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Error codes KIA Carens

Special OEM

B00xx

C00xx

P00xx

P01xx - P02xx

P03xx

P04xx

P05xx

P06xx

P07xx - P09xx

P0Axx - P0Cxx, P20xx - P34xx

U0xxx - U3xxx

1 - 98, 1A - 9A

Special OEM codes

CODE	DECRYPTION
P1000	OBD Systems Readiness Test Not Complete
P1104	Mass Air Flow Sensor Circuit Ground
P1111	System Pass
P1115	Engine Coolant Temperature Signal from ECM to TCM.
P1121	Throttle Position Sensor Signal Malfunction from ECM to TCM.

P1122 Pedal Position Sensor A Circuit Low input

P1123 Pedal Position Sensor A Circuit High Input

P1136 Control Box Fan Circuit

P1137 Lack Of HO2S12 Switches - Sensor Indicates Lean

P1138 Lack Of HO2S12 Switches - Sensor Indicates Rich

P1143 Air Assisted Injector Control Valve Range/Performance

P1144 Air Assisted Injector Control Valve Circuit

P1157 Lack Of HO2S22 Switches - Sensor Indicates Lean

P1158 Lack Of HO2S22 Switches - Sensor Indicates Rich

P1170 Front Heated Oxygen Sensor Stuck.

P1171 System Too Lean - Banks 1 and 2 (Lean Fuel Fault)

P1172 System Too Rich - Banks 1 and 2 (Rich Fuel Fault)

P1174 System Too Lean - Banks 1 and 2 (Suspect HO2S)

P1175 System Too Rich - Banks 1 and 2 (Suspect HO2S)

P1176 Long Term Fuel Trim Too Lean - Banks 1 and 2 (FMFR)

P1748 Pressure Regulator 5

P1758 Pressure Solenoid Control System Incorrect Current

P1775 Transmission System MIL Fault

P1776 Ignition Retard Request Duration

P1777 Ignition Retard Request Circuit

P1778 Transmission Reverse I/P Circuit

P1779 Load Control

P1789 Ignition Supply Malfunction

P1790 Ignition Supply Malfunction

P1791 Ignition Supply Malfunction

P1792 Ignition Supply Malfunction

P1793 Ignition Supply Malfunction

P1794 Battery or Circuit Failure.

P1795 4WD Switch Signal Malfunction.

P1796 CAN Controller Circuit (Bus off)

P1797 P or N Range Signal or Clutch Pedal Position Switch Open or Short.

P1798 CAN TCM/INST Circuit Malfunction

P1799 CAN TCM/ABS Circuit Malfunction

P1882 Engine Coolant Level Switch Circuit Short To Ground

P1177 Long Term Fuel Trim Too Rich - Banks 1 and 2 (FMFR)

P1178 Long Term Fuel Trim Too Lean - Banks 1 and 2 (AMFR)

P1179 Long Term Fuel Trim Too Rich - Banks 1 and 2 (AMFR)

P1185 02 Sensor Heater Circuit Open - Hardware Fault

P1186 02 Sensor Heater Circuit Shorted - Hardware Fault

P1187 02 Sensor Heater Circuit Open - Inferred Fault

P1188 02 Sensor Heater Circuit Resistance

P1189 02 Sensor Heater Circuit Low Resistance Fault 1

P1190 02 Sensor Heater Circuit Low Resistance Fault 2

P1191 02 Sensor Heater Circuit Open - Hardware Fault

P1192 02 Sensor Heater Circuit Shorted

P1193 02 Sensor Heater Circuit Open - Inferred Fault

P1194 02 Sensor Heater Circuit Resistance Fault

P1195 EGR Pressure Sensor (1.6L) or Boost Sensor (1.8L) Open or Short.

P1196 Ignition Switch Start Open or Short (1.6L).

P1198 Fuel Level Input Circuit High

P1199 Fuel Level Input Circuit Low

P1201 Cylinder #1 Injector Circuit Open/Short

P1202 Cylinder #2 Injector Circuit Open/Short

P1203 Cylinder #3 Injector Circuit Open/Short

P1204 Cylinder #4 Injector Circuit Open/Short

P1205 Cylinder #5 Injector Circuit Open/Short

P1206 Cylinder #6 Injector Circuit Open/Short

P1207 Cylinder #7 Injector Circuit Open/Short

P1208 Cylinder #8 Injector Circuit Open/Short

P1221 Pedal Demand Sensor B Circuit Range/Performance

P1224 Electronic Throttle Control Position Error

P1226 Mechanical Guard Circuit Range/Performance

P1227 Mechanical Guard Circuit Low Input

P1228 Mechanical Guard Circuit High Input

P1229 Electronic Throttle Control Circuit

P1230 Fuel Pump Relay

P1235 VSV 1/2/3 Circuit Range/Performance

P1236 VSV 1 Circuit

P1237 VSV 2 Circuit

P1238 VSV 3 Circuit

P1240 Sensor Power Supply

P1241 Sensor Power Supply Low Input

P1242 Sensor Power Supply High Input

P1243 Analog Ground

P1245 Crank Signal Low Input

P1246 Crank Signal High Input

P1250 Pressure Regulator Control Solenoid Valve Open or Short.

P1251 Throttle Position

P1252 Pressure Regulator Control Solenoid Valve No. 2 Circuit Malfunction.

P1253 VSV Stuck on VR

P1260 Theft Detected,Vehicle Immobilized

P1307 Chassis Acceleration Sensor Signal Malfunction.

P1308 Chassis Acceleration Sensor Signal Low.

P1309 Chassis Acceleration Sensor Signal High.

P1313 Misfire Rate Catalyst Damage Fault - Bank 1

P1314 Misfire Rate Catalyst Damage Fault - Bank 2

P1315 Persistent Misfire

P1316 Misfire Rate Exceeds Emissions

P1336 Crankshaft/Camshaft Sensor Range/Performance

P1340 Camshaft Position Sensor B Circuit

P1341 Camshaft Position Sensor B Circuit Range/Performance

P1345 No SGC Signal (1.6L).

P1361 Ignition Coil, Cylinder #1, No Activation

P1362 Ignition Coil, Cylinder #2, No Activation

P1363 Ignition Coil, Cylinder #3, No Activation

P1364 Ignition Coil, Cylinder #4, No Activation

P1365 Ignition Coil, Cylinder #5, No Activation

P1366 Ignition Coil, Cylinder #6, No Activation

P1367 Ignition System Failure Group 1

P1368 Ignition System Failure Group 2

P1370 Insufficient RPM Increase During Spark Test

P1371 Ignition Coil - Cylinder 1 - Early Activation Fault

P1372 Ignition Coil - Cylinder 2 - Early Activation Fault

P1373 Ignition Coil - Cylinder 3 - Early Activation Fault

P1374 Ignition Coil - Cylinder 4 - Early Activation Fault

P1375 Ignition Coil - Cylinder 5 - Early Activation Fault

P1376 Ignition Coil - Cylinder 6 - Early Activation Fault

P1384 Variable Valve Timing Solenoid A Circuit

P1386 Knock Sensor Control Zero Test.

P1392 Variable Valve Timing Solenoid A Circuit Low Input

P1393 Variable Valve Timing Solenoid A Circuit High Input

P1396 Variable Valve Timing Solenoid B Circuit

P1397 Variable Valve Timing Solenoid B Circuit Low Input

P1398 Variable Valve Timing Solenoid B Circuit High Input

P1400 Exhaust Gas Recirculation Valve Position Control

P1401 Exhaust Gas Recirculation Valve Position Circ

P1402 EGR Valve Position Sensor Open or Short.

P1408 Exhaust Gas Recirculation Thermister

P1409 Exhaust Gas Recirculation Valve Circuit

P1440 Purge Valve Stuck Open

P1441 ELC System 1

P1447 ELC System Closure Valve Flow

P1448 ELC System System 2

P1449 Canister Drain Cut Valve Open or Short (1.8L).

P1450 Excessive Vacuum Leak.

P1453 Fuel Tank Pressure Relief Valve Malfunction

P1454 Evaporative Emission Control System Vacuum Test

P1455 Fuel Tank Sending Unit Open or Short (1.8L).

P1457 Purge Solenoid Valve Low System Malfunction.

P1458 A/C Compressor Control Signal Malfunction.

P1475 Fan Relay (Low) Circuit

P1476 Fan Relay (High) Circuit

P1485 EGR Solenoid Valve Vacuum Open or Short.

P1486 EGR Solenoid Valve Vent Open or Short.

P1487 EGR Boost Sensor Solenoid Valve Open or Short.

P1496 EGR Stepper Motor Malfunction - Circuit 1 (1.8L).

P1497 EGR Stepper Motor Malfunction - Circuit 2 (1.8L).

P1498 EGR Stepper Motor Malfunction - Circuit 3 (1.8L).

P1499 EGR Stepper Motor Malfunction - Circuit 4 (1.8L).

P1500 No Vehicle Speed Signal to TCM.

P1505 Idle Air Control Valve Opening Coil Voltage Low.

P1506 Idle Air Control Valve Opening Coil Voltage High.

P1507 Idle Air Control Valve Closing Coil Voltage Low.

P1508 Idle Air Control Valve Closing Coil Voltage High.

P1509 Idle Air Control Circuit Shorted

P1514 High Load Neutral/Drive Fault

P1516 Gear Change Neutral/Drive Fault

P1517 Cranking Neutral/Drive Fault

P1523 VICS Solenoid Valve.

P1534 Restraint Deployment Indicator Circuit

P1565 Speed Control Command Switch Out Of Range High

P1566 Speed Control Command Switch Out Of Range Low

P1567 Speed Control Output Circuit

P1568 Speed Control Unable to Hold Speed

P1571 Brake Switch

P1582 Electronic Throttle Monitor Data Available

P1586 A/TM/T Codification.

P1600 Loss Of KAM Power, Cricuit Open

P1603 EEPROM Malfunction

P1605 Keep Alive Memory Test Failure

P1606 ECM Control Relay Output Circuit

P1607 MIL Output Circuit

P1608 PCM Malfunction.

P1609 Internal Control Module CPU to CPU Communication Failure

P1611 MIL Request Circuit Voltage Low.

P1612 Throttle Offset Malfunction

P1614 MIL Request Circuit Voltage High.

P1624 MIL Request Signal from TCM to ECM.

P1631 Alternator T Open or No Power Output (1.8L).

P1632 Battery Voltage Detection Circuit for Alternator Regulator (1.8L).

P1633 Battery Overcharge.

P1634 Alternator B Open (1.8L).

P1637 CAN Link ECM/ABS Control Module Circuit/Network

P1638 CAN Link ECM/INSTM Circuit/Network

P1641 Fuel Pump Primary Circuit

P1642 CAN Link Circuit

P1643 CAN Link Engine Control Module/Transmission Control Module Circuit/Network

P1646 Linear O2 Sensor Control Chip (Bank 1)

P1647 Linear O2 Sensor Control Chip (Bank 2)

P1648 Knock Sensor Input Chip

P1693 MIL Circuit Malfunction.

P1696 CAN Link Engine Control Module/Cruise Control Module Circuit/Network

P1697 Cruise Control Distance - Control Input Circuit

P1700 Transmission Indeterminate Failure (Failed to Neutral)

CODE	DECRYPTION
P1720	Vehicle Speed (Meter) Circuit
P1722	Stall Speed
P1726	Engine Overspeed
P1730	Gear Control Malfunction 2,3,5
P1731	Inconsistent Gear Ratio
P1734	Gear Control Malfunction
P1743	Torque Converter Clutch Solenoid Valve Open or Short.
P1745	Pressure Regulator 1
P1746	Pressure Regulator 2
P1747	Pressure Regulator 3

Body (airbags, central locking, power windows).

CODE	DECRYPTION
B0001	PCM Discrete Input Speed Signal Error
B0002	Driver Frontal Stage 2 Deployment Control (Subfault)
B0003	Driver Frontal Stage 3 Deployment Control (Subfault)
B0004	PCM Discrete Input Speed Signal Not Present
B0005	In Park Switch Circuit Malfunction
B0010	Passenger Frontal Stage 1 Deployment Control (Subfault)
B0011	Passenger Frontal Stage 2 Deployment Control (Subfault)
B0012	Passenger Frontal Stage 3 Deployment Control (Subfault)
B0013	Passenger Knee Bolster Deployment Control (Subfault)

B0016 RF/Passenger Frontal Deployment Loop (Single Stage or Stage 1) Resistance Low

B0017 RF/Passenger Frontal Deployment Loop (Single Stage or Stage 1) Open

B0018 RF/Passenger Frontal Deployment Loop (Single Stage or Stage 1) Short to
Ground/Voltage Out of Range

B0020 Left Side Airbag Deployment Control (Subfault)

B0021 Left Curtain Deployment Control 1 (Subfault)

B0022 LF/Driver Frontal Deployment Loop (Single Stage or Stage 1) Resistance Low

B0024 LF/Driver Frontal Deployment Loop (Single Stage or Stage 1) Short to
Ground/Voltage Out of Range

B0026 LF/Driver Frontal Deployment Loop (Single Stage or Stage 1) Open

B0028 RF/Passenger Side Deployment Loop Resistance Low

B0029 RF/Passenger Side Deployment Loop Open

B002A Right Curtain Deployment Control 2 (Subfault)

B0030 RF/Passenger Side Deployment Loop Short to Ground/Voltage Out of Range

B0031 Second Row Left Frontal Stage 1 Deployment Control (Subfault)

B0032 Second Row Left Frontal Stage 2 Deployment Control (Subfault)

B0033 Second Row Left Frontal Stage 3 Deployment Control (Subfault)

B0035 ADS Closed/Shorted to Ground

B0036 ADS Open/Missing/Shorted to Battery

B0037 AUX switch closed/shorted to ground

B0038 AUX switch open/shorted to battery

B0039 Second Row Right Frontal Stage 1 Deployment Control (Subfault)

B003A Second Row Right Frontal Stage 2 Deployment Control (Subfault)

B003B Second Row Right Frontal Stage 3 Deployment Control (Subfault)

B0040 LF/Driver Side Deployment Loop Resistance Low

B0041 LF/Driver Side Deployment Loop Open

B0042 Third Row Left Frontal Stage 2 Deployment Control (Subfault)

B0043 Third Row Left Frontal Stage 3 Deployment Control (Subfault)

B0045 LF Side Deploy Loop Short to Ground/Voltage Out of Range

B0048 Third Row Right Side Airbag Deployment Control (Subfault)

B0049 Third Row Right Frontal Stage 1 Deployment Control (Subfault)

B004A Third Row Right Frontal Stage 2 Deployment Control (Subfault)

B004B Third Row Right Frontal Stage 3 Deployment Control (Subfault)

B0050 Driver Seatbelt Sensor (Subfault)

B0051 Deployment Commanded

B0052 Passenger Seatbelt Sensor (Subfault)

B0053 Deployment Commanded with Loop Malfunctions Present

B0054 Second Row Center Seatbelt Sensor (Subfault)

B0055 Second Row Right Seatbelt Sensor (Subfault)

B0056 Third Row Left Seatbelt Sensor (Subfault)

B0057 RF/Passenger Pretensioner Deployment Loop Resistance Low

B0058 RF/Passenger Pretensioner Deployment Loop Open

B0059 RF/Passenger Pretensioner Deployment Loop Short to Ground/Voltage Out of
Range

B0060 Driver Seatbelt Tension Sensor (Subfault)

B0061 Passenger Seatbelt Tension Sensor (Subfault)

B0064 LF/Driver Pretensioner Deployment Loop Resistance Low

B0065 LF/Driver Pretensioner Deployment Loop Open

B0066 LF/Driver Pretensioner Deployment Loop Short to Ground/Voltage Out of Range

B0071 First Row Center Seatbelt Pretensioner Deployment Control (Subfault)

B0073 Supplemental Deployment Loop #1 Resistance Low

B0074 Supplemental Deployment Loop #1 Open

B0075 Supplemental Deployment Loop #1 Short to Ground/Voltage Out of Range

B0076 Third Row Left Seatbelt Pretensioner Deployment Control (Subfault)

B0077 LF/Driver SIS Malfunction

B0078 RF/Passenger SIS Malfunction

B0079 Incorrect LF/Driver SIS Installed

B0080 Discard LF/Driver SIS

B0081 Incorrect RF/Passenger SIS Installed

B0082 Discard RF/Passenger SIS

B0083 Second Row Left Seatbelt Load Limiter Deployment Control (Subfault)

B0084 Second Row Center Seatbelt Load Limiter Deployment Control (Subfault)

B0085 Second Row Right Seatbelt Load Limiter Deployment Control (Subfault)

B0086 Supplemental Deployment Loop #2 Resistance Low

B0087 Supplemental Deployment Loop #2 Open

B0088 Supplemental Deployment Loop #2 Short to Ground/Voltage Out of Range

B0090 Active switch voltage out of range

B0091 Active switch: wrong state

B0092 PPS passenger detection error

B0093 PPS/CPS self test malfunction

B0094 CPS childseat detection error

B0095 SDM-PPS/CPS mismatch malfunction

B0096 Right Side Restraints Sensor 1 (Subfault)

B0097 Right Side Restraints Sensor 2 (Subfault)

B0098 Right Side Restraints Sensor 3 (Subfault)

B0099 Roll Over Sensor (Subfault)

B009A Left Side Restraints Sensor 4 (Subfault)

B009B Left Side Restraints Sensor 5 (Subfault)

B009C Left Side Restraints Sensor 6 (Subfault)

B009D Right Side Restraints Sensor 4 (Subfault)

B009E Right Side Restraints Sensor 5 (Subfault)

B009F Right Side Restraints Sensor 6 (Subfault)

B00A0 Occupant Classification System (Subfault)

B00A1 Occupant Position System (Subfault)

B00B5 Driver Seat Track Position Restraints Sensor (Subfault)

B00B6 Driver Seat Recline Position Restraints Sensor (Subfault)

B00C5 Passenger Seat Track Position Restraints Sensor (Subfault)

B00C6 Passenger Seat Recline Position Restraints Sensor (Subfault)

B00D0 Driver Seatbelt Indicator (Subfault)

B00D1 Passenger Seatbelt Indicator (Subfault)

B00D2 Restraint System Malfunction Indicator 1 (Subfault)

B00D3 Restraint System Malfunction Indicator 2 (Subfault)

B00D4 Restraint System Malfunction Audible Indicator (Subfault)

B00D5 Restraint System Passenger Disable Indicator (Subfault)

B00DF Passenger Restraints Disable Switch (Subfault)

B0126 Right Panel Discharge Temperature Fault

B0131 Right Heater Discharge Temperature Fault

B0159 Outside Air Temperature Sensor Circuit Range/Performance

B0164 Passenger Compartment Temperature Sensor #1 (Single Sensor or LH) Circuit
Range/Performance

B0169 In-car Temp Sensor Failure (passenger -not used)

B0174 Output Air Temperature Sensor #1 (Upper; Single or LH) Circuit Range/Performance

B0179 Output Air Temperature Sensor #2 (Lower; Single or LH) Circuit Range/Performance

B0184 Solar Load Sensor #1 CKT Range

B0189 Solar Load Sensor #2 CKT Range

B0248 Mode Door Inoperative Error

B0249 Heater/Defrost/AC Door Range Error

B0268 A/I Door Inoperative Error

B0269 Air Inlet Door Range Error

B0408 Temperature Control #1 (Main/Front) Circuit Malfunction

B0409 Air Mix Door #1 Range Error

B0419 Air Mix Door #2 Range Error

B0423 Air Mix Door #2 Inoperative Error

B0428 Air Mix Door #3 Inoperative Error

B0429 Temperature Control #3 Rear Circuit Range/Performance

B0510 RH Panel Discharge Temp Sensor Failure

CODE	DECRYPTION
B0515	RH Heater Discharge Temp Sensor Failure
B0520	Rear Discharge Temp Sensor Failure
B0530	Fuel Level Sensor Stuck
B0532	Fuel Sensor Shorted To Ground
B0533	Fuel Sensor Open/Shorted To B+
B0688	Security System Indicator Circuit High
B0768	Service Indicator Circuit High
B0846	+5 Volt Reference Out of Range
B0856	Battery 2 Out of Range

Chassis (ABS traction control, ESP, TCS Traction Control System

CODE	DECRYPTION
C0010	Left Front Inlet Control (Subfault)
C0011	Left Front Outlet Control (Subfault)
C0012	Left Front Hydraulic Release Too Long (Subfault)
C0014	Right Front Inlet Control (Subfault)
C0015	Right Front Outlet Control (Subfault)
C0016	Right Front Hydraulic Release Too Long (Subfault)
C0018	Left Rear Inlet Control (Subfault)
C0019	Left Rear Outlet Control (Subfault)
C001A	Left Rear Hydraulic Release Too Long (Subfault)
C001C	Right Rear Inlet Control (Subfault)

CODE	DECRYPTION
C001D	Right Rear Outlet Control (Subfault)
C001E	Right Rear Hydraulic Release Too Long (Subfault)
C0020	ABS Pump Motor Control (Subfault)
C0021	Brake Booster Performance (Subfault)
C0022	Brake Booster Solenoid (Subfault)
C0023	Stop Lamp Control (Subfault)
C0030	Left Front Tone Wheel (Subfault)
C0031	Left Front Wheel Speed Sensor (Subfault)
C0032	Left Front Wheel Speed Sensor Supply (Subfault)
C0033	Right Front Tone Wheel (Subfault)
C0034	Right Front Wheel Speed Sensor (Subfault)
C0035	Right Front Wheel Speed Sensor Supply (Subfault)
C0036	Left Rear Tone Wheel (Subfault)
C0037	Left Rear Wheel Speed Sensor (Subfault)
C0038	Left Rear Wheel Speed Sensor Supply (Subfault)
C0039	Right Rear Tone Wheel (Subfault)
C003A	Right Rear Wheel Speed Sensor (Subfault)
C003B	Right Rear Wheel Speed Sensor Supply (Subfault)
C003C	Rear Tone Wheel (Subfault)
C003D	Rear Wheel Speed Sensor (Subfault)
C003E	Rear Wheel Speed Sensor Supply (Subfault)
C0047	Brake Booster Pressure Sensor (Subfault)
C0048	Brake Booster Travel Sensor (Subfault)

CODE	DECRYPTION
C0049	Brake Fluid (Subfault)
C004A	Brake Lining Wear Sensor (Subfault)
C0051	Steering Wheel Position Sensor (Subfault)
C0061	Lateral Acceleration Sensor (Subfault)
C0062	Longitudinal Acceleration Sensor (Subfault)
C0063	Yaw Rate Sensor (Subfault)
C0064	Roll Rate Sensor
C0069	Yaw Rate/Longitude Sensors (Subfault)
C006A	Multi-axis Acceleration Sensor (Subfault)
C006B	Stability System Active Too Long (Subfault)
C006C	Stability System
C0071	2/4 Wheel Drive Status Input (Subfault)
C0072	Brake Temperature Too High (Subfault)
C0073	Delivered Driving Torque (Subfault)
C0074	Requested Driving Torque (Subfault)
C0075	Extended Brake Pedal Travel, output to PCM (Subfault)
C0076	PWM for Traction Control (Subfault)
C0077	Low Tire Pressure (Subfault)
C0078	Tire Diameter (Subfault)
C0079	Variable Effort Steering (Subfault)
C0081	ABS Malfunction Indicator (Subfault)
C0082	Brake System Malfunction Indicator (Subfault)
C0083	Tire Pressure Monitor Malfunction Indicator (Subfault)

CODE	DECRYPTION
C0084	Traction Active Indicator (Subfault)
C0085	Traction Disable Indicator (Subfault)
C0086	Vehicle Dynamics Indicator (Subfault)
C0089	TCS Disable Switch (Subfault)
C008A	TCS Mode Control (Subfault)

Control of the mixture formation system and the system of add.
emission reduction

CODE	DECRYPTION
P0000	No fault detected
P0001	Fuel regulator control - open circuit
P0002	Fuel Regulator Control - Circuit Parameters
P0003	Fuel Regulator Control - Voltage Low
P0004	Fuel Regulator Control - Voltage High
P0005	Fuel cut-off valve - open circuit
P0006	Fuel cut-off valve - signal low
P0007	Fuel cut-off valve - signal high
P0008	Phase synchronization system, bank 1 - engine performance
P0009	Phase synchronization system, bank 2 - engine performance
P000A	Intake camshaft position A, bank 1 - slow response
P000B	Exhaust camshaft position B, bank 1 - small performance

P000C Intake camshaft position A, bank 2 - slow response

P000D Exhaust camshaft position B, bank 2 - small
performance

P000E Fuel injection pump control - learning limit exceeded

P000F Fuel system pressure relief valve activated

P0010 Variable valve timing actuator, intake/left/front, bank 1 - circuit malfunction

P0011 Camshaft Position Intake/LH/Front Bank 1 -
valve opening angle too early / malfunction
systems

P0012 Camshaft Position Intake/LH/Front Bank 1 Valve Angle Too Late

P0013 Variable valve timing actuator, intake/left/front, bank 1 - circuit malfunction

P0014 Variable Valve Timing Actuator Exhaust/LH/Rear Bank 1 Opening Angle Too
Early / System Performance

P0015 Variable Valve Timing Actuator Exhaust/LH/Rear Bank 1 Opening Angle Too Late

P0016 Crankshaft and Camshaft Position Bank 1 Sensor A - No
compliance

P0017 Crankshaft and Camshaft Position Bank 1 Sensor B -
correlation

P0018 Crankshaft and Camshaft Position Bank 2 Sensor A -
correlation

P0019 Crankshaft and Camshaft Position Bank 2 Sensor B -
correlation

P001A Intake camshaft profile control A, bank 1 - open
chains

P001B Intake camshaft profile control A, bank 1 - low signal level

P001C Intake camshaft profile control A, bank 1 - high signal level
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P001D Intake camshaft profile control A, bank 2 - open chains
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P001E Intake camshaft profile control A, bank 2 - low signal level

P001F Intake camshaft profile control A, bank 2 - high signal level
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P0020 Variable valve timing actuator, intake/left/front, bank 2 - circuit malfunction

P0021 Camshaft Position Intake/LH/Front Bank 2 - valve opening angle too early / malfunction systems
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P0022 Camshaft position, intake/left/front, bank 2 - valve opening angle too late

P0023 Variable valve timing actuator, exhaust/right/rear, bank 2 - circuit malfunction
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P0024 Camshaft Position Exhaust/LH/Rear Bank 2 - opening angle too early / system functioning
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P0025 Camshaft Position Exhaust/LH/Rear Bank 2 - too late opening angle
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P0026 Intake valve control solenoid, bank 1 circuit range/performance

P0027 Exhaust valve control solenoid bank 1 circuit range/performance

P0028 Intake valve control solenoid bank 2 circuit range/performance
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P0029 Exhaust valve control solenoid, bank 2 - circuit range/performance

P002A Control B profile of the exhaust camshaft, bank 1 - open
chains

P002B Exhaust camshaft profile B control, bank 1 - low
signal level

P002C Exhaust camshaft profile B control, bank 1 -
high signal level

P002D Control B profile of the exhaust camshaft, bank 2 - open
chains

P002E Exhaust camshaft profile B control, bank 2 - low
signal level

P002F Control B profile of the exhaust camshaft, bank 2 -
high signal level

P0030 Heated oxygen sensor 1, bank 1, heater control -
electrical circuit malfunction

P0031 Heated oxygen sensor 1, bank 1, heater control -
circuit low voltage

P0032 Heated oxygen sensor 1, bank 1, heater control -
high voltage circuit

P0033 Turbocharger bypass valve - circuit malfunction

P0034 Turbocharger bypass valve - circuit low

P0035 Turbocharger bypass valve - signal high

P0036 Heated oxygen sensor 2, bank 1, heater control -
electrical circuit malfunction

P0037 Heated oxygen sensor 2, bank 1, heater control -
circuit low voltage

P0038 Heated oxygen sensor 2, bank 1, heater control -
high voltage circuit

P0039 Turbocharger Bypass Valve / Actuator Bypass Valve
Supercharger Control - Range/Performance

P003A Turbocharger / supercharger boost pressure control A
- learning limit exceeded

P003B Turbocharger/supercharger boost pressure control B -
learning limit exceeded

P003C Intake camshaft profile control A, bank 1 - performance problems or sticking
closed

P003D Intake camshaft profile control A, bank 1 -
stuck open

P003E Intake camshaft profile control A, bank 2 - performance problems or sticking
closed

P003F Intake camshaft profile control A, bank 2 -
stuck open

P0040 Interchanged connection of oxygen sensors 1, bank 1 and bank 2

P0041 Interchanged connection of oxygen sensors 2, bank 1 and bank 2

P0042 Heated oxygen sensor 3, bank 1, heater control -
electrical circuit malfunction

P0043 Heated oxygen sensor 3, bank 1, heater control -
circuit low voltage

P0044 Heated oxygen sensor 3, bank 1, heater control -
high voltage circuit

P0045 Turbo boost pressure control solenoid/supercharger boost pressure control
valve - open circuit

P0046 Solenoid control valve turbo pressure / boost pressure
Supercharger Drive Range/Performance

P0047 Turbo boost pressure/supercharger boost pressure control solenoid circuit
low

P0048 Turbo boost pressure/supercharger boost pressure control solenoid circuit high

P0049 Turbine turbocharger / supercharger - overspeed

P004A Turbocharger / supercharger boost pressure control - open circuit

P004B Turbocharger/supercharger boost pressure control B - range/performance

P004C Turbocharger/supercharger boost pressure control B - circuit low

P004D Turbocharger/supercharger boost pressure control B - circuit high

P004E Turbocharger / supercharger boost pressure control A - intermittent / chaotic signal

P004F Turbocharger/supercharger boost pressure control B - fading/chaotic signal

P0050 Heated oxygen sensor 1, bank 2, heater control - electrical circuit malfunction

P0051 Heated oxygen sensor 1, bank 2, heater control circuit low

P0052 Heated oxygen sensor 1, bank 2, heater control circuit high

P0053 Heated oxygen sensor 1, bank 1 - heater resistance

P0054 Heated oxygen sensor 1, bank 2 - heater resistance

P0055 Heated oxygen bank 1 sensor 3 - heater resistance

P0056 Heated oxygen sensor 2, bank 2, heater control - electrical circuit malfunction

P0057 Heated oxygen sensor 2, bank 2, heater control - heater circuit low voltage

P0058 Heated oxygen sensor 2, bank 2, heater control circuit high

P0059 Heated oxygen sensor 1, bank 2 - heater resistance

P005A Exhaust camshaft profile B control, bank 1 - performance problems or sticking closed

P005B Exhaust camshaft profile B control, bank 1 - stuck open

P005C Exhaust camshaft profile B control, bank 2 - performance problems or sticking closed

P005D Exhaust camshaft profile B control, bank 2 - stuck open

P005E Turbocharger/supercharger boost pressure control B - low supply voltage

P005F Turbocharger/supercharger boost pressure control B - high supply voltage

P0060 Heated oxygen sensor, bank 2, sensor 2 - resistance heater

P0061 Heated oxygen sensor, bank 2, sensor 3 - resistance heater

P0062 Heated oxygen sensor 3, bank 2, heater control - **electrical circuit malfunction**

P0063 Heated oxygen sensor 3, bank 2, heater control circuit low

P0064 Heated oxygen sensor 3, bank 2, heater control circuit high

P0065 Injector with additional air channel - range / functioning

P0066 Injector with additional air channel - circuit malfunction / low voltage

P0067 Injector with additional air channel - circuit voltage high

P0068 Manifold absolute pressure sensor / air flow sensor (MAF) - throttle position mismatch

P0069 Manifold absolute pressure sensor / atmospheric sensor
pressure - correlation

P006A Intake manifold absolute pressure sensor / flow sensor
air, bank 1 - correlation

P006B Intake manifold absolute pressure sensor/exhaust system pressure - correlation

P006C Intake manifold absolute pressure (MAP) sensor/sensor
boost pressure (turbocharger/supercharger) - correlation

P006D Atmospheric pressure sensor / pressure sensor at the inlet to the turbocharger /
supercharger - correlation

P006E Turbocharger / supercharger boost pressure control A
- low supply voltage

P006F Turbocharger / supercharger boost pressure control A
- high supply voltage

P0070 Ambient air temperature sensor - electrical malfunction
chains

P0071 Ambient air temperature sensor - range / performance

P0072 Ambient temperature sensor - low signal

P0073 Ambient air temperature sensor - output high
signal

P0074 Ambient temperature sensor - unreliable contact of the electrical circuit

P0075 Intake valve control solenoid bank 1 - circuit malfunction

P0076 Intake valve control solenoid, bank 1 - low voltage
chains

CODE	DECRYPTION
P0077	Intake valve control solenoid, bank 1 - voltage high chains
P0078	Exhaust valve control solenoid bank 1 - circuit malfunction
P0079	Exhaust valve control solenoid, bank 1 - voltage low chains
P007A	Intercooler temperature sensor, bank 1 - electrical circuit malfunction
P007B	Intercooler temperature sensor bank 1 - range/performance
P007C	Intercooler temperature sensor, bank 1 circuit low
P007D	Intercooler temperature sensor, bank 1 - high signal level
P007E	Intercooler intercooler temperature sensor, bank 1 - intermittent/erratic signal
P007F	Intercooler temperature sensor, bank 1/2 - correlation
P0080	Exhaust valve control solenoid, bank 1 - voltage high chains
P0081	Intake valve control solenoid, bank 2 - circuit malfunction
P0082	Inlet valve control solenoid, bank 2 - low signal
P0083	Intake valve control solenoid bank 2 high signal
P0084	Exhaust valve control solenoid bank 2 - circuit malfunction
P0085	Exhaust valve control solenoid, bank 2 - low signal

P0086 Exhaust valve control solenoid bank 2 high

signal

P0087 System/Fuel Rail Pressure Too Low

P0088 System/Fuel Rail Pressure Too High

P0089 Fuel pressure regulator 1 - performance

P008A Fuel system low pressure line - pressure too low

P008B Fuel system low pressure line - pressure too high

P008C Coolant pump control (fuel system) - open circuit

P008D Coolant pump relay (fuel system) - circuit low

P008E Cooling pump (fuel system) - control high

signal

P008F Coolant temperature / fuel temperature - correlation

P0090 Fuel pressure regulator 1 - open circuit

P0091 Fuel pressure regulator 1 - short to ground

P0092 Fuel pressure regulator 1 - short to +

P0093 Significant leak in the fuel system

P0094 Minor leak in the fuel system

P0095 Intake air temperature sensor 2 - circuit malfunction

P0096 Intake air temperature sensor 2 - range / performance

P0097 Intake air temperature sensor 2 - input low

P0098 Intake air temperature sensor 2 - high input

P0099 Intake air temperature sensor 2 - unreliable / intermittent
electrical circuit contact

P009A Intake manifold air temperature / ambient temperature
air - correlation

P009B Fuel pressure relief system - control circuit open

P009C Fuel pressure relief system - control signal low
chains

P009D Fuel pressure relief system - control signal high
chains

P009E Fuel pressure relief system - performance problems or
sticking in the closed position

P009F Fuel pressure relief system - valve stuck

P00A0 Intercooler temperature sensor bank
2 - electrical circuit malfunction

P00A1 Intercooler temperature sensor bank
2 - range/performance

P00A2 Intercooler temperature sensor, bank 2 - circuit low

P00A3 Intercooler temperature sensor bank
2 - high signal level

P00A4 Intercooler intercooler temperature sensor, bank 2 - intermittent/erratic signal

P00A5 Intake air temperature sensor 2, bank 2 - circuit malfunction

P00A6 Intake air temperature sensor 2, bank 2 - circuit range/
functioning

P00A7 Intake air temperature sensor 2, bank 2 - circuit low

P00A8 Intake air temperature sensor 2, bank 2 - circuit high

P00A9 Intake air temperature sensor 2, bank 2 - intermittent/erratic
signal

P00AA Intake air temperature sensor 1, bank 2 - circuit malfunction

CODE	DECRYPTION
P00AB	Intake air temperature sensor 1, bank 2 - circuit range/ functioning
P00AC	Intake air temperature sensor 1, bank 2 - circuit low
P00AD	Intake air temperature sensor 1, bank 2 circuit high
P00AE	Intake air temperature sensor 1, bank 2 - intermittent/erratic signal
P00AF	Turbocharger / supercharger boost pressure control A - control unit characteristics
P00B0	Turbocharger / supercharger boost pressure control B - control unit characteristics
P00B1	Cooling system radiator temperature sensor - circuit malfunction
P00B2	Radiator temperature sensor - circuit range/performance
P00B3	Cooling system radiator temperature sensor - circuit low
P00B4	Cooling system radiator temperature sensor - high signal
P00B5	Cooling system radiator temperature sensor - intermittent / chaotic signal
P00B6	Coolant temperature in the radiator / coolant temperature engine fluids - correlation
P00B7	Low coolant flow - performance problems
P00B8	Manifold absolute pressure sensor / flow sensor air, bank 2 - correlation
P00B9	Fuel pressure sensor - pressure too low
P00BA	Low fuel pressure - forced power limit mode
P00BB	Injector, insufficient flow - forced restriction mode power

P00BC Mass air flow (MAF) sensor A - circuit range/performance

P00BD Air mass sensor (MAF) A - circuit range/performance

P00BE Air flow sensor (MAF) B - circuit range/performance

P00BF Air flow sensor (MAF) B - circuit range/performance

P00C0 Turbocharger/supercharger bypass valve B -
control circuit

P00C1 Turbocharger/supercharger bypass valve B - low
signal level

P00C2 Turbocharger/supercharger control valve B - high
signal level

P00C3 Turbocharger/supercharger bypass valve B - circuit range/
functioning

P00C4 Turbocharger/supercharger bypass valve B -
mechanical failure

P00C5 Turbocharger/supercharger turbine - overspeed

P00C6 Fuel rail pressure sensor, starter cranking -
too low pressure

P00C7 Intake air pressure measurement - sensor correlation

P00C8 Fuel pressure regulator solenoid - open circuit

P00C9 Fuel pressure regulator control solenoid - circuit low
signal

P00CA Fuel pressure control solenoid - circuit high

P00CB Fuel regulator - open circuit

P00CC Fuel regulator - circuit low

P00CD Fuel regulator - circuit high

P00CE Intake air temperature measurement - sensor correlation

CODE	DECRYPTION
P00CF	Atmospheric pressure sensor/boost pressure sensor A (turbocharger/supercharger actuator) - correlation
P00D0	Atmospheric pressure sensor / boost pressure sensor B (turbocharger / supercharger) - correlation

Control of the mixing system

CODE	DECRYPTION
P0100	Air flow sensor (mass - MAF) / (volumetric - VAF) - malfunction electrical circuit
P0101	Air flow sensor (MAF) / (VAF) - circuit range / performance
P0102	Air flow sensor (MAF) / (VAF) - input low
P0103	Air flow sensor (MAF) / (VAF) - high input
P0104	Air flow sensor (MAF) / (VAF) - unreliable electrical contact chains
P0105	Intake manifold absolute pressure (MAP) sensor / barometric pressure sensor - circuit malfunction
P0106	Manifold Absolute Pressure Sensor / Atmospheric Sensor pressure - range/function
P0107	Manifold absolute pressure sensor / barometric pressure sensor - circuit low
P0108	Manifold Absolute Pressure Sensor / Atmospheric Sensor pressure - high signal level
P0109	Intake manifold absolute pressure sensor (MAP) / atmospheric pressure sensor - unreliable contact of the electrical circuit
P010A	Air flow sensor B - circuit malfunction
P010B	Control unit In exhaust gas recirculation (EGR) system - communication failure

