# 1. List of Diagnostic Trouble Code (DTC)

## A: LIST

DTC	Item	Index
P0026	Intake Valve Control Solenoid Circuit Range/Performance (Bank 1)	<ref. control="" dtc="" gd(h4so)-9,="" intake="" p0026="" solenoid<br="" to="" valve="">CIRCUIT RANGE/PERFORMANCE (BANK 1), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0028	Intake Valve Control Solenoid Circuit Range/Performance (Bank 2)	<ref. (bank="" (dtc)="" 2),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-10,="" intake="" p0028="" performance="" range="" solenoid="" to="" trouble="" valve=""></ref.>
P0030	HO2S Heater Control Circuit (Bank 1 Sensor 1)	<ref. (bank="" (dtc)="" 1="" 1),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-11,="" heater="" ho2s="" p0030="" sensor="" to="" trouble=""></ref.>
P0031	HO2S Heater Control Circuit Low (Bank 1 Sensor 1)	<ref. circuit<br="" control="" dtc="" gd(h4so)-13,="" heater="" ho2s="" p0031="" to="">LOW (BANK 1 SENSOR 1), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0032	HO2S Heater Control Circuit High (Bank 1 Sensor 1)	<ref. (bank="" (dtc)="" 1="" 1),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-15,="" heater="" high="" ho2s="" p0032="" sensor="" to="" trouble=""></ref.>
P0037	HO2S Heater Control Circuit Low (Bank 1 Sensor 2)	<ref. (bank="" (dtc)="" 1="" 2),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-17,="" heater="" ho2s="" low="" p0037="" sensor="" to="" trouble=""></ref.>
P0038	HO2S Heater Control Circuit High (Bank 1 Sensor 2)	<ref. (bank="" (dtc)="" 1="" 2),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-19,="" heater="" high="" ho2s="" p0038="" sensor="" to="" trouble=""></ref.>
P0068	MAP/MAF - Throttle Position Correlation	<ref. (dtc)="" -="" code="" correlation,="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-21,="" maf="" map="" p0068="" position="" throttle="" to="" trouble=""></ref.>
P0076	Intake Valve Control Solenoid Circuit Low (Bank 1)	<ref. (bank="" (dtc)="" 1),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-23,="" intake="" low="" p0076="" solenoid="" to="" trouble="" valve=""></ref.>
P0077	Intake Valve Control Solenoid Circuit High (Bank 1)	<ref. (bank="" (dtc)="" 1),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-24,="" high="" intake="" p0077="" solenoid="" to="" trouble="" valve=""></ref.>
P0082	Intake Valve Control Solenoid Circuit Low (Bank 2)	<ref. (bank="" (dtc)="" 2),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-25,="" intake="" low="" p0082="" solenoid="" to="" trouble="" valve=""></ref.>
P0083	Intake Valve Control Solenoid Circuit High (Bank 2)	<ref. (bank="" (dtc)="" 2),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-25,="" high="" intake="" p0083="" solenoid="" to="" trouble="" valve=""></ref.>
P0101	Mass or Volume Air Flow Circuit Range/Performance	<ref. air="" cir-<br="" dtc="" flow="" gd(h4so)-26,="" mass="" or="" p0101="" to="" volume="">CUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0102	Mass or Volume Air Flow Circuit Low Input	<ref. air="" cir-<br="" dtc="" flow="" gd(h4so)-29,="" mass="" or="" p0102="" to="" volume="">CUIT LOW INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0103	Mass or Volume Air Flow Circuit High Input	<ref. air="" cir-<br="" dtc="" flow="" gd(h4so)-31,="" mass="" or="" p0103="" to="" volume="">CUIT HIGH INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0107	Manifold Absolute Pressure/Baro- metric Pressure Circuit Low Input	<ref. <br="" absolute="" dtc="" gd(h4so)-33,="" manifold="" p0107="" pressure="" to="">BAROMETRIC PRESSURE CIRCUIT LOW INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0108	Manifold Absolute Pressure/Baro- metric Pressure Circuit High Input	<ref. <br="" absolute="" dtc="" gd(h4so)-35,="" manifold="" p0108="" pressure="" to="">BAROMETRIC PRESSURE CIRCUIT HIGH INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0111	Intake Air Temperature Sensor 1 Circuit Range/Performance	<ref. (dtc)="" 1="" air="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-37,="" intake="" p0111="" performance,="" range="" sensor="" temperature="" to="" trouble=""></ref.>
