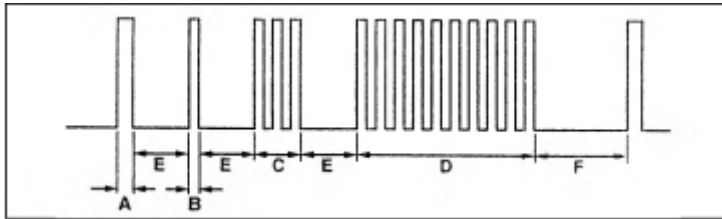


BMW X3 E83 Diagnostic Trouble Codes

Diagnostic trouble codes



1. Make sure the sensor is working properly position of the gas pedal.
 2. Switch on the ignition, the engine is not run.
 3. Wait 3-5 seconds.
 4. Within 5 seconds, perform the following operations:
fully depress the gas pedal;
completely release the gas pedal;
wait 7 seconds;
fully press the gas pedal.
 5. After about 10 seconds malfunction indicator starts blink.
 6. Count the number of flashes of the malfunction indicator.
 7. Determine the fault according to the code table.
 8. Each fault code (fig. 17.116) consists of four groups flashes from one or more:
the first group of flashes indicates "Thousands" of the malfunction code (A);
the second group of flashes means "Hundreds" of the malfunction code (B);
the third group of flashes means "Tens" of the malfunction code (C);
the fourth group of flashes denotes the "ones" of the DTC (D);
ten flashes in a group correspond to the number "0";
a short pause separates each a group of fault codes (E);
a long pause separates the trouble codes (F);
 9. Read all fault codes and fix them (write them down). Switch off ignition
- Figure 17.116 shows an example of a malfunction code "P1130".

EOBD / BMW / Malfunction / Possible causes of malfunction

P1041 10334 Control unit for variable valve timing, bank 1 - EEPROM error

Phase change system control unit gas distribution

P1042 10334 The control unit for the variable valve timing system, bank 1 - RAM error

Phase change system control unit gas distribution

P1043 10334 Control unit for variable valve timing, bank 1 - ROM error

Phase change system control unit gas distribution

P1044 10335 The control unit for the variable valve timing system, bank 2
- EEPROM error

Phase change system control unit gas distribution

P1045 10335 Control unit for variable valve timing, bank 2 - RAM error

Phase change system control unit gas distribution

P1046 10335 The control unit for the variable valve timing system, bank 2 - ROM error

Phase change system control unit gas distribution

P1047 10336 Control circuit of the variable valve timing system, bank 1 - high input
signal

Wiring, connections

P1048 10336 Control circuit of the variable valve timing system, bank 1 - low input
signal

Wiring, connections

P1049 10336 Control circuit of the variable valve timing system, bank 1 - short circuit in
the circuit

Wiring, connections

P1050 10336 Control circuit of the variable valve timing system, bank 1 - electrical
circuit malfunction

Wiring, connections, control box
variable valve timing system

P1051 10337 Control circuit of the variable valve timing system, bank 2 - high input
signal

Wiring , connections

P1052 10337 Control circuit of the variable valve timing system, bank 2 - low input
signal

Wiring, connections

P1053 10337 Control circuit of the variable valve timing system, bank 2 - short circuit in
the circuit

Wiring, connections

P1054 10337 Control circuit of the variable valve timing system, bank 2 - electrical
circuit malfunction

Wiring, connections, control box variable valve timing system

P1055 10338 Control motor of the change system
valve timing, bank 1 - high voltage nutrition Wiring, connections

P1056 10338 Control motor of the change system
valve timing, bank 1 - low voltage nutrition Wiring, connections

P1057 10338 Control motor of the change system
valve timing, bank 1 - circuit malfunction supply voltage

Wiring, connections

P1058 10339 Control motor of the change system
valve timing, bank 2 - high voltage nutrition

Wiring, connections

P1059 10339 Control motor of the change system
valve timing, bank 2 - low voltage nutrition

Wiring, connections

P1060 10339 Control motor change system
valve timing, bank 2 - circuit malfunction supply voltage

Wiring, connections

P1061 10341 Variation in valve timing (VVT), bank 1 - emergency mode (Limp - Home) - electrical circuit malfunction
Wiring, connections, ECM

P1062 10341 Variation in valve timing (VVT), bank 1 - emergency mode (Limp - Home) - extreme positions are not reached
Wiring, connections, ECM

P1063 10341 Variation in valve timing (VVT), bank 1 - emergency mode (Limp - Home) - air flow sensor (MAF), incorrect signal
Wiring, connections, flow sensor air (MAF), ECM

P1064 10342 Variation of valve timing (VVT) - comparison start / home positions - malfunction electrical circuit Wiring, connections

P1065 10227 Variation in valve timing (VVT) - expiration
Standby time (timeout), no signal - fault data bus CAN Wiring, connections

P1066 10227 Variation in valve timing (VVT) - control messages - electrical circuit malfunction Wiring, connections

P1071 10334 The control unit for the variable valve timing system, bank 1 - internal malfunction
Phase change system control unit gas distribution

