

# List of Diagnostic Trouble Code (DTC)

ENGINE (DIAGNOSTICS)

## 17.List of Diagnostic Trouble Code (DTC)

### A: LIST

| DTC   | Item  | Index  |
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| P0026 | Intake Valve Control Solenoid Circuit Range/Performance (Bank 1)  | <Ref. to EN(H4SO U5)(diag)-79, DTC P0026 INTAKE VALVE CONTROL SOLENOID CIRCUIT RANGE/PERFORMANCE (BANK 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P0028 | Intake Valve Control Solenoid Circuit Range/Performance (Bank 2)  | <Ref. to EN(H4SO U5)(diag)-81, DTC P0028 INTAKE VALVE CONTROL SOLENOID CIRCUIT RANGE/PERFORMANCE (BANK 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P0030 | HO2S Heater Control Circuit (Bank 1 Sensor 1)                     | <Ref. to EN(H4SO U5)(diag)-83, DTC P0030 HO2S HEATER CONTROL CIRCUIT (BANK 1 SENSOR 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                      |
| P0031 | HO2S Heater Control Circuit Low (Bank 1 Sensor 1)                 | <Ref. to EN(H4SO U5)(diag)-85, DTC P0031 HO2S HEATER CONTROL CIRCUIT LOW (BANK 1 SENSOR 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                  |
| P0032 | HO2S Heater Control Circuit High (Bank 1 Sensor 1)                | <Ref. to EN(H4SO U5)(diag)-87, DTC P0032 HO2S HEATER CONTROL CIRCUIT HIGH (BANK 1 SENSOR 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                 |
| P0037 | HO2S Heater Control Circuit Low (Bank 1 Sensor 2)                 | <Ref. to EN(H4SO U5)(diag)-89, DTC P0037 HO2S HEATER CONTROL CIRCUIT LOW (BANK 1 SENSOR 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                  |
| P0038 | HO2S Heater Control Circuit High (Bank 1 Sensor 2)                | <Ref. to EN(H4SO U5)(diag)-92, DTC P0038 HO2S HEATER CONTROL CIRCUIT HIGH (BANK 1 SENSOR 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                 |
| P0068 | MAP/MAF - Throttle Position Correlation                           | <Ref. to EN(H4SO U5)(diag)-94, DTC P0068 MAP/MAF - THROTTLE POSITION CORRELATION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                            |
| P0076 | Intake Valve Control Solenoid Circuit Low (Bank 1)                | <Ref. to EN(H4SO U5)(diag)-96, DTC P0076 INTAKE VALVE CONTROL SOLENOID CIRCUIT LOW (BANK 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                 |
| P0077 | Intake Valve Control Solenoid Circuit High (Bank 1)               | <Ref. to EN(H4SO U5)(diag)-98, DTC P0077 INTAKE VALVE CONTROL SOLENOID CIRCUIT HIGH (BANK 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                |
| P0082 | Intake Valve Control Solenoid Circuit Low (Bank 2)                | <Ref. to EN(H4SO U5)(diag)-100, DTC P0082 INTAKE VALVE CONTROL SOLENOID CIRCUIT LOW (BANK 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                |
| P0083 | Intake Valve Control Solenoid Circuit High (Bank 2)               | <Ref. to EN(H4SO U5)(diag)-102, DTC P0083 INTAKE VALVE CONTROL SOLENOID CIRCUIT HIGH (BANK 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>               |
| P0101 | Mass or Volume Air Flow Circuit Range/Performance                 | <Ref. to EN(H4SO U5)(diag)-104, DTC P0101 MASS OR VOLUME AIR FLOW CIRCUIT RANGE/PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                 |
| P0102 | Mass or Volume Air Flow Circuit Low Input                         | <Ref. to EN(H4SO U5)(diag)-106, DTC P0102 MASS OR VOLUME AIR FLOW CIRCUIT LOW INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                         |
| P0103 | Mass or Volume Air Flow Circuit High Input                        | <Ref. to EN(H4SO U5)(diag)-109, DTC P0103 MASS OR VOLUME AIR FLOW CIRCUIT HIGH INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                        |
| P0107 | Manifold Absolute Pressure/Barometric Pressure Circuit Low Input  | <Ref. to EN(H4SO U5)(diag)-111, DTC P0107 MANIFOLD ABSOLUTE PRESSURE/BAROMETRIC PRESSURE CIRCUIT LOW INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0108 | Manifold Absolute Pressure/Barometric Pressure Circuit High Input | <Ref. to EN(H4SO U5)(diag)-114, DTC P0108 MANIFOLD ABSOLUTE PRESSURE/BAROMETRIC PRESSURE CIRCUIT HIGH INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> |
