Low Input/Short to ground
Cylinder 7 Injector Circuit Low

16664 P0280 Cylinder 7 Injector Circuit High Input/Short to B+
Cylinder 7 Injector Circuit High

P0281 Cylinder 7 Contribution/Balance Fault

16666 P0282 Cylinder 8 Injector Circuit Low Input/Short to ground
Cylinder 8 Injector Circuit Low

16667 P0283 Cylinder 8 Injector Circuit High Input/Short to B+
Cylinder 8 Injector Circuit High

P0284 Cylinder 8 Contribution/Balance Fault

P0285 Cylinder 9 Injector Circuit Low

P0286 Cylinder 9 Injector Circuit High

P0287 Cylinder 9 Contribution/Balance Fault

P0288 Cylinder 10 Injector Circuit Low

P0289 Cylinder 10 Injector Circuit High

P0290 Cylinder 10 Contribution/Balance Fault

P0291 Cylinder 11 Injector Circuit Low

P0292 Cylinder 11 Injector Circuit High

P0293 Cylinder 11 Contribution/Balance Fault

P0294 Cylinder 12 Injector Circuit Low
P0295 Cylinder 12 Injector Circuit High
P0296 Cylinder 12 Contribution/Range Fault
16684 P0300 Random/Multiple Cylinder Misfire Detected
Random/Multiple Cylinder Misfire Detected
16685 P0301 Cylinder 1 Misfire Detected
Cylinder 1 Misfire Detected
16686 P0302 Cylinder 2 Misfire Detected
Cylinder 2 Misfire Detected
16687 P0303 Cylinder 3 Misfire Detected
Cylinder 3 Misfire Detected
16688 P0304 Cylinder 4 Misfire Detected
Cylinder 4 Misfire Detected
16689 P0305 Cylinder 5 Misfire Detected
Cylinder 5 Misfire Detected
16690 P0306 Cylinder 6 Misfire Detected
Cylinder 6 Misfire Detected
16691 P0307 Cylinder 7 Misfire Detected
Cylinder 7 Misfire Detected
16692 P0308 Cylinder 8 Misfire Detected
Cylinder 8 Misfire Detected
P0309 Cylinder 9 Misfire Detected
P0310 Cylinder 10 Misfire Detected
P0311 Cylinder 11 Misfire Detected
P0312 Cylinder 12 Misfire Detected
16697 P0313 Misfire Detected Low Fuel Level
16698 P0314 Single Cylinder Misfire
P0320 Ignition/Distributor Engine Speed Input Circuit Malfunction
16705 P0321 Ign. /Distributor Engine Speed Inp. Circuit Range/Performance
Ignition/Distributor Engine Speed Input Circuit Range/Performance
16706 P0322 Ign. /Distributor Engine Speed Inp. Circuit No Signal
Ignition/Distributor Engine Speed Input Circuit No Signal
P0323 Ignition/Distributor Engine Speed Input Circuit Intermittent
16709 P0325 Knock Sensor 1 Circuit Electrical Fault in Circuit
Knock Sensor 1 Circuit Malfunction (Bank 1 or Single Sensor)
16710 P0326 Knock Sensor 1 Circuit Range/Performance
Knock Sensor 1 Circuit Range/Performance (Bank 1 or Single Sensor)
16711 P0327 Knock Sensor 1 Circuit Low Input
Knock Sensor 1 Circuit Low Input (Bank 1 or Single Sensor)
16712 P0328 Knock Sensor 1 Circuit High Input
Knock Sensor 1 Circuit High Input (Bank 1 or Single Sensor)
P0329 Knock Sensor 1 Circuit Intermittent (Bank 1 or Single Sensor)

P0330 Knock Sensor 2 Circuit Malfunction (Bank 2)

P0331 Knock Sensor 2 Circuit Range/Performance (Bank 2)

16716 P0332 Knock Sensor 2 Circuit Low Input
Knock Sensor 2 Circuit Low Input (Bank 2)

16717 P0333 Knock Sensor 2 Circuit High Input
Knock Sensor 2 Circuit High Input (Bank 2)

P0334 Knock Sensor 2 Circuit Intermittent (Bank 2)

16719 P0335 Crankshaft Position Sensor (A) Circuit Malfunction
Crankshaft Position Sensor A Circuit Malfunction

16720 P0336 Crankshaft Position Sensor (A) Circuit Range/Performance/Missing
tooth
Crankshaft Position Sensor A Circuit Range/Performance

16721 P0337 Crankshaft Position Sensor (A) Circuit Low Input
Crankshaft Position Sensor A Circuit Low Input

P0338 Crankshaft Position Sensor A Circuit High Input

P0339 Crankshaft Position Sensor A Circuit Intermittent

16724 P0340 Camshaft Position Sensor (A) Circuit Incorrect allocation
Camshaft Position Sensor Circuit Malfunction

16725 P0341 Camshaft Position Sensor Circuit Range/Performance
Camshaft Position Sensor Circuit Range/Performance

16726 P0342 Camshaft Position Sensor Circuit Low Input
Camshaft Position Sensor Circuit Low Input

16727 P0343 Camshaft Position Sensor Circuit High Input
Camshaft Position Sensor Circuit High Input

P0344 Camshaft Position Sensor Circuit Intermittent

P0350 Ignition Coil Primary/Secondary Circuit Malfunction

16735 P0351 Ignition Coil (A) Cylinder 1 Pimary /Secondary Circuit Malfunction
Ignition Coil A Primary/Secondary Circuit Malfunction

16736 P0352 Ignition Coil (B) Cylinder 2 Pimary /Secondary Circuit Malfunction
Ignition Coil B Primary/Secondary Circuit Malfunction

16737 P0353 Ignition Coil (C) Cylinder 3 Pimary /Secondary Circuit Malfunction
Ignition Coil C Primary/Secondary Circuit Malfunction

16738 P0354 Ignition Coil (D) Cylinder 4 Pimary /Secondary Circuit Malfunction
Ignition Coil D Primary/Secondary Circuit Malfunction

16739 P0355 Ignition Coil (E) Cylinder 5 Pimary /Secondary Circuit Malfunction
Ignition Coil E Primary/Secondary Circuit Malfunction

16740 P0356 Ignition Coil (F) Cylinder 6 Pimary /Secondary Circuit Malfunction
Ignition Coil F Primary/Secondary Circuit Malfunction

16741 P0357 Ignition Coil (G) Cylinder 7 Pimary /Secondary Circuit Malfunction
Ignition Coil G Primary/Secondary Circuit Malfunction

16742 P0358 Ignition Coil (H) Cylinder 8 Pimary /Secondary Circuit Malfunction
Ignition Coil H Primary/Secondary Circuit Malfunction