P010C Air mass sensor B - circuit low

P010D Air mass sensor B - signal high

P010E Air flow sensor B - intermittent / erratic signal

P010F Air flow sensor A / B - correlation

P0110 Intake air temperature sensor - circuit malfunction

P0111 Intake air temperature sensor - circuit range / performance

P0112 Intake air temperature sensor - low signal

P0113 Intake air temperature sensor - high input

P0114 Intake air temperature sensor - unreliable electrical contact
chains

P0115 Coolant temperature sensor - circuit malfunction

P0116 Coolant Temperature Sensor Circuit Range/Performance

P0117 Coolant temperature sensor - low signal

P0118 Coolant temperature sensor - high input
signal

P0119 Coolant temperature sensor - unreliable contact of the electrical circuit

P011A Coolant temperature sensor 1/2 - correlation

P011B Coolant temperature/intake air temperature -
correlation

P011C Charge air temperature / intake air temperature, bank 1 -
correlation

P011D Charge air temperature / intake air temperature, bank 2 -
correlation

P011E Coolant temperature sensor 1 / temperature sensor
ambient air - correlation

P011F Coolant temperature sensor 2 / temperature sensor
ambient air - correlation

P0120 Throttle Position Sensor A / Pedal Position Sensor A
accelerator - electrical circuit malfunction

P0121 Throttle position sensor A / accelerator pedal position sensor A - range /
performance

P0122 Throttle Position Sensor A / Pedal Position Sensor A
accelerator - low signal level

P0123 Throttle Position Sensor A / Accelerator Pedal Position Sensor A - Circuit High

P0124 Throttle Position Sensor A / Pedal Position Sensor A
accelerator - unreliable contact of the electrical circuit

P0125 Coolant temperature is insufficient for feedback fuel control

P0126 The coolant temperature is insufficient for stable operation

P0127 Intake air temperature too high

P0128 Cooling system thermostat - coolant temperature below
thermostat opening temperature

P0129 Atmospheric pressure too low

P012A Turbocharger / supercharger inlet pressure sensor -
electrical circuit malfunction

P012B Turbocharger / supercharger inlet pressure sensor -
range/performance

P012C Turbocharger / supercharger inlet pressure sensor - low
signal level

P012D Turbocharger / supercharger inlet pressure sensor -
high signal level

P012E Turbocharger / supercharger inlet pressure sensor -
fading/chaotic signal

P0130 Heated oxygen sensor 1, bank 1 - electrical malfunction

chains

P0131 Heated oxygen sensor 1, bank 1 - voltage low

P0132 Heated oxygen sensor 1, bank 1 - voltage high

P0133 Heated oxygen sensor 1, bank 1 - slow response

P0134 Heated oxygen sensor 1, bank 1 - no response

P0135 Heated oxygen sensor 1, bank 1, heater control -
electrical circuit malfunction

P0136 Heated oxygen sensor 2, bank 1 - electrical malfunction

chains

P0137 Heated oxygen sensor 2, bank 1 - voltage low

P0138 Heated oxygen sensor 2, bank 1 - voltage high

P0139 Heated oxygen sensor 2, bank 1 - slow response

P013A Heated oxygen sensor 2, bank 1 - low speed with
rich on lean mixture

P013B Heated oxygen sensor 2, bank 1 - low speed with
lean to rich mixture

P013C Heated oxygen sensor 2, bank 2 - low speed with
rich on lean mixture

P013D Heated oxygen sensor 2, bank 2 - low speed with
lean to rich mixture

P013E Heated oxygen sensor 2, bank 1 - rich to lean response delay

P013F Heated oxygen sensor 2, bank 1 - lean to late response
rich mixture

P0140 Heated oxygen sensor 2, bank 1 - no response

P0141 Heated oxygen sensor 2, bank 1, heater control -
electrical circuit malfunction

P0142 Heated oxygen sensor 3, bank 1 - electrical malfunction
chains

P0143 Heated oxygen sensor 3, bank 1 - voltage low

P0144 Heated oxygen sensor 3, bank 1 - voltage high

P0145 Heated oxygen sensor 3, bank 1 - low speed

P0146 Heated oxygen sensor 3, bank 1 - no response

P0147 Heated oxygen sensor 3, bank 1, heater control -
electrical circuit malfunction

P0148 Incorrect fuel supply

P0149 Incorrect injection timing

P014A Heated oxygen sensor 2, bank 2 - rich to lean response delay

P014B Heated oxygen sensor 2, bank 2 - lean to late response
rich mixture

P014C Heated oxygen sensor 1, bank 1 - low speed with
rich on lean mixture

P014D Heated oxygen sensor 1, bank 1 - low speed with
lean to rich mixture

P014E Heated oxygen sensor 1, bank 2 - low speed with
rich on lean mixture

P014F Heated oxygen sensor 1, bank 2 - low speed with
lean to rich mixture

P0150 Heated oxygen sensor 1, bank 2 - electrical malfunction
chains

P0151 Heated oxygen sensor 1, bank 2 - voltage low

P0152 Heated oxygen sensor 1, bank 2 - voltage high

P0153 Heated oxygen sensor 1, bank 2 - slow response

P0154 Heated oxygen sensor 1, bank 2 - no response

P0155 Heated oxygen sensor 1, bank 2, heater control -
electrical circuit malfunction

P0156 Heated oxygen sensor 2, bank 2 - electrical malfunction
chains

P0157 Heated oxygen sensor 2, bank 2 - voltage low

P0158 Heated oxygen sensor 2, bank 2 - voltage high

P0159 Heated oxygen sensor 2, bank 2 - slow response

P015A Heated oxygen sensor 1, bank 1 - rich to lean response delay

P015B Heated oxygen sensor 1, bank 1 - lean response late
rich mixture

P015C Heated oxygen sensor 1, bank 2 - rich response delay
lean mixture

P015D Heated oxygen sensor 1, bank 2 - lean to late response
rich mixture

P0160 Heated oxygen sensor 2, bank 2 - no response

P0161 Heated oxygen sensor 2, bank 2, heater control -
electrical circuit malfunction

P0162 Heated oxygen sensor 3, bank 2 - electrical malfunction
chains

P0163 Heated oxygen sensor 3, bank 2 - voltage low

P0164 Heated oxygen sensor 3, bank 2 - voltage high

P0165 Heated oxygen sensor 3, bank 2 - slow response

P0166 Heated oxygen sensor 3, bank 2 - no response

P0167 Heated oxygen sensor 3, bank 2, heater control -
electrical circuit malfunction

P0168 Fuel temperature too high

P0169 Incorrect fuel composition

P016A Mixture control - time exceeded to enter the feedback mode

P016B Mixture Control (Closed Loop Mode) Limit
reached - mixture too rich

P016C Mixture Control (Closed Loop Mode) Limit
reached - mixture too lean

P016D Fuel pressure control - operating mode entry time exceeded
with feedback

P016E Fuel pressure control (closed loop mode) limit
reached - pressure too high

P016F Fuel pressure control (closed loop mode) limit
reached - pressure too low

P0170 Fuel Balance Bank 1 Malfunction

P0171 Air-fuel mixture too lean, bank 1

P0172 Air-fuel mixture too rich, bank 1

P0173 Fuel Balance Bank 2 Malfunction

P0174 Air-fuel mixture too lean, bank 2

P0175 Air-fuel mixture too rich, bank 2

P0176 Mixture composition sensor - circuit malfunction

P0177 Mixture composition sensor - range / performance

P0178 Mixture composition sensor - low signal

P0179 Mixture composition sensor - high signal

P017A Cylinder head temperature sensor - electrical malfunction
chains

P017B Cylinder head temperature sensor circuit range/performance

P017C Cylinder head temperature sensor - circuit low

P017D Cylinder head temperature sensor - circuit high

P017E Cylinder head temperature sensor - intermittent / erratic
signal

P0180 Fuel temperature sensor A - circuit malfunction

P0181 Fuel temperature sensor A - circuit range / performance

P0182 Fuel temperature sensor A - circuit low

P0183 Fuel temperature sensor A - high input

P0184 Fuel temperature sensor A - unreliable contact of the electrical circuit

P0185 Fuel temperature sensor B - circuit malfunction

P0186 Fuel temperature sensor B - circuit range / performance

P0187 Fuel temperature sensor B - input low

P0188 Fuel Temperature Sensor B - High Input

P0189 Fuel temperature sensor B - unreliable contact of the electrical circuit

P018A Fuel pressure sensor B - circuit malfunction

P018B Fuel pressure sensor B circuit range/performance

P018C Fuel pressure sensor B - circuit low

P018D Fuel pressure sensor B - circuit high

P018E Fuel pressure sensor B - intermittent / chaotic signal

P018F Fuel pressure relief system - frequent activation

P0190 Fuel rail pressure sensor - electrical fault
chains

P0191 Fuel rail pressure sensor circuit range/performance

P0192 Fuel rail pressure sensor - circuit low

P0193 Fuel rail pressure sensor - high input

P0194 Pressure sensor in the fuel manifold - unreliable contact of the electrical
circuit

P0195 Engine oil temperature sensor - circuit malfunction

P0196 Engine oil temperature sensor - range / performance

P0197 Engine oil temperature sensor - low signal

P0198 Engine oil temperature sensor - high input

P0199 Engine oil temperature sensor - unreliable electrical contact
chains

P0200 Injector - electrical circuit malfunction

P0201 Injector 1 - electrical circuit malfunction

P0202 Injector 2 - electrical circuit malfunction

P0203 Injector 3 - electrical circuit malfunction

P0204 Injector 4 - electrical circuit malfunction

P0205 Injector 5 - electrical circuit malfunction

P0206 Injector 6 - electrical circuit malfunction

P0207 Injector 7 - electrical circuit malfunction

P0208 Injector 8 - electrical circuit malfunction

P0209 Injector 9 - electrical circuit malfunction

P020A Injection advance angle, cylinder 1

P020B Injection advance angle, cylinder 2

P020C Injection advance angle, cylinder 3

P020D Injection advance angle, cylinder 4

P020E Injection advance angle, cylinder 5

P020F Injection advance angle, cylinder 6

P0210 Injector 10 - electrical circuit malfunction

P0211 Injector 11 - electrical circuit malfunction

P0212 Injector 12 - electrical circuit malfunction

P0213 Cold start injector 1 - electrical circuit malfunction

P0214 Cold start injector 2 - circuit malfunction

P0215 E / m fuel cut-off valve - electrical circuit malfunction

P0216 Fuel injection advance control - circuit malfunction

P0217 Engine overheating

P0218 Transmission overheating

P0219 Exceeding the permissible crankshaft speed

P021A Injection advance angle, cylinder 7

P021B Injection advance angle, cylinder 8

P021C Injection advance angle, cylinder 9

P021D Injection advance angle, cylinder 10

P021E Injection advance angle, cylinder 11

P021F Injection advance angle, cylinder 12

P0220 Throttle Position Sensor B / Pedal Position Sensor B
accelerator - electrical circuit malfunction

P0221 Throttle position sensor B / accelerator pedal position sensor B - circuit range/
performance

P0222 Throttle position sensor B / accelerator pedal position sensor B - input low

P0223 Throttle Position Sensor B / Pedal Position Sensor B
accelerator - high input level

P0224 Throttle Position Sensor B / Pedal Position Sensor B
accelerator - unreliable contact of the electrical circuit

P0225 Throttle Position Sensor C / Pedal Position Sensor C
accelerator - electrical circuit malfunction

P0226 Throttle position sensor C / accelerator pedal position sensor C - circuit range /
performance

P0227 Throttle Position Sensor C / Pedal Position Sensor C
accelerator - low input level

P0228 Throttle Position Sensor C / Pedal Position Sensor C
accelerator - high input level

P0229 Throttle Position Sensor C / Pedal Position Sensor C
accelerator - unreliable contact of the electrical circuit

P022A Intercooler bypass actuator A - open circuit
chains

P022B Intercooler bypass actuator control A - circuit low

P022C Intercooler Bypass Actuator A -
high signal level

P022D Actuator control B intercooler bypass - open circuit

P022E Intercooler bypass actuator control B - circuit low

P022F Intercooler Bypass Actuator Control B
air - high signal level

P0230 Fuel pump relay - electrical circuit malfunction

P0231 Fuel pump relay - circuit low voltage

P0232 Fuel pump relay - circuit high voltage

P0233 Fuel pump relay - unreliable contact of the electrical circuit

P0234 Turbo boost pressure - upper limit exceeded

P0235 Intake manifold absolute pressure sensor A system
turbocharging - electrical circuit malfunction

P0236 Intake manifold absolute pressure sensor A, system
turbo - range / performance

P0237 Intake manifold absolute pressure sensor A, turbocharging system -
circuit low

P0238 Manifold absolute pressure sensor A, turbocharging system - signal high

P0239 Manifold absolute pressure (MAP) sensor B, turbocharging system - circuit
malfunction

P023A Intercooler cooling pump - open circuit
chains

P023B Intercooler cooling pump -
low signal level

P023C Intercooler cooling pump - circuit low

P023D Intake Manifold Absolute Pressure Sensor/Sensor A
boost pressure - correlation

P023E Intake manifold absolute pressure sensor/sensor B
boost pressure - correlation

P023F Secondary fuel pump - electrical circuit malfunction

P0240 Manifold absolute pressure (MAP) sensor B, turbo system - circuit range/
performance

P0241 Manifold absolute pressure (MAP) sensor B, turbocharging system - circuit low

P0242 Manifold absolute pressure (MAP) sensor B, turbocharging system - signal high

P0243 Supercharger bypass valve A - malfunction
electrical circuit

P0244 Supercharger A bypass valve circuit range/performance

P0245 Supercharger Bypass Valve A - Circuit Low

P0246 Supercharger Bypass Valve A - Signal High

P0247 Supercharger bypass valve B - electrical malfunction
chains

P0248 Supercharger Bypass Valve B Circuit Range/Performance

P0249 Supercharger Bypass Valve B - Circuit Low

P024A Intercooler Bypass Actuator A -
range/performance

P024B Intercooler Bypass Actuator A -
drive stuck

P024C Intercooler bypass actuator A position sensor - circuit malfunction

P024D Actuator Position Sensor A Intercooler Bypass
charge air - range/performance

P024E Intercooler bypass actuator position sensor A - circuit low

P024F Actuator Position Sensor A Bypass Intercooler - Circuit High

P0250 Supercharger Bypass Valve B Circuit High

P0251 Fuel dispenser A, rotor / cam / nozzle - electrical malfunction
chains

P0252 Fuel Meter A Rotor/Cam/Injector Range/Performance

P0253 Fuel dispenser A, rotor / cam / injector - signal low

P0254 Fuel dispenser A, rotor / cam / injector - signal high

P0255 Fuel dispenser A, rotor / cam / nozzle - unreliable contact of the electrical circuit

P0256 Fuel dispenser B, rotor / cam / injector - electrical malfunction chains

P0257 Fuel Meter B Rotor/Cam/Injector Range/Performance

P0258 Fuel Meter B Rotor/Cam/Injector Circuit Low

P0259 Fuel Meter B Rotor/Cam/Injector Circuit High

P025A Fuel pump control unit - open circuit

P025B Fuel pump control module - range / performance

P025C Fuel pump control unit - circuit low

P025D Fuel pump control unit - circuit high

P025E Boost pressure sensor A (turbocharger / supercharger drive) - intermittent / erratic signal

P025F Boost pressure sensor B (turbocharger / supercharger drive) - intermittent / erratic signal

P0260 Fuel dispenser B, rotor / cam / nozzle - unreliable contact of the electrical circuit

P0261 Injector 1 - low signal

P0262 Injector 1 - high signal

P0263 Cylinder 1 - wrong power balance

P0264 Injector 2 - low signal

P0265 Injector 2 - high signal

P0266 Cylinder 2 - wrong power balance
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P0267 Injector 3 - low signal

P0268 Injector 3 - high signal

P0269 Cylinder 3 - incorrect power balance
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P026A Intercooler - efficiency below required

P026B Injection advance - performance

P026C Fuel supply - volume below the required

P026D Fuel supply - volume above required

P0270 Injector 4 - low signal

P0271 Injector 4 - high signal

P0272 Cylinder 4 - incorrect power balance
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P0273 Injector 5 - low signal

P0274 Injector 5 - high signal

P0275 Cylinder 5 - incorrect power balance
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P0276 Injector 6 - low signal

P0277 Injector 6 - high signal

P0278 Cylinder 6 - incorrect power balance
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P0279 Injector 7 - low signal

P027A Fuel pump control unit B - open circuit

P027B Fuel pump control module B - range / performance
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P027C Fuel pump control module B - circuit low
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P027D Fuel pump control module B - circuit high

P0280 Injector 7 - high signal

P0281 Cylinder 7 - incorrect power balance

P0282 Injector 8 - low signal

P0283 Injector 8 - high signal

P0284 Cylinder 8 - incorrect power balance

P0285 Injector 9 - low signal

P0286 Injector 9 - high signal

P0287 Cylinder 9 - incorrect power balance

P0288 Injector 10 - low signal

P0289 Injector 10 - high signal

P0290 Cylinder 10 - incorrect power balance

P0291 Injector 11 - low signal

P0292 Injector 11 - high signal

P0293 Cylinder 11 - incorrect power balance

P0294 Injector 12 - low signal

P0295 Injector 12 - high signal

P0296 Cylinder 12 - incorrect power balance

P0297 Vehicle speed exceeded

P0298 Too high engine oil temperature

P0299 Turbocharger / supercharger drive - boost pressure low

P029A Fuel balance, cylinder 1 - maximum control limit reached

P029B Fuel Balance Cylinder 1 - Minimum Control Limit Reached

P029C Injector 1 - clogged

P029D Injector 1 - leakage

P029E Fuel Balance Cylinder 2 - Maximum Control Limit Reached

P029F Fuel Balance Cylinder 2 - Minimum Control Limit Reached

P02A0 Injector 2 - leakage

P02A1 Injector 2 - leak

P02A2 Fuel balance cylinder 3 - maximum control limit reached

P02A3 Fuel Balance Cylinder 3 - Minimum Control Limit Reached

P02A4 Injector 3 - leak

P02A5 Injector 3 - leakage

P02A6 Fuel balance, cylinder 4 - maximum control limit reached

P02A7 Fuel Balance Cylinder 4 - Minimum Control Limit Reached

P02A8 Injector 4 - leak

P02A9 Injector 4 - leak

P02AA Fuel Balance Cylinder 5 - Maximum Control Limit Reached

P02AB Fuel trim cylinder 5 - Minimum control limit reached

P02AC Cylinder 5 - injector leak

P02AD Injector 5 - leakage

P02AE Fuel trim cylinder 6 - Maximum control limit reached

P02AF Fuel Balance Cylinder 6 - Minimum Control Limit Reached

P02B0 Injector 6 - leakage

P02B1 Injector 6 - leakage

P02B2 Fuel balance, cylinder 7 - maximum control limit reached

P02B3 Fuel balance, cylinder 7 - minimum control limit reached

P02B4 Injector 7 - leak

P02B5 Injector 7 - leak

P02B6 Fuel balance, cylinder 8 - maximum control limit reached

P02B7 Fuel balance, cylinder 8 - minimum control limit reached

P02B8 Injector 8 - leak

P02B9 Injector 8 - leak

P02BA Fuel balance cylinder 9 - maximum control limit reached

P02BB Injector 9 - learning offset to minimum limit

P02BC Injector 9 - leak

P02BD Injector 9 - leak

P02BE Fuel trim cylinder 10 - Maximum control limit reached

P02BF Fuel balance cylinder 10 - minimum control limit reached

P02C0 Injector 10 - leakage

P02C1 Injector 10 - leakage

P02C2 Fuel balance, cylinder 11 - maximum control limit reached

P02C3 Fuel balance, cylinder 11 - minimum control limit reached

P02C4 Injector 11 - leak

P02C5 Injector 11 - leakage

P02C6 Fuel balance, cylinder 12 - maximum control limit reached

P02C7 Fuel trim cylinder 12 - Minimum control limit reached

P02C8 Injector 12 - clogged

P02C9 Injector 12 - leak

P02CA Turbocharger/Supercharger Drive B - Exceeded
boost pressure

P02CB Turbocharger/supercharger B - pressure too low
boost

P02CC Injector 1 - learning offset to minimum limit

P02CD Injector 1 - learning offset to maximum limit

P02CE Injector 2 - learning offset to minimum limit

P02CF Injector 2 - learning offset to maximum limit

P02D0 Injector 3 - learning offset to minimum limit

P02D1 Injector 3 - learning offset to maximum limit

P02D2 Injector 4 - learning offset to minimum limit

P02D3 Injector 4 - learning offset to maximum limit

P02D4 Injector 5 - learning offset to minimum limit

P02D5 Injector 5 - learning offset to maximum limit

P02D6 Injector 6 - learning offset to minimum limit

P02D7 Injector 6 - learning offset to maximum limit

P02D8 Injector 7 - learning offset to minimum limit

P02D9 Injector 7 - learning offset to maximum limit

P02DA Injector 8 - learning offset to minimum limit

P02DB Injector 8 - learning offset to maximum limit

P02DC Injector 9 - learning offset to minimum limit

P02DD Injector 9 - learning offset to maximum limit

P02DE Injector 10 - learning offset to minimum limit

P02DF Injector 10 - learning offset to maximum limit

P02E0 Variable geometry intake damper actuator - open circuit

P02E1 Variable geometry intake damper actuator - performance problems

P02E2 Variable geometry intake damper actuator - low
signal

P02E3 Variable geometry intake damper actuator - high
signal

P02E4 Variable geometry intake damper actuator - actuator stuck in
open position

P02E5 Variable geometry intake damper actuator - actuator stuck in
closed position

P02E6 Variable geometry intake damper actuator position sensor - circuit malfunction

P02E7 Variable geometry intake damper actuator position sensor circuit range/performance

P02E8 Variable geometry intake damper actuator position sensor - circuit low

P02E9 Variable geometry intake damper actuator position sensor - circuit high

P02EA Variable intake damper actuator position sensor
geometry - missing/chaotic signal

P02EB Intake manifold geometry actuator motor (Diesel) - circuit range/performance

P02EC Intake manifold geometry change actuator motor
(diesel) - high air consumption

P02ED Intake manifold geometry change actuator motor
(diesel) - low air consumption

P02EE Injector 1 circuit range/performance

P02EF Injector 2 - circuit range / performance

CODE	DECRYPTION
P02F0	Injector 3 - range / performance
P02F1	Injector 4 - circuit range / performance
P02F2	Injector 5 - circuit range/performance
P02F3	Injector 6 - circuit range/performance
P02F4	Injector 7 - circuit range/performance
P02F5	Injector 8 - circuit range/performance
P02F6	Injector 9 - circuit range/performance
P02F7	Injector 10 - circuit range/performance
P02F8	Injector 11 - circuit range/performance
P02F9	Injector 12 - circuit range/performance
P02FA	Intake manifold geometry change actuator position sensor (diesel) - operation of the minimum/maximum limiter discoveries

Ignition system and pass control system

ignition

CODE	DECRYPTION
P0300	Random/Multiple Misfires (Ignitions)
P0301	Cylinder 1 - misfire (ignition)
P0302	Cylinder 2 - misfire (ignition)
P0303	Cylinder 3 - misfire (ignition)
P0304	Cylinder 4 - misfire (ignition)
P0305	Cylinder 5 - misfire (ignition)
P0306	Cylinder 6 - misfire (ignition)

P0307 Cylinder 7 - misfire (ignition)

P0308 Cylinder 8 - misfire (ignition)

P0309 Cylinder 9 - misfire (ignition)

P0310 Cylinder 10 - misfire (ignition)

P0311 Cylinder 11 - misfire (ignition)

P0312 Cylinder 12 - misfire (ignition)

P0313 Misfire (ignition) - low fuel level

P0314 Misfire (ignition) in one cylinder - cylinder number is not
recognized

P0315 Crankshaft - no position change

P0316 Misfire (ignition) at start-up - first 1000 rpm

P0317 No data on the characteristics of road surface irregularities

P0318 Pavement condition sensor A - circuit malfunction

P0319 Pavement condition sensor B - circuit malfunction

P0320 Crankshaft position sensor / crankshaft speed sensor
shaft - electrical circuit malfunction

P0321 Crankshaft position sensor / crankshaft speed sensor
shaft - range/performance

P0322 Crankshaft position sensor / crankshaft speed sensor
shaft - no signal

P0323 Crankshaft position sensor / crankshaft speed sensor - unreliable contact of the
electrical circuit

P0324 Error in the knock control system

P0325 Knock sensor 1, bank 1 - circuit malfunction

P0326 Knock sensor 1, bank 1 - range / performance

P0327 Knock sensor 1, bank 1 - signal low

P0328 Knock sensor 1, bank 1 - high input

P0329 Knock sensor 1, bank 1 - circuit intermittent

P032A Knock sensor 3, bank 1 - circuit malfunction

P032B Knock sensor 3, bank 1 - circuit range/performance

P032C Knock sensor 3, bank 1 - circuit low

P032D Knock sensor 3, bank 1 - circuit high

P032E Knock sensor 3, bank 1 - intermittent signal

P0330 Knock sensor 2, bank 2 - circuit malfunction

P0331 Knock sensor 2, bank 2 - range / performance

P0332 Knock sensor 2, bank 2 - circuit low

P0333 Knock sensor 2, bank 2 - high input

P0334 Knock sensor 2, bank 2 - circuit malfunction

P0335 Crankshaft position sensor - circuit malfunction

P0336 Crankshaft position sensor - circuit range / performance

P0337 Crankshaft position sensor - low signal

P0338 Crankshaft position sensor - high signal

P0339 Crankshaft position sensor - unreliable electrical contact
chains

P033A Knock sensor 4, bank 2 - circuit malfunction

P033B Knock sensor 4, bank 2 - circuit range/performance

P033C Knock sensor 4, bank 2 - circuit low

P033D Knock sensor 4, bank 2 - circuit high

P033E Knock sensor 4, bank 2 - circuit intermittent

P0340 Camshaft position sensor A, bank 1 - circuit malfunction

P0341 Camshaft position sensor A, bank 1 - circuit range / performance

P0342 Camshaft position sensor A, bank 1 - low

signal

P0343 Camshaft position sensor A, bank 1 - high

input signal

P0344 Camshaft position sensor A, bank 1 - intermittent contact
electrical circuit

P0345 Camshaft position sensor A, bank 2 - circuit malfunction

P0346 Camshaft position sensor A, bank 2 - circuit range / performance

P0347 Camshaft position sensor A, bank 2 - low

signal

P0348 Camshaft position sensor A, bank 2 - high

signal

P0349 Camshaft position sensor A, bank 2 - intermittent contact
electrical circuit

P0350 Ignition coil, primary / secondary winding - electrical circuit malfunction

P0351 Ignition coil A, primary / secondary windings - electrical circuit malfunction

P0352 Ignition coil B, primary / secondary windings - electrical circuit malfunction

P0353 Ignition coil C, primary / secondary winding - electrical circuit malfunction

P0354 Ignition coil D, primary / secondary winding - electrical circuit malfunction

P0355 Ignition coil E, primary / secondary winding - electrical circuit malfunction

P0356 Ignition coil F, primary / secondary windings - electrical circuit malfunction

P0357 Ignition coil G primary/secondary - circuit malfunction

P0358 Ignition coil H primary/secondary - circuit malfunction

P0359 Ignition coil I, primary / secondary windings - electrical circuit malfunction

P0360 Ignition coil J primary/secondary - circuit malfunction

P0361 Ignition coil K, primary / secondary windings - electrical circuit malfunction

P0362 Ignition coil L, primary / secondary windings - electrical circuit malfunction

P0363 Misfire (ignition) - no fuel supply

P0365 Camshaft position sensor B, bank 1 - circuit malfunction

P0366 Camshaft position sensor B, bank 1 - range / performance

P0367 Camshaft position sensor B, bank 1 - low

signal

P0368 Camshaft Position Sensor B Bank 1 High

signal

P0369 Camshaft position sensor B, bank 1 - unreliable contact
electrical circuit

P0370 Phase Sync Reference High Resolution Signal A -
malfunction

P0371 Phase Sync Reference High Resolution Signal A Too
many impulses

P0372 Phase Sync Reference High Resolution Signal A Too
few impulses

P0373 Phase Sync Reference High Resolution Signal A - Random/Missing Pulses

P0374 Phase Sync Reference High Resolution Signal A - No
impulses

P0375 Phase Sync Reference High Resolution Signal B -
malfunction

P0376 Phase Sync Reference High Resolution Signal B Too
many impulses

P0377 Phase Sync Reference High Resolution Signal B Too
few impulses

P0378 Phase Sync Reference High Resolution Signal B - Random/Missing Pulses

P0379 Phase Sync Reference High Resolution Signal B - No
impulses

P037D Glow plug control - circuit malfunction

P037E Glow plug control - signal low

P037F Glow plug monitoring - signal high

P0380 Glow plugs, circuit A - malfunction

P0381 Glow plug indicator - circuit malfunction

P0382 Glow plugs, circuit B - malfunction

P0383 Glow plug control unit - signal low

P0384 Glow plug control unit - signal high

P0385 Crankshaft position sensor B - circuit malfunction

P0386 Crankshaft position sensor B - circuit range / performance

P0387 Crankshaft position sensor B - input low

P0388 Crankshaft position sensor B - high input

P0389 Crankshaft position sensor B - unreliable electrical contact
chains

P0390 Camshaft position sensor A B, bank 2 - malfunction
electrical circuit

P0391 Camshaft position sensor B, bank 2 - range / performance

P0392 Camshaft position sensor B, bank 2 - low
input signal

P0393 Camshaft position sensor B, bank 2 - high
input signal

P0394 Camshaft position sensor B, bank 2 - intermittent contact
electrical circuit

P0395 Cylinder pressure sensor, cylinder 1 - circuit malfunction

P0396 Cylinder pressure sensor, cylinder 1 - range / performance

P0397 Cylinder pressure sensor, cylinder 1 - circuit low

P0398 Cylinder pressure sensor, cylinder 1 - circuit high

P0399 Cylinder pressure sensor, cylinder 1 - intermittent / intermittent contact
electrical circuit

P039A Cylinder 1 pressure too low

P039B Cylinder 1 pressure too high

P039C Cylinder 1 - low pressure change

P039D Cylinder 1 - high pressure change

P039E Cylinder 1 - combustion process

P039F Cylinder pressure sensor, cylinder 2 - circuit malfunction

P03A0 Cylinder pressure sensor, cylinder 2 - circuit range/performance

P03A1 Cylinder pressure sensor, cylinder 2 - circuit low

P03A2 Cylinder pressure sensor, cylinder 2 - circuit high

P03A3 Cylinder pressure sensor, cylinder 2 - intermittent / intermittent contact
electrical circuit

P03A4 Cylinder 2 - pressure too low

P03A5 Cylinder 2 - pressure too high

P03A6 Cylinder 2 - low pressure change

P03A7 Cylinder 2 - high pressure change

P03A8 Cylinder 2 - combustion process

P03A9 Cylinder pressure sensor, cylinder 3 - circuit malfunction

P03AA Cylinder pressure sensor, cylinder 3 circuit range/performance

P03AB Cylinder pressure sensor, cylinder 3 - circuit low

P03AC Cylinder pressure sensor, cylinder 3 circuit high

P03AD Cylinder pressure sensor, cylinder 3 - intermittent/erratic contact
electrical circuit

P03AE Cylinder 3 pressure too low

P03AF Cylinder 3 pressure too high

P03B0 Cylinder 3 - low pressure change

P03B1 Cylinder 3 - high pressure change

P03B2 Cylinder 3 - combustion process

P03B3 Cylinder pressure sensor, cylinder 4 - circuit malfunction

P03B4 Cylinder pressure sensor, cylinder 4 - circuit range/performance

P03B5 Cylinder pressure sensor, cylinder 4 - circuit low

P03B6 Cylinder pressure sensor, cylinder 4 - circuit high

P03B7 Cylinder pressure sensor, cylinder 4 - intermittent / intermittent contact
electrical circuit

P03B8 Cylinder 4 - pressure too low

P03B9 Cylinder 4 - pressure too high

P03BA Cylinder 4 - low pressure change

P03BB Cylinder 4 - high pressure change

P03BC Cylinder 4 - combustion process

P03BD Cylinder pressure sensor, cylinder 5 - circuit malfunction

P03BE Cylinder pressure sensor, cylinder 5 - circuit range/performance

P03BF Cylinder pressure sensor, cylinder 5 - circuit low

P03C0 Cylinder pressure sensor, cylinder 5 - circuit high

P03C1 Cylinder pressure sensor, cylinder 5 - intermittent / intermittent contact
electrical circuit

P03C2 Cylinder 5 - pressure too low

P03C3 Cylinder 5 - pressure too high

P03C4 Cylinder 5 - low pressure change

P03C5 Cylinder 5 - high pressure change

P03C6 Cylinder 5 - combustion process

P03C7 Cylinder pressure sensor, cylinder 6 - circuit malfunction

P03C8 Cylinder pressure sensor, cylinder 6 - circuit range/performance

P03C9 Cylinder pressure sensor, cylinder 6 - circuit low

P03CA Cylinder pressure sensor, cylinder 6 - circuit high

P03CB Cylinder pressure sensor, cylinder 6 - intermittent/erratic contact
electrical circuit

P03CC Cylinder 6 pressure too low

P03CD Cylinder 6 pressure too high

P03CE Cylinder 6 - low pressure change

P03CF Cylinder 6 - high pressure change

P03D0 Cylinder 6 - combustion process

P03D1 Cylinder pressure sensor, cylinder 7 - circuit malfunction

P03D2 Cylinder pressure sensor, cylinder 7 - circuit range/performance

P03D3 Cylinder pressure sensor, cylinder 7 - circuit low

P03D4 Cylinder pressure sensor, cylinder 7 - circuit high

P03D5 Cylinder pressure sensor, cylinder 7 - intermittent / intermittent contact
electrical circuit

P03D6 Cylinder 7 - pressure too low

P03D7 Cylinder 7 pressure too high

P03D8 Cylinder 7 - low pressure change

P03D9 Cylinder 7 - high pressure change

P03DA Cylinder 7 - combustion process

P03DB Cylinder pressure sensor, cylinder 8 - circuit malfunction

P03DC Cylinder pressure sensor, cylinder 8 - circuit range/performance

P03DD Cylinder pressure sensor, cylinder 8 - circuit low

P03DE Cylinder pressure sensor, cylinder 8 circuit high

CODE	DECRYPTION
P03DF	Cylinder pressure sensor, cylinder 8 - intermittent/erratic contact electrical circuit
P03E0	Cylinder 8 - pressure too low
P03E1	Cylinder 8 - pressure too high
P03E2	Cylinder 8 - low pressure change
P03E3	Cylinder 8 - high pressure change
P03E4	Cylinder 8 - combustion process

Auxiliary emission control systems

CODE	DECRYPTION
P0400	Exhaust gas recirculation (EGR) system - channel malfunction systems
P0401	Exhaust gas recirculation (EGR) system - insufficient level recycling
P0402	Exhaust gas recirculation (EGR) system - excessive level recycling
P0403	Exhaust gas recirculation (EGR) system - electrical circuit malfunction
P0404	Exhaust gas recirculation (EGR) system - range / functioning
P0405	Exhaust gas recirculation (EGR) valve position sensor A - low signal level
P0406	Exhaust gas recirculation (EGR) valve position sensor A - high signal level
P0407	Exhaust gas recirculation (EGR) valve position sensor B - low input level

P0408 Exhaust gas recirculation (EGR) valve position sensor B - high
input level

P0409 Exhaust gas recirculation (EGR) sensor A - malfunction
electrical circuit

P040A Exhaust gas temperature sensor A in the exhaust gas recirculation (EGR) system -
circuit malfunction

P040B Exhaust gas temperature sensor A in the exhaust gas recirculation (EGR) system -
range/performance

P040C Exhaust Gas Temperature Sensor A - Exhaust Gas Recirculation (EGR) Circuit Low

P040D Exhaust gas temperature sensor A in the exhaust gas recirculation (EGR) system -
circuit high

P040E Exhaust gas temperature sensor A in the exhaust gas recirculation (EGR) system -
fading/chaotic signal

P040F Sensor A / B exhaust gas temperature in the exhaust gas recirculation system (EGR)
- correlation

P0410 Exhaust air supply system - malfunction

P0411 Exhaust air supply system - incorrect flow

P0412 E / m valve A air supply to the outlet - a malfunction of the electrical circuit

P0413 E / m valve A air supply to the outlet - open circuit

P0414 E / m valve A air supply to the outlet - short circuit

P0415 Solenoid valve B exhaust air supply - circuit malfunction

P0416 E / m valve B air supply to the outlet - open circuit

P0417 E / m valve B air supply to the outlet - short circuit in the circuit

P0418 Exhaust air pump A relay - circuit malfunction

P0419 Exhaust air pump relay B - circuit malfunction

P041A Exhaust gas temperature sensor B in the exhaust gas recirculation (EGR) system - circuit malfunction

P041B Exhaust gas temperature sensor B in the exhaust gas recirculation (EGR) system - range/performance

P041C Exhaust gas temperature sensor B in the exhaust gas recirculation (EGR) system - circuit low

P041D Exhaust gas temperature sensor B in the exhaust gas recirculation (EGR) system - signal high

P041E Exhaust gas temperature sensor B in the exhaust gas recirculation (EGR) system - fading/chaotic signal

P041F Switching solenoid valve A for air supply to the outlet - low level
signal

P0420 Catalytic converter, bank 1 - efficiency below the required

P0421 Catalytic converter warm-up, bank 1 - efficiency below the required

P0422 Primary catalytic converter, bank 1 - efficiency below the required

P0423 Heated catalytic converter, bank 1 - efficiency below
required

P0424 Heated catalytic converter, bank 1 - efficiency below
required

P0425 Catalytic Converter Temperature Sensor Bank 1

P0426 Catalytic converter temperature sensor, bank 1 - range /
functioning

P0427 Catalytic converter temperature sensor, bank 1 - low
signal

P0428 Catalytic converter temperature sensor, bank 1 - high
input level

P0429 Catalytic converter heater, bank 1 - circuit malfunction

P042A Catalytic converter temperature sensor 2, bank 1 - circuit malfunction

P042B Catalytic converter temperature sensor 2, bank 1 - circuit range/
functioning

P042C Catalytic converter temperature sensor 2, bank 1 - low
signal level

P042D Catalytic converter temperature sensor 2, bank 1 - high
signal level

P042E Exhaust gas recirculation (EGR) valve A actuator - stuck
actuator in open position

P042F Exhaust gas recirculation (EGR) valve A actuator - stuck
actuator in closed position

P0430 Catalytic Converter Bank 2 Efficiency Less Than Required

P0431 Catalytic converter warm-up, bank 2 - efficiency below the required

P0432 Primary catalytic converter, bank 2 - efficiency below the required

P0433 Heated catalytic converter, bank 2 - efficiency below
required

P0434 Heated catalytic converter, bank 2 - temperature below the required

P0435 Catalytic Converter Temperature Sensor Bank 2

P0436 Catalytic converter temperature sensor, bank 2 - range /
functioning

P0437 Catalytic converter temperature sensor, bank 2 - low
input signal

P0438 Catalytic converter temperature sensor, bank 2 - high
input level

P0439 Catalytic converter heater, bank 2 - circuit malfunction

P043A Catalytic converter temperature sensor 2, bank 2 - circuit malfunction

P043B Catalytic converter temperature sensor 2, bank 2 - circuit range/
functioning