| P0111 | Intake Air Temperature Sensor 1 Circuit Range/Performance         | <Ref. to EN(H4SO U5)(diag)-117, DTC P0111 INTAKE AIR TEMPERATURE SENSOR 1 CIRCUIT RANGE/PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>         |

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| P0112 | Intake Air Temperature Sensor 1 Circuit Low   | <Ref. to EN(H4SO U5)(diag)-119, DTC P0112 INTAKE AIR TEMPERATURE SENSOR 1 CIRCUIT LOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P0113 | Intake Air Temperature Sensor 1 Circuit High  | <Ref. to EN(H4SO U5)(diag)-121, DTC P0113 INTAKE AIR TEMPERATURE SENSOR 1 CIRCUIT HIGH, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0117 | Engine Coolant Temperature Circuit Low  | <Ref. to EN(H4SO U5)(diag)-124, DTC P0117 ENGINE COOLANT TEMPERATURE CIRCUIT LOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0118 | Engine Coolant Temperature Circuit High   | <Ref. to EN(H4SO U5)(diag)-126, DTC P0118 ENGINE COOLANT TEMPERATURE CIRCUIT HIGH, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P0122 | Throttle/Pedal Position Sensor/Switch "A" Circuit Low                                   | <Ref. to EN(H4SO U5)(diag)-129, DTC P0122 THROTTLE/PEDAL POSITION SENSOR/SWITCH "A" CIRCUIT LOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                   |
| P0123 | Throttle/Pedal Position Sensor/Switch "A" Circuit High                                  | <Ref. to EN(H4SO U5)(diag)-131, DTC P0123 THROTTLE/PEDAL POSITION SENSOR/SWITCH "A" CIRCUIT HIGH, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                  |
| P0125 | Insufficient Coolant Temperature for Closed Loop Fuel Control                           | <Ref. to EN(H4SO U5)(diag)-133, DTC P0125 INSUFFICIENT COOLANT TEMPERATURE FOR CLOSED LOOP FUEL CONTROL, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                           |
| P0126 | Insufficient Engine Coolant Temperature for Stable Operation                            | <Ref. to EN(H4SO U5)(diag)-135, DTC P0126 INSUFFICIENT ENGINE COOLANT TEMPERATURE FOR STABLE OPERATION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                            |
| P0128 | Coolant Thermostat (Engine Coolant Temperature Below Thermostat Regulating Temperature) | <Ref. to EN(H4SO U5)(diag)-137, DTC P0128 COOLANT THERMOSTAT (ENGINE COOLANT TEMPERATURE BELOW THERMOSTAT REGULATING TEMPERATURE), Diagnostic Procedure with Diagnostic Trouble Code (DTC).> |
| P0131 | O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)   | <Ref. to EN(H4SO U5)(diag)-138, DTC P0131 O2 SENSOR CIRCUIT LOW VOLTAGE (BANK 1 SENSOR 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P0132 | O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)  | <Ref. to EN(H4SO U5)(diag)-140, DTC P0132 O2 SENSOR CIRCUIT HIGH VOLTAGE (BANK 1 SENSOR 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0133 | O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)                                       | <Ref. to EN(H4SO U5)(diag)-142, DTC P0133 O2 SENSOR CIRCUIT SLOW RESPONSE (BANK 1 SENSOR 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                       |
| P0134 | O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 1)                                | <Ref. to EN(H4SO U5)(diag)-144, DTC P0134 O2 SENSOR CIRCUIT NO ACTIVITY DETECTED (BANK 1 SENSOR 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                |
| P0137 | O2 Sensor Circuit Low Voltage (Bank 1 Sensor 2)   | <Ref. to EN(H4SO U5)(diag)-146, DTC P0137 O2 SENSOR CIRCUIT LOW VOLTAGE (BANK 1 SENSOR 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P0138 | O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)  | <Ref. to EN(H4SO U5)(diag)-149, DTC P0138 O2 SENSOR CIRCUIT HIGH VOLTAGE (BANK 1 SENSOR 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0139 | O2 Sensor Circuit Slow Response (Bank 1 Sensor 2)                                       | <Ref. to EN(H4SO U5)(diag)-152, DTC P0139 O2 SENSOR CIRCUIT SLOW RESPONSE (BANK 1 SENSOR 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                       |
