17.List of Diagnostic Trouble Code (DTC)

A: LIST

DTC	Item	Index
P0011	A Camshaft Position-Timing Over- Advanced or System Performance (Bank 1)	<ref. "a"="" (bank="" (dtc).="" 1)="" camshaft="" code="" diagnostic="" dtc="" en(h4dotc)-75,="" or="" over-advanced="" p0011="" performance="" position-tim-ing="" procedure="" system="" to="" trouble="" with="" —="" —,=""></ref.>
P0021	A Camshaft Position-Timing Over- advanced or System Performance (Bank 2)	<ref. "a"="" (bank="" (dtc).="" 2)="" camshaft="" code="" diagnostic="" dtc="" en(h4dotc)-76,="" or="" over-advanced="" p0021="" performance="" position-tim-ing="" procedure="" system="" to="" trouble="" with="" —="" —,=""></ref.>
P0030	HO2S Heater Control Circuit (Bank 1 Sensor 1)	<ref. cir-<br="" control="" dtc="" en(h4dotc)-77,="" heater="" ho2s="" p0030="" to="" —="">CUIT (BANK 1 SENSOR 1) —, Diagnostic Procedure with Diagnostic Trou- ble Code (DTC).></ref.>
P0031	HO2S Heater Control Circuit Low (Bank 1 Sensor 1)	<ref. cir-<br="" control="" dtc="" en(h4dotc)-79,="" heater="" ho2s="" p0031="" to="" —="">CUIT LOW (BANK 1 SENSOR 1) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0032	HO2S Heater Control Circuit High (Bank 1 Sensor 1)	<ref. cir-<br="" control="" dtc="" en(h4dotc)-82,="" heater="" ho2s="" p0032="" to="" —="">CUIT HIGH (BANK 1 SENSOR 1) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0037	HO2S Heater Control Circuit Low (Bank 1 Sensor 2)	<ref. cir-<br="" control="" dtc="" en(h4dotc)-84,="" heater="" ho2s="" p0037="" to="" —="">CUIT LOW (BANK 1 SENSOR 2) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0038	HO2S Heater Control Circuit High (Bank 1 Sensor 2)	<ref. cir-<br="" control="" dtc="" en(h4dotc)-87,="" heater="" ho2s="" p0038="" to="" —="">CUIT HIGH (BANK 1 SENSOR 2) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0068	Manifold Absolute Pressure/Barometric Pressure Circuit Range/Performance	<ref. absolute="" dtc="" en(h4dotc)-89,="" manifold="" p0068="" pres-<br="" to="" —="">SURE/BAROMETRIC PRESSURE CIRCUIT RANGE/PERFORMANCE —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0101	Mass or Volume Air Flow Circuit Range/Performance	<ref. (dtc).="" air="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-91,="" flow="" 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(h4dotc)-93,="" flow="" 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(h4dotc)-96,="" flow="" high="" input="" mass="" or="" p0103="" procedure="" to="" trouble="" volume="" with="" —="" —,=""></ref.>
P0107	Manifold Absolute Pressure/Barometric Pressure Circuit Low Input	<ref. absolute="" dtc="" en(h4dotc)-98,="" manifold="" p0107="" pres-<br="" to="" —="">SURE/BAROMETRIC PRESSURE CIRCUIT LOW INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0108	Manifold Absolute Pressure/Barometric Pressure Circuit High Input	<ref. absolute="" dtc="" en(h4dotc)-100,="" manifold="" p0108="" pres-<br="" to="" —="">SURE/BAROMETRIC PRESSURE CIRCUIT HIGH INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0111	Intake Air Temperature Circuit Range/Performance	<ref. (dtc).="" air="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-102,="" intake="" p0111="" performance="" procedure="" range="" temperature="" to="" trouble="" with="" —="" —,=""></ref.>
P0112	Intake Air Temperature Circuit Low Input	<ref. (dtc).="" air="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-104,="" input="" intake="" low="" p0112="" procedure="" temperature="" to="" trouble="" with="" —="" —,=""></ref.>
P0113	Intake Air Temperature Circuit High Input	<ref. (dtc).="" air="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-106,="" high="" input="" intake="" p0113="" procedure="" temperature="" to="" trouble="" with="" —="" —,=""></ref.>