P043C Catalytic converter temperature sensor 2, bank 2 - low
signal level

P043D Catalytic converter temperature sensor 2, bank 2 - high
signal level

P043E Evaporative emission system leak detection pilot jet - flow low

P043F Pilot jet for leak detection in the vapor recovery system
fuel - excessive consumption

P0440 Evaporative emission system - malfunction

P0441 Evaporative emission system - incorrect flow

P0442 Evaporative emission system - minor leak

P0443 E / m valve of the accumulator of fuel vapor - a malfunction of the electrical circuit

P0444 E / m valve of the fuel vapor accumulator - open circuit

P0445 E / m fuel vapor accumulator valve - short circuit

P0446 Evaporative emission control system, purge control - malfunction
electrical circuit

P0447 Evaporative emission system, purge control - open circuit

P0448 Evaporative Emission Control System Purge Control Short
closure

P0449	Evaporative emission system, purge control valve - circuit malfunction
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P044A	Exhaust gas recirculation (EGR) sensor C - malfunction electrical circuit
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P044B	Exhaust gas recirculation (EGR) sensor C - circuit range/performance
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P044C	Exhaust gas recirculation (EGR) sensor C - low signal
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P044D	Exhaust gas recirculation (EGR) sensor C - high signal
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P044E	Exhaust gas recirculation (EGR) sensor C - intermittent / chaotic signal
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P044F	Switching solenoid valve A for air supply to the outlet - high signal
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P0450	Evaporative emission system pressure sensor - circuit malfunction
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P0451	Evaporative emission system pressure sensor circuit range/performance
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P0452	Evaporative emission system pressure sensor - low signal
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P0453	Evaporative emission system pressure sensor - high signal
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P0454	Evaporative emission system pressure sensor - unreliable contact electrical circuit
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P0455	Evaporative emission system - significant leak
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P0456	Evaporative emission system - extremely minor leak
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P0457	Evaporative emission system - leak (loose or open cover fuel filler neck)
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P0458	Evaporative emission control system, fuel vapor accumulator valve - circuit low
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P0459	Evaporative emission control system, fuel vapor accumulator valve - circuit high
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P045A	Exhaust gas recirculation (EGR) valve B actuator - circuit malfunction
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P045B	Exhaust gas recirculation (EGR) valve B - circuit range/performance
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P045C	Exhaust gas recirculation (EGR) valve actuator B - low signal level
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P045D	Exhaust gas recirculation (EGR) valve actuator B - high signal level
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P045E	Exhaust gas recirculation (EGR) B valve actuator - actuator stuck in open position
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P045F	Exhaust gas recirculation (EGR) valve B - valve stuck in closed position
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P0460	Fuel level sensor - electrical circuit malfunction
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P0461	Fuel level sensor - circuit range / performance
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P0462	Fuel level sensor - low signal
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P0463	Fuel level sensor - high input
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P0464	Fuel level sensor - unreliable contact of the electrical circuit
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P0465	Fuel vapor accumulator flow sensor - circuit malfunction
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P0466	Fuel vapor accumulator flow sensor - range / functioning
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P0467	Flow sensor through the fuel vapor accumulator - low signal
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P0468	Flow sensor through the fuel vapor accumulator - high signal
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P0469 Flow sensor through the fuel vapor accumulator - unreliable contact of the electrical circuit

P046A Catalytic converter temperature sensor 1/2, bank 1 - correlation

P046B Catalytic converter temperature sensor 1/2, bank 2 - correlation

P046C Exhaust gas recirculation (EGR) valve position sensor A - range / functioning

P046D Exhaust gas recirculation (EGR) sensor A - intermittent / chaotic signal

P046E Exhaust gas recirculation (EGR) sensor B - circuit range/performance

P046F Exhaust gas recirculation (EGR) sensor B - intermittent / chaotic signal

P0470 Exhaust gas pressure sensor - circuit malfunction

P0471 Exhaust gas pressure sensor - range / performance

P0472 Exhaust gas pressure sensor - low signal

P0473 Exhaust Gas Pressure Sensor - High Input

P0474 Exhaust gas pressure sensor - unreliable electrical contact chains

P0475 Exhaust gas pressure control valve - circuit malfunction

P0476 Exhaust gas pressure control valve - range / performance

P0477 Exhaust gas pressure control valve - signal low

P0478 Exhaust pressure control valve - high input signal

P0479 Exhaust gas pressure control valve - unreliable contact electrical circuit

P047A Exhaust gas pressure sensor B - circuit malfunction

P047B Exhaust gas pressure sensor B circuit range/performance

P047C Exhaust gas pressure sensor B - circuit low

P047D Exhaust gas pressure sensor B - signal high

P047E Exhaust gas pressure sensor B - intermittent / erratic signal

P047F Exhaust pressure control valve - valve stuck open
position

P0480 Cooling fan motor 1 - circuit malfunction

P0481 Cooling fan motor 2 - circuit malfunction

P0482 Cooling fan motor 3 - circuit malfunction

P0483 Cooling Fan Motor Normal Test -
malfunction

P0484 The cooling fan motor - exceeding the permissible
current in the circuit

P0485 Cooling fan motor power/ground -
electrical circuit malfunction

P0486 Valve position sensor B of the exhaust gas recirculation (EGR) system - malfunction
electrical circuit

P0487 Exhaust gas recirculation (EGR) system, position control
throttle valve - electrical circuit malfunction

P0488 Exhaust gas recirculation (EGR) throttle position control - range/performance
problems

P0489 Exhaust gas recirculation (EGR) system - circuit low voltage

P048A Exhaust control actuator - actuator stuck closed

P048B Exhaust control actuator position sensor/switch -
electrical circuit malfunction

P048C Exhaust control actuator position sensor/switch -
range/performance

P048D Exhaust gas pressure control valve position sensor/switch - circuit low

P048E Exhaust gas pressure control valve position sensor/switch - circuit high

P048F Exhaust actuator position sensor/switch intermittent/erratic signal

P0490 Exhaust gas recirculation (EGR) system - circuit high voltage

P0491 Exhaust air supply system, bank 1 - malfunction

P0492 Exhaust air supply system, bank 2 - malfunction

P0493 System fan motor overspeed
cooling (clutch lock)

P0494 Cooling fan motor - low speed

P0495 Cooling fan motor - high speed

P0496 Evaporative Emission System - Purge Flow High

P0497 Evaporative Emission System - Purge Flow Low

P0498 Evaporative emission control system purge control - low
signal

P0499 Evaporative emission control system purge control - high
signal level

P049A Exhaust gas recirculation (EGR) valve actuator B - flow problems

P049B System B exhaust gas recirculation (EGR) - insufficient level
recycling

P049C Exhaust gas recirculation (EGR) valve actuator B - excessive flow

P049D Valve actuator A of the exhaust gas recirculation (EGR) system - upper limit exceeded learning limit

P049E Valve actuator In the exhaust gas recirculation system (EGR) - the top is exceeded learning limit

P049F Exhaust pressure control valve B

P04A0 Exhaust pressure control valve B circuit range/performance

P04A1 Exhaust pressure control valve B - circuit low

P04A2 Exhaust pressure control valve B - circuit high
signal

P04A3 Exhaust gas pressure control valve B - poor contact
electrical circuit

P04A4 Exhaust pressure control valve B - valve stuck in
open position

P04A5 Exhaust pressure control valve B - valve stuck in
closed position

P04A6 Exhaust pressure control valve position sensor/switch B - circuit
malfunction

P04A7 Pressure control valve position sensor/switch B
exhaust gases - range / performance

P04A8 Pressure control valve position sensor/switch B
exhaust gases - low signal level

P04A9 Exhaust pressure control valve position sensor/switch B - circuit high

P04AA Pressure control valve position sensor/switch B
exhaust gases - unreliable / missing contact of the electrical circuit

P04AB Evaporative accumulator solenoid valve B - open circuit

CODE	DECRYPTION
P04AC	Evaporative accumulator solenoid valve B - circuit low
P04AD	Evaporative accumulator solenoid valve B - circuit high
P04AE	Evaporative accumulator B solenoid valve - malfunction / sticking valve in open position
P04AF	EVAP valve B - valve stuck closed position
P04B0	Fuel vapor control valve when refueling - open circuit
P04B1	Fuel vapor control valve when refueling - circuit low
P04B2	Fuel vapor control valve when refueling - circuit high
P04B3	Fuel vapor control valve when refueling - performance / valve stuck open
P04B4	Fuel vapor control valve when refueling - valve stuck closed position
P04B5	Fuel filler hatch/cap - stuck open position
P04B6	Fuel filler flap/cap - stuck closed position
P04B7	Fuel filler cap sensor/switch - circuit intermittent/erratic
P04B8	Fuel filler cap sensor/switch - malfunction electrical circuit
P04B9	Fuel filler cap sensor/switch - low signal
P04BA	Fuel filler cap sensor/switch high signal
P04BB	Fuel filler cap lock control (lock) - open circuit chains

P04BC Fuel filler cap lock control (lock) -
range/performance

P04BD Fuel filler cap lock control (lock) - low
signal level

P04BE Fuel filler cap lock control (lock) -
high signal level

P04BF Fuel filler cap lock control (unlock) - open circuit
chains

P04C0 Fuel filler cap lock control (unlock) -
range/performance

P04C1 Fuel filler cap lock control (unlock) - low
signal level

P04C2 Fuel filler cap lock control (unlock) -
high signal level

P04C3 Fuel filler cap lock sensor/switch - circuit malfunction

P04C4 Fuel filler cap lock sensor/switch - circuit range/
functioning

P04C5 Fuel filler cap lock sensor/switch - low
signal level

P04C6 Fuel filler cap lock sensor/switch - high
signal level

P04C7 Fuel filler cap lock sensor/switch - circuit intermittent/erratic

P04C8 Fuel filler cap open sensor/switch -
electrical circuit malfunction

P04C9 Fuel filler cap open sensor/switch -
functioning / sticking in the off state

P04CA Fuel filler cap open sensor/switch -
constantly low signal level

P04CB Fuel filler cap open sensor/switch - constantly high signal level

P04CC Fuel filler cap open sensor/switch - intermittent/erratic signal
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P04CD Fuel filler cap open sensor/switch - stuck on

P04CE Exhaust gas recirculation (EGR) temperature sensor C - electrical circuit malfunction

P04CF Exhaust gas recirculation (EGR) temperature sensor C - electrical circuit malfunction

P04D0 Exhaust gas recirculation (EGR) temperature sensor C - circuit low
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P04D1 Exhaust gas recirculation (EGR) temperature sensor C - high signal level
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P04D2 Exhaust gas recirculation (EGR) temperature sensor C - intermittent / erratic signal
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P04D3 Exhaust brake - input circuit malfunction

P04D4 Exhaust brake - input circuit range/performance

P04D5 Exhaust brake - input circuit low

P04D6 Exhaust brake - input circuit high
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P04D7 Exhaust brake - unreliable / intermittent contact of the electrical circuit

P04D8 Exhaust gas recirculation (EGR) system control - time exceeded to enter the feedback mode

P04D9 Exhaust gas recirculation (EGR) control (operating mode closed-loop), control limit reached - low flow
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P04DA Exhaust Gas Recirculation (EGR) Control (Closed Loop Mode) Control Limit Reached High Flow
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P04DB Crankcase ventilation system disconnected

Vehicle speed control, idle system and other systems

CODE	DECRYPTION
P0500	Vehicle speed sensor - circuit malfunction
P0501	Vehicle speed sensor - range / performance
P0502	Vehicle speed sensor - signal low
P0503	Vehicle speed sensor - signals chaotic / intermittent / high level
P0504	A / B brake light switch (brake pedal position sensor) - correlation
P0505	Idle speed control system - malfunction
P0506	Idle speed control system - speed below acceptable
P0507	Idle speed control system - speed above acceptable
P0508	Idle Air Bypass Control - Circuit Low
P0509	Air bypass control at idle - signal high
P050A	Idle air control valve, cold start - functioning problems
P050B	Ignition timing, cold start - performance problems
P050C	Coolant temperature sensor, cold start - performance problem
P050D	Rough idle after cold start
P050E	Exhaust gas temperature, cold start - out of range
P050F	Brake booster system pressure sensor - low
P0510	Throttle closed position sensor - circuit malfunction

P0511 Air bypass control at idle - circuit malfunction

P0512 Starter control circuit - malfunction

P0513 Incorrect immobilizer key (wrong code)

P0514 Battery Temperature Sensor Circuit Range/Performance

P0515 Battery temperature sensor - electrical malfunction
chains

P0516 Battery temperature sensor - circuit low voltage

P0517 Battery temperature sensor - circuit high voltage

P0518 Air bypass control at idle - unreliable contact of the electrical circuit

P0519 Idle Air Bypass Control - Performance

P051A Crankcase gas pressure sensor - circuit malfunction

P051B Crankcase pressure sensor circuit range/performance

P051C Crankcase pressure sensor - signal low

P051D Crankcase pressure sensor - high signal

P051E Crankcase gas pressure sensor - unreliable contact of the electrical circuit

P051F Forced crankcase ventilation valve - filter clogged
ventilation systems

P0520 Engine oil pressure sensor - circuit malfunction

P0521 Engine Oil Pressure Sensor Circuit Range/Performance

P0522 Engine oil pressure sensor - voltage low

P0523 Engine oil pressure sensor - high voltage

P0524 Engine oil pressure too low

CODE	DECRYPTION
P0525	Cruise control system, drive control - range/performance
P0526	Cooling fan motor, speed sensor - electrical circuit malfunction
P0527	Cooling fan motor, speed sensor - range/performance
P0528	Cooling fan motor, speed sensor - no signal
P0529	Cooling fan motor, speed sensor - unreliable contact of the electrical circuit
P052A	Camshaft position - cold start, bank 1 - forward adjustment
P052B	Camshaft position - cold start, bank 1 - overshoot in the direction of delay
P052C	Camshaft position - cold start, bank 2 - forward adjustment
P052D	Camshaft position - cold start, bank 2 - overshoot in the direction of delay
P052E	Crankcase ventilation system regulator - performance
P052F	Glow plug control unit - incorrect voltage
P0530	Air conditioning refrigerant pressure sensor - malfunction electrical circuit
P0531	A/C refrigerant pressure sensor circuit range/performance
P0532	Air conditioning refrigerant pressure sensor - low signal
P0533	Air conditioning refrigerant pressure sensor - high input signal
P0534	Lack of refrigerant in the air conditioning system

P0535 Temperature sensor behind the evaporator (air conditioner) - electrical circuit malfunction

P0536 Evaporator downstream temperature sensor (A/C) - circuit range/performance

P0537 Temperature sensor behind the evaporator of the air conditioning system - low signal level

P0538 Temperature sensor behind the evaporator of the air conditioning system - high signal level

P0539 Temperature sensor behind the evaporator of the air conditioning system - unreliable contact of the electrical circuit

P053A Crankcase ventilation breather heater - open circuit

P053B Crankcase breather heater - circuit low

P053C Crankcase ventilation breather heater - circuit high

P053D Crankcase ventilation breather heater - performance

P053F Cold start fuel pressure - performance

P0540 Intake air heater A - circuit malfunction

P0541 Intake air heater A - circuit low voltage

P0542 Intake air heater A - circuit high voltage

P0543 Intake air heater A - open circuit

P0544 Exhaust gas temperature sensor 1, bank 1 - circuit malfunction

P0545 Exhaust gas temperature sensor 1, bank 1 - low input signal

P0546 Exhaust gas temperature sensor 1, bank 1 - input high signal

P0547 Exhaust gas temperature sensor 1, bank 2 - circuit malfunction

CODE	DECRYPTION
P0548	Exhaust gas temperature sensor 1, bank 2 - circuit low
P0549	Exhaust gas temperature sensor 1, bank 2 - circuit high
P054A	Camshaft position sensor B, cold start - forward adjustment
P054B	Camshaft position sensor B, cold start - overshoot in the direction of delay
P054C	Camshaft position sensor B, cold start - forward adjustment
P054D	Camshaft position sensor B, cold start - overshoot in the direction of delay
P054E	Idle speed control - fuel supply less than required
P054F	Idle speed control - fuel supply more than required
P0550	Power steering pressure sensor/switch - electrical circuit malfunction
P0551	Power steering pressure switch - range / functioning
P0552	Power steering pressure sensor/switch - low signal level
P0553	Power steering pressure sensor/switch - high signal level
P0554	Power steering pressure sensor/switch - circuit intermittent
P0555	Pressure sensor in the brake booster system - malfunction electrical circuit
P0556	Brake booster system pressure sensor circuit range/performance

P0557 Pressure sensor in the brake booster system - low

signal

P0558 Brake booster system pressure sensor - high

input signal

P0559 Pressure sensor in the brake booster system - unreliable

electrical circuit contact

P055A Engine oil pressure sensor B - circuit malfunction

P055B Engine oil pressure sensor B - circuit range/performance

P055C Engine oil pressure sensor B - circuit low

P055D Engine oil pressure sensor B - circuit high

P0560 System voltage (on-board network) - malfunction

P0561 System voltage (on-board network) - instability

P0562 System voltage (on-board network) - low

P0563 System voltage (on-board network) - high

P0564 Cruise control system, multifunction switch (input signal A) - circuit malfunction

P0565 The main switch of the cruise control system (cruise control),
signal ON - malfunction

P0566 The main switch of the cruise control system (cruise control),
signal OFF - malfunction

P0567 Cruise control mode selection switch
(cruise control), RESUME signal - malfunction

P0568 The main switch of the cruise control system (cruise control),
SET signal - malfunction

P0569 Cruise control mode selection switch
(cruise control), COAST signal - malfunction

P056A Incorrect signal to increase the distance of the cruise control system

P056B Incorrect signal to reduce the distance of the cruise control system

P056C Cruise control system, shutdown signal

P0570 Cruise control system, position sensor signal
accelerator pedal - malfunction

P0571 Brake pedal switch A (cruise control system) - circuit malfunction

P0572 Brake pedal switch A (cruise control system) - signal low

P0573 Limit switch A brake pedal (cruise control system) - high signal

P0574 Cruise control system - speed too high
car

P0575 Cruise control system - circuit malfunction
input signal

P0576 Cruise control system - low input
signal

P0577 Cruise control system - high input
signal

P0578 Cruise control system, multifunction
switch (input signal A) - circuit blocked

P0579 Cruise control system, multifunction
switch (input signal A) - range / performance

P057A Brake pedal position sensor - open circuit

P057B Brake pedal position sensor circuit range/performance

P057C Brake pedal position sensor - circuit low

P057D Brake pedal position sensor - circuit high

P057E Brake pedal position sensor - circuit intermittent/intermittent

CODE	DECRYPTION
P0580	Cruise control system, multifunction switch (input signal A) - low signal level
P0581	Cruise control system, multi-function switch (input signal A) - signal high
P0582	Cruise control system, vacuum control - open circuit
P0583	Cruise control system, vacuum control - circuit low voltage
P0584	Cruise control system, vacuum control - high voltage circuit
P0585	Cruise control system, multi-function switch (A/B input) - correlation
P0586	Cruise control system, purge control - open circuit
P0587	Cruise control system, purge control - circuit low voltage
P0588	Cruise control system, purge control - high voltage circuit
P0589	Cruise control system, multi-function switch (input signal B) - circuit malfunction
P0590	Cruise control system, multifunction switch (input signal B) - circuit malfunction (lockup)
P0591	Cruise control system (cruise control) multifunction switch (input signal B) - circuit range / performance
P0592	Cruise control system, multifunction switch (input signal B) - low signal level
P0593	Cruise control system, multi-function switch (input signal B) - circuit high

CODE	DECRYPTION
P0594	Cruise control system, drive control - open circuit
P0595	Cruise control system, drive control - signal low
P0596	Cruise control system, drive control - high signal level
P0597	Thermostat heater control system - open circuit
P0598	Thermostat heater control system - circuit low voltage
P0599	Thermostat heater control system - circuit high voltage

ECM / PCM / TCM control units and other systems

CODE	DECRYPTION
P0600	CAN data bus - malfunction
P0601	Electronic engine control unit - checksum error memory
P0602	Electronic engine control unit - programming error
P0603	Electronic engine control unit - KAM memory error
P0604	Electronic engine control unit - RAM memory error
P0605	Engine control unit - ROM memory error
P0606	Engine control module (ECM) / powertrain control module (PCM) - processor malfunction
P0607	Electronic engine control unit - performance
P0608	Engine control module, vehicle speed sensor (output signal A) - malfunction
P0609	Engine control module, vehicle speed sensor (output signal B) - malfunction

P060A Electronic engine control unit, performance problems
monitoring processor

P060B Electronic engine control unit, ADC performance

P060C Engine control module, performance problems
main processor

P060D Engine control module, accelerator pedal position -
functioning

P060E Engine control module, throttle position
- functioning

P060F Engine control module coolant temperature - performance problem

P0610 Electronic engine control unit - vehicle option error

P0611 Fuel injector control module - performance

P0612 Fuel injector control module - relay control circuit

P0613 Transmission control module (TCM) - processor error

P0614 Engine control module (ECM) / transmission control module (TCM) -
mismatch

P0615 Starter relay - circuit malfunction

P0616 Starter relay - low

P0617 Starter relay - high

P0618 Alternative fuel control module - KAM memory error

P0619 Alternative fuel control unit - memory error
RAM/ROM

P061A Engine control module, engine torque -
functioning problems

P061B Engine control module, engine torque calculation - performance problems

P061C Engine control module, engine speed -
functioning problems

P061D Engine control module, engine air flow -
functioning problems

P061E Engine control module, brake light switch
(brake pedal position sensor) - operation

P061F Engine control module, throttle actuator controller
shutters - operation

P0620 Generator control - electrical circuit malfunction

P0621 Charging indicator - electrical circuit malfunction

P0622 Generator, field winding control - electrical malfunction
chains

P0623 Charging indicator, control - electrical circuit malfunction

P0624 Filler cap open indicator, control - electrical circuit malfunction

P0625 Generator excitation output - low signal

P0626 Generator field winding output - high signal

P0627 Fuel pump control - open circuit

P0628 Fuel pump control - signal low

P0629 Fuel pump control - high signal

P062A Fuel pump A - control circuit range / performance

P062B Engine control module, fuel injection control -
functioning problems

P062C Engine control module, vehicle speed - performance

P062D Injector control module, bank 1 - performance problems

P062E Injector control module, bank 2 - performance problems

P062F Electronic engine control unit - EEPROM error

P0630 VIN not programmed or not suitable - ECM/PCM

P0631 The automatic transmission electronic control unit is not programmed
or does not match the vehicle identification number

P0632 Odometer Not Programmed - ECM/PCM

P0633 Immobilizer key not programmed - ECM/PCM

P0634 Powertrain/engine/gearbox control module
(PCM/ECM/TCM) - high internal temperature

P0635 Power steering control - electrical malfunction
chains

P0636 Power steering control - signal low

P0637 Power steering control - signal high

P0638 Throttle Actuator Control Bank 1 Range/Performance

P0639 Throttle Actuator Control Bank 2 Range/Performance

P063A Generator voltage monitoring - circuit malfunction

P063B Generator voltage monitoring - circuit range/performance

P063C Generator voltage monitoring - circuit low

P063D Generator voltage monitoring - signal high

P063E Throttle control module, automatic configuration - no
input signal

P063F Coolant temperature sensor, automatic configuration -
no input signal

P0640 Intake air heating control - electrical malfunction

chains

P0641 Sensor reference voltage A - open circuit

P0642 Sensor reference voltage A - signal low

P0643 Sensor reference voltage A - high signal

P0644 Driver display, communication (serial) - circuit malfunction

P0645 Air conditioning compressor electromagnetic clutch relay - malfunction
electrical circuit

P0646 Air conditioning compressor electromagnetic clutch relay - low

signal

P0647 Air conditioning compressor electromagnetic clutch relay - high

signal

P0648 Immobilizer indicator, control - circuit malfunction

P0649 Indicator of the cruise control system, control -
circuit malfunction

P064A Fuel pump control unit - malfunction

P064B Power take-off control unit - malfunction

P064C Glow plug control unit - malfunction

P064D Engine control module, heated oxygen sensor processor, bank 1 - performance
problems

P064E Engine control module, oxygen sensor processor,
bank 2 - functioning problems

P064F Unauthorized software - use of non-original calibration equipment detected

P0650 Malfunction indicator (MIL), control - electrical malfunction

chains

P0651 Sensor reference voltage B - open circuit

P0652 Sensor reference voltage B - low

P0653 Sensor reference voltage B - circuit high voltage

P0654 Engine speed, output signal - electrical circuit malfunction

P0655 Engine overheating indicator - electrical circuit malfunction

P0656 Fuel level indication - electrical circuit malfunction

P0657 Drive supply voltage - open circuit

P0658 Drive supply voltage - circuit low voltage

P0659 Drive supply voltage - circuit high voltage

P065A Generator - performance

P065B Generator - control circuit range / performance

P065C Generator - mechanical fault/performance

P065D Recovery system malfunction indicator - circuit malfunction

P065E Intake manifold geometry control actuator, bank 1 - performance problems

P065F Intake manifold geometry control actuator, bank 2 - performance

P0660 Solenoid valve of the intake manifold geometry control system, bank 1 - open circuit

P0661 Intake manifold geometry control solenoid valve, bank 1 - circuit low

P0662 Solenoid valve for the intake manifold geometry change system, bank 1 - high signal level

P0663 E / m valve of the intake manifold geometry change system, bank 2 - open circuit

P0664 Intake manifold geometry control solenoid valve, bank 2 - circuit low

P0665 Intake manifold geometry control solenoid valve, bank 2 - high signal level

P0666 Engine/Transmission/Powertrain Control Module (ECM/PCM/TCM) internal temperature sensor - circuit malfunction

P0667 Internal temperature sensor of the electronic engine control unit / Transmission/Powertrain (ECM/PCM/TCM) Range/Performance

P0668 Internal temperature sensor of the electronic engine control unit / Transmission/Powertrain (ECM/PCM/TCM) - Signal Low

P0669 Engine/Transmission/Powertrain (ECM/PCM/TCM) Internal Temperature Sensor - Circuit High

P066A Glow plug, cylinder 1 - signal low

P066B Glow plug, cylinder 1 - signal high

P066C Glow plug, cylinder 2 - circuit low

P066D Glow plug, cylinder 2 - circuit high

P066E Glow plug, cylinder 3 - circuit low

P066F Glow plug, cylinder 3 - signal high

P0670 Glow plug control unit - circuit malfunction

P0671 Glow plug, cylinder 1 - circuit malfunction

P0672 Glow plug, cylinder 2 - electrical circuit malfunction

P0673 Glow plug, cylinder 3 - electrical circuit malfunction

P0674 Glow plug, cylinder 4 - electrical circuit malfunction

P0675 Glow plug, cylinder 5 - electrical circuit malfunction

P0676 Glow plug, cylinder 6 - electrical circuit malfunction

P0677 Glow plug, cylinder 7 - electrical circuit malfunction

P0678 Glow plug, cylinder 8 - electrical circuit malfunction

P0679 Glow plug, cylinder 9 - electrical circuit malfunction

P067A Glow plug, cylinder 4 - circuit low

P067B Glow plug, cylinder 4 - signal high

P067C Glow plug, cylinder 5 - circuit low

P067D Glow plug, cylinder 5 - circuit high

P067E Glow plug, cylinder 6 - circuit low

P067F Glow plug, cylinder 6 - signal high

P0680 Glow plug, cylinder 10 - electrical circuit malfunction

P0681 Glow plug, cylinder 11 - circuit malfunction

P0682 Glow plug, cylinder 12 - electrical circuit malfunction

P0683 Glow Plug Control Module Communication with ECM/PCM

P0684 Glow plug control module communication with ECM/PCM, communication error -
range/performance

P0685 Engine management system relay - open circuit

P0686 Engine management system relay - low signal

P0687 Engine management system relay - short to ground

P0688 Engine management system relay - short to +

P0689 Engine management system relay - low signal in the control
chains

P068A Engine management system relay - early shutdown

P068B Engine management system relay - late shutdown

CODE	DECRYPTION
P068C	Glow plug, cylinder 7 - circuit low
P068D	Glow plug, cylinder 7 - signal high
P068E	Glow plug, cylinder 8 - circuit low
P068F	Glow plug, cylinder 8 - signal high
P0690	Engine management system relay - high signal in the control circuit
P0691	Cooling Fan 1 Motor - Low signal
P0692	Cooling fan motor 1 - high signal
P0693	Cooling fan motor 2 - low signal
P0694	Cooling fan motor 2 - high signal
P0695	Cooling fan motor 3 - low signal
P0696	Cooling fan motor 3 - high signal
P0697	Reference voltage C sensor - open circuit
P0698	Sensor reference voltage C - low
P0699	Sensor reference voltage C - circuit high voltage
P069A	Glow plug, cylinder 9 - circuit low
P069B	Glow plug, cylinder 9 - signal high
P069C	Glow plug, cylinder 10 - circuit low
P069D	Glow plug, cylinder 10 - signal high

P069E Fuel pump control module - indicator activation request

engine malfunction

P069F Throttle control indicator - circuit malfunction

P06A0 Variable displacement A/C compressor control -

electrical circuit malfunction

P06A1 Variable displacement A/C compressor control circuit low

P06A2 Variable displacement A/C compressor control circuit high

P06A3 Sensor reference voltage D - open circuit

P06A4 Sensor reference voltage D - circuit low voltage

P06A5 Sensor reference voltage D - circuit high voltage

P06A6 Sensor reference voltage A - range / performance

P06A7 Sensor reference voltage B - range / performance

P06A8 Sensor C Reference Voltage Range/Performance

P06A9 D sensor reference voltage range/performance

P06AA Engine control module (ECM) / transmission control module (TCM) B -

internal temperature high

P06AB Electronic engine control module (ECM) / electronic module

transmission control module (TCM), internal temperature sensor B - circuit
malfunction

P06AC Engine control module (ECM)/transmission control module (TCM) internal

temperature sensor B - circuit range/performance

P06AD Engine control module (ECM) / electronic module

Transmission Control Module (TCM), internal temperature sensor B - low

signal

P06AE Engine control module (ECM) / electronic module
Transmission Control Module (TCM), internal temperature sensor B - high
signal

P06AF Torque control system - forced stop mode
engine

P06B0 Sensor power A - open circuit

P06B1 Sensor power supply A - signal low

P06B2 Sensor power supply A - signal high

P06B3 Sensor power supply B - open circuit

P06B4 Sensor power supply B - signal low

P06B5 Sensor power B - high signal

P06B6 Internal control module, knock sensor processor 1 -
functioning

P06B7 Internal control module, knock sensor processor 2 - performance
problem

P06B8 Internal control unit - non-volatile memory error

P06B9 Glow plug, cylinder 1 - circuit range/performance

P06BA Glow plug, cylinder 2 - circuit range/performance

P06BB Glow plug, cylinder 3 - circuit range/performance

P06BC Glow plug, cylinder 4 - circuit range/performance

P06BD Glow plug, cylinder 5 - circuit range/performance

P06BE Glow plug, cylinder 6 - circuit range/performance

P06BF Glow plug, cylinder 7 - circuit range/performance

P06C0 Glow plug, cylinder 8 - circuit range/performance

P06C1 Glow plug, cylinder 9 - circuit range/performance

P06C2 Glow plug, cylinder 10 - circuit range/performance

P06C3 Glow plug, cylinder 11 - circuit range/performance

P06C4 Glow plug, cylinder 12 - circuit range/performance

P06C5 Glow plug, cylinder 1 - malfunction

P06C6 Glow plug, cylinder 2 - malfunction

P06C7 Glow plug, cylinder 3 - malfunction

P06C8 Glow plug, cylinder 4 - malfunction

P06C9 Glow plug, cylinder 5 - malfunction

P06CA Glow plug, cylinder 6 - malfunction

P06CB Glow plug, cylinder 7 - malfunction

P06CC Glow plug, cylinder 8 - malfunction

P06CD Glow plug, cylinder 9 - malfunction

P06CE Glow plug, cylinder 10 - malfunction

P06CF Glow plug, cylinder 11 - malfunction

P06D0 Glow plug, cylinder 12 - malfunction

P06D1 Internal control unit, ignition coil control - performance

P06D2 Reference voltage E sensor - open circuit

P06D3 Sensor reference voltage E - signal low

P06D4 Reference voltage E sensor - high signal

P06D5 Reference voltage E sensor - range / performance

P06D6 Reference voltage F sensor - open circuit

P06D7 Reference voltage F sensor - low signal

CODE	DECRYPTION
P06D8	Reference voltage F sensor - high signal
P06D9	Reference voltage F sensor - range / performance
P06DA	Engine oil pressure control - open circuit
P06DB	Engine oil pressure control - circuit low
P06DC	Engine oil pressure control circuit high
P06DD	Engine oil pressure control - performance
P06DE	Engine oil pressure control - control circuit malfunction, enable signal
P06DF	Glow plug control module - memory checksum error
P06E0	Glow plug, cylinder 11 - control circuit low signal
P06E1	Glow Plug Cylinder 11 Control Circuit High
P06E2	Glow plug, cylinder 12 - control circuit low
P06E3	Glow plug, cylinder 12 - control circuit high
P06E4	Control unit, wake-up signal - signal error
P06E5	Glow plug control unit - performance

Transmission

CODE	DECRYPTION
P0700	Automatic transmission control, fault interrogation (MIL) - circuit malfunction
P0701	Automatic transmission control system - range / performance
P0702	Automatic transmission control system - electrical fault
P0703	Stop lamp switch B - circuit malfunction

P0704 Limit switch (position sensor) clutch pedal - malfunction
electrical circuit

P0705 Automatic transmission selector position sensor, PRNDL input - malfunction
electrical circuit

P0706 Transmission selector position sensor - range / performance

P0707 Automatic transmission selector position sensor - low signal

P0708 Automatic transmission selector position sensor - high input

P0709 Automatic transmission selector position sensor - unreliable contact of the electrical circuit

P070A Automatic transmission fluid level sensor - circuit malfunction

P070B Transmission fluid level sensor circuit range/performance

P070C Automatic transmission fluid level sensor - circuit low

P070D Automatic transmission fluid level sensor - circuit high

P070E Transmission fluid level sensor - intermittent / erratic signal

P070F Transmission fluid level - low

P0710 Automatic transmission fluid temperature sensor - electrical malfunction
chains

P0711 Transmission Fluid Temperature Sensor Range/Performance

P0712 Transmission fluid temperature sensor - circuit low

P0713 Transmission Fluid Temperature Sensor - High Input
signal

P0714 Transmission fluid temperature sensor - unreliable contact of the electrical
circuit

P0715 Automatic transmission input shaft speed sensor (turbines
torque converter) - electrical circuit malfunction

P0716 Automatic transmission input shaft speed sensor (torque
converter turbine) - range / performance

P0717 Automatic transmission input shaft speed sensor (turbines torque converter) - no signal

P0718 Automatic transmission input shaft speed sensor (turbines torque converter) - unreliable contact of the electrical circuit

P0719 Stop lamp switch B - signal low

P071A Automatic transmission mode selection switch A - circuit malfunction

P071B Automatic transmission mode selection switch A - signal low

P071C Switch A automatic transmission mode selection - high signal

P071D Switch B for automatic transmission mode selection - circuit malfunction

P071E Switch B for automatic transmission mode selection - signal low

P071F Switch B for automatic transmission mode selection - high signal

P0720 Output shaft speed sensor - electrical malfunction
chains

P0721 Output shaft speed sensor - range / performance

P0722 Output shaft speed sensor - no signal

P0723 Output shaft speed sensor - unreliable contact of the electrical circuit

P0724 Stop lamp switch B - signal high

P0725 Engine speed, input - electrical circuit malfunction

P0726 Engine speed input range/performance

P0727 Engine speed, input - no signal

P0728 Engine speed, input signal - unreliable contact
electrical circuit

P0729 6th gear - incorrect gear ratio

P072A Transmission system - locked in neutral

P072B Transmission system - locked in reverse gear

P072C Transmission system - locked in first gear

P072D Transmission system - locked in second gear

P072E Transmission system - locked in third gear

P072F Transmission system - locked in fourth gear

P0730 Incorrect gear ratio

P0731 1st gear - incorrect gear ratio

P0732 2nd gear - incorrect gear ratio

P0733 3rd gear - incorrect gear ratio

P0734 4th gear - incorrect gear ratio

P0735 5th gear - incorrect gear ratio

P0736 Reverse gear - incorrect gear ratio

P0737 Automatic transmission electronic control unit, speed - output circuit

P0738 Automatic transmission electronic control unit, speed - low
output signal

P0739 Automatic transmission electronic control unit, speed - high
output signal

P073A Transmission system - locked in fifth gear

P073B Transmission system - locked in sixth gear

P073C Transmission system - locked in seventh gear

P073D Transmission system - does not engage neutral

P073E Transmission system - reverse gear does not engage

P073F Transmission system - first gear does not turn on

P0740 Torque converter clutch solenoid -
electrical circuit malfunction

P0741 Torque converter clutch solenoid -
functioning or sticking closed

P0742 Torque converter clutch solenoid -
sticking open

P0743 Torque converter clutch solenoid valve -
electrical fault

P0744 Torque converter clutch solenoid valve - unreliable contact of the electrical
circuit

P0745 Transmission Fluid Pressure Control Solenoid -
electrical circuit malfunction

P0746 Transmission Fluid Pressure Control Solenoid -
functioning or sticking closed

P0747 Transmission Fluid Pressure Control Solenoid -
sticking open

P0748 Transmission Fluid Pressure Control Solenoid -
electrical fault

P0749 Transmission fluid pressure control solenoid - circuit intermittent

P074A Transmission system - second gear does not turn on

P074B Transmission system - third gear does not turn on

P074C Transmission system - fourth gear does not turn on

P074D Transmission system - fifth gear does not turn on

P074E Transmission system - sixth gear does not turn on

P074F Transmission system - seventh gear does not turn on

P0750 Solenoid shift valve A - circuit malfunction

P0751 Solenoid shift valve A - functioning or sticking in
closed state

P0752 Solenoid shift valve A - sticking open

P0753 Solenoid shift valve A - electrical fault

P0754 E / m valve A gear shift - unreliable electrical contact
chains

P0755 Solenoid valve B shift - circuit malfunction

P0756 Solenoid valve B shift - functioning or sticking in
closed state

P0757 Solenoid valve B shift - sticking open

P0758 Solenoid valve B shift - electrical fault

P0759 Solenoid valve B shift - unreliable electrical contact
chains

P075A Shift solenoid valve G - malfunction

P075B Shift solenoid valve G - malfunctioning or stuck in
closed state

P075C Shift solenoid valve G - stuck open

P075D Shift solenoid valve G - electrical fault

P075E Shift solenoid G - intermittent fault

P075F Automatic transmission fluid level - high

P0760 E / m valve C shift - electrical circuit malfunction

P0761 E / m valve C shift - functioning or sticking in
closed state

P0762 Solenoid valve C shift - sticking open

P0763 Solenoid valve C shift - electrical fault

P0764 Solenoid valve C shift - unreliable electrical contact
chains

P0765 Solenoid shift valve D - circuit malfunction

P0766 Solenoid shift valve D - functioning or sticking in
closed state

P0767 Solenoid shift valve D - sticking open

P0768 Solenoid shift valve D - electrical fault

P0769 Solenoid valve D shift - unreliable electrical contact
chains

P076A Solenoid valve H shift - malfunction

P076B Solenoid valve H shift - functioning or sticking in
closed state

P076C Shift solenoid valve H - stuck open

P076D Shift solenoid valve H - electrical fault

P076E Shift solenoid H - intermittent fault

P076F Transmission system - incorrect 7th gear ratio

P0770 Solenoid shift valve E - circuit malfunction

P0771 Solenoid valve E shift - functioning or sticking in
closed state

P0772 Shift Solenoid E - Stuck Open

P0773 Solenoid valve E shift - electrical fault

P0774 Solenoid valve E shift - unreliable electrical contact
chains

P0775 Solenoid pressure control valve B - malfunction

P0776 Solenoid valve B pressure control - functioning or sticking in
closed state

