1. List of Diagnostic Trouble Code (DTC)

A: LIST

DTC	Item	Index
P0011	Intake Camshaft Position - Timing Over-Advanced or System Perfor- mance (Bank 1)	<ref. -<br="" camshaft="" dtc="" gd(h4dotc)-9,="" intake="" p0011="" position="" to="">TIMING OVER-ADVANCED OR SYSTEM PERFORMANCE (BANK 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0021	Intake Camshaft Position - Timing Over-Advanced or System Perfor- mance (Bank 2)	<ref. -<br="" camshaft="" dtc="" gd(h4dotc)-11,="" intake="" p0021="" position="" to="">TIMING OVER-ADVANCED OR SYSTEM PERFORMANCE (BANK 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0030	HO2S Heater Control Circuit (Bank 1 Sensor 1)	<ref. (bank="" (dtc)="" 1="" 1),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-12,="" heater="" ho2s="" p0030="" sensor="" to="" trouble=""></ref.>
P0031	HO2S Heater Control Circuit Low (Bank 1 Sensor 1)	<ref. (bank="" (dtc)="" 1="" 1),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-14,="" heater="" ho2s="" low="" p0031="" sensor="" to="" trouble=""></ref.>
P0032	HO2S Heater Control Circuit High (Bank 1 Sensor 1)	<ref. circuit<br="" control="" dtc="" gd(h4dotc)-16,="" 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. (bank="" (dtc)="" 1="" 2),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-18,="" 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(h4dotc)-20,="" heater="" high="" ho2s="" p0038="" sensor="" to="" trouble=""></ref.>
P0068	MAP/MAF - Throttle Position Correlation	<ref. (dtc)="" -="" code="" correlation,="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-22,="" maf="" map="" p0068="" position="" throttle="" to="" trouble=""></ref.>
P0101	Mass or Volume Air Flow Circuit Range/Performance	<ref. air="" cir-<br="" dtc="" flow="" gd(h4dotc)-24,="" mass="" or="" p0101="" to="" volume="">CUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0102	Mass or Volume Air Flow Circuit Low Input	<ref. air="" cir-<br="" dtc="" flow="" gd(h4dotc)-27,="" mass="" or="" p0102="" to="" volume="">CUIT LOW INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0103	Mass or Volume Air Flow Circuit High Input	<ref. air="" cir-<br="" dtc="" flow="" gd(h4dotc)-29,="" mass="" or="" p0103="" to="" volume="">CUIT HIGH INPUT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0107	Manifold Absolute Pressure/Baro- metric Pressure Circuit Low Input	<ref. absolute="" dtc="" gd(h4dotc)-31,="" manifold="" p0107="" pres-<br="" to="">SURE/BAROMETRIC PRESSURE CIRCUIT LOW INPUT, Diagnostic Trou- ble Code (DTC) Detecting Criteria.></ref.>
P0108	Manifold Absolute Pressure/Baro- metric Pressure Circuit High Input	<ref. absolute="" dtc="" gd(h4dotc)-33,="" manifold="" p0108="" pres-<br="" to="">SURE/BAROMETRIC PRESSURE CIRCUIT HIGH INPUT, Diagnostic Trou- ble Code (DTC) Detecting Criteria.></ref.>
P0111	Intake Air Temperature Sensor 1 Circuit Range/Performance	<ref. air="" dtc="" gd(h4dotc)-35,="" intake="" p0111="" sen-<br="" temperature="" to="">SOR 1 CIRCUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0112	Intake Air Temperature Sensor 1 Circuit Low	<ref. air="" dtc="" gd(h4dotc)-37,="" intake="" p0112="" sen-<br="" temperature="" to="">SOR 1 CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0113	Intake Air Temperature Sensor 1 Circuit High	<ref. air="" dtc="" gd(h4dotc)-39,="" intake="" p0113="" sen-<br="" temperature="" to="">SOR 1 CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0117	Engine Coolant Temperature Circuit Low	<ref. coolant="" dtc="" engine="" gd(h4dotc)-41,="" p0117="" tempera-<br="" to="">TURE CIRCUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0118	Engine Coolant Temperature Circuit High	<ref. coolant="" dtc="" engine="" gd(h4dotc)-43,="" p0118="" tempera-<br="" to="">TURE CIRCUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0122	Throttle/Pedal Position Sensor/ Switch "A" Circuit Low	<ref. "a"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-45,="" low,="" p0122="" pedal="" position="" sensor="" switch="" throttle="" to="" trouble=""></ref.>
