# 17.List of Diagnostic Trouble Code (DTC)

### A: LIST

DTC	Item	Note
B1570	Antenna	<ref. (dtc).="" antenna,="" b1570="" code="" diagnostic="" dtc="" im(diag)-16,="" procedure="" to="" trouble="" with=""></ref.>
B1571	Reference Code Incompatibility	<ref. (dtc).="" b1571="" code="" diagnostic="" dtc="" im(diag)-18,="" incompatibility,="" procedure="" reference="" to="" trouble="" with=""> <ref. (dtc).="" b1571="" code="" diagnostic="" dtc="" incompatibility,="" kps(diag)-102,="" procedure="" reference="" to="" trouble="" with=""></ref.></ref.>
B1572	IMM Circuit Failure (Except Antenna Circuit)	<ref. (dtc).="" (except="" antenna="" b1572="" circuit="" circuit),="" code="" diagnostic="" dtc="" failure="" im(diag)-19,="" imm="" procedure="" to="" trouble="" with=""> <ref. (dtc).="" (except="" antenna="" b1572="" circuit="" circuit),="" code="" diagnostic="" dtc="" failure="" imm="" kps(diag)-103,="" procedure="" to="" trouble="" with=""></ref.></ref.>
B1574	Key Communication Failure	<ref. (dtc).="" b1574="" code="" communication="" diagnostic="" dtc="" failure,="" im(diag)-22,="" key="" procedure="" to="" trouble="" with=""></ref.>
B1575	Incorrect Immobilizer Key	<ref. (dtc).="" b1575="" code="" diagnostic="" dtc="" im(diag)-22,="" immobilizer="" incorrect="" key,="" procedure="" to="" trouble="" with=""></ref.>
B1576	EGI Control Module EEPROM	<ref. (dtc).="" b1576="" code="" control="" diagnostic="" dtc="" eeprom,="" egi="" im(diag)-23,="" module="" procedure="" to="" trouble="" with=""> <ref. (dtc).="" b1576="" code="" control="" diagnostic="" dtc="" eeprom,="" egi="" kps(diag)-107,="" module="" procedure="" to="" trouble="" with=""></ref.></ref.>
B1577	IMM Control Module EEPROM	<ref. (dtc).="" b1577="" code="" control="" diagnostic="" dtc="" eeprom,="" im(diag)-23,="" imm="" module="" procedure="" to="" trouble="" with=""> <ref. (dtc).="" b1577="" code="" control="" diagnostic="" dtc="" eeprom,="" imm="" kps(diag)-107,="" module="" procedure="" to="" trouble="" with=""></ref.></ref.>
B1578	Meter Failure	<ref. (dtc).="" b1578="" code="" diagnostic="" dtc="" failure,="" im(diag)-24,="" meter="" procedure="" to="" trouble="" with=""></ref.>
P000A	A Camshaft Position Slow Response (Bank 1)	<ref. (bank="" (dtc).="" 1),="" a="" camshaft="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-102,="" p000a="" position="" procedure="" response="" slow="" to="" trouble="" with=""></ref.>
P000B	B Camshaft Position Slow Response (Bank 1)	<ref. (bank="" (dtc).="" 1),="" b="" camshaft="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-102,="" p000b="" position="" procedure="" response="" slow="" to="" trouble="" with=""></ref.>
P000C	A Camshaft Position Slow Response (Bank 2)	<ref. (bank="" (dtc).="" 2),="" a="" camshaft="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-102,="" p000c="" position="" procedure="" response="" slow="" to="" trouble="" with=""></ref.>
P000D	B Camshaft Position Slow Response (Bank 2)	<ref. (bank="" (dtc).="" 2),="" b="" camshaft="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-102,="" p000d="" position="" procedure="" response="" slow="" to="" trouble="" with=""></ref.>
P0010	"A" Camshaft Position Actuator Circuit/Open (Bank 1)	<ref. "a"="" (bank="" (dtc).="" 1),="" actuator="" camshaft="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-103,="" open="" p0010="" position="" procedure="" to="" trouble="" with=""></ref.>
P0011	Intake Camshaft Position - Timing Over-Advanced or System Perfor- mance (Bank 1)	<ref. (bank="" (dtc).="" -="" 1),="" camshaft="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-105,="" intake="" or="" over-advanced="" p0011="" performance="" position="" procedure="" system="" timing="" to="" trouble="" with=""></ref.>
P0013	B Camshaft Position Actuator Circuit/Open (Bank 1)	<ref. (bank="" (dtc).="" 1),="" actuator="" b="" camshaft="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-106,="" open="" p0013="" position="" procedure="" to="" trouble="" with=""></ref.>
P0014	Exhaust AVCS System 1 (Range/ Performance)	<ref. (dtc).="" (range="" 1="" avcs="" code="" diagnostic="" dtc="" en(h4do="" exhaust="" hev)(diag)-109,="" p0014="" performance),="" procedure="" system="" to="" trouble="" with=""></ref.>
P0016	Crankshaft Position - Camshaft Position Correlation (Bank1)	<ref. (bank1),="" (dtc).="" -="" camshaft="" code="" correlation="" crankshaft="" diagnostic="" dtc="" en(h4do="" hev)(diag)-110,="" p0016="" position="" procedure="" to="" trouble="" with=""></ref.>

