

## Hyundai Manufacturer-specific OBD2 Codes

<b>Codes</b>	<b>Definition</b>
P1100	Manifold Absolute Pressure(MAP) Sensor – Malfunction Manifold ABSolute Pressure (MAP) Sensor Circuit Malfunction
P1101	Manifold Absolute Pressure(MAP) Sensor - Abnormal
P1102	Manifold Absolute Pressure(MAP) Sensor - Low Input Manifold Absolute Pressure/Barometric Pressure Circuit Low Input
P1103	Manifold Absolute Pressure(MAP) Sensor - High Input Manifold Absolute Pressure/Barometric Pressure Circuit High Input
P1104	Air Flow Sensor
P1105	Air Flow Sensor - Abnormal
P1106	Air Flow Sensor - Low Input Manifold Absolute Pressure Sensor Circuit Intermittent high
P1107	Air Flow Sensor - High Input Manifold Absolute Pressure Sensor Circuit Intermittent low
P1108	Fuel Pump
P1109	Fuel Pump - Abnormal
P1110	Fuel Pump - Stuck On Throttle Actuator Control System Malfunction
P1111	Fuel Pump - Electrical Intake Air Temp Circuit High Intake Air Temperature Sensor Circuit Intermittent high
P1112	Intake Air Temperature Sensor Circuit Intermittent low Intake Air Temp Circuit Low
P1113	Manifold Diff. Sensor-Abnormal
P1114	Engine Coolant Temp Low Engine Coolant Temperature Sensor Circuit Intermittent low
P1115	Engine Coolant Temperature (ECT) Sensor Signal From ECU to TCU Engine Coolant Temp High Engine Coolant Temperature Sensor Circuit Intermittent high
P1116	Boost Pressure Sensor-Malfunction.
P1118	ETS Motor-Malfunction. Throttle Actuator Control System Motor Malfunction
P1119	Inlet Metering Valve Control
P1120	Electronic Governor-Malfunction.
P1121	APS PWM Output Circuit Malfunction
P1122	Over Boost Pressure-Malfunction.
P1123	Fuel System Rich-Idle System too Rich at Idle(Bank 1) Fuel Trim too Lean at Idle (←Additive) (Bank 1)
P1124	Fuel System Lean-Idle
P1125	Fuel Press Sensor1
P1126	Fuel Press Sensor2
P1127	Fuel System Rich-Part Load Fuel Trim too Rich at Higher Load(Bank 1) Fuel Trim too Lean at Higher Load (←Multiple) (Bank 1)

P1128	Fuel System Lean-Part Load Fuel Trim too Lean at Higher Load(←Multiple) (Bank 1)
P1129	2nd Lock Solenoid Malfunction
P1130	Start Solenoid Malfunction
P1131	Fuel Adjustment Resistor
P1132	Liquid Fuel Solenoid Malfunction
P1133	Vapor Fuel Solenoid Malfunction
P1134	Heated Oxygen Sensor (HO2S)-B1/S1 HO2S Circuit-Transition Switch Time Malfunction / Slope (Bank 1 / Sensor 1)
P1135	Injection Timing Servo-Malfunction
P1136	INJECTION ERR:DTV(LAMBDA)X
P1140	Rationality Check-Throttle Position Sensor (TPS), Mass Air Flow (MAF) Sensor
P1141	Slow Duty Solenoid Malfunction
P1144	Slow Cut Solenoid Malfunction
P1145	Main Duty Solenoid Malfunction
P1146	Idle CO Potentiometer
P1147	Accel Position Sensor(ETS) Circuit Accelerator Pedal Position Sensor (APS) Circuit - ETS
P1150	Barometric Pressure Sensor Malfunction
P1151	Accel Position Sensor(EMS) Circuit Accelerator Pedal Position Sensor (APS) Circuit Malfunction Accelerator Pedal Position Sensor (APS) Circuit - EMS
P1152	Accelerator Pedal Position Sensor (APS) Circuit-Low Input (EMS)
P1153	Accelerator Pedal Position Sensor (APS) Circuit-High Input (EMS)
P1154	Heated Oxygen Sensor (HO2S)-B2/S1 HO2S Signal-Transition Switch Time Malfunction / Slope (Bank 2 / Sensor 1)
P1155	Limp Home Valve-Malfunction
P1159	Variable Induction System Variable Intake Motor Rotation System- Malfunction
P1162	High Pressure Pump&Fuel Line
P1166	Heated Oxygen Sensor (HO2S)(B1) Adaptation Fuel Trim(Bank 1)
P1167	Heated Oxygen Sensor (HO2S)(B2) Adaptation Fuel Trim(Bank 2)
P1168	Heated Oxygen Sensor (HO2S) Heater Power-B1/S2 HO2S Heater Power (Bank 1 / Sensor 2)
P1169	Heated Oxygen Sensor (HO2S) Heater Power-B2/S2 HO2S Heater Power (Bank 2 / Sensor 2)
P1170	Atmospheric Pressure Sensor Malfunction
P1171	ETS Valve Stuck-Open Throttle Actuator Control System-Stuck Open
P1172	ETS-Improper Motor Current Throttle Actuator Control System Improper Motor Current
P1173	ETS-Target Following Malfunction Throttle Actuator Control System-Target Following Malfunction
P1174	ETS Valve Stuck-Close#1 Electric Throttle Valve Control System (ETS) Valve #1 Stuck – Close
P1175	ETS Valve Stuck-Close#2 Electric Throttle Valve Control System (ETS) Valve #2 Stuck – Close
P1176	ETS Motor Open Short #1 Electric Throttle Valve Control System (ETS) Motor #1 Open or Short