P0777 Pressure control solenoid B - stuck open

P0778 Solenoid pressure control valve B - electrical fault

P0779 Solenoid valve B pressure control - unreliable electrical contact
chains

P077A Output shaft speed sensor - loss of direction signal

P077B Output shaft speed sensor - direction error

P077C Output shaft speed sensor - circuit low

P077D Output shaft speed sensor - circuit high

P077E Transmission fluid temperature measurement - sensor correlation

P077F Reverse gear 2 - incorrect gear ratio

P0780 Gear selection - shift fault

P0781 Gear selection, 1-2 - shift fault

P0782 Gear selection, 2-3 - shift fault

P0783 Gear selection, 3-4 - shift fault

P0784 Gear selection, 4-5 - shift fault

P0785 Shift/timing solenoid valve - circuit malfunction

P0786 Shift/timing solenoid valve - circuit range/performance

P0787 Shift timing solenoid valve - low
level

P0788 Shift timing solenoid valve - high
level

P0789 Shift timing solenoid valve - unreliable contact of the electrical circuit

P078A Shift Solenoid B Shift Time -
malfunction

P078B Shift solenoid B - circuit range/performance

P078C Shift Solenoid B Shift Time - Low
signal

P078D Shift Solenoid B Shift Time - Circuit High

P078E Shift solenoid valve B - intermittent fault

P078F Automatic transmission mode selection switch C - circuit malfunction

P0790 Automatic transmission mode selection switch - electrical malfunction
chains

P0791 Intermediate shaft speed sensor - circuit malfunction

P0792 Transmission Intermediate Shaft Speed Sensor Range/Performance

P0793 Intermediate shaft speed sensor - no signal

P0794 Intermediate Shaft Speed Sensor - Intermittent Contact
electrical circuit

P0795 Transmission fluid pressure control solenoid valve C - malfunction
electrical circuit

P0796 Transmission fluid pressure control solenoid C -
functioning or sticking closed

P0797 Transmission fluid pressure control solenoid C - stuck in
open state

P0798 Transmission fluid pressure control solenoid C - electrical
malfunction

P0799 Transmission fluid pressure control solenoid C - unreliable
electrical circuit contact

P079A Transmission friction elements A - slippage

P079B Transmission friction elements B - slippage

P079C Transmission friction elements C - slippage

P079D Transmission friction elements D - slippage

P079E Transmission friction elements E - slippage

P079F Transmission friction elements F - slippage

P07A0 Transmission friction elements G - slippage

P07A1 Transmission friction elements H - slippage

P07A2 Transmission friction elements A - functioning or stuck in
off state

P07A3 Transmission friction elements A - stuck on

P07A4 Transmission friction elements B - functioning or stuck in
off state

P07A5 Transmission friction elements B - stuck on

P07A6 Transmission friction elements C - functioning or sticking in
off state

P07A7 Transmission friction elements C - stuck on

P07A8 Transmission friction elements D - functioning or sticking in
off state

P07A9 Transmission friction elements D - stuck on

P07AA Transmission friction elements E - performance or stuck in
off state

P07AB Transmission friction elements E - stuck on

P07AC Transmission friction elements F - functioning or sticking in
off state

P07AD Transmission friction elements F - stuck on

P07AE Transmission friction elements G - functioning or stuck in
off state

P07AF Transmission friction elements G - stuck on

P07B0 Transmission friction elements H - functioning or sticking in
off state

P07B1 Transmission friction elements H - stuck on

P07B2 Transmission P position sensor/switch A - open circuit

P07B3 Transmission P position sensor/switch A - circuit low

P07B4 Transmission P position sensor/switch A - circuit high

P07B5 Transmission P position sensor/switch A - circuit low/performance

P07B6 Transmission P position sensor/switch A - circuit high/performance

P07B7 Transmission P position sensor/switch A - intermittent/erratic contact
electrical circuit

P07B8 Transmission P position sensor/switch B - open circuit

P07B9 Transmission P position sensor/switch B - circuit low

P07BA Transmission P position sensor/switch B circuit high

P07BB Transmission P position sensor/switch B - circuit low/performance

P07BC Transmission P position sensor/switch B circuit high/performance

P07BD Transmission P position sensor/switch B - intermittent/erratic contact
electrical circuit

P07BE Transmission P position A/B switch/switch - correlation

P07BF Input shaft speed sensor/shaft speed sensor
turbine A - signal low

P07C0 Input shaft speed sensor/shaft speed sensor
Turbine A - signal high

P07C1 Input shaft speed sensor/shaft speed sensor
turbine B - signal low

P07C2 Input shaft speed sensor/shaft speed sensor
turbine B - signal high

P07C3 Input shaft speed sensor/shaft speed sensor
turbine C - signal low

P07C4 Input shaft speed sensor/shaft speed sensor
turbine C - signal high

P07C5 Intermediate shaft speed sensor A - circuit low

P07C6 Intermediate shaft speed sensor A - circuit high

P07C7 Intermediate shaft speed sensor B - circuit low

P07C8 Intermediate shaft speed sensor B - circuit high

P07C9 Intermediate shaft speed sensor C - circuit low

P07CA Intermediate shaft speed sensor C - circuit high

P07CB Transmission fluid thermostat - performance problem

P0800 Transfer Case Control Malfunction Interrogation (MIL) - Circuit Malfunction

P0801 Reverse gear interlock circuit - circuit malfunction

P0802 Automatic transmission control, malfunction request (MIL) - open circuit

P0803 Upshift circuit solenoid valve (1-4 gear), shift misfires - circuit malfunction

P0804 Upshift skip indicator (1-4
transmission) - electrical circuit malfunction

P0805 Clutch position sensor (clutch) - circuit malfunction

P0806 Clutch position sensor (clutch) - circuit range / performance

P0807 Clutch position sensor (clutch) - low signal

P0808 Clutch position sensor (clutch) - high signal

P0809 Clutch position sensor (clutch) - unreliable electrical contact
chains

P080A Clutch pedal position not learned

P080B Shift solenoid valve, shift to higher
transmission / through transmission - range / operation

P080C Shift Solenoid Shift Up/Through
transmission - signal low

P080D Shift solenoid valve upshift/through
transmission - signal high

P0810 Clutch control error

P0811 Increased clutch slip (clutch)

P0812 Reverse gear - input circuit malfunction

P0813 Reverse gear - output circuit malfunction

P0814 Selector position indicator - circuit malfunction

P0815 Transmission gear selection switch, upshift - malfunction
electrical circuit

P0816 Transmission gear selection switch, downshift - malfunction
electrical circuit

P0817 Starter interlock circuit - malfunction

P0818 Power flow disconnect switch - circuit malfunction

P0819 Transmission gear selection switch, up/down gear -
correlation with range

P081A Starter disable circuit - circuit low

P081B Starter disable circuit - circuit high

P081C Position P input signal (parking) - circuit malfunction

P081D N (neutral) position input - circuit malfunction

P081E Clutch In gearbox - excessive slip

P0820 Shift Lever XY Position Sensor - Electrical Malfunction

chains

P0821 Shift Lever X Position Sensor - Electrical Malfunction

chains

P0822 Shift Lever Y Position Sensor - Electrical Malfunction

chains

P0823 Position sensor X shift lever - unreliable contact of the electrical circuit

P0824 Position sensor Y shift lever - unreliable contact of the electrical circuit

P0825 Position switch (rocker type shift lever) -
electrical circuit malfunction

P0826 Transmission gear selection switch, up/down gear -
electrical circuit malfunction

P0827 Transmission gear selection switch, up/down gear - circuit low

P0828 Transmission gear selection switch, up/down gear -
high signal level

P0829 Switching from 5th to 6th gear

P082A Shift lever X position sensor - circuit range/
functioning

P082B Gear shift lever X position sensor - circuit low

CODE	DECRYPTION
P082C	Shift Lever X Position Sensor - Circuit High
P082D	Shift lever Y position sensor - circuit range/ functioning
P082E	Shift lever Y position sensor - circuit low
P082F	Gear shift lever Y position sensor - circuit high
P0830	Limit switch (position sensor) Clutch pedal A - electrical circuit malfunction
P0831	Limit switch (position sensor) A clutch pedal - low signal level
P0832	Limit switch (position sensor) A clutch pedal - high signal level
P0833	Limit switch (position sensor) B clutch pedal - circuit malfunction
P0834	Limit switch (position sensor) B clutch pedal - low input level
P0835	Limit switch (position sensor) in the clutch pedal - high input level
P0836	4WD mode switch - circuit malfunction
P0837	4WD mode switch - range / performance
P0838	4WD mode switch - signal low
P0839	4WD Mode Switch - High Input
P083A	Transmission fluid pressure switch G - malfunction electrical circuit
P083B	Transmission fluid pressure switch G - circuit range/ functioning
P083C	Transmission Fluid Pressure Switch G - Low signal

P083D Transmission fluid pressure switch G - high
signal level

P083E Transmission fluid pressure switch G - unreliable
electrical circuit contact

P083F Limit switch A / B (position sensor) clutch pedal -
correlation

P0840 Transmission fluid pressure sensor A - electrical malfunction
chains

P0841 Transmission fluid pressure sensor A circuit range/performance

P0842 Transmission fluid pressure sensor A - circuit low

P0843 Transmission Fluid Pressure Sensor A - Circuit High

P0844 Automatic transmission fluid pressure sensor A - unreliable contact
of the electrical circuit

P0845 Transmission Fluid Pressure Sensor B - Electrical Malfunction
chains

P0846 Transmission fluid pressure sensor B circuit range/performance

P0847 Transmission fluid pressure sensor B - circuit low input

P0848 Transmission Fluid Pressure Sensor B - High Input
signal

P0849 Transmission fluid pressure sensor B - circuit intermittent

P084A Sensor-switch H for transmission fluid pressure - malfunction
electrical circuit

P084B Transmission fluid pressure switch H - circuit range/performance

P084C Transmission Fluid Pressure Switch H - Low
signal

P084D Sensor-switch H for transmission fluid pressure - high
signal level

P084E Sensor-switch H for transmission fluid pressure - unreliable
electrical circuit contact

P084F Start inhibit switch - output circuit

P0850 Start inhibit switch (P / N) - input circuit malfunction
signal

P0851 Start inhibit switch (P/N) - input low

P0852 Start inhibit switch (P/N) - high input

P0853 Drive mode switch - input circuit malfunction

P0854 Drive mode switch - input low

P0855 Drive Mode Switch - High Input

P0856 Traction control input - malfunction

P0857 Traction Control Input - Range/Performance

P0858 Traction Control Input - Low

P0859 Traction Control Input - High

P085A Shift control unit B, communication circuit - malfunction

P085B Shift Control Module B Communication Circuit Low
signal

P085C Shift Control Module B Communication Circuit High
signal

P085D Shift control module A - performance

P085E Shift control module B - performance

P0860 Shift control unit communication line - malfunction

P0861 Shift control unit communication line - circuit low

P0862 Shift control unit communication line - input high

signal

P0863 Transmission control module (TCM) communication - circuit malfunction

P0864 Transmission control module (TCM) communication - range /
functioning

P0865 Transmission control module (TCM) communication - input low

signal

P0866 Transmission control module (TCM) communication - high input

signal

P0867 Automatic transmission fluid pressure sensor

P0868 Automatic transmission fluid pressure sensor - low

P0869 Automatic transmission fluid pressure sensor - high

P086A Neutral position switch - open circuit

P086B Neutral position switch - circuit range / performance

P086C Neutral position switch - low signal

P086D Neutral position switch - signal high

P086E Neutral position switch - unreliable / missing
electrical circuit contact

P0870 Transmission Fluid Pressure Sensor C - Electrical Malfunction

chains

P0871 Transmission Fluid Pressure Sensor C Circuit Range/Performance

P0872 Transmission fluid pressure sensor C - circuit low

P0873 Transmission Fluid Pressure Sensor C - Circuit High

P0874 Transmission fluid pressure sensor C - circuit intermittent

P0875 Automatic transmission fluid pressure sensor D - electrical malfunction
chains

P0876 Transmission Fluid Pressure Sensor D Circuit Range/Performance

P0877 Transmission fluid pressure sensor D - circuit low

P0878 Transmission fluid pressure sensor D - circuit high voltage

P0879 Transmission fluid pressure sensor D - circuit intermittent

P087A Clutch position sensor B - circuit malfunction

P087B Clutch position sensor B - range / performance

P087C Clutch position sensor B - circuit low

P087D Clutch position sensor B - circuit high

P087E Clutch position sensor B - circuit intermittent

P0880 Automatic transmission electronic control unit - power supply circuit malfunction

P0881 Automatic transmission electronic control unit - power supply circuit malfunction (range
/ functioning)

P0882 Electronic control unit automatic transmission - low voltage supply circuit

P0883 Electronic control unit automatic transmission - high voltage supply circuit

P0884 Transmission control module (TCM) power input - circuit intermittent

P0885 Transmission Control Module (TCM) Power Relay, Control - Open
chains

P0886 Transmission Control Module (TCM) Power Relay Control Low
signal level

P0887 Transmission Control Module (TCM) Power Relay Control -
high signal level

P0888 Transmission control module (TCM) power relay - malfunction
control circuit

P0889 Transmission control module (TCM) power relay - control circuit range/
performance

P088A Transmission fluid filter - filter deterioration

P088B Transmission fluid filter - severe filter deterioration

P0890 Transmission Control Module (TCM) Power Relay - Low
signal in the control circuit

P0891 Transmission Control Module (TCM) Power Relay - Pilot Circuit High

P0892 Transmission Control Module (TCM) Power Relay - Unreliable
control circuit contact

P0893 Simultaneous inclusion of several gears

P0894 Slippage of automatic transmission components

P0895 Switching time too short

P0896 Switching time too long

P0897 Deterioration in the quality of the working fluid

P0898 Transmission control, fault interrogation (MIL) - circuit low voltage

P0899 Transmission control, fault interrogation (MIL) - circuit high voltage

P089A Shift lever X position sensor 2 - circuit malfunction

P089B Shift lever X position sensor 2 - circuit range/
functioning

P089C Shift lever X position sensor 2 - circuit low

P089D Shift Lever X Position Sensor 2 - Circuit High

P089E Shift Lever X Position Sensor 2 - Unreliable/
missing contact of the electrical circuit

P089F Shift Lever Y Position Sensor 2 - Electrical Malfunction
chains

P08A0 Gear shift lever Y position sensor 2 - range /
functioning

P08A1 Shift lever Y position sensor 2 - circuit low

P08A2 Shift lever Y position sensor 2 - circuit high

P08A3 Gear shift lever Y position sensor 2 - unreliable /
missing contact of the electrical circuit

P08A4 Shift lever X position sensor 1/2 - correlation

P08A5 Sensor 1/2 position Y gearshift lever - correlation

P08A6 Shift lever position sensor - sensor correlation

P0900 Clutch actuator - open circuit

P0901 Clutch Actuator Range/Performance

P0902 Clutch actuator - circuit low voltage

P0903 Clutch actuator - circuit high voltage

P0904 Transmission range selection circuit - malfunction

P0905 Transmission Range Select Circuit Range/Performance

P0906 Transmission Range Select Circuit - Voltage Low

P0907 Transmission Range Select Circuit High Voltage

P0908 Transmission range selection circuit - electrical circuit intermittent

P0909 Transmission range selection error

P090A Clutch actuator B - open circuit

P090B Clutch actuator B - circuit range/performance

P090C Clutch actuator B - circuit low

P090D Clutch actuator B - circuit high

P0910 Transmission range select actuator - open circuit

P0911 Transmission Range Select Actuator Range/Performance

P0912 Transmission range select actuator - circuit low voltage

P0913 Transmission range select actuator - circuit high voltage

P0914 Gear Engagement Detection Circuit Malfunction

P0915 Gear Engaged Detection Circuit Range/Performance

P0916 Engagement detection circuit - circuit low voltage

P0917 Engagement detection circuit - circuit high voltage

P0918 Transmission detection circuit - unreliable contact of the electrical circuit

P0919 Gear shift control - error

P0920 Drive gear shift forward - open circuit

P0921 Forward Gear Actuator Range/Performance

P0922 Drive Shift Forward - Circuit Low Voltage

P0923 Forward gear actuator - circuit high voltage

P0924 Reverse gear actuator - open circuit

P0925 Actuator reverse gear - range / performance

P0926 Reverse gear actuator - circuit low voltage

P0927 Reverse gear actuator - circuit high voltage

P0928 Shift lock solenoid valve - open circuit

P0929 Shift lock solenoid valve - range / functioning

P092A Shift lock solenoid/actuator control circuit B - open circuit

P092B Shift lock solenoid/actuator control circuit B - range/performance
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P092C Shift lock solenoid/actuator control circuit B - low signal level

P092D Shift lock solenoid/actuator control circuit B - high signal level
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P0930 Shift lock solenoid valve - low circuit voltage

P0931 Shift lock solenoid valve - high circuit voltage
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P0932 Hydraulic pressure sensor - circuit malfunction

P0933 Hydraulic pressure sensor - range / performance

P0934 Hydraulic pressure sensor - low signal
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P0935 Hydraulic pressure sensor - high input
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P0936 Hydraulic pressure sensor - unreliable contact of the electrical circuit
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P0937 Hydraulic fluid temperature sensor - circuit malfunction
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P0938 Hydraulic Fluid Temperature Sensor Range/Performance
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P0939 Hydraulic fluid temperature sensor - low signal

P0940 Hydraulic fluid temperature sensor - high input signal
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P0941 Hydraulic fluid temperature sensor - unreliable contact
electrical circuit

P0942 Hydraulic pressure generation unit

P0943 Hydraulic pressure generation unit - work cycle too short

P0944 Hydraulic pressure generation unit - loss of pressure

P0945 Hydraulic pump relay - open circuit

P0946 Hydraulic pump relay - range / performance

P0947 Hydraulic pump relay - circuit low voltage

P0948 Hydraulic pump relay - circuit high voltage

P0949 Automatic shift transmission (ASM) - not
conducted adaptive training

P0950 Automated shift transmission (ASM) control - circuit malfunction

P0951 Automatic shift transmission (ASM), control -
range/performance

P0952 Automatic Shift Transmission (ASM) Control Circuit Low

P0953 Automated Shift Transmission (ASM) Control Circuit High

P0954 Automatic shift transmission (ASM), control -
unreliable electrical contact

P0955 Automated Shift Transmission (ASM) Mode -
electrical circuit malfunction

P0956 Automatic Shift Transmission (ASM) Mode -
range/performance

P0957 Automated Shift Transmission (ASM) Mode - Circuit Low

P0958 Automated Shift Transmission (ASM) Mode -
high signal level

P0959 Automated Shift Transmission (ASM) Mode - Intermittent Electrical Circuit
Contact

P0960 Solenoid pressure control valve A - open circuit

P0961 Pressure control solenoid A - circuit range/performance

P0962 Solenoid pressure control valve A - signal low

P0963 Solenoid pressure control valve A - signal high

P0964 Solenoid pressure control valve B - open circuit

P0965 Pressure control solenoid B - circuit range/performance

P0966 Pressure control solenoid valve B - circuit low

P0967 Solenoid pressure control valve B - signal high

P0968 Solenoid pressure control valve C - open circuit

P0969 Pressure control solenoid C - range/performance

P0970 Solenoid pressure control valve C - circuit low

P0971 Solenoid pressure control valve C - signal high

P0972 Shift solenoid A - circuit range/performance

P0973 Solenoid valve A shift - low signal

P0974 Solenoid valve A shift - high signal

P0975 Solenoid valve B shift - range / performance

P0976 Shift solenoid valve B - circuit low

P0977 Solenoid valve B shift - high signal

P0978 Shift solenoid C - range/performance

P0979 Solenoid valve C shift - low signal

P0980 Solenoid valve C shift - high signal

P0981 Solenoid valve D shift - range / performance

P0982 Shift solenoid valve D - circuit low

P0983 Solenoid valve D shift - high signal

P0984 Solenoid shift valve E - range / performance

P0985 Shift solenoid valve E - circuit low

P0986 Solenoid valve E shift - high signal

P0987 Automatic transmission fluid pressure sensor E - electrical malfunction
chains

P0988 Transmission fluid pressure sensor E circuit range/performance

P0989 Transmission fluid pressure sensor E - circuit low

P0990 Transmission fluid pressure sensor E - circuit high voltage

P0991 Automatic transmission fluid pressure sensor E - unreliable contact
of the electrical circuit

P0992 Automatic transmission fluid pressure sensor F - electrical malfunction
chains

P0993 Transmission fluid pressure sensor E circuit range/performance

P0994 Transmission fluid pressure sensor F - circuit low

P0995 Transmission Fluid Pressure Sensor F Circuit High

P0996 Automatic transmission fluid pressure sensor F - unreliable contact
of the electrical circuit

P0997 Shift solenoid F - circuit range/performance

P0998 Shift Solenoid F - Circuit Low

P0999 Solenoid valve F shift - high signal

CODE	DECRYPTION
P099A	Shift solenoid G - control circuit range/performance
P099B	Shift solenoid valve G - control signal low chains
P099C	Solenoid valve G shift - control signal high chains
P099D	Shift solenoid H - control circuit range/performance
P099E	Shift solenoid valve H - control signal low chains
P099F	Solenoid valve H shift - control signal high chains

Other codes

CODE	DECRYPTION
P0A00	Voltage converter coolant temperature sensor - electrical circuit malfunction
P0A01	Voltage converter coolant temperature sensor - range/performance
P0A02	Voltage converter coolant temperature sensor - low signal level
P0A03	Voltage converter coolant temperature sensor - high signal level
P0A04	Voltage converter coolant temperature sensor - circuit intermittent
P0A05	Voltage converter coolant pump A, control - open chains
P0A06	Voltage converter coolant pump A control - low signal level

P0A07 Voltage converter coolant pump A control -
high signal level

P0A08 DC/DC converter status - circuit malfunction

P0A09 DC/DC converter status - signal low

P0A0A High voltage system - electrical interlock circuit malfunction

P0A0B High voltage system - interlock circuit performance

P0A0C High voltage system - interlock circuit low

P0A0D High voltage system - high signal in the interlock circuit

P0A0E High voltage system - interlock electrical circuit contact intermittent

P0A0F Hybrid installation - engine will not start

P0A10 DC / DC converter status - signal high

P0A11 DC/DC converter status - open circuit

P0A12 DC/DC converter start - signal low

P0A13 DC / DC converter status - signal high

P0A14 Engine mount control A - open circuit

P0A15 Engine mount control A - circuit low

P0A16 Engine mount control A - circuit high

P0A17 Motor torque sensor - electrical malfunction
chains

P0A18 Motor torque sensor - circuit range/performance

P0A19 Motor torque sensor - circuit low

P0A1A Generator control module

P0A1B Drive motor control module A

P0A1C Traction motor control module B

P0A1D Hybrid powertrain control module

P0A1E Starter/generator control module

P0A1F Battery charge control module

P0A20 Motor torque sensor - circuit high

P0A21 Motor torque sensor - circuit intermittent

P0A22 Generator torque sensor - circuit malfunction

P0A23 Generator torque sensor - circuit range/performance

P0A24 Generator torque sensor - circuit low

P0A25 Generator torque sensor - circuit high

P0A26 Generator torque sensor - electrical contact intermittent
chains

P0A27 Hybrid battery power off - circuit malfunction

P0A28 Hybrid battery power off - circuit low

P0A29 Hybrid battery power off - circuit high

P0A2A Drive motor A temperature sensor - open circuit

P0A2B Drive motor A temperature sensor - circuit range/
functioning

P0A2C Drive motor A temperature sensor - circuit low

P0A2D Drive motor A temperature sensor - circuit high

P0A2E Drive motor temperature sensor A - circuit intermittent

P0A2F Drive motor A temperature sensor - overheating

P0A30 Traction motor B temperature sensor - open circuit

P0A31 Drive motor B temperature sensor - circuit range/
functioning

P0A32 Drive motor B temperature sensor - circuit low

P0A33 Drive motor B temperature sensor - circuit high

P0A34 Drive motor temperature sensor B - circuit intermittent

P0A35 Drive motor temperature sensor B - overheating

P0A36 Generator temperature sensor - circuit malfunction

P0A37 Generator temperature sensor - circuit range/performance

P0A38 Generator temperature sensor - circuit low

P0A39 Generator temperature sensor - circuit high

P0A3A Generator temperature sensor - circuit intermittent

P0A3B Generator - overheating

P0A3C Drive motor A, inverter - overtemperature

P0A3D Drive motor B, inverter - overtemperature

P0A3E Generator inverter - overheating

P0A3F Drive motor A position sensor - malfunction
electrical circuit

P0A40 Drive motor A position sensor - circuit range/
functioning

P0A41 Drive motor position sensor A - circuit low

P0A42 Traction motor position sensor A - circuit high

P0A43 Traction motor position sensor A - circuit intermittent

P0A44 Drive motor position sensor A - speed too high

P0A45 Drive motor B position sensor - circuit malfunction

P0A46 Drive motor B position sensor - circuit range/
functioning

P0A47 Traction motor B position sensor - circuit low

P0A48 Traction motor B position sensor - circuit high

P0A49 Traction motor position sensor B - circuit intermittent

P0A4A Drive motor B position sensor - speed too high

P0A4B Generator position sensor - circuit malfunction

P0A4C Generator position sensor - circuit range/performance

P0A4D Generator position sensor - circuit low

P0A4E Generator position sensor - circuit high

P0A4F Generator position sensor - circuit intermittent

P0A50 Generator position sensor - speed too high

P0A51 Traction motor current sensor A - open circuit

P0A52 Drive motor A current sensor circuit range/performance

P0A53 Drive motor current sensor A - circuit low

P0A54 Drive motor current sensor A - circuit high

P0A55 Drive motor B current sensor - circuit malfunction

P0A56 Drive motor B current sensor circuit range/performance

P0A57 Traction motor B current sensor - circuit low

P0A58 Traction motor B current sensor - circuit high

P0A59 Generator current sensor - circuit malfunction

P0A5A Generator current sensor circuit range/performance

P0A5B Generator current sensor - circuit low

P0A5C Generator current sensor - circuit high

P0A5D Drive motor A, phase U current - malfunction

P0A5E Drive motor A, phase U current - low

P0A5F Drive motor A, phase U current - high

P0A60 Traction motor A, phase V current - malfunction

P0A61 Traction motor A, phase V current - low

P0A62 Traction motor A, phase V current - high

P0A63 Traction motor A, phase W current - malfunction

P0A64 Traction motor A, phase W current - low

P0A65 Traction motor A, phase W current - high

P0A66 Traction motor B, phase U current - malfunction

P0A67 Traction motor B, phase U current - low

P0A68 Traction motor B, phase U current - high

P0A69 Traction motor B, phase V current - malfunction

P0A6A Traction motor B, phase V current - low

P0A6B Traction motor B, phase V current - high

P0A6C Traction motor B, phase W current - malfunction

P0A6D Traction motor B, phase W current - low

P0A6E Traction motor B, phase W current - high

P0A6F Alternator, phase U current - malfunction

P0A70 Generator, phase U current - low

P0A71 Generator phase current U - high level

P0A72 Alternator, phase V current - malfunction

P0A73 Generator, phase V current - low

P0A74 Generator phase V current high

P0A75 Alternator, phase W current - malfunction

P0A76 Generator phase W current - low

P0A77 Generator phase W current high

P0A78 Traction motor A, inverter - performance

P0A79 Drive motor B inverter - performance problem

P0A7A Generator inverter - performance problem

P0A7B Battery charge control module - indicator activation request
malfunctions

P0A7C Voltage converter - overheating

P0A7D Hybrid battery pack - low battery

P0A7E Hybrid battery - over temperature

P0A7F Hybrid battery pack - condition

P0A80 Hybrid battery

P0A81 Hybrid battery pack, cooling fan 1 open control circuit

P0A82 Hybrid battery pack cooling fan 1 - performance problem
/ stuck off

P0A83 Hybrid battery pack cooling fan 1 - stuck during
on state

P0A84 Hybrid battery pack cooling fan 1 - circuit low
signal in the control circuit

P0A85 Hybrid battery pack cooling fan 1 circuit high
signal in the control circuit

P0A86 Power module current sensor (14 V) - circuit malfunction

P0A87 Power module current sensor (14V) - circuit range/performance

P0A88 Power module current sensor (14 V) - circuit low

P0A89 Power module current sensor (14 V) - circuit high

P0A8A Power module current sensor (14 V) - circuit intermittent

P0A8B Power module (14 V) - system voltage

P0A8C Power module (14 V) - system voltage unstable

P0A8D Power module (14 V) - system voltage low

P0A8E Power module (14 V) - system voltage high

P0A8F Power module (14 V) - performance

P0A90 Traction motor A - performance

P0A91 Traction motor B - performance

P0A92 Hybrid generator - performance

P0A93 Inverter A, cooling system - performance

P0A94 DC/DC converter - performance

P0A95 Hybrid battery - high voltage fuse

P0A96 Hybrid battery pack, cooling fan 2 - control circuit open

P0A97 Hybrid battery pack cooling fan 2 - performance problem
/ stuck off

P0A98 Hybrid battery pack cooling fan 2 - stuck during
on state

P0A99 Hybrid battery pack cooling fan 2 - circuit low
control circuit

P0A9A Hybrid battery, cooling fan 2 - circuit high
control circuit

P0A9B Hybrid battery temperature sensor A - circuit malfunction

P0A9C Hybrid battery temperature sensor A - circuit range/performance

P0A9D Hybrid battery temperature sensor A - circuit low

P0A9E Hybrid battery temperature sensor A - circuit high
signal

P0A9F Hybrid battery temperature sensor A - circuit intermittent/erratic

P0AA0 Hybrid battery positive contactor - circuit malfunction

P0AA1 Hybrid battery positive contactor - stuck in
closed position

P0AA2 Hybrid battery positive contactor - stuck in
open position

P0AA3 Hybrid battery positive contactor - malfunction
electrical circuit

P0AA4 Hybrid battery positive contactor - stuck in
closed position

P0AA5 Hybrid battery positive contactor - stuck in
open position

P0AA6 Hybrid battery voltage - insulation fault

P0AA7 Hybrid battery isolation sensor - circuit malfunction

P0AA8 Hybrid battery isolation sensor - circuit range/
functioning

P0AA9 Hybrid battery isolation sensor - circuit low

P0AAA Hybrid battery isolation sensor - circuit high

P0AAB Hybrid battery isolation sensor - intermittent/erratic
electrical circuit contact

P0AAC Hybrid battery pack air temperature sensor A - malfunction
electrical circuit

P0AAD Hybrid battery pack air temperature sensor A - circuit range/
functioning

P0AAE Hybrid battery air temperature sensor A - low
signal

P0AAF Hybrid battery air temperature sensor A - malfunction
electrical circuit

P0AB0 Hybrid battery current sensor A - intermittent/erratic
electrical circuit contact

P0AB1 Hybrid battery air temperature sensor B - malfunction
electrical circuit

P0AB2 Hybrid battery air temperature sensor B - malfunction
electrical circuit

P0AB3 Hybrid battery air temperature sensor B - circuit low
signal

P0AB4 Hybrid battery air temperature sensor B - high
signal level

P0AB5 Hybrid battery air temperature sensor B - circuit intermittent/erratic

P0AB6 Engine mount control B - open circuit

P0AB7 Engine mount control B - circuit low

P0AB8 Engine mount control B - circuit high

P0AB9 Hybrid powertrain - performance

P0ABA Hybrid battery voltage sensor A - circuit malfunction

P0ABB Hybrid battery voltage sensor A - circuit range/performance

P0ABC Hybrid battery voltage sensor A - circuit low

P0ABD Hybrid battery voltage sensor A - high

signal

P0ABE Hybrid battery voltage sensor A - circuit intermittent/erratic

P0ABF Hybrid battery current sensor A - electrical fault

chains

P0AC0 Hybrid battery current sensor A - circuit range/performance

P0AC1 Hybrid battery current sensor A - circuit low

P0AC2 Hybrid battery current sensor A - circuit high

P0AC3 Hybrid battery current sensor A - intermittent/erratic
electrical circuit contact

P0AC4 Hybrid powertrain control module - activation request
fault indicator

P0AC5 Hybrid battery temperature sensor B - circuit malfunction

P0AC6 Hybrid battery temperature sensor B - circuit range/performance

P0AC7 Hybrid battery temperature sensor B - circuit low

P0AC8 Hybrid battery temperature sensor B - high

signal

P0AC9 Hybrid battery temperature sensor B - circuit intermittent/erratic

P0ACA Hybrid battery temperature sensor C - circuit malfunction

P0ACB Hybrid battery pack temperature sensor C - circuit range/performance

P0ACC Hybrid battery temperature sensor C - circuit low

P0ACD Hybrid battery temperature sensor C - high

signal

P0ACE Hybrid battery temperature sensor C - intermittent/
missing contact of the electrical circuit

P0ACF Hybrid battery pack cooling fan 3 - control circuit open

P0AD0 Hybrid battery pack cooling fan 3 - performance problem
/ stuck off

P0AD1 Hybrid battery pack cooling fan 3 - stuck during
on state

P0AD2 Hybrid battery pack cooling fan 3 - low
control circuit level

P0AD3 Hybrid battery pack cooling fan 3 - circuit high
control circuit

P0AD4 Hybrid battery cooling system - insufficient flow
air

P0AD5 Hybrid battery, air supply valve A - control circuit open
chains

P0AD6 Hybrid battery pack air inlet valve A - circuit range/performance

P0AD7 Hybrid battery pack air valve A - circuit low
signal in the control circuit

P0AD8 Hybrid battery pack air valve A high
signal in the control circuit

P0AD9 Hybrid battery positive contactor - control circuit open

P0ADA Hybrid battery positive contactor - control circuit range/performance

P0ADB Hybrid battery positive contactor - circuit low
signal in the control circuit

P0ADC Hybrid battery positive contactor - high
signal in the control circuit

P0ADD Hybrid battery positive contactor - control circuit open

P0ADE Hybrid battery positive contactor - control circuit range/performance

P0ADF Hybrid battery positive contactor - low
signal in the control circuit

P0AE0 Hybrid battery positive contactor - circuit high
signal in the control circuit

P0AE1 Hybrid Battery Precharge Contactor Circuit Malfunction

P0AE2 Hybrid battery precharge contactor -
sticking in closed position

P0AE3 Hybrid Battery Precharge Contactor -
sticking open

P0AE4 Hybrid battery precharge contactor - control circuit malfunction

P0AE5 Hybrid Battery Precharge Contactor Range/Performance

CODE	DECRYPTION
P0AE6	Hybrid battery precharge contactor - low signal level in the control circuit
P0AE7	Hybrid battery precharge contactor - high signal level in the control circuit
P0AE8	Hybrid battery temperature sensor D - circuit malfunction
P0AE9	Hybrid battery temperature sensor D - circuit range/performance
P0AEA	Hybrid battery temperature sensor D - circuit low
P0AEB	Hybrid battery temperature sensor D - high signal
P0AEC	Hybrid battery temperature sensor D - intermittent/ missing contact of the electrical circuit
P0AED	Drive motor inverter A temperature sensor - malfunction electrical circuit
P0AEE	Drive motor inverter A temperature sensor - circuit range/ functioning
P0AEF	Drive motor inverter temperature sensor A - low signal
P0AF0	Drive motor inverter temperature sensor A - high signal level
P0AF1	Drive motor inverter temperature sensor A - circuit intermittent/erratic
P0AF2	Drive motor inverter temperature sensor B - malfunction electrical circuit
P0AF3	Drive motor inverter temperature sensor B - circuit range/performance
P0AF4	Drive motor inverter temperature sensor B - low signal

P0AF5 Drive motor inverter temperature sensor B - high
signal level

P0AF6 Drive motor inverter temperature sensor B - circuit intermittent/erratic

P0AF7 Power module (14 V) - internal temperature too high

P0AF8 Hybrid battery system - voltage incorrect

P0AF9 Hybrid battery system - voltage unstable

P0AFA Hybrid battery system - voltage low

P0AFB Hybrid battery system - voltage high

P0AFC Hybrid battery pack - sensor module

P0AFD Hybrid battery pack temperature too low

P0AFE Hybrid battery system - voltage too low for
conversions (boosts)

P0AFF Hybrid battery system - voltage too low for
conversions (downgrades)

P0B00 Auxiliary transmission fluid pump motor,
phase current U - fault

P0B01 Auxiliary Transmission Fluid Pump Motor U Phase Current Low

P0B02 Auxiliary transmission fluid pump motor,
phase current U - high level

P0B03 Auxiliary transmission fluid pump motor,
phase current V - fault

P0B04 Auxiliary transmission fluid pump motor,
phase current V - low level

P0B05 Auxiliary transmission fluid pump motor,
phase current V - high level

P0B06 Auxiliary transmission fluid pump motor,
phase W current - fault

P0B07 Auxiliary transmission fluid pump motor,
W phase current - low level

P0B08 Auxiliary transmission fluid pump motor,
phase W current - high level

P0B09 Auxiliary transmission fluid pump motor -
power circuit failure

P0B0A Auxiliary transmission fluid pump motor -
low supply voltage

P0B0B Auxiliary transmission fluid pump motor -
high supply voltage

P0B0C Auxiliary transmission fluid pump - leaks in
hydraulic system

P0B0D Auxiliary transmission fluid pump, control module -
malfunction

P0B0E Hybrid battery current sensor B - electrical fault
chains

P0B0F Hybrid battery current sensor B - circuit range/performance

P0B10 Hybrid battery current sensor B - circuit low

P0B11 Hybrid battery current sensor B - circuit high

P0B12 Hybrid battery current sensor B - intermittent/erratic
electrical circuit contact

P0B13 Hybrid battery pack current sensor A/B - correlation

P0B14 Hybrid battery voltage sensor B - circuit malfunction

P0B15 Hybrid battery voltage sensor B - circuit range/
functioning

CODE	DECRYPTION
P0B16	Hybrid battery voltage sensor B - circuit low
P0B17	Hybrid battery voltage sensor B - circuit high signal
P0B18	Hybrid battery voltage sensor B - intermittent/ missing contact of the electrical circuit
P0B19	Hybrid battery voltage sensor C - circuit malfunction
P0B1A	Hybrid battery voltage sensor C - circuit range/performance
P0B1B	Hybrid battery voltage sensor C - circuit low
P0B1C	Hybrid battery voltage sensor C - circuit high signal
P0B1D	Hybrid battery voltage sensor C - circuit intermittent/erratic
P0B1E	Hybrid battery voltage sensor D - circuit malfunction
P0B1F	Hybrid battery voltage sensor D - circuit range/performance
P0B20	Hybrid battery voltage sensor D - circuit low
P0B21	Hybrid battery voltage sensor D - circuit high signal
P0B22	Hybrid battery voltage sensor D - circuit intermittent/erratic
P0B23	Hybrid Battery A - Incorrect Voltage
P0B24	Hybrid Battery A - Unstable Voltage
P0B25	Hybrid Battery A - Low Voltage
P0B26	Hybrid Battery A - High Voltage

