A: LIST

DTC	Item	Note
P0011	Intake Camshaft Position - Timing Over-Advanced or Sys- tem Performance (Bank 1)	<ref. -="" camshaft="" dtc="" gd(h4dotc)-9,="" intake="" p0011="" position="" timing<br="" to="">OVER-ADVANCED OR SYSTEM PERFORMANCE (BANK 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0016	Crankshaft Position - Camshaft Position Correlation (Bank 1)	<ref. -="" camshaft<br="" crankshaft="" dtc="" gd(h4dotc)-12,="" p0016="" position="" to="">POSITION CORRELATION (BANK 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0018	Crankshaft Position - Camshaft Position Correlation (Bank 2)	<ref. -="" camshaft<br="" crankshaft="" dtc="" gd(h4dotc)-12,="" p0018="" position="" to="">POSITION CORRELATION (BANK 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0021	Intake Camshaft Position - Timing Over-Advanced or System Performance (Bank 2)	<ref. -="" camshaft="" dtc="" gd(h4dotc)-12,="" intake="" p0021="" position="" tim-<br="" to="">ING OVER-ADVANCED OR SYSTEM PERFORMANCE (BANK 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0030	HO2S Heater Control Circuit (Bank 1 Sensor 1)	<ref. circuit<br="" control="" dtc="" gd(h4dotc)-13,="" heater="" ho2s="" p0030="" to="">(BANK 1 SENSOR 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0031	HO2S Heater Control Circuit Low (Bank 1 Sensor 1)	<ref. circuit<br="" control="" dtc="" gd(h4dotc)-15,="" heater="" ho2s="" p0031="" to="">LOW (BANK 1 SENSOR 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0032	HO2S Heater Control Circuit High (Bank 1 Sensor 1)	<ref. circuit<br="" control="" dtc="" gd(h4dotc)-17,="" heater="" ho2s="" p0032="" to="">HIGH (BANK 1 SENSOR 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0037	HO2S Heater Control Circuit Low (Bank 1 Sensor 2)	<ref. circuit<br="" control="" dtc="" gd(h4dotc)-19,="" heater="" ho2s="" p0037="" to="">LOW (BANK 1 SENSOR 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0038	HO2S Heater Control Circuit High (Bank 1 Sensor 2)	<ref. circuit<br="" control="" dtc="" gd(h4dotc)-21,="" heater="" ho2s="" p0038="" to="">HIGH (BANK 1 SENSOR 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0068	MAP/MAF - Throttle Position Cor- relation	<ref. -="" cor-<br="" dtc="" gd(h4dotc)-23,="" maf="" map="" p0068="" position="" throttle="" to="">RELATION, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0101	Mass or Volume Air Flow Circuit Range/Performance	<ref. air="" circuit<br="" dtc="" flow="" gd(h4dotc)-25,="" mass="" or="" p0101="" to="" volume="">RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0102	Mass or Volume Air Flow Circuit Low Input	<ref. air="" circuit<br="" dtc="" flow="" gd(h4dotc)-28,="" mass="" or="" p0102="" to="" volume="">LOW INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0103	Mass or Volume Air Flow Circuit High Input	<ref. air="" circuit<br="" dtc="" flow="" gd(h4dotc)-30,="" mass="" or="" p0103="" to="" volume="">HIGH INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0107	Manifold Absolute Pressure/ Barometric Pressure Circuit Low Input	<ref. <br="" absolute="" dtc="" gd(h4dotc)-32,="" manifold="" p0107="" pressure="" to="">BAROMETRIC PRESSURE CIRCUIT LOW INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0108	Manifold Absolute Pressure/ Barometric Pressure Circuit High Input	<ref. <br="" absolute="" dtc="" gd(h4dotc)-34,="" manifold="" p0108="" pressure="" to="">BAROMETRIC PRESSURE CIRCUIT HIGH INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0111	Intake Air Temperature Sensor 1 Circuit Range/Performance	<ref. 1<br="" air="" dtc="" gd(h4dotc)-36,="" intake="" p0111="" sensor="" temperature="" to="">CIRCUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0112	