P1177	ETS Motor Open Short #2 Electric Throttle Valve Control System (ETS) Motor #2 Open or Short
P1178	ETS Motor Power-Open Electric Throttle Valve Control System (ETS) Motor Power Open
P1179	Throttle Actuator Control System Throttle Position F/B – Mismatch
P1180	Fuel Pressure Regulator - Malfunction HO2S 1 Heater Circuit-Malfunction
P1181	Fuel Pressure Monitoring - Malfunction
P1182	Fuel Pressure Regulator - Short Circuit HO2S 2 Heater Circuit-Malfunction
P1183	Fuel Pressure Regulator - Open Circuit
P1184	O2 Sensor Circuit No Activity Detected (Bank 1 / Sensor 2) Fuel Pressure Regulator - Power
P1185	Maximum Pressure Exceeded Fuel Pressure Monitoring - Excessive
P1186	Minimum Pressure at Engine Speed Too Low Fuel Pressure Monitoring - too Low
P1187	Fuel Pressure Monitoring - Regulator Valve Stuck
P1188	Fuel Pressure Monitoring – Leakage
P1189	Governer Deviation
P1190	Intake Throttle Actuator-Malfunction
P1191	ETS-Limp Home Valve On Throttle Actuator Control System Limp Home-Valve On
P1192	Limp Home-Target Follow Malfunction. ETS LimpHome-Target Following Malfunction
P1193	Limp Home-Low Rpm Throttle Actuator Control System Limp Home-Low RPM
P1194	Limp Home-TPS2 Position Malfunction Throttle Actuator Control System Limp Home-Throttle Position Sensor 2 Position Malfunction
P1195	Limp Home-Target Follow Delay Throttle Actuator Control System Limp Home-Target Following Malfunction Throttle Actuator Control System Limp Home-Target Following Delay
P1196	Limp Home-Close Stuck Throttle Actuator Control System Limp Home-Stuck
P1221	Feedback (Main Duty) Solenoid
P1229	LPG Relay Circuit High Fuel Pump Diagnosis Malfunction
P1230	Slow Duty Solenoid
P1231	Fuel Pump malfunction
P1235	Active Air Flap System Fail
P1236	Active Air Flap F/B Voltage Low
P1237	Active Air Flap F/B Voltage High
P1240	Second Lock Solenoid Injector Leak Detected
P1250	Pressure Regulator Solenoid Malfunction
P1252	Pressure Regulator Solenoid High
P1282	Humidity Sensor Open (High) - AUTO Defog
P1283	Direction Potentiometer Open (Low) - AUTO Defog
P1284	Direction Potentiometer Short (High) - Auto Defog
P1285	Direction Control Motor -AUTO Defog
P1290	Pressure Limit Valve (DVB3) Error

