18.List of Diagnostic Trouble Code (DTC)

A: LIST

DTC No.	Item	Index
P0030	HO2S Heater control circuit (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1)="" circuit="" code="" control="" diagnostic="" dtc="" en(h4so)-92,="" heater="" ho2s="" p0030="" procedure="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P0031	HO2S Heater control circuit low (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1)="" circuit="" code="" control="" diagnostic="" dtc="" en(h4so)-94,="" heater="" ho2s="" low="" p0031="" procedure="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P0032	HO2S Heater control circuit high (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1)="" circuit="" code="" control="" diagnostic="" dtc="" en(h4so)-98,="" heater="" high="" ho2s="" p0032="" procedure="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P0037	HO2S Heater control circuit low (Bank 1 Sensor 2)	<ref. (bank="" (dtc).="" 1="" 2)="" circuit="" code="" control="" diagnostic="" dtc="" en(h4so)-100,="" heater="" ho2s="" low="" p0037="" procedure="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P0038	HO2S Heater control circuit high (Bank 1 Sensor 2)	<ref. (bank="" (dtc).="" 1="" 2)="" circuit="" code="" control="" diagnostic="" dtc="" en(h4so)-104,="" heater="" high="" ho2s="" p0038="" procedure="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P0065	Air assisted injector control range/performance	<ref. (dtc).="" air="" assisted="" code="" control="" diagnostic="" dtc="" en(h4so)-106,="" injector="" p0065="" performance="" procedure="" range="" to="" trouble="" with="" —="" —,=""></ref.>
P0066	Air assisted injector control circuit or circuit low	<ref. (dtc).="" air="" assisted="" circuit="" code="" control="" diagnostic="" dtc="" en(h4so)-108,="" injector="" low="" or="" p0066="" procedure="" to="" trouble="" with="" —="" —,=""></ref.>
P0067	Air assisted injector control circuit high	<ref. (dtc).="" air="" assisted="" circuit="" code="" control="" diagnostic="" dtc="" en(h4so)-110,="" high="" injector="" p0067="" procedure="" to="" trouble="" with="" —="" —,=""></ref.>
P0068	Manifold absolute pressure/barometric pressure circuit range/performance	<ref. abso-<br="" dtc="" en(h4so)-112,="" manifold="" p0068="" to="" —="">LUTE PRESSURE/BAROMETRIC PRESSURE CIRCUIT RANGE/PERFORMANCE —, Diagnostic Procedure with Diag- nostic Trouble Code (DTC).></ref.>
P0107	Manifold absolute pressure/barometric pressure circuit low input	<ref. abso-<br="" dtc="" en(h4so)-114,="" manifold="" p0107="" to="" —="">LUTE PRESSURE/BAROMETRIC PRESSURE CIRCUIT LOW INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0108	Manifold absolute pressure/barometric pressure circuit high input	<ref. abso-<br="" dtc="" en(h4so)-118,="" manifold="" p0108="" to="" —="">LUTE PRESSURE/BAROMETRIC PRESSURE CIRCUIT HIGH INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0111	Intake air temperature circuit range/performance	<ref. air="" dtc="" en(h4so)-122,="" intake="" p0111="" tem-<br="" to="" —="">PERATURE CIRCUIT RANGE/PERFORMANCE —, Diagnos- tic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0112	Intake air temperature circuit low input	<ref. air="" dtc="" en(h4so)-124,="" intake="" p0112="" tem-<br="" to="" —="">PERATURE CIRCUIT LOW INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0113	Intake air temperature circuit high input	<ref. air="" dtc="" en(h4so)-126,="" intake="" p0113="" tem-<br="" to="" —="">PERATURE CIRCUIT HIGH INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0117	Engine coolant temperature circuit low input	<ref. (dtc).="" circuit="" code="" coolant="" diagnostic="" dtc="" en(h4so)-130,="" 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(h4so)-132,="" engine="" high="" input="" p0118="" procedure="" temperature="" to="" trouble="" with="" —="" —,=""></ref.>