Intake Air Temperature Sensor 1 Circuit Low	<ref. 1<br="" air="" dtc="" gd(h4dotc)-38,="" intake="" p0112="" sensor="" temperature="" to="">CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0113	Intake Air Temperature Sensor 1 Circuit High	<ref. 1<br="" air="" dtc="" gd(h4dotc)-40,="" intake="" p0113="" sensor="" temperature="" to="">CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0117	Engine Coolant Temperature Circuit Low	<ref. coolant="" dtc="" engine="" gd(h4dotc)-42,="" p0117="" temperature<br="" to="">CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0118	Engine Coolant Temperature Circuit High	<ref. coolant="" dtc="" engine="" gd(h4dotc)-44,="" p0118="" temperature<br="" to="">CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0122	Throttle/Pedal Position Sensor/ Switch "A" Circuit Low	<ref. <br="" dtc="" gd(h4dotc)-46,="" p0122="" pedal="" position="" sensor="" throttle="" to="">SWITCH "A" CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0123	Throttle/Pedal Position Sensor/ Switch "A" Circuit High	<ref. <br="" dtc="" gd(h4dotc)-48,="" p0123="" pedal="" position="" sensor="" throttle="" to="">SWITCH "A" CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>

DTC	Item	Note
P0125	Insufficient Coolant Temperature for Closed Loop Fuel Control	<ref. coolant="" dtc="" gd(h4dotc)-50,="" insufficient="" p0125="" tempera-<br="" to="">TURE FOR CLOSED LOOP FUEL CONTROL, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0126	Insufficient Engine Coolant Temperature for Stable Operation	<ref. coolant<br="" dtc="" engine="" gd(h4dotc)-52,="" insufficient="" p0126="" to="">TEMPERATURE FOR STABLE OPERATION, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0128	Coolant Thermostat (Engine Coolant Temperature Below Thermostat Regulating Temperature)	<ref. (engine<br="" coolant="" dtc="" gd(h4dotc)-54,="" p0128="" thermostat="" to="">COOLANT TEMPERATURE BELOW THERMOSTAT REGULATING TEMPERA- TURE), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0131	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	<ref. circuit="" dtc="" gd(h4dotc)-56,="" low="" o2="" p0131="" sensor="" to="" voltage<br="">(BANK 1 SENSOR 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0132	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	<ref. circuit="" dtc="" gd(h4dotc)-58,="" high="" o2="" p0132="" sensor="" to="" voltage<br="">(BANK 1 SENSOR 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0133	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	<ref. circuit="" dtc="" gd(h4dotc)-60,="" o2="" p0133="" sensor="" slow<br="" to="">RESPONSE (BANK 1 SENSOR 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0134	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 1)	<ref. activity<br="" circuit="" dtc="" gd(h4dotc)-63,="" no="" o2="" p0134="" sensor="" to="">DETECTED (BANK 1 SENSOR 1), Diagnostic Trouble Code (DTC) Detecting Cri- teria.></ref.>
P0137	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 2)	<ref. circuit="" dtc="" gd(h4dotc)-65,="" low="" o2="" p0137="" sensor="" to="" voltage<br="">(BANK 1 SENSOR 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0138	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	<ref. circuit="" dtc="" gd(h4dotc)-67,="" high="" o2="" p0138="" sensor="" to="" voltage<br="">(BANK 1 SENSOR 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0139	O2 Sensor Circuit Slow Response (Bank 1 Sensor 2)	<ref. circuit="" dtc="" gd(h4dotc)-68,="" o2="" p0139="" sensor="" slow<br="" to="">RESPONSE (BANK 1 SENSOR 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0140	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 2)	<ref. activity<br="" circuit="" dtc="" gd(h4dotc)-73,="" no="" o2="" p0140="" sensor="" to="">DETECTED (BANK 1 SENSOR 2), Diagnostic Trouble Code (DTC) Detecting Cri- teria.></ref.>