P1072 10335 The control unit for the variable valve timing system, bank 2 - internal malfunction
Phase change system control unit gas distribution

P1083 202 Heated oxygen sensor 1, bank 1 - range / performance
Wiring, leaks in the intake / exhaust system, low fuel level, fuel pressure, e / m accumulator valve
fuel vapor, injector (s), heated oxygen sensor, ECM

P1084 202 Heated oxygen sensor 1, bank 1 - range / performance
Wiring, leaks in the intake / exhaust system, low fuel level, fuel pressure, e / m accumulator valve
fuel vapor, injector (s), heated oxygen sensor, ECM

P1085 203 Heated oxygen sensor 1, bank 2 - range / performance
Wiring, leaks in the intake / exhaust system, low fuel level, fuel pressure, e / m accumulator valve
fuel vapor, injector (s), heated oxygen sensor, ECM

P1086 203 Heated oxygen sensor 1, bank 2 - range / performance
Wiring, leaks in the intake / exhaust system, low fuel level, fuel pressure, e / m accumulator valve
fuel vapor, injector (s), heated oxygen sensor, ECM

P1087 229 / 10015 Heated Oxygen Sensor 1 Bank 1 - Lean mixture, low speed
Wiring, leaks in the intake / exhaust system, low fuel level, fuel pressure, e / m accumulator valve
fuel vapor, injector (s), heated oxygen sensor, ECM

P1088 229 / 10015 Heated Oxygen Sensor 1, Bank 1 - Rich, Slow Acting
Wiring, leaks in the intake / exhaust system, low fuel level, fuel pressure, e / m accumulator valve
fuel vapor, injector (s), heated oxygen sensor, ECM

P1089 230 / 10021 Heated Oxygen Sensor 1 Bank 2 - Lean mixture, low speed
Wiring, leaks in the intake / exhaust system, low fuel level, fuel pressure, e / m accumulator valve
fuel vapor, injector (s), heated oxygen sensor, ECM

P1094 230 / 10021 Heated Oxygen Sensor 1, Bank 2 - Rich, Slow Acting

Wiring, leaks in the intake / exhaust system, low fuel level, fuel pressure, e / m accumulator valve

fuel vapor, injector (s), heated oxygen sensor, ECM

P1100 57 Air flow sensor (MAF) - high input signal

Wiring, Mass Air Flow (MAF) Sensor, ECM

P1111 11 / 10125 Coolant temperature sensor, outlet radiator hose - malfunction Wiring, connector (s), temperature sensor Coolant, ECM

P1112 11 / 10125 Coolant temperature sensor, outlet radiator hose - malfunction Wiring, connector (s), temperature sensor Coolant, ECM

P1115 10122 Ambient air temperature sensor - electrical circuit malfunction

Wiring, ambient temperature sensor, ECM

P1117 57 Air flow sensor (MAF) / air flow sensor (VAF) Bank 2 - Low Input

Wiring, connector (s), MAF sensor / VAF sensor

P1118 57 Air flow sensor (MAF) / air flow sensor (VAF) Bank 2 - High Input Wiring, connector (s), MAF sensor / VAF sensor

P1120 114 / 10247 Accelerator pedal position sensor - circuit malfunction

Wiring, accelerator pedal position sensor, ECM

P1121 117 / 10248 Accelerator pedal position sensor 1 - circuit malfunction

Wiring, accelerator pedal position sensor, ECM

P1122 110 / 10231 Accelerator pedal position sensor 1 - low input level Wiring short to ground

accelerator pedal position sensor

P1123 110 / 10231 Accelerator Pedal Position Sensor 1 - High input level

Wiring short to "+", accelerator pedal position sensor

P1130 10017 Heated oxygen sensor 2, bank 1 - malfunction during dynamic test

Wiring, heated oxygen sensor, ECM

P1131 10023 Heated oxygen sensor 2, bank 2 - incorrect operation during dynamic test

Wiring, heated oxygen sensor, ECM

P1134 13/25 / 37 Heated oxygen sensor 1, bank 1 - incorrect signal

Wiring, heated oxygen sensor, ECM

R1135 13/25 / 37 Heated Oxygen Sensor 1 Bank 1 - Low voltage

Wiring, heated oxygen sensor, ECM

P1136 13/25 / 37 Heated Oxygen Sensor 1 Bank 1 High Voltage Wiring, heated oxygen sensor, ECM

P1137 14/79 Heated oxygen sensor 2, bank 1 - incorrect signal Wiring, heated oxygen sensor, ECM

P1138 14/79 Heated oxygen sensor 2, bank 1 - low voltage Wiring, heated oxygen sensor, ECM

P1139 14/79 Heated oxygen sensor 2, bank 1 - high voltage Wiring, heated oxygen sensor, ECM

