

**Telephone:**  
**Fax:**  
**VAT Registration No.:**

**Trouble code identification**

VAG type 4-digit	Fault location	Probable cause
1111	<u>Engine control module (ECM) - defective</u>	<u>ECM</u>
1231	Vehicle speed sensor (VSS)	Wiring, speedometer, VSS
1232	<u>Idle speed control (ISC) actuator</u>	Throttle valve tight/sticking, wiring, multi-plug incorrectly wired, ISC actuator
2111 <b>1</b>	<u>Crankshaft position (CKP) sensor</u>	Air gap, metal particles, insecure sensor/rotor, wiring, CKP sensor
2113	Camshaft position (CMP) sensor	Air gap, insecure sensor/rotor, wiring, poor connection, fuse, distributor/camshaft alignment, CMP sensor
2121	<u>Closed throttle position (CTP) switch</u>	Accelerator cable adjustment, CTP switch adjustment, wiring, CTP switch
2141	Knock control - control limit exceeded	<u>ECM</u>
2142	<u>Knock sensor (KS) 1</u>	Wiring, KS, ECM
2144	<u>Knock sensor (KS) 2</u>	Wiring, KS, ECM
2212	<u>Throttle position (TP) sensor</u>	Wiring, poor connection, TP sensor
2214	Maximum engine RPM exceeded	Incorrect gear shift, CKP/RPM sensor
2222	<u>Manifold absolute pressure (MAP) sensor</u>	TC wastegate regulating valve, hose connection(s), oil contamination, valve timing, poor connection, wiring, MAP sensor, ECM
2231	<u>Idle speed control (ISC)</u>	Intake leak/blockage, throttle valve tight/sticking, IAC valve or ISC actuator/position sensor
2234	<u>Engine control module (ECM) - supply voltage</u>	Fuse, alternator, battery, current draw with ignition OFF, engine control relay, wiring
2242	Mixture adjustment resistor	Wiring, mixture adjustment resistor
2243	Instrument panel, fuel consumption signal	Wiring short to positive, instrument panel
2312	<u>Engine coolant temperature (ECT) sensor</u>	Wiring, poor connection, ECT sensor
2314	<u>Engine/gearbox electrical connection</u>	Wiring, transmission fault
2322	<u>Intake air temperature (IAT) sensor</u>	Wiring, poor connection, IAT sensor
2323	Volume air flow (VAF) sensor	Intake leak, wiring, VAF sensor

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2324	Mass air flow (MAF) sensor	Intake leak, wiring, MAF sensor
2341	<u>Heated oxygen sensor (HO2S) - lambda control</u>	Heating inoperative, intake/exhaust leak, misfire, fuel level low, fuel pressure/pump, injector(s), EVAP canister purge valve, MAF sensor filament burn-off, wiring, HO2S
2342	<u>Heated oxygen sensor (HO2S)</u>	Wiring, HO2S, heating inoperative, fuel level low
2411	Exhaust gas recirculation temperature (EGRT) sensor	Wiring, EGRT sensor
2412	<u>Intake air temperature (IAT) sensor</u>	Wiring, poor connection, IAT sensor
2413	Mixture control (MC)	Fuel level low, fuel pressure/pump, intake/exhaust leak, misfire, MAF sensor filament burn-off, HO2S, EVAP canister purge valve, injector(s), excessive fuel in engine oil
3434	Oxygen sensor heater relay	Wiring, oxygen sensor heater relay
4312	Exhaust gas recirculation (EGR) solenoid	Wiring, EGR solenoid
4332	<u>Engine control module (ECM) - output stages</u>	Wiring, ECM controlled components
4343	<u>Evaporative emission (EVAP) canister purge valve</u>	Wiring, fuse, EVAP canister purge valve
4411	<u>Injector 1</u>	Wiring, fuse, injector
4412	<u>Injector 2</u>	Wiring, fuse, injector
4413	<u>Injector 3</u>	Wiring, fuse, injector
4414	<u>Injector 4</u>	Wiring, fuse, injector
4421	<u>Injector 5</u>	Wiring, injector
4422	<u>Injector 6</u>	Wiring, injector
4431	Idle air control (IAC) valve	Wiring, IAC valve
4433	<u>Fuel pump relay</u>	Wiring, fuse, <u>Fuel pump relay</u>
4444	No fault found	-

VAG type 5-digit	P type	Fault location	Probable cause
-	P0	Refer to EOBD trouble code table	-
00000	-	No fault found	-
00263	-	Transmission control module (TCM) - incorrect signal	Wiring short to earth, TCM trouble code(s) stored, ECM
00268	-	<u>Idle speed control (ISC) actuator</u>	Wiring, ISC actuator
00281	-	Vehicle speed sensor (VSS)	Wiring, speedometer, VSS
00282	-	<u>Idle speed control (ISC) actuator/throttle motor</u>	Throttle valve tight/sticking, wiring, multi-plug incorrectly wired, ISC actuator/throttle motor
00305	-	Instrument panel, fuel consumption signal	Wiring, instrument panel
00513 <b>1</b>	-	<u>Crankshaft position (CKP) sensor</u>	Air gap, metal particles, insecure sensor/rotor, wiring, CKP sensor
00514	-	<u>Crankshaft position (CKP) sensor</u>	Air gap, insecure sensor/rotor, wiring, poor connection, CKP sensor
00515	-	Except ACU/ADL: Camshaft position (CMP) sensor	Air gap, insecure sensor/rotor, wiring, poor connection, fuse, distributor/camshaft alignment, CMP sensor

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00515	-	ACU/ADL: Crankshaft position (CKP) sensor	Air gap, insecure sensor/rotor, wiring, poor connection, fuse, distributor/camshaft alignment, CKP sensor
00516	-	<u>Closed throttle position (CTP) switch</u>	Accelerator cable adjustment, CTP switch adjustment, throttle valve tight/sticking, wiring, CTP switch
00518	-	<u>Throttle position (TP) sensor</u>	Wiring, poor connection, TP sensor
00519	-	<u>Manifold absolute pressure (MAP) sensor</u>	TC wastegate regulating valve, hose connection(s), oil contamination, valve timing, poor connection, wiring, MAP sensor, ECM
00520	-	Mass air flow (MAF) sensor	Wiring, MAF sensor
00521	-	Mixture adjustment resistor	Wiring, mixture adjustment resistor
00522	-	<u>Engine coolant temperature (ECT) sensor</u>	Wiring, poor connection, ECT sensor
00523	-	<u>Intake air temperature (IAT) sensor</u>	Wiring, poor connection, IAT sensor
00524	-	<u>Knock sensor (KS) 1</u>	Wiring, KS, ECM
00525	-	<u>Heated oxygen sensor (HO2S)</u>	Wiring, HO2S, heating inoperative, fuel level low
00526	-	Stop lamp switch, cruise control	Wiring, stop lamp switch
00527	-	<u>Intake air temperature (IAT) sensor</u>	Wiring, poor connection, IAT sensor
00528	-	Barometric pressure (BARO) sensor	Wiring, BARO sensor
00529	-	<u>Crankshaft position (CKP) sensor</u>	Wiring, CKP sensor
00530	-	<u>Idle speed control (ISC) actuator/position sensor</u>	Wiring, poor connection, multi-plug incorrectly wired, ISC actuator/position sensor
00532	-	<u>Engine control module (ECM) - supply voltage</u>	Fuse, alternator, battery, current draw with ignition OFF, engine control relay, wiring
00533	-	<u>Idle speed control (ISC)</u>	Intake leak/blockage, throttle valve tight/sticking, IAC valve or ISC actuator/position sensor
00534	-	Engine oil temperature (EOT) sensor	Wiring, EOT sensor
00535	-	<u>Engine control module (ECM) - knock control 1</u>	Wiring, KS, ECM
00536	-	<u>Engine control module (ECM) - knock control 2</u>	Wiring, KS, ECM
00537	-	<u>Heated oxygen sensor (HO2S) - lambda control</u>	CO adjustment, heating inoperative, intake/exhaust leak, misfire, fuel level low, fuel pressure/pump, injector(s), EVAP canister purge valve, MAF sensor filament burn-off, wiring, HO2S
00539	-	Fuel temperature sensor	Wiring, fuel temperature sensor
00540	-	<u>Knock sensor (KS) 2</u>	Wiring, KS, ECM
00542	-	Injector needle lift sensor	Air in fuel system, fuel level low, wiring, injector needle lift sensor
00543	-	Maximum engine RPM exceeded	Incorrect gear shift, CKP/RPM sensor, AT fault, ECM
00544	-	Maximum boost pressure exceeded	Hoses interchanged/not connected, hoses blocked/leaking, TC wastegate actuator/regulating valve, MAP sensor
00545	-	<u>ECM/TCM electrical connection</u>	TCM trouble code(s) stored, wiring, transmission fault
00546	-	Data link connector (DLC) - defective	Wiring
00549	-	Instrument panel, fuel consumption signal	Wiring short to positive, instrument panel
00550	-	Start of injection - control	Wiring, fuel injection timing solenoid, injector needle lift sensor, air in fuel system, fuel level low, pump timing
00552	-	Volume air flow (VAF) sensor	Intake leak, wiring, VAF sensor
00553	-	Mass air flow (MAF) sensor	Intake leak, wiring, MAF sensor