P0359 Ignition Coil I Primary/Secondary Circuit Malfunction

P0360 Ignition Coil J Primary/Secondary Circuit Malfunction
P0361 Ignition Coil K Primary/Secondary Circuit Malfunction
P0362 Ignition Coil L Primary/Secondary Circuit Malfunction
P0370 Timing Reference High Resolution Signal A Malfunction
P0371 Timing Reference High Resolution Signal A Too Many Pulses
P0372 Timing Reference High Resolution Signal A Too Few Pulses
P0373 Timing Reference High Resolution Signal A Intermittent/Erratic Pulses
P0374 Timing Reference High Resolution Signal A No Pulses
P0375 Timing Reference High Resolution Signal B Malfunction
P0376 Timing Reference High Resolution Signal B Too Many Pulses
P0377 Timing Reference High Resolution Signal B Too Few Pulses
P0378 Timing Reference High Resolution Signal B Intermittent/Erratic Pulses
P0379 Timing Reference High Resolution Signal B No Pulses
16764 P0380 Glow Plug/Heater Circuit (A) Electrical Fault in Circuit
Glow Plug/Heater Circuit "A" Malfunction
P0381 Glow Plug/Heater Indicator Circuit Malfunction
P0382 Exhaust Gas Recirculation Flow Malfunction
P0385 Crankshaft Position Sensor B Circuit Malfunction
P0386 Crankshaft Position Sensor B Circuit Range/Performance
P0387 Crankshaft Position Sensor B Circuit Low Input
P0388 Crankshaft Position Sensor B Circuit High Input
P0389 Crankshaft Position Sensor B Circuit Intermittent
16784 P0400 Exhaust Gas Recirculation Flow Malfunction
Exhaust Gas Recirculation Flow Malfunction
16785 P0401 Exhaust Gas Recirculation Flow Insufficient Detected
Exhaust Gas Recirculation Flow Insufficient Detected
16786 P0402 Exhaust Gas Recirculation Flow Excessive Detected
Exhaust Gas Recirculation Flow Excessive Detected
16787 P0403 Exhaust Gas Recirculation Control Circuit Malfunction
Exhaust Gas Recirculation Control Circuit Malfunction
16788 P0404 Exhaust Gas Recirculation Control Circuit Range/Performance
Exhaust Gas Recirculation Control Circuit Range/Performance
16789 P0405 Exhaust Gas Recirculation Sensor (A) Circuit Low Input
Exhaust Gas Recirculation Sensor A Circuit Low
16790 P0406 Exhaust Gas Recirculation Sensor (A) Circuit High Input
Exhaust Gas Recirculation Sensor A Circuit High
16791 P0407 Exhaust Gas Recirculation Sensor (B) Circuit Low Input
Exhaust Gas Recirculation Sensor B Circuit Low
16792 P0408 Exhaust Gas Recirculation Sensor (B) Circuit High Input
Exhaust Gas Recirculation Sensor B Circuit High

- 16794 P0410 Secondary Air Injection System Malfunction
Secondary Air Injection System Malfunction
- 16795 P0411 Secondary Air Injection System Incorrect Flow Detected
Secondary Air Injection System Incorrect Flow Detected
- 16796 P0412 Secondary Air Injection System Switching Valve A Circuit Malfunction
Secondary Air Injection System Switching Valve A Circuit Malfunction
- P0413 Secondary Air Injection System Switching Valve A Circuit Open
- P0414 Secondary Air Injection System Switching Valve A Circuit Shorted
- P0415 Secondary Air Injection System Switching Valve B Circuit Malfunction
- P0416 Secondary Air Injection System Switching Valve B Circuit Open
- P0417 Secondary Air Injection System Switching Valve B Circuit Shorted
- 16802 P0418 Secondary Air Injection System Relay (A) Control Circuit Malfunction
Secondary Air Injection System Relay "A" Circuit Malfunction
- P0419 Secondary Air Injection System Relay "B" Circuit Malfunction
- 16804 P0420 Catalyst System, Bank1 Efficiency Below Threshold
Catalyst System Efficiency Below Threshold (Bank 1)
- P0421 Warm Up Catalyst Efficiency Below Threshold (Bank 1)
- 16806 P0422 Main Catalyst, Bank1 Below Threshold
Main Catalyst Efficiency Below Threshold (Bank 1)
- P0423 Heated Catalyst Efficiency Below Threshold (Bank 1)
- P0424 Heated Catalyst Temperature Below Threshold (Bank 1)
- P0426 Catalyst Temperature Sensor Range/Performance (Bank 1)
- 16811 P0427 Catalyst Temperature Sensor, Bank 1 Low Input/Short to ground
Catalyst Temperature Sensor Low Input (Bank 1)
- 16812 P0428 Catalyst Temperature Sensor, Bank 1 High Input/Open/Short Circuit to B+
Catalyst Temperature Sensor High Input (Bank 1)
- P0430 Catalyst System Efficiency Below Threshold (Bank 2)
- P0431 Warm Up Catalyst Efficiency Below Threshold (Bank 2)
- 16816 P0432 Main Catalyst, Bank2 Efficiency Below Threshold
Main Catalyst Efficiency Below Threshold (Bank 2)
- P0433 Heated Catalyst Efficiency Below Threshold (Bank 2)
- P0434 Heated Catalyst Temperature Below Threshold (Bank 2)
- 16820 P0436 Catalyst Temperature Sensor, Bank 2 Range/Performance
Catalyst Temperature Sensor Range/Performance (Bank 2)
- 16821 P0437 Catalyst Temperature Sensor, Bank 2 Low Input/Short to ground
Catalyst Temperature Sensor Low Input (Bank 2)
- 16822 P0438 Catalyst Temperature Sensor, Bank 2 High Input/Open/Short Circuit to B+
Catalyst Temperature Sensor High Input (Bank 2)

- 16824 P0440 EVAP Emission Control System Malfunction
Evaporative Emission Control System Malfunction
- 16825 P0441 EVAP Emission Control System Incorrect Purge Flow
Evaporative Emission Control System Incorrect Purge Flow
- 16826 P0442 EVAP Emission Control System (Small Leak) Leak Detected
Evaporative Emission Control System Leak Detected (small leak)
- 16827 P0443 EVAP Emission Control System Purge Valve Circuit Electrical Fault
in Circuit
*Evaporative Emission Control System Purge Control Valve Circuit
Malfunction*
- P0444 Evaporative Emission Control System Purge Control Valve Circuit
Open
- P0445 Evaporative Emission Control System Purge Control Valve Circuit
Shorted
- P0446 Evaporative Emission Control System Vent Control Circuit
Malfunction
- P0447 Evaporative Emission Control System Vent Control Circuit Open
- P0448 Evaporative Emission Control System Vent Control Circuit Shorted
- P0449 Evaporative Emission Control System Vent Valve/Solenoid Circuit
Malfunction
- P0450 Evaporative Emission Control System Pressure Sensor Malfunction
- P0451 Evaporative Emission Control System Pressure Sensor
Range/Performance
- 16836 P0452 EVAP Emission Control System Press. Sensor Low Input
Evaporative Emission Control System Pressure Sensor Low Input
- 16837 P0453 EVAP Emission Control System Press. Sensor High Input
Evaporative Emission Control System Pressure Sensor High Input
- P0454 Evaporative Emission Control System Pressure Sensor Intermittent
- 16839 P0455 EVAP Emission Control System (Gross Leak) Leak Detected
Evaporative Emission Control System Leak Detected (gross leak)
- P0456 Evaporative emission control system malfunction
- P0457 Evaporative Emission Control System Leak Detected (gross leak)
- P0460 Fuel Level Sensor Circuit Malfunction
- 16845 P0461 Fuel Level Sensor Circuit Range/Performance
Fuel Level Sensor Circuit Range/Performance
- 16846 P0462 Fuel Level Sensor Circuit Low Input
Fuel Level Sensor Circuit Low Input
- 16847 P0463 Fuel Level Sensor Circuit High Input
Fuel Level Sensor Circuit High Input
- P0464 Fuel Level Sensor Circuit Intermittent
- P0465 Purge Flow Sensor Circuit Malfunction
- P0466 Purge Flow Sensor Circuit Range/Performance
- P0467 Purge Flow Sensor Circuit Low Input