DTC	Item	Note
P0017	Crank and Cam Timing B System Failure (Bank 1)	<ref. (bank="" (dtc).="" 1),="" and="" b="" cam="" code="" crank="" diagnostic="" dtc="" en(h4do="" failure="" hev)(diag)-112,="" p0017="" procedure="" system="" timing="" to="" trouble="" with=""></ref.>
P0018	Crankshaft Position - Camshaft Position Correlation (Bank2)	<ref. -<br="" crankshaft="" dtc="" en(h4do="" hev)(diag)-114,="" p0018="" position="" to="">CAMSHAFT POSITION CORRELATION (BANK2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0019	Crank and Cam Timing B System Failure (Bank 2)	<ref. and="" b<br="" cam="" crank="" dtc="" en(h4do="" hev)(diag)-116,="" p0019="" timing="" to="">SYSTEM FAILURE (BANK 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0020	"A" Camshaft Position Actuator Circuit/Open (Bank 2)	<ref. "a"="" (bank="" (dtc).="" 2),="" actuator="" camshaft="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-118,="" open="" p0020="" position="" procedure="" to="" trouble="" with=""></ref.>
P0021	Intake Camshaft Position - Timing Over-Advanced or System Perfor- mance (Bank 2)	<ref. camshaft="" dtc="" en(h4do="" hev)(diag)-120,="" intake="" p="" p0021="" position<="" to=""> - TIMING OVER-ADVANCED OR SYSTEM PERFORMANCE (BANK 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0023	B Camshaft Position Actuator Circuit/Open (Bank 2)	<ref. (bank="" (dtc).="" 2),="" actuator="" b="" camshaft="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-121,="" open="" p0023="" position="" procedure="" to="" trouble="" with=""></ref.>
P0024	Exhaust AVCS System 2 (Range/ Performance)	<ref. (dtc).="" (range="" 2="" avcs="" code="" diagnostic="" dtc="" en(h4do="" exhaust="" hev)(diag)-124,="" p0024="" performance),="" procedure="" system="" to="" trouble="" with=""></ref.>
P0030	HO2S Heater Control Circuit (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1),="" circuit="" code="" control="" diagnostic="" dtc="" en(h4do="" heater="" hev)(diag)-125,="" ho2s="" p0030="" procedure="" sensor="" to="" trouble="" with=""></ref.>
P0031	HO2S Heater Control Circuit Low (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1),="" circuit="" code="" control="" diagnostic="" dtc="" en(h4do="" heater="" hev)(diag)-127,="" ho2s="" low="" p0031="" procedure="" sensor="" to="" trouble="" with=""></ref.>
P0032	HO2S Heater Control Circuit High (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1),="" circuit="" code="" control="" diagnostic="" dtc="" en(h4do="" heater="" hev)(diag)-129,="" high="" ho2s="" p0032="" procedure="" sensor="" to="" trouble="" with=""></ref.>
P0037	HO2S Heater Control Circuit Low (Bank 1 Sensor 2)	<ref. (bank="" (dtc).="" 1="" 2),="" circuit="" code="" control="" diagnostic="" dtc="" en(h4do="" heater="" hev)(diag)-131,="" ho2s="" low="" p0037="" procedure="" sensor="" to="" trouble="" with=""></ref.>
P0038	HO2S Heater Control Circuit High (Bank 1 Sensor 2)	<ref. (bank="" (dtc).="" 1="" 2),="" circuit="" code="" control="" diagnostic="" dtc="" en(h4do="" heater="" hev)(diag)-133,="" high="" ho2s="" p0038="" procedure="" sensor="" to="" trouble="" with=""></ref.>
P0068	MAP/MAF - Throttle Position Correlation	<ref. -="" dtc="" en(h4do="" hev)(diag)-135,="" maf="" map="" p0068="" posi-<br="" throttle="" to="">TION CORRELATION, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0071	Ambient Temperature Sensor Circuit "A" Range/Performance	<ref. "a"="" (dtc).="" ambient="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-136,="" p0071="" performance,="" procedure="" range="" sensor="" temperature="" to="" trouble="" with=""></ref.>
P0072	Ambient Temperature Sensor Circuit "A" Low	<ref. "a"="" (dtc).="" ambient="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-138,="" low,="" p0072="" procedure="" sensor="" temperature="" to="" trouble="" with=""></ref.>
P0073	Ambient Temperature Sensor Circuit "A" High	<ref. "a"="" (dtc).="" ambient="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-138,="" high,="" p0073="" procedure="" sensor="" temperature="" to="" trouble="" with=""></ref.>
P0101	Mass or Volume Air Flow Circuit Range/Performance	<ref. (dtc).="" air="" circuit="" code="" diagnostic="" dtc="" en(h4do="" flow="" hev)(diag)-139,="" mass="" or="" p0101="" performance,="" procedure="" range="" to="" trouble="" volume="" with=""></ref.>
P0102	Mass or Volume Air Flow Circuit Low Input	<ref. (dtc).="" air="" circuit="" code="" diagnostic="" dtc="" en(h4do="" flow="" hev)(diag)-140,="" input,="" low="" mass="" or="" p0102="" procedure="" to="" trouble="" volume="" with=""></ref.>
P0103	Mass or Volume Air Flow Circuit High Input	<ref. (dtc).="" air="" circuit="" code="" diagnostic="" dtc="" en(h4do="" flow="" hev)(diag)-142,="" high="" input,="" mass="" or="" p0103="" procedure="" to="" trouble="" volume="" with=""></ref.>

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

#### **ENGINE (DIAGNOSTICS)**

DTC	Item	Note
P0107	Manifold Absolute Pressure/Barometric Pressure Circuit Low Input	<ref. absolute="" dtc="" en(h4do="" hev)(diag)-144,="" manifold="" p0107="" pres-<br="" to="">SURE/BAROMETRIC PRESSURE CIRCUIT LOW INPUT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0108	Manifold Absolute Pressure/Baro- metric Pressure Circuit High Input	<ref. absolute="" dtc="" en(h4do="" hev)(diag)-146,="" manifold="" p0108="" pres-<br="" to="">SURE/BAROMETRIC PRESSURE CIRCUIT HIGH INPUT, Diagnostic Proce- dure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0111	Intake Air Temperature Sensor Range/Performance Problem	<ref. air="" dtc="" en(h4do="" hev)(diag)-148,="" intake="" p0111="" temperature<br="" to="">SENSOR RANGE/PERFORMANCE PROBLEM, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0112	Intake Air Temperature Sensor 1 Circuit Low	<ref. air="" dtc="" en(h4do="" hev)(diag)-150,="" intake="" p0112="" temperature<br="" to="">SENSOR 1 CIRCUIT LOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0113	Intake Air Temperature Sensor 1 Circuit High	<ref. (dtc).="" 1="" air="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-152,="" high,="" intake="" p0113="" procedure="" sensor="" temperature="" to="" trouble="" with=""></ref.>
P0116	Engine Coolant Temperature Sensor 1 Circuit Range/Performance	<ref. (dtc).="" 1="" circuit="" code="" coolant="" diagnostic="" dtc="" en(h4do="" engine="" hev)(diag)-154,="" p0116="" performance,="" procedure="" range="" sensor="" temper-ature="" to="" trouble="" with=""></ref.>
P0117	Engine Coolant Temperature Circuit Low	<ref. coolant="" dtc="" en(h4do="" engine="" hev)(diag)-157,="" p0117="" temper-<br="" to="">ATURE CIRCUIT LOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0118	Engine Coolant Temperature Circuit High	<ref. coolant="" dtc="" en(h4do="" engine="" hev)(diag)-159,="" p0118="" temper-<br="" to="">ATURE CIRCUIT HIGH, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0122	Throttle/Pedal Position Sensor/ Switch "A" Circuit Low	<ref. "a"="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-161,="" low,="" p0122="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" with=""></ref.>
P0123	Throttle/Pedal Position Sensor/ Switch "A" Circuit High	<ref. "a"="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-164,="" high,="" p0123="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" with=""></ref.>
P0125	Insufficient Coolant Temperature for Closed Loop Fuel Control	<ref. (dtc).="" closed="" code="" control,="" coolant="" diagnostic="" dtc="" en(h4do="" for="" fuel="" hev)(diag)-167,="" insufficient="" loop="" p0125="" procedure="" temperature="" to="" trouble="" with=""></ref.>
P0128	Coolant Thermostat (Engine Coolant Temperature Below Thermostat Regulating Temperature)	<ref. coolant="" dtc="" en(h4do="" hev)(diag)-168,="" p0128="" thermostat<br="" to="">(ENGINE COOLANT TEMPERATURE BELOW THERMOSTAT REGULATING TEMPERATURE), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0131	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1),="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-169,="" low="" o2="" p0131="" procedure="" sensor="" to="" trouble="" voltage="" with=""></ref.>
P0132	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1),="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-171,="" high="" o2="" p0132="" procedure="" sensor="" to="" trouble="" voltage="" with=""></ref.>
P0134	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1),="" activity="" circuit="" code="" detected="" diagnostic="" dtc="" en(h4do="" hev)(diag)-173,="" no="" o2="" p0134="" procedure="" sensor="" to="" trouble="" with=""></ref.>
P0137	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 2)	<ref. (bank="" (dtc).="" 1="" 2),="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-175,="" low="" o2="" p0137="" procedure="" sensor="" to="" trouble="" voltage="" with=""></ref.>
P0138	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	<ref. (bank="" (dtc).="" 1="" 2),="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-177,="" high="" o2="" p0138="" procedure="" sensor="" to="" trouble="" voltage="" with=""></ref.>
P013A	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	<ref. dtc="" en(h4do="" hev)(diag)-179,="" o2="" p013a="" sensor="" slow<br="" to="">RESPONSE - RICH TO LEAN (BANK 1 SENSOR 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P013B	O2 Sensor Slow Response - Lean to Rich (Bank 1 Sensor 2)	<ref. dtc="" en(h4do="" hev)(diag)-181,="" o2="" p013b="" sensor="" slow<br="" to="">RESPONSE - LEAN TO RICH (BANK 1 SENSOR 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>