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00557	-	Power steering pressure (PSP) switch - short to earth	Wiring short to earth, PSP switch
00560	-	Exhaust gas recirculation (EGR) - control difference	Intake leak, EGR valve/solenoid
00561	-	Mixture control (MC)	Trouble codes 00525/00533 stored, fuel level low, fuel pressure/pump, intake/exhaust leak, misfire, MAF sensor filament burn-off, HO2S, EVAP canister purge valve, injector(s), excessive fuel in engine oil
00575	-	Intake manifold pressure	Intake leak/blockage, MAF sensor, TC wastegate actuator/regulating valve, hoses interchanged/not connected, wiring
00577	-	Knock control, cylinder 1 - control limit exceeded	<u>Fuel pressure, misfire, intake leak, injector(s)</u>
00578	-	Knock control, cylinder 2 - control limit exceeded	<u>Fuel pressure, misfire, intake leak, injector(s)</u>
00579	-	Knock control, cylinder 3 - control limit exceeded	<u>Fuel pressure, misfire, intake leak, injector(s)</u>
00580	-	Knock control, cylinder 4 - control limit exceeded	<u>Fuel pressure, misfire, intake leak, injector(s)</u>
00581	-	Knock control, cylinder 5 - control limit exceeded	<u>Fuel pressure, misfire, intake leak, injector(s)</u>
00582	-	Knock control, cylinder 6 - control limit exceeded	<u>Fuel pressure, misfire, intake leak, injector(s)</u>
00585	-	Exhaust gas recirculation temperature (EGRT) sensor	Wiring, EGRT sensor
00586	-	Exhaust gas recirculation (EGR) system - control	EGR solenoid
00609	-	<u>Ignition amplifier, primary circuit 1</u>	Wiring, ignition amplifier
00610	-	<u>Ignition amplifier, primary circuit 2</u>	Wiring, ignition amplifier
00611	-	<u>Ignition amplifier, primary circuit 3</u>	Wiring, ignition amplifier
00624	-	AC signal - compressor cut-in	Wiring, AC system
00625	-	Vehicle speed signal	Wiring, speedometer, VSS
00626	-	Glow plug warning lamp	Wiring, glow plug warning lamp
00627	-	Fuel filter water level sensor	Water in filter, wiring, fuel filter water level sensor
00628	-	Fuel injection pump control module - engine stop malfunction	Wiring, fuel injection pump
00635	-	<u>Heated oxygen sensor (HO2S) 1, bank 1 - heater circuit malfunction</u>	Wiring, HO2S
00638	-	<u>ECM/TCM electrical connection</u>	Wiring, transmission fault
00640	-	Oxygen sensor heater relay	Wiring, oxygen sensor heater relay
00650	-	Clutch pedal position (CPP) switch - short to positive	Wiring short to positive, CPP switch
00653	-	Transmission control module (TCM)/TR sensor - implausible TR signal	Wiring, transmission fault, poor connection
00667	-	Outside air temperature signal	Wiring, instrument panel, AC system, outside air temperature sensor
00668	-	<u>Engine control module (ECM) - supply voltage low</u>	Battery, wiring, engine control relay

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00670	-	<u>Idle speed control (ISC) actuator position sensor</u>	Wiring, throttle valve, ISC actuator position sensor
00671	-	Cruise control master switch	Wiring, cruise control master switch
00740	-	Camshaft position (CMP) sensor	Wiring, CMP sensor
00741	-	Stop lamp switch/brake pedal position (BPP) switch - implausible ratio	Wiring, both switch positions not synchronised, stop lamp switch, BPP switch
00750	-	Malfunction indicator lamp (MIL) - circuit malfunction	ECM incorrectly coded, wiring, MIL
00758	-	Secondary air injection (AIR) system	AIR solenoid/relay, wiring
00765	-	Fuel quantity adjuster position sensor	Wiring, fuel injection pump
00777	-	Accelerator pedal position (APP) sensor	Incorrectly adjusted, wiring, APP sensor
00792	-	AC pressure switch	Wiring, AC pressure switch
01013	-	AC compressor clutch, load signal	Wiring, AC system
01025	-	Malfunction indicator lamp (MIL)	Wiring, MIL
01028	-	Engine coolant blower motor relay	Wiring, engine coolant blower motor relay
01044	-	<u>Engine control module (ECM) - coding</u>	Incorrectly coded
01050	-	Glow plug monitoring	Fuse, wiring, glow plug relay, glow plugs
01052	-	Fuel lever position sensor	Wiring, fuel lever position sensor
01087	-	<u>Engine control module (ECM) - basic setting</u>	Basic setting not completed, throttle valve tight/sticking
01088	-	Mixture control (MC)	Fuel level low, fuel pressure/pump, MAF sensor, intake/exhaust leak, EVAP canister purge valve, excessive fuel in engine oil, injector(s)
01117	-	Alternator load signal	Wiring, alternator
01119	-	Gear recognition signal - AT	Wiring
01120	-	Camshaft position (CMP) control, bank 1 - mechanical fault	Wiring, fuse, CMP actuator
01121	-	Camshaft position (CMP) control, bank 2 - mechanical fault	Wiring, fuse, CMP actuator
01126	-	Engine RPM signal	Wiring, CKP/RPM sensor, instrument panel
01163	-	Backfire	Intake leak, wiring, ignition amplifier, injector(s)
01165	-	<u>Idle speed control (ISC) actuator/throttle motor</u>	Accelerator cable adjustment, throttle valve, wiring, ISC actuator/throttle motor, basic setting not carried out
01167	-	Full throttle stop solenoid	Wiring, full throttle stop valve
01168	-	Idle speed boost solenoid	Wiring, full throttle stop valve
01169	-	Door contact switch, driver's	Wiring, door contact switch
01170	-	Fuel injection timing sensor	Wiring, fuel injection timing sensor
01177	-	<u>Engine control module (ECM) - defective</u>	ECM
01180	-	<u>Engine/AC electrical connection</u>	Wiring
01182	-	Mass air flow (MAF) sensor/throttle position (TP) sensor - signal variation exceeded	Throttle valve sticking, ISC actuator/throttle motor sticking/mechanically damaged, incorrect throttle control unit, intake leak between MAF sensor and throttle valve, air filter blocked
01183	-	Malfunction indicator lamp (MIL) - circuit malfunction	ECM incorrectly coded, wiring, MIL
01193	-	Engine coolant heater relay 1, low output	Wiring, engine coolant heater relay
01194	-	Engine coolant heater relay 2, high output	Wiring, engine coolant heater relay

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01196	-	CAN data bus, TCM - incorrect signal	Wiring
01204	-	<u>Engine coolant temperature (ECT) sensor</u>	Wiring, ECT sensor
01208	-	<u>Engine control module (ECM) - data changed</u>	<u>ECM</u>
01209	-	Alternator speed signal	Wiring, alternator
01235	-	Secondary air injection (AIR) solenoid	Wiring, AIR solenoid
01237	-	Fuel shut-off solenoid	Wiring, fuel shut-off solenoid
01242	-	<u>Engine control module (ECM) - output stages</u>	Wiring, ECM controlled components
01243	-	Intake manifold air control solenoid	Wiring, intake manifold air control solenoid
01247	-	<u>Evaporative emission (EVAP) canister purge valve</u>	Wiring, fuse, EVAP canister purge valve
01249	-	<u>Injector 1</u>	Wiring, fuse, injector
01250	-	<u>Injector 2</u>	Wiring, fuse, injector
01251	-	<u>Injector 3</u>	Wiring, fuse, injector
01252	-	<u>Injector 4</u>	Wiring, fuse, injector
01253	-	<u>Injector 5</u>	Wiring, injector
01254	-	<u>Injector 6</u>	Wiring, injector
01257	-	Idle air control (IAC) valve	Wiring, IAC valve
01259	-	<u>Fuel pump relay</u>	Wiring, fuse, <u>Fuel pump relay</u>
01262	-	Turbocharger (TC) wastegate regulating valve	Wiring, fuse, TC wastegate regulating valve
01265	-	Exhaust gas recirculation (EGR) solenoid	Wiring, EGR solenoid
01266	-	Glow plug relay	Wiring, glow plug relay
01268	-	Fuel quantity adjuster	Incorrectly set, wiring, fuel injection pump
01269	-	Fuel injection timing solenoid	Wiring, fuel injection timing solenoid
01282	-	Intake manifold air control solenoid	Wiring, intake manifold air control solenoid
01283	-	Intake manifold air control actuator	Wiring, intake manifold flap, intake manifold air control actuator
01312	-	CAN data bus - defective	Trouble code(s) stored in other system(s), wiring
01314	-	<u>Engine control module (ECM), cruise control system - defective</u>	<u>ECM</u>
01315	-	CAN data bus, TCM - no signal	TCM trouble code(s) stored, wiring, matching resistor in ECM
01316	-	CAN data bus, ABS - defective	ABS control module incorrectly coded, wiring
01317	-	CAN data bus, instrumentation	Trouble code(s) stored in other system(s), wiring, instrumentation control module
01318	-	Fuel injection pump control module	Data bus wiring, fuel injection pump
01321	-	CAN data bus, SRS	SRS control module trouble code(s) stored, wiring
01375	-	Engine mounting control solenoid, bank 1 & 2	Wiring, engine mounting control solenoid
01376	-	Fuel injection pump position sensor	Wiring, fuel injection pump position sensor
01437	-	Throttle control unit - basic setting	Basic setting not carried out, CTP switch, ISC actuator/position sensor, TP sensor
3	-		
01440	-	Fuel level signal	Wiring, instrument panel, fuel gauge tank sensor
01441	-	Fuel low level sensor	Wiring, fuel transfer pump, fuel level sensor
01442	-	Engine misfire - fuel pump housing empty	Fuel level low, fuel transfer pump