P0112	Intake Air Temperature Sensor 1 Circuit Low	<ref. (dtc)="" 1="" air="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-39,="" intake="" low,="" p0112="" sensor="" temperature="" to="" trouble=""></ref.>

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P0113	Intake Air Temperature Sensor 1 Circuit High	<ref. air="" dtc="" gd(h4so)-41,="" intake="" p0113="" sensor<br="" temperature="" to="">1 CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0117	Engine Coolant Temperature Circuit Low	<ref. coolant="" dtc="" engine="" gd(h4so)-43,="" p0117="" temperature<br="" to="">CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0118	Engine Coolant Temperature Circuit High	<ref. coolant="" dtc="" engine="" gd(h4so)-45,="" p0118="" temperature<br="" to="">CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0122	Throttle/Pedal Position Sensor/ Switch "A" Circuit Low	<ref. dtc="" gd(h4so)-47,="" p0122="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "A" CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0123	Throttle/Pedal Position Sensor/ Switch "A" Circuit High	<ref. dtc="" gd(h4so)-49,="" p0123="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "A" CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detect- ing Criteria.&gt;</ref.>
P0125	Insufficient Coolant Temperature for Closed Loop Fuel Control	<ref. coolant="" dtc="" gd(h4so)-51,="" insufficient="" p0125="" tempera-<br="" to="">TURE FOR CLOSED LOOP FUEL CONTROL, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0126	Insufficient Engine Coolant Temperature for Stable Operation	<ref. (dtc)="" code="" coolant="" criteria.="" detecting="" diagnostic="" dtc="" engine="" for="" gd(h4so)-53,="" insufficient="" operation,="" p0126="" stable="" temperature="" to="" trouble=""></ref.>
P0128	Coolant Thermostat (Engine Coolant Temperature Below Thermostat Regulating Temperature)	<ref. (dtc)="" (engine="" below="" code="" coolant="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-55,="" p0128="" regulating="" temperature="" temperature),="" thermostat="" to="" trouble=""></ref.>
P0131	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	<ref. (bank="" (dtc)="" 1="" 1),="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-57,="" low="" o2="" p0131="" sensor="" to="" trouble="" voltage=""></ref.>
P0132	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	<ref. (bank="" (dtc)="" 1="" 1),="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-59,="" high="" o2="" p0132="" sensor="" to="" trouble="" voltage=""></ref.>
P0133	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	<ref. circuit="" dtc="" gd(h4so)-61,="" o2="" p0133="" sensor="" slow<br="" to="">RESPONSE (BANK 1 SENSOR 1), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0134	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 1)	<ref. (bank="" (dtc)="" 1="" 1),="" activity="" circuit="" code="" criteria.="" detected="" detecting="" diagnostic="" dtc="" gd(h4so)-64,="" no="" o2="" p0134="" sensor="" to="" trouble=""></ref.>
P0137	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 2)	<ref. circuit="" dtc="" gd(h4so)-66,="" low="" o2="" p0137="" sensor="" to="" voltage<br="">(BANK 1 SENSOR 2), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0138	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	<ref. circuit="" dtc="" gd(h4so)-68,="" high="" o2="" p0138="" sensor="" to="" voltage<br="">(BANK 1 SENSOR 2), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0139	O2 Sensor Circuit Slow Response (Bank 1 Sensor 2)	<ref. circuit="" dtc="" gd(h4so)-69,="" o2="" p0139="" sensor="" slow<br="" to="">RESPONSE (BANK 1 SENSOR 2), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0140	O2 Sensor Circuit No Activity Detected (Bank1 Sensor2)	<ref. (bank="" (dtc)="" 1="" 2),="" activity="" circuit="" code="" criteria.="" detected="" detecting="" diagnostic="" dtc="" gd(h4so)-76,="" no="" o2="" p0140="" sensor="" to="" trouble=""></ref.>
P0171	System Too Lean (Bank 1)	<ref. (bank="" (dtc)="" 1),="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-78,="" lean="" p0171="" system="" to="" too="" trouble=""></ref.>