DTC	Item	Note
P013E	O2 Sensor Delayed Response - Rich to Lean (Bank 1 Sensor 2)	<ref. (bank="" (dtc).="" -="" 1="" 2),="" code="" delayed="" diagnostic="" dtc="" en(h4do="" hev)(diag)-181,="" lean="" o2="" p013e="" procedure="" response="" rich="" sensor="" to="" trouble="" with=""></ref.>
P013F	O2 Sensor Delayed Response - Lean to Rich (Bank 1 Sensor 2)	<ref. delayed<br="" dtc="" en(h4do="" hev)(diag)-181,="" o2="" p013f="" sensor="" to="">RESPONSE - LEAN TO RICH (BANK 1 SENSOR 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0141	O2 Sensor Heater Circuit (Bank1 Sensor2)	<ref. (bank1="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4do="" heater="" hev)(diag)-181,="" o2="" p0141="" procedure="" sensor="" sensor2),="" to="" trouble="" with=""></ref.>
P014C	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 1)	<ref. dtc="" en(h4do="" hev)(diag)-182,="" o2="" p014c="" sensor="" slow<br="" to="">RESPONSE - RICH TO LEAN (BANK 1 SENSOR 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P014D	O2 Sensor Slow Response - Lean to Rich (Bank 1 Sensor 1)	<ref. dtc="" en(h4do="" hev)(diag)-182,="" o2="" p014d="" sensor="" slow<br="" to="">RESPONSE - LEAN TO RICH (BANK 1 SENSOR 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P015A	O2 Sensor Delayed Response - Rich to Lean (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" -="" 1="" 1),="" code="" delayed="" diagnostic="" dtc="" en(h4do="" hev)(diag)-182,="" lean="" o2="" p015a="" procedure="" response="" rich="" sensor="" to="" trouble="" with=""></ref.>
P015B	O2 Sensor Delayed Response - Lean to Rich (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" -="" 1="" 1),="" code="" delayed="" diagnostic="" dtc="" en(h4do="" hev)(diag)-182,="" lean="" o2="" p015b="" procedure="" response="" rich="" sensor="" to="" trouble="" with=""></ref.>
P0171	System Too Lean (Bank 1)	<ref. (bank="" (dtc).="" 1),="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-182,="" lean="" p0171="" procedure="" system="" to="" too="" trouble="" with=""></ref.>
P0172	System Too Rich (Bank 1)	<ref. (bank="" (dtc).="" 1),="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-183,="" p0172="" procedure="" rich="" system="" to="" too="" trouble="" with=""></ref.>
P0196	Engine Oil Temperature Sensor Circuit Range/Performance	<ref. (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4do="" engine="" hev)(diag)-185,="" oil="" p0196="" performance,="" procedure="" range="" sensor="" temperature="" to="" trouble="" with=""></ref.>
P0197	Engine Oil Temperature Sensor Low	<ref. (dtc).="" code="" diagnostic="" dtc="" en(h4do="" engine="" hev)(diag)-188,="" low,="" oil="" p0197="" procedure="" sensor="" temperature="" to="" trouble="" with=""></ref.>
P0198	Engine Oil Temperature Sensor High	<ref. (dtc).="" code="" diagnostic="" dtc="" en(h4do="" engine="" hev)(diag)-190,="" high,="" oil="" p0198="" procedure="" sensor="" temperature="" to="" trouble="" with=""></ref.>
P0201	Injector #1	<ref. #1,="" (dtc).="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-192,="" injector="" p0201="" procedure="" to="" trouble="" with=""></ref.>
P0202	Injector #2	<ref. #2,="" (dtc).="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-194,="" injector="" p0202="" procedure="" to="" trouble="" with=""></ref.>
P0203	Injector #3	<ref. #3,="" (dtc).="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-194,="" injector="" p0203="" procedure="" to="" trouble="" with=""></ref.>
P0204	Injector #4	<ref. #4,="" (dtc).="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-194,="" injector="" p0204="" procedure="" to="" trouble="" with=""></ref.>
P0222	Throttle/Pedal Position Sensor/ Switch "B" Circuit Low	<ref. "b"="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-195,="" low,="" p0222="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" with=""></ref.>
P0223	Throttle/Pedal Position Sensor/ Switch "B" Circuit High	<ref. "b"="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-198,="" high,="" p0223="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" with=""></ref.>
P0300	Random/Multiple Cylinder Misfire Detected	<ref. cylin-<br="" dtc="" en(h4do="" hev)(diag)-201,="" multiple="" p0300="" random="" to="">DER MISFIRE DETECTED, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0301	Cylinder 1 Misfire Detected	<ref. (dtc).="" 1="" code="" cylinder="" detected,="" diagnostic="" dtc="" en(h4do="" hev)(diag)-205,="" misfire="" p0301="" procedure="" to="" trouble="" with=""></ref.>
P0302	Cylinder 2 Misfire Detected	<ref. (dtc).="" 2="" code="" cylinder="" detected,="" diagnostic="" dtc="" en(h4do="" hev)(diag)-205,="" misfire="" p0302="" procedure="" to="" trouble="" with=""></ref.>
P0303	Cylinder 3 Misfire Detected	<ref. (dtc).="" 3="" code="" cylinder="" detected,="" diagnostic="" dtc="" en(h4do="" hev)(diag)-205,="" misfire="" p0303="" procedure="" to="" trouble="" with=""></ref.>