| P0140 | O2 Sensor Circuit No Activity Detected (Bank1 Sensor2)                                  | <Ref. to EN(H4SO U5)(diag)-154, DTC P0140 O2 SENSOR CIRCUIT NO ACTIVITY DETECTED (BANK1 SENSOR2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                  |
| P0171 | System Too Lean (Bank 1)  | <Ref. to EN(H4SO U5)(diag)-156, DTC P0171 SYSTEM TOO LEAN (BANK 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0172 | System Too Rich (Bank 1)  | <Ref. to EN(H4SO U5)(diag)-157, DTC P0172 SYSTEM TOO RICH (BANK 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0181 | Fuel Temperature Sensor "A" Circuit Range/Performance                                   | <Ref. to EN(H4SO U5)(diag)-159, DTC P0181 FUEL TEMPERATURE SENSOR "A" CIRCUIT RANGE/PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                   |

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| P0182 | Fuel Temperature Sensor "A" Circuit Low Input                                    | <Ref. to EN(H4SO U5)(diag)-161, DTC P0182 FUEL TEMPERATURE SENSOR "A" CIRCUIT LOW INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                    |
| P0183 | Fuel Temperature Sensor "A" Circuit High Input                                   | <Ref. to EN(H4SO U5)(diag)-163, DTC P0183 FUEL TEMPERATURE SENSOR "A" CIRCUIT HIGH INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                   |
| P0196 | Engine Oil Temperature Sensor Circuit Range/Performance                          | <Ref. to EN(H4SO U5)(diag)-166, DTC P0196 ENGINE OIL TEMPERATURE SENSOR CIRCUIT RANGE/PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                          |
| P0197 | Engine Oil Temperature Sensor Low  | <Ref. to EN(H4SO U5)(diag)-168, DTC P0197 ENGINE OIL TEMPERATURE SENSOR LOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0198 | Engine Oil Temperature Sensor High   | <Ref. to EN(H4SO U5)(diag)-170, DTC P0198 ENGINE OIL TEMPERATURE SENSOR HIGH, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P0222 | Throttle/Pedal Position Sensor/Switch "B" Circuit Low                            | <Ref. to EN(H4SO U5)(diag)-172, DTC P0222 THROTTLE/PEDAL POSITION SENSOR/SWITCH "B" CIRCUIT LOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                            |
| P0223 | Throttle/Pedal Position Sensor/Switch "B" Circuit High                           | <Ref. to EN(H4SO U5)(diag)-174, DTC P0223 THROTTLE/PEDAL POSITION SENSOR/SWITCH "B" CIRCUIT HIGH, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                           |
| P0301 | Cylinder 1 Misfire Detected  | <Ref. to EN(H4SO U5)(diag)-176, DTC P0301 CYLINDER 1 MISFIRE DETECTED, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0302 | Cylinder 2 Misfire Detected  | <Ref. to EN(H4SO U5)(diag)-176, DTC P0302 CYLINDER 2 MISFIRE DETECTED, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0303 | Cylinder 3 Misfire Detected  | <Ref. to EN(H4SO U5)(diag)-176, DTC P0303 CYLINDER 3 MISFIRE DETECTED, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0304 | Cylinder 4 Misfire Detected  | <Ref. to EN(H4SO U5)(diag)-177, DTC P0304 CYLINDER 4 MISFIRE DETECTED, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0327 | Knock Sensor 1 Circuit Low (Bank 1 or Single Sensor)                             | <Ref. to EN(H4SO U5)(diag)-183, DTC P0327 KNOCK SENSOR 1 CIRCUIT LOW (BANK 1 OR SINGLE SENSOR), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                             |
| P0328 | Knock Sensor 1 Circuit High (Bank 1 or Single Sensor)                            | <Ref. to EN(H4SO U5)(diag)-185, DTC P0328 KNOCK SENSOR 1 CIRCUIT HIGH (BANK 1 OR SINGLE SENSOR), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                            |