P0117	Engine Coolant Temperature Circuit Low Input	<ref. (dtc).="" circuit="" code="" coolant="" diagnostic="" dtc="" en(h4dotc)-109,="" engine="" input="" low="" p0117="" procedure="" temperature="" to="" trouble="" with="" —="" —,=""></ref.>
P0118	Engine Coolant Temperature Circuit High Input	<ref. (dtc).="" circuit="" code="" coolant="" diagnostic="" dtc="" en(h4dotc)-111,="" engine="" high="" input="" p0118="" procedure="" temperature="" to="" trouble="" with="" —="" —,=""></ref.>

DTC	Item	Index
P0122	Throttle/Pedal Position Sensor/ Switch "A" Circuit Low Input	<ref. "a"="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-114,="" input="" low="" p0122="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" with="" —="" —,=""></ref.>
P0123	Throttle/Pedal Position Sensor/ Switch "A" Circuit High Input	<ref. dtc="" en(h4dotc)-117,="" p0123="" pedal="" position<br="" throttle="" to="" —="">SENSOR/SWITCH "A" CIRCUIT HIGH INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0125	Insufficient Coolant Temperature for Closed Loop Fuel Control	<ref. coolant="" dtc="" en(h4dotc)-121,="" insufficient="" p0125="" tem-<br="" to="" —="">PERATURE FOR CLOSED LOOP FUEL CONTROL —, Diagnostic Proce- dure with Diagnostic Trouble Code (DTC).></ref.>
P0128	Coolant Thermostat (Coolant Temperature Below Thermostat Regulating Temperature)	<ref. coolant="" dtc="" en(h4dotc)-123,="" p0128="" thermostat<br="" to="" —="">(COOLANT TEMPERATURE BELOW THERMOSTAT REGULATING TEM- PERATURE) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0129	Atmospheric Pressure Sensor Circuit Range/Performance	<ref. atmospheric="" dtc="" en(h4dotc)-124,="" p0129="" pressure<br="" to="" —="">SENSOR CIRCUIT RANGE/PERFORMANCE —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0131	O ₂ Sensor Circuit Low Voltage (Bank 1 Sensor 1)	<ref. dtc="" en(h4dotc)-125,="" o<sub="" p0131="" to="" —="">2 SENSOR CIRCUIT LOW VOLTAGE (BANK 1 SENSOR 1) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0132	O ₂ Sensor Circuit High Voltage (Bank 1 Sensor 1)	<ref. dtc="" en(h4dotc)-127,="" o<sub="" p0132="" to="" —="">2 SENSOR CIRCUIT HIGH VOLTAGE (BANK 1 SENSOR 1) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0133	O ₂ Sensor Circuit Slow Response (Bank 1 Sensor 1)	<ref. dtc="" en(h4dotc)-129,="" o<sub="" p0133="" to="" —="">2 SENSOR CIRCUIT SLOW RESPONSE (BANK 1 SENSOR 1) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0134	O ₂ Sensor Circuit No Activity Detected (Bank 1 Sensor 1)	<ref. dtc="" en(h4dotc)-131,="" o<sub="" p0134="" to="" —="">2 SENSOR CIRCUIT NO ACTIVITY DETECTED (BANK 1 SENSOR 1) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0137	O ₂ Sensor Circuit Low Voltage (Bank 1 Sensor 2)	<ref. dtc="" en(h4dotc)-133,="" o<sub="" p0137="" to="" —="">2 SENSOR CIRCUIT LOW VOLTAGE (BANK 1 SENSOR 2) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0138	O ₂ Sensor Circuit High Voltage (Bank 1 Sensor 2)	<ref. dtc="" en(h4dotc)-136,="" o<sub="" p0138="" to="" —="">2 SENSOR CIRCUIT HIGH VOLTAGE (BANK 1 SENSOR 2) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0139	O ₂ Sensor Circuit Slow Response (Bank 1 Sensor 2)	<ref. dtc="" en(h4dotc)-139,="" o<sub="" p0139="" to="" —="">2 SENSOR CIRCUIT SLOW RESPONSE (BANK 1 SENSOR 2) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0171	System too Lean (Bank 1)	<ref. (bank="" (dtc).="" 1)="" code="" diagnostic="" dtc="" en(h4dotc)-141,="" lean="" p0171="" procedure="" system="" to="" too="" trouble="" with="" —="" —,=""></ref.>
P0172	System too Rich (Bank 1)	<ref. (bank="" (dtc).="" 1)="" code="" diagnostic="" dtc="" en(h4dotc)-142,="" p0172="" procedure="" rich="" system="" to="" too="" trouble="" with="" —="" —,=""></ref.>