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

#### **ENGINE (DIAGNOSTICS)**

DTC	Item	Note
P0304	Cylinder 4 Misfire Detected	<ref. (dtc).="" 4="" code="" cylinder="" detected,="" diagnostic="" dtc="" en(h4do="" hev)(diag)-206,="" misfire="" p0304="" procedure="" to="" trouble="" with=""></ref.>
P0327	Knock Sensor 1 Circuit Low (Bank 1 or Single Sensor)	<ref. (bank="" (dtc).="" 1="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-211,="" knock="" low="" or="" p0327="" procedure="" sensor="" sensor),="" single="" to="" trouble="" with=""></ref.>
P0328	Knock Sensor 1 Circuit High (Bank 1 or Single Sensor)	<ref. (bank="" (dtc).="" 1="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-213,="" high="" knock="" or="" p0328="" procedure="" sensor="" sensor),="" single="" to="" trouble="" with=""></ref.>
P0335	Crankshaft Position Sensor "A" Circuit	<ref. crankshaft="" dtc="" en(h4do="" hev)(diag)-215,="" p0335="" position<br="" to="">SENSOR "A" CIRCUIT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0336	Crankshaft Position Sensor "A" Circuit Range/Performance	<ref. "a"="" (dtc).="" circuit="" code="" crankshaft="" diagnostic="" dtc="" en(h4do="" hev)(diag)-218,="" p0336="" performance,="" position="" procedure="" range="" sensor="" to="" trouble="" with=""></ref.>
P0340	Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)	<ref. camshaft="" dtc="" en(h4do="" hev)(diag)-219,="" p0340="" position="" sen-<br="" to="">SOR "A" CIRCUIT (BANK 1 OR SINGLE SENSOR), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0341	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or Single Sensor)	<ref. camshaft="" dtc="" en(h4do="" hev)(diag)-221,="" p0341="" position="" sen-<br="" to="">SOR "A" CIRCUIT RANGE/PERFORMANCE (BANK 1 OR SINGLE SENSOR), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0345	Camshaft Position Sensor "A" Circuit (Bank 2)	<ref. camshaft="" dtc="" en(h4do="" hev)(diag)-222,="" p0345="" position="" sen-<br="" to="">SOR "A" CIRCUIT (BANK 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0346	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	<ref. camshaft="" dtc="" en(h4do="" hev)(diag)-224,="" p0346="" position="" sen-<br="" to="">SOR "A" CIRCUIT RANGE/PERFORMANCE (BANK 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0351	Ignition Coil A Primary/Secondary Circuit	<ref. <br="" a="" coil="" dtc="" en(h4do="" hev)(diag)-225,="" ignition="" p0351="" primary="" to="">SECONDARY CIRCUIT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0352	Ignition Coil B Primary/Secondary Circuit	<ref. <br="" b="" coil="" dtc="" en(h4do="" hev)(diag)-227,="" ignition="" p0352="" primary="" to="">SECONDARY CIRCUIT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0353	Ignition Coil C Primary/Secondary Circuit	<ref. <br="" c="" coil="" dtc="" en(h4do="" hev)(diag)-227,="" ignition="" p0353="" primary="" to="">SECONDARY CIRCUIT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0354	Ignition Coil D Primary/Secondary Circuit	<ref. <br="" coil="" d="" dtc="" en(h4do="" hev)(diag)-227,="" ignition="" p0354="" primary="" to="">SECONDARY CIRCUIT, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0365	Camshaft Position Sensor "B" Circuit (Bank 1)	<ref. camshaft="" dtc="" en(h4do="" hev)(diag)-228,="" p0365="" position="" sen-<br="" to="">SOR "B" CIRCUIT (BANK 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0366	Camshaft Position Sensor B Circuit Range/Performance (Bank 1)	<ref. camshaft="" dtc="" en(h4do="" hev)(diag)-230,="" p0366="" position="" sen-<br="" to="">SOR B CIRCUIT RANGE/PERFORMANCE (BANK 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0390	Camshaft Position Sensor "B" Circuit (Bank 2)	<ref. camshaft="" dtc="" en(h4do="" hev)(diag)-231,="" p0390="" position="" sen-<br="" to="">SOR "B" CIRCUIT (BANK 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0391	Camshaft Position Sensor B Circuit Range/Performance (Bank 2)	<ref. camshaft="" dtc="" en(h4do="" hev)(diag)-233,="" p0391="" position="" sen-<br="" to="">SOR B CIRCUIT RANGE/PERFORMANCE (BANK 2), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0400	Exhaust Gas Recirculation Flow	<ref. dtc="" en(h4do="" exhaust="" gas="" hev)(diag)-234,="" p0400="" recircula-<br="" to="">TION FLOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0420	Catalyst System Efficiency Below Threshold (Bank 1)	<ref. catalyst="" dtc="" effi-<br="" en(h4do="" hev)(diag)-235,="" p0420="" system="" to="">CIENCY BELOW THRESHOLD (BANK 1), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>