P0123	Throttle/Pedal Position Sensor/ Switch "A" Circuit High	<ref. "a"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-47,="" high,="" p0123="" pedal="" position="" sensor="" switch="" throttle="" to="" trouble=""></ref.>

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P0125	Insufficient Coolant Temperature For Closed Loop Fuel Control	<ref. coolant="" dtc="" gd(h4dotc)-49,="" insufficient="" p0125="" tem-<br="" to="">PERATURE FOR CLOSED LOOP FUEL CONTROL, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0126	Insufficient Engine Coolant Temperature For Stable Operation	<ref. (dtc)="" code="" coolant="" criteria.="" detecting="" diagnostic="" dtc="" engine="" for="" gd(h4dotc)-51,="" 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(h4dotc)-53,="" 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(h4dotc)-55,="" low="" o2="" p0131="" sensor="" to="" trouble="" volt-age=""></ref.>
P0132	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	<ref. (bank="" (dtc)="" 1="" 1),="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-57,="" high="" o2="" p0132="" sensor="" to="" trouble="" volt-age=""></ref.>
P0133	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	<ref. circuit="" dtc="" gd(h4dotc)-59,="" 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. (bank="" (dtc)="" 1="" 1),="" activity="" circuit="" code="" criteria.="" detected="" detecting="" diagnostic="" dtc="" gd(h4dotc)-62,="" no="" o2="" p0134="" sensor="" to="" trouble=""></ref.>
P0137	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 2)	<ref. (bank="" (dtc)="" 1="" 2),="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-64,="" low="" o2="" p0137="" sensor="" to="" trouble="" volt-age=""></ref.>
P0138	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	<ref. (bank="" (dtc)="" 1="" 2),="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-66,="" high="" o2="" p0138="" sensor="" to="" trouble="" volt-age=""></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.>
P0171	System Too Lean (Bank 1)	<ref. (bank="" 1),<br="" dtc="" gd(h4dotc)-74,="" lean="" p0171="" system="" to="" too="">Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0172	System Too Rich (Bank 1)	<ref. (bank="" (dtc)="" 1),="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-76,="" 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(h4dotc)-78,="" 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(h4dotc)-81,="" 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(h4dotc)-83,="" high="" input,="" p0183="" sensor="" temperature="" to="" trouble=""></ref.>
P0222	Throttle/Pedal Position Sensor/ Switch "B" Circuit Low	<ref. "b"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-85,="" low,="" p0222="" pedal="" position="" sensor="" switch="" throttle="" to="" trouble=""></ref.>
P0223	Throttle/Pedal Position Sensor/ Switch "B" Circuit High	<ref. "b"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-87,="" high,="" p0223="" pedal="" position="" sensor="" switch="" throttle="" to="" trouble=""></ref.>
P0230	Fuel Pump Primary Circuit	<ref. (dtc)="" circuit,="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4dotc)-89,="" p0230="" primary="" pump="" to="" trouble=""></ref.>
P0244	Turbo/Super Charger Wastegate Solenoid "A" Range/Performance	<ref. "a"="" (dtc)="" charger="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-91,="" p0244="" performance,="" range="" solenoid="" super="" to="" trouble="" turbo="" wastegate=""></ref.>
P0245	Turbo/Super Charger Wastegate Solenoid "A" Low	<ref. "a"="" (dtc)="" charger="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-93,="" low,="" p0245="" solenoid="" super="" to="" trouble="" turbo="" wastegate=""></ref.>