P0172	System Too Rich (Bank 1)	<ref. (bank="" (dtc)="" 1),="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-80,="" p0172="" rich="" system="" to="" too="" trouble=""></ref.>
P0181	Fuel Temperature Sensor "A" Circuit Range/Performance	<ref. "a"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4so)-82,="" p0181="" performance,="" range="" sensor="" temperature="" to="" trouble=""></ref.>
P0182	Fuel Temperature Sensor "A" Circuit Low Input	<ref. "a"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4so)-85,="" input,="" low="" p0182="" sensor="" temperature="" to="" trouble=""></ref.>
P0183	Fuel Temperature Sensor "A" Circuit High Input	<ref. "a"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4so)-87,="" high="" input,="" p0183="" sensor="" temperature="" to="" trouble=""></ref.>
P0196	Engine Oil Temperature Sensor Circuit Range/Performance	<ref. dtc="" engine="" gd(h4so)-89,="" oil="" p0196="" sen-<br="" temperature="" to="">SOR CIRCUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>

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P0197	Engine Oil Temperature Sensor Low	<ref. dtc="" engine="" gd(h4so)-91,="" oil="" p0197="" sen-<br="" temperature="" to="">SOR LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0198	Engine Oil Temperature Sensor High	<ref. dtc="" engine="" gd(h4so)-92,="" oil="" p0198="" sen-<br="" temperature="" to="">SOR HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0222	Throttle/Pedal Position Sensor/ Switch "B" Circuit Low	<ref. dtc="" gd(h4so)-93,="" p0222="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "B" CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0223	Throttle/Pedal Position Sensor/ Switch "B" Circuit High	<ref. dtc="" gd(h4so)-95,="" p0223="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "B" CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detect- ing Criteria.&gt;</ref.>
P0301	Cylinder 1 Misfire Detected	<ref. 1="" cylinder="" detected,<br="" dtc="" gd(h4so)-97,="" misfire="" p0301="" to="">Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0302	Cylinder 2 Misfire Detected	<ref. (dtc)="" 2="" code="" criteria.="" cylinder="" detected,="" detecting="" diagnostic="" dtc="" gd(h4so)-102,="" misfire="" p0302="" to="" trouble=""></ref.>
P0303	Cylinder 3 Misfire Detected	<ref. 3="" cylinder="" detected,<br="" dtc="" gd(h4so)-102,="" misfire="" p0303="" to="">Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0304	Cylinder 4 Misfire Detected	<ref. 4="" cylinder="" detected,<br="" dtc="" gd(h4so)-102,="" misfire="" p0304="" to="">Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0327	Knock Sensor 1 Circuit Low (Bank 1 or Single Sensor)	<ref. (bank="" (dtc)="" 1="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-103,="" knock="" low="" or="" p0327="" sensor="" sensor),="" single="" to="" trouble=""></ref.>
P0328	Knock Sensor 1 Circuit High (Bank 1 or Single Sensor)	<ref. (bank="" (dtc)="" 1="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-105,="" high="" knock="" or="" p0328="" sensor="" sensor),="" single="" to="" trouble=""></ref.>
P0335	Crankshaft Position Sensor "A" Circuit	<ref. "a"="" (dtc)="" circuit,="" code="" crankshaft="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-107,="" p0335="" position="" sensor="" to="" trouble=""></ref.>
P0336	Crankshaft Position Sensor "A" Circuit Range/Performance	<ref. crankshaft="" dtc="" gd(h4so)-109,="" p0336="" position="" sensor<br="" to="">"A" CIRCUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0340	Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)	<ref. "a"="" (bank="" (dtc)="" 1="" camshaft="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-111,="" or="" p0340="" position="" sensor="" sensor),="" single="" to="" trouble=""></ref.>
P0341	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sensor)	<ref. "a"="" (bank="" (dtc)="" 1="" camshaft="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-113,="" or="" p0341="" performance="" position="" range="" sensor="" sensor),="" single="" to="" trouble=""></ref.>