DTC	Item	Note
P0441	Evaporative Emission Cont. Sys. Incorrect Purge Flow	<ref. (dtc).="" code="" cont.="" diagnostic="" dtc="" emission="" en(h4do="" evaporative="" flow,="" hev)(diag)-240,="" incorrect="" p0441="" procedure="" purge="" sys.="" to="" trouble="" with=""></ref.>
P0451	Evaporative Emission System Pressure Sensor/Switch Range/Performance	<ref. dtc="" emission<br="" en(h4do="" evaporative="" hev)(diag)-241,="" p0451="" to="">SYSTEM PRESSURE SENSOR/SWITCH RANGE/PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0452	Evaporative Emission System Pressure Sensor/Switch Low	<ref. dtc="" emission<br="" en(h4do="" evaporative="" hev)(diag)-242,="" p0452="" to="">SYSTEM PRESSURE SENSOR/SWITCH LOW, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0453	Evaporative Emission System Pressure Sensor/Switch High	<ref. (dtc).="" code="" diagnostic="" dtc="" emission="" en(h4do="" evaporative="" hev)(diag)-244,="" high,="" p0453="" pressure="" procedure="" sensor="" switch="" system="" to="" trouble="" with=""></ref.>
P0455	Evaporative Emission System Leak Detected (Large Leak)	<ref. (dtc).="" (large="" code="" detected="" diagnostic="" dtc="" emission="" en(h4do="" evaporative="" hev)(diag)-246,="" leak="" leak),="" p0455="" procedure="" system="" to="" trouble="" with=""></ref.>
P0456	Evaporative Emission Control System Leak Detected (Very Small Leak)	<ref. (dtc).="" (very="" code="" control="" detected="" diagnostic="" dtc="" emission="" en(h4do="" evaporative="" hev)(diag)-247,="" leak="" leak),="" p0456="" procedure="" small="" system="" to="" trouble="" with=""></ref.>
P0458	Evaporative Emission System Purge Control Valve Circuit Low	<ref. (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" emission="" en(h4do="" evaporative="" hev)(diag)-248,="" low,="" p0458="" procedure="" purge="" system="" to="" trouble="" valve="" with=""></ref.>
P0459	Evaporative Emission System Purge Control Valve Circuit High	<ref. (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" emission="" en(h4do="" evaporative="" hev)(diag)-251,="" high,="" p0459="" procedure="" purge="" system="" to="" trouble="" valve="" with=""></ref.>
P0461	Fuel Level Sensor "A" Circuit Range/Performance	<ref. "a"="" (dtc).="" cir-cuit="" code="" diagnostic="" dtc="" en(h4do="" fuel="" hev)(diag)-253,="" level="" p0461="" performance,="" procedure="" range="" sensor="" to="" trouble="" with=""></ref.>
P0462	Fuel Level Sensor "A" Circuit Low	<ref. "a"="" (dtc).="" cir-cuit="" code="" diagnostic="" dtc="" en(h4do="" fuel="" hev)(diag)-253,="" level="" low,="" p0462="" procedure="" sensor="" to="" trouble="" with=""></ref.>
P0463	Fuel Level Sensor "A" Circuit High	<ref. "a"="" (dtc).="" cir-cuit="" code="" diagnostic="" dtc="" en(h4do="" fuel="" hev)(diag)-254,="" high,="" level="" p0463="" procedure="" sensor="" to="" trouble="" with=""></ref.>
P0500	Vehicle Speed Sensor "A"	<ref. "a",="" (dtc).="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-254,="" p0500="" procedure="" sensor="" speed="" to="" trouble="" vehicle="" with=""></ref.>
P0506	Idle Air Control System RPM Lower Than Expected	<ref. (dtc).="" air="" code="" control="" diagnostic="" dtc="" en(h4do="" expected,="" hev)(diag)-255,="" idle="" lower="" p0506="" procedure="" rpm="" system="" than="" to="" trouble="" with=""></ref.>
P0507	Idle Air Control System RPM Higher Than Expected	<ref. (dtc).="" air="" code="" control="" diagnostic="" dtc="" en(h4do="" expected,="" hev)(diag)-256,="" higher="" idle="" p0507="" procedure="" rpm="" system="" than="" to="" trouble="" with=""></ref.>
P050A	Cold Start Idle Air Control System Performance	<ref. (dtc).="" air="" code="" cold="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-257,="" idle="" p050a="" performance,="" procedure="" start="" system="" to="" trouble="" with=""></ref.>
P050B	Cold Start Ignition Timing Performance	<ref. cold="" dtc="" en(h4do="" hev)(diag)-265,="" ignition="" p050b="" start="" tim-<br="" to="">ING PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0512	Starter Request Circuit	<ref. (dtc).="" circuit,="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-266,="" p0512="" procedure="" request="" starter="" to="" trouble="" with=""></ref.>
P0560	System Voltage	<ref. (dtc).="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-269,="" p0560="" procedure="" system="" to="" trouble="" voltage,="" with=""></ref.>
P059A	Active Grille Shutter "A" Position Sensor Circuit	<ref. "a"="" (dtc).="" active="" circuit,="" code="" diagnostic="" dtc="" en(h4do="" grille="" hev)(diag)-272,="" p059a="" position="" procedure="" sensor="" shutter="" to="" trouble="" with=""></ref.>
P059F	Active Grille Shutter "A" Performance	<ref. "a"="" (dtc).="" active="" code="" diagnostic="" dtc="" en(h4do="" grille="" hev)(diag)-273,="" p059f="" performance,="" procedure="" shutter="" to="" trouble="" with=""></ref.>
P05A0	Active Grille Shutter "A" Stuck	<ref. "a"="" (dtc).="" active="" code="" diagnostic="" dtc="" en(h4do="" grille="" hev)(diag)-275,="" p05a0="" procedure="" shutter="" stuck,="" to="" trouble="" with=""></ref.>