P0468 Purge Flow Sensor Circuit High Input
P0469 Purge Flow Sensor Circuit Intermittent
P0470 Exhaust Pressure Sensor Malfunction
P0471 Exhaust Pressure Sensor Range/Performance
P0472 Exhaust Pressure Sensor Low
P0473 Exhaust Pressure Sensor High
P0474 Exhaust Pressure Sensor Intermittent
P0475 Exhaust Pressure Control Valve Malfunction
P0476 Exhaust Pressure Control Valve Range/Performance
P0477 Exhaust Pressure Control Valve Low
P0478 Exhaust Pressure Control Valve High
P0479 Exhaust Pressure Control Valve Intermittent
P0480 Cooling Fan 1 Control Circuit Malfunction
P0481 Cooling Fan 2 Control Circuit Malfunction
P0482 Cooling Fan 3 Control Circuit Malfunction
P0483 Cooling Fan Rationality Check Malfunction
P0484 Cooling Fan Circuit Over Current
P0485 Cooling Fan Power/Ground Circuit Malfunction
P0500 Vehicle Speed Sensor Malfunction
16885 P0501 Vehicle Speed Sensor Range/Performance
Vehicle Speed Sensor Range/Performance
P0502 Vehicle Speed Sensor Low Input
16887 P0503 Vehicle Speed Sensor Intermittent/Erratic/High Input
Vehicle Speed Sensor Intermittent/Erratic/High
16889 P0505 Idle Control System Malfunction
Idle Control System Malfunction
16890 P0506 Idle Control System RPM Lower than Expected
Idle Control System RPM Lower Than Expected
16891 P0507 Idle Control System Higher than Expected
Idle Control System RPM Higher Than Expected
P0508 Idle control system circuit low input
P0509 Idle control system circuit high input
16894 P0510 Closed Throttle Position Switch Malfunction
Closed Throttle Position Switch Malfunction
P0512 Starter switch circuit high input
P0520 Engine Oil Pressure Sensor/Switch Circuit Malfunction
P0521 Engine Oil Pressure Sensor/Switch Circuit Range/Performance
P0522 Engine Oil Pressure Sensor/Switch Circuit Low Voltage
P0523 Engine Oil Pressure Sensor/Switch Circuit High Voltage
P0530 A/C Refrigerant Pressure Sensor Circuit Malfunction

- 16915 P0531 A/C Refrigerant Pressure Sensor Circuit Range/Performance
A/C Refrigerant Pressure Sensor Circuit Range/Performance
- 16916 P0532 A/C Refrigerant Pressure Sensor Circuit Low Input
A/C Refrigerant Pressure Sensor Circuit Low Input
- 16917 P0533 A/C Refrigerant Pressure Sensor Circuit High Input
A/C Refrigerant Pressure Sensor Circuit High Input
- P0534 Air Conditioner Refrigerant Charge Loss
- P0545 Exhaust gas temperature sensor circuit low input
- P0546 Exhaust gas temperature sensor circuit high input
- P0550 Power Steering Pressure Sensor Circuit Malfunction
- 16935 P0551 Power Steering Pressure Sensor Circuit Range/Performance
Power Steering Pressure Sensor Circuit Range/Performance
- P0552 Power Steering Pressure Sensor Circuit Low Input
- P0553 Power Steering Pressure Sensor Circuit High Input
- P0554 Power Steering Pressure Sensor Circuit Intermittent
- 16944 P0560 System Voltage Malfunction
System Voltage Malfunction
- P0561 System Voltage Unstable
- 16946 P0562 System Voltage Low Voltage
System Voltage Low
- 16947 P0563 System Voltage High Voltage
System Voltage High
- P0565 Cruise Control On Signal Malfunction
- P0566 Cruise Control Off Signal Malfunction
- P0567 Cruise Control Resume Signal Malfunction
- 16952 P0568 Cruise Control Set Signal Incorrect Signal
Cruise Control Set Signal Malfunction
- P0569 Cruise Control Coast Signal Malfunction
- P0570 Cruise Control Accel Signal Malfunction
- 16955 P0571 Cruise/Brake Switch (A) Circuit Malfunction
Cruise Control/Brake Switch A Circuit Malfunction
- P0572 Cruise Control/Brake Switch A Circuit Low
- P0573 Cruise Control/Brake Switch A Circuit High
- P0574 Cruise Control Related Malfunction
- P0575 Cruise Control Related Malfunction
- P0576 Cruise Control Related Malfunction
Cruise Control Related Malfunction
- P0578 Cruise Control Related Malfunction
- P0579 Cruise Control Related Malfunction
- P0580 Cruise Control Related Malfunction
- 16984 P0600 Serial Communication Link (Data Bus) Message Missing

Serial Communication Link Malfunction

- 16985 P0601 Internal Control Module Memory Check Sum Error
Internal Control Module Memory Check Sum Error
- 16986 P0602 Control Module Programming Error/Malfunction
Control Module Programming Error
- 16987 P0603 Internal Control Module (KAM) Error
Internal Control Module Keep Alive Memory (KAM) Error
- 16988 P0604 Internal Control Module Random Access Memory (RAM) Error
Internal Control Module Random Access Memory (RAM) Error
- 16989 P0605 Internal Control Module ROM Test Error
Internal Control Module Read Only Memory (ROM) Error
- 16990 P0606 ECM/PCM Processor
PCM Processor Fault
- P0608 Control Module VSS Output "A" Malfunction
- P0609 Control Module VSS Output "B" Malfunction
- P0620 Generator Control Circuit Malfunction
- P0621 Generator Lamp "L" Control Circuit Malfunction
- P0622 Generator Field "F" Control Circuit Malfunction
- 17026 P0642 Knock Control Control Module Malfunction
- 17029 P0645 A/C Clutch Relay Control Circuit
- 17034 P0650 MIL Control Circuit Electrical Fault in Circuit
Malfunction Indicator Lamp (MIL) Control Circuit Malfunction
- 17038 P0654 Engine RPM Output Circuit Electrical Fault in Circuit
Engine RPM Output Circuit Malfunction
- P0655 Engine Hot Lamp Output Control Circuit Malfunction
- 17040 P0656 Fuel Level Output Circuit Electrical Fault in Circuit
Fuel Level Output Circuit Malfunction
- 17084 P0700 Transmission Control System Malfunction
Transmission Control System Malfunction
- P0701 Transmission Control System Range/Performance
- 17086 P0702 Transmission Control System Electrical
Transmission Control System Electrical
- 17087 P0703 Torque Converter/Brake Switch B Circuit Malfunction
Torque Converter/Brake Switch B Circuit Malfunction
- P0704 Clutch Switch Input Circuit Malfunction
- 17089 P0705 Transmission Range Sensor Circuit (PRNDL Inp.) Malfunction
Transmission Range Sensor Circuit malfunction (PRNDL Input)
- 17090 P0706 Transmission Range Sensor Circuit Range/Performance
Transmission Range Sensor Circuit Range/Performance
- 17091 P0707 Transmission Range Sensor Circuit Low Input
Transmission Range Sensor Circuit Low Input
- 17092 P0708 Transmission Range Sensor Circuit High Input
Transmission Range Sensor Circuit High Input