DTC	Item	Index
No. P0121	Throttle/pedal position sensor/switch "A" circuit range/performance	<ref. "a"="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4so)-136,="" p0121="" pedal="" performance="" position="" procedure="" range="" sensor="" switch="" throttle="" to="" trouble="" with="" —="" —,=""></ref.>
P0122	Throttle/pedal position sensor/switch "A" circuit low input	<ref. "a"="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4so)-138,="" input="" low="" p0122="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" with="" —="" —,=""></ref.>
P0123	Throttle/pedal position sensor/switch "A" circuit high input	<ref. "a"="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4so)-142,="" high="" input="" p0123="" pedal="" position="" procedure="" sensor="" switch="" throttle="" to="" trouble="" with="" —="" —,=""></ref.>
P0125	Insufficient coolant temperature for closed loop fuel control	<ref. dtc="" en(h4so)-144,="" insufficient<br="" p0125="" to="" —="">COOLANT TEMPERATURE FOR CLOSED LOOP FUEL CONTROL —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0126	INSUFFICIENT COOLANT TEMPERATURE FOR STABLE OPERATION	<ref. cool-<br="" dtc="" en(h4so)-146,="" p0126="" sufficient="" to="" —="">ANT TEMPERATURE FOR STABLE OPERATION —, Diag- nostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0128	Coolant thermostat (coolant temperature below thermostat regulating temperature)	<ref. coolant="" dtc="" en(h4so)-149,="" p0128="" thermo-<br="" to="" —="">STAT (COOLANT TEMPERATURE BELOW THERMOSTAT REGULATING TEMPERATURE) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0130	O2 sensor circuit (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1)="" circuit="" code="" diagnostic="" dtc="" en(h4so)-150,="" o2="" p0130="" procedure="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P0131	O2 sensor circuit low voltage (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1)="" circuit="" code="" diagnostic="" dtc="" en(h4so)-154,="" low="" o2="" p0131="" procedure="" sensor="" to="" trouble="" voltage="" with="" —="" —,=""></ref.>
P0132	O2 sensor circuit high voltage (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1)="" circuit="" code="" diagnostic="" dtc="" en(h4so)-156,="" high="" o2="" p0132="" procedure="" sensor="" to="" trouble="" voltage="" with="" —="" —,=""></ref.>
P0133	O2 sensor circuit slow response (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1)="" circuit="" code="" diagnostic="" dtc="" en(h4so)-158,="" o2="" p0133="" procedure="" response="" sensor="" slow="" to="" trouble="" with="" —="" —,=""></ref.>
P0134	O2 sensor circuit no activity detected (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1)="" activity="" circuit="" code="" detected="" diagnostic="" dtc="" en(h4so)-160,="" no="" o2="" p0134="" procedure="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P0137	O2 sensor circuit low voltage (Bank 1 Sensor 2)	<ref. (bank="" (dtc).="" 1="" 2)="" circuit="" code="" diagnostic="" dtc="" en(h4so)-162,="" low="" o2="" p0137="" procedure="" sensor="" to="" trouble="" voltage="" with="" —="" —,=""></ref.>
P0138	O2 sensor circuit high voltage (Bank 1 Sensor 2)	<ref. (bank="" (dtc).="" 1="" 2)="" circuit="" code="" diagnostic="" dtc="" en(h4so)-164,="" high="" o2="" p0138="" procedure="" sensor="" to="" trouble="" voltage="" with="" —="" —,=""></ref.>
P0139	O2 sensor circuit slow response (Bank 1 Sensor 2)	<ref. (bank="" (dtc).="" 1="" 2)="" circuit="" code="" diagnostic="" dtc="" en(h4so)-168,="" o2="" p0139="" procedure="" response="" sensor="" slow="" to="" trouble="" with="" —="" —,=""></ref.>