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01575	-	Auxiliary drive - switched OFF	Auxiliary drive overloaded
01613	-	Fuel cooling pump relay - circuit malfunction	Wiring, fuel cooling pump relay
01656	-	SRS control module - crash signal	Wiring
01686	-	Engine coolant blower motor run-on relay	Wiring, engine coolant blower motor run-on relay
01695	-	Fuel temperature sensor - circuit malfunction	Wiring, fuel temperature sensor
16394	-	Camshaft position (CMP) actuator, intake/left/front, bank 1 - circuit malfunction	Wiring, CMP actuator
16395	-	Camshaft position (CMP), intake/left/front, bank 1 - timing over advanced/system performance	Valve timing, camshaft position (CMP) actuator
16396	-	Camshaft position (CMP), intake/left/front, bank 1 - timing over retarded	Valve timing, camshaft position (CMP) actuator
16398	-	Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 - timing over advanced/system performance	Valve timing, camshaft position (CMP) actuator
16399	-	Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 - timing over retarded	Valve timing, camshaft position (CMP) actuator
16414	-	<u>Heated oxygen sensor (HO2S) 1, bank 1, heater control - circuit malfunction</u>	Wiring open circuit, HO2S
16415	-	<u>Heated oxygen sensor (HO2S) 1, bank 1, heater control - circuit low</u>	Wiring short to earth, HO2S
16416	-	<u>Heated oxygen sensor (HO2S) 1, bank 1, heater control - circuit high</u>	Wiring short to positive, HO2S
16474	-	Fuel metering solenoid - open circuit	Wiring open circuit, fuel metering solenoid
16475	-	Fuel metering solenoid - short to earth	Wiring short to earth, fuel metering solenoid
16476	-	Fuel metering solenoid - short to positive	Wiring short to earth, fuel metering solenoid
16485	-	Mass air flow (MAF) sensor, bank 1 - range/performance problem	Intake leak, wiring, MAF sensor
16486	-	Mass air flow (MAF) sensor, bank 1 - low input	Intake leak, air filter blocked, wiring short to earth, fuse, MAF sensor
16487	-	Mass air flow (MAF) sensor, bank 1 - high input	Wiring short to positive, earth wire defective, MAF sensor
16490	-	<u>Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor - range/performance problem</u>	Intake/exhaust leak, wiring, MAP sensor, BARO sensor
16491	-	<u>Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor - low input</u>	Wiring short to earth, MAP sensor, BARO sensor
16492	-	<u>Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor - high input</u>	Wiring short to positive, MAP sensor, BARO sensor
16496	-	<u>Intake air temperature (IAT) sensor - low input</u>	Wiring short to earth, IAT sensor
16497	-	<u>Intake air temperature (IAT) sensor - high input</u>	Wiring open circuit/short to positive, earth wire defective, IAT sensor

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16500	-	<u>Engine coolant temperature (ECT) sensor - range/performance problem</u>	Coolant thermostat, poor connection, wiring, ECT sensor
16501	-	<u>Engine coolant temperature (ECT) sensor - low input</u>	Coolant thermostat, wiring short to earth, ECT sensor
16502	-	<u>Engine coolant temperature (ECT) sensor - high input</u>	Coolant thermostat, wiring open circuit/short to positive, earth wire defective, ECT sensor
16504	-	<u>Throttle position (TP) sensor - circuit malfunction</u>	Poor connection, wiring, TP sensor
16505	-	<u>Throttle position (TP) sensor - range/performance problem</u>	Poor connection, TP sensor
16506	-	<u>Throttle position (TP) sensor - low input</u>	Signal wire short to earth, supply wire defective, TP sensor
16507	-	<u>Throttle position (TP) sensor - high input</u>	Signal wire open circuit/short to positive, earth wire defective, TP sensor
16514	-	<u>Heated oxygen sensor (HO2S) 1, bank 1 - circuit malfunction</u>	Heating inoperative, poor connection, wiring, HO2S
16515	-	<u>Heated oxygen sensor (HO2S) 1, bank 1 - voltage low</u>	Wiring short to earth, HO2S
16516	-	<u>Heated oxygen sensor (HO2S) 1, bank 1 - voltage high</u>	Wiring short to positive, HO2S
16517	-	<u>Heated oxygen sensor (HO2S) 1, bank 1 - slow response</u>	Heating inoperative, wiring, HO2S
16518	-	<u>Heated oxygen sensor (HO2S) 1, bank 1 - no activity detected</u>	Wiring open circuit, heating inoperative, HO2S
16519	-	<u>Heated oxygen sensor (HO2S) 1, bank 1 - heater circuit malfunction</u>	Fuse, wiring, HO2S
16520	-	<u>Heated oxygen sensor (HO2S) 2, bank 1 - circuit malfunction</u>	Heating inoperative, wiring, HO2S
16521	-	<u>Heated oxygen sensor (HO2S) 2, bank 1 - low voltage</u>	Wiring short to earth, exhaust leak, HO2S
16522	-	<u>Heated oxygen sensor (HO2S) 2, bank 1 - high voltage</u>	Wiring short to positive, HO2S
16523	-	<u>Heated oxygen sensor (HO2S) 2, bank 1 - slow response</u>	Heating inoperative, wiring, HO2S
16524	-	<u>Heated oxygen sensor (HO2S) 2, bank 1 - no activity detected</u>	Wiring, HO2S
16525	-	<u>Heated oxygen sensor (HO2S) 2, bank 1 - heater circuit malfunction</u>	Wiring, HO2S
16534	-	<u>Heated oxygen sensor (HO2S) 1, bank 2 - circuit malfunction</u>	Wiring, HO2S
16535	-	<u>Heated oxygen sensor (HO2S) 1, bank 2 - low voltage</u>	Wiring short to earth, HO2S
16536	-	<u>Heated oxygen sensor (HO2S) 1, bank 2 - high voltage</u>	Wiring short to positive, HO2S
16537	-	<u>Heated oxygen sensor (HO2S) 1, bank 2 - slow response</u>	Heating inoperative, wiring, HO2S
16538	-	<u>Heated oxygen sensor (HO2S) 1, bank 2 - no activity detected</u>	Wiring, HO2S
16540	-	<u>Heated oxygen sensor (HO2S) 2, bank 2 - circuit malfunction</u>	Heating inoperative, wiring, HO2S

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16541	-	<u>Heated oxygen sensor (HO2S) 2, bank 2 - low voltage</u>	Wiring short to earth, exhaust leak, HO2S
16542	-	<u>Heated oxygen sensor (HO2S) 2, bank 2 - high voltage</u>	Wiring short to positive, HO2S
16543	-	<u>Heated oxygen sensor (HO2S) 2, bank 2 - slow response</u>	Heating inoperative, wiring, HO2S
16544	-	<u>Heated oxygen sensor (HO2S) 2, bank 2 - no activity detected</u>	Wiring, HO2S
16545	-	<u>Heated oxygen sensor (HO2S) 2, bank 2 - heater circuit malfunction</u>	Wiring, HO2S
16554	-	Fuel trim (FT), bank 1 - malfunction	Intake leak, AIR system, fuel pressure/pump, injector(s), EVAP canister purge valve, HO2S
16555	-	System too lean, bank 1	Intake/exhaust leak, AIR system, MAF sensor, fuel pressure/pump, injector(s), EVAP canister purge valve, HO2S
16556	-	System too rich, bank 1	EVAP canister purge valve, fuel pressure, injector(s), HO2S
16557	-	Fuel trim (FT), bank 2 - malfunction	Fuel pressure/pump, injector(s), AIR system, hose connection(s), intake leak
16558	-	System too lean, bank 2	Fuel pressure/pump, injector(s), intake/exhaust leak, AIR system, hose connection(s)
16559	-	System too rich, bank 2	<u>Fuel pressure, injector(s), EVAP canister purge valve</u>
16575	-	Fuel rail pressure (FRP) sensor - range/performance problem	Wiring, FRP sensor
16576	-	Fuel rail pressure (FRP) sensor - low input	Wiring short to earth, FRP sensor
16577	-	Fuel rail pressure (FRP) sensor - high input	Wiring short to positive, FRP sensor
16578	-	Fuel rail pressure (FRP) sensor - circuit intermittent	Wiring open circuit, FRP sensor
16581	-	Engine oil temperature (EOT) sensor - low input	Wiring short to earth, EOT sensor
16582	-	Engine oil temperature (EOT) sensor - high input	Wiring short to positive, EOT sensor
16585	-	<u>Injector 1 - circuit malfunction</u>	Wiring, injector
16586	-	<u>Injector 2 - circuit malfunction</u>	Wiring, injector
16587	-	<u>Injector 3 - circuit malfunction</u>	Wiring, injector
16588	-	<u>Injector 4 - circuit malfunction</u>	Wiring, injector
16589	-	<u>Injector 5 - circuit malfunction</u>	Wiring, injector
16590	-	<u>Injector 6 - circuit malfunction</u>	Wiring, injector
16603	-	Engine over speed condition	Incorrect gear change
16605	-	<u>Throttle position (TP) sensor B - range/performance problem</u>	Wiring, TP sensor
16606	-	<u>Throttle position (TP) sensor B - low input</u>	Wiring short to earth, TP sensor
16607	-	<u>Throttle position (TP) sensor B - high input</u>	Wiring short to positive, TP sensor
16610	-	Accelerator pedal position (APP) sensor A/B - range/performance problem	Wiring, APP sensor
16611	-	Accelerator pedal position (APP) sensor A - low input	Wiring short to earth, APP sensor
16612	-	Accelerator pedal position (APP) sensor A - high input	Wiring short to positive, APP sensor