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

#### **ENGINE (DIAGNOSTICS)**

DTC	Item	Note
P05A1	Active Grille Shutter "A" Range Over	<ref. "a"="" (dtc).="" active="" code="" diagnostic="" dtc="" en(h4do="" grille="" hev)(diag)-276,="" over,="" p05a1="" procedure="" range="" shutter="" to="" trouble="" with=""></ref.>
P05A2	Active Grille Shutter "A" Control Circuit	<ref. "a"="" (dtc).="" active="" circuit,="" code="" control="" diagnostic="" dtc="" en(h4do="" grille="" hev)(diag)-277,="" p05a2="" procedure="" shutter="" to="" trouble="" with=""></ref.>
P05A6	Active Grille Shutter "A" Supply Voltage Circuit/Open	<ref. "a"="" (dtc).="" active="" circuit="" code="" diagnostic="" dtc="" en(h4do="" grille="" hev)(diag)-278,="" open,="" p05a6="" procedure="" shutter="" supply="" to="" trouble="" voltage="" with=""></ref.>
P05C0	Active Grille Shutter "A" Over Temperature	<ref. "a"="" (dtc).="" active="" code="" diagnostic="" dtc="" en(h4do="" grille="" hev)(diag)-280,="" over="" p05c0="" procedure="" shutter="" temperature,="" to="" trouble="" with=""></ref.>
P0604	Internal Control Module Random Access Memory (RAM) Error	<ref. control="" dtc="" en(h4do="" hev)(diag)-281,="" internal="" mod-<br="" p0604="" to="">ULE RANDOM ACCESS MEMORY (RAM) ERROR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0605	Internal Control Module Read Only Memory (ROM) Error	<ref. control="" dtc="" en(h4do="" hev)(diag)-281,="" internal="" mod-<br="" p0605="" to="">ULE READ ONLY MEMORY (ROM) ERROR, Diagnostic Procedure with Diag- nostic Trouble Code (DTC).&gt;</ref.>
P0606	Control Module Processor	<ref. (dtc).="" code="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-282,="" module="" p0606="" procedure="" processor,="" to="" trouble="" with=""></ref.>
P060A	Internal Control Module Monitoring Processor Performance	<ref. control="" dtc="" en(h4do="" hev)(diag)-283,="" internal="" mod-<br="" p060a="" to="">ULE MONITORING PROCESSOR PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P060B	Internal Control Module A/D Processing Performance	<ref. control="" dtc="" en(h4do="" hev)(diag)-283,="" internal="" mod-<br="" p060b="" to="">ULE A/D PROCESSING PERFORMANCE, Diagnostic Procedure with Diagnos- tic Trouble Code (DTC).&gt;</ref.>
P0616	Starter Relay Circuit Low	<ref. (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-284,="" low,="" p0616="" procedure="" relay="" starter="" to="" trouble="" with=""></ref.>
P0617	Starter Relay Circuit High	<ref. (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-289,="" high,="" p0617="" procedure="" relay="" starter="" to="" trouble="" with=""></ref.>
P062F	Internal Control Module EEPROM Error	<ref. control="" dtc="" en(h4do="" hev)(diag)-294,="" internal="" mod-<br="" p062f="" to="">ULE EEPROM ERROR, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P0685	ECM/PCM Power Relay Control Circuit/Open	<ref. (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" ecm="" en(h4do="" hev)(diag)-295,="" open,="" p0685="" pcm="" power="" procedure="" relay="" to="" trouble="" with=""></ref.>
P0700	Transmission Control System (MIL Request)	<ref. (dtc).="" (mil="" code="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-297,="" p0700="" procedure="" request),="" system="" to="" transmission="" trouble="" with=""></ref.>
P081A	Starter Disable Circuit Low	<ref. (dtc).="" circuit="" code="" diagnostic="" disable="" dtc="" en(h4do="" hev)(diag)-298,="" low,="" p081a="" procedure="" starter="" to="" trouble="" with=""></ref.>
P0851	Park/Neutral Switch Input Circuit Low (AT Model)	<ref. (at="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-301,="" input="" low="" model),="" neutral="" p0851="" park="" procedure="" switch="" to="" trouble="" with=""></ref.>
P0852	Park/Neutral Switch Input Circuit High (AT Model)	<ref. (at="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-303,="" high="" input="" model),="" neutral="" p0852="" park="" procedure="" switch="" to="" trouble="" with=""></ref.>
P0A7B	Battery Energy Control Module Request MIL Illumination	<ref. (dtc).="" battery="" code="" control="" diagnostic="" dtc="" en(h4do="" energy="" hev)(diag)-305,="" illumination,="" mil="" module="" p0a7b="" procedure="" request="" to="" trouble="" with=""></ref.>
P0AC4	Hybrid Powertrain Control Module Request MIL Illumination	<ref. (dtc).="" code="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-305,="" hybrid="" illumination,="" mil="" module="" p0ac4="" powertrain="" procedure="" request="" to="" trouble="" with=""></ref.>
P0CA1	Drive Motor Control Module Request MIL Illumination	<ref. (dtc).="" code="" control="" diagnostic="" drive="" dtc="" en(h4do="" hev)(diag)-305,="" illumination,="" mil="" module="" motor="" p0ca1="" procedure="" request="" to="" trouble="" with=""></ref.>

DTC	Item	Note
P1160	Return Spring Failure	<ref. (dtc).="" code="" diagnostic="" dtc="" en(h4do="" failure,="" hev)(diag)-305,="" p1160="" procedure="" return="" spring="" to="" trouble="" with=""></ref.>
P1449	Evaporative Emission Cont. Sys. Air Filter Clog	<ref. (dtc).="" air="" clog,="" code="" cont.="" diagnostic="" dtc="" emission="" en(h4do="" evaporative="" filter="" hev)(diag)-306,="" p1449="" procedure="" sys.="" to="" trouble="" with=""></ref.>
P1451	Evaporative Emission Cont. Sys.	<ref. (dtc).="" code="" cont.="" diagnostic="" dtc="" emission="" en(h4do="" evaporative="" hev)(diag)-307,="" p1451="" procedure="" sys.,="" to="" trouble="" with=""></ref.>
P1492	EGR Solenoid Valve Signal #1 Circuit Malfunction (Low Input)	<ref. #1="" (dtc).="" (low="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4do="" hev)(diag)-308,="" input),="" malfunction="" p1492="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with=""></ref.>
P1493	EGR Solenoid Valve Signal #1 Circuit Malfunction (High Input)	<ref. dtc="" egr="" en(h4do="" hev)(diag)-308,="" p1493="" sig-<br="" solenoid="" to="" valve="">NAL #1 CIRCUIT MALFUNCTION (HIGH INPUT), Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P1494	EGR Solenoid Valve Signal #2 Circuit Malfunction (Low Input)	<ref. #2="" (dtc).="" (low="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4do="" hev)(diag)-308,="" input),="" malfunction="" p1494="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with=""></ref.>
P1495	EGR Solenoid Valve Signal #2 Circuit Malfunction (High Input)	<ref. #2="" (dtc).="" (high="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4do="" hev)(diag)-308,="" input),="" malfunction="" p1495="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with=""></ref.>
P1496	EGR Solenoid Valve Signal #3 Circuit Malfunction (Low Input)	<ref. #3="" (dtc).="" (low="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4do="" hev)(diag)-308,="" input),="" malfunction="" p1496="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with=""></ref.>
P1497	EGR Solenoid Valve Signal #3 Circuit Malfunction (High Input)	<ref. #3="" (dtc).="" (high="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4do="" hev)(diag)-308,="" input),="" malfunction="" p1497="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with=""></ref.>
P1498	EGR Solenoid Valve Signal #4 Circuit Malfunction (Low Input)	<ref. #4="" (dtc).="" (low="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4do="" hev)(diag)-309,="" input),="" malfunction="" p1498="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with=""></ref.>
P1499	EGR Solenoid Valve Signal #4 Circuit Malfunction (High Input)	<ref. #4="" (dtc).="" (high="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4do="" hev)(diag)-312,="" input),="" malfunction="" p1499="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with=""></ref.>
P2004	Intake Manifold Runner Control Stuck Open (Bank 1)	<ref. (bank="" (dtc).="" 1),="" code="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-315,="" intake="" manifold="" open="" p2004="" procedure="" runner="" stuck="" to="" trouble="" with=""></ref.>
P2005	Intake Manifold Runner Control Stuck Open (Bank 2)	<ref. (bank="" (dtc).="" 2),="" code="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-316,="" intake="" manifold="" open="" p2005="" procedure="" runner="" stuck="" to="" trouble="" with=""></ref.>
P2006	Intake Manifold Runner Control Stuck Closed (Bank 1)	<ref. (bank="" (dtc).="" 1),="" closed="" code="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-317,="" intake="" manifold="" p2006="" procedure="" runner="" stuck="" to="" trouble="" with=""></ref.>
P2007	Intake Manifold Runner Control Stuck Closed (Bank 2)	<ref. (bank="" (dtc).="" 2),="" closed="" code="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-318,="" intake="" manifold="" p2007="" procedure="" runner="" stuck="" to="" trouble="" with=""></ref.>
P2009	Intake Manifold Runner Control Circuit Low (Bank 1)	<ref. (bank="" (dtc).="" 1),="" circuit="" code="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-319,="" intake="" low="" manifold="" p2009="" procedure="" runner="" to="" trouble="" with=""></ref.>
P2012	Intake Manifold Runner Control Circuit Low (Bank 2)	<ref. (bank="" (dtc).="" 2),="" circuit="" code="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-321,="" intake="" low="" manifold="" p2012="" procedure="" runner="" to="" trouble="" with=""></ref.>
P2096	Post Catalyst Fuel Trim System Too Lean (Bank 1)	<ref. (bank="" (dtc).="" 1),="" catalyst="" code="" diagnostic="" dtc="" en(h4do="" fuel="" hev)(diag)-323,="" lean="" p2096="" post="" procedure="" system="" to="" too="" trim="" trouble="" with=""></ref.>
P2097	Post Catalyst Fuel Trim System Too Rich (Bank 1)	<ref. (bank="" (dtc).="" 1),="" catalyst="" code="" diagnostic="" dtc="" en(h4do="" fuel="" hev)(diag)-329,="" p2097="" post="" procedure="" rich="" system="" to="" too="" trim="" trouble="" with=""></ref.>