P1140 73 Air flow sensor (MAF) / air flow sensor (VAF) - incorrect signal

Wiring, connector (s), MAF sensor / VAF sensor

P1143 215 Heated oxygen sensor 2, bank 1 - high signal level

Wiring short to +, catalytic converter, high fuel pressure, heated oxygen sensor

P1144 215 Heated oxygen sensor 2, bank 1 - low signal level

Wiring short to ground poor contact, leaking system exhaust, low fuel pressure, heated oxygen sensor

P1149 216 Heated oxygen sensor 2, bank 2 - high signal level

Short-circuit wiring of n and "+", the catalytic converter, the high fuel pressure, heated oxygen sensor

P1150 216 Heated oxygen sensor 2, bank 2 - low signal level Wiring short to ground poor contact, leaking system exhaust, low fuel pressure, heated oxygen sensor

P1151 5/38/55 Heated oxygen sensor 1, bank 2 - incorrect signal Wiring, heated oxygen sensor, ECM

P1152 5/38/55 Heated oxygen sensor 1, bank 2 - low voltage Wiring, heated oxygen sensor, ECM

P1153 5/38/55 Heated oxygen sensor 1, bank 2 - high voltage Wiring, heated oxygen sensor, ECM

P1155 4/61 Heated oxygen sensor 2, bank 2 - incorrect signal Wiring, heated oxygen sensor, ECM

P1156 4/61 Heated oxygen sensor 2, bank 2 - low voltage Wiring, heated oxygen sensor, ECM

P1157 4/61 Heated oxygen sensor 2, bank 2 - high voltage Wiring, heated oxygen sensor, ECM

P1158 28 Fuel balance (FT), bank 1 - range / performance Wiring, connectors, intake / fuel system, injectors, heated oxygen sensor, air flow sensor (MAF), coolant temperature sensor, e / m EVAP canister valve, ECM

P1159 28 Fuel balance (FT), bank 1 - range / performance Wiring, connectors, intake / fuel system, injectors, heated oxygen sensor, air flow sensor (MAF), coolant temperature sensor, e / m EVAP canister valve, ECM

P1160 29 Fuel Balance (FT) Bank 2 - Range / Performance Wiring, connectors, intake / fuel system, injectors, heated oxygen sensor, air flow sensor (MAF), coolant temperature sensor, e / m EVAP canister valve, ECM

P1161 29 Fuel Balance (FT) Bank 2 - Range / Performance Wiring, connectors, intake / fuel system, injectors, heated oxygen sensor, air flow sensor (MAF), coolant temperature sensor, e / m EVAP canister valve, ECM

P1168 15 Fuel balance after catalytic neutralization Topa (FT), bank 1 - range / performance Wiring, connectors, intake / fuel system, injectors, heated oxygen sensor, air flow sensor (MAF), coolant temperature sensor, e / m EVAP canister valve, ECM

P1170 21 Fuel balance after catalytic neutralization Topa (FT), bank 2 - range / performance Wiring, connectors, intake / fuel system, injectors, heated oxygen sensor, air flow sensor (MAF), coolant temperature sensor, e / m EVAP canister valve, ECM

P1171 196 Barometric Pressure Sensor - Adaptive Learning Wiring, Barometric Pressure Sensor, ECM

P1172 196 Barometric Pressure Sensor - Adaptive Learning Wiring, Barometric Pressure Sensor, ECM

P1173 196 Atmospheric pressure sensor - adaptive learning Learning procedure not completed

P1178 216 Heated oxygen sensor 1, bank 1 - slow switching Wiring, heated oxygen sensor, ECM

P1179 217 Heated oxygen sensor 1, bank 2 - slow switching Wiring, heated oxygen sensor, ECM

P1184 218 Heated oxygen sensor 1, bank 1 - no response Wiring, heated oxygen sensor

P1185 219 Heated oxygen sensor 1, bank 2 - no response Wiring, heated oxygen sensor

P1188 174 Mixture ratio sensor 1, bank 1 - range / performance
Wiring, connectors, intake / fuel system, injectors, heated oxygen sensor, air flow sensor (MAF), coolant temperature sensor, e / m EVAP canister valve, ECM

P1189 175 Mixture ratio sensor 1, bank 2 - range / performance
Wiring, connectors, intake / fuel system, injectors, heated oxygen sensor, air flow sensor (MAF), coolant temperature sensor, e / m EVAP canister valve, ECM

P1200 24 Mixture ratio sensor, out of adaptation, bank1 - range / performance
Wiring, connectors, intake / fuel system, injectors, heated oxygen sensor, air flow sensor (MAF), coolant temperature sensor, e / m EVAP canister valve, ECM

P1201 24 Mixture ratio sensor, out of adaptation, bank1 - range / performance
Wiring, connectors, intake / fuel system, injectors, heated oxygen sensor, air flow sensor (MAF), coolant temperature sensor, e / m EVAP canister valve, ECM

P1202 25 Mixture ratio sensor, out of adaptation, bank2 - range / performance
Wiring, connectors, intake / fuel system, injectors, heated oxygen sensor, air flow sensor (MAF), coolant temperature sensor, e / m EVAP canister valve, ECM