P1295	ETC System Power Management Limp Home Mode - Power Management
P1300	TDC Sensor Crankshaft Position-Camshaft Position Correlation
P1301	TDC Sensor - Abnormal
P1302	TDC Sensor - Low Input
P1303	TDC Sensor - High Input
P1304	Phase Sensor
P1305	Phase Sensor - Abnormal
P1306	Phase Sensor - Low Input
P1307	Phase Sensor - High Input Acceleration Sensor Range/Performance Accelerator Pedal Position Sensor (APS) Malfunction
P1308	Acceleration Sensor Circuit Low Input Acceleration Sensor - Low Input
P1309	Acceleration Sensor Circuit High Input Acceleration Sensor - High Input
P1310	IG.Coil.1 - Low Output
P1311	IG.Coil.1 - High Output
P1312	IG.Coil.2
P1313	IG.Coil.2 - Abnormal
P1314	IG.Coil.2 - Low Output
P1315	IG.Coil.2 - High Output
P1316	IG.Coil.3
P1317	IG.Coil.3 - Abnormal
P1318	IG.Coil.3 - Low Output
P1319	IG.Coil.3 - High Output
P1320	IG.Coil.4
P1321	IG.Coil.4 - Abnormal
P1322	IG.Coil.4 - Low Output
P1323	IG.Coil.4 - High Output
P1324	Glow Relay Malfunction
P1325	Glow Relay Abnormal
P1326	Glow Relay Stuck On
P1327	Glow Relay Electrical
P1330	Spark Timing Adjust Signal
P1331	#1 MF Signal Line Short
P1332	#2 MF Signal Line Short
P1333	#3 MF Signal Line Short
P1334	#4 MF Signal Line Short
P1335	#5 MF Signal Line Short
P1336	#6 MF Signal Line Short
P1337	#7 MF Signal Line Short
P1338	#8 MF Signal Line Short
P1340	IFS 2 Open
P1341	#1 ION Line Open
P1342	#2 Ion Line Open
P1343	#3 Ion Line Open

P1344	#4 Ion Line Open
P1345	#5 ION Line Open
P1346	#6 Ion Line Open
P1347	#7 Ion Line Open
P1348	#8 Ion Line Open
P1351	#1 MF Signal Line Open
P1352	#2 MF Signal Line Open
P1353	#3 MF Signal Line Open
P1354	#4 MF Signal Line Open
P1355	#5 MF Signal Line Open
P1356	#6 MF Signal Line Open
P1357	#7 MF Signal Line Open
P1358	#8 MF Signal Line Open
P1372	Segment Time Incorrect Segment Time Acquisition Incorrect
P1386	Kncok Sensor Circuit Malfunction
P1400	Manifold Diff. Pressure Sensor
P1401	DMTL Performance
P1402	DMTL Motor Circuit
P1403	DMTL Motor Circuit Malfunction DMTL Valve Circuit
P1404	DMTL Heater Circuit Malfunction
P1405	EGR Temperature Incorrect
P1406	Exhaust Gas Temperature not Plausible between Calculated and Simulated
P1415	2nd Air Injection Insufficient (B1)
P1416	Secondary Air Injection 2nd Air Injection Insufficient (Bank 1)
P1418	2nd Air Injection Insufficient (B2)
P1419	2nd Air Injection Valve
P1440	Evap.System-Vent Circuit Evaporative System-Vent Circuit
P1443	Evap.System-Tank Cap Missing Evaporative Emission Control System Leak Detected
P1457	Purge Solenoid Valve Low System Malfunction
P1458	A/C Compressor Input Signal Malfunction
P1485	EGR Solenoid Vacuum Valve Open Or Short
P1486	EGR Solenoid Valve Vent Open or Short
P1487	EGR Boost Sensor Solenoid Valve Open or Short
P1500	Air Conditioning(A/C) Switch
P1501	Battery Temperature Too High Diagnostic
P1502	Wheel Speed Sensor Circuit Vehicle Speed Sensor Signal Circuit Malfunction Battery Not Charging Diagnostic
P1503	Cruise Control Malfunction-Control Switch
P1504	Cruise Control Malfunction-Cancel
P1505	Idle Speed Control Actuator Signal Low of Coil #1
P1506	Idle Speed Control Actuator Signal High of Coil #1
P1507	Idle Speed Control Actuator Signal Low of Coil #2
P1508	Idle Speed Control Actuator Signal High of Coil #2