P0181	Fuel Temperature Sensor "A" Circuit Range/Performance	<ref. dtc="" en(h4dotc)-145,="" fuel="" p0181="" sen-<br="" temperature="" to="" —="">SOR "A" CIRCUIT RANGE/PERFORMANCE —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0182	Fuel Temperature Sensor "A" Circuit Low Input	<ref. dtc="" en(h4dotc)-147,="" fuel="" p0182="" sen-<br="" temperature="" to="" —="">SOR "A" CIRCUIT LOW INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0183	Fuel Temperature Sensor "A" Circuit High Input	<ref. dtc="" en(h4dotc)-149,="" fuel="" p0183="" sen-<br="" temperature="" to="" —="">SOR "A" CIRCUIT HIGH INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0222	Throttle/Pedal Position Sensor/ Switch "B" Circuit Low Input	<ref. "b"="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-152,="" input="" low="" p0222="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" with="" —="" —,=""></ref.>
P0223	Throttle/Pedal Position Sensor/ Switch "B" Circuit High Input	<ref. dtc="" en(h4dotc)-155,="" p0223="" pedal="" position<br="" throttle="" to="" —="">SENSOR/SWITCH "B" CIRCUIT HIGH INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>

DTC	Item	Index
P0230	Fuel Pump Primary Circuit	<ref. cir-<br="" dtc="" en(h4dotc)-159,="" fuel="" p0230="" primary="" pump="" to="" —="">CUIT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0244	Turbo/Super Charger Wastegate Solenoid "A" Range/Performance	<ref. "a"="" (dtc).="" charger="" code="" diagnostic="" dtc="" en(h4dotc)-162,="" p0244="" performance="" procedure="" range="" solenoid="" super="" to="" trouble="" turbo="" wastegate="" with="" —="" —,=""></ref.>
P0245	Turbo/Super Charger Wastegate Solenoid "A" Low	<ref. "a"="" (dtc).="" charger="" code="" diagnostic="" dtc="" en(h4dotc)-164,="" low="" p0245="" procedure="" solenoid="" super="" to="" trouble="" turbo="" wastegate="" with="" —="" —,=""></ref.>
P0246	Turbo/Super Charger Wastegate Solenoid "A" High	<ref. "a"="" (dtc).="" charger="" code="" diagnostic="" dtc="" en(h4dotc)-166,="" high="" p0246="" procedure="" solenoid="" super="" to="" trouble="" turbo="" wastegate="" with="" —="" —,=""></ref.>
P0301	Cylinder 1 Misfire Detected	<ref. (dtc).="" 1="" code="" cylinder="" detected="" diagnostic="" dtc="" en(h4dotc)-168,="" misfire="" p0301="" procedure="" to="" trouble="" with="" —="" —,=""></ref.>
P0302	Cylinder 2 Misfire Detected	<ref. (dtc).="" 2="" code="" cylinder="" detected="" diagnostic="" dtc="" en(h4dotc)-168,="" misfire="" p0302="" procedure="" to="" trouble="" with="" —="" —,=""></ref.>
P0303	Cylinder 3 Misfire Detected	<ref. (dtc).="" 3="" code="" cylinder="" detected="" diagnostic="" dtc="" en(h4dotc)-168,="" misfire="" p0303="" procedure="" to="" trouble="" with="" —="" —,=""></ref.>
P0304	Cylinder 4 Misfire Detected	<ref. (dtc).="" 4="" code="" cylinder="" detected="" diagnostic="" dtc="" en(h4dotc)-169,="" misfire="" p0304="" procedure="" to="" trouble="" with="" —="" —,=""></ref.>
P0327	Knock Sensor 1 Circuit Low Input (Bank 1 or Single Sensor)	<ref. (bank="" (dtc).="" 1="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-174,="" input="" knock="" low="" or="" p0327="" procedure="" sensor="" sensor)="" single="" to="" trouble="" with="" —="" —,=""></ref.>
P0328	Knock Sensor 1 Circuit High Input (Bank 1 or Single Sensor)	<ref. (bank="" (dtc).="" 1="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-176,="" high="" input="" knock="" or="" p0328="" procedure="" sensor="" sensor)="" single="" to="" trouble="" with="" —="" —,=""></ref.>
P0335	Crankshaft Position Sensor "A" Circuit	<ref. crankshaft="" dtc="" en(h4dotc)-178,="" p0335="" position="" sen-<br="" to="" —="">SOR "A" CIRCUIT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0336	Crankshaft Position Sensor "A" Circuit Range/Performance	<ref. crankshaft="" dtc="" en(h4dotc)-180,="" p0336="" position="" sen-<br="" to="" —="">SOR "A" CIRCUIT RANGE/PERFORMANCE —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0340	Camshaft Position Sensor "A" Circuit (Bank 1 or Single Sensor)	<ref. camshaft="" dtc="" en(h4dotc)-182,="" p0340="" position="" sen-<br="" to="" —="">SOR "A" CIRCUIT (BANK 1 OR SINGLE SENSOR) —, Diagnostic Proce- dure with Diagnostic Trouble Code (DTC).></ref.>