P0171	System too lean (Bank 1)	<ref. (bank="" (dtc).="" 1)="" code="" diagnostic="" dtc="" en(h4so)-170,="" lean="" p0171="" procedure="" system="" to="" too="" trouble="" with="" —="" —,=""></ref.>
P0172	System too rich (Bank 1)	<ref. (bank="" (dtc).="" 1)="" code="" diagnostic="" dtc="" en(h4so)-170,="" p0172="" procedure="" rich="" system="" to="" too="" trouble="" with="" —="" —,=""></ref.>
P0181	Fuel temperature sensor "A" circuit range/performance	<ref. dtc="" en(h4so)-174,="" fuel="" p0181="" tempera-<br="" to="" —="">TURE SENSOR "A" CIRCUIT RANGE/PERFORMANCE —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0182	Fuel temperature sensor "A" circuit low input	<ref. dtc="" en(h4so)-176,="" fuel="" p0182="" tempera-<br="" to="" —="">TURE SENSOR "A" CIRCUIT LOW INPUT —, Diagnostic Pro- cedure with Diagnostic Trouble Code (DTC).></ref.>

DTC No.	Item	Index
P0183	Fuel temperature Sensor "A" circuit high input	<ref. dtc="" en(h4so)-178,="" fuel="" p0183="" tempera-<br="" to="" —="">TURE SENSOR "A" CIRCUIT HIGH INPUT —, Diagnostic Pro- cedure with Diagnostic Trouble Code (DTC).></ref.>
P0301	Cylinder 1 misfire detected	<ref. (dtc).="" 1="" code="" cylinder="" detected="" diagnostic="" dtc="" en(h4so)-181,="" misfire="" p0301="" procedure="" to="" trouble="" with="" —="" —,=""></ref.>
P0302	Cylinder 2 misfire detected	<ref. (dtc).="" 2="" code="" cylinder="" detected="" diagnostic="" dtc="" en(h4so)-181,="" misfire="" p0302="" procedure="" to="" trouble="" with="" —="" —,=""></ref.>
P0303	Cylinder 3 misfire detected	<ref. (dtc).="" 3="" code="" cylinder="" detected="" diagnostic="" dtc="" en(h4so)-181,="" misfire="" p0303="" procedure="" to="" trouble="" with="" —="" —,=""></ref.>
P0304	Cylinder 4 misfire detected	<ref. (dtc).="" 4="" code="" cylinder="" detected="" diagnostic="" dtc="" en(h4so)-182,="" misfire="" p0304="" procedure="" to="" trouble="" with="" —="" —,=""></ref.>
P0327	Knock sensor 1 circuit low input (Bank 1 or Single Sensor)	<ref. 1<br="" dtc="" en(h4so)-190,="" knock="" p0327="" sensor="" to="" —="">CIRCUIT LOW INPUT (BANK 1 OR SINGLE SENSOR) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0328	Knock sensor 1 circuit high input (Bank 1 or Single Sensor)	<ref. 1<br="" dtc="" en(h4so)-192,="" knock="" p0328="" sensor="" to="" —="">CIRCUIT HIGH INPUT (BANK 1 OR SINGLE SENSOR) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0335	Crankshaft position sensor "A" circuit	<ref. "a"="" (dtc).="" circuit="" code="" crankshaft="" diagnostic="" dtc="" en(h4so)-194,="" p0335="" position="" procedure="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P0336	Crankshaft position sensor "A" circuit range/per- formance	<ref. "a"="" (dtc).="" circuit="" code="" crankshaft="" diagnostic="" dtc="" en(h4so)-196,="" p0336="" performance="" position="" procedure="" range="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P0340	Camshaft position sensor "A" circuit (Bank 1 or Single Sensor)	<ref. "a"="" (bank="" (dtc).="" 1="" camshaft="" circuit="" code="" diagnostic="" dtc="" en(h4so)-198,="" or="" p0340="" position="" procedure="" sensor="" sensor)="" single="" to="" trouble="" with="" —="" —,=""></ref.>
P0341	Camshaft position sensor "A" circuit range/performance (Bank 1 or Single Sensor)	<ref. "a"="" (bank="" (dtc).="" 1="" camshaft="" circuit="" code="" diagnostic="" dtc="" en(h4so)-200,="" or="" p0341="" performance="" position="" procedure="" range="" sensor="" sensor)="" single="" to="" trouble="" with="" —="" —,=""></ref.>
P0400	Exhaust gas recirculation flow	<ref. (dtc).="" code="" diagnostic="" dtc="" en(h4so)-204,="" exhaust="" flow="" gas="" p0400="" procedure="" recirculation="" to="" trouble="" with="" —="" —,=""></ref.>