P1509	MPS – High
P1510	Idle Air Control Valve Opening Coil Signal High Input Idle Speed Control Actuator Circuit 1-High Idle Speed Control Actuator Coil1 Signal Incorrect LPG Switch Line Malfunction
P1511	ISC Circuit Open/Short Idle Speed Control Actuator Coil2 Signal Incorrect
P1512	Engine Coolant Temperature Sensor - Low
P1513	ISC Actuator (Open)-Open Idle Air Control Valve Opening Coil Signal Low Input
P1515	Oil Temperature Sensor - Abnormal Idle Speed Control Actuator Circuit 1-Low Idle Speed Control Actuator Coil #1 (Open) Command Signal Malfunction
P1516	Oil Temperature Sensor - Low Idle Speed Control Actuator Coil #2 (Close) Command Signal Malfunction
P1517	Oil Temperature Sensor - High
P1520	Generator FR Terminal-Malfunction. Alternator Charging Signal Malfunction
P1521	Power Steering Switch-Malfunction. Power Steering Pressure Sensor/Switch Circuit Range/ Performance Power Steering Switch Malfunction
P1522	Battery Sensor Supply Voltage 1-Low Input
P1523	ETC Throttle Position Sensor Position Reset Malfunction Sensor Supply Voltage 1-High Input Not Applicable-Used only as a service aid-not emissions related Throttle Actuator Control System - Throttle Valve Stuck
P1524	Sensor Supply Voltage 2-Low Input
P1525	Aps/Boost Pressure Sensor Power Sensor Supply Voltage 2-High Input
P1526	Sensor Supply Voltage 1-Malfunction
P1527	Sensor Supply Voltage 2-Malfunction
P1529	Transmission Control System (MIL Request) TCM Request For Malfunction Indicator Lamp (MIL) On Signal TCM MIL On Request Signal
P1530	Maximum Vehicle Speed Limiting-Malfunction
P1532	Electronic Throttle Control System Malfunction Throttle Valve Stuck
P1533	VICS Solenoid Valve 2 Circuit Malfunction
P1539	LPI Gas Injection IFB ECU-Malfunction
P1540	LPI Gas System CHECK IFB ECU (Mil off Error)
P1543	Brake Switch Signal Fault
P1545	A/C Compressor Switch Open/Short
P1550	Knock Sensor Evaluation IC Error
P1552	ISC Actuator (Close)-Short Idle Speed Control Actuator Circuit 2-High
P1553	ISC Actuator (Close)-Open Idle Speed Control Actuator Circuit 2-Low
P1555	Idle CO Potentiometer Open/Short Idle Co Potentiometer Open or Short
P1560	Knock Control Serial Port Interface check (Bank 1)

P1566	Analog Battery Sensor Circuit
P1567	Fuel Pressure Valve Current Low
P1568	Fuel Pressure Valve Current Hi
P1569	Fuel Pressure Control Valve Current Abnormal
P1572	Cruise Control System-Vehicle Speed lower than target speed
P1573	Cruise Control System-Vehicle Speed Too low
P1586	MT/AT Encoding Signal Error MT/AT Encoding Signal Malfunction
P1587	CAN Communication Error MT/AT Recognition Error
P1593	VICS Solenoid Valve 1 Circuit Malfunction
P1600	Serial Communication-Malfunction (With A/T)
P1601	ECU 'L' Line
P1602	Serial Communication Problem-TCM Serial Communication Problem With TCM CAN Communication-No Signal
P1603	ECM-TCS Control Module Communication Line ECU-TCU Communication Line Malfunction TCU Communication Line or TCU Error ECM-TCS Communication Line Malfunction
P1604	CAN-Bus-Off(TCU Fail or Circuit Fail) No ID From ECU Malfunction
P1605	Internal Control Module Read Only Memory(ROM) Error(IFB) Acceleration Sensor Malfunction
P1606	Vacuum Solenoid Valve Abnormal Chassis Acceleration Sensor Signal Malfunction
P1607	Serial Communication Problem with IFB ECU (Timeout)
P1608	Vacuum Solenoid Valve Electrical. ECM-ETS Communication Line-Malfunction (ETS- >EMS)
P1609	Immobilizer Communication.-Malfunction Immobilizer Communication-Malfunction
P1610	Non-Immobilizer-EMS Connected to an Immobilizer
P1611	Ventilation Solenoid Valve Stuck On ECM-TCM Malfunction Indicator Lamp (MIL) Request Line Malfunction Indicator Lamp (MIL) Request Circuit Low
P1612	Ventilation Solenoid Valve Electrical.
P1613	ECM Malfunction (Communication EMS←ETS) ECM-ETS Communication Line-Malfunction (EMS->ETS) ECU-Failure Malfunction Indicator Lamp (MIL) Request Circuit High
P1614	ETS ECM-Malfunction. ETS ECU-Malfunction (EEPROM R/W)
P1615	P/N Relay ETS Malfunction (Communication ETS-EMS)
P1616	Main Relay-Malfunction Main Relay Control Circuit Malfunction
P1617	Malfunction Indicator Lamp (MIL) Power Stage Malfunction
P1618	Engine torque control – limit reached/exceeded
P1619	Main Relay
P161B	ECM Torque Calculation Performance
P1620	A/C Cut Relay Malfunction A/C Compressor Relay-Short