P0345	Camshaft Position Sensor "A" Circuit (Bank 2)	<ref. "a"="" (bank="" (dtc).="" 2)="" camshaft="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-184,="" p0345="" position="" procedure="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P0420	Catalyst System Efficiency Below Threshold (Bank 1)	<ref. catalyst="" dtc="" effi-<br="" en(h4dotc)-186,="" p0420="" system="" to="" —="">CIENCY BELOW THRESHOLD (BANK 1) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0442	Evaporative Emission Control System Leak Detected (small Leak)	<ref. dtc="" emission<br="" en(h4dotc)-188,="" evaporative="" p0442="" to="" —="">CONTROL SYSTEM LEAK DETECTED (SMALL LEAK) —, Diagnostic Pro- cedure with Diagnostic Trouble Code (DTC).></ref.>
P0447	Evaporative Emission Control System Vent Control Circuit Open	<ref. (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" emission="" en(h4dotc)-192,="" evaporative="" open="" p0447="" procedure="" system="" to="" trouble="" vent="" with="" —="" —,=""></ref.>
P0448	Evaporative Emission Control System Vent Control Circuit Shorted	<ref. (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" emission="" en(h4dotc)-195,="" evaporative="" p0448="" procedure="" shorted="" system="" to="" trouble="" vent="" with="" —="" —,=""></ref.>
P0451	Evaporative Emission Control System Pressure Sensor Range/Performance	<ref. (dtc).="" code="" control="" diagnostic="" dtc="" emission="" en(h4dotc)-197,="" evaporative="" p0451="" performance="" pressure="" procedure="" range="" sensor="" system="" to="" trouble="" with="" —="" —,=""></ref.>
P0452	Evaporative Emission Control System Pressure Sensor Low Input	<ref. (dtc).="" code="" control="" diagnostic="" dtc="" emission="" en(h4dotc)-199,="" evaporative="" input="" low="" p0452="" pressure="" procedure="" sensor="" system="" to="" trouble="" with="" —="" —,=""></ref.>

DTC	Item	Index
P0453	Evaporative Emission Control System Pressure Sensor High Input	<ref. dtc="" emission<br="" en(h4dotc)-202,="" evaporative="" p0453="" to="" —="">CONTROL SYSTEM PRESSURE SENSOR HIGH INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0456	Evaporative Emission Control System Leak Detected (Very Small Leak)	<ref. dtc="" emission<br="" en(h4dotc)-205,="" evaporative="" p0456="" to="" —="">CONTROL SYSTEM LEAK DETECTED (VERY SMALL LEAK) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0457	Evaporative Emission Control System Leak Detected (Fuel Cap Loose/Off)	<ref. dtc="" emission<br="" en(h4dotc)-209,="" evaporative="" p0457="" to="" —="">CONTROL SYSTEM LEAK DETECTED (FUEL CAP LOOSE/OFF) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0458	Evaporative Emission Control System Purge Control Valve Circuit Low	<ref. dtc="" emission<br="" en(h4dotc)-213,="" evaporative="" p0458="" to="" —="">CONTROL SYSTEM PURGE CONTROL VALVE CIRCUIT LOW —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0459	Evaporative Emission Control System Purge Control Valve Circuit High	<ref. dtc="" emission<br="" en(h4dotc)-215,="" evaporative="" p0459="" to="" —="">CONTROL SYSTEM PURGE CONTROL VALVE CIRCUIT HIGH —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0461	Fuel Level Sensor Circuit Range/Performance	<ref. cir-<br="" dtc="" en(h4dotc)-217,="" fuel="" level="" p0461="" sensor="" to="" —="">CUIT RANGE/PERFORMANCE —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0462	Fuel Level Sensor Circuit Low Input	<ref. (dtc).