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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

CODE	DECRYPTION
	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

CODE	DECRYPTION
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).

CODE	DECRYPTION
	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

CODE	DECRYPTION
	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).

CODE	DECRYPTION
	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

CODE	DECRYPTION
	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)

CODE	DECRYPTION
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

CODE	DECRYPTION
	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

P001D Intake camshaft profile control A, bank 2 - open
chains

P001E Intake camshaft profile control A, bank 2 - low
signal level

P001F Intake camshaft profile control A, bank 2 - high
signal level

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

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

P0024 Camshaft Position Exhaust/LH/Rear Bank 2 -
opening angle too early / system functioning

P0025 Camshaft Position Exhaust/LH/Rear Bank 2 -
too late opening angle

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

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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
	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

CODE	DECRYPTION
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

CODE	DECRYPTION
	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

CODE	DECRYPTION
	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

P0267 Injector 3 - low signal

P0268 Injector 3 - high signal

P0269 Cylinder 3 - incorrect power balance

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

P0273 Injector 5 - low signal

P0274 Injector 5 - high signal

P0275 Cylinder 5 - incorrect power balance

P0276 Injector 6 - low signal

P0277 Injector 6 - high signal

P0278 Cylinder 6 - incorrect power balance

P0279 Injector 7 - low signal

P027A Fuel pump control unit B - open circuit

P027B Fuel pump control module B - range / performance

P027C Fuel pump control module B - circuit low

P027D Fuel pump control module B - circuit high

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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)

CODE	DECRYPTION
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

CODE	DECRYPTION
	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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE

DECRYPTION

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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
P0449	Evaporative emission system, purge control valve - circuit malfunction
P044A	Exhaust gas recirculation (EGR) sensor C - malfunction electrical circuit
P044B	Exhaust gas recirculation (EGR) sensor C - circuit range/performance
P044C	Exhaust gas recirculation (EGR) sensor C - low signal
P044D	Exhaust gas recirculation (EGR) sensor C - high signal
P044E	Exhaust gas recirculation (EGR) sensor C - intermittent / chaotic signal
P044F	Switching solenoid valve A for air supply to the outlet - high signal
P0450	Evaporative emission system pressure sensor - circuit malfunction
P0451	Evaporative emission system pressure sensor circuit range/performance
P0452	Evaporative emission system pressure sensor - low signal
P0453	Evaporative emission system pressure sensor - high signal
P0454	Evaporative emission system pressure sensor - unreliable contact electrical circuit
P0455	Evaporative emission system - significant leak
P0456	Evaporative emission system - extremely minor leak
P0457	Evaporative emission system - leak (loose or open cover fuel filler neck)

P0458 Evaporative emission control system, fuel vapor accumulator valve - circuit low

P0459 Evaporative emission control system, fuel vapor accumulator valve - circuit high

P045A Exhaust gas recirculation (EGR) valve B actuator - circuit malfunction

P045B Exhaust gas recirculation (EGR) valve B - circuit range/performance

P045C Exhaust gas recirculation (EGR) valve actuator B - low
signal level

P045D Exhaust gas recirculation (EGR) valve actuator B - high
signal level

P045E Exhaust gas recirculation (EGR) B valve actuator - actuator
stuck in open position

P045F Exhaust gas recirculation (EGR) valve B - valve stuck in
closed position

P0460 Fuel level sensor - electrical circuit malfunction

P0461 Fuel level sensor - circuit range / performance

P0462 Fuel level sensor - low signal

P0463 Fuel level sensor - high input

P0464 Fuel level sensor - unreliable contact of the electrical circuit

P0465 Fuel vapor accumulator flow sensor - circuit malfunction

P0466 Fuel vapor accumulator flow sensor - range /
functioning

P0467 Flow sensor through the fuel vapor accumulator - low signal

P0468 Flow sensor through the fuel vapor accumulator - high signal

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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
P04CB	Fuel filler cap open sensor/switch - constantly high signal level
P04CC	Fuel filler cap open sensor/switch - intermittent/erratic signal
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
P04D1	Exhaust gas recirculation (EGR) temperature sensor C - high signal level
P04D2	Exhaust gas recirculation (EGR) temperature sensor C - intermittent / erratic signal
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
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
P04DA	Exhaust Gas Recirculation (EGR) Control (Closed Loop Mode) Control Limit Reached High Flow
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
	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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE

DECRYPTION

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

CODE	DECRYPTION
	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

CODE	DECRYPTION
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

CODE	DECRYPTION
	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

CODE	DECRYPTION
	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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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
P092C	Shift lock solenoid/actuator control circuit B - low signal level
P092D	Shift lock solenoid/actuator control circuit B - high signal level
P0930	Shift lock solenoid valve - low circuit voltage
P0931	Shift lock solenoid valve - high circuit voltage
P0932	Hydraulic pressure sensor - circuit malfunction
P0933	Hydraulic pressure sensor - range / performance
P0934	Hydraulic pressure sensor - low signal
P0935	Hydraulic pressure sensor - high input
P0936	Hydraulic pressure sensor - unreliable contact of the electrical circuit
P0937	Hydraulic fluid temperature sensor - circuit malfunction
P0938	Hydraulic Fluid Temperature Sensor Range/Performance
P0939	Hydraulic fluid temperature sensor - low signal
P0940	Hydraulic fluid temperature sensor - high input signal

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
	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

CODE	DECRYPTION
	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

CODE	DECRYPTION
	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

CODE	DECRYPTION
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

CODE

DECRYPTION

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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
	P0B5C Hybrid battery voltage sensor G - circuit high signal
	P0B5D Hybrid battery voltage G sensor - circuit intermittent/erratic
	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
	P0B62 Hybrid battery voltage sensor H - intermittent/ missing contact of the electrical circuit
	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
	P0B67 Hybrid battery voltage sensor I - intermittent/ missing contact of the electrical circuit
	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

CODE	DECRYPTION
	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

CODE

DECRYPTION

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

CODE	DECRYPTION
	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

CODE	DECRYPTION
	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

CODE	DECRYPTION
	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

CODE	DECRYPTION
	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

CODE	DECRYPTION
	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

CODE	DECRYPTION
	P0C77 Hybrid battery system - time too short pre-charge
	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
	P0C7B Generator inverter voltage too high
	P0C7C Hybrid battery temperature sensor G - circuit malfunction
	P0C7D Hybrid battery pack G temperature sensor circuit range/performance
	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
	P0C85 Hybrid battery temperature sensor H - circuit intermittent/erratic
	P0C86 F/G hybrid battery temperature sensor - correlation
	P0C87 G/H hybrid battery temperature sensor - correlation

CODE	DECRYPTION
	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 signal
	P0C8C Hybrid battery temperature sensor I - circuit intermittent/erratic
	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 signal
	P0C91 Hybrid battery temperature sensor J - circuit intermittent/erratic
	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
	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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
P206F	Intake manifold geometry actuator bank 2 - actuator stuck in closed position
P2070	Intake manifold geometry change actuator - actuator stuck in open position
P2071	Intake manifold geometry change drive - drive stuck in closed position
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
P2076	Variable geometry intake actuator position sensor/switch - circuit range/performance
P2077	Geometry change actuator position sensor/switch intake manifold - signal low
P2078	Geometry change actuator position sensor/switch intake manifold - high signal level
P2079	Intake manifold geometry change actuator position sensor/switch - circuit intermittent
P207A	Geometry change actuator position sensor/switch intake manifold bank 2 circuit malfunction
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

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

CODE	DECRYPTION
	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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
P210B	Throttle control module B, control motor - range/performance
P210C	Throttle control module B, control motor - circuit low
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
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
	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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
	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
	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
	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 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 range

CODE	DECRYPTION
	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

CODE	DECRYPTION
	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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
	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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
	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

CODE	DECRYPTION
	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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

P2736 Transmission fluid pressure control solenoid F - open circuit

P2737 Transmission fluid pressure control solenoid F - circuit range/performance

P2738 Transmission Fluid Pressure Control Solenoid F - Low signal

P2739 Transmission Fluid Pressure Control Solenoid F - High signal level

P273A Transmission friction element G, application time - range problems / functioning

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

P2744 Transmission fluid temperature sensor B - circuit intermittent

P2745 Transmission intermediate shaft speed sensor B - circuit malfunction

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

CODE	DECRYPTION
	P2762 Torque converter clutch pressure control solenoid - range/performance
	P2763 Torque converter clutch pressure control solenoid - circuit high
	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
	P2769 Torque converter clutch - signal low
	P2770 Torque converter clutch - signal high
P2771	Downshift switch, 4WD - electrical fault chains
	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

CODE	DECRYPTION
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

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

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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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 - lossconnections

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

CODE

DECRYPTION

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

CODE	DECRYPTION
	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

CODE	DECRYPTION
U045A	Invalid data received from control unit A for assistance with parking lot
U0461	Invalid data received from the emergency sound control unit signal
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
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

CODE	DECRYPTION
	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

CODE	DECRYPTION
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

CODE	DECRYPTION
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



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Japan