| P0335 | Crankshaft Position Sensor "A" Circuit   | <Ref. to EN(H4SO U5)(diag)-187, DTC P0335 CRANKSHAFT POSITION SENSOR "A" CIRCUIT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P0336 | Crankshaft Position Sensor "A" Circuit Range/Performance                         | <Ref. to EN(H4SO U5)(diag)-189, DTC P0336 CRANKSHAFT POSITION SENSOR "A" CIRCUIT RANGE/PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                         |
| P0340 | Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)                   | <Ref. to EN(H4SO U5)(diag)-191, DTC P0340 CAMSHAFT POSITION SENSOR "A" CIRCUIT (BANK 1 OR SINGLE SENSOR), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                   |
| P0341 | Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sensor) | <Ref. to EN(H4SO U5)(diag)-193, DTC P0341 CAMSHAFT POSITION SENSOR "A" CIRCUIT RANGE/PERFORMANCE (BANK 1 OR SINGLE SENSOR), Diagnostic Procedure with Diagnostic Trouble Code (DTC).> |
| P0400 | Exhaust Gas Recirculation Flow   | <Ref. to EN(H4SO U5)(diag)-196, DTC P0400 EXHAUST GAS RECIRCULATION FLOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P0420 | Catalyst System Efficiency Below Threshold (Bank 1)                              | <Ref. to EN(H4SO U5)(diag)-199, DTC P0420 CATALYST SYSTEM EFFICIENCY BELOW THRESHOLD (BANK 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                              |
| P0442 | Evaporative Emission Control System Leak Detected (Small Leak)                   | <Ref. to EN(H4SO U5)(diag)-203, DTC P0442 EVAPORATIVE EMISSION CONTROL SYSTEM LEAK DETECTED (SMALL LEAK), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                   |
| P0447 | Evaporative Emission Control System Vent Control Circuit Open                    | <Ref. to EN(H4SO U5)(diag)-206, DTC P0447 EVAPORATIVE EMISSION CONTROL SYSTEM VENT CONTROL CIRCUIT OPEN, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                    |

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| P0448 | Evaporative Emission Control System Vent Control Circuit Shorted       | <Ref. to EN(H4SO U5)(diag)-209, DTC P0448 EVAPORATIVE EMISSION CONTROL SYSTEM VENT CONTROL CIRCUIT SHORTED, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>       |
| P0451 | Evaporative Emission Control System Pressure Sensor                    | <Ref. to EN(H4SO U5)(diag)-211, DTC P0451 EVAPORATIVE EMISSION CONTROL SYSTEM PRESSURE SENSOR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                    |
| P0452 | Evaporative Emission Control System Pressure Sensor Low Input          | <Ref. to EN(H4SO U5)(diag)-213, DTC P0452 EVAPORATIVE EMISSION CONTROL SYSTEM PRESSURE SENSOR LOW INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>          |
| P0453 | Evaporative Emission Control System Pressure Sensor High Input         | <Ref. to EN(H4SO U5)(diag)-216, DTC P0453 EVAPORATIVE EMISSION CONTROL SYSTEM PRESSURE SENSOR HIGH INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>         |
| P0456 | Evaporative Emission Control System Leak Detected (Very Small Leak)    | <Ref. to EN(H4SO U5)(diag)-219, DTC P0456 EVAPORATIVE EMISSION CONTROL SYSTEM LEAK DETECTED (VERY SMALL LEAK), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>    |
| P0457 | Evaporative Emission Control System Leak Detected (Fuel Cap Loose/Off) | <Ref. to EN(H4SO U5)(diag)-222, DTC P0457 EVAPORATIVE EMISSION CONTROL SYSTEM LEAK DETECTED (FUEL CAP LOOSE/OFF), Diagnostic Procedure with Diagnostic Trouble Code (DTC).> |
| P0458 | Evaporative Emission System Purge Control Valve Circuit Low            | <Ref. to EN(H4SO U5)(diag)-225, DTC P0458 EVAPORATIVE EMISSION SYSTEM PURGE CONTROL VALVE CIRCUIT LOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>            |
| P0459 | Evaporative Emission System Purge Control Valve Circuit High           | <Ref. to EN(H4SO U5)(diag)-227, DTC P0459 EVAPORATIVE EMISSION SYSTEM PURGE CONTROL VALVE CIRCUIT HIGH, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>           |