P1621	Fuel Cut Valve-Malfunction. A/C Compressor Relay Circuit - Open or Short
P1622	A/C Control Circuit Fail A/C Compressor Relay Circuit Malfunction
P1623	Diagnostic Lamp-Malfunction Diagnostic Lamp Malfunction Cooling Fan Relay Circuit Malfunction
P1624	Cooling Fan Relay(Low) Circuit. Cooling Fan Relay (Low) Circuit-Malfunction Cooling Fan Relay(Low) Circuit Malfunction
P1625	Cooling Fan Relay(High) Circuit Cooling Fan Relay (High) Circuit Malfunction
P1626	Immobilizer Indicator Malfunction
P1627	A/C Condenser Fan
P1628	Vapor Lamp Malfunction
P1629	Condenser Fan Relay (High) Circuit-Malfunction
P1630	CAN-Bus-Off TCU Communication Line Malfunction
P1631	CAN-Time Out ECM ECU Communication Line Malfunction Lost Communication With ECM/PCM 'A' (C-CAN)
P1632	CAN Bus Off ECU-TCS Communication Line Malfunction
P1633	Battery Overcharge
P1634	Auxiliary Heater Relay Short or Open
P1635	Water Heater Relay-Malfunction
P1636	Voltage Regulator For Injector
P1638	ECM (Microcontroller) - Malfunction
P1639	ECM (Monitoring ADC) - Malfunction
P1640	Variable Intake Motor-1 Variable Intake Manifold Control Motor 1 Circuit-Malfunction (VIM 1)
P1641	Variable Intake Motor-2 Variable Intake Manifold Control Motor 2 Circuit-Malfunction (VIM 2)
P1642	Non-Immobilizer ECM Equipped Immobilizer-BCM Mismatch
P1645	Booster Voltage-Operating Injector
P1646	Booster Voltage-too High
P1647	Booster Voltage-too Low
P1650	Malfunction Indicator Lamp (MIL) Control Circuit Indication lamp circuit malfunction
P1652	Ignition Switch Malfunction
P1653	Error Check After Ignition Off-Malfunction
P1655	Unused Power Stage B
P1657	Unused Power Stage C
P1660	Cruise Control Switch - Malfunction
P1661	Cruise Control Indicator Lamp-Malfunction
P1665	Ignition power stage A – circuit malfunction
P1670	Invalid Injector IQA/C2I
P1671	Injector Classification-Write Error
P1672	Fan Relay Malfunction-Low Speed



P1673	Cooling Fan Circuit Malfunction
P1674	Cooling Fan Control 3 Circuit Malfunction A/C Condenser Fan Relay-Malfunction Immobilizer-Transponder status Error
P1675	Cooling Fan Control 1 Circuit Low Immobilizer-Transponder Programming Error Immobilizer-Transponder Program Error
P1676	Cooling Fan Control 1 Circuit High Immobilizer-Smartra Message Error
P1677	Cooling Fan Control 2 Circuit Low EMS -VIN Data Error Immobilizer-EMS VIN Data Error (EMS has different VIN)
P1678	Cooling Fan Control 2 Circuit High EMS No Request ( EMS data line open, no immo.) Immobilizer-EMS No Request ( EMS data line open, no immo.)
P1679	Cooling Fan Control 3 Circuit Low EMS Data Fail (Data frame, CS, Message error) Immobilizer-EMS Data Fail (Data frame, CS, Message error)
P1688	Immobilizer Lock
P1689	Immobilizer - Unregistered Transponder
P1690	Smartra No Response Immobilizer-Smartra No Response Immobilizer-Smartra Error
P1691	Immobilizer-Antena Error Immobilizer-Antenna Coil Error
P1692	Immobilizer Indicator Lamp Immobilizer Lamp Error
P1693	Transponder No Response Error_Invalid Response Immobilizer-Transponder Error Transponder-Untaught (Virgin) TCM Malfunction Indicator Lamp (MIL) Request Line Malfunction
P1694	Immobilizer-EMS Message Error
P1695	Immobilizer-EMS Memory Error
P1696	Immobilizer-Key Mismatched Immobilizer-Authentication Fail Authentication Fail
P1697	Immobilizer-Tool Message Error
P1698	Cooling Fan Relay Circuit-High Key ID not Valid Transponder-Invalid Immobilizer-Invalid TP (TP has different PIN)
P1699	Immobilizer-Twice Overtrial
P169A	Immobilizer-SMARTRA Authentication Fail Smartra Authentication fail
P1700	Gear Shift Malfunction
P1701	Throttle Position Sensor(TPS)
P1702	Throttle Position Sensor(TPS)-Abnormal Throttle Position Sensor (TPS)-Malfunction Adjustment
P1703	Throttle Position Sensor(TPS)-Open/Short(GND)
P1704	Throttle Position Sensor(TPS)-High Input Throttle Position Sensor (TPS)-Open or Short Throttle Position Sensor (TPS)-Short