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16614	-	<u>Fuel pump relay - circuit malfunction</u>	Wiring, fuel pump relay
16618	-	Engine boost condition - limit exceeded	Hose connection(s), wiring, TC wastegate regulating valve, TC wastegate
16619	-	Engine boost condition - limit not reached	Hose connection(s), wiring, TC wastegate regulating valve, TC wastegate
16620	-	<u>Manifold absolute pressure (MAP) sensor A, TC system - range/performance problem</u>	Intake/exhaust leak, hose connection(s), MAP sensor
16621	-	<u>Manifold absolute pressure (MAP) sensor A, TC system - low input</u>	Wiring short to earth, MAP sensor
16622	-	<u>Manifold absolute pressure (MAP) sensor A, TC system - high input</u>	Wiring short to positive, MAP sensor
16627	-	Turbocharger (TC) wastegate regulating valve A - circuit malfunction	Wiring, TC wastegate regulating valve
16629	-	Turbocharger (TC) wastegate regulating valve A - circuit low	Wiring short to earth, TC wastegate regulating valve
16630	-	Turbocharger (TC) wastegate regulating valve A - circuit high	Wiring short to positive, TC wastegate regulating valve
16645	-	<u>Injector 1 - circuit low</u>	Wiring short to earth, injector
16646	-	<u>Injector 1 - circuit high</u>	Wiring short to positive, injector
16648	-	<u>Injector 2 - circuit low</u>	Wiring short to earth, injector
16649	-	<u>Injector 2 - circuit high</u>	Wiring short to positive, injector
16651	-	<u>Injector 3 - circuit low</u>	Wiring short to earth, injector
16652	-	<u>Injector 3 - circuit high</u>	Wiring short to positive, injector
16654	-	<u>Injector 4 - circuit low</u>	Wiring short to earth, injector
16655	-	<u>Injector 4 - circuit high</u>	Wiring short to positive, injector
16657	-	<u>Injector 5 - circuit low</u>	Wiring short to earth, injector
16658	-	<u>Injector 5 - circuit high</u>	Wiring short to positive, injector
16660	-	<u>Injector 6 - circuit low</u>	Wiring short to earth, injector
16661	-	<u>Injector 6 - circuit high</u>	Wiring short to positive, injector
16684	-	Random/multiple cylinder(s) - misfire detected	Spark plug(s), HT lead(s), injector(s), ignition coil(s), low compression, wiring
16685	-	Cylinder 1 - misfire detected	Spark plug, HT lead(s), injector, ignition coil, low compression, wiring
16686	-	Cylinder 2 - misfire detected	Spark plug, HT lead(s), injector, ignition coil, low compression, wiring
16687	-	Cylinder 3 - misfire detected	Spark plug, HT lead(s), injector, ignition coil, low compression, wiring
16688	-	Cylinder 4 - misfire detected	Spark plug, HT lead(s), injector, ignition coil, low compression, wiring
16689	-	Cylinder 5 - misfire detected	Spark plug, HT lead(s), injector, ignition coil, low compression, wiring
16690	-	Cylinder 6 - misfire detected	Spark plug, HT lead(s), injector, ignition coil, low compression, wiring
16705	-	<u>Crankshaft position (CKP) sensor/engine speed (RPM) sensor - range/performance problem</u>	Air gap, metal particles, insecure sensor/rotor, wiring, CKP/RPM sensor

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16706	-	<u>Crankshaft position (CKP) sensor/engine speed (RPM) sensor - no signal</u>	Wiring, CKP/RPM sensor
16709	-	<u>Knock sensor (KS) 1, bank 1 - circuit malfunction</u>	Wiring, poor connection, KS
16710	-	<u>Knock sensor (KS) 1, bank 1 - range/performance problem</u>	Wiring, KS incorrectly tightened, KS
16711	-	<u>Knock sensor (KS) 1, bank 1 - low input</u>	Insecure KS, poor connection, wiring short to earth, incorrectly tightened, KS
16712	-	<u>Knock sensor (KS) 1, bank 1 - high input</u>	Wiring short to positive, KS incorrectly tightened, KS
16716	-	<u>Knock sensor (KS) 2, bank 2 - low input</u>	Insecure KS, poor connection, wiring short to earth, KS incorrectly tightened, KS
16717	-	<u>Knock sensor (KS) 2, bank 2 - high input</u>	Wiring short to positive, KS incorrectly tightened, KS
16719	-	<u>Crankshaft position (CKP) sensor - circuit malfunction</u>	Wiring, CKP/RPM sensor
16724	-	Camshaft position (CMP) sensor A, bank 1 - circuit malfunction	Wiring, CMP sensor
16725	-	Camshaft position (CMP) sensor A, bank 1 - range/performance problem	Insecure sensor/rotor, air gap, wiring, CMP sensor
16726	-	Camshaft position (CMP) sensor A, bank 1 - low input	Wiring short to earth, CMP sensor
16727	-	Camshaft position (CMP) sensor A, bank 1 - high input	Wiring short to positive, CMP sensor
16730	-	Camshaft position (CMP) sensor A, bank 2 - range/performance problem	Insecure sensor/rotor, air gap, wiring, CMP sensor
2	-	Camshaft position (CMP) sensor A, bank 2 - low input	Wiring short to earth, CMP sensor
16731	-	Camshaft position (CMP) sensor A, bank 2 - low input	Wiring short to earth, CMP sensor
2	-	Camshaft position (CMP) sensor A, bank 2 - high input	Wiring short to positive, CMP sensor
16732	-	Camshaft position (CMP) sensor A, bank 2 - high input	Wiring short to positive, CMP sensor
16735	-	<u>Ignition coil, cylinder 1, primary/secondary - circuit malfunction</u>	Wiring, ignition amplifier, ignition coil
16736	-	<u>Ignition coil, cylinder 2, primary/secondary - circuit malfunction</u>	Wiring, ignition amplifier, ignition coil
16737	-	<u>Ignition coil, cylinder 3, primary/secondary - circuit malfunction</u>	Wiring, ignition amplifier, ignition coil
16738	-	<u>Ignition coil, cylinder 4, primary/secondary - circuit malfunction</u>	Wiring, ignition amplifier, ignition coil
16764	-	Glow plugs - circuit A malfunction	Wiring, glow plug relay, fuse, glow plugs
16784	-	Exhaust gas recirculation (EGR) system - flow malfunction	Basic setting not carried out, EGR valve/solenoid
16785	-	Exhaust gas recirculation (EGR) system - insufficient flow detected	Basic setting not carried out, EGR valve/solenoid
16786	-	Exhaust gas recirculation (EGR) system - excessive flow detected	Basic setting not carried out, EGR valve/solenoid
16787	-	Exhaust gas recirculation (EGR) system - circuit malfunction	Wiring, EGR valve/solenoid
16788	-	Exhaust gas recirculation (EGR) system - range/performance problem	Hose connection(s), wiring, EGR valve/solenoid

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16791	-	Exhaust gas recirculation (EGR) valve position sensor - low input	Wiring short to earth, EGR valve position sensor
16792	-	Exhaust gas recirculation (EGR) valve position sensor - high input	Wiring short to positive, EGR valve position sensor
16795	-	Secondary air injection (AIR) system - incorrect flow detected	AIR pump, AIR valve, AIR hose(s)
16796	-	Secondary air injection (AIR) solenoid A - circuit malfunction	Wiring, AIR solenoid
16802	-	Secondary air injection (AIR) pump relay A - circuit malfunction	Wiring, AIR pump relay
16804	-	Catalytic converter system, bank 1 - efficiency below threshold	Catalytic converter
16806	-	Main catalytic converter, bank 1 - efficiency below threshold	Catalytic converter
16814	-	Catalytic converter system, bank 2 - efficiency below threshold	Catalytic converter
16824	-	<u>Evaporative emission (EVAP) system - malfunction</u>	Hose connection(s), intake leak, EVAP canister purge valve
16825	-	<u>Evaporative emission (EVAP) system - incorrect flow detected</u>	Hose connection(s), intake leak, EVAP canister purge valve
16826	-	<u>Evaporative emission (EVAP) system - small leak detected</u>	Hose connection(s), intake leak, EVAP canister, EVAP canister purge valve
16827	-	<u>Evaporative emission (EVAP) canister purge valve - circuit malfunction</u>	Wiring, EVAP canister purge valve
16828	-	<u>Evaporative emission (EVAP) canister purge valve - open circuit</u>	Wiring open circuit, EVAP canister purge valve
16829	-	<u>Evaporative emission (EVAP) canister purge valve - short circuit</u>	Wiring short circuit, EVAP canister purge valve
16839	-	<u>Evaporative emission (EVAP) system - large leak detected</u>	Hose connection(s), intake leak, EVAP canister, EVAP canister purge valve
16845	-	Fuel tank level sensor - range/performance problem	Wiring, fuel tank level sensor
16864	-	Engine coolant blower motor 1 - circuit malfunction	Wiring, engine coolant blower motor
16865	-	Engine coolant blower motor 2 - circuit malfunction	Wiring, engine coolant blower motor
16885	-	Vehicle speed sensor (VSS) - range/performance problem	Wiring, speedometer, VSS, CAN data bus
16887	-	Vehicle speed sensor (VSS) - intermittent/erratic/high input	Wiring, other connected system, instrument panel, VSS
16890	-	<u>Idle speed control (ISC) system - rpm lower than expected</u>	Throttle control unit
16891	-	<u>Idle speed control (ISC) system - rpm higher than expected</u>	Throttle control unit
16894	-	<u>Closed throttle position (CTP) switch - circuit malfunction</u>	Wiring, CTP switch
16916	-	AC refrigerant pressure sensor - low input	AC refrigerant pressure too low (incorrectly charged), wiring, AC refrigerant pressure sensor

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16917	-	AC refrigerant pressure sensor - high input	AC refrigerant pressure too high (cooling fault/incorrectly charged), wiring, AC refrigerant pressure sensor
16928	-	Exhaust gas recirculation temperature (EGRT) sensor, bank 1 - circuit malfunction	Wiring, EGRT sensor
16929	-	Exhaust gas recirculation temperature (EGRT) sensor, bank 1 - low input	Wiring short to earth, EGRT sensor
16930	-	Exhaust gas recirculation temperature (EGRT) sensor, bank 1 - high input	Wiring short to positive, EGRT sensor
16935	-	Power steering pressure (PSP) sensor/switch - range/performance problem	Wiring, PSP switch
16944	-	System voltage - malfunction	Fuse(s), battery, wiring, engine control relay
16946	-	System voltage - low	Fuse(s), battery, wiring, engine control relay
16947	-	System voltage - high	Alternator, wiring
16952	-	Cruise control master/selector switch, SET signal - malfunction	Wiring, cruise control master/selector switch
16955	-	Stop lamp switch/brake pedal position (BPP) switch - circuit malfunction	Wiring, stop lamp switch, BPP switch
16983	-	CAN data bus - malfunction	Wiring
16985	-	<u>Engine control module (ECM) - memory check sum error</u>	<u>ECM</u>
16987	-	<u>Engine control module (ECM) - KAM error</u>	<u>ECM</u>
16988	-	<u>Engine control module (ECM) - RAM error</u>	<u>ECM</u>
16989	-	<u>Engine control module (ECM) - ROM error</u>	<u>ECM</u>
16990	-	<u>Engine control module (ECM) - PCM processor fault</u>	<u>ECM</u>
17022	-	Throttle actuator control, bank 1 - range/performance problem	Basic setting not carried out, throttle control unit, APP sensor
<b>3</b>	-	<u>Engine control module (ECM), knock control - defective</u>	<u>ECM</u>
17026	-	<u>Engine control module (ECM), knock control - defective</u>	<u>ECM</u>
17029	-	Air conditioning	Wiring, AC system
17034	-	Malfunction indicator lamp (MIL) - circuit malfunction	Wiring, MIL
17040	-	Instrument panel, fuel consumption signal - circuit malfunction	Wiring
17071	-	Engine control relay - short to earth	Wiring short to earth, engine control relay
17072	-	Engine control relay - short to positive	Wiring short to positive, engine control relay
17075	-	Engine coolant blower motor 1 - short to earth	Wiring short to earth, engine coolant blower motor
17076	-	Engine coolant blower motor 1 - short to positive	Wiring short to positive, engine coolant blower motor
17077	-	Engine coolant blower motor 2 - short to earth	Wiring short to earth, engine coolant blower motor
17078	-	Engine coolant blower motor 2 - short to positive	Wiring short to positive, engine coolant blower motor
17091	-	Transmission range (TR) sensor - low input	Wiring short to earth, TR sensor