P0400	Exhaust Gas Recirculation Flow	<ref. (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" exhaust="" flow,="" gas="" gd(h4so)-115,="" p0400="" recirculation="" to="" trouble=""></ref.>
P0420	Catalyst System Efficiency Below Threshold (Bank 1)	<ref. catalyst="" dtc="" efficiency<br="" gd(h4so)-119,="" p0420="" system="" to="">BELOW THRESHOLD (BANK 1), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0442	Evaporative Emission Control System Leak Detected (Small Leak)	<ref. (dtc)="" (small="" code="" control="" criteria.="" detected="" detecting="" diagnostic="" dtc="" emission="" evaporative="" gd(h4so)-122,="" leak="" leak),="" p0442="" system="" to="" trouble=""></ref.>
P0447	Evaporative Emission Control System Vent Control Circuit Open	<ref. (dtc)="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" emission="" evaporative="" gd(h4so)-137,="" open,="" p0447="" system="" to="" trouble="" vent=""></ref.>
P0448	Evaporative Emission Control System Vent Control Circuit Shorted	<ref. (dtc)="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" emission="" evaporative="" gd(h4so)-139,="" p0448="" shorted,="" system="" to="" trouble="" vent=""></ref.>
P0451	Evaporative Emission Control System Pressure Sensor	<ref. (dtc)="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" emission="" evaporative="" gd(h4so)-141,="" p0451="" pressure="" sensor,="" system="" to="" trouble=""></ref.>
P0452	Evaporative Emission Control System Pressure Sensor Low Input	<ref. (dtc)="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" emission="" evaporative="" gd(h4so)-143,="" input,="" low="" p0452="" pressure="" sensor="" system="" to="" trouble=""></ref.>

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P0453	Evaporative Emission Control System Pressure Sensor High Input	<ref. control<br="" dtc="" emission="" evaporative="" gd(h4so)-145,="" p0453="" to="">SYSTEM PRESSURE SENSOR HIGH INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0456	Evaporative Emission Control System Leak Detected (Very Small Leak)	<ref. control<br="" dtc="" emission="" evaporative="" gd(h4so)-146,="" p0456="" to="">SYSTEM LEAK DETECTED (VERY SMALL LEAK), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0457	Evaporative Emission Control System Leak Detected (Fuel Cap Loose/Off)	<ref. control<br="" dtc="" emission="" evaporative="" gd(h4so)-146,="" p0457="" to="">SYSTEM LEAK DETECTED (FUEL CAP LOOSE/OFF), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0458	Evaporative Emission System Purge Control Valve Circuit Low	<ref. (dtc)="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" emission="" evaporative="" gd(h4so)-147,="" low,="" p0458="" purge="" system="" to="" trouble="" valve=""></ref.>
P0459	Evaporative Emission System Purge Control Valve Circuit High	<ref. (dtc)="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" emission="" evaporative="" gd(h4so)-149,="" high,="" p0459="" purge="" system="" to="" trouble="" valve=""></ref.>
P0461	Fuel Level Sensor "A" Circuit Range/Performance	<ref. "a"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4so)-151,="" level="" p0461="" performance,="" range="" sensor="" to="" trouble=""></ref.>
P0462	Fuel Level Sensor "A" Circuit Low	<ref. "a"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4so)-153,="" level="" low,="" p0462="" sensor="" to="" trouble=""></ref.>
P0463	Fuel Level Sensor "A" Circuit High	<ref. "a"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4so)-155,="" high,="" level="" p0463="" sensor="" to="" trouble=""></ref.>
P0464	Fuel Level Sensor Circuit Intermit- tent	<ref. (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4so)-157,="" intermittent,="" level="" p0464="" sensor="" to="" trouble=""></ref.>
P0483	Fan Rationality Check	<ref. (dtc)="" check,="" code="" criteria.="" detecting="" diagnostic="" dtc="" fan="" gd(h4so)-160,="" p0483="" rationality="" to="" trouble=""></ref.>
P0500	Vehicle Speed Sensor "A"	<ref. "a",="" (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-161,="" p0500="" sensor="" speed="" to="" trouble="" vehicle=""></ref.>