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P0246	Turbo/Super Charger Wastegate Solenoid "A" High	<ref. "a"="" (dtc)="" charger="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-95,="" high,="" p0246="" solenoid="" super="" to="" trouble="" turbo="" wastegate=""></ref.>
P0301	Cylinder 1 Misfire Detected	<ref. 1="" cylinder="" detected,<br="" dtc="" gd(h4dotc)-97,="" misfire="" p0301="" to="">Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0302	Cylinder 2 Misfire Detected	<ref. (dtc)="" 2="" code="" criteria.="" cylinder="" detected,="" detecting="" diagnostic="" dtc="" gd(h4dotc)-102,="" misfire="" p0302="" to="" trouble=""></ref.>
P0303	Cylinder 3 Misfire Detected	<ref. (dtc)="" 3="" code="" criteria.="" cylinder="" detected,="" detecting="" diagnostic="" dtc="" gd(h4dotc)-102,="" misfire="" p0303="" to="" trouble=""></ref.>
P0304	Cylinder 4 Misfire Detected	<ref. (dtc)="" 4="" code="" criteria.="" cylinder="" detected,="" detecting="" diagnostic="" dtc="" gd(h4dotc)-102,="" misfire="" p0304="" to="" trouble=""></ref.>
P0327	Knock Sensor 1 Circuit Low (Bank 1 or Single Sensor)	<ref. (bank="" (dtc)="" 1="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-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(h4dotc)-105,="" high="" knock="" or="" p0328="" sensor="" sensor),="" single="" to="" trouble=""></ref.>
P0335	Crankshaft Position Sensor "A" Circuit	<ref. crankshaft="" dtc="" gd(h4dotc)-107,="" p0335="" position="" sen-<br="" to="">SOR "A" CIRCUIT, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0336	Crankshaft Position Sensor "A" Circuit Range/Performance	<ref. crankshaft="" dtc="" gd(h4dotc)-109,="" p0336="" position="" sen-<br="" to="">SOR "A" CIRCUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></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(h4dotc)-111,="" or="" p0340="" position="" sensor="" sensor),="" single="" to="" trouble=""></ref.>
P0345	Camshaft Position Sensor "A" Circuit (Bank 2)	<ref. "a"="" (bank="" (dtc)="" 2),="" camshaft="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-113,="" p0345="" position="" sensor="" to="" trouble=""></ref.>
P0420	Catalyst System Efficiency Below Threshold (Bank 1)	<ref. (bank="" (dtc)="" 1),="" below="" catalyst="" code="" criteria.="" detecting="" diagnostic="" dtc="" efficiency="" gd(h4dotc)-113,="" p0420="" system="" threshold="" to="" trouble=""></ref.>
P0442	Evaporative Emission Control System Leak Detected (Small Leak)	<ref. (dtc)="" (small="" code="" control="" criteria.="" detected="" detecting="" diagnostic="" dtc="" emission="" evaporative="" gd(h4dotc)-116,="" 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(h4dotc)-131,="" 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(h4dotc)-133,="" 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(h4dotc)-135,="" 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(h4dotc)-137,="" input,="" low="" p0452="" pressure="" sensor="" system="" to="" trouble=""></ref.>
P0453	Evaporative Emission Control System Pressure Sensor High Input	<ref. (dtc)="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" emission="" evaporative="" gd(h4dotc)-139,="" high="" input,="" p0453="" pressure="" sensor="" system="" to="" trouble=""></ref.>
P0456	Evaporative Emission Control System Leak Detected (Very Small Leak)	<ref. (dtc)="" (very="" code="" control="" criteria.="" detected="" detecting="" diagnostic="" dtc="" emission="" evaporative="" gd(h4dotc)-140,="" leak="" leak),="" p0456="" small="" system="" to="" trouble=""></ref.>
P0457	Evaporative Emission Control System Leak Detected (Fuel Cap Loose/Off)	<ref. (dtc)="" (fuel="" cap="" code="" control="" criteria.="" detected="" detecting="" diagnostic="" dtc="" emission="" evaporative="" gd(h4dotc)-140,="" leak="" loose="" off),="" p0457="" system="" to="" trouble=""></ref.>