P0709 Transmission Range Sensor Circuit Intermittent

17094 P0710 Transmission Fluid Temperature Sensor Circuit Malfunction
Transmission Fluid Temperature Sensor Circuit Malfunction

17095 P0711 Transmission Fluid Temperature Sensor Circuit Range/Performance
Transmission Fluid Temperature Sensor Circuit Range/Performance

17096 P0712 Transmission Fluid Temperature Sensor Circuit Low Input
Transmission Fluid Temperature Sensor Circuit Low Input

17097 P0713 Transmission Fluid Temperature Sensor Circuit High Input
Transmission Fluid Temperature Sensor Circuit High Input

P0714 Transmission Fluid Temperature Sensor Circuit Intermittent

17099 P0715 Input Turbine/Speed Sensor Circuit Malfunction
Input/Turbine Speed Sensor Circuit Malfunction

17100 P0716 Input Turbine/Speed Sensor Circuit Range/Performance
Input/Turbine Speed Sensor Circuit Range/Performance

17101 P0717 Input Turbine/Speed Sensor Circuit No Signal
Input/Turbine Speed Sensor Circuit No Signal

P0718 Input/Turbine Speed Sensor Circuit Intermittent

P0719 Torque Converter/Brake Switch B Circuit Low

P0720 Output Speed Sensor Circuit Malfunction

17105 P0721 Output Speed Sensor Circuit Range/Performance
Output Speed Sensor Range/Performance

17106 P0722 Output Speed Sensor Circuit No Signal
Output Speed Sensor No Signal

P0723 Output Speed Sensor Intermittent

P0724 Torque Converter/Brake Switch B Circuit High

17109 P0725 Engine Speed Inp. Circuit Malfunction
Engine Speed input Circuit Malfunction

17110 P0726 Engine Speed Inp. Circuit Range/Performance
Engine Speed Input Circuit Range/Performance

17111 P0727 Engine Speed Inp. Circuit No Signal
Engine Speed Input Circuit No Signal

P0728 Engine Speed Input Circuit Intermittent

17114 P0730 Gear Incorrect Ratio
Incorrect Gear Ratio

17115 P0731 Gear 1 Incorrect Ratio
Gear 1 Incorrect ratio

17116 P0732 Gear 2 Incorrect Ratio
Gear 2 Incorrect ratio

17117 P0733 Gear 3 Incorrect Ratio
Gear 3 Incorrect ratio

17118 P0734 Gear 4 Incorrect Ratio
Gear 4 Incorrect ratio

17119 P0735 Gear 5 Incorrect Ratio

Gear 5 Incorrect ratio

- P0736 Reverse incorrect gear ratio
- 17124 P0740 Torque Converter Clutch Circuit Malfunction
Torque Converter Clutch Circuit Malfunction
- 17125 P0741 Torque Converter Clutch Circuit Performance or Stuck Off
Torque Converter Clutch Circuit Performance or Stuck Off
- P0742 Torque Converter Clutch Circuit Stuck On
- P0743 Torque Converter Clutch Circuit Electrical
- P0744 Torque Converter Clutch Circuit Intermittent
- P0745 Pressure Control Solenoid Malfunction
- P0746 Pressure Control Solenoid Performance or Stuck Off
- P0747 Pressure Control Solenoid Stuck On
- 17132 P0748 Pressure Control Solenoid Electrical
Pressure Control Solenoid Electrical
- P0749 Pressure Control Solenoid Intermittent
- 17134 P0750 Shift Solenoid A malfunction
Shift Solenoid A Malfunction
- 17135 P0751 Shift Solenoid A Performance or Stuck Off
Shift Solenoid A Performance or Stuck Off
- 17136 P0752 Shift Solenoid A Stuck On
Shift Solenoid A Stuck On
- 17137 P0753 Shift Solenoid A Electrical
Shift Solenoid A Electrical
- P0754 Shift Solenoid A Intermittent
- P0755 Shift Solenoid B Malfunction
- 17140 P0756 Shift Solenoid B Performance or Stuck Off
Shift Solenoid B Performance or Stuck Off
- 17141 P0757 Shift Solenoid B Stuck On
Shift Solenoid B Stuck On
- 17142 P0758 Shift Solenoid B Electrical
Shift Solenoid B Electrical
- P0759 Shift Solenoid B Intermittent
- P0760 Shift Solenoid C Malfunction
- 17145 P0761 Shift Solenoid C Performance or Stuck Off
Shift Solenoid C Performance or Stuck Off
- 17146 P0762 Shift Solenoid C Stuck On
Shift Solenoid C Stuck On
- 17147 P0763 Shift Solenoid C Electrical
Shift Solenoid C Electrical
- P0764 Shift Solenoid C Intermittent
- P0765 Shift Solenoid D Malfunction
- P0766 Shift Solenoid D Performance or Stuck Off

P0767 Shift Solenoid D Stuck On

17152 P0768 Shift Solenoid D Electrical
Shift Solenoid D Electrical

P0769 Shift Solenoid D Intermittent

P0770 Shift Solenoid E Malfunction

P0771 Shift Solenoid E Performance or Stuck Off

P0772 Shift Solenoid E Stuck On

17157 P0773 Shift Solenoid E Electrical
Shift Solenoid E Electrical

P0774 Shift Solenoid E Intermittent

P0775 Pressure Control Solenoid B Malfunction

P0776 Pressure Control Solenoid B Performance

P0777 Pressure Control Solenoid B Stuck On

P0778 Pressure Control Solenoid B Electrical

P0779 Pressure Control Solenoid B Intermittent

P0780 Shift Malfunction

P0781 1-2 Shift Malfunction

P0782 2-3 Shift Malfunction

P0783 3-4 Shift Malfunction

P0784 4-5 Shift Malfunction

P0785 Shift/Timing Solenoid Malfunction

P0786 Shift/Timing Solenoid Range/Performance

P0787 Shift/Timing Solenoid Low

P0788 Shift/Timing Solenoid High

P0789 Shift/Timing Solenoid Intermittent

17174 P0790 Normal/Performance Switch Circuit Malfunction
Normal/Performance Switch Circuit Malfunction

P0801 Reverse Inhibit Control Circuit Malfunction

P0803 1-4 Upshift (Skip Shift) Solenoid Control Circuit Malfunction

P0804 1-4 Upshift (Skip Shift) Lamp Control Circuit Malfunction

P1086 Tumble generator valve #2 (LH) position sensor circuit low input

P1087 Tumble generator valve #2 (LH) position sensor circuit high input

P1088 Tumble generator valve #1 (RH) position sensor circuit low input

P1089 Tumble generator valve #1 (RH) position sensor circuit high input

P1090 Tumble generator valve #1 (RH) malfunction (stuck open)

P1091 Tumble generator valve #1 (RH) malfunction (stuck close)

P1092 Tumble generator valve #2 (LH) malfunction (stuck open)

P1093 Tumble generator valve #2 (LH) malfunction (stuck close)

P1094 Tumble generator valve circuit #1 (opencircuit)