P1203 25 Mixture ratio sensor, out of adaptation, bank2 - range / performance
Wiring, connectors, intake / fuel system, injectors, heated oxygen sensor, air flow sensor (MAF), coolant temperature sensor, e / m EVAP canister valve, ECM

P1204 10277 Heated oxygen sensor 2, bank 1 - electrical circuit malfunction
Wiring, heated oxygen sensor

P1205 10278 Heated oxygen sensor 2, bank 2 - electrical circuit malfunction
Wiring, heated oxygen sensor

P1222 111 / 10232 Accelerator pedal position sensor, channel 2 - low input Wiring short to ground accelerator pedal position sensor

P1223 111 / 10232 Accelerator pedal position sensor, channel 2 - high input
Wiring short to "+", accelerator pedal position sensor

P1247 10461 Atmospheric pressure - incorrect signal Wiring, ECM

P1314 202/203 Fuel balance (FT) - deviates at low fuel level
Wiring, low fuel level, fuel pressure, system leak intake / exhaust, injector (s), heated oxygen sensor, e / 'm fuel vapor accumulator valve, coolant temperature sensor, ECM

P1314 227/228 Fuel balance (FT) - deviates at low fuel level Wiring, low fuel level, fuel pressure, system leak
intake / exhaust, injector (s), heated oxygen sensor, e / m fuel vapor accumulator valve, coolant temperature sensor, ECM

P1315 10086 Camshaft Position Sensor A, Bank 1 - incorrect signal Wiring, camshaft position sensor, ECM

P1316 10086 Camshaft Position Sensor A, Bank 1 - incorrect signal Wiring, camshaft position sensor, ECM

P1317 15 Drive of the variable valve timing system (VVT) V - range / performance
Wiring, variable valve timing actuator

P1318 10087 Camshaft Position Sensor B, Bank 1 - incorrect signal
Wiring, camshaft position sensor, ECM

P1319 10087 Camshaft Position Sensor B, Bank 1 - incorrect signal
Wiring, camshaft position sensor, ECM

P1326 10422 Camshaft Position Sensor A, Bank 1 - reference sync signal, out of range
Wiring, camshaft position sensor, ECM

P1327 59/211 / 10211 Knock Sensor 2 Bank 1 - Input Low signal
Wiring, knock sensor incorrectly attached, knock sensor

P1328 211 / 10211 Knock Sensor 2 Bank 1 - Input High signal
Wiring, knock sensor incorrectly attached, knock sensor

P1329 10212 Knock sensor 3 - low input signal Wiring, incorrect mounting of the knock sensor, knock sensor

P1330 10212 Knock sensor 3 - high input signal Wiring, incorrect mounting of the knock sensor, knock sensor

P1331 10424 Camshaft position sensor B, bank 1 - reference sync signal, out of range
Wiring, camshaft position sensor, ECM

P1332 213 / 10213 Knock sensor 4 - low input signal Wiring, knock sensor improper mounting, knock sensor

P1333 213 / 10213 Knock sensor 4 - high input level Wiring, knock sensor improper mounting, knock sensor

P1338 10088 Camshaft Position Sensor A, Bank 1 - incorrect positioning
Wiring, camshaft position sensor, ECM

P1339 10092 Camshaft Position Sensor B, Bank 1 - incorrect positioning
Wiring, camshaft position sensor, ECM

P1340 62/213 Multiple misfires on start-up Wiring, low fuel level, ignition system / fuel system, injector ^), spark plugs, ignition coil (s), mechanical failure

P1341 62/204 Multiple misfiring during cut-off fuel supply Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1342 50/205 Misfire after start - cylinder 1 Wiring, low fuel level, ignition system / fuel system, injector, spark plug, ignition coil, mechanical failure

P1342 238 / 10,050 Misfire After Start - Cylinder 1 Wiring, Low Fuel Level, Ignition System / Fuel System, Injector, Spark Plug, Ignition Coil, mechanical failure

P1343 50/196 Misfire at fuel cut-off - cylinder 1 Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1343 238 / 10,050 Fuel misfire misfire - cylinder 1 Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1344 57/206 Misfire after start - cylinder 2 Wiring, low fuel level, ignition system / fuel system, injector, spark plug, ignition coil, mechanical failure

P1344 239 / 10054 Misfire after start - cylinder 2 Wiring, low fuel level, ignition / fuel system, injector, spark plug, ignition coil, mechanical failure

P1345 57/197 Misfire during fuel cut-off - cylinder 2 Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1345 239 / 10054 Fuel misfire misfire - cylinder 2 Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1346 55/207 Misfire after start - cylinder 3 Wiring, low fuel level, ignition system / fuel system, injector, spark plug, ignition coil, mechanical failure

P1346 240 / 10052 Misfire after Start - Cylinder 3 Wiring, Low Fuel Level, Ignition System / Fuel System, Injector, Spark Plug, Ignition Coil, mechanical failure

P1347 55/198 Misfire during fuel cut-off - cylinder 3
Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1347 240 / 10052 Fuel misfire misfire - cylinder 3

Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1348 52/208 Misfire after start - cylinder 4 Wiring, low fuel level, ignition system / fuel system, injector, spark plug, ignition coil, mechanical failure