P0458	Evaporative Emission System Purge Control Valve Circuit Low	<ref. (dtc)="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" emission="" evaporative="" gd(h4dotc)-141,="" low,="" p0458="" purge="" system="" to="" trouble="" valve=""></ref.>

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P0459	Evaporative Emission System Purge Control Valve Circuit High	<ref. (dtc)="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" emission="" evaporative="" gd(h4dotc)-143,="" high,="" p0459="" purge="" system="" to="" trouble="" valve=""></ref.>
P0461	Fuel Level Sensor "A" Circuit Range/Performance	<ref. "a"="" cir-<br="" dtc="" fuel="" gd(h4dotc)-145,="" level="" p0461="" sensor="" to="">CUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0462	Fuel Level Sensor "A" Circuit Low	<ref. "a"="" (dtc)="" cir-cuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4dotc)-147,="" level="" low,="" p0462="" sensor="" to="" trouble=""></ref.>
P0463	Fuel Level Sensor "A" Circuit High	<ref. "a"="" cir-<br="" dtc="" fuel="" gd(h4dotc)-149,="" level="" p0463="" sensor="" to="">CUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0464	Fuel Level Sensor Circuit Intermittent	<ref. (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4dotc)-151,="" intermittent,="" level="" p0464="" sensor="" to="" trouble=""></ref.>
P0483	Fan Rationality Check	<ref. (dtc)="" check,="" code="" criteria.="" detecting="" diagnostic="" dtc="" fan="" gd(h4dotc)-154,="" p0483="" rationality="" to="" trouble=""></ref.>
P0500	Vehicle Speed Sensor "A"	<ref. "a",="" (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-155,="" 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(h4dotc)-157,="" 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(h4dotc)-159,="" higher="" idle="" p0507="" rpm="" system="" than="" to="" trouble=""></ref.>
P0512	Starter Request Circuit	<ref. (dtc)="" circuit,="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-161,="" p0512="" request="" starter="" to="" trouble=""></ref.>
P0513	Incorrect Immobilizer Key	<ref. (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-162,="" immobilizer="" incorrect="" key,="" p0513="" to="" trouble=""></ref.>
P0519	Idle Air Control System Performance	<ref. air="" control="" dtc="" gd(h4dotc)-163,="" idle="" p0519="" system<br="" to="">PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0545	Exhaust Gas Temperature Sensor Circuit Low (Bank 1 Sensor 1)	<ref. (bank="" (dtc)="" 1="" 1),="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" exhaust="" gas="" gd(h4dotc)-164,="" low="" p0545="" sensor="" temperature="" to="" trouble=""></ref.>
P0546	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 1)	<ref. (bank="" (dtc)="" 1="" 1),="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" exhaust="" gas="" gd(h4dotc)-166,="" high="" p0546="" sensor="" temperature="" to="" trouble=""></ref.>
P0600	Serial Communication Link	<ref. (dtc)="" code="" communication="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-168,="" link,="" p0600="" serial="" to="" trouble=""></ref.>
P0604	Internal Control Module Random Access Memory (RAM) Error	<ref. control="" dtc="" gd(h4dotc)-169,="" internal="" module<br="" p0604="" to="">RANDOM 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)-171,="" internal="" module<br="" p0605="" to="">READ ONLY MEMORY (ROM) ERROR, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0607	Control Module Performance	<ref. control="" dtc="" gd(h4dotc)-172,="" module="" p0607="" perfor-<br="" to="">MANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0638	Throttle Actuator Control Range/ Performance (Bank 1)	<ref. (bank="" (dtc)="" 1),="" actuator="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-175,="" p0638="" performance="" range="" throttle="" to="" trouble=""></ref.>