P1095 Tumble generator valve circuit #1 (overcurrent)
P1096 Tumble generator valve circuit #2 (opencircuit)
P1097 Tumble generator valve circuit #2 (overcurrent)
17509 P1101 O₂ Sensor Circuit, Bank1-Sensor1 Voltage too Low/Air Leak
17510 P1102 O₂ Sensor Heating Circuit, Bank1-Sensor1 Short to B+
17511 P1103 O₂ Sensor Heating Circuit, Bank1-Sensor1 Output too Low
17512 P1104 Bank1-Sensor2 Voltage too Low/Air Leak
17513 P1105 O₂ Sensor Heating Circuit, Bank1-Sensor2 Short to B+
17514 P1106 O₂ Sensor Circuit, Bank2-Sensor1 Voltage too Low/Air Leak
17515 P1107 O₂ Sensor Heating Circuit, Bank2-Sensor1 Short to B+
17516 P1108 O₂ Sensor Heating Circuit, Bank2-Sensor1 Output too Low
17517 P1109 O₂ Sensor Circuit, Bank2-Sensor2 Voltage too Low/Air Leak
17518 P1110 O₂ Sensor Heating Circuit, Bank2-Sensor2 Short to B+
Atmospheric pressure sensor low input
17519 P1111 O₂ Control (Bank 1) System too lean
Atmospheric pressure sensor high input
17520 P1112 O₂ Control (Bank 1) System too rich
Atmospheric pressure sensor range/performance problem
17521 P1113 Bank1-Sensor1 Internal Resistance too High
17522 P1114 Bank1-Sensor2 Internal Resistant too High
17523 P1115 O₂ Sensor Heater Circuit, Bank1-Sensor1 Short to Ground
17524 P1116 O₂ Sensor Heater Circuit, Bank1-Sensor1 Open
17525 P1117 O₂ Sensor Heater Circuit, Bank1-Sensor2 Short to Ground
17526 P1118 O₂ Sensor Heater Circuit, Bank1-Sensor2 Open
17527 P1119 O₂ Sensor Heater Circuit, Bank2-Sensor1 Short to Ground
17528 P1120 O₂ Sensor Heater Circuit, Bank2-Sensor1 Open
17529 P1121 O₂ Sensor Heater Circuit, Bank2-Sensor2 Short to Ground
17530 P1122 O₂ Sensor Heater Circuit, Bank2-Sensor2 Open
17531 P1123 Long Term Fuel Trim Add. Air., Bank1 System too Rich
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
Front oxygen sensor circuit malfunction (open circuit)
- 17539 P1131 Bank2-Sensor1 Internal Resistance too High
Front oxygen sensor circuit malfunction (short circuit)
- 17540 P1132 O₂ Sensor Heating Circuit, Bank1+2-Sensor1 Short to B+
- 17541 P1133 O₂ Sensor Heating Circuit, Bank1+2-Sensor1 Electrical Malfunction
- 17542 P1134 O₂ Sensor Heating Circuit, Bank1+2-Sensor2 Short to B+
Front oxygen (A/F) sensor microcomputer problem
- 17543 P1135 O₂ Sensor Heating Circuit, 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
Front oxygen (A/F) sensor circuit range/performance problem
- 17546 P1138 Long Term Fuel Trim Add. Fuel, Bank2 System too Lean
- 17547 P1139 Long Term Fuel Trim Add. Fuel, Bank2 System too Rich
Front oxygen (A/F) sensor #1 heater circuit performance/range problem
- 17548 P1140 Bank2-Sensor2 Internal Resistance too High
- 17549 P1141 Load Calculation Cross Check Range/Performance
Mass air flow sensor circuit range/performance problem (low input)
- 17550 P1142 Load Calculation Cross Check Lower Limit Exceeded
Throttle position sensor circuit range/performance problem (low input)
- 17551 P1143 Load Calculation Cross Check Upper Limit Exceeded
- 17552 P1144 Mass or Volume Air Flow Circuit Open/Short to Ground
- 17553 P1145 Mass or Volume Air Flow Circuit Short to B+
- 17554 P1146 Mass or Volume Air Flow Circuit Supply Malfunction
Pressure sensor circuit range/performance problem (high input)
- 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 Absolute Pressure Sensor Circuit Short to B+
- 17564 P1156 Manifold Absolute Pressure Sensor Circuit Open/Short to Ground
- 17565 P1157 Manifold Absolute Pressure Sensor Circuit Power Supply Malfunction
- 17566 P1158 Manifold Absolute Pressure Sensor Circuit Range/Performance

17568 P1160 Manifold Temperature Sensor Circuit Short to Ground
17569 P1161 Manifold Temperature Sensor Circuit Open/Short to B+
17570 P1162 Fuel Temperature Sensor Circuit Short to Ground
17571 P1163 Fuel Temperature Sensor Circuit 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 Signal 2 Range/Performance
17580 P1172 Throttle Actuation Potentiometer Signal 2 Signal too Low
17581 P1173 Throttle Actuation Potentiometer Signal 2 Signal too High
17582 P1174 Fuel Trim, Bank 1 Different injection times
17584 P1176 O₂ Correction Behind Catalyst, B1 Limit Attained
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 Circuit, Bank1-Sensor1 Electrical Malfunction
17605 P1197 O₂ Sensor Heater Circuit, Bank2-Sensor1 Electrical Malfunction
17606 P1198 O₂ Sensor Heater Circuit, Bank1-Sensor2 Electrical Malfunction
17607 P1199 O₂ Sensor Heater Circuit, Bank2-Sensor2 Electrical Malfunction
17609 P1201 Cylinder 1-Fuel Injection Circuit Electrical Malfunction
17610 P1202 Cylinder 2-Fuel Injection Circuit Electrical Malfunction
17611 P1203 Cylinder 3-Fuel Injection Circuit Electrical Malfunction

17612 P1204 Cylinder 4-Fuel Injection Circuit Electrical Malfunction
17613 P1205 Cylinder 5-Fuel Injection Circuit Electrical Malfunction
17614 P1206 Cylinder 6-Fuel Injection Circuit Electrical Malfunction
17615 P1207 Cylinder 7-Fuel Injection Circuit Electrical Malfunction
17616 P1208 Cylinder 8-Fuel Injection Circuit 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 Cylinder 1-Fuel Injection Circuit Short to B+
17622 P1214 Cylinder 2-Fuel Injection Circuit Short to B+
17623 P1215 Cylinder 3-Fuel Injection Circuit Short to B+
17624 P1216 Cylinder 4-Fuel Injection Circuit Short to B+
17625 P1217 Cylinder 5-Fuel Injection Circuit Short to B+
17626 P1218 Cylinder 6-Fuel Injection Circuit Short to B+
17627 P1219 Cylinder 7-Fuel Injection Circuit Short to B+
17628 P1220 Cylinder 8-Fuel Injection Circuit 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 Cylinder 1-Fuel Injection Circuit Short to Ground
17634 P1226 Cylinder 2-Fuel Injection Circuit Short to Ground
17635 P1227 Cylinder 3-Fuel Injection Circuit Short to Ground
17636 P1228 Cylinder 4-Fuel Injection Circuit Short to Ground
17637 P1229 Cylinder 5-Fuel Injection Circuit Short to Ground
17638 P1230 Cylinder 6-Fuel Injection Circuit Short to Ground
Fuel pump control unit malfunction
17639 P1231 Cylinder 7-Fuel Injection Circuit Short to Ground
17640 P1232 Cylinder 8-Fuel Injection Circuit Short to Ground
17645 P1237 Cylinder 1-Fuel Injection Circuit Open Circuit
17646 P1238 Cylinder 2-Fuel Injection Circuit Open Circuit
17647 P1239 Cylinder 3-Fuel Injection Circuit Open Circuit
17648 P1240 Cylinder 4-Fuel Injection Circuit Open Circuit
17649 P1241 Cylinder 5-Fuel Injection Circuit Open Circuit
17650 P1242 Cylinder 6-Fuel Injection Circuit Open Circuit
17651 P1243 Cylinder 7-Fuel Injection Circuit Open Circuit
17652 P1244 Cylinder 8-Fuel Injection Circuit Open Circuit
Wastegate control solenoid valve malfunction (low input)
17653 P1245 Needle Lift Sensor Circuit Short to Ground
Wastegate control solenoid valve malfunction (fail-safe)