| P0461 | Fuel Level Sensor "A" Circuit Range/Performance                        | <Ref. to EN(H4SO U5)(diag)-229, DTC P0461 FUEL LEVEL SENSOR "A" CIRCUIT RANGE/PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                        |
| P0462 | Fuel Level Sensor "A" Circuit Low                                      | <Ref. to EN(H4SO U5)(diag)-229, DTC P0462 FUEL LEVEL SENSOR "A" CIRCUIT LOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                      |
| P0463 | Fuel Level Sensor "A" Circuit High                                     | <Ref. to EN(H4SO U5)(diag)-229, DTC P0463 FUEL LEVEL SENSOR "A" CIRCUIT HIGH, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                     |
| P0464 | Fuel Level Sensor Circuit Intermittent                                 | <Ref. to EN(H4SO U5)(diag)-229, DTC P0464 FUEL LEVEL SENSOR CIRCUIT INTERMITTENT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                 |
| P0483 | Fan Rationality Check  | <Ref. to EN(H4SO U5)(diag)-230, DTC P0483 FAN RATIONALITY CHECK, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0500 | Vehicle Speed Sensor "A"   | <Ref. to EN(H4SO U5)(diag)-230, DTC P0500 VEHICLE SPEED SENSOR "A", Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P0506 | Idle Air Control System RPM Lower Than Expected                        | <Ref. to EN(H4SO U5)(diag)-231, DTC P0506 IDLE AIR CONTROL SYSTEM RPM LOWER THAN EXPECTED, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                        |
| P0507 | Idle Air Control System RPM Higher Than Expected                       | <Ref. to EN(H4SO U5)(diag)-233, DTC P0507 IDLE AIR CONTROL SYSTEM RPM HIGHER THAN EXPECTED, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                       |
| P0512 | Starter Request Circuit  | <Ref. to EN(H4SO U5)(diag)-235, DTC P0512 STARTER REQUEST CIRCUIT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0519 | Idle Air Control System Performance                                    | <Ref. to EN(H4SO U5)(diag)-237, DTC P0519 IDLE AIR CONTROL SYSTEM PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                    |
| P0600 | Serial Communication Link  | <Ref. to EN(H4SO U5)(diag)-238, DTC P0600 SERIAL COMMUNICATION LINK, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0602 | Control Module Programming Error                                       | <Ref. to EN(H4SO U5)(diag)-239, DTC P0602 CONTROL MODULE PROGRAMMING ERROR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                       |
| P0604 | Internal Control Module Random Access Memory (RAM) Error               | <Ref. to EN(H4SO U5)(diag)-249, DTC P0604 INTERNAL CONTROL MODULE RANDOM ACCESS MEMORY (RAM) ERROR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>               |
| P0605 | Internal Control Module Read Only Memory (ROM) Error                   | <Ref. to EN(H4SO U5)(diag)-249, DTC P0605 INTERNAL CONTROL MODULE READ ONLY MEMORY (ROM) ERROR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                   |

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| P0607 | Control Module Performance                                    | <Ref. to EN(H4SO U5)(diag)-250, DTC P0607 CONTROL MODULE PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P0638 | Throttle Actuator Control Range/Performance (Bank 1)          | <Ref. to EN(H4SO U5)(diag)-252, DTC P0638 THROTTLE ACTUATOR CONTROL RANGE/PERFORMANCE (BANK 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P0691 | Fan 1 Control Circuit Low                                     | <Ref. to EN(H4SO U5)(diag)-252, DTC P0691 FAN 1 CONTROL CIRCUIT LOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0692 | Fan 1 Control Circuit High                                    | <Ref. to EN(H4SO U5)(diag)-252, DTC P0692 FAN 1 CONTROL CIRCUIT HIGH, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P0700 | Transmission Control System (MIL Request)                     | <Ref. to EN(H4SO U5)(diag)-252, DTC P0700 TRANSMISSION CONTROL SYSTEM (MIL REQUEST), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P0851 | Park/Neutral Switch Input Circuit Low                         | <Ref. to EN(H4SO U5)(diag)-253, DTC P0851 PARK/NEUTRAL SWITCH INPUT CIRCUIT LOW (AT MODEL), Diagnostic Procedure with Diagnostic Trouble Code (DTC).