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17092	-	Transmission range (TR) sensor - high input	Wiring short to positive, TR sensor
-	P0	Refer to EOBD trouble code table	-
17428	P1020	<u>Fuel pressure - control limit exceeded</u>	Wiring, fuel pressure sensor, fuel pressure control valve, high pressure fuel pump
17431	P1023	Fuel pressure control valve - short to earth	Wiring short to earth, fuel pressure control valve
17432	P1024	Fuel pressure control valve - open circuit	Wiring open circuit, fuel pressure control valve
17433	P1025	Fuel pressure control valve - mechanical fault	Fuel pressure control valve
17434	P1026	Intake manifold air control solenoid - short to positive	Wiring short to positive, intake manifold air control solenoid
17435	P1027	Intake manifold air control solenoid - short to earth	Wiring short to earth, intake manifold air control solenoid
17436	P1028	Intake manifold air control solenoid - open circuit	Wiring open circuit, intake manifold air control solenoid
17437	P1029	Intake manifold air control valve position sensor - upper limit not reached	Air control flap tight/sticking, hose connection(s), intake manifold air control actuator
17438	P1030	Intake manifold air control valve position sensor - lower limit not reached	Air control flap tight/sticking, hose connection(s), intake manifold air control actuator
17439	P1031	Intake manifold air control valve position sensor - specification not attained	Air control flap tight/sticking, hose connection(s), intake manifold air control actuator, intake manifold air control solenoid
17440 	P1032	Nitrogen oxides (NOx) sensor - signal too high	Catalytic converter, wiring short to positive, NOx sensor
17441 	P1033	Nitrogen oxides (NOx) sensor - signal too low	Exhaust leak, wiring short to earth, NOx sensor
17442 	P1034	Nitrogen oxides (NOx) sensor - signal outside tolerance	Catalytic converter, exhaust leak, wiring, NOx sensor
17443 	P1035	Nitrogen oxides (NOx) sensor - range/performance problem	Wiring, heating inoperative, NOx sensor
17444 	P1036	Nitrogen oxides (NOx) heater sensor - short to positive	Wiring short to positive, NOx sensor
17445 	P1037	Nitrogen oxides (NOx) heater sensor - short to earth	Wiring short to earth, NOx sensor
17446 	P1038	Nitrogen oxides (NOx) heater sensor - open circuit	Wiring open circuit, NOx sensor
17447	P1039	Injector 1, supply voltage - short circuit	Wiring, injector
17448	P1040	Injector 1, supply voltage - circuit malfunction	Wiring, injector
17449	P1041	Injector 2, supply voltage - short circuit	Wiring, injector
17450	P1042	Injector 2, supply voltage - circuit malfunction	Wiring, injector
17451	P1043	Injector 3, supply voltage - short circuit	Wiring, injector
17452	P1044	Injector 3, supply voltage - circuit malfunction	Wiring, injector

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17453	P1045	Injector 4, supply voltage - short circuit	Wiring, injector
17454	P1046	Injector 4, supply voltage - circuit malfunction	Wiring, injector
17455	P1047	Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 - circuit malfunction	Wiring, camshaft position (CMP) actuator
17456	P1048	Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 - short to positive	Wiring short to positive, camshaft position (CMP) actuator
17457	P1049	Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 - short to earth	Wiring short to earth, camshaft position (CMP) actuator
17458	P1050	Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 - open circuit	Wiring open circuit, camshaft position (CMP) actuator
17471	P1063	<u>Fuel pressure - control limit not reached</u>	Air in fuel system, fuel leak, fuel lift pump, fuel bypass valve, fuel pressure control valve, high pressure fuel pump
17472	P1064	<u>Fuel pressure - mechanical fault</u>	Air in fuel system, fuel leak, fuel lift pump, fuel bypass valve, fuel pressure control valve, high pressure fuel pump
17473	P1065	<u>Fuel pressure - system deviation</u>	Air in fuel system, fuel leak, fuel lift pump, fuel bypass valve, fuel pressure control valve, high pressure fuel pump
17474	P1066	Intake manifold air control solenoid - short to positive	Wiring short to positive, intake manifold air control solenoid
17475	P1067	Intake manifold air control solenoid - short to earth	Wiring short to earth, intake manifold air control solenoid
17476	P1068	Intake manifold air control solenoid - open circuit	Wiring open circuit, intake manifold air control solenoid
17477 <b>6</b>	P1069	Nitrogen oxides (NOx) sensor - heater control - short to earth	Wiring short to earth, NOx sensor
17478 <b>6</b>	P1070	Nitrogen oxides (NOx) sensor - heater control - short to positive	Wiring short to positive, NOx sensor
17479 <b>6</b>	P1071	Nitrogen oxides (NOx) sensor - heater control - incorrect signal	Wiring, NOx sensor
17480 <b>6</b>	P1072	Nitrogen oxides (NOx) sensor - heater control - circuit malfunction	Wiring, NOx sensor
17501	P1093	Mixture control (MC), bank 1 - malfunction	Fuel pressure/pump, injector(s) intake leak
17509	P1101	<u>Heated oxygen sensor (HO2S) 1, bank 1 - low voltage</u>	Intake/exhaust leak, fuel pressure/pump, wiring short to earth, HO2S
17510	P1102	<u>Heated oxygen sensor (HO2S) 1, bank 1 - heater short to positive</u>	Wiring short to positive, HO2S
17511	P1103	<u>Heated oxygen sensor (HO2S) 1, bank 1 - heater output too low</u>	Wiring, HO2S
17513	P1105	<u>Heated oxygen sensor (HO2S) 2, bank 1 - heater short to positive</u>	Wiring short to positive, HO2S
17514	P1106	<u>Heated oxygen sensor (HO2S) 1, bank 2 - low voltage/air leak</u>	Intake/exhaust leak, fuel pressure/pump, wiring short to earth, HO2S
17515	P1107	<u>Heated oxygen sensor (HO2S) 1, bank 2 - heater short to positive</u>	Wiring short to positive, HO2S

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17518	P1110	<u>Heated oxygen sensor (HO2S) 2, bank 2 - heater short to positive</u>	Wiring short to positive, HO2S
17519	P1111	<u>Heated oxygen sensor (HO2S) control, bank 1 - system too lean</u>	Intake/exhaust leak, injector blocked, MAF sensor, fuel pressure/pump, HO2S
17520	P1112	<u>Heated oxygen sensor (HO2S) control, bank 1 - system too rich</u>	Excessive fuel in engine oil, injector leaking, fuel pressure, EVAP canister purge valve, MAF sensor, HO2S
17521	P1113	<u>Heated oxygen sensor (HO2S) 1, bank 1 - heater resistance too high</u>	Wiring, HO2S
17522	P1114	<u>Heated oxygen sensor (HO2S) 2, bank 1 - heater resistance too high</u>	Wiring, HO2S
17523	P1115	<u>Heated oxygen sensor (HO2S) 1, bank 1 - heater short to earth</u>	Wiring short to earth, HO2S
17524	P1116	<u>Heated oxygen sensor (HO2S) 1, bank 1 - heater open circuit</u>	Wiring open circuit, HO2S
17525	P1117	<u>Heated oxygen sensor (HO2S) 2, bank 1 - heater short to earth</u>	Wiring short to earth, HO2S
17526	P1118	<u>Heated oxygen sensor (HO2S) 2, bank 1 - heater open circuit</u>	Wiring open circuit, HO2S
17527	P1119	<u>Heated oxygen sensor (HO2S) 1, bank 2 - heater short to earth</u>	Wiring short to earth, HO2S
17528	P1120	<u>Heated oxygen sensor (HO2S) 1, bank 2 - heater open circuit</u>	Wiring open circuit, HO2S
17529	P1121	<u>Heated oxygen sensor (HO2S) 2, bank 2 - heater short to earth</u>	Wiring short to earth, HO2S
17530	P1122	<u>Heated oxygen sensor (HO2S) 2, bank 2 - heater open circuit</u>	Wiring open circuit, HO2S
17535	P1127	Long term fuel trim, bank 1 - system too rich	<u>Fuel pressure, EVAP canister purge valve, injector(s)</u>
17536	P1128	Long term fuel trim, bank 1 - system too lean	Fuel pressure/pump, injector(s), intake/exhaust leak, AIR system, hose leak
17537	P1129	Long term fuel trim, bank 2 - system too rich	<u>Fuel pressure, EVAP canister purge valve, injector(s)</u>
17538	P1130	Long term fuel trim, bank 2 - system too lean	Fuel pressure/pump, injector(s), intake/exhaust leak, AIR system, hose leak
17540	P1132	<u>Heated oxygen sensor (HO2S) 1, bank 1 &amp; 2 - heater control - circuit high</u>	Wiring short to positive, HO2S
17541	P1133	<u>Heated oxygen sensor (HO2S) 1, bank 1 &amp; 2 - heater control - circuit low</u>	Wiring open circuit/short to earth, HO2S
17544	P1136	Long term fuel trim, idling, bank 1 - system too lean	Fuel pressure/pump, injector(s), intake/exhaust leak, AIR system, hose leak
17545	P1137	Long term fuel trim, idling, bank 1 - system too rich	<u>Fuel pressure, injector(s), EVAP canister purge valve</u>
17546	P1138	Long term fuel trim, idling, bank 2 - system too lean	Fuel pressure/pump, injector(s), intake/exhaust leak, AIR system, hose leak
17547	P1139	Long term fuel trim, idling, bank 2 - system too rich	<u>Fuel pressure, injector(s), EVAP canister purge valve</u>
17548	P1140	<u>Heated oxygen sensor (HO2S) 2, bank 2 - heater resistance too high</u>	Wiring, HO2S
17549	P1141	Load calculation - implausible value	Wiring, MAF sensor