17654 P1246 Needle Lift Sensor Circuit Range/Performance
17655 P1247 Needle Lift Sensor Circuit 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 Circuit Short to B+
17660 P1252 Start of Injection Solenoid Circuit Open/Short to Ground
17661 P1253 Fuel consumption signal Short to ground
17662 P1254 Fuel consumption signal Short to B+
17663 P1255 Engine Coolant Temperature Circuit Short to Ground
17664 P1256 Engine Coolant Temperature Circuit Open/Short to B+
17665 P1257 Engine Coolant System Valve Open
17666 P1258 Engine Coolant System Valve Short to B+
17667 P1259 Engine Coolant System Valve Short to Ground
17688 P1280 Fuel Injection Air Control Valve Circuit Flow too Low
17691 P1283 Fuel Injection Air Control Valve Circuit Electrical Malfunction
17692 P1284 Fuel Injection Air Control Valve Circuit Open
17693 P1285 Fuel Injection Air Control Valve Circuit Short to Ground
17694 P1286 Fuel Injection Air Control Valve Circuit 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
 P1301 Fire due to increased exhaust temperature
 P1312 Exhaust temperature sensor malfunction
17721 P1319 Knock Sensor 1 Circuit Short to Ground
17728 P1320 Knock Sensor 2 Circuit Short to Ground
17729 P1321 Knock Sensor 3 Circuit Low Input
17730 P1322 Knock Sensor 3 Circuit High Input
17731 P1323 Knock Sensor 4 Circuit Low Input
17732 P1324 Knock Sensor 4 Circuit High Input
17733 P1325 Cylinder 1-Knock Control Limit Attained
17734 P1326 Cylinder 2-Knock Control Limit Attained
17735 P1327 Cylinder 3-Knock Control Limit Attained
17736 P1328 Cylinder 4-Knock Control Limit Attained
17737 P1329 Cylinder 5-Knock Control Limit Attained

17738 P1330 Cylinder 6-Knock Control Limit Attained
17739 P1331 Cylinder 7-Knock Control Limit Attained
17740 P1332 Cylinder 8-Knock Control Limit Attained
17743 P1335 Engine Torque Monitoring 2 Control Limit Exceeded
17744 P1336 Engine Torque Monitoring Adaptation at limit
17745 P1337 Camshaft Position Sensor, Bank1 Short to Ground
17746 P1338 Camshaft Position Sensor, Bank1 Open Circuit /Short to B+
17747 P1339 Crankshaft Position /Engine Speed Sensor Cross Connected
17748 P1340 Crankshaft-/Camshaft Position Sensor 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 Position Sensor Signal 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 Displacement Sensor Circuit Malfunction
17763 P1355 Cylinder 1, ignition circuit Open Circuit
17764 P1356 Cylinder 1, ignition circuit Short to B+
17765 P1357 Cylinder 1, ignition circuit Short to ground
17766 P1358 Cylinder 2, ignition circuit Open Circuit
17767 P1359 Cylinder 2, ignition circuit Short Circuit to B+
17768 P1360 Cylinder 2, ignition circuit Short Circuit to Ground
17769 P1361 Cylinder 3, ignition circuit Open Circuit
17770 P1362 Cylinder 3, ignition circuit Short Circuit to B+
17771 P1363 Cylinder 3, ignition circuit Short Circuit to ground
17772 P1364 Cylinder 4, ignition circuit Open Circuit
17773 P1365 Cylinder 4, ignition circuit Short circuit to B+
17774 P1366 Cylinder 4, ignition circuit Short circuit to ground
17775 P1367 Cylinder 5, ignition circuit Open Circuit
17776 P1368 Cylinder 5, ignition circuit Short Circuit to B+
17777 P1369 Cylinder 5, ignition circuit short to ground
17778 P1370 Cylinder 6, ignition circuit Open Circuit
17779 P1371 Cylinder 6, ignition circuit Short Circuit to B+

17780 P1372 Cylinder 6, ignition circuit short to ground
17781 P1373 Cylinder 7, ignition circuit Open Circuit
17782 P1374 Cylinder 7, ignition circuit Short Circuit to B+
17783 P1375 Cylinder 7, ignition circuit short to ground
17784 P1376 Cylinder 8, ignition circuit Open Circuit
17785 P1377 Cylinder 8, ignition circuit Short Circuit to B+
17786 P1378 Cylinder 8, ignition circuit short to ground
17794 P1386 Internal Control Module Knock Control Circuit Error
17795 P1387 Internal Control Module altitude sensor error
17796 P1388 Internal Control Module drive by wire error
17799 P1391 Camshaft Position Sensor, Bank2 Short to Ground
17800 P1392 Camshaft Position Sensor, Bank2 Open Circuit /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 Circuit Electrical Malfunction
Fuel tank pressure control solenoid valve circuit low input
17809 P1401 EGR Valve Circuit Short to Ground
17810 P1402 EGR Valve Circuit Short to B+
17811 P1403 EGR Flow Deviation
17812 P1404 EGR Flow Basic Setting not carried out
17814 P1406 EGR Temperature Sensor Range/Performance
17815 P1407 EGR Temperature Sensor Signal too Low
17816 P1408 EGR Temperature Sensor Signal too High
17817 P1409 Tank Ventilation Valve Circuit Electrical Malfunction
17818 P1410 Tank Ventilation Valve Circuit Short to B+
17819 P1411 Secondary Air Injection System, Bank2 Flow too Flow
17820 P1412 EGR Differential Pressure Sensor Signal too Low
17821 P1413 EGR Differential Pressure Sensor Signal too High
17822 P1414 Secondary Air Injection System, Bank2 Leak Detected
17825 P1417 Fuel Level Sensor Circuit Signal too Low
17826 P1418 Fuel Level Sensor Circuit Signal too High
17828 P1420 Secondary Air Injection Valve Circuit Electrical Malfunction
Fuel tank pressure control solenoid valve circuit high input