CODE	DECRYPTION
P0B27	Hybrid Battery B - Incorrect Voltage
P0B28	Hybrid Battery B - Unstable Voltage
P0B29	Hybrid Battery B - Low Voltage
P0B2A	Hybrid battery B - voltage high
P0B2B	Hybrid battery C - voltage incorrect
P0B2C	Hybrid battery C - voltage unstable
P0B2D	Hybrid battery C - voltage low
P0B2E	Hybrid Battery C - High Voltage
P0B2F	Hybrid Battery D - Incorrect Voltage
P0B30	Hybrid Battery D - Unstable Voltage
P0B31	Hybrid Battery D - Low Voltage
P0B32	Hybrid Battery D - High Voltage
P0B33	Hybrid battery isolator - circuit malfunction
P0B34	Hybrid battery isolator - performance problem
P0B35	Hybrid battery isolator - circuit low
P0B36	Hybrid battery isolator circuit high
P0B37	Hybrid battery isolator - open circuit
P0B38	Voltage converter coolant pump motor B - control circuit open
P0B39	Voltage converter coolant pump motor B - control circuit low
P0B3A	Voltage converter coolant pump motor B - control circuit high
P0B3B	Hybrid battery voltage sensor A - circuit malfunction

CODE	DECRYPTION
P0B3C	Hybrid battery voltage sensor A - circuit range/performance
P0B3D	Hybrid battery voltage sensor A - circuit low
P0B3E	Hybrid battery voltage sensor A - circuit high signal
P0B3F	Hybrid battery voltage sensor A - circuit intermittent/erratic
P0B40	Hybrid battery voltage sensor B - circuit malfunction
P0B41	Hybrid battery voltage sensor B - circuit range/performance
P0B42	Hybrid battery voltage sensor B - circuit low
P0B43	Hybrid battery voltage sensor B - high signal
P0B44	Hybrid battery voltage sensor B - circuit intermittent/erratic
P0B45	Hybrid battery voltage sensor C - circuit malfunction
P0B46	Hybrid battery voltage sensor C - circuit range/performance
P0B47	Hybrid battery voltage sensor C - circuit low
P0B48	Hybrid battery voltage sensor C - circuit high signal
P0B49	Hybrid battery voltage sensor C - circuit intermittent/erratic
P0B4A	Hybrid battery voltage sensor D - circuit malfunction
P0B4B	Hybrid battery voltage sensor D - range/ functioning

CODE	DECRYPTION
P0B4C	Hybrid battery voltage sensor D - circuit low
P0B4D	Hybrid battery voltage sensor D - circuit high signal
P0B4E	Hybrid battery voltage sensor D - intermittent/ missing contact of the electrical circuit
P0B4F	Hybrid battery voltage sensor E - circuit malfunction
P0B50	Hybrid battery voltage sensor E - circuit range/performance
P0B51	Hybrid battery voltage sensor E - circuit low
P0B52	Hybrid battery voltage sensor E - circuit high signal
P0B53	Hybrid battery voltage sensor E - intermittent/ missing contact of the electrical circuit
P0B54	Hybrid battery voltage sensor F - circuit malfunction
P0B55	F hybrid battery voltage sensor circuit range/performance
P0B56	Hybrid battery voltage sensor F - circuit low
P0B57	F hybrid battery voltage sensor - high signal
P0B58	F hybrid battery voltage sensor - intermittent/ missing contact of the electrical circuit
P0B59	Hybrid battery voltage sensor G - circuit malfunction
P0B5A	Hybrid battery voltage G sensor circuit range/performance
P0B5B	Hybrid battery voltage sensor G - circuit low

P0B5C Hybrid battery voltage sensor G - circuit high signal
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P0B5D Hybrid battery voltage G sensor - circuit intermittent/erratic
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P0B5E Hybrid battery voltage sensor H - circuit malfunction

P0B5F Hybrid battery voltage sensor H - circuit range/ functioning

P0B60 Hybrid battery voltage sensor H - circuit low

P0B61 Hybrid battery voltage sensor H - circuit high signal
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P0B62 Hybrid battery voltage sensor H - intermittent/ missing contact of the electrical circuit
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P0B63 Hybrid battery voltage sensor I - circuit malfunction

P0B64 Hybrid battery voltage sensor I - range/ functioning

P0B65 Hybrid battery voltage sensor I - circuit low

P0B66 Hybrid battery voltage sensor I - circuit high
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P0B67 Hybrid battery voltage sensor I - intermittent/ missing contact of the electrical circuit
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P0B68 Hybrid battery voltage sensor J - circuit malfunction

P0B69 Hybrid battery voltage J sensor circuit range/performance

P0B6A Hybrid battery voltage sensor J - circuit low

P0B6B Hybrid battery voltage sensor J - circuit high
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P0B6C Hybrid battery voltage sensor J - intermittent/
missing contact of the electrical circuit

P0B6D Hybrid battery voltage sensor K - circuit malfunction

P0B6E Hybrid battery voltage sensor K - circuit range/
functioning

P0B6F Hybrid battery voltage sensor K - circuit low

P0B70 Hybrid battery voltage sensor K - circuit high
signal

P0B71 Hybrid battery voltage sensor K - circuit intermittent/erratic

P0B72 Hybrid battery voltage sensor L - circuit malfunction

P0B73 Hybrid battery voltage sensor L - range /
functioning

P0B74 Hybrid battery voltage sensor L - circuit low

P0B75 Hybrid battery voltage sensor L - high
signal

P0B76 Hybrid battery voltage sensor L - intermittent/
missing contact of the electrical circuit

P0B77 M hybrid battery voltage sensor - circuit malfunction

P0B78 Hybrid battery voltage sensor M - circuit range/performance

P0B79 Hybrid battery voltage sensor M - circuit low

P0B7A Hybrid battery voltage sensor M - circuit high
signal

P0B7B Hybrid battery voltage sensor M - intermittent/
missing contact of the electrical circuit

P0B7C Hybrid battery voltage sensor N - circuit malfunction

P0B7D Hybrid battery voltage N sensor circuit range/performance

P0B7E Hybrid battery voltage sensor N - circuit low

P0B7F Hybrid battery voltage sensor N - high

signal

P0B80 Hybrid battery voltage sensor N - circuit intermittent/erratic

P0B81 Hybrid battery voltage sensor O - circuit malfunction

P0B82 Hybrid battery voltage sensor O - circuit range/
functioning

P0B83 Hybrid battery voltage sensor O - circuit low

P0B84 Hybrid battery voltage sensor O - high

signal

P0B85 Hybrid battery voltage sensor O - circuit intermittent/erratic

P0B86 Hybrid battery voltage sensor P - circuit malfunction

P0B87 Hybrid battery voltage sensor P - range /
functioning

P0B88 Hybrid battery voltage sensor P - circuit low

P0B89 Hybrid battery voltage sensor P - circuit high

signal

P0B8A Hybrid battery voltage sensor P - intermittent/
missing contact of the electrical circuit

P0B8B Hybrid battery voltage sensor Q - circuit malfunction

CODE	DECRYPTION
	P0B8C Hybrid battery voltage sensor Q - circuit range/performance
	P0B8D Hybrid battery voltage sensor Q - circuit low
	P0B8E Hybrid battery voltage sensor Q - high signal
	P0B8F Hybrid battery voltage sensor Q - circuit intermittent/erratic
	P0B90 Hybrid battery voltage sensor R - circuit malfunction
	P0B91 Hybrid battery voltage sensor R - circuit range/performance
	P0B92 Hybrid battery voltage sensor R - circuit low
	P0B93 Hybrid battery voltage sensor R - circuit high signal
	P0B94 Hybrid battery voltage sensor R - circuit intermittent/erratic
	P0B95 S hybrid battery voltage sensor - circuit malfunction
	P0B96 S hybrid battery voltage sensor circuit range/performance
	P0B97 S hybrid battery voltage sensor - circuit low
	P0B98 S hybrid battery voltage sensor - circuit high signal
	P0B99 S hybrid battery voltage sensor - intermittent/ missing contact of the electrical circuit
	P0B9A Hybrid battery voltage sensor T - circuit malfunction
	P0B9B Hybrid battery voltage T sensor - range/ functioning

CODE	DECRYPTION
P0B9C	Hybrid battery voltage sensor T - circuit low
P0B9D	Hybrid battery voltage sensor T - high signal
P0B9E	Hybrid battery voltage T sensor - intermittent/ missing contact of the electrical circuit
P0B9F	Hybrid battery voltage sensor U - circuit malfunction
P0BA0	Hybrid battery voltage sensor U - circuit range/performance
P0BA1	Hybrid battery voltage sensor U - circuit low
P0BA2	Hybrid battery voltage sensor U - high signal
P0BA3	Hybrid battery voltage sensor U - circuit intermittent/erratic
P0BA4	Hybrid battery voltage sensor V - circuit malfunction
P0BA5	Hybrid battery voltage sensor V - circuit range/performance
P0BA6	Hybrid battery voltage sensor V - circuit low
P0BA7	Hybrid battery voltage sensor V - high signal
P0BA8	Hybrid battery voltage sensor V - circuit intermittent/erratic
P0BA9	Hybrid battery voltage sensor W - circuit malfunction
P0BAA	Hybrid battery voltage W sensor circuit range/performance
P0BAB	Hybrid battery voltage sensor W - circuit low

CODE	DECRYPTION
	P0BAC Hybrid battery voltage sensor W - high signal
	P0BAD Hybrid battery voltage sensor W - circuit intermittent/erratic
	P0BAE Hybrid battery voltage sensor X - circuit malfunction
	P0BAF Hybrid battery voltage sensor X - range / functioning
	P0BB0 Hybrid battery voltage sensor X - circuit low
	P0BB1 Hybrid battery voltage sensor X - high signal
	P0BB2 Hybrid battery voltage sensor X - intermittent / missing contact of the electrical circuit
	P0BB3 Y hybrid battery voltage sensor - circuit malfunction
	P0BB4 Y hybrid battery voltage sensor - circuit range/ functioning
	P0BB5 Hybrid battery voltage sensor Y - circuit low
	P0BB6 Y hybrid battery voltage sensor - high signal
	P0BB7 Y hybrid battery voltage sensor - intermittent/ missing contact of the electrical circuit
	P0BB8 Z hybrid battery voltage sensor - circuit malfunction
	P0BB9 Hybrid battery voltage sensor Z - circuit range/performance
	P0BBA Z hybrid battery voltage sensor - circuit low
	P0BBB Z hybrid battery voltage sensor - high signal

CODE	DECRYPTION
P0BBC	Hybrid battery voltage sensor Z - circuit intermittent/erratic
P0BBD	Hybrid battery pack - voltage change limit reached
P0BBE	Hybrid battery - voltage change
P0BBF	Hybrid Battery, Cooling Fan - Circuit Malfunction nutrition
P0BC0	Hybrid battery, cooling fan - voltage low nutrition
P0BC1	Hybrid Battery, Cooling Fan High Voltage food
P0BC2	Hybrid battery temperature sensor E - circuit malfunction
P0BC3	Hybrid battery temperature sensor E - circuit range/performance
P0BC4	Hybrid battery temperature sensor E - circuit low
P0BC5	Hybrid battery temperature sensor E - circuit high signal
P0BC6	Hybrid battery temperature sensor E - circuit intermittent/erratic
P0BC7	Hybrid battery pack cooling fan sensor - open circuit
P0BC8	Hybrid battery pack cooling fan sensor - circuit range/ functioning
P0BC9	Hybrid battery pack cooling fan sensor - low signal level
P0BCA	Hybrid battery pack cooling fan sensor - high signal level
P0BCB	Hybrid battery, cooling fan sensor - intermittent/ missing contact of the electrical circuit

P0BCC Generator temperature sensor - circuit malfunction

P0BCD Generator inverter temperature sensor - circuit range/performance

P0BCE Generator inverter temperature sensor - circuit low

P0BCF Generator temperature sensor - circuit high

P0BD0 Generator inverter temperature sensor - intermittent/erratic signal

P0BD1 Drive motor inverter C temperature sensor - malfunction
electrical circuit

P0BD2 Drive motor inverter temperature sensor C - circuit range/
functioning

P0BD3 Drive motor inverter temperature sensor C - low
signal

P0BD4 Drive motor inverter temperature sensor C - high
signal level

P0BD5 Drive motor inverter temperature sensor C - circuit intermittent/erratic

P0BD6 Drive motor inverter temperature sensor D - malfunction
electrical circuit

P0BD7 Drive motor inverter temperature sensor D - circuit range/
functioning

P0BD8 Drive motor inverter temperature sensor D - low
signal

P0BD9 Drive motor inverter temperature sensor D - high
signal level

P0BDA Drive motor inverter temperature sensor D - circuit intermittent/erratic

P0BDB Drive motor inverter temperature sensor E - malfunction
electrical circuit

CODE	DECRYPTION
P0BDC	Drive motor inverter temperature sensor E - circuit range/performance
P0BDD	Drive motor inverter temperature sensor E - low signal
P0BDE	Drive motor inverter temperature sensor E - high signal level
P0BDF	Drive motor inverter temperature sensor E - circuit intermittent/erratic
P0BE0	Drive motor inverter temperature sensor F - malfunction electrical circuit
P0BE1	Drive motor inverter temperature sensor F - circuit range/performance
P0BE2	Drive motor inverter temperature sensor F - low signal
P0BE3	Drive motor inverter temperature sensor F - high signal level
P0BE4	Drive motor inverter temperature sensor F - circuit intermittent/erratic
P0BE5	Drive motor A, phase U current sensor - circuit malfunction
P0BE6	Drive motor A, phase U current sensor - range / functioning
P0BE7	Drive motor A, phase U current sensor - circuit low
P0BE8	Drive motor A, phase U current sensor - circuit high
P0BE9	Drive motor A, phase V current sensor - circuit malfunction
P0BEA	Drive motor A, phase V current sensor - range/ functioning
P0BEB	Drive motor A, phase V current sensor - circuit low

P0BEC Drive motor A, phase V current sensor circuit high

P0BED Drive motor A W phase current sensor - circuit malfunction

P0BEE Drive motor A, phase W current sensor - range/
functioning

P0BEF Drive motor A W phase current sensor circuit low

P0BF0 Traction motor A, phase W current sensor - circuit high

P0BF1 Drive motor B, phase U current sensor - circuit malfunction

P0BF2 Drive motor B, phase U current sensor - circuit range/
functioning

P0BF3 Traction motor B, phase U current sensor - circuit low

P0BF4 Traction motor B, phase U current sensor - circuit high

P0BF5 Traction motor B, phase V current sensor - circuit malfunction

P0BF6 Drive motor B, phase V current sensor - circuit range/
functioning

P0BF7 Traction motor B, phase V current sensor - circuit low

P0BF8 Traction motor B, phase V current sensor - circuit high

P0BF9 Traction motor B, phase W current sensor - circuit malfunction

P0BFA Drive motor B, phase W current sensor - range/
functioning

P0BFB Drive motor B, phase W current sensor - circuit low

P0BFC Drive motor B phase W current sensor circuit high

P0BFD Drive motor A U/V/W phase current sensor - correlation

P0BFE Drive motor B U/V/W phase current sensor - correlation

P0BFF Traction motor A - incorrect current

P0C00 Traction motor A - low current

P0C01 Traction motor A - high current

P0C02 Traction motor B - incorrect current

P0C03 Traction motor B - low current

P0C04 Traction motor B - high current

P0C05 Traction motor A, phase U / V / W - open circuit

P0C06 Traction motor A, phase U / V / W - circuit low

P0C07 Traction motor A, phase U / V / W - circuit high

P0C08 Traction motor B, phase U / V / W - open circuit

P0C09 Traction motor B, phase U / V / W - circuit low

P0C0A Drive motor B, phase U/V/W - circuit high

P0C0B Traction motor A, inverter - power circuit malfunction

P0C0C Drive motor A, inverter - circuit low

food

P0C0D Drive motor A, inverter - circuit high

nutrition

P0C0E Drive motor B, inverter - power circuit malfunction

P0C0F Drive motor B, inverter - circuit low

food

P0C10 Traction motor B, inverter - circuit high

food

P0C11 Traction motor A, inverter, phase U - overtemperature

P0C12 Traction motor A, inverter, phase V - overtemperature

P0C13 Traction motor A, inverter, phase W - overtemperature

P0C14 Traction motor B, inverter, phase U - overtemperature

P0C15 Traction motor B, inverter, phase V - overtemperature

P0C16 Traction motor B, inverter, phase W - overtemperature

P0C17 Drive motor position sensor A - calibration failed

P0C18 Drive motor position sensor B - calibration failed

P0C19 Traction motor A - torque transmission

P0C1A Traction motor B - torque transmission

P0C1B Auxiliary transmission fluid pump, control module -
too high internal temperature

P0C1C Auxiliary transmission fluid pump, control module, internal temperature sensor
- circuit malfunction

P0C1D Auxiliary transmission fluid pump, control module, internal temperature sensor
- circuit range/performance

P0C1E Auxiliary transmission fluid pump, control module,
internal temperature sensor - low signal level

P0C1F Auxiliary transmission fluid pump, control module,
internal temperature sensor - high signal level

P0C20 Auxiliary transmission fluid pump, phase U / V / W - open
chains

P0C21 Auxiliary transmission fluid pump, phase U/V/W - low
signal level

P0C22 Auxiliary transmission fluid pump, phase U/V/W - high
signal level

P0C23 Auxiliary transmission fluid pump control module - open circuit

P0C24 Auxiliary transmission fluid pump control module - circuit low

P0C25 Auxiliary transmission fluid pump, control module -
high signal level

P0C26 Auxiliary transmission fluid pump motor -
no current

P0C27 Auxiliary transmission fluid pump motor - low current

P0C28 Auxiliary transmission fluid pump motor - current high

P0C29 Auxiliary transmission fluid pump motor,
amplifier circuit - electrical circuit malfunction

P0C2A Auxiliary transmission fluid pump motor -
motor stopped

P0C2B Auxiliary transmission fluid pump control module - control circuit malfunction

P0C2C Auxiliary transmission fluid pump control module - control circuit range/
performance

P0C2D Auxiliary transmission fluid pump control module - control circuit low

P0C2E Auxiliary transmission fluid pump control module - control circuit high

P0C2F Internal control module, drive motor/generator, crankshaft speed sensor -
performance problem

P0C30 Hybrid battery - high charge

P0C31 Inverter B, cooling system - operation

P0C32 Hybrid battery pack, cooling system - performance problem

P0C33 Hybrid battery temperature sensor F - circuit malfunction

P0C34 Hybrid battery temperature sensor F - circuit range/performance

P0C35 Hybrid battery temperature sensor F - circuit low

P0C36 Hybrid battery temperature sensor F - circuit high
signal

P0C37 Hybrid battery temperature sensor F - circuit intermittent/erratic

P0C38 DC / DC converter A temperature sensor - electrical malfunction
chains

P0C39 DC/DC converter temperature sensor A - circuit range/performance

P0C3A DC/DC converter A temperature sensor - circuit low

P0C3B DC/DC converter temperature sensor A - circuit high

P0C3C DC/DC converter temperature sensor A - intermittent/intermittent
electrical circuit contact

P0C3D DC/DC converter B temperature sensor - circuit malfunction

P0C3E DC/DC converter temperature sensor B - circuit range/performance

P0C3F DC/DC converter B temperature sensor - circuit low

P0C40 DC/DC converter temperature sensor B - circuit high

P0C41 DC/DC converter B temperature sensor - intermittent/intermittent
electrical circuit contact

P0C42 Hybrid battery coolant temperature sensor -
electrical circuit malfunction

P0C43 Hybrid battery coolant temperature sensor -
range/performance

P0C44 Hybrid battery coolant temperature sensor - circuit low

P0C45 Hybrid battery coolant temperature sensor - circuit high

P0C46 Hybrid battery coolant temperature sensor - circuit intermittent/erratic

P0C47 Hybrid battery pack coolant pump control - open circuit

P0C48 Hybrid battery pack water pump control circuit low

P0C49 Hybrid battery pack water pump control circuit high

P0C4A Hybrid battery pack water pump control -
functioning

P0C4B Hybrid battery, coolant pump - no
supply voltage

P0C4C Hybrid battery, coolant pump - low
supply voltage

P0C4D Hybrid battery, water pump - high
supply voltage

P0C4E Drive motor A - position adaptation limit reached

P0C4F Drive motor B - position adaptation limit reached

P0C50 Drive motor A position sensor, circuit A - circuit malfunction

P0C51 Drive motor A position sensor, circuit A - circuit range/performance

P0C52 Drive motor A position sensor, circuit A - low
signal

P0C53 Drive motor A position sensor circuit A high
signal

P0C54 Drive motor A position sensor, circuit A - circuit intermittent/erratic

P0C55 Drive motor B position sensor circuit A - circuit malfunction

P0C56 Drive motor B position sensor, circuit A - circuit range/performance

P0C57 Drive motor B position sensor, circuit A - low

signal

P0C58 Drive motor B position sensor circuit A high

signal

P0C59 Drive motor B position sensor, circuit A - circuit intermittent/erratic

P0C5A Drive motor B position sensor circuit A - circuit malfunction

P0C5B Drive motor B position sensor, circuit A - circuit range/performance

P0C5C Drive motor B position sensor, circuit A - low

signal

P0C5D Drive motor A position sensor, circuit B - high

signal

P0C5E Drive motor A position sensor, circuit B - circuit intermittent/erratic

P0C5F Drive motor B position sensor, circuit B - circuit malfunction

P0C60 Drive motor B position sensor, circuit B - circuit range/performance

P0C61 Drive motor B position sensor, circuit B - low

signal

P0C62 Drive motor B position sensor, circuit B - high

signal

P0C63 Drive motor B position sensor, circuit B - circuit intermittent/erratic

P0C64 Generator position sensor, circuit A - circuit malfunction

P0C65 Generator position sensor, circuit A - circuit range/performance

P0C66 Generator position sensor circuit A - circuit low

P0C67 Generator position sensor, circuit A - circuit high

P0C68 Generator position sensor circuit A - intermittent/erratic contact
electrical circuit

P0C69 Alternator position sensor, circuit B - circuit malfunction

P0C6A Generator position sensor, circuit B - circuit range/performance

P0C6B Generator position sensor, circuit B - circuit low

P0C6C Generator position sensor, circuit B - circuit high

P0C6D Alternator position sensor, circuit B - intermittent/erratic contact
electrical circuit

P0C6E Hybrid A/B battery temperature sensor - correlation

P0C6F Hybrid B/C battery temperature sensor - correlation

P0C70 C/D hybrid battery temperature sensor - correlation

P0C71 D/E hybrid battery temperature sensor - correlation

P0C72 E/F hybrid battery temperature sensor - correlation

P0C73 Voltage converter coolant pump A, control - function

P0C74 Voltage converter coolant pump B control - performance

P0C75 Hybrid battery system - discharge time too short

P0C76 Hybrid battery system - discharge time too long

P0C77 Hybrid battery system - time too short pre-charge
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P0C78 Hybrid battery system - time too long pre-charge

P0C79 Traction motor A, inverter - voltage too high

P0C7A Drive motor B, inverter - voltage too high
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P0C7B Generator inverter voltage too high

P0C7C Hybrid battery temperature sensor G - circuit malfunction

P0C7D Hybrid battery pack G temperature sensor circuit range/performance
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P0C7E Hybrid battery temperature sensor G - circuit low

P0C7F Hybrid battery temperature sensor G - circuit high signal
--

P0C80 Hybrid battery temperature sensor G - circuit intermittent/erratic
--

P0C81 Hybrid battery temperature sensor H - circuit malfunction

P0C82 Hybrid battery temperature sensor H - circuit range/performance

P0C83 Hybrid battery temperature sensor H - low signal

P0C84 Hybrid battery temperature sensor H - circuit high signal
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P0C85 Hybrid battery temperature sensor H - circuit intermittent/erratic
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P0C86 F/G hybrid battery temperature sensor - correlation

P0C87 G/H hybrid battery temperature sensor - correlation

P0C88 Hybrid battery temperature sensor I - circuit malfunction

P0C89 Hybrid battery temperature sensor I - circuit range/performance

P0C8A Hybrid battery temperature sensor I - circuit low

P0C8B Hybrid battery temperature sensor I - circuit high
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signal

P0C8C Hybrid battery temperature sensor I - circuit intermittent/erratic
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P0C8D Hybrid battery temperature sensor J - circuit malfunction

P0C8E Hybrid battery temperature sensor J - circuit range/performance

P0C8F Hybrid battery temperature sensor J - circuit low

P0C90 Hybrid battery temperature sensor J - circuit high
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signal

P0C91 Hybrid battery temperature sensor J - circuit intermittent/erratic
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P0C92 Hybrid battery temperature sensor K - circuit malfunction

P0C93 Hybrid battery temperature sensor K - circuit range/performance

P0C94 Hybrid battery temperature sensor K - circuit low

P0C95 Hybrid battery temperature sensor K - circuit high
--

signal

P0C96 Hybrid battery temperature sensor K - circuit intermittent/erratic
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P0C97 Hybrid battery temperature sensor L - circuit malfunction

P0C98 Hybrid battery temperature sensor L - circuit range/performance

P0C99 Hybrid battery temperature sensor L - circuit low

P0C9A Hybrid battery temperature sensor L - high
signal

P0C9B Hybrid battery temperature sensor L - circuit intermittent/erratic

P0C9C Power module current sensor (14 V) B - circuit malfunction

P0C9D Power module current sensor (14V) B - circuit range/performance

P0C9E Power module current sensor (14 V) B - circuit low

P0C9F Power module current sensor (14 V) B - circuit high

P0CA0 Power module current sensor (14 V) B - unreliable electrical contact
chains

P0CA1 Traction motor control module - indicator activation request
malfunctions

P0CA2 DC/DC converter voltage step down - performance problem

P0CA3 DC/DC converter voltage boost - performance problem

P0CA4 Hybrid battery system voltage too high
charging

P0CA5 Hybrid battery system voltage too high
detente

P0CA6 Hybrid battery system - charging current too high

P0CA7 Hybrid battery system - discharge current too high

P0CA8 Hybrid battery temperature sensor M - circuit malfunction

P0CA9 Hybrid battery temperature sensor M - circuit range/performance

CODE	DECRYPTION
	P0CAA Hybrid battery pack temperature sensor M - low signal
	P0CAB Hybrid battery pack temperature sensor M - high signal
	P0CAC M hybrid battery temperature sensor - intermittent/ missing contact of the electrical circuit
	P0CAD Hybrid battery temperature sensor N - circuit malfunction
	P0CAE Hybrid battery pack N temperature sensor circuit range/performance
	P0CAF Hybrid battery temperature sensor N - low signal
	P0CB0 Hybrid battery temperature sensor N - high signal
	P0CB1 Hybrid battery temperature sensor N - circuit intermittent/erratic
	P0CB2 Hybrid battery temperature sensor O - circuit malfunction
	P0CB3 Hybrid battery temperature sensor O - circuit range/performance
	P0CB4 Hybrid battery temperature sensor O - low signal
	P0CB5 Hybrid battery temperature sensor O - high signal
	P0CB6 Hybrid battery temperature sensor O - circuit intermittent/erratic
	P0CB7 Hybrid battery temperature sensor P - circuit malfunction
	P0CB8 Hybrid battery temperature sensor P - circuit range/performance

CODE	DECRYPTION
	P0CB9 Hybrid battery temperature sensor P - circuit low
	P0CBA Hybrid battery temperature sensor P - high signal
	P0CBB Hybrid battery temperature sensor P - intermittent/ missing contact of the electrical circuit
	P2000 NOx storage bank 1 efficiency below requirement
P2001	NOx tank, bank 2 - less than required efficiency
	P2002 Diesel Particulate Filter Bank 1 Efficiency Less Than Required
	P2003 Diesel particulate filter bank 2 performance below specification
	P2004 Intake manifold geometry actuator bank 1 - actuator stuck in open position
	P2005 Intake manifold geometry actuator bank 2 - actuator stuck in open position
	P2006 Intake manifold geometry actuator bank 1 - actuator stuck in closed position
	P2007 Intake manifold geometry actuator bank 2 - actuator stuck in closed position
	P2008 Intake Manifold Geometry Actuator Bank 1 Open chains
	P2009 Intake Manifold Geometry Actuator Bank 1 - Low signal level
	P200A Intake manifold geometry actuator bank 1 - performance problems
	P200B Intake manifold geometry actuator bank 2 - performance problems
	P200C Diesel Particulate Filter Bank 1 Overheating Condition
	P200D Diesel particulate filter (DPF) bank 2 - overheating condition

CODE	DECRYPTION
P200E	Catalytic Converter Bank 1 Overheat Condition
P200F	Catalytic Converter Bank 2 Overheat Condition
P2010	Intake manifold geometry actuator bank 1 - high signal level
P2011	Intake manifold geometry change actuator, bank 2 - open chains
P2012	Intake Manifold Geometry Actuator Bank 2 - Low signal level
P2013	Intake manifold geometry control actuator bank 2 - high signal level
P2014	Geometry change actuator position sensor/switch intake manifold bank 1 circuit malfunction
P2015	Intake manifold geometry actuator position sensor/switch bank 1 circuit range/ performance
P2016	Geometry Change Actuator Position Sensor/Switch intake manifold bank 1 low
P2017	Geometry change actuator position sensor/switch intake manifold bank 1 high
P2018	Intake manifold geometry actuator position sensor/switch bank 2 circuit intermittent
P2019	Geometry change actuator position sensor/switch intake manifold bank 2 circuit malfunction
P201A	Reductant injector 1, bank 2 - range/performance
P201B	Intake manifold geometry control actuator bank 1 - low supply voltage
P201C	Intake manifold geometry control actuator bank 2 - low supply voltage
P201D	Intake manifold geometry actuator bank 1 - internal malfunction

P201E Intake manifold geometry actuator bank 2 -
internal malfunction

P2020 Intake manifold geometry actuator position sensor/switch bank 2 circuit range/
performance

P2021 Intake Manifold Runner Position Sensor/Switch Bank 2 Low

P2022 Geometry change actuator position sensor/switch
intake manifold bank 2 - signal high

P2023 Intake Manifold Runner Position Sensor/Switch Bank 2 Intermittent

P2024 Evaporative emission system, fuel vapor temperature sensor -
electrical circuit malfunction

P2025 Evaporative emission system, fuel vapor temperature sensor -
range/performance

P2026 Evaporative emission system, fuel vapor temperature sensor -
low voltage

P2027 Evaporative emission system, fuel vapor temperature sensor -
high voltage

P2028 Evaporative emission system, fuel vapor temperature sensor - circuit intermittent

P2029 Auxiliary heater (fuel type) - system disabled

P202A Reductant tank heater control - open circuit

P202B Reductant tank heater control - circuit low

P202C Reductant tank heater control - circuit high

P202D Reductant leaks

P202E Reductant injector range/performance

P202F Reductant supply control - range / performance

P2030 Auxiliary heater (fuel type) - performance

P2031 Exhaust gas temperature sensor 2, bank 1 - circuit malfunction

P2032 Exhaust gas temperature sensor 2, bank 1 circuit low

P2033 Exhaust gas temperature sensor 2, bank 1 circuit high

P2034 Exhaust gas temperature sensor 2, bank 2 - circuit malfunction

P2035 Exhaust gas temperature sensor 2, bank 2 - circuit low

P2036 Exhaust Gas Temperature Sensor 2 Bank 2 Circuit High

P2037 Reductant injection air pressure sensor - circuit malfunction

P2038 Reductant injection air pressure sensor - circuit range/
functioning

P2039 Reductant injection air pressure sensor - input low
signal

P203A Reductant level sensor - circuit malfunction

P203B Reductant level sensor - circuit range/performance

P203C Reductant level sensor - circuit low

P203D Reductant level sensor - high signal

P203E Reductant level sensor - intermittent / erratic signal

P203F Reductant level - low

P2040 Reductant injection air pressure sensor - high input
signal

P2041 Reductant injection air pressure sensor - circuit intermittent

P2042 Reductant temperature sensor - circuit malfunction

P2043 Reductant Temperature Sensor - Range/Performance

P2044 Reductant temperature sensor - input low

P2045 Reductant Temperature Sensor - High Input

P2046 Reductant temperature sensor - unreliable electrical contact
chains

P2047 Reductant injector 1, bank 1 - open circuit

P2048 Reductant Injector 1 Bank 1 Circuit Low

P2049 Reductant Injector 1 Bank 1 Circuit High

P204A Reductant pressure sensor - circuit malfunction

P204B Reductant pressure sensor - circuit range/performance

P204C Reductant pressure sensor - circuit low

P204D Reductant pressure sensor - circuit high

P204E Reductant pressure sensor - intermittent / erratic signal

P204F Recovery system, bank 1 - performance

P2050 Reductant injector 1, bank 2 - open circuit

P2051 Reductant Injector 1 Bank 2 Circuit Low

P2052 Reductant Injector 1 Bank 2 Circuit High

P2053 Reductant injector 2, bank 1 - open circuit

P2054 Reductant Injector 2 Bank 1 Circuit Low

P2055 Reductant Injector 2 Bank 1 Circuit High

P2056 Reductant injector 2, bank 2 - open circuit

P2057 Reductant Injector 2 Bank 2 Circuit Low

P2058 Reductant Injector 2 Bank 2 Circuit High

P2059 Recovery air pump - open circuit

P205A Reductant temperature sensor - circuit malfunction

P205B Reductant temperature sensor - circuit range/performance

P205C Reductant temperature sensor - circuit low

P205D Reductant temperature sensor - circuit high

P205E Reductant temperature sensor - intermittent / erratic signal

P205F Recovery system, bank 2 - performance problems

P2060 Recovery air pump - signal low

P2061 Recovery air pump - signal high

P2062 Reductant supply control - open circuit

P2063 Reductant supply control - signal low

P2064 Reductant supply control - high signal

P2065 Fuel gauge sensor B - circuit malfunction

P2066 Fuel gauge sensor B - performance

P2067 Fuel gauge sensor B - circuit low

P2068 Fuel Level Sensor B - Circuit High

P2069 Fuel gauge sensor B - circuit intermittent

P206A Reductant quality sensor - malfunction

P206B Reductant Quality Sensor - Range/Performance Problems

P206C Reductant quality sensor - low signal

P206D Reductant quality sensor - high signal

P206E Intake manifold geometry actuator bank 2 - actuator stuck in
open position

P206F Intake manifold geometry actuator bank 2 - actuator stuck in closed position
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P2070 Intake manifold geometry change actuator - actuator stuck in open position
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P2071 Intake manifold geometry change drive - drive stuck in closed position
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P2072 Throttle actuator control system - actuator stuck

P2073 Manifold absolute pressure sensor/air flow sensor (MAF) - throttle position

P2074 Manifold absolute pressure sensor/air flow sensor (MAF) - throttle position

P2075 Geometry change actuator position sensor/switch intake manifold - electrical circuit malfunction
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P2076 Variable geometry intake actuator position sensor/switch - circuit range/performance
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P2077 Geometry change actuator position sensor/switch intake manifold - signal low
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P2078 Geometry change actuator position sensor/switch intake manifold - high signal level

P2079 Intake manifold geometry change actuator position sensor/switch - circuit intermittent
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P207A Geometry change actuator position sensor/switch intake manifold bank 2 circuit malfunction
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P207B Intake manifold geometry actuator position sensor/switch bank 2 circuit range/performance

P207C Geometry Change Actuator Position Sensor/Switch intake manifold bank 2 - signal low

P207D Geometry change actuator position sensor/switch intake manifold bank 2 - signal high
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CODE	DECRYPTION
P207E	Intake manifold geometry actuator position sensor/switch, bank 2 - intermittent signal
P207F	Recovery Quality - Functioning Problems
P2080	Exhaust gas temperature sensor 1, bank 1 - range / functioning
P2081	Exhaust gas temperature sensor 1, bank 1 - circuit intermittent
P2082	Exhaust gas temperature sensor 1, bank 2 - range / functioning
P2083	Exhaust gas temperature sensor 1, bank 2 - circuit intermittent
P2084	Exhaust gas temperature sensor 2, bank 1 - range / functioning
P2085	Exhaust gas temperature sensor 2, bank 1 - circuit intermittent
P2086	Exhaust gas temperature sensor 2, bank 2 - range / functioning
P2087	Exhaust gas temperature sensor 2, bank 2 - circuit intermittent
P2088	Variable Valve Timing Actuator A Bank 1 - Low signal
P2089	Variable Valve Timing Actuator A Bank 1 High signal level
P208A	Reductant pump control - open circuit
P208B	Reductant pump control - circuit range/performance
P208C	Reductant pump control - circuit low
P208D	Reductant pump control - circuit high
P208E	Reductant injector 1, bank 1 - injector stuck closed

P208F Reductant injector 1, bank 2 - injector stuck closed

P2090 Variable Valve Timing Actuator B Bank 1 - Low

signal

P2091 Variable Valve Timing Actuator B Bank 1 High

signal level

P2092 Variable Valve Timing Actuator A Bank 2 - Low

signal

P2093 Variable Valve Timing Actuator A Bank 2 High

signal level

P2094 Variable Valve Timing Actuator B Bank 2 - Low

signal

P2095 Variable Valve Timing Actuator B Bank 2 - High

signal level

P2096 Post Catalytic Converter Fuel Balance Bank 1 Too

poor

P2097 Post Catalytic Converter Fuel Balance Bank 1 Too

rich

P2098 Post Catalytic Converter Fuel Balance Bank 2 Too

poor

P2099 Post Catalytic Converter Fuel Balance Bank 2 Too

rich

P209A Reductant injection air pressure sensor B - circuit malfunction

P209B Reductant injection air pressure sensor B - circuit range/

functioning

P209C Reductant injection air pressure sensor B - circuit low

P209D Reductant Injection Air Pressure Sensor B - High

signal

P209E Reductant injection air pressure sensor A/B - correlation

CODE	DECRYPTION
P209F	Reductant tank heater control - problems functioning
P20A0	Reductant purge control valve - open circuit
P20A1	Reductant Purge Control Valve - Operational Problems
P20A2	Reductant Purge Control Valve - Circuit Low
P20A3	Reductant Purge Control Valve - Circuit High
P20A4	Reductant purge control valve - valve stuck open position
P20A5	Reductant purge control valve - valve stuck closed position
P20A6	Reductant injection air pressure control valve - open circuit
P20A7	Reductant injection air pressure control valve - problems functioning
P20A8	Reductant injection air pressure control valve - low signal level
P20A9	Reductant injection air pressure control valve - high signal level
P20AA	Reductant injection air pressure control valve - valve stuck in the open position
P20AB	Reductant injection air pressure control valve - valve stuck in closed position
P20AC	Reductant flow measurement unit temperature sensor - circuit malfunction
P20AD	Reductant flow measurement unit temperature sensor - circuit range/performance
P20AE	Reductant flow measurement unit temperature sensor - low signal level