P1706	Inhibitor Switch
P1707	Brake Switch Cruise Control System Malfunction-Brake Switch
P1708	Accel Switch
P1709	K/D Servo Switch-Open/Short Kick Down Servo Switch-Open or Short to Ground
P1710	Oil Temperature Sensor
P1711	Oil Temperature Sensor Abnormal
P1712	Oil Temperature Sensor Low Input
P1713	Oil Temperature Sensor High Input
P1714	Closed Throttle Position Switch
P1715	Air Conditioning(A/C)Switch A/C Switch Circuit Malfunction
P1716	Steering Wheel Angle Sensor-Input Signal Malfunction
P1717	Steering Wheel Angle Sensor 1-Input Signal
P1718	Steering Wheel Angle Sensor 2-Input Signal
P1719	Steering Wheel Angle Sensor N-Input Signal
P1721	Control Relay
P1722	Control Relay – Abnormal
P1723	Control Relay - Stuck On TCM Power Relay Control Circuit/Open
P1724	Control Relay - Electrical
P1725	TOD Control Module Error
P1726	Throttle Position Sensor (TPS) Input-Loss of Signal Throttle Position Sensor (APS) Input-Loss of Signal
P1727	Throttle Position Sensor (TPS) Input-Out of Range
P1728	EMC-Open or Short to Battery
P1729	EMC-Short to Ground
P1730	Front Speed Sensor-Low Input
P1731	Front Speed Sensor-High Input
P1732	Rear Speed Sensor-Low Input
P1733	Rear Speed Sensor-High Input
P1734	Vehicle Speed Sensor Reference Voltage Low
P1735	Vehicle Speed Sensor Reference Voltage High
P1736	Shift Motor-Open or Short to Battery Motor Supply Voltage - High voltage
P1737	Shift Motor-Open or Short to Ground ECV Stick Motor Supply Voltage - Low Voltage
P1738	Shift System Timeout
P1739	General Position Encoder Fault
P1740	Position 1-Short to Ground
P1741	Position 2-Short to Ground
P1742	Position 3-Short to Ground TCM Power Relay Open or Short (Ground)
P1743	Position 4-Short to Ground
P1744	Abnormal Vibration Occurrence
P1745	TCM 'K' Line 4WD ECU Invalid Part Number