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17550 <b>3</b>	P1142	Load calculation - too low	Throttle control unit, MAF sensor, APP sensor
17551 <b>3</b>	P1143	Load calculation - too high	Throttle control unit, MAF sensor, APP sensor
17552	P1144	Mass air flow (MAF) sensor - open circuit/short to earth	Wiring open circuit/short to earth, MAF sensor
17553	P1145	Mass air flow (MAF) sensor - short to positive	Wiring short to positive, MAF sensor
17554	P1146	Mass air flow (MAF) sensor - supply voltage	Operating voltage too high/low, wiring
17555	P1147	Heated oxygen sensor 1, bank 2 - lambda regulation, system too lean	Intake leak, wiring, HO2S
17556	P1148	Heated oxygen sensor 1, bank 2 - lambda regulation, system too rich	Exhaust leak, wiring, HO2S
17557	P1149	<u>Heated oxygen sensor (HO2S) 1, bank 1 - implausible lambda control value</u>	Exhaust leak, wiring, HO2S
17558	P1150	<u>Heated oxygen sensor (HO2S) 1, bank 2 - implausible lambda control value</u>	Exhaust leak, wiring, HO2S
17559	P1151	Long term fuel trim 1, bank 1 - below lean limit	Fuel pressure/pump, injectors, intake/exhaust leak, HO2S
17560	P1152	Long term fuel trim 2, bank 1 - below lean limit	Fuel pressure/pump, injectors, intake/exhaust leak, AIR system, HO2S
17561	P1153	<u>Heated oxygen sensor (HO2S) 2, bank 1 &amp; 2 - interchanged</u>	<u>HO2S 2 on bank 1 &amp; 2 incorrectly installed</u>
17563	P1155	<u>Manifold absolute pressure (MAP) sensor - short to positive</u>	Wiring short to positive, MAP sensor
17564	P1156	<u>Manifold absolute pressure (MAP) sensor - open circuit/short to earth</u>	Wiring open circuit/short to earth, MAP sensor
17565	P1157	<u>Manifold absolute pressure (MAP) sensor - supply voltage</u>	Wiring, MAP sensor
17566	P1158	<u>Manifold absolute pressure (MAP) sensor - range/performance problem</u>	Wiring, hose connection(s), MAP sensor
17567	P1159	Mass air flow (MAF) sensor, bank 1 & 2 - implausible ratio	EGR system, intake leak, wiring, MAF sensor 1/2
17568	P1160	<u>Intake air temperature (IAT) sensor - short to earth</u>	Wiring short to earth, IAT sensor
17569	P1161	<u>Intake air temperature (IAT) sensor - open circuit/short to positive</u>	Wiring open circuit/short to positive, IAT sensor
17570	P1162	Fuel temperature sensor - short to earth	Wiring short to earth, fuel temperature sensor
17571	P1163	Fuel temperature sensor - open circuit/short to positive	Wiring open circuit/short to positive, fuel temperature sensor
17572	P1164	Fuel temperature sensor - range/performance problem	Wiring, fuel temperature sensor
17573	P1165	Long term fuel trim 1, bank 1 - above rich limit	Fuel pressure/pump, injectors, EVAP canister purge valve, EGR system, HO2S, intake/exhaust system
17574	P1166	Long term fuel trim 2, bank 1 - above rich limit	Fuel pressure/pump, injectors, EVAP canister purge valve, EGR system, HO2S, intake/exhaust system

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17579	P1171	Throttle motor position sensor 2 - range/performance problem	Wiring, throttle valve tight/sticking, throttle motor position sensor
17580	P1172	Throttle motor position sensor 2 - low input	Wiring short to earth, throttle motor position sensor
17581	P1173	Throttle motor position sensor 2 - high input	Wiring short to positive, throttle motor position sensor
17582	P1174	Fuel measurement system, bank 1 - injection timing incorrect	Fuel pressure/pump, injector(s), intake/exhaust leak, EGR system, EVAP canister purge valve, HO2S
17584	P1176	Lambda correction after catalyst, bank 1 - control limit reached	Intake leak, HO2S
17585	P1177	Lambda correction after catalyst, bank 2 - control limit reached	Intake leak, HO2S
17586	P1178	<u>Heated oxygen sensor (HO2S) 1, bank 1, pump current - open circuit</u>	Wiring open circuit, HO2S
17587	P1179	<u>Heated oxygen sensor (HO2S) 1, bank 1, pump current - short to earth</u>	Wiring short to earth, HO2S
17588	P1180	<u>Heated oxygen sensor (HO2S) 1, bank 1, pump current - short to positive</u>	Wiring short to positive, HO2S
17589	P1181	<u>Heated oxygen sensor (HO2S) 1, bank 1, reference voltage - open circuit</u>	Wiring open circuit, HO2S, HT leads, spark plugs, misfire detection
17590	P1182	<u>Heated oxygen sensor (HO2S) 1, bank 1, reference voltage - short to earth</u>	Wiring short to earth, HO2S, HT leads, spark plugs, misfire detection
17591	P1183	<u>Heated oxygen sensor (HO2S) 1, bank 1, reference voltage - short to positive</u>	Wiring short to positive, HO2S, HT leads, spark plugs, misfire detection
17595	P1187	<u>Heated oxygen sensor (HO2S) 1, bank 1 or 2 - circuit malfunction</u>	Wiring, HO2S
17598	P1190	<u>Heated oxygen sensor (HO2S) 1, bank 1, reference voltage - range/performance problem</u>	Wiring, HO2S, HT leads, spark plugs, misfire detection
17599	P1191	<u>Heated oxygen sensor (HO2S) 1, bank 1 &amp; 2 - interchanged</u>	<u>HO2S 1 on bank 1 &amp; 2 incorrectly installed</u>
17600	P1192	Fuel pressure sensor - supply voltage	Wiring, fuel pressure sensor
17601	P1193	Fuel pressure sensor - open circuit/short to positive	Wiring open circuit/short to positive
17602	P1194	Fuel pressure control valve - short to positive	Wiring short to positive, fuel pressure control valve
17604	P1196	<u>Heated oxygen sensor (HO2S) 1, bank 1, heater circuit malfunction</u>	Wiring, HO2S
17605	P1197	<u>Heated oxygen sensor (HO2S) 1, bank 2, heater circuit malfunction</u>	Wiring, HO2S
17606	P1198	<u>Heated oxygen sensor (HO2S) 2, bank 1, heater circuit malfunction</u>	Wiring, HO2S
17607	P1199	<u>Heated oxygen sensor (HO2S) 2, bank 2, heater circuit malfunction</u>	Wiring, HO2S
17609	P1201	<u>Injector 1 - circuit malfunction</u>	Wiring, injector
17610	P1202	<u>Injector 2 - circuit malfunction</u>	Wiring, injector
17611	P1203	<u>Injector 3 - circuit malfunction</u>	Wiring, injector
17612	P1204	<u>Injector 4 - circuit malfunction</u>	Wiring, injector
17613	P1205	<u>Injector 5 - circuit malfunction</u>	Wiring, injector
17614	P1206	<u>Injector 6 - circuit malfunction</u>	Wiring, injector

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17621	P1213	<u>Injector 1 - short to positive</u>	Wiring short to positive, injector
17622	P1214	<u>Injector 2 - short to positive</u>	Wiring short to positive, injector
17623	P1215	<u>Injector 3 - short to positive</u>	Wiring short to positive, injector
17624	P1216	<u>Injector 4 - short to positive</u>	Wiring short to positive, injector
17625	P1217	<u>Injector 5 - short to positive</u>	Wiring short to positive, injector
17626	P1218	<u>Injector 6 - short to positive</u>	Wiring short to positive, injector
17633	P1225	<u>Injector 1 - short to earth</u>	Wiring short to earth, injector
17634	P1226	<u>Injector 2 - short to earth</u>	Wiring short to earth, injector
17635	P1227	<u>Injector 3 - short to earth</u>	Wiring short to earth, injector
17636	P1228	<u>Injector 4 - short to earth</u>	Wiring short to earth, injector
17637	P1229	<u>Injector 5 - short to earth</u>	Wiring short to earth, injector
17638	P1230	<u>Injector 6 - short to earth</u>	Wiring short to earth, injector
17645	P1237	<u>Injector 1 - open circuit</u>	Wiring open circuit, injector
17646	P1238	<u>Injector 2 - open circuit</u>	Wiring open circuit, injector
17647	P1239	<u>Injector 3 - open circuit</u>	Wiring open circuit, injector
17648	P1240	<u>Injector 4 - open circuit</u>	Wiring open circuit, injector
17649	P1241	<u>Injector 5 - open circuit</u>	Wiring open circuit, injector
17650	P1242	<u>Injector 6 - open circuit</u>	Wiring open circuit, injector
17653	P1245	Injector needle lift sensor - short to earth	Wiring short to earth, injector needle lift sensor
17654	P1246	Injector needle lift sensor - range/performance problem	Injector needle lift sensor, injector pipe defective, fuel level low
17655	P1247	Injector needle lift sensor - open circuit/short to positive	Wiring open circuit/short to positive, injector needle lift sensor
17656	P1248	Start of injection - control difference	Fuel injection timing solenoid, injector needle lift sensor, fuel level low, pump timing
17658	P1250	Fuel tank level sensor - low input	Fuel level too low
17659	P1251	Fuel injection timing solenoid - short to positive	Wiring short to positive
17660	P1252	Fuel injection timing solenoid - open circuit/short to earth	Wiring open circuit/short to earth, fuel injection timing solenoid
17661	P1253	Instrument panel, fuel consumption signal - short to earth	Wiring short to earth, instrument panel
17662	P1254	Instrument panel, fuel consumption signal - short to positive	Wiring short to positive, instrument panel
17663	P1255	<u>Engine coolant temperature (ECT) sensor - short to earth</u>	Wiring short to earth, ECT sensor
17664	P1256	<u>Engine coolant temperature (ECT) sensor - open circuit/short to positive</u>	Wiring open circuit/short to positive, ECT sensor
17668	P1260	<u>Injector 1 - implausible signal</u>	No control
17669	P1261	<u>Injector 1 - control limit exceeded</u>	Control period too long, wiring, injector
17670	P1262	<u>Injector 1 - control limit not reached</u>	Control period too short, fuel level low, air in fuel system
17671	P1263	<u>Injector 2 - implausible signal</u>	No control
17672	P1264	<u>Injector 2 - control limit exceeded</u>	Control period too long, wiring, injector
17673	P1265	<u>Injector 2 - control limit not reached</u>	Control period too short, fuel level low, air in fuel system
17674	P1266	<u>Injector 3 - implausible signal</u>	No control
17675	P1267	<u>Injector 3 - control limit exceeded</u>	Control period too long, wiring, injector