17829 P1421 Secondary Air Injection Valve Circuit Short to Ground

17830 P1422 Secondary Air Injection System Control Valve Circuit Short to B+

17831 P1423 Secondary Air Injection System, Bank1 Flow too Low

17832 P1424 Secondary Air Injection System, Bank1 Leak Detected

17833 P1425 Tank Ventilation Valve Short to Ground

17834 P1426 Tank Ventilation Valve Open

17840 P1432 Secondary Air Injection Valve Open

17841 P1433 Secondary Air Injection System Pump Relay Circuit open

17842 P1434 Secondary Air Injection System Pump Relay Circuit Short to B+

17843 P1435 Secondary Air Injection System Pump Relay Circuit Short to ground

17844 P1436 Secondary Air Injection System Pump Relay Circuit Electrical Malfunction

17847 P1439 EGR Potentiometer Error in Basic Setting

17848 P1440 EGR Valve Power Stage Open

17849 P1441 EGR Valve Circuit Open/Short to Ground

17850 P1442 EGR Valve Position Sensor Signal too high

17851 P1443 EGR Valve Position Sensor Signal too low
Evaporative emission control system vent control function problem

17852 P1444 EGR Valve Position Sensor range/performance

17853 P1445 Catalyst Temperature Sensor 2 Circuit Range/Performance

17854 P1446 Catalyst Temperature Circuit Short to Ground

17855 P1447 Catalyst Temperature Circuit Open/Short to B+

17856 P1448 Catalyst Temperature Sensor 2 Circuit Short to Ground

17857 P1449 Catalyst Temperature Sensor 2 Circuit Open/Short to B+

17858 P1450 Secondary Air Injection System Circuit Short to B+

17859 P1451 Secondary Air Injection System Circuit Short to Ground

17860 P1452 Secondary Air Injection System Open Circuit

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

17878 P1470 EVAP Emission Control LDP Circuit Electrical Malfunction

17879 P1471 EVAP Emission Control LDP Circuit Short to B+

17880 P1472 EVAP Emission Control LDP Circuit Short to Ground

17881 P1473 EVAP Emission Control LDP Circuit Open Circuit

17882 P1474 EVAP Canister Purge Solenoid Valve electrical malfunction

17883 P1475 EVAP Emission Control LDP Circuit Malfunction/Signal Circuit Open

17884 P1476 EVAP Emission Control LDP Circuit Malfunction/Insufficient Vacuum

17885 P1477 EVAP Emission Control LDP Circuit Malfunction

17886 P1478 EVAP Emission Control LDP Circuit Clamped Tube Detected

P1480 Cooling fan relay 1 circuit high input

17908 P1500 Fuel Pump Relay Circuit Electrical Malfunction

17909 P1501 Fuel Pump Relay Circuit Short to Ground

17910 P1502 Fuel Pump Relay Circuit Short to B+

17911 P1503 Load signal from Alternator Term. DF Range/performance/Incorrect Signal

17912 P1504 Intake Air System Bypass Leak Detected

17913 P1505 Closed Throttle Position Does Not Close/Open Circuit

17914 P1506 Closed Throttle Position Switch Does Not Open/Short to Ground

17915 P1507 Idle System Learned Value Lower Limit Attained
Idle control system malfunction (fail-safe)

17916 P1508 Idle System Learned Value Upper Limit Attained

17917 P1509 Idle Air Control Circuit Electrical Malfunction

17918 P1510 Idle Air Control Circuit Short to B+
Idle air control solenoid valve signal 1 circuit low input

17919 P1511 Intake Manifold Changeover Valve circuit electrical malfunction
Idle air control solenoid valve signal 1 circuit high input

17920 P1512 Intake Manifold Changeover Valve circuit Short to B+
Idle air control solenoid valve signal 2 circuit low input

17921 P1513 Intake Manifold Changeover Valve2 circuit Short to B+
Idle air control solenoid valve signal 2 circuit high input

17922 P1514 Intake Manifold Changeover Valve2 circuit Short to ground
Idle air control solenoid valve signal 3 circuit low input

17923 P1515 Intake Manifold Changeover Valve circuit Short to Ground
Idle air control solenoid valve signal 3 circuit high input

17924 P1516 Intake Manifold Changeover Valve circuit Open

Idle air control solenoid valve signal 4 circuit low input

- 17925 P1517 Main Relay Circuit Electrical Malfunction
Idle air control solenoid valve signal 4 circuit high input
- 17926 P1518 Main Relay Circuit Short to B+
Starter switch circuit low input
- 17927 P1519 Intake Camshaft Control, Bank1 Malfunction
- 17928 P1520 Intake Manifold Changeover Valve2 circuit Open
- 17929 P1521 Intake Manifold Changeover Valve2 circuit electrical malfunction
- 17930 P1522 Intake Camshaft Control, Bank2 Malfunction
- 17931 P1523 Crash Signal from Airbag Control Unit range/performance
- 17933 P1525 Intake Camshaft Control Circuit, Bank1 Electrical Malfunction
- 17934 P1526 Intake Camshaft Control Circuit, Bank1 Short to B+
- 17935 P1527 Intake Camshaft Control Circuit, Bank1 Short to Ground
- 17936 P1528 Intake Camshaft Control Circuit, 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 Control Circuit, Bank2 Electrical Malfunction
- 17942 P1534 Intake Camshaft Control Circuit, Bank2 Short to B+
- 17943 P1535 Intake Camshaft Control Circuit, Bank2 Short to Ground
- 17944 P1536 Intake Camshaft Control Circuit, Bank2 Open
- 17945 P1537 Engine Shutoff Solenoid Malfunction
- 17946 P1538 Engine Shutoff Solenoid Open/Short to Ground
- 17947 P1539 Clutch Vacuum Vent Valve Switch Incorrect signal
- 17948 P1540 Vehicle Speed Sensor High Input
Vehicle speed sensor malfunction 2
- 17949 P1541 Fuel Pump Relay Circuit Open
- 17950 P1542 Throttle Actuation Potentiometer Range/Performance
- 17951 P1543 Throttle Actuation Potentiometer Signal too Low
- 17952 P1544 Throttle Actuation Potentiometer Signal too High
High exhaust temperature detected
- 17953 P1545 Throttle Position Control Malfunction
- 17954 P1546 Boost Pressure Control Valve Short to B+
- 17955 P1547 Boost Pressure Control Valve Short to Ground
- 17956 P1548 Boost Pressure Control Valve Open
- 17957 P1549 Boost Pressure Control Valve Short to Ground
- 17958 P1550 Charge Pressure Deviation
- 17959 P1551 Barometric Pressure Sensor Circuit Short to B+
- 17960 P1552 Barometric Pressure Sensor Circuit Open/Short to Ground

17961 P1553 Barometric/manifold pressure signal ratio out of range

17962 P1554 Idle Speed Control Throttle Position Basic Setting Conditions not met

17963 P1555 Charge Pressure Upper Limit exceeded

17964 P1556 Charge Pressure Control Negative Deviation

17965 P1557 Charge Pressure Control Positive Deviation

17966 P1558 Throttle Actuator Electrical Malfunction

17967 P1559 Idle Speed Control Throttle Position Adaptation Malfunction

17968 P1560 Maximum Engine Speed Exceeded
Back-up voltage circuit malfunction

17969 P1561 Quantity Adjuster Deviation

17970 P1562 Quantity Adjuster Upper Limit Attained

17971 P1563 Quantity Adjuster Lower Limit Attained

17972 P1564 Idle Speed Control Throttle Position 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 Control Throttle Position mechanical Malfunction