P1348 241 / 10055 Misfire After Start - Cylinder 4 Wiring, Low Fuel Level, Ignition System / Fuel System, Injector, Spark Plug, Ignition Coil, mechanical failure

P1349 52/199 Misfire during fuel cut-off - cylinder 4 Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1349 241 / 10055 Fuel misfire misfire - cylinder 4

Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1350 51/209 Misfire after start - cylinder 5 Wiring, low fuel level, ignition system / fuel system, injector, spark plug, ignition coil, mechanical failure

P1350 242 / 10051 Misfire after Start - Cylinder 5 Wiring, Low Fuel Level, Ignition System / Fuel System, Injector, Spark Plug, Ignition Coil, mechanical failure

P1351 51/200 Misfire with fuel cut-off - cylinder 5

Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1351 242 / 10051 Fuel misfire misfire - cylinder 5

Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1352 54/210 Misfire after start - cylinder 6 Wiring, low fuel level, ignition system / fuel system, injector, spark plug, ignition coil, mechanical failure

P1352 243 / 10053 Misfire After Start - Cylinder 6 Wiring, Low Fuel Level, Ignition System / Fuel System, Injector, Spark Plug, Ignition Coil, mechanical failure

P1353 54/201 Misfire during fuel cut-off - cylinder 6 Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1353 243 / 10053 Fuel misfire misfire - cylinder 6

Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1354 56/211 Misfire after start - cylinder 7 Wiring, low fuel level, ignition system / fuel system, injector, spark plug, ignition coil, mechanical failure

P1355 56/202 Misfire when cutting off the fuel supply - cylinder 7

Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1356 53/212 Misfire after start - cylinder 8 Wiring, low fuel level, ignition system / fuel system, injector, spark plug, ignition coil, mechanical failure

P1357 53/203 Misfire during fuel cut-off - cylinder 8

Wiring, Low Fuel Level, Ignition / Fuel System, Intake System Leaky , Mechanical malfunction

P1378 10238 Self-test of the electronic control unit engine - bank 2, detonation control system malfunction

Wiring, knock sensor, ECM

P1379 10239 Self-test of the electronic control unit

engine - bank 2, detonation control system malfunction Wiring, knock sensor, ECM

P1380 10217 Self-test of the electronic control unit

engine - bank 2, detonation control system malfunction Wiring, knock sensor, ECM

P1381 215 / 10215 Self-test of the electronic control unit

engine - bank 1, detonation control system malfunction Wiring, knock sensor, ECM

P1382 216 / 10216 Self-test of the electronic control unit engine - bank 1, detonation control system malfunction Wiring, knock sensor, ECM

P1386 10214 Self-test of the electronic control unit engine - bank 1, detonation control system malfunction Wiring, knock sensor, ECM

P140A 10080 / 10081 Exhaust Air System Bank 1 & 2 - Insufficient Recirculation Hose (s) connection , delivery valve air outlet, air pump for release

P140B 10080 Exhaust air supply system, banks 1 and 2 - insufficient recirculation Hose (s) connection , delivery valve air outlet, air pump for release

P140C 10081 Exhaust air supply system, bank 1 and 2 - insufficient level of recirculation Hose (s) connection , delivery valve air outlet, air pump for release

R1413 35/84 / 10084 Exhaust Air Pump Relay - Low Wiring, connector, feed pump relay air outlet

R1414 35/84 / 10084 Exhaust air pump relay - high signal Wiring, connector, feed pump relay air outlet

P1415 10080 Air flow sensor (M AF) / air flow sensor (VAF) - circuit malfunction Wiring, connector (s), air flow sensor (M AF) / air flow sensor (VAF)

P1429 10201 Fuel tank leak diagnostic unit - heater Wiring, fuel tank leak diagnostic unit

P1430 10201 Fuel tank leak diagnostic unit - heater low output signal Wiring, fuel tank leak diagnostic unit

P1431 10201 Fuel tank leak diagnostic unit - high heater output level Wiring, fuel tank leak diagnostic unit

P1432 171 Exhaust air supply system - incorrect consumption Hose (s) connection , delivery valve air outlet, air pump for release

P1434 10189 Fuel tank leak diagnostic unit Wiring, fuel tank leak diagnostic unit

P1444 10186 Fuel tank leak diagnostic unit - open circuit of the pump control Wiring, fuel tank leak diagnostic unit

P1445 10186 Fuel tank leak diagnostic unit - low pump control signal level Wiring, fuel tank leak diagnostic unit

P1446 10186 Fuel tank leak diagnostic unit - high pump control signal level Wiring, fuel tank leak diagnostic unit

P1447 10189 Fuel tank leak diagnostic unit - too high pump amperage when checking Wiring, diagnostic unit

P1448 10189 Fuel tank leak diagnostic unit - too low pump amperage Wiring, fuel tank leak diagnostic unit

P1449 10189 / 10775 Fuel tank leak diagnostic unit - too high pump amperage Wiring, fuel tank leak diagnostic unit