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17676	P1268	<u>Injector 3 - control limit not reached</u>	Control period too short, fuel level low, air in fuel system
17677	P1269	<u>Injector 4 - implausible signal</u>	No control
17678	P1270	<u>Injector 4 - control limit exceeded</u>	Control period too long, wiring, injector
17679	P1271	<u>Injector 4 - control limit not reached</u>	Control period too short, fuel level low, air in fuel system
17686	P1278	Fuel metering solenoid - short to positive	Wiring short to positive, fuel metering solenoid
17687	P1279	Fuel metering solenoid - open circuit/short to earth	Wiring open circuit/short to earth, fuel metering solenoid
17689	P1281	Fuel metering solenoid - short to earth	Wiring short to earth, fuel metering solenoid
17690	P1282	Fuel metering solenoid - open circuit	Wiring open circuit, fuel metering solenoid
17695	P1287	Turbocharger (TC) bypass valve - open circuit	Wiring open circuit, TC bypass valve
17696	P1288	Turbocharger (TC) bypass valve - short to positive	Wiring short to positive, TC bypass valve
17697	P1289	Turbocharger (TC) bypass valve - short to earth	Wiring short to earth, TC bypass valve
17698	P1290	<u>Engine coolant temperature (ECT) sensor, ECM controlled cooling system - high input</u>	Wiring, ECT sensor
17699	P1291	<u>Engine coolant temperature (ECT) sensor, ECM controlled cooling system - high input</u>	Wiring, ECT sensor
17700	P1292	Engine coolant thermostat - open circuit	Wiring open circuit, engine coolant thermostat
17701	P1293	Engine coolant thermostat - short to positive	Wiring short to positive, engine coolant thermostat
17702	P1294	Engine coolant thermostat - short to earth	Wiring short to earth, engine coolant thermostat
17703	P1295	Turbocharger (TC), bypass - flow malfunction	TC wastegate regulating valve, hose connection(s), injector
17704	P1296	Engine cooling system - malfunction	ECT sensor, coolant thermostat
17705	P1297	Turbocharger (TC)/throttle valve, hose connection - pressure loss	Hose connection
17707	P1299	Fuel metering solenoid - circuit malfunction	Wiring, fuel metering solenoid
17708	P1300	Random/multiple cylinder(s) - misfire detected	Fuel level low, fuel gauge tank sensor
17733	P1325	Knock control, cylinder 1 - control limit reached	Poor quality fuel, incorrect fuel, insecure engine component, KS incorrectly tightened/defective, shield wiring open circuit, poor connection
17734	P1326	Knock control, cylinder 2 - control limit reached	Poor quality fuel, incorrect fuel, insecure engine component, KS incorrectly tightened/defective, shield wiring open circuit, poor connection
17735	P1327	Knock control, cylinder 3 - control limit reached	Poor quality fuel, incorrect fuel, insecure engine component, KS incorrectly tightened/defective, shield wiring open circuit, poor connection
17736	P1328	Knock control, cylinder 4 - control limit reached	Poor quality fuel, incorrect fuel, insecure engine component, KS incorrectly tightened/defective, shield wiring open circuit, poor connection
17737	P1329	Knock control, cylinder 5 - control limit reached	Poor quality fuel, incorrect fuel, insecure engine component, KS incorrectly tightened/defective, shield wiring open circuit, poor connection
17738	P1330	Knock control, cylinder 6 - control limit reached	Poor quality fuel, incorrect fuel, insecure engine component, KS incorrectly tightened/defective, shield wiring open circuit, poor connection

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17743 <b>3</b>	P1335	Engine torque control - limit reached	Throttle control unit, hose(s), TC system, MAP sensor, IAT sensor, MAF sensor, ECT sensor
17744 <b>3</b>	P1336	Engine torque monitoring - control limit exceeded	Hose(s), TC system, throttle control unit, IAT sensor, MAP sensor, MAF sensor, ECT sensor, APP sensor
17745	P1337	Camshaft position (CMP) sensor, bank 1 - short to earth	Wiring short to earth, CMP sensor
17746	P1338	Camshaft position (CMP) sensor, bank 1 - open circuit/short to positive	Wiring open circuit/short to positive, CMP sensor
17747	P1339	<u>Crankshaft position (CKP) sensor/engine speed (RPM) sensor - interchanged</u>	Multi-plugs incorrectly connected
17748	P1340	Camshaft position (CMP) sensor 1/bank 1/crankshaft position (CKP) sensor - out of sequence	Valve timing, CKP/CMP sensor installation, CKP sensor rotor
17749	P1341	<u>Ignition amplifier, primary circuit 1 - short to earth</u>	Wiring short to earth, ignition amplifier, CMP sensor, HT leads, spark plugs
17750	P1342	<u>Ignition amplifier, primary circuit 1 - short to positive</u>	Wiring short to positive, ignition amplifier, CMP sensor, HT leads, spark plugs
17751	P1343	<u>Ignition amplifier, primary circuit 2 - short to earth</u>	Wiring short to earth, ignition amplifier, CMP sensor, HT leads, spark plugs
17752	P1344	<u>Ignition amplifier, primary circuit 2 - short to positive</u>	Wiring short to positive, ignition amplifier, CMP sensor, HT leads, spark plugs
17753	P1345	<u>Ignition amplifier, primary circuit 3 - short to earth</u>	Wiring short to earth, ignition amplifier, CMP sensor, HT leads, spark plugs
17754	P1346	<u>Ignition amplifier, primary circuit 3 - short to positive</u>	Wiring short to positive, ignition amplifier, CMP sensor, HT leads, spark plugs
17755	P1347	Camshaft position (CMP) sensor 2/bank 2/crankshaft position (CKP) sensor - out of sequence	Valve timing, CKP/CMP sensor installation, CKP sensor rotor
17756	P1348	<u>Ignition amplifier, primary circuit 1 - open circuit</u>	Wiring short to earth, ignition amplifier, CMP sensor, HT leads, spark plugs
17757	P1349	<u>Ignition amplifier, primary circuit 2 - open circuit</u>	Wiring short to positive, ignition amplifier, CMP sensor, HT leads, spark plugs
17758	P1350	<u>Ignition amplifier, primary circuit 3 - open circuit</u>	Wiring short to positive, ignition amplifier, CMP sensor, HT leads, spark plugs
17759	P1351	Camshaft position (CMP) sensor, bank 1 - range/performance problem	Ignore trouble code, erase fault memory
17762	P1354	Fuel quantity adjuster position sensor	Wiring, fuel injection pump
17763 <b>4</b>	P1355	Ignition coil/amplifier, cylinder 1 - open circuit	Wiring open circuit, ignition coil/amplifier
17764 <b>4</b>	P1356	Ignition coil/amplifier, cylinder 1 - short to positive	Wiring short to positive, ignition coil/amplifier
17765 <b>4</b>	P1357	Ignition coil/amplifier, cylinder 1 - short to earth	Wiring short to earth, ignition coil/amplifier
17766 <b>5</b>	P1358	Ignition coil/amplifier, cylinder 2 - open circuit	Wiring open circuit, ignition coil/amplifier