17977 P1569 Cruise control switch Incorrect signal

17978 P1570 Control Module Locked

17979 P1571 Left Engine Mount Solenoid Valve Short to B+

17980 P1572 Left Engine Mount Solenoid Valve Short to ground

17981 P1573 Left Engine Mount Solenoid Valve Open circuit

17982 P1574 Left Engine Mount Solenoid Valve Electrical fault in circuit

17983 P1575 Right Engine Mount Solenoid Valve Short to B+

17984 P1576 Right Engine Mount Solenoid Valve Short to ground

17985 P1577 Right Engine Mount Solenoid Valve Open circuit

17986 P1578 Right Engine Mount Solenoid Valve Electrical fault in circuit

17987 P1579 Idle Speed Control Throttle Position Adaptation not started

17988 P1580 Throttle Actuator B1 Malfunction

17989 P1581 Idle Speed Control Throttle Position 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

17993 P1585 Transmission mount valves Open circuit

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

P1590 Neutral position switch circuit high input
P1591 Neutral position switch circuit low input
P1592 Neutral position switch circuit (MT model)
P1594 Automatic transmission diagnosis input signal circuit malfunction
P1595 Automatic transmission diagnosis input signal circuit low input
P1596 Automatic transmission diagnosis input signal circuit high input
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 Circuit /Transmission Control Module Short to Ground
18020 P1612 Electronic Control Module Incorrect Coding
18021 P1613 MIL Call-up Circuit Open/Short to B+
18022 P1614 MIL Call-up Circuit /Transmission Control Module
Range/Performance
18023 P1615 Engine Oil Temperature Sensor Circuit range/performance
18024 P1616 Glow Plug/Heater Indicator Circuit Short to B+
18025 P1617 Glow Plug/Heater Indicator Circuit Open/Short to Ground
18026 P1618 Glow Plug/Heater Relay Circuit Short to B+
18027 P1619 Glow Plug/Heater Relay Circuit Open/Short to Ground
18028 P1620 Engine coolant temperature signal open/short to B+
18029 P1621 Engine coolant temperature signal short to ground
18030 P1622 Engine coolant temperature signal range/performance
18031 P1623 Data Bus Powertrain No Communication
18032 P1624 MIL Request Signal active
18033 P1625 Data-Bus Powertrain Unplausible Message from Transmission
Control
18034 P1626 Data-Bus Powertrain Missing Message from Transmission Control
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 Accelerator Pedal Position Sensor 1 Signal too Low
18039 P1631 Accelerator Pedal Position Sensor 1 Signal too High

18040 P1632 Accelerator Pedal Position Sensor 1 Power Supply Malfunction
18041 P1633 Accelerator Pedal Position Sensor 2 Signal too Low
18042 P1634 Accelerator Pedal Position 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 Accelerator Pedal Position Sensor 1+2 Range/Performance
18048 P1640 Internal Control 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
18052 P1644 Please check DTC Memory of clutch ECU
18053 P1645 Data Bus Powertrain missing message f. all wheel drive control
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 Circuit Electrical Malfunction
18085 P1677 Drive by Wire-MIL Circuit Short to B+
18086 P1678 Drive by Wire-MIL Circuit Short to Ground
18087 P1679 Drive by Wire-MIL Circuit Open
18089 P1681 Control Unit Programming, Programming not Finished
18092 P1684 Control Unit Programming Communication Error
18094 P1686 Control Unit Error Programming Error
18098 P1690 Malfunction Indication Light Malfunction
18099 P1691 Malfunction Indication Light Open
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
 P1698 Engine torque control cut signal circuit low input
 P1699 Engine torque control cut signal circuit high input
 P1700 Throttle position sensor circuit malfunction for automatic transmission
 P1701 Cruise control set signal circuit malfunction for automatic transmission
 P1703 Low clutch timing control solenoid valve circuit malfunction

18112 P1704 Kick Down Switch Malfunction

18113 P1705 Gear/Ratio Monitoring Adaptation limit reached

18119 P1711 Wheel Speed Signal 1 Range/Performance
 Engine torque control signal 1 circuit malfunction
 P1712 Engine torque control signal 2 circuit malfunction

18124 P1716 Wheel Speed Signal 2 Range/Performance

18129 P1721 Wheel Speed Signal 3 Range/Performance

18131 P1723 Starter Interlock Circuit Open

18132 P1724 Starter Interlock Circuit Short to Ground

18134 P1726 Wheel Speed Signal 4 Range/Performance

18136 P1728 Different Wheel Speed Signals Range/Performance

18137 P1729 Starter Interlock Circuit Short to B+

18141 P1733 Tiptronic Switch Down Circuit Short to Ground

18147 P1739 Tiptronic Switch up Circuit 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 Circuit Short to Ground

18153 P1745 Transmission Control Unit Relay Short to B+

18154 P1746 Transmission Control Unit Relay Malfunction

18155 P1747 Transmission Control Unit Relay Open/Short to Ground

18156 P1748 Transmission Control Unit Self-Check

18157 P1749 Transmission Control 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
18185 P1777 Hydraulic Pressure Sensor 2 range/performance
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 Circuit Open
18195 P1787 Reversing Light Circuit Short to Ground
18196 P1788 Reversing Light Circuit Short to B+
18197 P1789 Idle Speed Intervention Circuit Error Message from Engine Control
18198 P1790 Transmission Range Display Circuit Open
18199 P1791 Transmission Range Display Circuit Short to Ground
18200 P1792 Transmission Range Display Circuit Short to B+
18201 P1793 Output Speed Sensor 2 Circuit No Signal
18203 P1795 Vehicle Speed Signal Circuit Open
18204 P1796 Vehicle Speed Signal Circuit Short to Ground
18205 P1797 Vehicle Speed Signal Circuit Short to B+
18206 P1798 Output Speed Sensor 2 Circuit Range/Performance
18207 P1799 Output Speed Sensor 2 Circuit Rpm too High
18221 P1813 Pressure Control Solenoid 1 Electrical
18222 P1814 Pressure Control Solenoid 1 Open/Short to Ground
18223 P1815 Pressure Control Solenoid 1 Short to B+
18226 P1818 Pressure Control Solenoid 2 Electrical
18227 P1819 Pressure Control Solenoid 2 Open/Short to Ground

18228 P1820 Pressure Control Solenoid 2 Short to B+

18231 P1823 Pressure Control Solenoid 3 Electrical

18232 P1824 Pressure Control Solenoid 3 Open/Short to Ground

18233 P1825 Pressure Control Solenoid 3 Short to B+

18236 P1828 Pressure Control Solenoid 4 Electrical

18237 P1829 Pressure Control Solenoid 4 Open/Short to Ground

18238 P1830 Pressure Control Solenoid 4 Short to B+

18242 P1834 Pressure Control Solenoid 5 Open/Short to Ground

18243 P1835 Pressure Control 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 Control

18259 P1851 Data-Bus Powertrain Missing Message from Brake Control

18260 P1852 Data-Bus Powertrain Unplausible Message from Engine Control

18261 P1853 Data-Bus Powertrain Unplausible Message from Brake Control

18262 P1854 Data-Bus Powertrain Hardware Defective

18263 P1855 Data-Bus Powertrain Software version Control

18264 P1856 Throttle/Pedal Position Sensor A Circuit Error Message from Engine Control

18265 P1857 Load Signal Error Message from Engine Control

18266 P1858 Engine Speed Input Circuit Error Message from Engine Control

18267 P1859 Brake Switch Circuit Error Message from Engine Control

18268 P1860 Kick Down Switch Error Message from Engine Control

18269 P1861 Throttle Position (TP) sensor Error Message from ECM

18270 P1862 Data Bus Powertrain Missing message from instrument 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