P1449 10002 Block for diagnostics of leaks in the fuel tank - open circuit of the e / m valve control Wiring, fuel tank leak diagnostic unit

P1451 10002 Fuel tank leak diagnostic unit - low e / m valve control signal level Wiring, fuel tank leak diagnostic unit

P1452 10002 Fuel tank leak diagnostic unit - high e / m valve control signal level Wiring, fuel tank leak diagnostic unit

P1453 10084 Exhaust air supply system - electrical fault Wiring, connectors, feed pump relay air outlet, air pump for release

P1500 211 Idling speed control drive - the drive is stuck in the open position Idling speed control drive

P1501 211 Idle speed control drive the actuator is stuck in the closed position

Idling speed control drive

P1502 2/27 / 10198 Idling speed control drive, closing control winding - high signal level

Wiring, connector (s), control actuator idle speed, ECM

P1503 2/27 / 10198 Idling speed control actuator, closing control coil - low signal

Wiring, connector (s), control actuator idle speed, ECM

P1504 2/27 / 10198 Idling speed control drive, closing control winding - open circuit

Wiring, connector (s), control actuator idle speed, ECM

P1506 29/53 / 10199

Idle speed control drive, opening control winding - high signal level

Wiring, connector (s), control actuator idle speed, ECM

P1507 29/53 / 10199

Idle Speed Control Actuator, Opening Control Coil - Low signal

Wiring, connector (s), control actuator idle speed, ECM

P1508 29/53 / 10199

Idling speed control drive, opening control winding - open circuit

Wiring, connector (s), control actuator idle speed, ECM

P1509 29 Idling speed control drive malfunction when opening

Wiring, frequency control drive idle rotation

P1510 10461 Idling speed control drive the drive is stuck Wiring, mechanical failure

P1511 10270 Intake manifold geometry change system - electrical fault Wiring, ECM

P1512 124 /10270 Intake manifold change system -low signal level Wiring, ECM

P1513 124 /10270 Intake manifold change system -high signal level Wiring, ECM

P1523 21/165 Drive of the variable valve timing system (VVT) A, bank 1 - low signal level

Wiring, variable valve timing actuator

P1524 21/165 Drive of the variable valve timing system (VVT) A, bank 1 - high signal level

Wiring, variable valve timing actuator

P1525 21/67 /72 Variable valve timing system drive (VVT) A, bank 1 - open circuit

Wiring, variable valve timing actuator

P1525 165 / 10165 Variable valve timing system drive

(VVT) A, bank 1 - open circuit Wiring, variable valve timing actuator

P1526 74/75 / 166 Variable valve timing system drive

(VVT) A, bank 2 - open circuit Wiring, variable valve timing actuator

P1527 166 Drive of the variable valve timing system (VVT) A, bank 2 - low signal level

Wiring, variable valve timing actuator

P1528 166 Drive of the variable valve timing system (VVT) A, bank 2 - high signal level

Wiring, variable valve timing actuator

P1529 19 Drive of the variable valve timing system (VVT) B, bank 1 - low signal level

Wiring, variable valve timing actuator

P1530 19 Drive of the variable valve timing system (VVT) B, bank 1 - high signal level

Wiring, variable valve timing actuator

P1531 2 1/2 2 Drive of the variable valve timing system (VVT) B, bank 1 - open circuit

Wiring, variable valve timing actuator

P1531 19 / 10173 Variable valve timing system drive

(VVT) B, bank 1 - open circuit Wiring, variable valve timing actuator

P1532 83/84 Drive of the variable valve timing system (VVT) B, bank 2 - open circuit

Wiring, variable valve timing actuator

P1550 2 Idling speed control drive malfunction when closing

Wiring, frequency control drive idle rotation

P1552 67 Drive of the variable valve timing system

(VVT) A, bank 1 - open circuit Wiring, variable valve timing actuator

P1556 72 Air conditioning compressor - low signal Wiring

P1560 22 Drive of the variable valve timing system

(VVT) B, bank 1 - open circuit Wiring, variable valve timing actuator

P1565 21 Multifunction steering wheel control communication error

Wiring, buttons "+" and pressed simultaneously

P1569 74 Drive of the variable valve timing system (VVT) A bank 2 - open circuit

Wiring, variable valve timing actuator

P1573 75 Drive of the variable valve timing system

(VVT) A bank 2 - low signal level Wiring, variable valve timing actuator

P1581 83 Drive of the variable valve timing system

(VVT) B, bank 2 - open circuit Wiring, variable valve timing actuator

P1585 149 Random / multiple cylinder (s) - skip ignition

Low fuel level, ignition / fuel system, injector (s), intake leaks, mechanical failure