P0420	Catalyst system efficiency below threshold (Bank 1)	<ref. (bank="" (dtc).="" 1)="" below="" catalyst="" code="" diagnostic="" dtc="" efficiency="" en(h4so)-208,="" p0420="" procedure="" system="" threshold="" to="" trouble="" with="" —="" —,=""></ref.>
P0442	Evaporative emission control system leak detected (small leak)	<ref. dtc="" emis-<br="" en(h4so)-212,="" evaporative="" p0442="" to="" —="">SION CONTROL SYSTEM LEAK DETECTED (SMALL LEAK) —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0447	Evaporative emission control system vent control circuit open	<ref. dtc="" emis-<br="" en(h4so)-217,="" evaporative="" p0447="" to="" —="">SION CONTROL SYSTEM VENT CONTROL CIRCUIT OPEN —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0448	Evaporative emission control system vent control circuit shorted	<ref. (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" emission="" en(h4so)-221,="" 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(h4so)-224,="" evaporative="" p0451="" performance="" pressure="" procedure="" range="" sensor="" system="" to="" trouble="" with="" —="" —,=""></ref.>

DTC No.	Item	Index
P0452	Evaporative emission control system pressure sensor low input	<ref. dtc="" emis-<br="" en(h4so)-226,="" evaporative="" p0452="" to="" —="">SION CONTROL SYSTEM PRESSURE SENSOR LOW INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0453	Evaporative emission control system pressure sensor high input	<ref. dtc="" emis-<br="" en(h4so)-230,="" evaporative="" p0453="" to="" —="">SION 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="" emis-<br="" en(h4so)-233,="" evaporative="" p0456="" to="" —="">SION 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="" emis-<br="" en(h4so)-237,="" evaporative="" p0457="" to="" —="">SION 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="" emis-<br="" en(h4so)-242,="" evaporative="" p0458="" to="" —="">SION CONTROL SYSTEM PURGE CONTROL VALVE CIR- CUIT LOW —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0459	Evaporative emission control system purge control valve circuit high	<ref. (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" emission="" en(h4so)-246,="" evaporative="" high="" p0459="" procedure="" purge="" system="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P0461	Fuel level sensor circuit range/performance	<ref. dtc="" en(h4so)-248,="" fuel="" level="" p0461="" sen-<br="" to="" —="">SOR CIRCUIT RANGE/PERFORMANCE —, Diagnostic Pro- cedure with Diagnostic Trouble Code (DTC).></ref.>
P0462	Fuel level sensor circuit low input	<ref. dtc="" en(h4so)-250,="" fuel="" level="" p0462="" sen-<br="" to="" —="">SOR CIRCUIT LOW INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0463	Fuel level sensor circuit high input	<ref. dtc="" en(h4so)-254,="" fuel="" level="" p0463="" sen-<br="" to="" —="">SOR CIRCUIT HIGH INPUT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0464	Fuel level sensor circuit intermittent	<ref. dtc="" en(h4so)-258,="" fuel="" level="" p0464="" sen-<br="" to="" —="">SOR CIRCUIT INTERMITTENT—, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0483	Cooling fan rationality check	<ref. (dtc).="" check="" code="" cooling="" diagnostic="" dtc="" en(h4so)-261,="" fan="" p0483="" procedure="" rationality="" to="" trouble="" with="" —="" —,=""></ref.>
P0502	Vehicle speed sensor circuit low input	<ref. (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4so)-264,="" input="" low="" p0502="" procedure="" sensor="" speed="" to="" trouble="" vehicle="" with="" —="" —,=""></ref.>
P0503	Vehicle speed sensor intermittent/erratic/high	<ref. (dtc).="" code="" diagnostic="" dtc="" en(h4so)-264,="" 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(h4so)-266,="" 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(h4so)-268,="" expected="" higher="" idle="" p0507="" procedure="" rpm="" system="" than="" to="" trouble="" with="" —="" —,=""></ref.>