P1746	TCM 'L' Line
P1747	TCM-ECM Communication Line #1 Malfunction.
P1748	TCM-ECM Communication Line #2 Malfunction.
P1749	Serial Communication Link-Open or Short
P1750	TPS Communication Unification Malfunction. Throttle Position Sensor (TPS) Communication Malfunction Wheel Speed Sensor Signal (Left Front)
P1751	Auto Control Relay-Malfunction Wheel Speed Sensor Signal (Right Front)
P1752	Lamp 'P' Wheel Speed Sensor Signal (Left Rear)
P1753	Lamp 'R' Wheel Speed Sensor Signal (Right Rear)
P1754	Lamp 'N'
P1755	Lamp 'D' EMC Over Current
P1756	Lamp '3' EMC Internal Error
P1757	Lamp '2' EMC PWM Out of Range
P1758	Lamp 'L'
P1759	Control Module-Check Sum
P1760	Control Module-Programming Neutral Condition At R Range
P1761	Control Module-KAM
P1762	Control Module-RAM
P1763	Control Module-ROM
P1764	CAN Controller-Malfunction. CAN Controller-Malfunction ECU-ITM CAN Communication Line CAN MI-Communication or Circuit Malfunction
P1765	Transmission Fluid Pressure Sensor Signal Low Torque Reduction Request Torque Reduction Request Malfunction TCS-ITM CAN Communication Line
P1766	Transmission Fluid Pressure Sensor Signal High Torque Reduction Execution
P1767	CAN ABS Loss of Signal ABS Active Signal (CAN Error)
P1769	Tire Size Fault
P1770	Secondary Speed Sensor-System Error EMC thermal Protection - Lock Mode
P1771	EMC Thermal Protection - Shutdown
P1772	
P1773	Gearbox Input Speed Sensor
P1774	Speed Command PWM Line
P1775	TCM-Malfunction OPU Status Line
P1776	Power Control Module-Malfunction. Electric Oil Pump Hall IC Sensor failure
P1777	PCM Output-Malfunction. OPU Power Control Circuit Failure

P1778	Electro Valve Output-Malfunction. Engine Clutch VFS Fail
P1779	Starter Inhibit Relay-Malfunction. Supply Voltage Missing
P1780	Battery Voltage High Torque Reduction Request Signal (TCU-ECU) Engine Size Failure Control Unit Supply High Voltage Torque Control Signal Failure
P1781	Battery Voltage Low Control Unit Supply Low Voltage
P1782	Ignition Voltage Fault Invalid Transmission Gear
P1783	ABS-CVT Communication Line Short
P1784	EOP 3-Phase Wiring line open
P1785	Primary Speed Sensor-Open or Short
P1786	Inhibitor Switch Circuit High
P1787	Hydraulic Ratio Checking TGS Lever Position Sensor Error
P1791	Throttle Position Sensor (TPS) Input Circuit Malfunction
P1795	L4 Switch Signal Circuit
P17C0	DCT None-EOL
P17C1	Clutch1 Actuator Error
P17C2	Clutch2 Actuator Error
P1801	Immobilizer Transponder
P1802	Immobilizer-Antenna Error
P1803	Immobilizer ECM Signal Immobilizer-ECU Signal Error
P1805	Immobilizer-EEPROM Error
P1807	Clutch Position Sensor "B" Circuit Low
P1808	Clutch Position Sensor "B" Circuit High
P1811	ESP(TCS) Torque increase Over
P1815	ESP(TCS) Auto Recognition Error
P1820	Pump for 4WD Motor High Overcurrent Detected
P1821	Pump for 4WD Motor Wire Short to Battery
P1822	Pump for 4WD Motor Wire Open Load
P1823	Pump for 4WD Motor Wire Short to GND
P1824	Pump for 4WD Slow Thermal Overload
P1825	Pressure Sensor for 4WD Supply Short to Battery
P1826	Pressure Sensor for 4WD Supply Short to Ground
P1827	Pressure Sensor for 4WD Signal Wire Short to Battery
P1828	Pressure Sensor for 4WD Signal Wire Short to Ground
P1829	Clutch Torque Tolerance Upper Limit
P1830	Clutch Torque Tolerance Lower Limit
P1831	Clutch Thermal Overstress Warning
P1832	Clutch Thermal Overstress Shutdown
P1833	Actuator Thermal Overstress Warning
P1834	Actuator Thermal Overstress Shutdown
P1835	Pressure Sensor for 4WD Supply Offset Failure