P1594 84 Drive of the variable valve timing system

(VVT) B, bank 2 - open circuit Wiring, variable valve timing actuator

P16A0 10288 ECM - internal malfunction, control error sums ECM

P16A1 10288 ECM - internal malfunction, control error sums ECM

P16A2 10288 ECM - internal malfunction, control error sums ECM

P16AZ 10345 ECM - internal malfunction, ECM memory error

P16A4 10346 ECM - internal malfunction, ECM knock sensor bus

P16A5 10347 ECM - internal malfunction, bus of the ECM output stage

P16A6 10401 Self-test of the electronic control unit

engine - monitoring the speed control system Wiring, ECM

P16A7 10402 Self-test of the electronic control unit engine - air flow sensor monitoring (MAF)

Wiring, Mass Air Flow (MAF) Sensor, ECM

P16A8 10402 Self-test of the electronic control unit

engine - throttle position monitoring Wiring, throttle position sensor dampers, ECM

P16A9 10404 Self-test of the electronic control unit engine - malfunction Wiring, ECM

P16B0 10405 Self-test of the electronic control unit motor - pedal position monitoring

Wiring, accelerator pedal position sensor, ECM

P16B1 10410 Self-test of the electronic control unit engine - air bypass control system

idling - malfunction Wiring, bypass control system idle air, ECM

P16B2 10410 Self-test of the electronic control unit engine - air bypass control system idling - malfunction

Wiring, bypass control system idle air, ECM

P16B3 10411 Self-test of the electronic control unit motor - torque control Wiring, ECM

P16B4 10411 Self-test of the electronic control unit

engine - distance monitoring (speed control system) Wiring, ECM

P16B5 10411 Self-test of the electronic control unit

engine - sequential manual transmission monitoring Wiring, ECM

P16B6 10411 Self-test of the electronic control unit

engine - monitoring the traction control system Wiring, ECM

P16B7 10412 Self-test of the electronic control unit

engine - monitoring the torque converter clutch Wiring, ECM

P16B8 10412 Self-test of the electronic control unit

engine - monitoring the torque converter clutch Wiring, ECM

P16B9 10412 Self-test of the electronic control unit motor - torque loss monitoring
Wiring, ECM

P16C0 10412 Self-test of the electronic control unit
engine - monitoring of the stability control system Wiring, ECM

P16C1 10413 Self-test of the electronic control unit motor - torque control Wiring, ECM

P16C2 10417 Self-test of the electronic control unit engine - speed limit control Wiring,
ECM

R16SZ 10418 Self-test of the electronic control unit
engine - limiting the speed of the crankshaft Wiring, ECM

P1602 48/122 / 231 Self-test of the electronic control unit engine - malfunction ECM

P1603 49 Self-test of the electronic control unit motor - torque control Wiring, ECM

P1604 50/51 Self-test of the electronic control unit engine - crankshaft speed
monitoring Wiring, ECM

P1611 129 /10220 /10505 Electronic control unit for automatic transmission -
malfunction
connections Wiring, TCM, ECM

P1618 10103 Self-test of the electronic control unit motor - ADC monitoring Wiring,
ECM

P1619 123 / 10140
Cooling System Thermostat Control Circuit - low signal level Wiring, coolant thermostat

P1620 123 / 10140
Cooling System Thermostat Control Circuit - high signal level Wiring, coolant thermostat

P1622 10140 Cooling system thermostat control circuit - electrical circuit malfunction
Wiring, coolant thermostat

R1624 146 / 10048 Accelerator pedal position sensor 1 - circuit malfunction
Wiring, accelerator pedal position sensor, ECM

P1625 147 / 10049 Accelerator pedal position sensor 2 - circuit malfunction
Wiring, accelerator pedal position sensor, ECM

P1628 10089 Electric throttle actuator - error checking the return spring, bank 1
Wiring, electric throttle, ECM

P1629 10089 Electric throttle actuator - error checking the return spring, bank 1
Wiring, electric throttle, ECM

P1631 10133 Electric throttle actuator - error checking the return spring, bank 1
Wiring, electric throttle, ECM

P1632 115 / 10134 Throttle valve - unable to adapt Wiring, adapting throttle valve,
motor position sensor
throttle actuator, ECM

P1633 115 / 10134 Throttle Adaptation - Incorrect Emergency Mode Position (Limp-
Home)
Wiring, throttle adaptation, motor position sensor throttle actuator, ECM

P1634 115 / 135/136 Throttle Adaptation - Spring Return Test Failed Bank 1
Wiring, mechanical failure, ECM

P1634 10133 / 10134 / 10145 Throttle Adaptation - Spring Return Test Failed Bank 1
Wiring, mechanical failure, ECM

P1635 115 / 10134 / 10419 Throttle Adaptation - Not Adjusted limiter
Wiring, throttle adaptation, motor position sensor throttle actuator, ECM

P1636 109/132 / 10132 Throttle control circuit, bank 1 - circuit malfunction
Wiring, TPM sensor, ECM

P1637 130/162 Throttle position control - control deviation, bank 1 Wiring, TPM sensor,
ECM

P1637 10066 / 10130 Throttle Position Control - Control Deviation Bank 1
Wiring, TPM sensor, ECM

P1638 131/160 Throttle position control - temporary stuck throttle, Bank 1
Wiring, mechanical failure, ECM