P0171	System Too Lean (Bank 1)	<ref. (bank="" 1),="" diagnos-<br="" dtc="" gd(h4dotc)-75,="" lean="" p0171="" system="" to="" too="">tic Trouble Code (DTC) Detecting Criteria.></ref.>
P0172	System Too Rich (Bank 1)	<ref. (bank="" 1),="" diagnos-<br="" dtc="" gd(h4dotc)-78,="" p0172="" rich="" system="" to="" too="">tic Trouble Code (DTC) Detecting Criteria.></ref.>
P0181	Fuel Temperature Sensor "A" Circuit Range/Performance	<ref. "a"<br="" dtc="" fuel="" gd(h4dotc)-81,="" p0181="" sensor="" temperature="" to="">CIRCUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0182	Fuel Temperature Sensor "A" Circuit Low Input	<ref. "a"<br="" dtc="" fuel="" gd(h4dotc)-84,="" p0182="" sensor="" temperature="" to="">CIRCUIT LOW INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0183	Fuel Temperature Sensor "A" Circuit High Input	<ref. "a"<br="" dtc="" fuel="" gd(h4dotc)-86,="" p0183="" sensor="" temperature="" to="">CIRCUIT HIGH INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0222	Throttle/Pedal Position Sensor/ Switch "B" Circuit Low	<ref. <br="" dtc="" gd(h4dotc)-88,="" p0222="" pedal="" position="" sensor="" throttle="" to="">SWITCH "B" CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0223	Throttle/Pedal Position Sensor/ Switch "B" Circuit High	<ref. <br="" dtc="" gd(h4dotc)-90,="" p0223="" pedal="" position="" sensor="" throttle="" to="">SWITCH "B" CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0230	Fuel Pump Primary Circuit	<ref. (dtc)="" circuit,="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4dotc)-92,="" p0230="" primary="" pump="" to="" trouble=""></ref.>
P0244	Turbo/Super Charger Wastegate Solenoid "A" Range/Performance	<ref. charger="" dtc="" gd(h4dotc)-94,="" p0244="" super="" to="" turbo="" waste-<br="">GATE SOLENOID "A" RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0245	Turbo/Super Charger Wastegate Solenoid "A" Low	<ref. charger="" dtc="" gd(h4dotc)-96,="" p0245="" super="" to="" turbo="" waste-<br="">GATE SOLENOID "A" LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0246	Turbo/Super Charger Wastegate Solenoid "A" High	<ref. charger="" dtc="" gd(h4dotc)-98,="" p0246="" super="" to="" turbo="" waste-<br="">GATE SOLENOID "A" HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0301	Cylinder 1 Misfire Detected	<ref. 1="" cylinder="" detected,<br="" dtc="" gd(h4dotc)-100,="" misfire="" p0301="" to="">Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>

GENERAL DESCRIPTION

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DTC	Item	Note
P0451	Evaporative Emission Control System Pressure Sensor	<ref. control<br="" dtc="" emission="" evaporative="" gd(h4dotc)-152,="" p0451="" to="">SYSTEM PRESSURE SENSOR, Diagnostic Trouble Code (DTC) Detecting Crite- ria.></ref.>
P0452	Evaporative Emission Control System Pressure Sensor Low Input	<ref. control<br="" dtc="" emission="" evaporative="" gd(h4dotc)-154,="" p0452="" to="">SYSTEM PRESSURE SENSOR LOW INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0453	Evaporative Emission Control System Pressure Sensor High Input	<ref. control<br="" dtc="" emission="" evaporative="" gd(h4dotc)-156,="" p0453="" to="">SYSTEM PRESSURE SENSOR HIGH INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0456	Evaporative Emission Control System Leak Detected (Very Small Leak)	<ref. control<br="" dtc="" emission="" evaporative="" gd(h4dotc)-157,="" p0456="" to="">SYSTEM LEAK DETECTED (VERY SMALL LEAK), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0457	Evaporative Emission