="" cir-cuit="" code="" diagnostic="" dtc="" en(h4dotc)-220,="" fuel="" input="" level="" low="" p0462="" procedure="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P0463	Fuel Level Sensor Circuit High Input	<ref. cir-<br="" dtc="" en(h4dotc)-224,="" fuel="" level="" p0463="" sensor="" to="" —="">CUIT HIGH INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0464	Fuel Level Sensor Circuit Intermittent	<ref. cir-<br="" dtc="" en(h4dotc)-228,="" fuel="" level="" p0464="" sensor="" to="" —="">CUIT INTERMITTENT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0483	Cooling Fan Rationality Check	<ref. (dtc).="" check="" code="" cooling="" diagnostic="" dtc="" en(h4dotc)-231,="" fan="" p0483="" procedure="" rationality="" to="" trouble="" with="" —="" —,=""></ref.>
P0502	Vehicle Speed Sensor Circuit Low Input	<ref. (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-234,="" input="" low="" p0502="" procedure="" sensor="" speed="" to="" trouble="" vehicle="" with="" —="" —,=""></ref.>
P0503	Vehicle Speed Sensor Intermittent/ Erratic/High	<ref. (dtc).="" code="" diagnostic="" dtc="" en(h4dotc)-236,="" erratic="" high="" intermittent="" p0503="" procedure="" sensor="" speed="" to="" trouble="" vehicle="" with="" —="" —,=""></ref.>
P0506	Idle Control System RPM Lower Than Expected	<ref. (dtc).="" code="" control="" diagnostic="" dtc="" en(h4dotc)-238,="" expected="" idle="" lower="" p0506="" procedure="" rpm="" system="" than="" to="" trouble="" with="" —="" —,=""></ref.>
P0507	Idle Control System RPM Higher Than Expected	<ref. (dtc).="" code="" control="" diagnostic="" dtc="" en(h4dotc)-241,="" expected="" higher="" idle="" p0507="" procedure="" rpm="" system="" than="" to="" trouble="" with="" —="" —,=""></ref.>
P0512	Starter Request Circuit	<ref. (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-244,="" p0512="" procedure="" request="" starter="" to="" trouble="" with="" —="" —,=""></ref.>
P0519	Idle Control System Malfunction (Fail-Safe)	<ref. (dtc).="" (fail-safe)="" code="" control="" diagnostic="" dtc="" en(h4dotc)-247,="" idle="" mal-function="" p0519="" procedure="" system="" to="" trouble="" with="" —="" —,=""></ref.>
P0545	Exhaust Gas Temperature Sensor Circuit Low-Bank 1	<ref. (dtc).="" 1="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-250,="" exhaust="" gas="" low-bank="" p0545="" procedure="" sensor="" temperature="" to="" trouble="" with="" —="" —,=""></ref.>
P0546	Exhaust Gas Temperature Sensor Circuit High-Bank 1	<ref. (dtc).="" 1="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-252,="" exhaust="" gas="" high-bank="" p0546="" procedure="" sensor="" temperature="" to="" trouble="" with="" —="" —,=""></ref.>
P0600	Improper CAN communication	<ref. (dtc).="" can="" code="" communication="" diagnostic="" dtc="" en(h4dotc)-255,="" improper="" p0600="" procedure="" to="" trouble="" with="" —="" —,=""></ref.>
P0604	Internal Control Module Random Access Memory (RAM) Error	<ref. (dtc).="" (ram)="" access="" code="" control="" diagnostic="" dtc="" en(h4dotc)-257,="" error="" internal="" memory="" module="" p0604="" procedure="" random="" to="" trouble="" with="" —="" —,=""></ref.>

DTC	Item	Index
P0605	Internal Control Module Read Only Memory (ROM) Error	<ref. (dtc).="" (rom)="" code="" control="" diagnostic="" dtc="" en(h4dotc)-259,="" error="" internal="" memory="" module="" only="" p0605="" procedure="" read="" to="" trouble="" with="" —="" —,=""></ref.>
P0607	Control Module Performance	<ref. (dtc).="" code="" control="" diagnostic="" dtc="" en(h4dotc)-260,="" module="" p0607="" perfor-mance="" procedure="" to="" trouble="" with="" —="" —,=""></ref.>
P0638	Throttle Actuator Control Range/Performance (Bank 1)	<ref. (bank="" (dtc).="" 1)="" actuator="" code="" control="" diagnostic="" dtc="" en(h4dotc)-263,="" p0638="" performance="" procedure="" range="" throttle="" to="" trouble="" with="" —="" —,=""></ref.>