P1638 10064 / 10131 Throttle Position Control - Temporary Sticky Throttle Bank 1
Wiring, mechanical failure, ECM

P1639 131/161 Throttle Position Control - Constant Sticking Throttle, Bank 1
Wiring, mechanical failure, ECM

P1639 10065 / 10131 Throttle Position Control - Constant Sticking Throttle Bank 1
Wiring, mechanical failure, ECM

P1640 155/156 Electronic engine control unit - error RAM / ROM ECM

P1653 134 Torque (transmission) - incorrect signal Wiring, TCM

P1654 signal **134** data bus CAN - timeout (timeout) Wiring, ECM

P1663 155/156 Electronic immobilizer control unit - incorrect coding
Invalid / damaged key

P1670 134 Intervention of the transmission control system - invalid signal Wiring, TCM

P1675 135 / 10149 Electric throttle actuator, initial check - need for adaptation
Adaptation of electric throttle actuator flaps

P1694 136 / 10145 Electric Throttle Actuator Initial Check - Spring Return and Position
Check
emergency mode completed unsuccessfully Wiring, mechanical failure, ECM

P3010 10486 Heated oxygen sensor 2, bank 1 - low input level after cold start
Heated Oxygen Wiring sensor, ECM

P3011 10487 Heated oxygen sensor 2, bank 2 - low input level after cold start
Heated Oxygen Wiring sensor, ECM

P3012 10308 Heated oxygen sensor 1, bank 1 - adaptation value too high
Heated Oxygen Wiring sensor, ECM

P3013 10291 Heated oxygen sensor 1, bank 2 - adaptation value too high
Heated Oxygen Wiring sensor, ECM

P3014 10308 Heated oxygen sensor 1, bank 1 - incorrect voltage
Heated Oxygen Wiring sensor, ECM

P3015 10291 Heated oxygen sensor 1, bank 2 - incorrect voltage
Heated Oxygen Wiring sensor, ECM

P3016 10013 Heated oxygen sensor 1, bank 1 - error calibration
Heated Oxygen Wiring sensor, ECM

P3017 10005 Heated oxygen sensor 1, bank 2 - error calibration
Heated Oxygen Wiring sensor, ECM

P3018 10313 Heated oxygen sensor 1, bank 1 - malfunction of the mixture control
system
Heated Oxygen Wiring sensor

P3019 10292 Heated oxygen sensor 1, bank 2 - malfunction of the mixture control
system
Heated Oxygen Wiring sensor

P3020 10313 Heated oxygen sensor 1, bank 1 - incorrect signal voltage
Heated Oxygen Wiring sensor

P3021 10292 Heated oxygen sensor 1, bank 2 - incorrect signal voltage
Heated Oxygen Wiring sensor

P3022 10308 Heated oxygen sensor 1, bank 1 - communication failure
Heated Oxygen Wiring sensor

P3023 10291 Heated oxygen sensor 1, bank 2 - communication failure

Heated Oxygen Wiring sensor

P3024 10308 Heated oxygen sensor 1, bank 1 - fatal initialization error

Heated Oxygen Wiring sensor

P3025 10291 Heated oxygen sensor 1, bank 2 - fatal initialization error

Heated Oxygen Wiring sensor

P3026 10013 Heated oxygen sensor 1, bank 1 - incorrect operating temperature

Heated Oxygen Wiring sensor, ECM

P3027 10005 Heated oxygen sensor 1, bank 2 - incorrect operating temperature

Heated Oxygen Wiring sensor, ECM

P3028 10013 Heated oxygen sensor 1, bank 1 - no response

Heated Oxygen Wiring sensor, ECM

P3029 10005 Heated oxygen sensor 1, bank 2 - no response

Heated Oxygen Wiring sensor, ECM

P3040 10480 Heated oxygen sensor 2, bank 1 - lean / rich control

Heated Oxygen Wiring sensor, ECM

P3041 10481 Heated oxygen sensor 2, bank 2 - lean / rich control

Heated Oxygen Wiring sensor, ECM

P3198 10205 Coolant temperature - malfunction Wiring, coolant temperature sensor, ECM

P3199 10207 Coolant temperature - the signal does not change

Wiring, coolant temperature sensor, ECM

P320D 10621 CAN data bus monitor - timed out

Answer traction system Wiring connected control units

P3200 52615 Electronic control unit for automatic transmission, data bus

CAN - internal fault themes

P3201 52615 Electronic control unit for automatic transmission, data bus

CAN - internal fault themes

P3202 52615 Electronic control unit for automatic transmission, data bus

CAN - internal fault themes

P3203 52619 CAN data bus - malfunction Wiring, connected control units

P3204 52619 CAN data bus - malfunction Wiring, connected control units

P3205 52619 CAN data bus - malfunction Wiring, connected control units

P3213 10505 / 10621 Monitoring data bus CAN - self test error traction system

Wiring connected control units

P3214 10505 Monitoring data bus CAN - self test error traction system

Wiring connected control units

P3238 10289 Self-test of the electronic control unit

engine - clock generator malfunction Wiring, TPU, ECM