P0506	Idle Air Control System RPM Lower Than Expected	<ref. (dtc)="" air="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" expected,="" gd(h4so)-163,="" idle="" lower="" p0506="" rpm="" system="" than="" to="" trouble=""></ref.>
P0507	Idle Air Control System RPM Higher Than Expected	<ref. (dtc)="" air="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" expected,="" gd(h4so)-165,="" higher="" idle="" p0507="" rpm="" system="" than="" to="" trouble=""></ref.>
P0512	Starter Request Circuit	<ref. (dtc)="" circuit,="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-167,="" p0512="" request="" starter="" to="" trouble=""></ref.>
P0513	Incorrect Immobilizer Key	<ref. (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-168,="" immobilizer="" incorrect="" key,="" p0513="" to="" trouble=""></ref.>
P0519	Idle Air Control System Performance	<ref. (dtc)="" air="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-169,="" idle="" p0519="" per-formance,="" system="" to="" trouble=""></ref.>
P0600	Serial Communication Link	<ref. (dtc)="" code="" communication="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-170,="" link,="" p0600="" serial="" to="" trouble=""></ref.>
P0604	Internal Control Module Random Access Memory (RAM) Error	<ref. control="" dtc="" gd(h4so)-171,="" internal="" module<br="" p0604="" to="">RANDOM ACCESS MEMORY (RAM) ERROR, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0605	Internal Control Module Read Only Memory (ROM) Error	<ref. control="" dtc="" gd(h4so)-173,="" internal="" module<br="" p0605="" to="">READ ONLY MEMORY (ROM) ERROR, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P0607	Control Module Performance	<ref. (dtc)="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-174,="" module="" p0607="" perfor-mance,="" to="" trouble=""></ref.>
P0638	Throttle Actuator Control Range/ Performance (Bank 1)	<ref. (bank="" (dtc)="" 1),="" actuator="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-177,="" p0638="" performance="" range="" throttle="" to="" trouble=""></ref.>
P0691	Fan 1 Control Circuit Low	<ref. (dtc)="" 1="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" fan="" gd(h4so)-180,="" low,="" p0691="" to="" trouble=""></ref.>

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P0692	Fan 1 Control Circuit High	<ref. (dtc)="" 1="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" fan="" gd(h4so)-181,="" high,="" p0692="" to="" trouble=""></ref.>
P0700	Transmission Control System (MIL Request)	<ref. (dtc)="" (mil="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-182,="" p0700="" request),="" system="" to="" transmission="" trouble=""></ref.>
P0851	Park/Neutral Switch Input Circuit Low (AT Model)	<ref. (at="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-183,="" input="" low="" model),="" neutral="" p0851="" park="" switch="" to="" trouble=""></ref.>
P0851	Neutral Switch Input Circuit Low (MT Model)	<ref. (dtc)="" (mt="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-184,="" input="" low="" model),="" neutral="" p0851="" switch="" to="" trouble=""></ref.>
P0852	Park/Neutral Switch Input Circuit High (AT Model)	<ref. (at="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-185,="" high="" input="" model),="" neutral="" p0852="" park="" switch="" to="" trouble=""></ref.>
P0852	Neutral Switch Input Circuit High (MT Model)	<ref. (dtc)="" (mt="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-186,="" high="" input="" model),="" neutral="" p0852="" switch="" to="" trouble=""></ref.>
P1152	O2 Sensor Circuit Range/Performance (Low) (Bank1 Sensor1)	<ref. (bank="" (dtc)="" (low)="" 1="" 1),="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-187,="" o2="" p1152="" per-formance="" range="" sensor="" to="" trouble=""></ref.>
P1153	O2 Sensor Circuit Range/Performance (High) (Bank1 Sensor1)	<ref. (bank="" (dtc)="" (high)="" 1="" 1),="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-190,="" o2="" p1153="" per-formance="" range="" sensor="" to="" trouble=""></ref.>
P1160	Return Spring Failure	<ref. (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" failure,="" gd(h4so)-193,="" p1160="" return="" spring="" to="" trouble=""></ref.>