DTC	Item	Note
P2101	Throttle Actuator Control Motor Circuit Range/Performance	<ref. (dtc).="" actuator="" circuit="" code="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-335,="" motor="" p2101="" performance,="" procedure="" range="" throttle="" to="" trouble="" with=""></ref.>
P2102	Throttle Actuator Control Motor Circuit Low	<ref. (dtc).="" actuator="" circuit="" code="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-341,="" low,="" motor="" p2102="" procedure="" throttle="" to="" trouble="" with=""></ref.>
P2103	Throttle Actuator Control Motor Circuit High	<ref. (dtc).="" actuator="" circuit="" code="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-343,="" high,="" motor="" p2103="" procedure="" throttle="" to="" trouble="" with=""></ref.>
P2109	Throttle/Pedal Position Sensor "A" Minimum Stop Performance	<ref. dtc="" en(h4do="" hev)(diag)-344,="" p2109="" pedal="" position<br="" throttle="" to="">SENSOR "A" MINIMUM STOP PERFORMANCE, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P2119	Throttle Actuator Control Throttle Body Range/Performance	<ref. (dtc).="" actuator="" body="" code="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-344,="" p2119="" performance,="" procedure="" range="" throttle="" to="" trouble="" with=""></ref.>
P2122	Throttle/Pedal Position Sensor/ Switch "D" Circuit Low Input	<ref. "d"="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-345,="" input,="" low="" p2122="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" with=""></ref.>
P2123	Throttle/Pedal Position Sensor/ Switch "D" Circuit High Input	<ref. "d"="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-347,="" high="" input,="" p2123="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" with=""></ref.>
P2127	Throttle/Pedal Position Sensor/ Switch "E" Circuit Low Input	<ref. "e"="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-349,="" input,="" low="" p2127="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" with=""></ref.>
P2128	Throttle/Pedal Position Sensor/ Switch "E" Circuit High Input	<ref. "e"="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-351,="" high="" input,="" p2128="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" with=""></ref.>
P2135	Throttle/Pedal Position Sensor/ Switch "A"/"B" Voltage Correlation	<ref. "a"="" "b"="" (dtc).="" code="" correlation,="" diagnostic="" dtc="" en(h4do="" hev)(diag)-353,="" p2135="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" voltage="" with=""></ref.>
P2138	Throttle/Pedal Position Sensor/ Switch "D"/"E" Voltage Correlation	<ref. "d"="" "e"="" (dtc).="" code="" correlation,="" diagnostic="" dtc="" en(h4do="" hev)(diag)-356,="" p2138="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" voltage="" with=""></ref.>
P2195	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	<ref. <br="" biased="" dtc="" en(h4do="" hev)(diag)-358,="" o2="" p2195="" sensor="" signal="" to="">STUCK LEAN (BANK 1 SENSOR 1), Diagnostic Procedure with Diagnostic Trou- ble Code (DTC).&gt;</ref.>
P2196	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	<ref. <br="" biased="" dtc="" en(h4do="" hev)(diag)-360,="" o2="" p2196="" sensor="" signal="" to="">STUCK RICH (BANK 1 SENSOR 1), Diagnostic Procedure with Diagnostic Trou- ble Code (DTC).&gt;</ref.>
P219A	Bank 1 Air-Fuel Ratio Imbalance	<ref. (dtc).="" 1="" air-fuel="" bank="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-362,="" imbalance,="" p219a="" procedure="" ratio="" to="" trouble="" with=""></ref.>
P2270	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	<ref. <br="" biased="" dtc="" en(h4do="" hev)(diag)-372,="" o2="" p2270="" sensor="" signal="" to="">STUCK LEAN (BANK 1 SENSOR 2), Diagnostic Procedure with Diagnostic Trou- ble Code (DTC).&gt;</ref.>
P2271	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	<ref. <br="" biased="" dtc="" en(h4do="" hev)(diag)-374,="" o2="" p2271="" sensor="" signal="" to="">STUCK RICH (BANK 1 SENSOR 2), Diagnostic Procedure with Diagnostic Trou- ble Code (DTC).&gt;</ref.>
P2401	Evaporative Emission System Leak Detection Pump Control Circuit Low	<ref. (dtc).="" circuit="" code="" control="" detection="" diagnostic="" dtc="" emission="" en(h4do="" evaporative="" hev)(diag)-376,="" leak="" low,="" p2401="" procedure="" pump="" system="" to="" trouble="" with=""></ref.>
P2402	Evaporative Emission System Leak Detection Pump Control Circuit High	<ref. (dtc).="" circuit="" code="" control="" detection="" diagnostic="" dtc="" emission="" en(h4do="" evaporative="" hev)(diag)-379,="" high,="" leak="" p2402="" procedure="" pump="" system="" to="" trouble="" with=""></ref.>
P2404	Evaporative Emission System Leak Detection Pump Sense Circuit Range/Performance	<ref. (dtc).="" circuit="" code="" detection="" diagnostic="" dtc="" emission="" en(h4do="" evaporative="" hev)(diag)-381,="" leak="" p2404="" perfor-mance,="" procedure="" pump="" range="" sense="" system="" to="" trouble="" with=""></ref.>