P0691	Cooling Fan 1 Control Circuit Low	<ref. (dtc).="" 1="" circuit="" code="" control="" cooling="" diagnostic="" dtc="" en(h4dotc)-264,="" fan="" low="" p0691="" procedure="" to="" trouble="" with="" —="" —,=""></ref.>
P0692	Cooling Fan 1 Control Circuit High	<ref. (dtc).="" 1="" circuit="" code="" control="" cooling="" diagnostic="" dtc="" en(h4dotc)-267,="" fan="" high="" p0692="" procedure="" to="" trouble="" with="" —="" —,=""></ref.>
P0700	Request AT MIL ON	<ref. (dtc).="" at="" code="" diagnostic="" dtc="" en(h4dotc)-270,="" mil="" on="" p0700="" procedure="" request="" to="" trouble="" with="" —="" —,=""></ref.>
P0851	Neutral Switch Input Circuit Low	<ref. (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-271,="" input="" low="" neutral="" p0851="" procedure="" switch="" to="" trouble="" with="" —="" —,=""></ref.>
P0852	Neutral Switch Input Circuit High	<ref. (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-273,="" high="" input="" neutral="" p0852="" procedure="" switch="" to="" trouble="" with="" —="" —,=""></ref.>
P1086	Tumble Generated Valve Position Sensor 2 Circuit Low	<ref. (dtc).="" 2="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-275,="" generated="" low="" p1086="" position="" procedure="" sensor="" to="" trouble="" tumble="" valve="" with="" —="" —,=""></ref.>
P1087	Tumble Generated Valve Position Sensor 2 Circuit High	<ref. (dtc).="" 2="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-278,="" generated="" high="" p1087="" position="" procedure="" sensor="" to="" trouble="" tumble="" valve="" with="" —="" —,=""></ref.>
P1088	Tumble Generated Valve Position Sensor 1 Circuit Low	<ref. (dtc).="" 1="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-280,="" generated="" low="" p1088="" position="" procedure="" sensor="" to="" trouble="" tumble="" valve="" with="" —="" —,=""></ref.>
P1089	Tumble Generated Valve Position Sensor 1 Circuit High	<ref. (dtc).="" 1="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-283,="" generated="" high="" p1089="" position="" procedure="" sensor="" to="" trouble="" tumble="" valve="" with="" —="" —,=""></ref.>
P1090	Tumble Generated Valve System 1 (Valve Open)	<ref. (dtc).="" (valve="" 1="" code="" diagnostic="" dtc="" en(h4dotc)-285,="" generated="" open)="" p1090="" procedure="" system="" to="" trouble="" tumble="" valve="" with="" —="" —,=""></ref.>
P1091	Tumble Generated Valve System 1 (Valve Close)	<ref. (dtc).="" (valve="" 1="" close)="" code="" diagnostic="" dtc="" en(h4dotc)-286,="" generated="" p1091="" procedure="" system="" to="" trouble="" tumble="" valve="" with="" —="" —,=""></ref.>
P1092	Tumble Generated Valve System 2 (Valve Open)	<ref. (dtc).="" (valve="" 2="" code="" diagnostic="" dtc="" en(h4dotc)-287,="" generated="" open)="" p1092="" procedure="" system="" to="" trouble="" tumble="" valve="" with="" —="" —,=""></ref.>
P1093	Tumble Generated Valve System 2 (Valve Close)	<ref. (dtc).="" (valve="" 2="" close)="" code="" diagnostic="" dtc="" en(h4dotc)-288,="" generated="" p1093="" procedure="" system="" to="" trouble="" tumble="" valve="" with="" —="" —,=""></ref.>
P1094	Tumble Generated Valve Signal 1 Circuit Malfunction (Open)	<ref. (dtc).="" (open)="" 1="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-289,="" generated="" malfunction="" p1094="" procedure="" signal="" to="" trouble="" tumble="" valve="" with="" —="" —,=""></ref.>
P1095	Tumble Generated Valve Signal 1 Circuit Malfunction (Short)	<ref. (dtc).="" (short)="" 1="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-291,="" generated="" malfunction="" p1095="" procedure="" signal="" to="" trouble="" tumble="" valve="" with="" —="" —,=""></ref.>
P1096	Tumble Generated Valve Signal 2 Circuit Malfunction (Open)	<ref. (dtc).="" (open)="" 2="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-293,="" generated="" malfunction="" p1096="" procedure="" signal="" to="" trouble="" tumble="" valve="" with="" —="" —,=""></ref.>