Control System Leak Detected (Fuel Cap Loose/Off)	<ref. control<br="" dtc="" emission="" evaporative="" gd(h4dotc)-157,="" p0457="" to="">SYSTEM LEAK DETECTED (FUEL CAP LOOSE/OFF), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0458	Evaporative Emission System Purge Control Valve Circuit Low	<ref. dtc="" emission="" evaporative="" gd(h4dotc)-158,="" p0458="" system<br="" to="">PURGE CONTROL VALVE CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0459	Evaporative Emission System Purge Control Valve Circuit High	<ref. dtc="" emission="" evaporative="" gd(h4dotc)-160,="" p0459="" system<br="" to="">PURGE CONTROL VALVE CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0461	Fuel Level Sensor "A" Circuit Range/Performance	<ref. "a"="" circuit<br="" dtc="" fuel="" gd(h4dotc)-162,="" level="" p0461="" sensor="" to="">RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0462	Fuel Level Sensor "A" Circuit Low	<ref. "a"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4dotc)-164,="" level="" low,="" p0462="" sensor="" to="" trouble=""></ref.>
P0463	Fuel Level Sensor "A" Circuit High	<ref. "a"="" circuit<br="" dtc="" fuel="" gd(h4dotc)-166,="" level="" p0463="" sensor="" to="">HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0464	Fuel Level Sensor Circuit Inter- mittent	<ref. circuit<br="" dtc="" fuel="" gd(h4dotc)-168,="" level="" p0464="" sensor="" to="">INTERMITTENT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0483	Fan Rationality Check	<ref. (dtc)="" check,="" code="" criteria.="" detecting="" diagnostic="" dtc="" fan="" gd(h4dotc)-171,="" p0483="" rationality="" to="" trouble=""></ref.>
P0502	Vehicle Speed Sensor "A" Circuit Low Input	<ref. "a"="" cir-<br="" dtc="" gd(h4dotc)-172,="" p0502="" sensor="" speed="" to="" vehicle="">CUIT LOW INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0503	Vehicle Speed Sensor "A" Inter- mittent/Erratic/High	<ref. "a"="" dtc="" gd(h4dotc)-173,="" inter-<br="" p0503="" sensor="" speed="" to="" vehicle="">MITTENT/ERRATIC/HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0506	Idle Air Control System RPM Lower Than Expected	<ref. (dtc)="" air="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" expected,="" gd(h4dotc)-174,="" idle="" lower="" p0506="" rpm="" system="" than="" to="" trouble=""></ref.>
P0507	Idle Air Control System RPM Higher Than Expected	<ref. air="" control="" dtc="" gd(h4dotc)-176,="" idle="" p0507="" rpm<br="" system="" to="">HIGHER THAN EXPECTED, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0512	Starter Request Circuit	<ref. circuit,="" diag-<br="" dtc="" gd(h4dotc)-178,="" p0512="" request="" starter="" to="">nostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0513	Incorrect Immobilizer Key	<ref. (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-179,="" immobilizer="" incorrect="" key,="" p0513="" to="" trouble=""></ref.>
P0519	Idle Air Control System Perfor- mance	<ref. air="" control="" dtc="" gd(h4dotc)-180,="" idle="" p0519="" per-<br="" system="" to="">FORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0600	Serial Communication Link	<ref. communication="" diag-<br="" dtc="" gd(h4dotc)-181,="" link,="" p0600="" serial="" to="">nostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0604	Internal Control Module Random Access Memory (RAM) Error	<ref. control="" dtc="" gd(h4dotc)-182,="" internal="" module="" p0604="" ran-<br="" to="">DOM ACCESS MEMORY (RAM) ERROR, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0605	Internal Control Module Read Only Memory (ROM) Error	<ref. control="" dtc="" gd(h4dotc)-183,="" internal="" module="" p0605="" read<br="" to="">ONLY MEMORY (ROM) ERROR, Diagnostic Trouble Code (DTC) Detecting Crite- ria.></ref.>