DTC	Item	Note
P2419	Evaporative Emission System Switching Valve Control Circuit Low	<ref. (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" emission="" en(h4do="" evaporative="" hev)(diag)-385,="" low,="" p2419="" procedure="" switching="" system="" to="" trouble="" valve="" with=""></ref.>
P2420	Evaporative Emission System Switching Valve Control Circuit High	<ref. dtc="" emission<br="" en(h4do="" evaporative="" hev)(diag)-388,="" p2420="" to="">SYSTEM SWITCHING VALVE CONTROL CIRCUIT HIGH, Diagnostic Procedure with Diagnostic Trouble Code (DTC).&gt;</ref.>
P2530	Ignition Switch Run Position Circuit	<ref. (dtc).="" circuit,="" code="" diagnostic="" dtc="" en(h4do="" hev)(diag)-390,="" ignition="" p2530="" position="" procedure="" run="" switch="" to="" trouble="" with=""></ref.>
P2610	ECM/PCM Internal Engine Off Timer Performance	<ref. (dtc).="" code="" diagnostic="" dtc="" ecm="" en(h4do="" engine="" hev)(diag)-393,="" internal="" off="" p2610="" pcm="" performance,="" procedure="" timer="" to="" trouble="" with=""></ref.>
U0073	Control Module Communication Bus Off	<ref. (dtc).="" bus="" code="" communication="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-393,="" module="" off,="" procedure="" to="" trouble="" u0073="" with=""></ref.>
U0075	Control Module Communication Bus "PU-CAN" Off	<ref. "pu-can"="" (dtc).="" bus="" code="" communication="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-393,="" module="" off,="" procedure="" to="" trouble="" u0075="" with=""></ref.>
U0101	Lost Communication With TCM	<ref. (dtc).="" code="" communication="" diagnostic="" dtc="" en(h4do="" hev)(diag)-393,="" lost="" procedure="" tcm,="" to="" trouble="" u0101="" with=""></ref.>
U0122	Lost Communication With Vehicle Dynamics Control Module	<ref. (dtc).="" code="" communication="" control="" diagnostic="" dtc="" dynamics="" en(h4do="" hev)(diag)-393,="" lost="" module,="" procedure="" to="" trouble="" u0122="" vehicle="" with=""></ref.>
U0155	Lost Communication With Instru- ment Panel Cluster (IPC) Control Module	<ref. (dtc).="" (ipc)="" cluster="" code="" communication="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-393,="" instrument="" lost="" module,="" panel="" procedure="" to="" trouble="" u0155="" with=""></ref.>
U0284	Lost Communication With Active Grille Shutter Module "A"	<ref. "a",="" (dtc).="" active="" code="" communication="" diagnostic="" dtc="" en(h4do="" grille="" hev)(diag)-394,="" lost="" module="" procedure="" shutter="" to="" trouble="" u0284="" with=""></ref.>
U0293	Lost Communication With Hybrid Powertrain Control Module	<ref. (dtc).="" code="" communication="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-397,="" hybrid="" lost="" module,="" powertrain="" procedure="" to="" trouble="" u0293="" with=""></ref.>
U0402	Invalid Data Received From TCM	<ref. (dtc).="" code="" data="" diagnostic="" dtc="" en(h4do="" from="" hev)(diag)-397,="" invalid="" procedure="" received="" tcm,="" to="" trouble="" u0402="" with=""></ref.>
U0416	Invalid Data Received From Vehi- cle Dynamics Control Module	<ref. (dtc).="" code="" control="" data="" diagnostic="" dtc="" dynamics="" en(h4do="" from="" hev)(diag)-397,="" invalid="" module,="" procedure="" received="" to="" trouble="" u0416="" vehicle="" with=""></ref.>
U0423	Invalid Data Received From Instrument Panel Cluster Control Module	<ref. (dtc).="" cluster="" code="" control="" data="" diagnostic="" dtc="" en(h4do="" from="" hev)(diag)-397,="" instrument="" invalid="" module,="" panel="" procedure="" received="" to="" trouble="" u0423="" with=""></ref.>
U0594	Invalid Data Received From Hybrid Powertrain Control Module	<ref. (dtc).="" code="" control="" data="" diagnostic="" dtc="" en(h4do="" from="" hev)(diag)-397,="" hybrid="" invalid="" module,="" powertrain="" procedure="" received="" to="" trouble="" u0594="" with=""></ref.>
U1101	Lost Communication With TCM PU-CAN	<ref. (dtc).="" code="" communication="" diagnostic="" dtc="" en(h4do="" hev)(diag)-397,="" lost="" procedure="" pu-can,="" tcm="" to="" trouble="" u1101="" with=""></ref.>
U1293	Lost Communication With Hybrid Powertrain Control Module PU-CAN	<ref. (dtc).="" code="" communication="" control="" diagnostic="" dtc="" en(h4do="" hev)(diag)-397,="" hybrid="" lost="" module="" powertrain="" procedure="" pu-can,="" to="" trouble="" u1293="" with=""></ref.>
U1402	Invalid Data Received From TCM PU-CAN	<ref. (dtc).="" code="" data="" diagnostic="" dtc="" en(h4do="" from="" hev)(diag)-397,="" invalid="" procedure="" pu-can,="" received="" tcm="" to="" trouble="" u1402="" with=""></ref.>
U1594	Invalid Data Received From Hybrid Powertrain Control Module PU-CAN	<ref. (dtc).="" code="" control="" data="" diagnostic="" dtc="" en(h4do="" from="" hev)(diag)-397,="" hybrid="" invalid="" module="" powertrain="" procedure="" pu-can,="" received="" to="" trouble="" u1594="" with=""></ref.>