P0512	Starter request circuit	<ref. (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4so)-270,="" p0512="" procedure="" request="" starter="" to="" trouble="" with="" —="" —,=""></ref.>
P0519	Idle air control circuit system performance	<ref. (dtc).="" air="" circuit="" code="" control="" diagnostic="" dtc="" en(h4so)-272,="" idle="" p0519="" performance="" procedure="" system="" to="" trouble="" with="" —="" —,=""></ref.>

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

DTC No.	Item	Index
P0565	Cruise control on signal	<ref. (dtc).="" code="" control="" cruise="" diagnostic="" dtc="" en(h4so)-274,="" on="" p0565="" procedure="" signal="" to="" trouble="" with="" —="" —,=""></ref.>
P0604	Internal control module random access memory (RAM) error	<ref. control<br="" dtc="" en(h4so)-276,="" internal="" p0604="" to="" —="">MODULE RANDOM ACCESS MEMORY (RAM) ERROR —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0691	Cooling fan 1 control circuit low	<ref. 1<br="" cooling="" dtc="" en(h4so)-279,="" fan="" p0691="" to="" —="">CONTROL CIRCUIT LOW —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0692	Cooling fan 1 control circuit high	<ref. 1<br="" cooling="" dtc="" en(h4so)-283,="" fan="" p0692="" to="" —="">CONTROL CIRCUIT HIGH —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0703	Torque converter/brake switch "B" circuit	<ref. con-<br="" dtc="" en(h4so)-286,="" p0703="" to="" torque="" —="">VERTER/BRAKE SWITCH "B" CIRCUIT —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0705	Transmission range sensor circuit (PRNDL Input)	<ref. 4at-101,="" check="" diagnostic<br="" inhibitor="" switch,="" to="">Procedure without Diagnostic Trouble Code (DTC).></ref.>
P0710	Transmission fluid temperature sensor circuit	<ref. 27="" 4at-40,="" atf="" dtc="" sensor,<br="" temperature="" to="">Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0716	Input/turbine speed sensor circuit range/performance	<ref. 36="" 4at-52,="" converter="" dtc="" to="" torque="" turbine<br="">SPEED SENSOR, Diagnostic Procedure with Diagnostic Trou- ble Code (DTC).></ref.>
P0720	Output speed sensor circuit	<ref. 33="" 4at-48,="" dtc="" front="" sensor,<br="" speed="" to="" vehicle="">Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0726	Engine speed input circuit range/performance	<ref. (dtc).="" 11="" 4at-38,="" code="" diagnostic="" dtc="" engine="" procedure="" signal,="" speed="" to="" trouble="" with=""></ref.>
P0731	Gear 1 incorrect ratio	<ref. (dtc).="" 1="" code="" diagnostic="" dtc="" en(h4so)-288,="" gear="" incorrect="" p0731="" procedure="" ratio="" to="" trouble="" with="" —="" —,=""></ref.>
P0732	Gear 2 incorrect ratio	<ref. (dtc).="" 2="" code="" diagnostic="" dtc="" en(h4so)-288,="" gear="" incorrect="" p0732="" procedure="" ratio="" to="" trouble="" with="" —="" —,=""></ref.>
P0733	Gear 3 incorrect ratio	<ref. (dtc).="" 3="" code="" diagnostic="" dtc="" en(h4so)-288,="" gear="" incorrect="" p0733="" procedure="" ratio="" to="" trouble="" with="" —="" —,=""></ref.>
P0734	Gear 4 incorrect ratio	<ref. (dtc).="" 4="" code="" diagnostic="" dtc="" en(h4so)-289,="" gear="" incorrect="" p0734="" procedure="" ratio="" to="" trouble="" with="" —="" —,=""></ref.>
P0741	Torque converter clutch circuit performance or stuck off	<ref. con-<br="" dtc="" en(h4so)-290,="" p0741="" to="" torque="" —="">VERTER CLUTCH CIRCUIT PERFORMANCE OR STUCK OFF —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0743	Torque converter clutch circuit electrical	<ref. (dtc).="" 4at-84,="" 77="" code="" diagnostic="" dtc="" duty="" lock-up="" procedure="" solenoid,="" to="" trouble="" with=""></ref.>