P1400	Fuel Tank Pressure Control Sole- noid Valve Circuit Low	<ref. (dtc)="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4so)-195,="" low,="" p1400="" pressure="" solenoid="" tank="" to="" trouble="" valve=""></ref.>
P1420	Fuel Tank Pressure Control Sol. Valve Circuit High	<ref. (dtc)="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4so)-197,="" high,="" p1420="" pressure="" sol.="" tank="" to="" trouble="" valve=""></ref.>
P1443	Vent Control Solenoid Valve Function Problem	<ref. (dtc)="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" function="" gd(h4so)-199,="" p1443="" problem,="" solenoid="" to="" trouble="" valve="" vent=""></ref.>
P1491	Positive Crankcase Ventilation (Blow-by) Function Problem	<ref. crankcase="" dtc="" gd(h4so)-201,="" p1491="" positive="" to="" ventila-<br="">TION (BLOW-BY) FUNCTION PROBLEM, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P1492	EGR Solenoid Valve Signal #1 Circuit Malfunction (Low Input)	<ref. #1="" (dtc)="" (low="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" egr="" gd(h4so)-203,="" input),="" malfunction="" p1492="" signal="" solenoid="" to="" trouble="" valve=""></ref.>
P1493	EGR Solenoid Valve Signal #1 Circuit Malfunction (High Input)	<ref. #1="" (dtc)="" (high="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" egr="" gd(h4so)-205,="" input),="" malfunction="" p1493="" signal="" solenoid="" to="" trouble="" valve=""></ref.>
P1494	EGR Solenoid Valve Signal #2 Circuit Malfunction (Low Input)	<ref. #2<br="" dtc="" egr="" gd(h4so)-207,="" p1494="" signal="" solenoid="" to="" valve="">CIRCUIT MALFUNCTION (LOW INPUT), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P1495	EGR Solenoid Valve Signal #2 Circuit Malfunction (High Input)	<ref. #2<br="" dtc="" egr="" gd(h4so)-207,="" p1495="" signal="" solenoid="" to="" valve="">CIRCUIT MALFUNCTION (HIGH INPUT), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P1496	EGR Solenoid Valve Signal #3 Circuit Malfunction (Low Input)	<ref. #3<br="" dtc="" egr="" gd(h4so)-207,="" p1496="" signal="" solenoid="" to="" valve="">CIRCUIT MALFUNCTION (LOW INPUT), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P1497	EGR Solenoid Valve Signal #3 Circuit Malfunction (High Input)	<ref. #3<br="" dtc="" egr="" gd(h4so)-207,="" p1497="" signal="" solenoid="" to="" valve="">CIRCUIT MALFUNCTION (HIGH INPUT), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P1498	EGR Solenoid Valve Signal #4 Circuit Malfunction (Low Input)	<ref. #4<br="" dtc="" egr="" gd(h4so)-207,="" p1498="" signal="" solenoid="" to="" valve="">CIRCUIT MALFUNCTION (LOW INPUT), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>

DTC	Item	Index
P1499	EGR Solenoid Valve Signal #4 Circuit Malfunction (High Input)	<ref. #4<br="" dtc="" egr="" gd(h4so)-207,="" p1499="" signal="" solenoid="" to="" valve="">CIRCUIT MALFUNCTION (HIGH INPUT), Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P1518	Starter Switch Circuit Low Input	<ref. (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-208,="" input,="" low="" p1518="" starter="" switch="" to="" trouble=""></ref.>
P1560	Back-up Voltage Circuit Malfunction	<ref. back-up="" circuit="" dtc="" gd(h4so)-209,="" mal-<br="" p1560="" to="" voltage="">FUNCTION, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P1570	Antenna	<ref. (dtc)="" antenna,="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-210,="" p1570="" to="" trouble=""></ref.>
P1571	Reference Code Incompatibility	<ref. (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-210,="" incompatibility,="" p1571="" reference="" to="" trouble=""></ref.>
P1572	IMM Circuit Failure (Except Antenna Circuit)	<ref. (dtc)="" (except="" antenna="" circuit="" circuit),="" code="" criteria.="" detecting="" diagnostic="" dtc="" failure="" gd(h4so)-210,="" imm="" p1572="" to="" trouble=""></ref.>
P1574	Key Communication Failure	<ref. (dtc)="" code="" communication="" criteria.="" detecting="" diagnostic="" dtc="" failure,="" gd(h4so)-210,="" key="" p1574="" to="" trouble=""></ref.>