P1097	Tumble Generated Valve Signal 2 Circuit Malfunction (Short)	<ref. (dtc).="" (short)="" 2="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-295,="" generated="" malfunction="" p1097="" procedure="" signal="" to="" trouble="" tumble="" valve="" with="" —="" —,=""></ref.>

DTC	Item	Index
P1110	Atmospheric Pressure Sensor Circuit Malfunction (Low Input)	<ref. atmospheric="" dtc="" en(h4dotc)-297,="" p1110="" pressure<br="" to="" —="">SENSOR CIRCUIT MALFUNCTION (LOW INPUT) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P1111	Atmospheric Pressure Sensor Circuit Malfunction (High Input)	<ref. atmospheric="" dtc="" en(h4dotc)-297,="" p1111="" pressure<br="" to="" —="">SENSOR CIRCUIT MALFUNCTION (HIGH INPUT) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P1152	O ₂ Sensor Circuit Range/Performance (Low) (Bank1 Sensor1)	<ref. dtc="" en(h4dotc)-298,="" o<sub="" p1152="" to="" —="">2 SENSOR CIRCUIT RANGE/ PERFORMANCE (LOW) (BANK 1 SENSOR 1) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P1153	O ₂ Sensor Circuit Range/Performance (High) (Bank1 Sensor1)	<ref. dtc="" en(h4dotc)-299,="" o<sub="" p1153="" to="" —="">2 SENSOR CIRCUIT RANGE/ PERFORMANCE (HIGH) (BANK1 SENSOR1) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P1160	Return Spring Failure	<ref. dtc="" en(h4dotc)-301,="" failure="" p1160="" return="" spring="" to="" —="" —,<br="">Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P1301	Misfire Detected (High Temperature Exhaust Gas)	<ref. (dtc).="" (high="" code="" detected="" diagnostic="" dtc="" en(h4dotc)-302,="" exhaust="" gas)="" misfire="" p1301="" procedure="" temperature="" to="" trouble="" with="" —="" —,=""></ref.>
P1312	Exhaust Gas Temperature Sensor Malfunction	<ref. dtc="" en(h4dotc)-304,="" exhaust="" gas="" p1312="" tempera-<br="" to="" —="">TURE SENSOR MALFUNCTION —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P1400	Fuel Tank Pressure Control Solenoid Valve Circuit Low	<ref. (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" en(h4dotc)-306,="" fuel="" low="" p1400="" pressure="" procedure="" solenoid="" tank="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1420	Fuel Tank Pressure Control Sol. Valve Circuit High	<ref. (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" en(h4dotc)-309,="" fuel="" high="" p1420="" pressure="" procedure="" sol.="" tank="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1443	Vent Control Solenoid Valve Function Problem	<ref. (dtc).="" code="" control="" diagnostic="" dtc="" en(h4dotc)-311,="" function="" p1443="" problem="" procedure="" solenoid="" to="" trouble="" valve="" vent="" with="" —="" —,=""></ref.>
P1446	Fuel Tank Sensor Control Valve Circuit Low	<ref. (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" en(h4dotc)-313,="" fuel="" low="" p1446="" procedure="" sensor="" tank="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1447	Fuel Tank Sensor Control Valve Circuit High	<ref. (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" en(h4dotc)-316,="" fuel="" high="" p1447="" procedure="" sensor="" tank="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1448	Fuel Tank Sensor Control Valve Range/Performance	<ref. (dtc).="" code="" control="" diagnostic="" dtc="" en(h4dotc)-318,="" fuel="" p1448="" performance="" procedure="" range="" sensor="" tank="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1491	Positive Crankcase Ventilation (Blowby) Function Problem	<ref. crankcase="" dtc="" en(h4dotc)-320,="" p1491="" positive="" to="" venti-<br="" —="">LATION (BLOW-BY) FUNCTION PROBLEM —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P1518	Starter Switch Circuit Low Input	<ref. (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-322,="" input="" low="" p1518="" procedure="" starter="" switch="" to="" trouble="" with="" —="" —,=""></ref.>