P0748	Pressure control solenoid "A" electrical	<ref. 4at-76,="" 75="" dtc="" duty="" line="" pressure="" solenoid,<br="" to="">Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P0753	Shift solenoid "A" electrical	<ref. (dtc).="" 1,="" 4at-60,="" 71="" code="" diagnostic="" dtc="" procedure="" shift="" solenoid="" to="" trouble="" with=""></ref.>
P0758	Shift solenoid "B" electrical	<ref. (dtc).="" 2,="" 4at-64,="" 72="" code="" diagnostic="" dtc="" procedure="" shift="" solenoid="" to="" trouble="" with=""></ref.>
P0771	Shift solenoid "E" performance or stuck off	<ref. (dtc).="" 4at-68,="" 73="" clutch="" code="" diagnostic="" dtc="" low="" procedure="" solenoid,="" timing="" to="" trouble="" with=""></ref.>
P0778	Pressure control solenoid "B" electrical	Ref. to 4AT-80, DTC 76 2-4 BRAKE DUTY SOLENOID, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
P0785	Shift/timing solenoid	Ref. to 4AT-80, DTC 76 2-4 BRAKE DUTY SOLENOID, Diagnostic Procedure with Diagnostic Trouble Code (DTC).>

DTC No.	Item	Index
P0851	Neutral switch input circuit low	<ref. (at="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4so)-292,="" input="" low="" model)="" neutral="" p0851="" procedure="" switch="" to="" trouble="" with="" —="" —,=""> and <ref. (dtc).="" (mt="" circuit="" code="" diagnostic="" dtc="" en(h4so)-294,="" input="" low="" model)="" neutral="" p0851="" procedure="" switch="" to="" trouble="" with="" —="" —,=""></ref.></ref.>
P0852	Neutral switch input circuit high	<ref. (at="" (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4so)-296,="" high="" input="" model)="" neutral="" p0852="" procedure="" switch="" to="" trouble="" with="" —="" —,=""> and<ref. (dtc).="" (mt="" circuit="" code="" diagnostic="" dtc="" en(h4so)-300,="" high="" input="" model)="" neutral="" p0852="" procedure="" switch="" to="" trouble="" with="" —="" —,=""></ref.></ref.>
P0864	TCM communication circuit range/performance	<ref. communica-<br="" dtc="" en(h4so)-304,="" p0864="" tcm="" to="" —="">TION CIRCUIT RANGE/PERFORMANCE —, Diagnostic Pro- cedure with Diagnostic Trouble Code (DTC).></ref.>
P0865	TCM communication circuit low	<ref. (dtc).="" circuit="" code="" communication="" diagnostic="" dtc="" en(h4so)-306,="" low="" p0865="" procedure="" tcm="" to="" trouble="" with="" —="" —,=""></ref.>
P0866	TCM communication circuit high	<ref. (dtc).="" circuit="" code="" communication="" diagnostic="" dtc="" en(h4so)-308,="" high="" p0866="" procedure="" tcm="" to="" trouble="" with="" —="" —,=""></ref.>
P1134	A/F sensor micro-computer problem	<ref. (dtc).="" a="" code="" diagnostic="" dtc="" en(h4so)-310,="" f="" micro-computer="" p1134="" problem="" procedure="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P1137	O2 sensor circuit (Bank 1 Sensor 1)	<ref. (bank="" (dtc).="" 1="" 1)="" circuit="" code="" diagnostic="" dtc="" en(h4so)-312,="" o2="" p1137="" procedure="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P1400	Fuel tank pressure control solenoid valve circuit low	<ref. dtc="" en(h4so)-316,="" fuel="" p1400="" pres-<br="" tank="" to="" —="">SURE CONTROL SOLENOID VALVE CIRCUIT LOW —, Diag- nostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P1420	Fuel tank pressure control solenoid valve circuit high	<ref. dtc="" en(h4so)-320,="" fuel="" p1420="" pres-<br="" tank="" to="" —="">SURE CONTROL SOLENOID VALVE CIRCUIT HIGH —, Diagnostic Procedure with Diagnostic Trouble Code (DTC).></ref.>
P1443	Vent control solenoid valve function problem	<ref. control<br="" dtc="" en(h4so)-322,="" p1443="" to="" vent="" —="">SOLENOID VALVE FUNCTION PROBLEM —, Diagnostic Pro- cedure with Diagnostic Trouble Code (DTC).></ref.>