P1576	EGI Control Module EEPROM	<ref. (dtc)="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" eeprom,="" egi="" gd(h4so)-210,="" module="" p1576="" to="" trouble=""></ref.>
P1577	IMM Control Module EEPROM	<ref. (dtc)="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" eeprom,="" gd(h4so)-210,="" imm="" module="" p1577="" to="" trouble=""></ref.>
P1578	Meter Failure	<ref. (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" failure,="" gd(h4so)-210,="" meter="" p1578="" to="" trouble=""></ref.>
P1602	Control Module Programming Error	<ref. control="" dtc="" gd(h4so)-211,="" module="" p1602="" program-<br="" to="">MING ERROR, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P2096	Post Catalyst Fuel Trim System Too Lean Bank 1	<ref. (dtc)="" 1,="" bank="" catalyst="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4so)-216,="" lean="" p2096="" post="" system="" to="" too="" trim="" trouble=""></ref.>
P2097	Post Catalyst Fuel Trim System Too Rich Bank 1	<ref. (dtc)="" 1,="" bank="" catalyst="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4so)-218,="" p2097="" post="" rich="" system="" to="" too="" trim="" trouble=""></ref.>
P2101	Throttle Actuator Control Motor Circuit Range/Performance	<ref. (dtc)="" actuator="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-220,="" motor="" p2101="" performance,="" range="" throttle="" to="" trouble=""></ref.>
P2102	Throttle Actuator Control Motor Circuit Low	<ref. actuator="" control<br="" dtc="" gd(h4so)-222,="" p2102="" throttle="" to="">MOTOR CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P2103	Throttle Actuator Control Motor Circuit High	<ref. (dtc)="" actuator="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-224,="" high,="" motor="" p2103="" throttle="" to="" trouble=""></ref.>
P2109	Throttle/Pedal Position Sensor "A" Minimum Stop Performance	<ref. dtc="" gd(h4so)-226,="" p2109="" pedal="" position="" sen-<br="" throttle="" to="">SOR "A" MINIMUM STOP PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P2122	Throttle/Pedal Position Sensor/ Switch "D" Circuit Low Input	<ref. dtc="" gd(h4so)-228,="" p2122="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "D" CIRCUIT LOW INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P2123	Throttle/Pedal Position Sensor/ Switch "D" Circuit High Input	<ref. dtc="" gd(h4so)-230,="" p2123="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "D" CIRCUIT HIGH INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P2127	Throttle/Pedal Position Sensor/ Switch "E" Circuit Low Input	<ref. dtc="" gd(h4so)-232,="" p2127="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "E" CIRCUIT LOW INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P2128	Throttle/Pedal Position Sensor/ Switch "E" Circuit High Input	<ref. dtc="" gd(h4so)-234,="" p2128="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "E" CIRCUIT HIGH INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P2135	Throttle/Pedal Position Sensor/ Switch "A"/"B" Voltage Correlation	<ref. dtc="" gd(h4so)-236,="" p2135="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "A"/"B" VOLTAGE CORRELATION, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>

# **List of Diagnostic Trouble Code (DTC)**

### **GENERAL DESCRIPTION**

DTC	Item	Index
P2138	Throttle/Pedal Position Sensor/ Switch "D"/"E" Voltage Correlation	<ref. dtc="" gd(h4so)-238,="" p2138="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "D"/"E" VOLTAGE CORRELATION, Diagnostic Trouble Code (DTC) Detecting Criteria.&gt;</ref.>
P2227	Barometric Pressure Circuit Range/Performance	<ref. (dtc)="" barometric="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-240,="" p2227="" performance,="" pressure="" range="" to="" trouble=""></ref.>
P2228	Barometric Pressure Circuit Low	<ref. (dtc)="" barometric="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-241,="" low,="" p2228="" pressure="" to="" trouble=""></ref.>
P2229	Barometric Pressure Circuit High	<ref. (dtc)="" barometric="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4so)-242,="" high,="" p2229="" pressure="" to="" trouble=""></ref.>