P0607	Control Module Performance	<ref. control="" dtc="" gd(h4dotc)-184,="" module="" p0607="" performance,<br="" to="">Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>

GENERAL DESCRIPTION

DTC	Item	Note
P0638	Throttle Actuator Control Range/ Performance (Bank 1)	<ref. actuator="" control<br="" dtc="" gd(h4dotc)-186,="" p0638="" throttle="" to="">RANGE/PERFORMANCE (BANK 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0691	Fan 1 Control Circuit Low	<ref. (dtc)="" 1="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" fan="" gd(h4dotc)-189,="" low,="" p0691="" to="" trouble=""></ref.>
P0692	Fan 1 Control Circuit High	<ref. 1="" circuit="" control="" diag-<br="" dtc="" fan="" gd(h4dotc)-190,="" high,="" p0692="" to="">nostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0700	Transmission Control System (MIL Request)	<ref. control="" dtc="" gd(h4dotc)-191,="" p0700="" system<br="" to="" transmission="">(MIL REQUEST), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0851	Park/Neutral Switch Input Circuit Low (AT Model)	<ref. cir-<br="" dtc="" gd(h4dotc)-192,="" input="" neutral="" p0851="" park="" switch="" to="">CUIT LOW (AT MODEL), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0851	Neutral Switch Input Circuit Low (MT Model)	<ref. (dtc)="" (mt="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-193,="" input="" low="" model),="" neutral="" p0851="" switch="" to="" trouble=""></ref.>
P0852	Park/Neutral Switch Input Circuit High (AT Model)	<ref. cir-<br="" dtc="" gd(h4dotc)-194,="" input="" neutral="" p0852="" park="" switch="" to="">CUIT HIGH (AT MODEL), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0852	Neutral Switch Input Circuit High (MT Model)	<ref. circuit<br="" dtc="" gd(h4dotc)-195,="" input="" neutral="" p0852="" switch="" to="">HIGH (MT MODEL), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1152	O2 Sensor Circuit Range/ Performance (Low) (Bank 1 Sensor 1)	<ref. circuit="" dtc="" gd(h4dotc)-196,="" o2="" p1152="" per-<br="" range="" sensor="" to="">FORMANCE (LOW) (BANK 1 SENSOR 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1153	O2 Sensor Circuit Range/ Performance (High) (Bank 1 Sensor 1)	<ref. circuit="" dtc="" gd(h4dotc)-198,="" o2="" p1153="" per-<br="" range="" sensor="" to="">FORMANCE (HIGH) (BANK 1 SENSOR 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1160	Return Spring Failure	<ref. (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" failure,="" gd(h4dotc)-200,="" p1160="" return="" spring="" to="" trouble=""></ref.>
P1400	Fuel Tank Pressure Control Solenoid Valve Circuit Low	<ref. control<br="" dtc="" fuel="" gd(h4dotc)-202,="" p1400="" pressure="" tank="" to="">SOLENOID VALVE CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Cri- teria.></ref.>
P1410	Secondary Air Injection System Switching Valve Stuck Open	<ref. air="" dtc="" gd(h4dotc)-204,="" injection="" p1410="" secondary="" sys-<br="" to="">TEM SWITCHING VALVE STUCK OPEN, Diagnostic Trouble Code (DTC) Detect- ing Criteria.></ref.>
P1418	Secondary Air Injection System Control "A" Circuit Shorted	<ref. air="" dtc="" gd(h4dotc)-205,="" injection="" p1418="" secondary="" sys-<br="" to="">TEM CONTROL "A" CIRCUIT SHORTED, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1420	Fuel Tank Pressure Control Sol. Valve Circuit High	<ref. control<br="" dtc="" fuel="" gd(h4dotc)-206,="" p1420="" pressure="" tank="" to="">SOL. VALVE CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1443	Vent Control Solenoid Valve Function Problem	<ref. control="" dtc="" gd(h4dotc)-208,="" p1443="" solenoid="" to="" valve<br="" vent="">FUNCTION PROBLEM, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1491	Positive Crankcase Ventilation (Blow-by) Function Problem	<ref. crankcase="" dtc="" gd(h4dotc)-210,="" p1491="" positive="" to="" ventilation<br="">(BLOW-BY) FUNCTION PROBLEM, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1518	Starter Switch Circuit Low Input	<ref. (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-212,="" input,="" low="" p1518="" starter="" switch="" to="" trouble=""></ref.>