P0691	Fan 1 Control Circuit Low	<ref. 1="" circuit="" control="" dtc="" fan="" gd(h4dotc)-178,="" low,<br="" p0691="" to="">Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0692	Fan 1 Control Circuit High	<ref. 1="" circuit="" control="" dtc="" fan="" gd(h4dotc)-179,="" high,<br="" p0692="" to="">Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P0700	Transmission Control System (MIL Request)	<ref. (dtc)="" (mil="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-180,="" 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(h4dotc)-181,="" input="" low="" model),="" neutral="" p0851="" park="" switch="" to="" trouble=""></ref.>

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P0851	Neutral Switch Input Circuit Low (MT Model)	<ref. cir-<br="" dtc="" gd(h4dotc)-182,="" input="" neutral="" p0851="" switch="" to="">CUIT LOW (MT MODEL), Diagnostic Trouble Code (DTC) Detecting Crite- ria.></ref.>
P0852	Park/Neutral Switch Input Circuit High (AT Model)	<ref. (at="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-183,="" high="" input="" model),="" neutral="" p0852="" park="" switch="" to="" trouble=""></ref.>
P0852	Neutral Switch Input Circuit High (Mt Model)	<ref. cir-<br="" dtc="" gd(h4dotc)-184,="" input="" neutral="" p0852="" switch="" to="">CUIT HIGH (MT MODEL), Diagnostic Trouble Code (DTC) Detecting Crite- ria.></ref.>
P1152	O2 Sensor Circuit Range/Performance (Low) (Bank1 Sensor1)	<ref. <br="" circuit="" dtc="" gd(h4dotc)-185,="" o2="" p1152="" range="" sensor="" to="">PERFORMANCE (LOW) (BANK1 SENSOR1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1153	O2 Sensor Circuit Range/Performance (High) (Bank1 Sensor1)	<ref. <br="" circuit="" dtc="" gd(h4dotc)-187,="" o2="" p1153="" range="" sensor="" to="">PERFORMANCE (HIGH) (BANK1 SENSOR1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1160	Return Spring Failure	<ref. (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" failure,="" gd(h4dotc)-189,="" p1160="" return="" spring="" to="" trouble=""></ref.>
P1301	Misfire Detected (High Temperature Exhaust Gas)	<ref. (dtc)="" (high="" code="" criteria.="" detected="" detecting="" diagnostic="" dtc="" exhaust="" gas),="" gd(h4dotc)-191,="" misfire="" p1301="" tem-perature="" to="" trouble=""></ref.>
P1312	Exhaust Gas Temperature Sensor Malfunction	<ref. (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" exhaust="" gas="" gd(h4dotc)-193,="" malfunction,="" p1312="" sensor="" temperature="" to="" trouble=""></ref.>
P1400	Fuel Tank Pressure Control Sole- noid Valve Circuit Low	<ref. (dtc)="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4dotc)-194,="" 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(h4dotc)-196,="" 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(h4dotc)-198,="" p1443="" problem,="" solenoid="" to="" trouble="" valve="" vent=""></ref.>
P1491	Positive Crankcase Ventilation (Blow-by) Function Problem	<ref. crankcase="" dtc="" gd(h4dotc)-200,="" p1491="" positive="" to="" venti-<br="">LATION (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)-202,="" input,="" low="" p1518="" starter="" switch="" to="" trouble=""></ref.>
P1544	Exhaust Gas Temperature Too High	<ref. dtc="" exhaust="" gas="" gd(h4dotc)-203,="" p1544="" temperature<br="" to="">TOO HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1560	Back-up Voltage Circuit Malfunction	<ref. (dtc)="" back-up="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-204,="" malfunction,="" p1560="" to="" trouble="" voltage=""></ref.>
P1570	Antenna	<ref. (dtc)="" antenna,="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-205,="" p1570="" to="" trouble=""></ref.>
P1571	Reference Code Incompatibility	<ref. (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-205,="" incompati-bility,="" 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(h4dotc)-205,="" imm="" p1572="" to="" trouble=""></ref.>