CODE	DECRYPTION
P20AF	Reductant flow measurement unit temperature sensor - high signal level
P20B0	Reductant flow measurement unit temperature sensor - intermittent / erratic signal
P20B1	Reductant heater cooling control valve - open circuit
P20B2	Reductant heater cooling control valve - performance problems
P20B3	Reductant Heater Cooling Control Valve - Low signal level
P20B4	Reductant heater cooling control valve - high signal level
P20B5	Reductant flow measurement block heater control - open circuit
P20B6	Reductant flow measurement block heater - control operation problems
P20B7	Reductant Flow Unit Heater - Low control signal
P20B8	Reductant Flow Unit Heater - High control signal
P20B9	Reductant heater control A - open circuit
P20BA	Reductant heater control A - performance problems chains
P20BB	Reductant heater control A - circuit low
P20BC	Reductant heater control A - circuit high
P20BD	Reductant heater control B - open circuit
P20BE	Reductant heater B control - performance problems
P20BF	Reductant heater control B - circuit low

P20C0 Reductant heater control - high signal level

P20C1 Control With reductant heater - open circuit

P20C2 Control With reductant heater - performance problems

P20C3 Control With reductant heater - circuit low

P20C4 Control With reductant heater - circuit high

P20C5 Reductant heater control D - open circuit

P20C6 Reductant heater control D - performance problems

P20C7 Reductant heater control D - circuit low

P20C8 Reductant heater control D - circuit high

P20C9 Reductant system control unit - indicator activation request
engine malfunction

P20CA Reductant injection air pressure - leak

P20CB Exhaust gas cleaning system, fuel injector A - control circuit open

P20CC Exhaust gas cleaning system, fuel injector A - problems
functioning

P20CD Exhaust gas cleaning system, fuel injector A - circuit low
control circuit signal

P20CE Exhaust gas cleaning system, fuel injector A - control circuit signal high

P20CF Exhaust gas cleaning system, fuel injector A - injector
stuck in the open position

P20D0 Exhaust gas cleaning system, fuel injector A - injector
stuck in closed position

P20D1 Exhaust gas cleaning system, fuel injector B - control circuit open

P20D2 Exhaust gas cleaning system, fuel injector B - performance problems

P20D3 Exhaust gas cleaning system, fuel injector B - circuit low
control circuit signal

P20D4 Exhaust gas cleaning system, fuel injector B - high
control circuit signal level

P20D5 Exhaust gas cleaning system, fuel injector B - injector
stuck in the open position

P20D6 Exhaust gases after injector B cleaned fuel - injector
stuck in closed position

P20D7 Exhaust gas cleaning system, fuel control - open
chains

P20D8 Exhaust gas cleaning system, fuel management - performance problems

P20D9 Exhaust gas cleaning system, fuel management - low
control circuit signal level

P20DA Exhaust gas cleaning system, fuel management - high
control circuit signal level

P20DB Exhaust gas cleaning system, fuel management - valve
stuck in open position

P20DC Exhaust gas cleaning system, fuel management - valve
stuck in closed position

P20DD Exhaust gas cleaning system, fuel pressure sensor -
circuit malfunction

P20DE Exhaust gas cleaning system, fuel pressure sensor - range/
functioning

P20DF Exhaust gas cleaning system, fuel pressure sensor - low
signal level

P20E0 Exhaust gas cleaning system, fuel pressure sensor - high
signal level

CODE	DECRYPTION
P20E1	Exhaust gas cleaning system, fuel pressure sensor - intermittent / chaotic signal
P20E2	Exhaust gas temperature sensor 1/2, bank 1 - correlation
P20E3	Exhaust gas temperature sensor 1/3, bank 1 - correlation
P20E4	Exhaust gas temperature sensor 2/3, bank 1 - correlation
P20E5	Exhaust gas temperature sensor 1/2, bank 2 - correlation
P20E6	Recovery system air pressure too low
P20E7	Recovery system air pressure too high
P20E8	Reductant pressure too low
P20E9	Reductant pressure too high
P20EA	Recovery system control unit relay - performance
P20EB	Recovery control unit relay - functioning
P20EC	NOx sensor, catalytic converter, bank 1 - overheating
P20ED	NOx sensor, pre-catalyst, bank 1 - overheating
P20EE	NOx sensor, catalytic converter, bank 1 performance below specification
P20EF	NOx sensor, pre-catalyst, bank 1 - performance below specification
P20F0	NOx sensor, catalytic converter, bank 2 - overheating
P20F1	NOx sensor, pre-converter, bank 2 - overheating
P20F2	NOx sensor, catalytic converter, bank 2 - efficiency below the required
P20F3	NOx sensor, pre-converter, bank 2 - performance below specification
P20F4	Reductant consumption - low
P20F5	Reductant consumption - high

P20F6 Reductant injector 1, bank 1 - valve stuck open

P20F7 Reductant injector 1, bank 2 - valve stuck open

P20F8 Intake manifold geometry control actuator, bank 1 - performance

P20F9 Intake manifold geometry actuator, bank 2 - performance

P20FA Reductant pump B - open circuit

P20FB Reductant Pump B - Range/Performance

P20FC Reductant Pump B - Control Circuit Low

P20FD Reductant pump B - control circuit high

P2100 Throttle actuator motor - open circuit

P2101 Throttle Actuator Motor Range/Performance

P2102 Throttle actuator motor - circuit low

P2103 Throttle actuator motor - signal high

P2104 Throttle actuator control system - forced idle

P2105 Throttle actuator control system - forced
jamming

P2106 Throttle actuator control system - forced
power limit

P2107 Throttle actuator control unit - processor error

P2108 Throttle actuator control unit - performance

P2109 Accelerator pedal position sensor A - minimum limit

P210A Throttle control unit B, control motor - open circuit

P210B Throttle control module B, control motor - range/performance

P210C Throttle control module B, control motor - circuit low
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P210D Throttle control module B, control motor - circuit high

P210E Throttle Position Sensor/Switch/Position Sensor accelerator pedal voltage C/F - correlation
--

P210F Electronic throttle control system - mode forced speed limitation
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P2110 Throttle actuator control system - forced speed limit

P2111 Throttle Actuator Control System - Actuator Stuck In open position

P2112 Throttle actuator control system - actuator stuck in closed position

P2113 Accelerator pedal position sensor B - minimum limit

P2114 Accelerator pedal position sensor C - minimum limit

P2115 Accelerator pedal position sensor D - minimum limit

P2116 Accelerator pedal position sensor E - minimum limit

P2117 Accelerator pedal position sensor F - minimum limit

P2118 Throttle Actuator Motor Current Range/Performance

P2119 Throttle actuator, throttle - range / performance

P211A Throttle actuator control system B - actuator stuck in open position

P211B Throttle actuator control system B - actuator stuck in
closed position

P211C Electronic throttle control (ETS) system current
electric motor - range / operation

P211D Electronic throttle control (ETS) housing
throttle - range / performance

P211E Throttle actuator control system B - processor error

P211F Electronic throttle control (ETS) system - performance

P2120 Accelerator pedal position sensor/switch D - circuit malfunction

P2121 Accelerator Pedal Position Sensor/Switch D - Range/Performance

P2122 Accelerator Pedal Position Sensor/Switch D - Low
input signal

P2123 Accelerator Pedal Position Sensor/Switch D - High
input signal

P2124 Accelerator Pedal Position Sensor/Switch D - Unreliable
electrical circuit contact

P2125 Accelerator pedal position sensor/switch E - circuit malfunction

P2126 Accelerator pedal position sensor/switch E - range/performance

P2127 Accelerator Pedal Position Sensor/Switch E - Low
input signal

P2128 Accelerator Pedal Position Sensor/Switch E High
input signal

P2129 Accelerator Pedal Position Sensor/Switch E - Poor Contact
electrical circuit

CODE	DECRYPTION
P212A	Throttle position sensor/switch G - circuit malfunction
P212B	Throttle position sensor/switch G - circuit range/performance
P212C	Throttle position sensor/switch G - low input signal
P212D	Throttle position sensor / switch G - high input signal
P212E	Throttle position sensor/switch G - unreliable electrical circuit contact
P212F	Throttle position sensor/F/G switch - correlation voltage
P2130	Accelerator pedal position sensor/switch F - circuit malfunction
P2131	Accelerator pedal position sensor/switch F - range/performance
P2132	Accelerator Pedal Position Sensor/Switch F - Low input signal
P2133	Accelerator Pedal Position Sensor/Switch F - High input signal
P2134	Accelerator pedal position sensor / switch F - poor contact electrical circuit
P2135	Accelerator pedal position sensor/switch A/B - correlation voltage
P2136	Accelerator pedal position sensor/A/C switch - correlation voltage
P2137	Accelerator pedal position sensor/B/C switch - correlation voltage
P2138	Accelerator Pedal Position Sensor/D/E Switch - Correlation voltage

P2139 Accelerator pedal position sensor/D/F switch - correlation
voltage

P213A Damper (valve) In the exhaust gas recirculation (EGR) system - open circuit

P213B Damper (valve) In exhaust gas recirculation (EGR) systems -
control circuit range/performance

P213C Damper (valve) In the exhaust gas recirculation (EGR) system - signal low
management

P213D Damper (valve) In the exhaust gas recirculation (EGR) system - high
control signal

P213E Fuel Injection System Malfunction - Forced Stop
engine

P213F Fuel Pump System Malfunction - Forced Stop
engine

P2140 Accelerator Pedal Position Sensor/E/F Switch - Correlation
voltage

P2141 EGR damper control valve - low
level

P2142 Exhaust gas recirculation (EGR) damper control valve - high
level

P2143 Exhaust gas recirculation (EGR) ventilation control - open circuit

P2144 Exhaust gas recirculation (EGR) ventilation control - low
signal

P2145 Exhaust gas recirculation (EGR) ventilation control - high
signal

P2146 Injectors - group A, supply voltage - open circuit

P2147 Injectors - group A, supply voltage - low signal

P2148 Injectors - group A, supply voltage - high signal

P2149 Injectors - group B, supply voltage - open circuit

P2150 Injectors - group B, supply voltage - low signal

P2151 Injectors - group B, supply voltage - signal high

P2152 Injectors - group C, supply voltage - open circuit

P2153 Injectors - group C, supply voltage - low signal

P2154 Injectors - group C, supply voltage - signal high

P2155 Injectors - group D, supply voltage - open circuit

P2156 Injectors - group D, supply voltage - low signal

P2157 Injectors - group D, supply voltage - high signal

P2158 Vehicle speed sensor B - circuit malfunction

P2159 Vehicle speed sensor B - circuit range/performance

P215A Vehicle speed sensor/wheel speed sensor - correlation

P215B Vehicle speed sensor/output speed sensor -
correlation

P215C Vehicle speed sensor/output speed sensor -
correlation

P2160 Vehicle speed sensor B - circuit low

P2161 Vehicle speed sensor B - circuit intermittent/erratic

P2162 Vehicle speed sensor A/B - correlation

P2163 Accelerator Pedal Position Sensor A - Maximum Limit

P2164 Accelerator pedal position sensor B - maximum limit

P2165 Accelerator Pedal Position Sensor C - Maximum Limit

P2166 Accelerator pedal position sensor D - maximum limit

P2167 Accelerator pedal position sensor D - maximum limit

P2168 Accelerator pedal position sensor F - maximum limit

P2169 Solenoid valve pressure regulator in the exhaust gas recirculation system (EGR) - open chains

P216A Group E fuel injector, supply voltage - open circuit

P216B Group E fuel injector, supply voltage - low voltage

P216C Group E fuel injector, supply voltage - high voltage

P216D Fuel injector group F, supply voltage - open circuit

P216E Group F fuel injector, supply voltage - low voltage

P216F Group F fuel injector, supply voltage - high voltage

P2170 Exhaust gas recirculation (EGR) pressure regulator solenoid - low signal level

P2171 Solenoid valve pressure regulator in the exhaust gas recirculation system (EGR) - high signal level

P2172 Throttle Actuator Motor - Unexpectedly Large air flow

P2173 Throttle Actuator Motor - High Air Consumption

P2174 Throttle Actuator Motor - Unexpectedly Low air flow

P2175 Throttle Actuator Motor - Low Air Consumption

P2176 Throttle actuator control system - position adaptation idling not done

P2177 Air-fuel mixture too lean, except idle, bank 1

P2178 Air-fuel mixture too rich, except at idle, bank 1

P2179 Air-fuel mixture too lean, except idle, bank 2

P217A Group G fuel injector, supply voltage - open circuit

P217B Fuel Injector Group G Supply Voltage Low

P217C Group G fuel injector supply voltage high

signal

P217D Fuel injector group H, supply voltage - open circuit

P217E Group H fuel injector, supply voltage - signal low

P217F Fuel injector group H supply voltage high

signal

P2180 Air-fuel mixture too rich, except at idle, bank 2

P2181 Operation of the cooling system

P2182 Coolant temperature sensor 2 - circuit malfunction

P2183 Coolant temperature sensor 2 - range / performance

P2184 Coolant temperature sensor 2 - circuit low

P2185 Coolant Temperature Sensor 2 - Circuit High

P2186 Coolant Temperature Sensor - Unreliable/Missing
electrical circuit contact

P2187 Air-fuel mixture too lean, idle, bank 1

P2188 Air-fuel mixture too rich, idle, bank 1

P2189 Air-fuel mixture too lean, idle, bank 2

P218A Throttle control system B - position adaptation

idling not done

P218B Throttle Actuator/Fuel Cut B - Malfunction
electrical circuit

P218C Throttle Actuator/Fuel Cut B - Range/Performance

P218D Throttle Actuator/Fuel Cut B - Low

signal

P218E Throttle Actuator/Fuel Cut B - High

signal

P2190 Air-fuel mixture too rich, idle, bank 2

P2191 Air-fuel mixture too lean, high load, bank 1
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P2192 Air-Fuel Mixture Too Rich High Load Bank 1
--

P2193 Air-fuel mixture too lean, high load, bank 2
--

P2194 Air-fuel mixture too rich, high load, bank 2
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P2195 Heated oxygen sensor 1, bank 1 - signal constantly poor

mixtures

P2196 Heated oxygen sensor 1, bank 1 - signal constantly rich

mixtures

P2197 Heated oxygen sensor 1, bank 2 - signal constantly poor

mixtures

P2198 Heated oxygen sensor 1, bank 2 - signal constantly rich

mixtures

P2199 Intake air temperature sensor 1/2 - correlation

P219A Air mixture control, bank 1 - out of range
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range

P219B Air mixture control, bank 2 - out of range
--

range

P219C Air mixture control, cylinder 1 - out of range
--

range

P219D Air mixture control, cylinder 2 - out of range
--

range

P219E Air mixture control, cylinder 3 - out of range
--

range

P219F Mixture control, cylinder 4 - out of range
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range

P21A0 Mixture control, cylinder 5 - out of range
range

P21A1 Air mixture control, cylinder 6 - out of range
range

P21A2 Mixture control, cylinder 7 - out of range
range

P21A3 Air mixture control, cylinder 8 - out of range
range

P21A4 Mixture control, cylinder 9 - out of range
range

P21A5 Mixture control, cylinder 10 - out of range
range

P21A6 Mixture control, cylinder 11 - out of range
range

P21A7 Air mixture control, cylinder 12 - out of range
range

P2200 NOx sensor, bank 1 - circuit malfunction

P2201 NOx Sensor Bank 1 Range/Performance

P2202 NOx Sensor Bank 1 - Low Input

P2203 NOx Sensor Bank 1 - High Input

P2204 NOx Sensor Bank 1 Intermittent Input

P2205 NOx Sensor Bank 1 Heater Control Open Circuit

P2206 NOx Sensor Bank 1 Heater Control Circuit Low

P2207 NOx Sensor Bank 1 Heater Control High

P2208 NOx Sensor Bank 1 Heater Control Malfunction

P2209 NOx Sensor Bank 1 Heater Control Circuit Range/Performance

P220A NOx sensor 1, bank 1 - power circuit malfunction

P220B NOx sensor 2, bank 1 - power circuit malfunction

P220C NOx sensor 1, bank 2 - power circuit malfunction

P220D NOx 2 sensor, bank 2 - power circuit malfunction

P2210 NOx Sensor Bank 1 Heater Control - Low Input

P2211 NOx Sensor Bank 1 Heater Control High Input

signal

P2212 NOx Sensor Bank 1 Heater Control Poor Contact
electrical circuit

P2213 NOx sensor, bank 2 - circuit malfunction

P2214 NOx sensor, bank 2 - range / performance

P2215 NOx Sensor Bank 2 - Input Low

P2216 NOx Sensor Bank 2 - High Input

P2217 NOx Sensor Bank 2 - Intermittent Input

P2218 NOx Sensor Bank 2 Heater Control Open Circuit

P2219 NOx Sensor Bank 2 Heater Control Circuit Low

P2220 NOx Sensor Bank 2 Heater Control High

P2221 NOx Sensor Bank 2 Heater Control Malfunction

P2222 NOx Sensor Bank 2 Heater Control Circuit Range/Performance

P2223 NOx Sensor Bank 2 Heater Control Circuit Low

P2224 NOx Sensor Bank 2 Heater Control Circuit High

P2225 NOx Sensor Bank 2 Heater Control Intermittent
electrical circuit

P2226 Atmospheric pressure sensor - electrical circuit malfunction

P2227 Atmospheric pressure sensor - range / performance problems

P2228 Atmospheric pressure sensor - signal low

P2229 Atmospheric pressure sensor - high signal

P222A Atmospheric pressure sensor B - circuit malfunction

P222B Atmospheric pressure sensor B - circuit range / performance

P222C Atmospheric pressure sensor B - circuit low

P222D Atmospheric pressure sensor B - signal high

P222E Atmospheric pressure sensor B - unreliable contact of the electrical circuit

P222F Atmospheric pressure sensor A / B - correlation

P2230 Atmospheric pressure sensor - unreliable contact of the electrical circuit

P2231 Heated oxygen sensor 1, bank 1 circuit short
 signal to heater circuit

P2232 Heated oxygen sensor 2, bank 1 - circuit short
 signal to heater circuit

P2233 Heated oxygen sensor 3, bank 1 - circuit short
 signal to heater circuit

P2234 Heated oxygen sensor 1, bank 2 - circuit short
 signal to heater circuit

P2235 Heated oxygen sensor 2, bank 2 - circuit short
 signal to heater circuit

P2236 Heated oxygen sensor 3, bank 2 - circuit short
 signal to heater circuit

P2237 Heated oxygen sensor 1, bank 1, current control (+) - open
 chains

P2238 Heated oxygen sensor 1, bank 1 current control (+) - low
 level

CODE	DECRYPTION
P2239	Heated oxygen sensor 1, bank 1 current control (+) - high level
P2240	Heated oxygen sensor 1, bank 2, current control (+) - open chains
P2241	Heated Oxygen Sensor 1 Bank 2 Current Control (+) - Low signal level
P2242	Heated oxygen sensor 1, bank 2 current control (+) - high signal level
P2243	Heated oxygen sensor 1, bank 1 voltage reference open chains
P2244	Heated oxygen sensor 1, bank 1 voltage reference - performance
P2245	Heated oxygen sensor 1, bank 1 voltage reference low level
P2246	Heated oxygen sensor 1, bank 1 voltage reference - high level
P2247	Heated oxygen sensor 1, bank 2, voltage reference - open chains
P2248	Heated oxygen sensor 1, bank 2 voltage reference - performance
P2249	Heated Oxygen Sensor 1 Bank 2 Reference Low signal level
P2250	Heated oxygen sensor 1, bank 2 voltage reference - high signal level
P2251	Heated Oxygen Sensor 1 Bank 1 Current Control (-) Open chains
P2252	Heated oxygen sensor 1, bank 1 current control (-) - low level
P2253	Heated oxygen sensor 1, bank 1, current control (-) - high level

P2254 Heated oxygen sensor 1, bank 2, current control (-) - open
chains

P2255 Heated oxygen sensor 1, bank 2 current control (-) - low
signal level

P2256 Heated oxygen sensor 1, bank 2, current control (-) - high
signal level

P2257 Exhaust air supply system control A - circuit low

P2258 Exhaust air supply system, control A - signal high

P2259 Exhaust air supply system control B - circuit low

P2260 Exhaust air supply system control B - signal high

P2261 Turbocharger/supercharger bypass valve

P2262 Turbo boost pressure not detected

P2263 Turbocharger / supercharger boost pressure - performance

P2264 Fuel filter water sensor - electrical malfunction
chains

P2265 Fuel filter water sensor circuit range/performance

P2266 Fuel filter water sensor - low signal

P2267 Fuel filter water sensor - high signal

P2268 Sensor for the presence of water in the fuel filter - unreliable contact
of the electrical circuit

P2269 Water in fuel

P226A Fuel filter water indicator - malfunction
electrical circuit

P226B Turbocharger / supercharger drive pressure too high
boost

P226C Turbo pressure control A - slow response

P226F Turbo pressure control B - slow response

P2270 Heated oxygen sensor 2, bank 1 - signal constantly poor
mixtures

P2271 Heated oxygen sensor 2, bank 1 - constantly rich signal
mixtures

P2272 Heated oxygen sensor 2, bank 2 - signal constantly poor
mixtures

P2273 Heated oxygen sensor 2, bank 2 - signal constantly rich
mixtures

P2274 Heated oxygen sensor 3, bank 1 - signal constantly poor
mixtures

P2275 Heated oxygen sensor 3, bank 1 - signal constantly rich
mixtures

P2276 Heated oxygen sensor 3, bank 2 - signal constantly poor
mixtures

P2277 Heated oxygen sensor 3, bank 2 - signal constantly rich
mixtures

P2278 Heated oxygen sensor 3, bank 1 / heated oxygen
sensor 3, bank 2 - signals mixed up

P2279 Intake system leak

P2280 Leakage / blockage of the intake system between the air filter and
air flow sensor

P2281 Leak between air flow sensor (MAF) and throttle body

P2282 Leak between throttle body and intake
valves

P2283 Injector control pressure sensor - electrical malfunction
chains

P2284 Injector control pressure sensor - circuit range / performance

P2285 Injector control pressure sensor - signal low

P2286 Injector control pressure sensor - high signal

P2287 Injector control pressure sensor - unreliable contact of the electrical circuit

P2288 Injector control pressure - pressure too high

P2289 Injector control pressure, engine off - pressure too
high

P228A Fuel pressure regulator 1 - emergency mode activated (limp-home)

P228B Fuel pressure regulator 2 - emergency mode activated (limp-home)

P228C Fuel pressure regulator 1 control limit too low - low
fuel pressure

P228D Fuel pressure regulator 1, control limit exceeded - high
fuel pressure

P228E Fuel pressure regulator 1, adaptation limit exceeded - signal level too low

P228F Fuel pressure regulator 1, adaptation limit exceeded - signal level too high

P2290 Injector control pressure - pressure too low

P2291 Injector control pressure, starter cranking - pressure
too low

P2292 Injector control pressure sensor - chaotic signal

P2293 Fuel pressure regulator 2 - operation

P2294 Fuel pressure regulator 2 - circuit malfunction

P2295 Fuel pressure regulator 2 - signal low

P2296 Fuel pressure regulator 2 - signal high

P2297 Heated oxygen sensor 1, bank 1 - signal out of range on deceleration

P2298 Heated oxygen sensor 1, bank 2 - signal out of range on deceleration

P2299 Stop Lamp Switch (Brake Pedal Position Sensor) / Sensor
accelerator pedal positions - incompatible signals

P229A Fuel pressure regulator 2, control limit exceeded - low
fuel pressure

P229B Fuel Pressure Regulator 2 Control Limit Exceeded - High
fuel pressure

P229C Fuel pressure regulator 2 adaptation limit exceeded - signal too low

P229D Fuel pressure regulator 2, adaptation limit exceeded - too
high signal level

P229E NOx 2 sensor, bank 1 - circuit malfunction

P229F NOx sensor 2, bank 1 - range / performance

P22A0 NOx sensor 2, bank 1 - low

P22A1 NOx sensor 2, bank 1 - high

P22A2 NOx sensor 2, bank 1 - intermittent / erratic signal

P22A3 NOx sensor 2, bank 1, heater control - open circuit

P22A4 NOx sensor 2, bank 1, heater control - circuit low

P22A5 NOx 2 sensor, bank 1, heater control - circuit high

P22A6 NOx sensor 2, bank 1, heater control - malfunction

P22A7 NOx 2 sensor, bank 1, heater control - circuit range/performance

P22A8 NOx sensor 2, bank 1, heater control - circuit low

P22A9 NOx Sensor 2 Bank 1 Heater Control Circuit High

CODE	DECRYPTION
P22AA	NOx sensor 2, bank 1, heater control - circuit intermittent
P22AB	Heated oxygen sensor 2, bank 1, current control (+) - open chains
P22AC	Heated oxygen sensor 2, bank 1 current control (+) - low signal level
P22AD	Heated oxygen sensor 2, bank 1 current control (+) - high signal level
P22AE	Heated oxygen sensor 2, bank 1 voltage reference open chains
P22AF	Heated oxygen sensor 2, bank 1 voltage reference - performance problem
P22B0	Heated oxygen sensor 2, bank 1 reference voltage low signal level
P22B1	Heated oxygen sensor 2, bank 1 voltage reference - high signal level
P22B2	Heated oxygen sensor 2, bank 1, current control (-) - open chains
P22B3	Heated oxygen sensor 2, bank 1 current control (-) - low signal level
P22B4	Heated oxygen sensor 2, bank 1 current control (-) - high signal level
P22B5	Heated oxygen sensor 2, bank 1 pump current - open circuit
P22B6	Heated oxygen sensor 2, bank 1, pump current - low signal
P22B7	Heated oxygen sensor 2, bank 1 pump current high signal
P22B8	Heated oxygen sensor 2, bank 2, current control (+) - open chains

P22B9 Heated oxygen sensor 2, bank 2, current control (+) - low
signal level

P22BA Heated oxygen sensor 2 bank 2 current control (+) -
high signal level

P22BB Heated oxygen sensor 2, bank 2 voltage reference open
chains

P22BC Heated oxygen sensor 2, bank 2 voltage reference - performance problem

P22BD Heated oxygen sensor 2, bank 2 reference - low
signal level

P22BE Heated oxygen sensor 2, bank 2 voltage reference -
high signal level

P22BF Heated oxygen sensor 2, bank 2, current control (-) - open
chains

P22C0 Heated oxygen sensor 2, bank 2, current control (-) - low
signal level

P22C1 Heated oxygen sensor 2, bank 2, current control (-) - high
signal level

P22C2 Heated oxygen sensor 2, bank 2, pump current - open circuit

P22C3 Heated oxygen sensor 2, bank 2, pump current - low
signal

P22C4 Heated oxygen sensor 2, bank 2 pump current high
signal

P22C5 Turbocharger exhaust valve - control circuit open

P22C6 Turbocharger exhaust valve - circuit low
management

P22C7 Turbocharger exhaust valve - circuit high
management

P22C8 Turbocharger exhaust valve - valve stuck open
position

P22C9 Turbocharger exhaust valve - valve stuck closed
position

P22CA Turbocharger exhaust changeover valve - open circuit
management

P22CB Turbocharger exhaust changeover valve - low
signal in the control circuit

P22CC Turbocharger Exhaust Switchover Valve - High
signal in the control circuit

P22CD Turbocharger exhaust changeover valve - valve stuck in
open position

P22CE Turbocharger exhaust changeover valve - valve stuck in
closed position

P22CF Turbocharger intake valve - control circuit open

P22D0 Turbocharger intake valve - circuit low
management

P22D1 Turbocharger intake valve - circuit high
management

P22D2 Turbocharger intake valve - valve stuck open
position

P22D3 Turbocharger intake valve - valve stuck closed
position

P22D4 Turbocharger intake valve position sensor - circuit malfunction

P22D5 Turbocharger intake valve position sensor circuit range/performance

P22D6 Turbocharger intake valve position sensor - low
signal

P22D7 Turbocharger intake valve position sensor - high

signal

P22D8 Turbocharger intake valve position sensor - circuit intermittent/erratic

P2300 Ignition Coil A Primary Circuit Low

P2301 Ignition Coil A Primary Circuit High

P2302 Ignition coil A, secondary winding circuit - malfunction

P2303 Ignition Coil B Primary Circuit Low

P2304 Ignition Coil B Primary Circuit High

P2305 Ignition coil B, secondary circuit - malfunction

P2306 Ignition Coil C Primary Circuit Low

P2307 Ignition Coil C Primary Circuit High

P2308 Ignition coil C, secondary circuit - malfunction

P2309 Ignition Coil D Primary Circuit Low

P2310 Ignition Coil D Primary Circuit High

P2311 Ignition coil D, secondary circuit - malfunction

P2312 Ignition Coil E Primary Circuit Low

P2313 Ignition Coil E Primary Circuit High

P2314 Ignition coil E, secondary circuit - malfunction

P2315 Ignition Coil F Primary Circuit Low

P2316 Ignition coil F, primary circuit - signal high

P2317 Ignition coil F, secondary circuit - malfunction

P2318 Ignition Coil G Primary Circuit Low

P2319 Ignition Coil G Primary Circuit High

CODE	DECRYPTION
P2320	Ignition coil G, secondary circuit - malfunction
P2321	Ignition Coil H Primary Circuit Low
P2322	Ignition Coil H Primary Circuit High
P2323	Ignition coil H, secondary circuit - malfunction
P2324	Ignition Coil I Primary Circuit Low
P2325	Ignition coil I, primary circuit - signal high
P2326	Ignition coil I, secondary circuit - malfunction
P2327	Ignition Coil J Primary Circuit Low
P2328	Ignition Coil J Primary Circuit High
P2329	Ignition coil J, secondary circuit - malfunction
P2330	Ignition Coil K Primary Circuit Low
P2331	Ignition Coil K Primary Circuit High
P2332	Ignition coil K, secondary circuit - malfunction
P2333	Ignition Coil L Primary Circuit Low
P2334	Ignition coil L, primary circuit - signal high
P2335	Ignition coil L, secondary circuit - malfunction
P2336	Cylinder 1 - above the knock threshold
P2337	Cylinder 2 - above the knock threshold
P2338	Cylinder 3 - above the knock threshold
P2339	Cylinder 4 - above the knock threshold
P2340	Cylinder 5 - above knock threshold
P2341	Cylinder 6 - above the knock threshold
P2342	Cylinder 7 - above the knock threshold

P2343 Cylinder 8 - above the knock threshold

P2344 Cylinder 9 - above the knock threshold

P2345 Cylinder 10 - Above Knock Threshold

P2346 Cylinder 11 - above the knock threshold

P2347 Cylinder 12 - above the knock threshold

P2348 Cylinder pressure sensor, cylinder 9 - circuit malfunction

P2349 Cylinder pressure sensor, cylinder 9 - range / performance

P234A Cylinder pressure sensor, cylinder 9 - circuit low

P234B Cylinder pressure sensor, cylinder 9 - circuit high

P234C Cylinder pressure sensor, cylinder 9 - intermittent / intermittent contact
electrical circuit

P234D Cylinder 9 - pressure too low

P234E Cylinder 9 - pressure too high

P234F Cylinder 9 - low pressure change

P2350 Cylinder 9 - high pressure change

P2351 Cylinder 9 - combustion process

P2352 Cylinder pressure sensor, cylinder 10 - circuit malfunction

P2353 Cylinder pressure sensor, cylinder 10 - range / performance

P2354 Cylinder pressure sensor, cylinder 10 - circuit low

P2355 Cylinder pressure sensor, cylinder 10 - circuit high

P2356 Cylinder pressure sensor, cylinder 10 - unreliable / intermittent
electrical circuit contact

P2357 Cylinder 10 - pressure too low

P2358 Cylinder 10 - pressure too high

P2359 Cylinder 10 - small change in pressure

P235A Cylinder 10 - high pressure change

P235B Cylinder 10 - combustion process

P235C Cylinder pressure sensor, cylinder 11 - circuit malfunction

P235D Cylinder pressure sensor, cylinder 11 - circuit range/performance

P235E Cylinder pressure sensor, cylinder 11 - circuit low

P235F Cylinder pressure sensor, cylinder 11 - circuit high

P2360 Cylinder pressure sensor, cylinder 11 - unreliable / intermittent
electrical circuit contact

P2361 Cylinder 11 - pressure too low

P2362 Cylinder 11 - pressure too high

P2363 Cylinder 11 - small change in pressure

P2364 Cylinder 11 - high pressure change

P2365 Cylinder 11 - combustion process

P2366 Cylinder pressure sensor, cylinder 12 - circuit malfunction

P2367 Cylinder pressure sensor, cylinder 12 - range / performance

P2368 Cylinder pressure sensor, cylinder 12 - circuit low

P2369 Cylinder pressure sensor, cylinder 12 - circuit high

P236A Cylinder pressure sensor, cylinder 12 - unreliable / intermittent
electrical circuit contact

P236B Cylinder 12 - pressure too low

P236C Cylinder 12 - pressure too high

P236D Cylinder 12 - low pressure change

P236E Cylinder 12 - high pressure change

P236F Cylinder 12 - combustion process

P2400 EVAP Leak Detection Pump Control Open Circuit

P2401 EVAP Leak Detection Pump Control Low

P2402 EVAP Leak Detection Pump Control High

P2403 Evaporative emission system leak detection pump, control circuit - open circuit

P2404 EVAP Leak Detection Pump Control Circuit Range/Performance

P2405 EVAP Leak Detection Pump Control Circuit Low

P2406 EVAP Leak Detection Pump Control Circuit High

P2407 Evaporative Emission System Leak Detection Pump, Control Circuit Intermittent/
Intermittent Electrical Circuit

P2408 Fuel filler open sensor/switch -
electrical circuit malfunction

P2409 Fuel filler open sensor/switch -
range/performance

P240A Evaporative emission system leak detection pump heater - open circuit

P240B EVAP Leak Detection Pump Heater - Signal Low

P240C Evaporative emission system leak detection pump heater - circuit high

P240F Exhaust gas recirculation (EGR) system - slow response

P2410 Fuel filler open sensor/switch - circuit low

P2411 Fuel fill cap open sensor/switch high

P2412 Fuel filler open sensor/switch -
unreliable/disappearing electrical circuit contact

P2413 Exhaust gas recirculation (EGR) system - performance

P2414 Heated oxygen sensor 1, bank 1 - measurement error in the system
release

P2415 Heated oxygen sensor 1, bank 2 - measurement error in the system
release

P2416 Heated oxygen sensor 2, bank 1 / heated oxygen
sensor 3, bank 1 - signals mixed up

P2417 Heated oxygen sensor 2, bank 2 / heated oxygen
sensor 3, bank 2 - signals mixed up

P2418 Evaporative emission system switching valve - open circuit

P2419 Evaporative Emission System Switching Valve - Low
signal level

P2420 Evaporative emission system switching valve - high
signal level

P2421 Evaporative emission system purge valve - valve stuck in
open position

P2422 Evaporative emission system purge valve - valve stuck in
closed position

P2423 CH Catalytic Converter Bank 1 Efficiency Less Than Required

P2424 CH Catalytic Converter Bank 2 Efficiency Less Than Required

P2425 Exhaust gas recirculation (EGR) cooling control valve - open
chains

CODE	DECRYPTION
P2426	Exhaust gas recirculation (EGR) cooling control valve - low signal level
P2427	Exhaust gas recirculation (EGR) cooling control valve - high signal level
P2428	Exhaust gas temperature sensor, bank 1 - too high temperature
P2429	Exhaust gas temperature sensor, bank 2 - too high temperature
P242A	Exhaust gas recirculation (EGR) temperature sensor 3, bank 1 - circuit malfunction
P242B	Exhaust gas temperature sensor 3 in the exhaust gas recirculation (EGR) system, bank 1 - range/performance
P242C	Exhaust gas temperature sensor 3 in the exhaust gas recirculation (EGR) system, bank 1 - signal low
P242D	Exhaust gas recirculation (EGR) temperature sensor 3 bank 1 circuit high
P242E	Exhaust gas temperature sensor 3 in the exhaust gas recirculation (EGR) system, bank 1 - missing/chaotic signal
P242F	Diesel particulate filter - blockage / ash accumulation
P2430	Exhaust air supply system, flow / pressure sensor, bank 1 - circuit malfunction
P2431	Exhaust air system, flow/pressure sensor, bank 1 - range/performance
P2432	Exhaust air supply system, flow / pressure sensor, bank 1 - low signal level
P2433	Exhaust air supply system, flow / pressure sensor, bank 1 - high signal level
P2434	Exhaust air supply system, flow/pressure sensor, bank 1 - unreliable/disappearing electrical circuit contact

P2435 Exhaust air supply system, flow / pressure sensor, bank 2 - circuit malfunction

P2436 Exhaust air supply system, flow/pressure sensor, bank 2 - circuit range/performance

P2437 Exhaust air supply system, flow / pressure sensor, bank 2 - low
signal level

P2438 Exhaust air supply system, flow / pressure sensor, bank 2 - high
signal level

P2439 Exhaust air supply system, flow/pressure sensor, bank 2 -
unreliable/disappearing electrical circuit contact

P2440 Switching solenoid valve for air supply to the outlet, bank 1 - jamming
valve in open position

P2441 Switching solenoid valve for air supply to the outlet, bank 1 - jamming
valve in closed position

P2442 Switching solenoid valve for air supply to the outlet, bank 2 - jamming
valve in open position

P2443 Switching solenoid valve for air supply to the outlet, bank 2 - jamming
valve in closed position

P2444 Exhaust Air Pump Bank 1 - Pump stuck open
position

P2445 Exhaust Air Supply Pump Bank 1 - Pump stuck closed
position

P2446 Exhaust Air Pump Bank 2 - Pump stuck open
position

P2447 Exhaust Air Pump Bank 2 - Pump stuck closed
position

P2448 Exhaust air supply system, bank 1 - high air flow

P2449 Exhaust air supply system, bank 2 - high air flow

P244A Diesel particulate filter (DPF) differential pressure too low

P244B Diesel particulate filter (DPF) differential pressure too high

P244C Diesel Particulate Filter (DPF) Bank 1 - Exhaust gas temperature too low for regeneration

P244D Diesel Particulate Filter (DPF) Bank 1 - Exhaust gas temperature too high for regeneration

P244E Diesel Particulate Filter (DPF) Bank 2 - Exhaust gas temperature too low for regeneration

P244F Diesel particulate filter (DPF), bank 2 - Exhaust gas temperature too high for regeneration

P2450 Evaporative emission system switching valve - valve stuck in open position / operation

P2451 Evaporative emission system switching valve - valve stuck in closed position

P2452 Diesel particulate filter (DPF), pressure sensor A - electrical malfunction chains

P2453 Diesel particulate filter (DPF), pressure sensor A - electrical malfunction chains

P2454 Diesel particulate filter (DPF), pressure sensor A - circuit low

P2455 Diesel particulate filter (DPF), pressure sensor A - circuit high

P2456 Diesel particulate filter (DPF), pressure sensor A - electrical malfunction chains

P2457 Exhaust Gas Recirculation (EGR) Cooling - functioning

P2458 Diesel particulate filter (DPF), regeneration process - incorrect duration

P2459 Diesel particulate filter (DPF) regeneration process - too many DPF regeneration cycles

P245A Bypass solenoid valve for exhaust gas recirculation cooler (EGR) - malfunction of the control electrical circuit

P245B Bypass solenoid valve for exhaust gas recirculation cooler
(EGR) - range / performance of the control circuit

P245C Bypass solenoid valve for exhaust gas recirculation cooler
(EGR) - low signal level of the control circuit

P245D Bypass solenoid valve for exhaust gas recirculation cooler
(EGR) - high signal level of the control circuit

P245E Diesel particulate filter pressure sensor - circuit malfunction

P245F Differential pressure sensor Particulate filter B circuit range/performance