P1560	Back-up Voltage Circuit Malfunction	<ref. back-up="" circuit="" dtc="" gd(h4dotc)-213,="" mal-<br="" p1560="" to="" voltage="">FUNCTION, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1570	Antenna	<ref. antenna,="" code<br="" diagnostic="" dtc="" gd(h4dotc)-214,="" p1570="" to="" trouble="">(DTC) Detecting Criteria.></ref.>
P1571	Reference Code Incompatibility	<ref. code="" dtc="" gd(h4dotc)-214,="" incompatibil-<br="" p1571="" reference="" to="">ITY, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1572	IMM Circuit Failure (Except Antenna Circuit)	<ref. (dtc)="" (except="" antenna="" circuit="" circuit),="" code="" criteria.="" detecting="" diagnostic="" dtc="" failure="" gd(h4dotc)-214,="" imm="" p1572="" to="" trouble=""></ref.>
P1574	Key Communication Failure	<ref. communication="" dtc="" failure,<br="" gd(h4dotc)-214,="" key="" p1574="" to="">Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1576	EGI Control Module EEPROM	<ref. control="" dtc="" eeprom,<br="" egi="" gd(h4dotc)-214,="" module="" p1576="" to="">Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>

DTC	Item	Note
P1577	IMM Control Module EEPROM	<ref. control="" dtc="" eeprom,<br="" gd(h4dotc)-214,="" imm="" module="" p1577="" to="">Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1602	Control Module Programming Error	<ref. control="" dtc="" gd(h4dotc)-215,="" module="" p1602="" programming<br="" to="">ERROR, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2004	Intake Manifold Runner Control Stuck Open (Bank 1)	<ref. con-<br="" dtc="" gd(h4dotc)-217,="" intake="" manifold="" p2004="" runner="" to="">TROL STUCK OPEN (BANK 1), Diagnostic Trouble Code (DTC) Detecting Crite- ria.></ref.>
P2005	Intake Manifold Runner Control Stuck Open (Bank 2)	<ref. con-<br="" dtc="" gd(h4dotc)-218,="" intake="" manifold="" p2005="" runner="" to="">TROL STUCK OPEN (BANK 2), Diagnostic Trouble Code (DTC) Detecting Crite- ria.></ref.>
P2006	Intake Manifold Runner Control Stuck Closed (Bank 1)	<ref. con-<br="" dtc="" gd(h4dotc)-219,="" intake="" manifold="" p2006="" runner="" to="">TROL STUCK CLOSED (BANK 1), Diagnostic Trouble Code (DTC) Detecting Cri- teria.></ref.>
P2007	Intake Manifold Runner Control Stuck Closed (Bank 2)	<ref. con-<br="" dtc="" gd(h4dotc)-220,="" intake="" manifold="" p2007="" runner="" to="">TROL STUCK CLOSED (BANK 2), Diagnostic Trouble Code (DTC) Detecting Cri- teria.></ref.>
P2008	Intake Manifold Runner Control Circuit / Open (Bank 1)	<ref. con-<br="" dtc="" gd(h4dotc)-221,="" intake="" manifold="" p2008="" runner="" to="">TROL CIRCUIT / OPEN (BANK 1), Diagnostic Trouble Code (DTC) Detecting Cri- teria.></ref.>
P2009	Intake Manifold Runner Control Circuit Low (Bank 1)	<ref. con-<br="" dtc="" gd(h4dotc)-223,="" intake="" manifold="" p2009="" runner="" to="">TROL CIRCUIT LOW (BANK 1), Diagnostic Trouble Code (DTC) Detecting Crite- ria.></ref.>
P2011	Intake Manifold Runner Control Circuit / Open (Bank 2)	<ref. con-<br="" dtc="" gd(h4dotc)-225,="" intake="" manifold="" p2011="" runner="" to="">TROL CIRCUIT / OPEN (BANK 2), Diagnostic Trouble Code (DTC) Detecting Cri- teria.></ref.>