> or <Ref. to EN(H4SO U5)(diag)-255, DTC P0851 NEUTRAL SWITCH INPUT CIRCUIT LOW (MT MODEL), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P0852 | Park/Neutral Switch Input Circuit High                        | <Ref. to EN(H4SO U5)(diag)-257, DTC P0852 PARK/NEUTRAL SWITCH INPUT CIRCUIT HIGH (AT MODEL), Diagnostic Procedure with Diagnostic Trouble Code (DTC).> or <Ref. to EN(H4SO U5)(diag)-260, DTC P0852 NEUTRAL SWITCH INPUT CIRCUIT HIGH (MT MODEL), Diagnostic Procedure with Diagnostic Trouble Code (DTC).> |
| P1152 | O2 Sensor Circuit Range/Performance (Low) (Bank1 Sensor1)     | <Ref. to EN(H4SO U5)(diag)-262, DTC P1152 O2 SENSOR CIRCUIT RANGE/PERFORMANCE (LOW) (BANK1 SENSOR1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P1153 | O2 Sensor Circuit Range/Performance (High) (Bank1 Sensor1)    | <Ref. to EN(H4SO U5)(diag)-264, DTC P1153 O2 SENSOR CIRCUIT RANGE/PERFORMANCE (HIGH) (BANK1 SENSOR1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P1160 | Return Spring Failure   | <Ref. to EN(H4SO U5)(diag)-265, DTC P1160 RETURN SPRING FAILURE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P1400 | Fuel Tank Pressure Control Solenoid Valve Circuit Low         | <Ref. to EN(H4SO U5)(diag)-266, DTC P1400 FUEL TANK PRESSURE CONTROL SOLENOID VALVE CIRCUIT LOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P1420 | Fuel Tank Pressure Control Sol. Valve Circuit High            | <Ref. to EN(H4SO U5)(diag)-268, DTC P1420 FUEL TANK PRESSURE CONTROL SOL. VALVE CIRCUIT HIGH, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P1443 | Vent Control Solenoid Valve Function Problem                  | <Ref. to EN(H4SO U5)(diag)-270, DTC P1443 VENT CONTROL SOLENOID VALVE FUNCTION PROBLEM, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P1491 | Positive Crankcase Ventilation (Blow-by) Function Problem     | <Ref. to EN(H4SO U5)(diag)-272, DTC P1491 POSITIVE CRANKCASE VENTILATION (BLOW-BY) FUNCTION PROBLEM, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P1492 | EGR Solenoid Valve Signal #1 Circuit Malfunction (Low Input)  | <Ref. to EN(H4SO U5)(diag)-274, DTC P1492 EGR SOLENOID VALVE SIGNAL #1 CIRCUIT MALFUNCTION (LOW INPUT), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P1493 | EGR Solenoid Valve Signal #1 Circuit Malfunction (High Input) | <Ref. to EN(H4SO U5)(diag)-274, DTC P1493 EGR SOLENOID VALVE SIGNAL #1 CIRCUIT MALFUNCTION (HIGH INPUT), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P1494 | EGR Solenoid Valve Signal #2 Circuit Malfunction (Low Input)  | <Ref. to EN(H4SO U5)(diag)-274, DTC P1494 EGR SOLENOID VALVE SIGNAL #2 CIRCUIT MALFUNCTION (LOW INPUT), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |
| P1495 | EGR Solenoid Valve Signal #2 Circuit Malfunction (High Input) | <Ref. to EN(H4SO U5)(diag)-274, DTC P1495 EGR SOLENOID VALVE SIGNAL #2 CIRCUIT MALFUNCTION (HIGH INPUT), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>  |
| P1496 | EGR Solenoid Valve Signal #3 Circuit Malfunction (Low Input)  | <Ref. to EN(H4SO U5)(diag)-274, DTC P1496 EGR SOLENOID VALVE SIGNAL #3 CIRCUIT MALFUNCTION (LOW INPUT), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>   |

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| P1497 | EGR Solenoid Valve Signal #3 Circuit Malfunction (High Input)     | <Ref. to EN(H4SO U5)(diag)-274, DTC P1497 EGR SOLENOID VALVE SIGNAL #3 CIRCUIT MALFUNCTION (HIGH INPUT), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>     |
| P1498 | EGR Solenoid Valve Signal #4 Circuit Malfunction (Low Input)      | <Ref. to EN(H4SO U5)(diag)-275, DTC P1498 EGR SOLENOID VALVE SIGNAL #4 CIRCUIT MALFUNCTION (LOW INPUT), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>      |
| P1499 | EGR Solenoid Valve Signal #4 Circuit Malfunction (High Input)     | <Ref. to EN(H4SO U5)(diag)-278, DTC P1499 EGR SOLENOID VALVE SIGNAL #4 CIRCUIT MALFUNCTION (HIGH INPUT), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>     |