P2460 Diesel particulate filter (DPF), pressure sensor B - circuit low

P2461 Diesel particulate filter (DPF), pressure sensor B - circuit high

P2462 Diesel particulate filter pressure sensor - circuit malfunction

P2463 Diesel particulate filter (DPF) - clogged DPF

P2464 Diesel Particulate Filter (DPF) Bank 2 Differential Pressure Too Low

P2465 Diesel Particulate Filter (DPF) Bank 2 Differential Too High
pressure

P2466 Exhaust gas temperature sensor 3, bank 2 - circuit malfunction

P2467 Exhaust gas temperature sensor 3, bank 2 - range /
functioning

P2468 Exhaust Gas Temperature Sensor 3 Bank 2 Circuit Low

P2469 Exhaust Gas Temperature Sensor 3 Bank 2 Circuit High

P246A Exhaust gas temperature sensor 3, bank 2 - circuit intermittent

P246B Diesel particulate filter (DPF) - vehicle condition

P246C Diesel particulate filter (DPF) - DPF clogged, emergency mode activated

P246D Diesel particulate filter (DPF), pressure sensor A/B - correlation

P246E Exhaust gas temperature sensor 4, bank 1 - circuit malfunction

P246F Exhaust gas temperature sensor 4, bank 1 - range /
functioning

P2470 Exhaust Gas Temperature Sensor 4 Bank 1 Circuit Low

P2471 Exhaust Gas Temperature Sensor 4 Bank 1 High

P2472 Exhaust gas temperature sensor 4, bank 1 - circuit intermittent

P2473 Exhaust gas temperature sensor 4, bank 2 - circuit malfunction

P2474 Exhaust gas temperature sensor 4, bank 2 - range /
functioning

P2475 Exhaust Gas Temperature Sensor 4 Bank 2 Circuit Low

P2476 Exhaust Gas Temperature Sensor 4 Bank 2 Circuit High

P2477 Exhaust gas temperature sensor 4, bank 2 - circuit intermittent

P2478 Exhaust gas temperature sensor 1 bank - signal out of range
set range

P2479 Exhaust gas temperature sensor 2, bank 1 - signal out of range
set range

P247A Exhaust gas temperature sensor 3, bank 1 - signal out of range
set range

P247B Exhaust gas temperature sensor 4, bank 1 - signal out of range
set range

P247C Exhaust gas temperature sensor 1, bank 2 - signal out of range
set range

P247D Exhaust gas temperature sensor 2, bank 2 - signal out of range
set range

P247E Exhaust gas temperature sensor 3, bank 2 - signal out of range
set range

P247F Exhaust gas temperature sensor 4, bank 2 - signal out of range
set range

P2480 Exhaust gas temperature sensor 5, bank 1 - open circuit

P2481 Exhaust Gas Temperature Sensor 5 Bank 1 Low

P2482 Exhaust Gas Temperature Sensor 5 Bank 1 Circuit High

P2483 Exhaust gas temperature sensor 5, bank 1 - range /
functioning

P2484 Exhaust gas temperature sensor 5, bank 1 - circuit intermittent

P2485 Exhaust gas temperature sensor 5, bank 2 - open circuit

P2486 Exhaust Gas Temperature Sensor 5 Bank 2 Circuit Low

P2487 Exhaust Gas Temperature Sensor 5 Bank 2 Circuit High

P2488 Exhaust gas temperature sensor 5, bank 2 - range /
functioning

P2489 Exhaust gas temperature sensor 5, bank 2 - circuit intermittent

P248A Reductant heater A, control circuit - circuit low

P248B Reductant Heater A Control Circuit High
signal

P248C Reductant heater B, control circuit - circuit low

P248D Reductant Heater B Control Circuit High
signal

CODE	DECRYPTION
P248E	Bypass electromagnetic valve of the cooler of exhaust gases of the recirculation system (EGR), bank 2 - control circuit open
P248F	Bypass electromagnetic valve of the cooler of exhaust gases of the recirculation system (EGR) Bank 2 Range/Performance
P2490	Bypass solenoid valve for exhaust gas recirculation cooler (EGR) Bank 2 Control Circuit Low
P2491	Bypass electromagnetic valve of the cooler of exhaust gases of the recirculation system (EGR) Bank 2 Control Circuit High
P2492	Recirculation cooler wastegate position sensor Exhaust gas (EGR) bank 1 circuit malfunction
P2493	Exhaust gas recirculation (EGR) cooler wastegate position sensor, bank 1 - circuit range/performance
P2494	Recirculation cooler wastegate position sensor Exhaust gas (EGR) bank 1 - signal low
P2495	Exhaust Gas Recirculation (EGR) Cooler Wastegate Position Sensor Bank 1 Circuit High
P2496	Exhaust gas recirculation (EGR) cooler wastegate position sensor bank 1 circuit intermittent/erratic
P2497	Recirculation cooler wastegate position sensor Exhaust gas (EGR) bank 2 circuit malfunction
P2498	Exhaust gas recirculation (EGR) cooler wastegate position sensor, bank 2 - circuit range/performance
P2499	Wastegate Position Sensor Recirculation Cooler Exhaust gas (EGR) bank 2 - signal low
P249A	Exhaust gas recirculation (EGR) cooler wastegate position sensor, bank 2 - circuit high
P249B	Exhaust gas recirculation (EGR) cooler wastegate position sensor, bank 2 - circuit intermittent/erratic
P249C	Reductant Injection Control - Closed Loop Entry Time Exceeded

P249D Reductant injection control (closed loop operation), control limit reached - low flow

P249E Reductant injection control (closed loop operation), control limit reached - high flow

P249F DPF Regeneration Control - Exceeding the time to enter the operating mode with feedback

P24A0 Diesel particulate filter (DPF) regeneration control (closed loop operation), control limit reached - temperature too low

P24A1 Diesel Particulate Filter (DPF) Regeneration Control (Reverse Mode) communication), control limit reached - temperature too high

P24A2 Diesel particulate filter (DPF) - regeneration failed

P2500 Charging indicator, output L - signal low

P2501 Charging indicator, output L - high signal level

P2502 Charging system voltage

P2503 Charging system - low voltage

P2504 Charging system - high voltage

P2505 Engine control module - supply voltage

P2506 Electronic engine control unit - supply voltage, range / functioning

P2507 Electronic engine control unit - supply voltage low

P2508 Electronic engine control unit - supply voltage high

P2509 Engine control module (ECM) - supply voltage, interrupted

P250A Engine oil level sensor - circuit malfunction

P250B Engine oil level sensor - circuit range/performance

P250C Engine oil level sensor - circuit low

P250D Engine oil level sensor - circuit high

P250E Engine oil level sensor - intermittent / erratic signal

P250F Engine oil level too high

P2510 Engine Control System Relay Signal Circuit Range/Performance

P2511 Engine control system relay, control circuit - poor electrical circuit contact

P2512 Event information recording request - open circuit

P2513 Event Information Record Request - Signal Low

P2514 Event Information Record Request - Signal High

P2515 A/C refrigerant pressure sensor B - malfunction
electrical circuit

P2516 A/C refrigerant pressure sensor B circuit range/performance

P2517 A/C refrigerant pressure sensor B - low
signal

P2518 A/C refrigerant pressure sensor B - high
signal level

P2519 Air conditioning request A - circuit malfunction

P251A Power take-off system enable switch - open circuit

P251B Power take-off system enable switch - low
signal

P251C Power take-off system enable switch - high
signal

P251D Power take-off system, engine shutdown - open circuit

P251E Power take-off system, engine shutdown - circuit low

CODE	DECRYPTION
P251F	Power take-off control, engine shutdown control - signal high
P2520	Request A air conditioning system - low signal
P2521	Air conditioning request A - signal high
P2522	A/C system request B - circuit malfunction
P2523	A/C System Request B - Circuit Low
P2524	A/C System Request B - Circuit High
P2525	Vacuum reservoir pressure sensor - circuit malfunction
P2526	Vacuum reservoir pressure sensor - range / performance
P2527	Vacuum reservoir pressure sensor - low signal
P2528	Vacuum reservoir pressure sensor - high signal
P2529	Vacuum reservoir pressure sensor - unreliable electrical contact chains
P252A	Engine oil quality sensor - circuit malfunction
P252B	Engine oil quality sensor - circuit range/performance
P252C	Engine oil quality sensor - circuit low
P252D	Engine oil quality sensor - circuit high
P252E	Engine oil quality sensor - intermittent / erratic signal
P252F	Engine oil level too high
P2530	Ignition switch, ON position - electrical circuit malfunction
P2531	Ignition switch, ON position - signal low
P2532	Ignition switch, ON position - signal high
P2533	Ignition Switch, ON/Start Position - Circuit Malfunction
P2534	Ignition switch, ON / Start position - signal low

P2535 Ignition switch, ON / Start position - signal high

P2536 Ignition switch, ACC position - circuit malfunction

P2537 Ignition switch, ACC position - signal low

P2538 Ignition switch, ACC position - signal high

P2539 Low fuel pressure sensor - circuit malfunction

P253A Power take-off control - open circuit

P253B Power take-off control - range / performance

P253C Power take-off control - signal low

P253D Power take-off control - signal high

P253E Power take-off system - intermittent sensor circuit malfunction

P253F Deterioration in engine oil quality

P2540 Low fuel pressure sensor circuit range/performance

P2541 Low fuel pressure sensor - circuit low

P2542 Low fuel pressure sensor - circuit high

P2543 Low fuel pressure sensor - unreliable contact of the electrical circuit

P2544 Torque control request, input signal A - malfunction

P2545 Torque Control Request Input A Range/Performance

P2546 Torque Control Request Input A Low

signal

P2547 Torque Control Request Input A High

signal

P2548 Torque control request, input signal B - malfunction

P2549 Torque Control Request B Input Range/Performance

CODE	DECRYPTION
P254A	PTO speed select sensor/switch 1 - open chains
P254B	PTO speed select sensor/switch 1 - circuit range/performance
P254C	PTO speed select sensor/switch 1 - low signal level
P254D	PTO speed select sensor/switch 1 - high signal level
P254E	PTO speed select sensor/switch 1 - fading/chaotic signal
P254F	Hood limit switch - open circuit
P2550	Torque Control Request Input B Low signal
P2551	Torque control request, input signal B is high signal
P2552	Throttle actuator / fuel cut - circuit malfunction
P2553	Throttle Actuator/Fuel Cut - Range/Performance
P2554	Throttle actuator / fuel cut - low signal
P2555	Throttle actuator / fuel cut - high signal
P2556	Low coolant level switch - malfunction electrical circuit
P2557	Low coolant level switch - range / functioning
P2558	Low coolant level switch - low signal level

P2559 Low coolant level switch - high
signal level

P255A PTO speed select sensor/switch 2 - open circuit
chains

P255B PTO speed select sensor/switch 2 - circuit range/performance

P255C PTO speed select sensor/switch 2 - low
signal level

P255D PTO speed select sensor/switch 2 - high
signal level

P255E PTO speed select sensor/switch 2 -
fading/chaotic signal

P255F Air conditioning system request A - range / performance

P2560 Low coolant level

P2561 Air conditioning control unit - indicator activation request
engine malfunction

P2562 Turbo boost pressure control actuator position sensor - circuit malfunction

P2563 Turbo boost pressure control actuator position sensor - range /
functioning

P2564 Turbo boost pressure control actuator position sensor - low
signal level

P2565 Turbo boost pressure control actuator position sensor - high
signal level

P2566 Turbo boost pressure control actuator position sensor circuit intermittent

P2567 Ozone catalytic converter (temperature sensor) - circuit malfunction

CODE	DECRYPTION
P2568	Ozone Catalytic Converter (Temperature Sensor) Range/Performance
P2569	Ozone Catalytic Converter (Temperature Sensor) - Low signal
P256A	Engine idle speed select sensor/switch - open circuit
P256B	Engine idle speed select sensor/switch - range/performance
P256C	Engine idle speed select sensor/switch - circuit low
P256D	Engine idle speed select sensor/switch - high signal level
P256E	Engine idle speed select sensor/switch - intermittent/erratic signal
P256F	Request B air conditioning - range / performance
P2570	Ozone Catalytic Converter (Temperature Sensor) - High signal
P2571	Ozone Catalytic Converter (Temperature Sensor) Intermittent/Missing Circuit Contact
P2572	Ozone catalytic converter (condition sensor)
P2573	Ozone Catalytic Converter (Condition Sensor) Range/Performance
P2574	Ozone Catalytic Converter (Condition Sensor) - Low signal
P2575	Ozone Catalytic Converter (Condition Sensor) - High signal
P2576	Ozone Catalytic Converter (Condition Sensor) Intermittent/Missing Circuit Contact
P2577	Ozone Catalytic Converter - Efficiency Less than Required

P2578 Turbocharger speed sensor - electrical malfunction

chains

P2579 Turbocharger speed sensor - range / performance

P257A Vacuum receiver control - open circuit

P257B Vacuum receiver control - signal low

P257C Vacuum receiver control - signal high

P257D Hood limit switch - circuit range/performance

P257E Hood limit switch - circuit low

P257F Hood limit switch - signal high

P2580 Turbocharger speed sensor - signal low

P2581 Turbocharger speed sensor - signal high

P2582 Turbocharger speed sensor - unreliable contact of the electrical circuit

P2583 Distance sensor of the cruise control system (cruise control), front
central - malfunction

P2584 Fuel addition control module - indicator activation request
malfunctions

P2585 Fuel addition control module - indicator activation request
malfunctions

P2586 Turbo boost pressure control actuator position sensor B - circuit malfunction

P2587 Turbo boost pressure control actuator position sensor B - circuit malfunction

P2588 Turbo boost pressure control actuator position sensor B - low
signal level

P2589 Turbo boost pressure control actuator position sensor B - high
signal level

P258A Vacuum pump - control circuit open

P258B Vacuum pump control - range / performance

P258C Vacuum pump control - circuit low

P258D Vacuum pump - control circuit high

P258E Power take-off system enable switch - performance problems

P258F Torque control request - incorrect output signal

P2590 Turbo boost pressure control actuator position sensor B - circuit malfunction

P2591 Distance sensor of the cruise control system (cruise control), front left - malfunction

P2592 Distance sensor of the cruise control system (cruise control), front right - malfunction

P2593 Turbocharger speed sensor B - malfunction
electrical circuit

P2594 Turbocharger speed sensor B - range / performance

P2595 Turbocharger speed sensor B - circuit low

P2596 Turbocharger Speed Sensor B Circuit High

P2597 Turbocharger Speed Sensor B - Intermittent/Missing
electrical circuit contact

P2598 Turbo boost pressure control actuator position sensor A,
operation - low signal level

P2599 Turbo boost pressure control actuator position sensor A,
functioning - high signal level

P259A Turbo boost pressure control actuator position sensor B,
operation - low signal level

P259B Turbo boost pressure control actuator position sensor B,
functioning - high signal level

P259C Boost control, turbocharger A - entry time exceeded
feedback mode

P259D Boost control, turbocharger B - entry time exceeded
feedback mode

P259E Turbocharger A boost pressure control low reached
limit

P259F Turbocharger A boost pressure control high reached
limit

P25A0 Turbocharger B, boost pressure control - low reached
limit

P25A1 Turbocharger B, boost pressure control - high reached
limit

P2600 Coolant pump motor - open circuit

P2601 Coolant Pump Motor Range/Performance

P2602 Coolant pump motor - circuit low

P2603 Coolant pump motor - signal high

P2604 Intake Air Heater A - Range/Performance

P2605 Intake air heater A - open circuit

P2606 Intake Air Heater B - Range/Performance

P2607 Intake air heater B - signal low

P2608 Intake air heater B - signal high

P2609 Intake air heating system - performance problems

P260A Power take-off system, control - open circuit

P260B Power take-off system control - signal low

P260C Power take-off system control - signal high

P260D Power take-off system, power indicator - control circuit

P260E Diesel particulate filter (DPF) indicator - control circuit malfunction

P260F Evaporative emission system - performance problem
control processor

P2610 Electronic engine control module (ECM) - built-in engine shutdown timer performance

P2611 Air conditioning control valve - open circuit

P2612 Air conditioning control valve - low
signal

P2613 A/C control valve high level
signal

P2614 Camshaft position, output - open circuit

P2615 Camshaft Position Output Low
signal

P2616 Camshaft Position Output High
signal

P2617 Crankshaft position, output - open circuit

P2618 Crankshaft Position Output Signal Low

P2619 Crankshaft position output signal high

P261A Coolant pump motor B - control circuit open

P261B Water pump motor B - control circuit range/performance

P261C Water pump motor B - circuit low
in the control circuit

P261D Coolant pump motor B - circuit high
signal in the control circuit

P2620 Throttle Position Output - Open Circuit

P2621 Throttle Position Output Signal Low

P2622 Throttle position output high
signal

P2623 Injector control pressure regulator - open circuit

P2624 Injector control pressure regulator - signal low

P2625 Injector control pressure regulator - signal high

P2626 Heated oxygen sensor 1, bank 1 pump current - open circuit

P2627 Heated oxygen sensor 1, bank 1, pump current - low
signal

P2628 Heated oxygen sensor 1, bank 1 pump current high
signal

P2629 Heated oxygen sensor 1, bank 2, pumping current - open circuit

P2630 Heated oxygen sensor 1, bank 2, pump current - low
signal

P2631 Heated Oxygen Sensor 1 Bank 2 Pump Current High
signal

P2632 Fuel pump B, control - open circuit

P2633 Fuel pump B, control - signal low

P2634 Fuel pump B, control - signal high

P2635 Fuel pump A - low flow / performance

P2636 Fuel pump B - low flow / performance

P2637 Torque control feedback signal A - malfunction

P2638 Torque control feedback A - range/performance

P2639 Torque control feedback signal A - low

signal

P2640 Torque control feedback signal A high

signal

P2641 Torque control, feedback signal B - malfunction

P2642 Torque control feedback signal B - range / performance

P2643 Torque control feedback signal B - low

signal

P2644 Torque control feedback signal B high

signal

P2645 Rocker arm drive A, bank 1 - open circuit

P2646 Rocker actuator A, bank 1 - performance problems or sticking
actuator in closed position

P2647 Rocker Actuator A Bank 1 Actuator Stuck Open

P2648 Rocker Arm Actuator A Bank 1 Circuit Low

P2649 Rocker Arm Actuator A Bank 1 Circuit High

P264A Rocker actuator position sensor A, bank 1 - circuit malfunction

P264B Rocker actuator position sensor A, bank 1 - range /
functioning

P264C Rocker actuator position sensor A, bank 1 - circuit low

P264D Rocker actuator position sensor A, bank 1 - circuit high

P264E Rocker actuator position sensor A, bank 1 - intermittent/erratic
signal

P2650 Rocker actuator B, bank 1 - open circuit

P2651 Rocker actuator B, bank 1 - performance problems or sticking
actuator in closed position

P2652 Rocker Arm B Actuator Bank 1 Actuator Stuck Open

P2653 Rocker Actuator B Bank 1 Circuit Low

P2654 Rocker Arm B Drive Bank 1 Circuit High

P2655 Rocker arm drive A, bank 2 - open circuit

P2656 Rocker actuator A, bank 2 - performance problems or sticking
actuator in closed position

P2657 Rocker Actuator A Bank 2 Actuator Stuck Open

P2658 Rocker Actuator A Bank 2 Circuit Low

P2659 Rocker Actuator A Bank 2 Circuit High

P265A Rocker actuator position sensor B, bank 1 - circuit malfunction

P265B Rocker actuator position sensor B, bank 1 - range /
functioning

P265C Rocker actuator position sensor B, bank 1 - circuit low

P265D Rocker actuator position sensor B, bank 1 - circuit high

P265E Rocker actuator position sensor B, bank 1 - intermittent / erratic
signal

P2660 Rocker actuator B, bank 2 - open circuit

P2661 Rocker actuator B, bank 2 - performance problems or sticking
actuator in closed position

P2662 Rocker Arm B Actuator Bank 2 Actuator Stuck Open

P2663 Rocker Arm B Actuator Bank 2 Circuit Low

P2664 Rocker Arm B Drive Bank 2 Circuit High

P2665 E / m fuel cut-off valve B - open circuit

P2666 Solenoid fuel cut-off valve B - signal low

P2667 Solenoid fuel cut-off valve B - signal high

P2668 Fuel mode indicator - circuit malfunction

P2669 Drive supply voltage B - open circuit

P266A Rocker actuator position sensor A, bank 2 - circuit malfunction

P266B Rocker actuator position sensor A, bank 2 - range /
functioning

P266C Rocker actuator position sensor A, bank 2 - circuit low

P266D Rocker actuator position sensor A, bank 2 - circuit high

P266E Rocker actuator position sensor A, bank 2 - intermittent/erratic
signal

P2670 Drive supply voltage B - signal low

P2671 Drive supply voltage B - signal high

P2672 Injection pump timing error - incorrect deviation

P2673 Injection advance angle calibration of injection pump - calibration failed

P2674 Injection pump supply calibration - calibration failed

P2675 Air filter intake control - open circuit

P2676 Air filter intake control - circuit low

P2677 Air filter intake control - circuit high

P2678 Coolant expansion tank valve - open circuit

P2679 Coolant expansion tank valve - signal low

P267A Rocker actuator position sensor B, bank 2 - circuit malfunction

P267B Rocker actuator position sensor B, bank 2 - circuit range/
functioning

P267C Rocker actuator position sensor B, bank 2 - circuit low

P267D Rocker actuator position sensor B, bank 2 circuit high

P267E Rocker actuator position sensor B, bank 2 - intermittent/erratic
signal

P2680 Coolant Expansion Tank Valve High
signal

P2681 Coolant bypass valve - open circuit

P2682 Coolant bypass valve - signal low

P2683 Coolant bypass valve - signal high

P2684 Drive supply voltage C - open circuit

P2685 Drive supply voltage C - signal low

P2686 Drive supply voltage C - signal high

P2687 Fuel heater - open circuit

P2688 Fuel heater - signal low

P2689 Fuel heater - signal high

P268A Injector - calibration is not learned / not programmed

P268B Injection pump - calibration is not learned / not programmed

P268C Injector 1 - inconsistent data

P268D Injector 2 - inconsistent data

P268E Injector 3 - inconsistent data

P268F Injector 4 - inconsistent data

P2690 Injector 5 - inconsistent data

P2691 Injector 6 - inconsistent data

P2692 Injector 7 - inconsistent data

P2693 Injector 8 - inconsistent data

P2694 Injector 9 - inconsistent data

P2695 Injector 10 - inconsistent data

P2696 Injector - inconsistent data

P2697 Exhaust gas cleaning system, fuel injector A - open circuit

P2698 Exhaust gas cleaning system, fuel injector A - problems
functioning

P2699 Exhaust gas cleaning system, fuel injector A - low
signal

P269A Exhaust gas cleaning system, fuel injector A - high
signal level

P269B Exhaust gas cleaning system, glow plug control - open circuit

P269C Exhaust gas cleaning system, glow plug control -
functioning

P269D Exhaust gas cleaning system, glow plug control - circuit low

P269E Exhaust gas cleaning system, glow plug control -
high signal level

P269F Exhaust gas cleaning system, glow plugs - open circuit

P26A0 Exhaust gas cleaning system, glow plugs - performance

P26A1 Exhaust gas cleaning system, glow plugs - low
signal

P26A2 Exhaust gas cleaning system, glow plugs - high
signal

P2700 Clutch A Gearbox Application Time Range/
functioning

P2701 Friction element B gearbox, application time - range /
functioning

P2702 Friction element C gearbox, application time - range /
functioning

P2703 Friction element D gearbox, application time - range /
functioning

P2704 Friction element E gearbox, application time - range /
functioning

P2705 Friction element F gearbox, application time - range /
functioning

P2706 Solenoid valve F shift - circuit malfunction

P2707 Solenoid valve F shift - functioning or sticking in
closed state

P2708 Shift Solenoid F - Stuck Open

P2709 Solenoid valve F shift - electrical fault

P2710 Shift Solenoid F - Intermittent

P2711 Unexpected Forced Gear Off

P2712 Leaks in the hydraulic block

P2713 Transmission fluid pressure control solenoid D - malfunction
electrical circuit

P2714 Transmission fluid pressure control solenoid D - malfunctioning or
stuck closed

P2715 Transmission fluid pressure control solenoid D - stuck in
open position

P2716 Transmission fluid pressure control solenoid D - electrical
malfunction

P2717 Transmission Fluid Pressure Control Solenoid D - Unreliable
electrical circuit contact

P2718 Transmission fluid pressure control solenoid D - open circuit

P2719 Transmission fluid pressure control solenoid D - range/
functioning

P2720 Transmission Fluid Pressure Control Solenoid D - Low
signal

P2721 Transmission Fluid Pressure Control Solenoid D - High
signal level

P2722 Transmission fluid pressure control solenoid E - malfunction
electrical circuit

P2723 Transmission fluid pressure control solenoid E - malfunction or
stuck closed

P2724 Transmission fluid pressure control solenoid E - stuck in
open position

P2725 Transmission Fluid Pressure Control Solenoid E - Electrical
malfunction

P2726 Transmission Fluid Pressure Control Solenoid E - Unreliable
electrical circuit contact

P2727 Transmission fluid pressure control solenoid E - open circuit

P2728 Transmission fluid pressure control solenoid E - circuit range/performance

P2729 Transmission Fluid Pressure Control Solenoid E - Low
signal

P2730 Transmission Fluid Pressure Control Solenoid E - High
signal level

P2731 Transmission fluid pressure control solenoid F - circuit malfunction

P2732 Transmission fluid pressure control solenoid F - malfunctioning or stuck closed

P2733 Transmission fluid pressure control solenoid F - stuck in open position

P2734 Transmission fluid pressure control solenoid F - electrical malfunction

P2735 Transmission Fluid Pressure Control Solenoid F - Unreliable electrical circuit contact
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P2736 Transmission fluid pressure control solenoid F - open circuit

P2737 Transmission fluid pressure control solenoid F - circuit range/performance
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P2738 Transmission Fluid Pressure Control Solenoid F - Low signal

P2739 Transmission Fluid Pressure Control Solenoid F - High signal level
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P273A Transmission friction element G, application time - range problems / functioning
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P273B Friction element H gearbox, application time - range problems / functioning

P2740 Transmission fluid temperature sensor B - electrical malfunction chains

P2741 Transmission Fluid Temperature Sensor B Circuit Range/Performance

P2742 Transmission fluid temperature sensor B - circuit low

P2743 Transmission Fluid Temperature Sensor B - Circuit High
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P2744 Transmission fluid temperature sensor B - circuit intermittent
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P2745 Transmission intermediate shaft speed sensor B - circuit malfunction
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P2746 Transmission Intermediate Shaft Speed Sensor B Circuit Range/Performance

P2747 Intermediate shaft speed sensor B - no signal

P2748 Intermediate shaft speed sensor B - circuit intermittent

P2749 Intermediate shaft speed sensor C - circuit malfunction

P2750 Transmission Intermediate Shaft Speed Sensor C Range/Performance

P2751 Intermediate shaft speed sensor C - no signal

P2752 Transmission Intermediate Shaft Speed Sensor C - Intermittent Electrical
Circuit Contact

P2753 Transmission fluid cooler - open circuit

P2754 Transmission fluid cooler - circuit low

P2755 Transmission Fluid Cooler - Circuit High

P2756 Torque converter clutch pressure control solenoid - circuit malfunction

P2757 Torque converter clutch pressure control solenoid - performance or stuck closed

P2758 Torque converter clutch pressure control solenoid -
stuck open

P2759 Torque converter clutch pressure control solenoid -
electrical fault

P2760 Torque converter clutch pressure control solenoid -
unreliable electrical contact

P2761 Torque converter clutch pressure control solenoid - open circuit

P2762 Torque converter clutch pressure control solenoid - range/performance

P2763 Torque converter clutch pressure control solenoid - circuit high
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P2764 Torque converter clutch pressure control solenoid - circuit low

P2765 Input shaft speed sensor / Turbine shaft speed sensor B - circuit malfunction

P2766 Input Shaft Speed Sensor/Turbine Shaft Speed Sensor B - Range/Performance

P2767 Input Shaft Speed Sensor / Turbine Shaft Speed Sensor B - No Signal

P2768 Input Shaft Speed Sensor / Turbine Shaft Speed Sensor B Circuit Intermittent
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P2769 Torque converter clutch - signal low
--

P2770 Torque converter clutch - signal high

P2771 Downshift switch, 4WD - electrical fault chains
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P2772 Downshift switch, 4WD - range/performance

P2773 Downshift switch, 4WD - circuit low

P2774 Downshift switch, 4WD - circuit high
--

P2775 Transmission gear selection switch, upshift - range/performance

P2776 Transmission gear selection switch, upshift - low signal
--

P2777 Transmission gear selection switch, upshift - high signal level

P2778 Transmission gear selection switch, upshift - intermittent / intermittent electrical contact

P2779 Transmission gear selection switch downshift range/performance

P2780 Transmission gear selection switch, downshift - low
signal

P2781 Transmission gear selection switch, downshift - high
signal

P2782 Transmission gear selection switch, downshift - intermittent / intermittent electrical contact

P2783 Torque converter temperature too high

P2784 Input Shaft Speed Sensor/Shaft Speed Sensor
turbines A/B - correlation

P2785 Clutch actuator - temperature too high

P2786 Shift actuator - temperature too high

P2787 Clutch - temperature too high

P2788 Automated Shift Transmission (ASM) Adaptive Learning - Limit

P2789 Clutch, adaptive learning - at the limit

P278A Kick-down switch - circuit malfunction

P278B Kick-down switch - range/performance

P278C Kick-down switch - signal low

P278D Kick-down switch - signal high

P278E Kick-down mode switch - intermittent / chaotic signal

P278F Clutch B, adaptive learning - at the limit

P2790 Range selection control - circuit malfunction

CODE	DECRYPTION
P2791	Band selection control - signal low
P2792	Range selection control - signal high
P2793	Gear selection control - circuit malfunction
P2794	Gear selection control - signal low
P2795	Gear selection control - signal high
P2796	Auxiliary transmission fluid pump control - open circuit
P2797	Auxiliary transmission fluid pump - performance
P2798	Auxiliary Transmission Fluid Pump Control - Low signal level
P2799	Auxiliary transmission fluid pump control - high signal level
P279A	Transfer case, overdrive - incorrect gear attitude
P279B	Transfer case, reduction gear - incorrect gear attitude
P279C	Transfer case, neutral - incorrect gear ratio
P279D	4WD control - incorrect signal
P279E	4WD control - control circuit range/performance
P279F	4WD control - signal low
P27A0	4WD control - signal high
P2800	Selector Position Sensor B - PRNDL Input
P2801	Selector Position Sensor B Range/Performance
P2802	Selector Position Sensor B - Signal Low
P2803	Selector Position Sensor B - Signal High
P2804	Selector position sensor B - unreliable contact of the electrical circuit

P2805 A/B selector position sensor - correlation

P2806 Selector position sensor - sensor signal out of sync

P2807 Transmission fluid pressure control solenoid G

P2808 Transmission fluid pressure control solenoid G -
functioning or stuck closed

P2809 Transmission fluid pressure control solenoid G - stuck in
open position

P280A Selector Position Sensor A - Calibration Failed

P280B Selector Position Sensor B - Calibration Failed

P2810 Transmission fluid pressure control solenoid G - electrical
malfunction

P2811 Transmission Fluid Pressure Control Solenoid G - Intermittent
signal

P2812 Transmission fluid pressure control solenoid G - control circuit open

P2813 Transmission fluid pressure control solenoid G - control circuit range/performance

P2814 Transmission Fluid Pressure Control Solenoid G - Low
control circuit signal

P2815 Transmission Fluid Pressure Control Solenoid G - Control Circuit High

P2816 Transmission Fluid Pressure Control Solenoid H

P2817 Transmission fluid pressure control solenoid H - performance or
sticking closed

P2818 Transmission fluid pressure control solenoid H - stuck in
open position

P2819 Transmission fluid pressure control solenoid valve H - electrical
malfunction

P281A Transmission fluid pressure control solenoid valve H - unreliable electrical contact

P281B Transmission fluid pressure control solenoid valve H - open control circuit

P281C Transmission fluid pressure control solenoid H - range/
operation of the control circuit

P281D Transmission fluid pressure control solenoid H - low
control circuit signal

P281E Transmission fluid pressure control solenoid H - high
control circuit signal level

P281F Transmission fluid pressure control solenoid valve J - malfunction

P2820 Transmission fluid pressure control solenoid valve J - performance
or sticking closed

P2821 Transmission fluid pressure control solenoid J - sticking
open position

P2822 Transmission fluid pressure control solenoid valve J - electrical
malfunction

P2823 Transmission fluid pressure control solenoid valve J - intermittent
signal

P2824 Transmission fluid pressure control solenoid valve J - control circuit open

P2825 Transmission fluid pressure control solenoid J - control circuit range/performance

P2826 Transmission Fluid Pressure Control Solenoid J - Low
control circuit signal

P2827 Transmission fluid pressure control solenoid J - control circuit high

P2828 Transmission Fluid Pressure Control Solenoid K

P2829 Transmission fluid pressure control solenoid K - performance or sticking closed

P282A Transmission fluid pressure control solenoid K - stuck in open position

P282B Transmission fluid pressure control solenoid K - electrical malfunction

P282C Transmission fluid pressure control solenoid K - electrical connection intermittent

P282D Transmission fluid pressure control solenoid valve - control circuit open

P282E Transmission fluid pressure control solenoid K - control circuit range/performance
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P282F Transmission fluid pressure control solenoid valve - low control circuit signal

P2830 Transmission Fluid Pressure Control Solenoid K - Control Circuit High

P2831 Shift fork position A - circuit malfunction

P2832 Shift Fork Position A Range/Performance

P2833 Shift Fork Position A - Signal Low
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P2834 Shift Fork Position A - Signal High

P2835 Shift Fork Position A - Intermittent Signal

P2836 Shift fork position B - circuit malfunction

P2837 Shift Fork B Position Range/Performance

P2838 Shift Fork Position B - Circuit Low

P2839 Shift Fork Position B - Signal High

P283A Shift fork position B - intermittent signal

P283B Shift fork position C - circuit malfunction

P283C Shift fork C position range/performance

P283D Shift fork position C - circuit low

P283E Shift Fork Position C - Circuit High

P283F Shift fork position C - intermittent signal

P2840 Shift fork position D - circuit malfunction

P2841 Shift Fork Position D Range/Performance

P2842 Shift fork position D - signal low

P2843 Shift Fork Position D - Signal High

P2844 Shift fork position D - intermittent signal

P2845 Shift Fork Position Sensor A - Incorrect Indication
neutral position

P2846 Shift Fork Position Sensor B - Incorrect Indication
neutral position

P2847 Shift Fork Position Sensor C - Incorrect Indication
neutral position

P2848 Shift Fork Position Sensor D - Incorrect Indication
neutral position

P2849 Shift fork A - stuck

P284A Shift fork B - stuck

P284B Shift fork C - stuck

P284C Shift fork D - stuck

P284D Shift fork A - unsolicited movement

P284E Shift fork B - unsolicited movement

P284F Shift Fork C - Unsolicited Movement

CODE	DECRYPTION
P2850	Shift Fork D - Unsolicited Movement
P2851	Shift Fork Position Sensor A/B Correlation
P2852	Shift Fork Position Sensor C/D - Correlation
P2853	Clutch A Pressure Relief - Performance
P2854	Clutch B pressure relief - performance
P2855	Clutch A, pressurizing - performance
P2856	Clutch B pressurizing - performance
P2857	Clutch A pressure supply - performance
P2858	Clutch B pressure supply - performance
P2859	Clutch A pressure cut off - performance
P285A	Clutch B pressure cut off - performance
P285B	Gear shift fork drive A - open circuit
P285C	Shift fork actuator A - performance
P285D	Shift fork actuator A - circuit low
P285E	Shift Fork Actuator A - Circuit High
P285F	Shift fork actuator B - open circuit
P2860	Shift Fork Actuator B - Performance
P2861	Shift Fork Actuator B - Circuit Low
P2862	Shift Fork Actuator B - Circuit High
P287B	SHIFT FORK CALIBRATION NOT LEARN
P2A00	Heated oxygen sensor 1, bank 1 - range/performance problems
P2A01	Heated oxygen sensor 2, bank 1 - circuit range/performance

P2A02 Heated oxygen sensor 3, bank 1 - circuit range/performance

P2A03 Heated oxygen sensor 1, bank 2 - circuit range/performance

P2A04 Heated oxygen sensor 2, bank 2 - circuit range/performance

P2A05 Heated oxygen sensor 3, bank 2 - circuit range/performance

P2A06 Heated oxygen sensor 1, bank 1 - voltage negative

P2A07 Heated oxygen sensor 2, bank 1 - voltage negative

P2A08 Heated oxygen sensor 3, bank 1 - voltage negative

P2A09 Heated oxygen sensor 1, bank 2 - voltage negative

P2A10 Heated oxygen sensor 2, bank 2 - voltage negative

P2A11 Heated oxygen sensor 3, bank 2 - voltage negative

P2BA7 NOx limit exceeded - reductant tank empty

P2BA8 NOx limit exceeded - flow measurement aborted

reducing agent

P2BA9 Exceeding NOx limit - unsatisfactory quality

reducing agent

P2BAA NOx limit exceeded - reducing agent consumption low

P2BAB NOx limit exceeded - incorrect recirculation level (EGR)