P1836	Bleed Pressure Line Test Error
P1837	Vehicle Variant Can Not Be Detected
P1900	Clutch Actuator “B” Circuit/Open
P1925	Reverse Lamp Relay
P1929	Shift Lock Solenoid
P1986	EOP Relay Error
P1A6F	Airbag Deployment Signal Circuit High
P1A71	Airbag Deployment Signal Circuit Low
P1A77	Check Generator Belt
P1A86	Inappropriate and low SOC
P1A88	DC/DC Converter Cooling System Fault
P1A89	DC/DC Converter Current Sensor Fault
P1B03	Auxiliary Battery Temperature Sensor Circuit
P1B1D	OPI Fault
P1B25	High Voltage Battery Path Fault
P1B62	High Voltage Battery Current Sensor Circuit
P1B67	High Voltage Battery Current Sensor Circuit Fault
P1B70	High Voltage Battery Voltage Too Low
P1B71	High Voltage Battery Voltage Too High
P1B74	High Voltage Battery Voltage Sensor Circuit
P1B75	High Voltage Battery Current Value Error
P1B76	High Voltage Battery Relay Fault
P1B77	High Voltage Battery Precharging Fault
P1B78	High Voltage Battery Temperature Sensor Circuit Level 1
P1B79	High Voltage Battery Temperature Sensor Circuit Level 2
P1B84	High Voltage Battery Cell Voltage Deviation Too High
P1B95	High Voltage Battery Pack Deterioration
P1B96	High Voltage Battery Voltage Sensor Circuit Fault
P1B97	High Voltage Battery Temperature Sensor Circuit Fault
P1BA0	High Voltage Battery & MCU Cooling Fan Relay Circuit
P1BA1	High Voltage Battery FAN Fault
P1C28	OPI Current High
P1C2B	OPI Hall Sensor Error
P1C64	Drive Motor “A” Phase Cable Circuit Open
P1C6A	Generator Phase Cable Circuit Open
P1C76	Generator Position Sensor Not Learned
U1000	Head Unit ECM Error TV Unit Error
U1001	HW Watchdog Executed Microphone 1 not connected High Speed CAN Communication Bus (H-CAN)
U1002	Microphone 1 shortcut Lost Communication with ECM (H-CAN)
U1003	Temperature Sensor Signal Error in Head Unit Lost Communication With TCM (H-CAN)
U1004	Temperature Sensor Signal Error in Tunner and Amplifier Lost Communication with Hybrid Powertrain Control Module (H-CAN)
U1005	Lost Communication with Drive Motor Control Module (H-CAN)

U1006	Lost Communication with Battery Energy Control Module “A” (H-CAN)
U1007	CAN Timeout OPU on C-CAN
U1010	Low Voltage Detected
U1011	High Voltage Detected
U1045	Sticking Key on Central Control Panel
U1065	Sticking Key on Rear Armrest Controller
U1100	High Speed CAN 2 Lost communication (EMS-DCT)
U1103	Lost Communication With TGS Lever
U1111	Battery Sensor fault detected by ECU BS_signal frame(Data) Error Lin Message Timeout with EBS
U1112	LIN Communication Error
U1116	Lost Communication With Motor Electronics Coolant Pump (C-CAN)
U1117	High Speed CAN2 Communication (EMS-DCT)
U1121	Lost Communication With Electric Stability Program Module
U1138	Fan Operation Error(Fan is running although should be off)
U1139	Fan Operation Error - no plug put or line open (Fan is not running although it should be on)
U1401	MOST Critical Unlock Detected
U1440	Ring Break Between Head Unit and TV Unit
U1441	Ring Break Before Position 1
U1442	Ring Break Between TV Unit and Amplifier Unit
U1443	Mozen: Ring Break Between Amplifier Unit and Mozen Unit, Non Mozen: Amplifier Unit and Head Unit
U1444	Mozen : Ring Break Between Mozen Unit and Head Unit, Non Mozen : Ignore
U144F	Ring Break Without Position Detection
U1500	Wakeup Line Short Circuit To Ground
U1750	HDD Invalid Media
U1900	GPS Antenna Line Break
U1920	DVD Drive Error
U1940	Front Display SDC Communication Error AmFm Antenna circuit Low (shortcut to GND )
U1941	AmFm Antenna circuit Open (not connected )
U1942	Rear Display SDC Communication Error Fm2 Antenna circuit Low
U1943	Fm2 Antenna circuit Open
U1944	XM Antenna circuit Low (UTA US only)
U1945	XM Antenna circuit Open (UTA US only)
U1965	Central Control Panel Serial Communication Error
U1970	Multimedia CAN Bus Off Error
U1971	Multimedia CAN Single Line Error
U1972	Multimedia CAN Limp Home Status
U1980	Timeout Multimedia CAN Message (Air Conditioner, Cluster, Audio)
U1981	Timeout Multimedia CAN Message (Vehicle Speed)
U1982	Timeout Multimedia CAN Message (Body CAN Signal - Camera, ECS, Trip Computer, Alternator, Auto Light)
U1983	Timeout Multimedia CAN Message (Trip Computer)
U1984	Timeout Multimedia CAN Message (Inhibitor Signal)
U1985	Timeout Multimedia CAN response for HU_6 0x86 CarSettings request