P1446	Fuel tank sensor control valve circuit low	<ref. (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" en(h4so)-324,="" 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(h4so)-328,="" 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(h4so)-330,="" fuel="" p1448="" performance="" procedure="" range="" sensor="" tank="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1492	EGR solenoid valve signal #1 circuit malfunction (low input)	<ref. #1="" (dtc).="" (low="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4so)-332,="" input)="" malfunction="" p1492="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1493	EGR solenoid valve signal #1 circuit malfunction (high input)	<ref. #1="" (dtc).="" (high="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4so)-332,="" input)="" malfunction="" p1493="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1494	EGR solenoid valve signal #2 circuit malfunction (low input)	<ref. #2="" (dtc).="" (low="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4so)-332,="" input)="" malfunction="" p1494="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>

DTC No.	Item	Index
P1495	EGR solenoid valve signal #2 circuit malfunction (high input)	<ref. #2="" (dtc).="" (high="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4so)-332,="" input)="" malfunction="" p1495="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1496	EGR solenoid valve signal #3 circuit malfunction (low input)	<ref. #3="" (dtc).="" (low="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4so)-332,="" input)—,="" malfunction="" p1496="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —=""></ref.>
P1497	EGR solenoid valve signal #3 circuit malfunction (high input)	<ref. #3="" (dtc).="" (high="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4so)-332,="" input)="" malfunction="" p1497="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1498	EGR solenoid valve signal #4 circuit malfunction (low input)	<ref. #4="" (dtc).="" (low="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4so)-334,="" input)="" malfunction="" p1498="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1499	EGR solenoid valve signal #4 circuit malfunction (high input)	<ref. #4="" (dtc).="" (high="" circuit="" code="" diagnostic="" dtc="" egr="" en(h4so)-336,="" input)="" malfunction="" p1499="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1510	ISC solenoid valve signal #1 circuit malfunction (low input)	<ref. (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4so)-264,="" input="" low="" p0502="" procedure="" sensor="" speed="" to="" trouble="" vehicle="" with="" —="" —,=""></ref.>
P1511	ISC solenoid valve signal #1 circuit malfunction (high input)	<ref. #1="" (dtc).="" (high="" circuit="" code="" diagnostic="" dtc="" en(h4so)-338,="" input)="" isc="" malfunction="" p1511="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1512	ISC solenoid valve signal #2 circuit malfunction (low input)	<ref. #2="" (dtc).="" (low="" circuit="" code="" diagnostic="" dtc="" en(h4so)-338,="" input)="" isc="" malfunction="" p1512="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1513	ISC solenoid valve signal #2 circuit malfunction (high input)	<ref. #2="" (dtc).="" (high="" circuit="" code="" diagnostic="" dtc="" en(h4so)-338,="" input)="" isc="" malfunction="" p1513="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1514	ISC solenoid valve signal #3 circuit malfunction (low input)	<ref. #3="" (dtc).="" (low="" circuit="" code="" diagnostic="" dtc="" en(h4so)-338,="" input)="" isc="" malfunction="" p1514="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1515	ISC solenoid valve signal #3 circuit malfunction (high input)	<ref. #3="" (dtc).