P2BAC Exceeding the limit for NOx - exhaust gas recirculation (EGR)

deactivated

P2BAD NOx limit exceeded - cause unknown

P2BAE NOx limit exceeded - NOx control

P3400 Cylinder Deactivation System Bank 1

P3401 Intake valve deactivation/control, cylinder 1 - open circuit

P3402 Intake valve deactivation/control, cylinder 1 - performance

P3403 Intake valve deactivation/control, cylinder 1 - low

P3404 Intake valve deactivation / control, cylinder 1 - high

P3405 Exhaust valve control, cylinder 1 - open circuit

P3406 Exhaust valve control, cylinder 1 - performance

P3407 Exhaust valve control, cylinder 1 - low

P3408 Exhaust valve control, cylinder 1 - high

P3409 Intake valve deactivation / control, cylinder 2 - open circuit

P340A Intake valve deactivation / control, bank 1 - circuit malfunction

P340B Intake valve deactivation/control, bank 2 - circuit malfunction

P340C Exhaust valve deactivation/control, bank 1 - circuit malfunction

P340D Exhaust valve deactivation/control, bank 2 - circuit malfunction

P3410 Intake valve deactivation/control, cylinder 2 - performance

P3411 Intake valve deactivation/control, cylinder 2 - low

P3412 Intake valve deactivation / control, cylinder 2 - high

P3413 Exhaust valve control, cylinder 2 - open circuit

P3414 Exhaust valve control, cylinder 2 - performance

P3415 Exhaust valve control, cylinder 2 - low

P3416 Exhaust valve control, cylinder 2 - high

P3417 Intake valve deactivation / control, cylinder 3 - open circuit

P3418 Intake valve deactivation/control, cylinder 3 - performance

P3419 Intake valve deactivation/control, cylinder 3 - low

P341A Intake valve deactivation / control, bank 1 - performance

P341B Intake valve deactivation / control, bank 2 - performance

P341C Exhaust valve deactivation/control, bank 1 - performance

P341D Exhaust valve deactivation/control, bank 2 - performance

P3420 Intake valve deactivation / control, cylinder 3 - high

P3421 Exhaust valve control, cylinder 3 - open circuit

P3422 Exhaust valve control, cylinder 3 - performance

P3423 Exhaust valve control, cylinder 3 - low

P3424 Exhaust valve control, cylinder 3 - high

P3425 Intake valve deactivation / control, cylinder 4 - open circuit

P3426 Intake valve deactivation/control, cylinder 4 - performance

P3427 Intake valve deactivation / control, cylinder 4 - low

P3428 Intake valve deactivation / control, cylinder 4 - high

P3429 Exhaust valve control, cylinder 4 - open circuit

P3430 Exhaust valve control, cylinder 4 - performance

P3431 Exhaust valve control, cylinder 4 - low

P3432 Exhaust valve control, cylinder 4 - high

P3433 Intake valve deactivation / control, cylinder 5 - open circuit

P3434 Intake valve deactivation/control, cylinder 5 - performance

P3435 Intake valve deactivation / control, cylinder 5 - low

P3436 Intake valve deactivation / control, cylinder 5 - high

P3437 Exhaust valve control, cylinder 5 - open circuit

P3438 Exhaust valve control, cylinder 5 - performance

P3439 Exhaust valve control, cylinder 5 - low

P3440 Exhaust valve control, cylinder 5 - high

CODE	DECRYPTION
P3441	Deactivation / control of the intake valve, - open circuit
P3442	Intake valve deactivation/control, cylinder 6 - performance
P3443	Intake valve deactivation / control, cylinder 6 - low
P3444	Intake valve deactivation / control, cylinder 6 - high
P3445	Exhaust valve control, cylinder 6 - open circuit
P3446	Exhaust valve control, cylinder 6 - performance
P3447	Exhaust valve control, cylinder 6 - low
P3448	Exhaust valve control, cylinder 6 - high
P3449	Intake valve deactivation / control, cylinder 7 - open circuit
P3450	Intake valve deactivation / control, cylinder 7 - functioning
P3451	Intake valve deactivation/control, cylinder 7 - low level
P3452	Intake valve deactivation / control, cylinder 7 - high
P3453	Exhaust valve control, cylinder 7 - open circuit
P3454	Exhaust valve control, cylinder 7 - performance
P3455	Exhaust valve control, cylinder 7 - low
P3456	Exhaust valve control, cylinder 7 - high
P3457	Intake valve deactivation / control, cylinder 8 - open circuit
P3458	Intake valve deactivation/control, cylinder 8 - performance
P3459	Intake valve deactivation / control, cylinder 8 - low
P3460	Intake valve deactivation / control, cylinder 8 - high
P3461	Exhaust valve control, cylinder 8 - open circuit
P3462	Exhaust valve control, cylinder 8 - performance
P3463	Exhaust valve control, cylinder 8 - low

P3464 Exhaust valve control, cylinder 8 - high

P3465 Intake valve deactivation / control, cylinder 9 - open circuit

P3466 Intake valve deactivation/control, cylinder 9 - performance

P3467 Intake valve deactivation / control, cylinder 9 - low

P3468 Intake valve deactivation / control, cylinder 9 - high

P3469 Exhaust valve control, cylinder 9 - open circuit

P3470 Exhaust valve control, cylinder 9 - performance

P3471 Exhaust valve control, cylinder 9 - low

P3472 Exhaust valve control, cylinder 9 - high

P3473 Intake valve deactivation / control, cylinder 10 - open circuit

P3474 Intake valve deactivation/control, cylinder 10 -
functioning

P3475 Intake valve deactivation / control, cylinder 10 - low

P3476 Intake valve deactivation / control, cylinder 10 - high

P3477 Exhaust valve control, cylinder 10 - open circuit

P3478 Exhaust valve control, cylinder 10 - performance

P3479 Exhaust valve control, cylinder 10 - low

P3480 Exhaust valve control, cylinder 10 - high

P3481 Inlet valve deactivation/control, cylinder 11 - open circuit

P3482 Intake valve deactivation/control, cylinder 11 -
functioning

P3483 Intake valve deactivation / control, cylinder 11 - low

P3484 Intake valve deactivation / control, cylinder 11 - high

P3485 Exhaust valve control, cylinder 11 - open circuit

CODE	DECRYPTION
P3486	Exhaust valve control, cylinder 11 - performance
P3487	Exhaust valve control, cylinder 11 - low
P3488	Exhaust valve control, cylinder 11 - high
P3489	Intake valve deactivation / control, cylinder 12 - open circuit
P3490	Intake valve deactivation/control, cylinder 12 - functioning
P3491	Inlet valve deactivation/control, cylinder 12 - low level
P3492	Intake valve deactivation / control, cylinder 12 - high
P3493	Exhaust valve control, cylinder 12 - open circuit
P3494	Exhaust valve control, cylinder 12 - performance
P3495	Exhaust valve control, cylinder 12 - low
P3496	Exhaust valve control, cylinder 12 - high
P3497	Cylinder deactivation system bank 2

Interblock data bus (CAN-bus) (CAN-II)

CODE	DECRYPTION
U0001	CAN data bus high speed
U0002	CAN data bus, high speed - operation
U0003	CAN data bus, high speed (+) - open circuit
U0004	CAN data bus, high speed (+) - low voltage
U0005	CAN data bus, high speed (+) - high voltage
U0006	CAN data bus, high speed (-) - open circuit
U0007	CAN data bus, high speed (-) - low voltage

U0008 CAN data bus, high speed (-) - high voltage

U0009 CAN data bus, high speed (-) - short to bus (+)

U0010 CAN data bus, medium speed

U0011 CAN data bus, medium speed - operation

U0012 CAN data bus, medium speed (+) - open circuit

U0013 CAN data bus, medium speed (+) - low voltage

U0014 CAN data bus, medium speed (+) - high voltage

U0015 CAN data bus, medium speed (-) - open circuit

U0016 CAN data bus, medium speed (-) - low voltage

U0017 CAN data bus, medium speed (-) - high voltage

U0018 CAN data bus, medium speed (-) - short to bus (+)

U0019 CAN data bus low speed

U0020 CAN data bus, low speed - functioning

U0021 CAN data bus, low speed (+) - open circuit

U0022 CAN data bus, low speed (+) - low voltage

U0023 CAN data bus, low speed (+) - high voltage

U0024 CAN data bus, low speed (-) - open circuit

U0025 CAN data bus, low speed (-) - low voltage

U0026 CAN data bus, low speed (-) - high voltage

U0027 CAN data bus, low speed (-) - short to bus (+)

U0028 Data bus VAN A

U0029 VAN A data bus - operation

U0030 Data bus VAN A (+) - open circuit

U0031 Data bus VAN A (+) - low voltage

U0032 Data bus VAN A (+) - high voltage

U0033 Data bus VAN A (-) - open circuit

U0034 Data bus VAN A (-) - low voltage

U0035 Data bus VAN A (-) - high voltage

U0036 Data bus VAN A (-) - short circuit to bus A (+)

U0037 Data bus VAN B

U0038 Data bus VAN B - operation

U0039 Data bus VAN B (+) - open circuit

U0040 Data bus VAN B (+) - low voltage

U0041 Data bus VAN B (+) - high voltage

U0042 Data bus VAN B (-) - open circuit

U0043 Data bus VAN B (-) - low voltage

U0044 Data bus VAN B (-) - high voltage

U0045 Data bus VAN B (-) - short circuit to bus B (+)

U0046 VAN C data bus

U0047 VAN C data bus - operation

U0048 Data bus VAN C (+) - open circuit

U0049 Data bus VAN C (+) - low voltage

U0050 Data bus VAN C (+) - high voltage

U0051 Data bus VAN C (-) - open circuit

U0052 Data bus VAN C (-) - low voltage

U0053 Data bus VAN C (-) - high voltage

U0054 Data bus VAN C (-) - short circuit to bus C (+)

U0055 VAN D data bus

U0056 VAN D data bus - operation

U0057 Data bus VAN D (+) - open circuit

U0058 Data bus VAN D (+) - low voltage

U0059 Data bus VAN D (+) - high voltage

U0060 Data bus VAN D (-) - open circuit

U0061 Data bus VAN D (-) - low voltage

U0062 Data bus VAN D (-) - high voltage

U0063 Data bus VAN D (-) - short to bus D (+)

U0064 VAN E data bus

U0065 VAN E data bus - operation

U0066 Data bus VAN E (+) - open circuit

U0067 Data bus VAN E (+) - low voltage

U0068 Data bus VAN E (+) - high voltage

U0069 Data bus VAN E (-) - open circuit

U0070 Data bus VAN E (-) - low voltage

U0071 Data bus VAN E (-) - high voltage

U0072 Data bus VAN E (-) - short circuit to bus E (+)

U0073 Transmission control electronics - data bus disabled

U0074 Communication bus control unit B - data bus disabled

U0080 VAN F data bus

U0081 VAN F data bus - operation

U0082 Data bus VAN F (+) - open circuit

U0083 Data bus VAN F (+) - low voltage

U0084 Data bus VAN F (+) - high voltage

U0085 Data bus VAN F (-) - open circuit

U0086 Data bus VAN F (-) - low voltage

U0087 Data bus VAN F (-) - high voltage

U0088 Data bus VAN F (-) - short to bus F (+)

U0100 Data bus, electronic engine control module (ECM) A - no communication

U0101 Data bus, transmission control module (TCM) - no communication

U0102 Data bus, transfer case control unit - no communication

U0103 Data bus, gearshift control unit - no communication

U0104 Data bus, cruise control control unit - no communication

U0105 Data bus, injector control unit - no communication

U0106 Data bus, glow plug control unit - no communication

U0107 Data bus, throttle actuator control unit - no communication

U0108 Data bus, alternative fuel control unit - no communication

U0109 Data bus, fuel pump control unit - no communication

U010A Exhaust gas recirculation (EGR) control unit A - loss
communication signal

U010B Exhaust gas recirculation (EGR) control unit - loss
connections

U010C Turbocharger/supercharger control unit A - loss
communication signal

U010D Turbocharger/supercharger control unit B - loss

communication signal

U010E Reductor system control unit - communication signal loss

U010F Air conditioning control unit - communication signal loss

U0110 Data bus drive motor control unit - no communication

U0111 Data bus, battery charge control unit A - no communication

U0112 Data bus, battery charge control unit B - no communication

U0113 Data bus, emission control system - no communication

U0114 Data bus, 4WD clutch control module - no communication

U0115 Data bus, electronic engine control module (ECM) B - no communication

U0116 Lost Communication With Coolant Temperature Control Module

U0117 Loss of communication with the power take-off control unit

U0118 Loss of communication with additive control unit

U0119 Loss of communication with the fuel cell control unit

U011A Exhaust gas sensor control unit - communication signal loss

U011B Rocker arm control unit A - communication signal loss

U011C Control unit In rocker arms - loss of communication signal

U011D 4WD electronic control unit - communication lost

U011E Electronic Throttle Control (ETS) Block B -

loss of connection

U0120 Lost Communication with Generator/Starter Control Module

U0121 Data bus, ABS electronic control unit - no communication

U0122 Data bus, stability control module - no communication

U0123 Data bus, lateral movement sensor unit - no communication

U0124 Data bus, lateral acceleration sensor unit - no communication

U0125 Data bus, multi-axis acceleration sensor block - no communication

U0126 Data bus, steering wheel position sensor unit - no communication

U0127 Data bus, tire pressure monitoring unit - no communication

U0128 Data bus, parking brake control unit - no communication

U0129 Data bus, brake control unit - no communication

U012A Chassis control unit A - communication lost

U012B Chassis control unit B - communication lost

U012C Vibration reduction system control unit - communication lost

U0130 Data bus, variable power steering unit - no communication

U0131 Data bus, power steering control unit - no communication

U0132 Data bus, clearance control unit - no communication

U0133 Lost Communication with Active Roll Control

U0134 Lost communication with power steering control module,
rear

U0135 Loss of communication with the differential control unit, rear

U0136 Loss of communication with differential control unit, front

U0137 Lost Communication With Trailer Brake Control Module

U0138 Lost communication with the All-Terrain system control unit

U0139 Lost communication with control unit B suspension

U0140 Data bus, electrical control module (BCM) - no communication

U0141 Data bus, electrical control module (BCM) A - no communication

U0142 Data bus, electrical control module (BCM) B - no communication

U0143 Data bus, electrical control module (BCM) C - no communication

U0144 Data bus, electrical control module (BCM) D - no communication

U0145 Data bus, electrical control module (BCM) E - no communication

U0146 Data bus, gateway A - no communication

U0147 Data bus, gateway B - no communication

U0148 Data bus, gateway C - no communication

U0149 Data bus, gateway D - no communication

U0150 Data bus, gateway E - no communication

U0151 Data bus, SRS control unit - no communication

U0152 Data bus, SRS control unit, left - no communication

U0153 Data bus, SRS control unit, right - no communication

U0154 Data bus, passenger presence control unit (SRS) - no communication

U0155 Data bus, instrument cluster control unit - no communication

U0156 Data bus, data center A - no communication

U0157 Data bus, information center B - no communication

U0158 Data bus, upper display - no communication

U0159 Data bus, parking system control module A - no communication

U0160 Data bus, horn control unit - no communication

U0161 Data bus, compass unit - no communication

U0162 Data bus, navigation display unit - no communication

U0163 Data bus, navigation system control unit - no communication

U0164 Data bus, air conditioning control unit - no communication

U0165 Data bus, air conditioning control unit, rear

U0166 Data bus, auxiliary heater control unit - no communication

U0167 Data bus, immobilizer control unit - no communication

U0168 Data bus, anti-theft control unit - no communication

U0169 Data bus, sunroof control unit - no communication

U016A Navigation system control unit - communication lost

U016B Electric A/C compressor control unit - communication lost

U016C Fuel pump control unit B - communication lost

U0170 Data bus, SRS sensor A - no communication

U0171 Data bus, SRS sensor B - no communication

U0172 Data bus, SRS sensor C - no communication

U0173 Data bus, SRS D sensor - no communication

U0174 Data bus, SRS E sensor - no communication

U0175 Data bus, SRS F sensor - no communication

U0176 Data bus, SRS G sensor - no communication

U0177 Data bus, SRS H sensor - no communication

U0178 Data bus, SRS sensor I - no communication

U0179 Data bus, SRS J sensor - no communication

U017A Sensor K of the passive safety system - loss of communication signal

U017B Sensor L of the passive safety system - loss of communication signal

U017C SRS sensor M - communication signal loss

U017D Sensor N of the passive safety system - loss of communication signal

U017E Pretensioner control unit A - communication lost

U017F Pretensioner control unit B - communication lost

U0180 Data bus, automatic lighting control unit - no

connections

U0181 Data bus, headlight range control unit - no communication

U0182 Data bus, lighting control unit, front - no communication

U0183 Data bus, lighting control unit, rear - no communication

U0184 Data bus, radio - no communication

U0185 Data bus, antenna unit - no communication

U0186 Data bus, audio output amplifier - no communication

U0187 Data bus, CD player/changer unit A - no communication

U0188 Data bus, CD player/changer unit B - no communication

U0189 Data bus, CD player/changer unit C - no communication

U0190 Data bus, CD player/changer unit D - no communication

U0191 Data bus, TV - no connection

U0192 Data bus, personal computer - no communication

U0193 Data bus, digital audio control unit A - no communication

U0194 Data bus, digital audio control unit B - no communication

U0195 Data bus, multimedia system subscription receiver unit - no communication

U0196 Data bus, multimedia system control unit, rear - no communication

U0197 Data bus, telephone control unit - no connection

U0198 Data bus, telematics control unit - no communication

U0199 Data bus, door functions control unit A - no communication

U0200 Data bus, door function control unit B - no communication

U0201 Data bus, door functions control unit C - no communication

U0202 Data bus, door function control unit D - no communication

U0203 Data bus, door function control unit E - no communication

U0204 Data bus, door function control unit F - no communication

U0205 Data bus, door function control unit G - no communication

U0206 Data bus, roof folding control unit - no communication

U0207 Data bus, mobile roof control unit - no communication

U0208 Data bus, seat adjustment control unit A - no communication

U0209 Data bus, seat adjustment control unit A - no communication

U0210 Data bus, seat adjustment control unit C - no communication

U0211 Data bus, seat adjustment control unit D - no communication

U0212 Data bus, steering column control unit - no communication

U0213 Data bus, mirror control unit A - no communication

U0214 Data bus, remote control of devices - no communication

U0215 Data bus, door limit switch A - no communication

U0216 Data bus, door limit switch B - no communication

U0217 Data bus, door switch C - no communication

U0218 Data bus, door switch D - no communication

U0219 Data bus, door switch E - no communication

U0220 Data bus, door limit switch F - no communication

U0221 Data bus, door switch G - no communication

U0222 Data bus, power windows A - no communication

U0223 Data bus power window B - no communication

U0224 Data bus, power windows C - no communication

U0225 Data bus, power windows D - no communication

U0226 Data bus, power windows E - no communication

U0227 Data bus, power windows F - no communication

U0228 Data bus, power windows G - no communication

U0229 Data bus, heated steering wheel control unit - no communication

U0230 Data bus, rear door control unit - no communication

U0231 Data bus, rain sensor unit - no communication

U0232 Data bus, side interference detection system unit, left - no communication

U0233 Data bus, side interference detection system unit, right - no communication

U0234 Data bus, comfort system unit - no communication

U0235 Data bus, front cruise control distance sensor -
no connection

U0236 Steering column lock control unit - communication lost

U0237 Control unit C audio system (DAB) - loss of communication

U0238 Control unit D audio system (DAB) - loss of communication

U0239 Theft Lock System Unit A - Communication Lost

U023A Image processing unit A - communication signal loss

U023B Image processing unit B - communication signal loss

U023C Image processing unit C - communication signal loss

U023D Cruise control distance sensor, left front - loss
connections

U023E Cruise control distance sensor, front right - loss
connections

U0240 Theft Lock System Unit B - Communication Lost

U0241 Headlight control unit A - communication lost

U0242 Headlight control unit B - communication lost

U0243 Parking system control module B - communication lost

U0244 Footboard control unit A - communication lost

U0245 Media system control unit, front - communication lost

U0246 Seat actuator control unit E - communication lost

U0247 Seat actuator control unit F - communication lost

U0248 Accessory remote control unit - loss

connections

U0249 Media control unit B, rear - communication lost

U024A Interior lighting control unit - communication lost

U024B Seat drive control unit G - communication lost

U024C Seat drive control unit H - communication lost

U0250 Collision classification system unit - communication lost

U0251 Footboard control unit B - communication lost

U0252 Taillight control module B - communication lost

U0253 Additional protocol interface block - communication lost

U0254 Remote start unit - communication lost

U0255 Front display interface unit - communication lost

U0256 Front control interface unit A - communication lost

U0257 Front display / front control interface unit - communication lost

U0258 Radio transceiver - communication lost

U0259 Special Purpose Vehicle Control Unit A - Communication Lost

U025A Special purpose vehicle control unit B - signal loss

connections

U025B Control unit From special purpose vehicle - signal loss

connections

U025C Special purpose vehicle control unit D - signal loss

connections

U025D Front control interface unit B - communication lost

U0260 Seat adjustment control unit A - communication lost

U0261 Seat adjustment control unit B - communication lost

U0262 Audio output amplifier B - communication lost

U0263 Voice activation system unit - communication lost

U0264 Camera unit - communication lost

U0286 Lost communication with anti-shock device of the radiator

U0287 Lost Communication With Transmission Fluid Pump Module

U0288 Loss of communication with DC/AC converter control unit A

U0289 Loss of communication with DC/AC converter control unit B

U0291 Lost Communication With Shift Control Module B

U0292 Loss of communication with drive motor control unit B

U0293 Lost Communication With Hybrid Powertrain Control Module

U0294 Lost Communication with Powertrain Control Module

U0295 Loss of communication with AC/AC converter control unit A

U0296 Loss of communication with AC/DC converter control unit A

U0297 Loss of communication with AC/DC converter control unit B

U0298 Loss of communication with DC/DC converter control unit A

U0299 Loss of communication with DC/DC converter control unit B

U029A Hybrid battery sensor - communication lost

U029B Lost Communication With Drive Motor Control Module C

U029C Lost Communication with Drive Motor Control Module D

U029D NOx sensor A - communication lost

U029E NOx B sensor - communication lost

U029F Evaporative emission system leak detection unit - communication lost

U0300 Control unit - software incompatibility

U0301 Software incompatibility - electronic control unit
engine

U0302 Software incompatibility - electronic control unit
checkpoint

U0303 Software incompatibility - transfer case control unit
box

U0304 Software incompatibility - control unit
gear shifting

U0305 Software incompatibility - cruise control control unit

U0306 Software incompatibility - injector control unit

U0307 Software incompatibility - spark plug control unit
incandescent

U0308 Software Incompatibility - Throttle Actuator Control Module

U0309 Software incompatibility - feed control unit
alternative fuel

U030A Evaporative emission system leak detection unit - communication lost

CODE	DECRYPTION
U0310	Software incompatibility - fuel control module pump
U0311	Software incompatibility - control unit drive motor
U0312	Software incompatibility - charge control unit batteries A
U0313	Software incompatibility - charge control unit batteries B
U0314	Software incompatibility - clutch control unit enabling 4WD
U0315	Software incompatibility - electronic control unit ABS
U0316	Software Incompatibility - Stability Control Module
U0317	Software incompatibility - parking control unit brake
U0318	Software incompatibility - brake control unit system
U0319	Software incompatibility - steering system unit variable gain control
U0320	Software incompatibility - amplifier control unit steering
U0321	Software incompatibility - clearance control unit
U0322	Software incompatibility - control unit electrical equipment
U0323	Software incompatibility - combination control unit appliances
U0324	Software incompatibility - control unit air conditioned

U0325 Software incompatibility - control unit

auxiliary heater

U0326 Software incompatibility - immobilizer control unit

U0327 Software incompatibility - control unit

anti-theft system

U0328 Software incompatibility - encoder block

steering wheel

U0329 Software incompatibility - steering control unit

column

U0330 Software incompatibility - pressure control unit in

tires

U0331 Software incompatibility - control unit

electrical equipment A

U0332 Software incompatibility - multi-axis unit

acceleration sensor

U0333 Software incompatibility with control unit B

gear shift

U0334 Software incompatibility with audio system

U0335 Software incompatibility with hybrid battery sensor

power plant

U0336 SRS control unit - software designation incompatibility

U0400 Invalid data received

U0401 Invalid data received - engine control unit

U0402 Invalid data received - electronic transmission control unit

U0403 Invalid data received - transfer case control unit

U0404 Invalid data received - shift control module

U0405 Invalid data received - maintenance system control unit
speed

U0406 Invalid data received - injector control unit

U0407 Invalid data received - glow plug control unit

U0408 Invalid data received - throttle actuator control unit
dampers

U0409 Invalid data received - alternative supply control unit
fuel

U040A Invalid data received from air conditioning control unit

U040B Invalid data received from recirculation control unit A
exhaust gases

U040C Invalid data received from EGR control unit B

U040D Invalid data received from turbocharger control unit A /
drive supercharger

U040E Invalid data received from turbocharger control unit B /
drive supercharger

U040F Invalid data received from reductor control unit

U0410 Invalid data received - fuel pump control unit

U0411 Invalid data received - motor control unit
drive

U0412 Invalid data received - battery charge control module A

U0413 Invalid data received - battery charge control module B

U0414 Invalid data received - 4WD clutch control module

U0415 Invalid data received - ABS electronic control unit

U0416 Invalid data received - Stability Control Module

U0417 Invalid data received - parking brake control unit

U0418 Invalid data received - brake control unit

U0419 Invalid data received - power steering unit with
variable gain

U041B Invalid data received from exhaust gas sensor control unit

U041C Invalid data received from rocker arm control unit A

U041D Invalid data received from control unit B rocker arms

U041E Invalid data received from 4WD control unit

U041F Invalid Data Received From Electronic Throttle Control (ETS) Block B

U0420 Invalid data received - power steering control unit
management

U0421 Invalid data received - clearance control unit

U0422 Invalid data received - electrical control unit

U0423 Invalid data received - instrument cluster control unit

U0424 Invalid data received - electronic control unit
air conditioned

U0425 Invalid data received - additional control unit
heater

U0426 Invalid data received - immobilizer electronic control unit

U0427 Invalid data received - anti-theft control unit
system

U0428 Invalid data received - steering wheel position sensor unit

U0429 Invalid data received - steering column control unit

U042B Invalid data received from chassis control unit A

U042C Invalid data received from chassis control unit B

U042D Invalid data received from the reduction system control unit
vibrations

U042E INVALID DATA RECEIVED FROM GENERATOR CONTROL MODULE

U0430 Invalid data received - tire pressure monitoring unit

U0431 Invalid data received - electrical control unit A

U0432 Invalid data received from multi-axis acceleration sensor

U0433 Invalid data received from the distance sensor of the support system
speed, forward

U0434 Invalid data received from Active Roll Control

U0435 Invalid data received from power steering control unit
control, rear

U0436 Invalid data received from the differential control unit,
front

U0437 Invalid data received from the differential control unit,
rear

U0438 Invalid data received from trailer brake control unit

U0439 Invalid data received from All-Terrain system control unit

U043A Invalid data received from suspension control unit B

U043B Invalid data received from the distance sensor of the support system
speed, front left

U043C Invalid data received from the distance sensor of the support system
speed, front right

U0441 Invalid data received from emission control system

U0442 Invalid ECM/PCM B data received

U0443 Invalid data received from electrical control unit B

U0444 Invalid data received from electrical control unit C

U0445 Invalid data received from electrical control unit D

U0446 Invalid data received from electrical control unit E

U0447 Invalid data received from gateway A

U0448 Invalid data received from Gateway B

U0449 Invalid data received from Gateway C

U044A Invalid data received from gateway D

U0450 Invalid data received from gateway D

U0451 Invalid data received from Gateway E

U0452 Invalid data received from the passive system control unit
security (SRS)

U0453 Invalid data received from the side system control unit
passive safety (SRS), left

U0454 Invalid data received from the side system control unit
passive safety (SRS), right

U0455 Invalid data received from presence recognition system unit
passenger (passive safety)

U0456 Invalid data received from temperature control unit
coolant

U0457 Invalid data received from data center A

U0458 Invalid data received from data center B

U0459 Invalid data received from upper display

U045A Invalid data received from control unit A for assistance with parking lot

U0461 Invalid data received from the emergency sound control unit signal
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U0462 Invalid data received from compass unit

U0463 Invalid data received from navigation display unit
--

U0464 Invalid data received from navigation control unit
--

U0465 Invalid data received from power take-off control unit
--

U0466 Invalid data received from the air conditioning control unit, rear
--

U0467 Invalid data received from additive control unit
--

U0468 Invalid data received from the fuel control unit elements

U0469 Invalid data received from the generator control unit / starter

U046A Invalid data received from sunroof control unit

U046B Invalid data received from navigation control unit
--

U046C Invalid data received from the electrical control unit air conditioning compressor
--

U046D Invalid data received from fuel pump control module B

U0471 Invalid data received from SRS sensor A

U0472 Invalid data received from SRS sensor B

U0473 Invalid data received from SRS sensor C

U0474 Supplemental Restraint System (SRS) Sensor D Invalid Data Received

U0475 Invalid data received from SRS sensor E

U0476 Invalid data received from SRS sensor F

U0477 Supplemental Restraint System (SRS) G Sensor Invalid Data Received

U0478 Invalid data received from SRS sensor H

U0479 Invalid data received from SRS sensor I

U047A Supplemental Restraint System (SRS) Sensor J Invalid Data Received

U047B Supplemental Restraint System (SRS) K Sensor Invalid Data Received

U047C Invalid data received from SRS L sensor

U047D Supplemental Restraint System (SRS) M Sensor Invalid Data Received

U047E Invalid data received from SRS N sensor

U047F Invalid data received from pretensioner control unit A

U0480 Invalid data received from pretensioner B control unit

U0481 Invalid data received from automation control unit
lighting

U0482 Invalid data received from headlight beam level control unit

U0483 Invalid data received from the lighting control unit,
front

U0484 Invalid data received from lighting control unit, rear A
--

U0485 Invalid data received from audio system

U0486 Invalid data received from radio antenna unit

U0487 Invalid data received from audio system output amplifier A
--

U0488 Invalid data received from CD player unit A

U0489 Invalid data received from unit B of the CD player
--

U048A Invalid data received from unit C of CD player/drive disks

U0491 Invalid data received from CD player unit D

U0492 Invalid data received from TV

U0493 Invalid data received from personal computer
--

U0494 Invalid data received from control unit A digital audio systems
--

U0495 Invalid data received from control unit B digital audio systems
--

U0496 Invalid data received from media subscription receiver systems

U0497 Invalid data received from the multimedia system control unit, rear A

U0498 Invalid data received from phone control unit

U0499 Invalid data received from telematics control unit
--

U049A Invalid data received from control unit A door functions
--

U04A4 INVALID DATA RECEIVED FROM PM SENSOR
--

U0501 Invalid data received from control unit B door functions
--

U0502 Invalid data received from control unit With door functions

U0503 Invalid data received from control unit D door functions

U0504 Invalid data received from control unit E door functions

U0505 Invalid data received from control unit F door functions

U0506 Invalid data received from control unit G door functions

U0507 Invalid data received from folding control unit
roof

U0508 Invalid data received from sliding roof control unit

U0509 Invalid data received from seat control unit A

U050A Invalid data received from regulation control unit B
seats

U0511 Invalid data received from control unit With seats

U0512 Invalid data received from D seat control module

U0513 Invalid data received from yaw sensor

U0514 Invalid data received from mirror control unit A

U0515 Invalid data received from the activator of the functions of the remote
management

U0516 Invalid data received from door switch A

U0517 Invalid data received from door switch

U0518 Invalid data received from door switch C

U0519 Invalid data received from door switch D

U051A Invalid data received from door switch E

U0521 Invalid data received from door switch F

U0522 Invalid data received from door switch G

U0523 Invalid data received from power window motor A
doors

U0524 Invalid data received from power window motor B
doors

U0525 Invalid data received from electric motor C power window
doors

U0526 Invalid data received from power window motor D
doors

U0527 Invalid data received from power window motor E
doors

U0528 Invalid data received from power window motor F
doors

U0529 Invalid data received from power window motor G
doors

U052A Invalid data received from function control unit
heated steering wheel

U0531 Invalid data received from rear door unit

U0532 Invalid data received from rain sensor unit

U0533 Invalid data received from the left side obstruction detection control unit

U0534 Invalid data received from the control unit for determining the side obstacle,
right

U0535 Invalid data received from comfort unit

U0536 Invalid data received from lateral acceleration sensor unit

U0537 Invalid data received from steering lock control unit
columns

U0538 Invalid data received from control unit C digital
audio systems

U0539 Invalid data received from control unit D digital
audio systems

U053A Invalid data received from control unit A of the locking system
when stolen

U053B Invalid data received from image processing unit A

U053C Invalid data received from image processing unit B

U053D Invalid data received from image processing unit C

U0541 Invalid data received from control unit B of the locking system
when stolen

U0542 Invalid data received from headlight control unit A

U0543 Invalid data received from headlight control unit B

U0544 Invalid data received from control unit B for assistance with
parking lot

U0545 Invalid data received from footrest control unit

U0546 Invalid data received from the multimedia system control unit, front

U0547 Invalid data received from seat control unit E

U0548 Invalid data received from F seat control unit

U0549 Invalid data received from remote control unit
additional equipment

U054A Invalid data received from rear control unit B
multimedia system

U054B Invalid data received from the internal control unit
lighting

U054C Invalid data received from G seat control module

U054D Invalid data received from seat control unit H

U0551 Invalid data received from collision classification system unit

U0552 Invalid data received from footboard control unit B

U0553 Invalid data received from lighting control unit, rear B

U0554 Invalid data received from optional interface unit
protocol

U0555 Invalid data received from remote start unit

U0556 Invalid data received from front display interface unit

U0557 Invalid data received from front control interface unit

U0558 Invalid data received from front control/display interface unit

U0559 Invalid data received from radio transceiver

U055A Invalid data received from vehicle control unit A
special purpose

U055B Invalid data received from vehicle control unit B
special purpose

U055C Invalid data received from vehicle control unit C
special purpose

U055D Invalid data received from vehicle control unit D
special purpose

U055E Invalid data received from front control interface unit
B

U0561 Invalid data received from control switch box A
seats

U0562 Invalid data received from control switch block B
seats

U0563 Invalid data received from audio amplifier B

U0564 Invalid data received from voice recognition unit

U0565 Invalid data received from camera unit, rear

U0587 Invalid data received from damage control system
radiator

U0588 Invalid data received from transmission fluid pump assembly

U0589 Invalid data received from converter control unit A
DC/AC

U058A Invalid data received from converter control unit B
DC/AC

U0592 Invalid data received from control unit B by switching
gear

U0593 Invalid data received from motor control unit B
drive

U0594 Invalid data received from the hybrid power control unit
aggregate

U0595 Invalid data received from powertrain control unit

U0596 Invalid data received from converter control unit
AC/AC

U0597 Invalid data received from converter control unit A
AC/DC

U0598 Invalid data received from converter control unit B
AC/DC

U0599 Invalid data received from converter control unit A
DC/DC

U059A Invalid data received from converter control unit B
DC/DC

U059B Invalid data received from hybrid battery sensor module

U059C Invalid data received from motor control unit C
drive

U059D Invalid data received from motor control unit D drive

U059E Invalid data received from NOx sensor A

U059F Invalid data received from NOx sensor B

U05A0 Invalid data received from system leak detection unit vapor recovery

U2000 Audio Rear Control Unit is Not Responding

U2001 Audio Tape Deck Unit is Not Responding

U2002 Audio Bezel is Not Responding

U2003 Audio Compact Disk / Disk Jockey Unit is Not Responding

U2004 Audio Steering Wheel Control Unit is Not Responding

U2005 Audio Rear Integrated Control Panel Unit is Not Responding

U2006 Audio Remote Climate Control Unit is Not Responding

U2007 Audio Navigation Unit is Not Responding

U2008 Audio Phone is Not Responding

U2009 Audio Front Control Module ACM is Not Responding

U2010 Module is Not Responding (Non SCP)

U2011 Module Transmitted Invalid Data (Non SCP)

U2012 Communication Bus Error (Non SCP)

U2013 Compass Module is not Responding

U2014 Audio Subwoofer Unit is Not Responding

U2015 Signal Link Fault (Non SCP)

U2016 Signal Link Short to Ground (Non SCP) / From NGV Module

U2017 Driver Side Crash Sensor? Communication Fault (Non SCP)

U2018 Passenger Side Crash Sensor? Communication Fault (Non SCP)

U2019 Audio Voice Module Not Responding

U2020 Audio Center Amp is not responding

U2021 Invalid /fault data received (Non SCP)

U2150 Invalid Data from REM?

U2152 Invalid Data from GEM

U2160 Invalid Data from IC

U2195 Invalid Data from SCLM?

U2500 CAN Lack of Acknowledgment From Engine Management

U3000 Control unit

U3001 Control unit - incorrect forced stop

U3002 Vehicle Identification Number (VIN)

U3003 Battery voltage

U3004 Accessory Power Relay

U3005 Power supply for fixed accessories

U3006 Control unit - supply voltage, input A

U3007 Control unit - supply voltage, input B

U3008 Control unit - ground connection A

U3009 Control unit - ground connection B

U300A Ignition switch

U300B Ignition input, ACC/ON/Start position - malfunction

U300C Ignition input, OFF/ON/Start position - malfunction

U300D Ignition input, ON/Start position - malfunction

CODE	DECRYPTION
	U300E Ignition input, ON position - malfunction
	U300F Ignition input, ACC position - malfunction
	U3010 Ignition input, START position - malfunction
	U3011 Ignition input, OFF position - malfunction

Additional codes

CODE	DESCRIPTION
1	General electrical fault
2	General signal error
3	FM / Pulse Modulated Signal Error
4	Internal system error
5	System programming error
6	Algorithm error
7	Mechanical failure
8	Data bus signal error / message
9	Component Error
eleven	Short circuit to ground
12	Short to +
13	Open circuit
14	Open circuit/short to ground
15	Open circuit / short circuit to +
16	Circuit voltage lower than required
17	Voltage in the circuit is higher than required

CODE DESCRIPTION

18	The current in the circuit is below the required
19	Current in the circuit is higher than required
21	Signal amplitude below minimum
22	Signal amplitude above maximum
23	Signal - constantly low level
24	Signal - constantly high level
25	Waveform error
26	The amount of signal change is below the required
27	The amount of signal change is higher than required
28	Signal offset value out of range / zero adjustment error
29	Incorrect signal
31	No signal
32	Low signal level - the period is less than the minimum allowable
33	Low signal level - the period is greater than the maximum allowable
34	High signal level - the period is less than the minimum allowable
35	High signal level - the period is greater than the maximum allowable
36	Signal frequency - too low
37	Signal frequency - too high
38	Signal frequency - incorrect
39	Signal - too few pulses
41	General checksum error
42	General memory error

CODE DESCRIPTION	
43	General memory error
44	Data memory error
45	Program memory error
46	Calibration/parameter memory error
47	Security microcontroller error
48	Control software error
49	Internal electronic error
51	Component not programmed
52	Component program not activated
53	Component program disabled
54	Loss of calibration
55	System not configured
56	Invalid/incompatible configuration
57	Wrong/incompatible component software
61	Signal calculation error
62	Signal compare error
63	Circuit/component protection waiting time
64	Signal validity error
65	Signal - too few switching
66	Signal - too many switches
67	Incorrect signal after switching
68	Event information
71	Drive - sticking

CODE DESCRIPTION	
72	Actuator stuck open
73	Actuator - stuck closed
74	Drive - slip
75	Emergency position cannot be reached
76	Wrong installation position
77	Desired position cannot be reached
78	Incorrect alignment or adjustment
79	Mechanical drive error
81	Invalid data sequence received
82	Cycle counter - value incorrect / not updated
83	Incorrect calculated value of the protective signal
84	Signal - below acceptable level
85	Signal - above acceptable level
86	Incorrect signal
87	Message skip
88	Data bus disabled
91	Component parameter is out of range
92	Operation / malfunction
93	It does not work
94	Unexpected component action
95	Incorrect assembly
96	Internal Component Error
97	The operation of a component or system is hindered or blocked

CODE	DESCRIPTION
98	Component or system overheating
1A	Circuit resistance below required
1B	The resistance in the circuit is higher than required
1C	Circuit voltage out of range
1D	Circuit current out of range
1E	Circuit resistance out of range
1F	Unreliable contact of the electrical circuit
2A	Signal - constant level
2B	Signal - cross
2F	Signal - chaotic
3A	Signal - too many pulses
4A	Incorrectly installed component
4B	Overheating condition
7A	Fluid leak or seal leak
7B	low fluid level
8F	Signal - chaotic
9A	Component or system operating conditions

SUVs



Russia



~~Great Britain~~



~~Germany~~



India



Spain



Italy



China



~~Korea~~



~~Romania~~



USA



~~France~~



Czech



~~Sweden~~



Japan

Crossovers



Russia



~~Great Britain~~



~~Germany~~



Spain



Italy



China



~~Korea~~



~~Romania~~



USA



Taiwan



~~France~~



Czech



~~Sweden~~



Japan

Sedans



Russia



Australia



Great Britain



Germany



Iran



Spain



Italy



China



Korea



Malaysia



Poland



Romania



USA



Taiwan



Uzbekistan



Ukraine



France



Czech



Sweden



Japan