| P1518 | Starter Switch Circuit Low Input                                  | <Ref. to EN(H4SO U5)(diag)-281, DTC P1518 STARTER SWITCH CIRCUIT LOW INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                  |
| P1560 | Back-up Voltage Circuit Malfunction                               | <Ref. to EN(H4SO U5)(diag)-283, DTC P1560 BACK-UP VOLTAGE CIRCUIT MALFUNCTION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                               |
| P2096 | Post Catalyst Fuel Trim System Too Lean Bank 1                    | <Ref. to EN(H4SO U5)(diag)-285, DTC P2096 POST CATALYST FUEL TRIM SYSTEM TOO LEAN BANK 1, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                    |
| P2097 | Post Catalyst Fuel Trim System Too Rich Bank 1                    | <Ref. to EN(H4SO U5)(diag)-291, DTC P2097 POST CATALYST FUEL TRIM SYSTEM TOO RICH BANK 1, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                    |
| P2101 | Throttle Actuator Control Motor Circuit Range/Performance         | <Ref. to EN(H4SO U5)(diag)-296, DTC P2101 THROTTLE ACTUATOR CONTROL MOTOR CIRCUIT RANGE/PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>         |
| P2102 | Throttle Actuator Control Motor Circuit Low                       | <Ref. to EN(H4SO U5)(diag)-302, DTC P2102 THROTTLE ACTUATOR CONTROL MOTOR CIRCUIT LOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                       |
| P2103 | Throttle Actuator Control Motor Circuit High                      | <Ref. to EN(H4SO U5)(diag)-304, DTC P2103 THROTTLE ACTUATOR CONTROL MOTOR CIRCUIT HIGH, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                      |
| P2109 | Throttle/Pedal Position Sensor "A" Minimum Stop Performance       | <Ref. to EN(H4SO U5)(diag)-305, DTC P2109 THROTTLE/PEDAL POSITION SENSOR "A" MINIMUM STOP PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>       |
| P2122 | Throttle/Pedal Position Sensor/Switch "D" Circuit Low Input       | <Ref. to EN(H4SO U5)(diag)-306, DTC P2122 THROTTLE/PEDAL POSITION SENSOR/SWITCH "D" CIRCUIT LOW INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>       |
| P2123 | Throttle/Pedal Position Sensor/Switch "D" Circuit High Input      | <Ref. to EN(H4SO U5)(diag)-309, DTC P2123 THROTTLE/PEDAL POSITION SENSOR/SWITCH "D" CIRCUIT HIGH INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>      |
| P2127 | Throttle/Pedal Position Sensor/Switch "E" Circuit Low Input       | <Ref. to EN(H4SO U5)(diag)-311, DTC P2127 THROTTLE/PEDAL POSITION SENSOR/SWITCH "E" CIRCUIT LOW INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>       |
| P2128 | Throttle/Pedal Position Sensor/Switch "E" Circuit High Input      | <Ref. to EN(H4SO U5)(diag)-314, DTC P2128 THROTTLE/PEDAL POSITION SENSOR/SWITCH "E" CIRCUIT HIGH INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>      |
| P2135 | Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation | <Ref. to EN(H4SO U5)(diag)-316, DTC P2135 THROTTLE/PEDAL POSITION SENSOR/SWITCH "A"/"B" VOLTAGE CORRELATION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> |
| P2138 | Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation | <Ref. to EN(H4SO U5)(diag)-320, DTC P2138 THROTTLE/PEDAL POSITION SENSOR/SWITCH "D"/"E" VOLTAGE CORRELATION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).> |
| P2227 | Barometric Pressure Circuit Range/Performance                     | <Ref. to EN(H4SO U5)(diag)-324, DTC P2227 BAROMETRIC PRESSURE CIRCUIT RANGE/PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                     |
| P2228 | Barometric Pressure Circuit Low                                   | <Ref. to EN(H4SO U5)(diag)-324, DTC P2228 BAROMETRIC PRESSURE CIRCUIT LOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                   |
| P2229 | Barometric Pressure Circuit High                                  | <Ref. to EN(H4SO U5)(diag)-325, DTC P2229 BAROMETRIC PRESSURE CIRCUIT HIGH, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>                                  |