P1574	Key Communication Failure	<ref. (dtc)="" code="" communication="" criteria.="" detecting="" diagnostic="" dtc="" failure,="" gd(h4dotc)-205,="" key="" p1574="" to="" trouble=""></ref.>
P1576	EGI Control Module EEPROM	<ref. control="" dtc="" egi="" gd(h4dotc)-205,="" module<br="" p1576="" to="">EEPROM, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P1577	IMM Control Module EEPROM	<ref. (dtc)="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" eeprom,="" gd(h4dotc)-205,="" imm="" module="" p1577="" to="" trouble=""></ref.>
P1578	Meter Failure	<ref. (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" failure,="" gd(h4dotc)-205,="" meter="" p1578="" to="" trouble=""></ref.>

DTC	Item	Index
P2004	Intake Manifold Runner Control Stuck Open (Bank 1)	<ref. (bank="" (dtc)="" 1),="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-206,="" intake="" manifold="" open="" p2004="" runner="" stuck="" to="" trouble=""></ref.>
P2005	Intake Manifold Runner Control Stuck Open (Bank 2)	<ref. (bank="" (dtc)="" 2),="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-207,="" intake="" manifold="" open="" p2005="" runner="" stuck="" to="" trouble=""></ref.>
P2006	Intake Manifold Runner Control Stuck Closed (Bank 1)	<ref. (bank="" (dtc)="" 1),="" closed="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-208,="" intake="" manifold="" p2006="" runner="" stuck="" to="" trouble=""></ref.>
P2007	Intake Manifold Runner Control Stuck Closed (Bank 2)	<ref. (bank="" (dtc)="" 2),="" closed="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-209,="" intake="" manifold="" p2007="" runner="" stuck="" to="" trouble=""></ref.>
P2008	Intake Manifold Runner Control Circuit / Open (Bank 1)	<ref. (bank="" (dtc)="" 1),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-210,="" intake="" manifold="" open="" p2008="" runner="" to="" trouble=""></ref.>
P2009	Intake Manifold Runner Control Circuit Low (Bank 1)	<ref. (bank="" (dtc)="" 1),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-212,="" intake="" low="" manifold="" p2009="" runner="" to="" trouble=""></ref.>
P2011	Intake Manifold Runner Control Circuit / Open (Bank 2)	<ref. (bank="" (dtc)="" 2),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-214,="" intake="" manifold="" open="" p2011="" runner="" to="" trouble=""></ref.>
P2012	Intake Manifold Runner Control Circuit Low (Bank 2)	<ref. (bank="" (dtc)="" 2),="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-216,="" intake="" low="" manifold="" p2012="" runner="" to="" trouble=""></ref.>
P2016	Intake Manifold Runner Position Sensor / Switch Circuit Low (Bank 1)	<ref. (bank="" (dtc)="" 1),="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-218,="" intake="" low="" manifold="" p2016="" position="" runner="" sensor="" switch="" to="" trouble=""></ref.>
P2017	Intake Manifold Runner Position Sensor / Switch Circuit High (Bank 1)	<ref. dtc="" gd(h4dotc)-220,="" intake="" manifold="" p2017="" runner<br="" to="">POSITION 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)-222,="" intake="" manifold="" p2021="" runner<br="" to="">POSITION SENSOR / SWITCH CIRCUIT LOW (BANK 2), Diagnostic Trou- ble Code (DTC) Detecting Criteria.></ref.>
P2022	Intake Manifold Runner Position Sensor / Switch Circuit High (Bank 2)	<ref. dtc="" gd(h4dotc)-224,="" intake="" manifold="" p2022="" runner<br="" to="">POSITION SENSOR / SWITCH CIRCUIT HIGH (BANK 2), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2088	Intake Camshaft Position Actuator Control Circuit Low (Bank 1)	<ref. (bank="" (dtc)="" 1),="" actuator="" camshaft="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-225,="" intake="" low="" p2088="" position="" to="" trouble=""></ref.>