P1544	Exhaust Gas Temperature Too High	<ref. (dtc).="" code="" diagnostic="" dtc="" en(h4dotc)-325,="" exhaust="" gas="" high="" p1544="" procedure="" temperature="" to="" too="" trouble="" with="" —="" —,=""></ref.>
P1560	Back-Up Voltage Circuit Malfunction	<ref. (dtc).="" back-up="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-327,="" malfunction="" p1560="" procedure="" to="" trouble="" voltage="" with="" —="" —,=""></ref.>
P2088	OCV Solenoid Valve Signal A Circuit Open (Bank 1)	<ref. (bank="" (dtc).="" 1)="" a="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-330,="" ocv="" open="" p2088="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P2089	OCV Solenoid Valve Signal A Circuit Short (Bank 1)	<ref. (bank="" (dtc).="" 1)="" a="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-332,="" ocv="" p2089="" procedure="" short="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>

LIST OF DIAGNOSTIC TROUBLE CODE (DTC) ENGINE (DIAGNOSTICS)

DTC	Item	Index
P2092	OCV Solenoid Valve Signal A Circuit Open (Bank 2)	<ref. (bank="" (dtc).="" 2)="" a="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-334,="" ocv="" open="" p2092="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P2093	OCV Solenoid Valve Signal A Circuit Short (Bank 2)	<ref. (bank="" (dtc).="" 2)="" a="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-336,="" ocv="" p2093="" procedure="" short="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P2096	Post Catalyst Fuel Trim System Too Lean Bank 1	<ref. catalyst="" dtc="" en(h4dotc)-338,="" fuel="" p2096="" post="" to="" trim<br="" —="">SYSTEM TOO LEAN BANK 1 —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P2097	Post Catalyst Fuel Trim System Too Rich Bank 1	<ref. (dtc).="" 1="" bank="" catalyst="" code="" diagnostic="" dtc="" en(h4dotc)-343,="" fuel="" p2097="" post="" procedure="" rich="" system="" to="" too="" trim="" trouble="" with="" —="" —,=""></ref.>
P2101	Throttle Actuator Control Motor Circuit Range/Performance	<ref. (dtc).="" actuator="" circuit="" code="" control="" diagnostic="" dtc="" en(h4dotc)-348,="" 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(h4dotc)-355,="" 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(h4dotc)-358,="" high="" motor="" p2103="" procedure="" throttle="" to="" trouble="" with="" —="" —,=""></ref.>
P2109	Throttle/Pedal Position Sensor A Minimum Stop Performance	<ref. (dtc).="" a="" code="" diagnostic="" dtc="" en(h4dotc)-361,="" minimum="" p2109="" pedal="" performance="" position="" procedure="" sensor="" stop="" throttle="" to="" trouble="" with="" —="" —,=""></ref.>
P2122	Throttle/Pedal Position Sensor/ Switch "D" Circuit Low Input	<ref. "d"="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4dotc)-362,="" 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(h4dotc)-365,="" 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(h4dotc)-368,="" 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(h4dotc)-371,="" hight="" input="" p2128="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" with="" —="" —,=""></ref.>
P2135	Throttle/Pedal Position Sensor/ Switch "A"/"B" Voltage Rationality	<ref. "a"="" "b"="" (dtc).="" code="" diagnostic="" dtc="" en(h4dotc)-374,="" p2135="" pedal="" position="" procedure="" rationality="" sensor="" switch="" throttle="" to="" trouble="" voltage="" with="" —="" —,=""></ref.>
P2138	Throttle/Pedal Position Sensor/ Switch "D"/"E" Voltage Rationality	<ref. "d"="" "e"="" (dtc).="" code="" diagnostic="" dtc="" en(h4dotc)-379,="" p2138="" pedal="" position="" procedure="" rationality="" sensor="" switch="" throttle="" to="" trouble="" voltage="" with="" —="" —,=""></ref.>