P2012	Intake Manifold Runner Control Circuit Low (Bank 2)	<ref. con-<br="" dtc="" gd(h4dotc)-227,="" intake="" manifold="" p2012="" runner="" to="">TROL CIRCUIT LOW (BANK 2), Diagnostic Trouble Code (DTC) Detecting Crite- ria.></ref.>
P2016	Intake Manifold Runner Position Sensor / Switch Circuit Low (Bank 1)	<ref. dtc="" gd(h4dotc)-229,="" intake="" manifold="" p2016="" posi-<br="" runner="" to="">TION SENSOR / SWITCH CIRCUIT LOW (BANK 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2017	Intake Manifold Runner Position Sensor / Switch Circuit High (Bank 1)	<ref. dtc="" gd(h4dotc)-231,="" intake="" manifold="" p2017="" posi-<br="" runner="" to="">TION SENSOR / SWITCH CIRCUIT HIGH (BANK 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2021	Intake Manifold Runner Position Sensor / Switch Circuit Low (Bank 2)	<ref. dtc="" gd(h4dotc)-233,="" intake="" manifold="" p2021="" posi-<br="" runner="" to="">TION SENSOR / SWITCH CIRCUIT LOW (BANK 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2022	Intake Manifold Runner Position Sensor / Switch Circuit High (Bank 2)	<ref. dtc="" gd(h4dotc)-235,="" intake="" manifold="" p2022="" posi-<br="" runner="" to="">TION SENSOR / SWITCH CIRCUIT HIGH (BANK 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2088	OCV Solenoid Valve Signal A Circuit Open (Bank 1)	<ref. a<br="" dtc="" gd(h4dotc)-237,="" ocv="" p2088="" signal="" solenoid="" to="" valve="">CIRCUIT OPEN (BANK 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2089	OCV Solenoid Valve Signal A Circuit Short (Bank 1)	<ref. a<br="" dtc="" gd(h4dotc)-239,="" ocv="" p2089="" signal="" solenoid="" to="" valve="">CIRCUIT SHORT (BANK 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2092	OCV Solenoid Valve Signal A Circuit Open (Bank 2)	<ref. a<br="" dtc="" gd(h4dotc)-241,="" ocv="" p2092="" signal="" solenoid="" to="" valve="">CIRCUIT OPEN (BANK 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2093	Intake Camshaft Position Actua- tor Control Circuit High (Bank 2)	<ref. actu-<br="" camshaft="" dtc="" gd(h4dotc)-243,="" intake="" p2093="" position="" to="">ATOR CONTROL CIRCUIT HIGH (BANK 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2096	Post Catalyst Fuel Trim System Too Lean Bank 1	<ref. catalyst="" dtc="" fuel="" gd(h4dotc)-245,="" p2096="" post="" system<br="" to="" trim="">TOO LEAN BANK 1, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2097	Post Catalyst Fuel Trim System Too Rich Bank 1	<ref. catalyst="" dtc="" fuel="" gd(h4dotc)-247,="" p2097="" post="" system<br="" to="" trim="">TOO RICH BANK 1, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2101	Throttle Actuator Control Motor Circuit Range/Performance	<ref. actuator="" control<br="" dtc="" gd(h4dotc)-249,="" p2101="" throttle="" to="">MOTOR CIRCUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>

GENERAL DESCRIPTION

DTC	Item	Note
P2102	Throttle Actuator Control Motor Circuit Low	<ref. actuator="" control<br="" dtc="" gd(h4dotc)-251,="" p2102="" throttle="" to="">MOTOR CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2103	Throttle Actuator Control Motor Circuit High	<ref. actuator="" control<br="" dtc="" gd(h4dotc)-253,="" p2103="" throttle="" to="">MOTOR CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2109	Throttle/Pedal Position Sensor "A" Minimum Stop Performance	<ref. dtc="" gd(h4dotc)-255,="" p2109="" pedal="" position="" sen-<br="" throttle="" to="">SOR "A" MINIMUM STOP PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2122	Throttle/Pedal Position Sensor/ Switch "D" Circuit Low Input	<ref. dtc="" gd(h4dotc)-257,="" p2122="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "D" CIRCUIT LOW INPUT, Diagnostic Trouble Code (DTC) Detect- ing Criteria.></ref.>