="" (high="" circuit="" code="" diagnostic="" dtc="" en(h4so)-338,="" input)="" isc="" malfunction="" p1515="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1516	ISC solenoid valve signal #4 circuit malfunction (low input)	<ref. #4="" (dtc).="" (low="" circuit="" code="" diagnostic="" dtc="" en(h4so)-340,="" input)="" isc="" malfunction="" p1516="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1517	ISC solenoid valve signal #4 circuit malfunction (high input)	<ref. #4="" (dtc).="" (high="" circuit="" code="" diagnostic="" dtc="" en(h4so)-342,="" input)="" isc="" malfunction="" p1517="" procedure="" signal="" solenoid="" to="" trouble="" valve="" with="" —="" —,=""></ref.>
P1518	Starter switch circuit low input	<ref. (dtc).="" circuit="" code="" diagnostic="" dtc="" en(h4so)-345,="" input="" low="" p1518="" procedure="" starter="" switch="" to="" trouble="" with="" —="" —,=""></ref.>
P1560	Back-up voltage circuit malfunction	<ref. (dtc).="" back-up="" circuit="" code="" diagnostic="" dtc="" en(h4so)-348,="" malfunction="" p1560="" procedure="" to="" trouble="" voltage="" with="" —="" —,=""></ref.>

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

DTC No.	Item	Index
P1698	Engine torque control cut signal circuit malfunction (low input)	<ref. (dtc).="" (low="" circuit="" code="" control="" cut="" diagnostic="" dtc="" en(h4so)-350,="" engine="" input)="" malfunction="" p1698="" procedure="" signal="" to="" torque="" trouble="" with="" —="" —,=""></ref.>
P1699	Engine torque control cut signal circuit malfunction (high input)	<ref. (dtc).="" (high="" circuit="" code="" control="" cut="" diagnostic="" dtc="" en(h4so)-352,="" engine="" input)="" malfunction="" p1699="" procedure="" signal="" to="" torque="" trouble="" with="" —="" —,=""></ref.>
P1700	Throttle position sensor circuit malfunction for AT	<ref. (dtc).="" 31="" 4at-44,="" code="" diagnostic="" dtc="" position="" procedure="" sensor,="" throttle="" to="" trouble="" with=""></ref.>
P1711	Engine torque control signal #1 circuit malfunction	<ref. #1="" (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" en(h4so)-354,="" engine="" malfunction="" p1711="" procedure="" signal="" to="" torque="" trouble="" with="" —="" —,=""></ref.>
P1712	Engine torque control signal #2 circuit malfunction	<ref. #2="" (dtc).="" circuit="" code="" control="" diagnostic="" dtc="" en(h4so)-356,="" engine="" malfunction="" p1712="" procedure="" signal="" to="" torque="" trouble="" with="" —="" —,=""></ref.>
P2096	Post catalyst fuel trim system too lean bank 1	<ref. (dtc).="" 1="" bank="" catalyst="" code="" diagnostic="" dtc="" en(h4so)-358,="" fuel="" lean="" p2096="" post="" procedure="" system="" to="" too="" trim="" trouble="" with="" —="" —,=""></ref.>
P2097	Post catalyst fuel trim system too rich bank 1	<ref. (dtc).="" 1="" bank="" catalyst="" code="" diagnostic="" dtc="" en(h4so)-364,="" fuel="" p2097="" post="" procedure="" rich="" system="" to="" too="" trim="" trouble="" with="" —="" —,=""></ref.>
P2227	Atmospheric pressure sensor circuit range/perfomance	<ref. (dtc).="" atmospheric="" circuit="" code="" diagnostic="" dtc="" en(h4so)-369,="" p2227="" performance="" pressure="" procedure="" range="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P2228	Atmospheric pressure sensor circuit malfunction (low input)	<ref. (dtc).="" (low="" atmospheric="" circuit="" code="" diagnostic="" dtc="" en(h4so)-369,="" input)="" malfunction="" p2228="" pressure="" procedure="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>
P2229	Atmospheric pressure sensor circuit malfunction (high input)	<ref. (dtc).="" (high="" atmospheric="" circuit="" code="" diagnostic="" dtc="" en(h4so)-370,="" input)="" malfunction="" p2229="" pressure="" procedure="" sensor="" to="" trouble="" with="" —="" —,=""></ref.>