P2089	Intake Camshaft Position Actuator Control Circuit High (Bank 1)	<ref. camshaft="" dtc="" gd(h4dotc)-227,="" intake="" p2089="" position<br="" to="">ACTUATOR CONTROL CIRCUIT HIGH (BANK 1), Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2092	Intake Camshaft Position Actuator Control Circuit Low (Bank 2)	<ref. (bank="" (dtc)="" 2),="" actuator="" camshaft="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-228,="" intake="" low="" p2092="" position="" to="" trouble=""></ref.>
P2093	Intake Camshaft Position Actuator Control Circuit High (Bank 2)	<ref. (bank="" (dtc)="" 2),="" actuator="" camshaft="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-228,="" high="" intake="" p2093="" position="" to="" trouble=""></ref.>
P2096	Post Catalyst Fuel Trim System Too Lean Bank 1	<ref. (dtc)="" 1,="" bank="" catalyst="" code="" criteria.="" detecting="" diagnostic="" dtc="" fuel="" gd(h4dotc)-229,="" 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(h4dotc)-231,="" 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(h4dotc)-233,="" motor="" p2101="" performance,="" range="" throttle="" to="" trouble=""></ref.>

List of Diagnostic Trouble Code (DTC)

GENERAL DESCRIPTION

DTC	Item	Index
P2102	Throttle Actuator Control Motor Circuit Low	<ref. (dtc)="" actuator="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-235,="" low,="" motor="" p2102="" throttle="" to="" trouble=""></ref.>
P2103	Throttle Actuator Control Motor Circuit High	<ref. (dtc)="" actuator="" circuit="" code="" control="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-237,="" high,="" motor="" p2103="" throttle="" to="" trouble=""></ref.>
P2109	Throttle/Pedal Position Sensor "A" Minimum Stop Performance	<ref. "a"="" (dtc)="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-239,="" minimum="" p2109="" pedal="" performance,="" position="" sensor="" stop="" throttle="" to="" trouble=""></ref.>
P2122	Throttle/Pedal Position Sensor/ Switch "D" Circuit Low Input	<ref. "d"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-241,="" input,="" low="" p2122="" pedal="" position="" sensor="" switch="" throttle="" to="" trouble=""></ref.>
P2123	Throttle/Pedal Position Sensor/ Switch "D" Circuit High Input	<ref. "d"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-243,="" high="" input,="" p2123="" pedal="" position="" sensor="" switch="" throttle="" to="" trouble=""></ref.>
P2127	Throttle/Pedal Position Sensor/ Switch "E" Circuit Low Input	<ref. "e"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-245,="" input,="" low="" p2127="" pedal="" position="" sensor="" switch="" throttle="" to="" trouble=""></ref.>
P2128	Throttle/Pedal Position Sensor/ Switch "E" Circuit High Input	<ref. "e"="" (dtc)="" circuit="" code="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-247,="" high="" input,="" p2128="" pedal="" position="" sensor="" switch="" throttle="" to="" trouble=""></ref.>
P2135	Throttle/Pedal Position Sensor/ Switch "A"/"B" Voltage Correlation	<ref. "a"="" "b"="" (dtc)="" code="" correlation,="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-249,="" p2135="" pedal="" position="" sensor="" switch="" throttle="" to="" trouble="" voltage=""></ref.>
P2138	Throttle/Pedal Position Sensor/ Switch "D"/"E" Voltage Correlation	<ref. "d"="" "e"="" (dtc)="" code="" correlation,="" criteria.="" detecting="" diagnostic="" dtc="" gd(h4dotc)-251,="" p2138="" pedal="" position="" sensor="" switch="" throttle="" to="" trouble="" voltage=""></ref.>
P2227	Barometric Pressure Circuit Range/Performance	<ref. barometric="" cir-<br="" dtc="" gd(h4dotc)-253,="" p2227="" pressure="" to="">CUIT RANGE/PERFORMANCE, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2228	Barometric Pressure Circuit Low	<ref. barometric="" cir-<br="" dtc="" gd(h4dotc)-254,="" p2228="" pressure="" to="">CUIT LOW, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>
P2229	Barometric Pressure Circuit High	<ref. barometric="" cir-<br="" dtc="" gd(h4dotc)-255,="" p2229="" pressure="" to="">CUIT HIGH, Diagnostic Trouble Code (DTC) Detecting Criteria.></ref.>