P2123	Throttle/Pedal Position Sensor/ Switch "D" Circuit High Input	<ref. dtc="" gd(h4dotc)-259,="" p2123="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "D" CIRCUIT HIGH INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2127	Throttle/Pedal Position Sensor/ Switch "E" Circuit Low Input	<ref. dtc="" gd(h4dotc)-261,="" p2127="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "E" CIRCUIT LOW INPUT, Diagnostic Trouble Code (DTC) Detect- ing Criteria.></ref.>
P2128	Throttle/Pedal Position Sensor/ Switch "E" Circuit High Input	<ref. dtc="" gd(h4dotc)-263,="" p2128="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "E" CIRCUIT HIGH INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2135	Throttle/Pedal Position Sensor/ Switch "A"/"B" Voltage Correla- tion	<ref. dtc="" gd(h4dotc)-265,="" p2135="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "A"/"B" VOLTAGE CORRELATION, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2138	Throttle/Pedal Position Sensor/ Switch "D"/"E" Voltage Correla- tion	<ref. dtc="" gd(h4dotc)-267,="" p2138="" pedal="" position="" sen-<br="" throttle="" to="">SOR/SWITCH "D"/"E" VOLTAGE CORRELATION, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2419	Evaporative Emission System Switching Valve Control Circuit Low	<ref. dtc="" emission="" evaporative="" gd(h4dotc)-269,="" p2419="" system<br="" to="">SWITCHING VALVE CONTROL CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2420	Evaporative Emission System Switching Valve Control Circuit High	<ref. dtc="" emission="" evaporative="" gd(h4dotc)-270,="" p2420="" system<br="" to="">SWITCHING VALVE CONTROL CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2431	Secondary Air Injection System Air Flow /Pressure Sensor Circuit Range/Performance	<ref. air="" dtc="" gd(h4dotc)-271,="" injection="" p2431="" secondary="" sys-<br="" to="">TEM AIR FLOW /PRESSURE SENSOR CIRCUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2432	Secondary Air Injection System Air Flow /Pressure Sensor Circuit Low	<ref. air="" dtc="" gd(h4dotc)-272,="" injection="" p2432="" secondary="" sys-<br="" to="">TEM AIR FLOW /PRESSURE SENSOR CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2433	Secondary Air Injection System Air Flow /Pressure Sensor Circuit High	<ref. air="" dtc="" gd(h4dotc)-273,="" injection="" p2433="" secondary="" sys-<br="" to="">TEM AIR FLOW /PRESSURE SENSOR CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2440	Secondary Air Injection System Switching Valve Stuck Open (Bank 1)	<ref. air="" dtc="" gd(h4dotc)-274,="" injection="" p2440="" secondary="" sys-<br="" to="">TEM SWITCHING VALVE STUCK OPEN (BANK 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2441	Secondary Air Injection System Switching Valve Stuck Closed (Bank 1)	<ref. air="" dtc="" gd(h4dotc)-274,="" injection="" p2441="" secondary="" sys-<br="" to="">TEM SWITCHING VALVE STUCK CLOSED (BANK 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2442	Secondary Air Injection System Switching Valve Stuck Open (Bank 2)	<ref. air="" dtc="" gd(h4dotc)-274,="" injection="" p2442="" secondary="" sys-<br="" to="">TEM SWITCHING VALVE STUCK OPEN (BANK 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2443	Secondary Air Injection System Switching Valve Stuck Closed (Bank 2)	<ref. air="" dtc="" gd(h4dotc)-274,="" injection="" p2443="" secondary="" sys-<br="" to="">TEM SWITCHING VALVE STUCK CLOSED (BANK 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2444	Secondary Air Injection System Pump Stuck On	<ref. air="" dtc="" gd(h4dotc)-275,="" injection="" p2444="" secondary="" sys-<br="" to="">TEM PUMP STUCK ON, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>