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17767 5	P1359	Ignition coil/amplifier, cylinder 2 - short to positive	Wiring short to positive, ignition coil/amplifier
17768 5	P1360	Ignition coil/amplifier, cylinder 2 - short to earth	Wiring short to earth, ignition coil/amplifier
17769	P1361	Ignition coil/amplifier, cylinder 3 - open circuit	Wiring open circuit, ignition coil/amplifier
17770	P1362	Ignition coil/amplifier, cylinder 3 - short to positive	Wiring short to positive, ignition coil/amplifier
17771	P1363	Ignition coil/amplifier, cylinder 3 - short to earth	Wiring short to earth, ignition coil/amplifier
17772	P1364	Ignition coil/amplifier, cylinder 4 - open circuit	Wiring open circuit, ignition coil/amplifier
17773	P1365	Ignition coil/amplifier, cylinder 4 - short to positive	Wiring short to positive, ignition coil/amplifier
17774	P1366	Ignition coil/amplifier, cylinder 4 - short to earth	Wiring short to earth, ignition coil/amplifier
17775	P1367	Ignition coil/amplifier, cylinder 5 - open circuit	Wiring open circuit, ignition coil/amplifier
17776	P1368	Ignition coil/amplifier, cylinder 5 - short to positive	Wiring short to positive, ignition coil/amplifier
17777	P1369	Ignition coil/amplifier, cylinder 5 - short to earth	Wiring short to earth, ignition coil/amplifier
17778	P1370	Ignition coil/amplifier, cylinder 6 - open circuit	Wiring open circuit, ignition coil/amplifier
17779	P1371	Ignition coil/amplifier, cylinder 6 - short to positive	Wiring short to positive, ignition coil/amplifier
17780	P1372	Ignition coil/amplifier, cylinder 6 - short to earth	Wiring short to earth, ignition coil/amplifier
17793	P1385	<u>Engine control module (ECM) - defective</u>	<u>ECM</u>
17794	P1386	<u>Engine control module (ECM), knock control - defective</u>	<u>ECM</u>
17795	P1387	<u>Engine control module (ECM), BARO sensor - defective</u>	<u>ECM</u>
17796	P1388	<u>Engine control module (ECM), ETS - defective</u>	<u>ECM</u>
17799	P1391	Camshaft position (CMP) sensor 2/bank 2 - short to earth	Wiring short to earth, CMP sensor
17800	P1392	Camshaft position (CMP) sensor 2/bank 2 - open circuit/short to positive	Wiring open circuit/short to positive, CMP sensor
17801	P1393	<u>Ignition amplifier, primary circuit 1 - circuit malfunction</u>	Wiring, ignition amplifier, HT leads, spark plugs
17802	P1394	<u>Ignition amplifier, primary circuit 2 - circuit malfunction</u>	Wiring, ignition amplifier, HT leads, spark plugs
17803	P1395	<u>Ignition amplifier, primary circuit 3 - circuit malfunction</u>	Wiring, ignition amplifier, HT leads, spark plugs
17805	P1397	<u>Crankshaft position (CKP) sensor/engine speed (RPM) sensor - control limit reached</u>	Insecure/damaged rotor, CKP/RPM sensor

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17806	P1398	<u>Crankshaft position (CKP) sensor/engine speed (RPM) sensor - short to earth</u>	Wiring short to earth, CKP/RPM sensor
17807	P1399	<u>Crankshaft position (CKP) sensor/engine speed (RPM) sensor - short to positive</u>	Wiring short to positive, CKP/RPM sensor
17808	P1400	Exhaust gas recirculation (EGR) valve/solenoid, bank 1 - circuit malfunction	Wiring, EGR valve
17809	P1401	Exhaust gas recirculation (EGR) valve/solenoid, bank 1 - short to earth	Wiring short to earth, EGR valve
17810	P1402	Exhaust gas recirculation (EGR) valve/solenoid, bank 1 - short to positive	Wiring short to positive, EGR valve/solenoid
17811	P1403	Exhaust gas recirculation (EGR) system - control difference	Basic setting not carried out, EGR system
17812	P1404	Exhaust gas recirculation (EGR) system - basic setting	Basic setting not carried out, EGR system
17815	P1407	Exhaust gas recirculation temperature (EGRT) sensor - low input	Wiring short to earth, EGRT sensor
17816	P1408	Exhaust gas recirculation temperature (EGRT) sensor - high input	Wiring short to positive, earth wire defective, EGRT sensor
17817	P1409	<u>Evaporative emission (EVAP) canister purge valve - circuit malfunction</u>	Wiring, EVAP canister purge valve
17818	P1410	<u>Evaporative emission (EVAP) canister purge valve - short to positive</u>	Wiring short to positive, EVAP canister purge valve
17819	P1411	Secondary air injection (AIR) system, bank 2 - insufficient flow detected	Intake leak, hose(s) blocked/leaking, AIR valve/solenoid
17822	P1414	Secondary air injection (AIR) system, bank 2 - leak detected	Intake leak, hose(s) leaking, AIR valve/solenoid
17823	P1415	Exhaust gas recirculation (EGR) valve position sensor - lower limit exceeded	Basic setting not carried out
17824	P1416	Exhaust gas recirculation (EGR) valve position sensor - upper limit exceeded	Basic setting not carried out
17828	P1420	Secondary air injection (AIR) valve/solenoid - circuit malfunction	Wiring, AIR solenoid
17829	P1421	Secondary air injection (AIR) valve/solenoid - short to earth	Wiring short to earth, AIR valve/solenoid
17830	P1422	Secondary air injection (AIR) valve/solenoid - short to positive	Wiring short to positive, AIR valve/solenoid
17831	P1423	Secondary air injection (AIR) system, bank 1 - insufficient flow detected	Hose connection(s), AIR valve/solenoid
17832	P1424	Secondary air injection (AIR) system, bank 1 - leak detected	AIR valve, exhaust leak
17833	P1425	<u>Evaporative emission (EVAP) canister purge valve - short to earth</u>	Wiring short to earth, EVAP canister purge valve
17834	P1426	<u>Evaporative emission (EVAP) canister purge valve - open circuit</u>	Wiring open circuit, EVAP canister purge valve
17835	P1427	Vacuum pump, brakes - short to positive	Wiring short to positive, vacuum pump
17836	P1428	Vacuum pump, brakes - short to earth	Wiring short to earth, vacuum pump
17837	P1429	Vacuum pump, brakes - open circuit	Wiring open circuit, vacuum pump
17838	P1430	Vacuum pump, brakes - open circuit/short to positive	Wiring open circuit/short to positive, vacuum pump

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17839	P1431	Vacuum pump, brakes - open circuit/short to earth	Wiring open circuit/short to earth, vacuum pump
17840	P1432	Secondary air injection (AIR) valve/solenoid - open circuit	Wiring open circuit, fuse, AIR valve/solenoid
17841	P1433	Secondary air injection (AIR) pump relay - open circuit	Wiring open circuit, fuse, AIR pump relay
17842	P1434	Secondary air injection (AIR) pump relay - short to positive	Wiring short to positive, AIR pump relay
17843	P1435	Secondary air injection (AIR) pump relay - short to earth	Wiring short to earth, AIR pump relay
17844	P1436	Secondary air injection (AIR) pump relay - circuit malfunction	Wiring, AIR pump relay
17845	P1437	Exhaust gas recirculation (EGR) valve/solenoid, bank 2 - short to positive	Wiring short to positive, EGR valve/solenoid
17846	P1438	Exhaust gas recirculation (EGR) valve/solenoid, bank 2 - open circuit/short to earth	Wiring open circuit/short to earth, EGR valve/solenoid
17847	P1439	Exhaust gas recirculation (EGR) valve position sensor - basic setting	Basic setting not carried out, EGR system
17848	P1440	Exhaust gas recirculation (EGR) valve - open circuit	Wiring open circuit, EGR valve
17849	P1441	Exhaust gas recirculation (EGR) valve/solenoid, bank 1 - open circuit/short to earth	Wiring open circuit/short to earth, EGR solenoid
17850	P1442	Exhaust gas recirculation (EGR) valve position sensor - high input	Wiring short to positive, EGR valve position sensor
17851	P1443	Exhaust gas recirculation (EGR) valve position sensor - low input	Wiring short to earth, EGR valve position sensor
17852	P1444	Exhaust gas recirculation (EGR) valve position sensor - range/performance problem	Wiring, EGR valve position sensor
17858	P1450	Secondary air injection (AIR) system - short to positive	Wiring short to positive, AIR relay
17859	P1451	Secondary air injection (AIR) system - short to earth	Wiring short to earth, AIR relay
17860	P1452	Secondary air injection (AIR) system - open circuit	Wiring open circuit, AIR relay
17861	P1453	Exhaust gas recirculation temperature (EGRT) sensor 1 - open circuit/short to positive	Wiring open circuit/short to positive, EGRT sensor
17862	P1454	Exhaust gas recirculation temperature (EGRT) sensor 1 - short to earth	Wiring short to earth, EGRT sensor
17863	P1455	Exhaust gas recirculation temperature (EGRT) sensor 1 - range/performance problem	Exhaust leak, wiring, EGRT sensor
17864	P1456	Exhaust gas recirculation temperature (EGRT) control, bank 1 - control limit reached	EGRT sensor

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17865	P1457	Exhaust gas recirculation temperature (EGRT) sensor 2 - open circuit/short to positive	Wiring open circuit/short to positive, EGRT sensor
17866	P1458	Exhaust gas recirculation temperature (EGRT) sensor 2 - short to earth	Wiring short to earth, EGRT sensor
17867	P1459	Exhaust gas recirculation temperature (EGRT) sensor 2 - range/performance problem	Exhaust leak, wiring, EGRT sensor
17868	P1460	Exhaust gas recirculation temperature (EGRT) control, bank 2 - control limit reached	EGRT sensor
17869	P1461	Exhaust gas recirculation temperature (EGRT) control, bank 1 - range/performance problem	Exhaust leak/blockage, EGRT sensor
17870	P1462	Exhaust gas recirculation temperature (EGRT) control, bank 2 - range/performance problem	Exhaust leak/blockage, EGRT sensor
17887	P1479	Vacuum system, brakes - mechanical fault	Vacuum pump
17908	P1500	<u>Fuel pump relay - circuit malfunction</u>	Wiring, fuel pump relay
17909	P1501	<u>Fuel pump relay - short to earth</u>	Wiring short to earth, fuel pump relay
17910	P1502	<u>Fuel pump relay - short to positive</u>	Wiring short to positive, fuel pump relay
17911	P1503	Alternator load signal	Wiring, alternator
17912	P1504	<u>Intake system - leak detected</u>	Intake leak, EGR system, EVAP system, hose connection(s), throttle control unit
3			
17913	P1505	<u>Closed throttle position (CTP) switch - does not close</u>	Throttle cable/valve, wiring open circuit/short to positive, CTP switch adjustment/defective, ECM
17914	P1506	<u>Closed throttle position (CTP) switch - does not open</u>	Moisture ingress, wiring short to earth, CTP switch adjustment/defective, ECM
17915	P1507	<u>Idle speed control (ISC) - lower limit reached</u>	Throttle control unit/basic setting, intake/exhaust leak, mechanical fault, AC signals
17916	P1508	<u>Idle speed control (ISC) - upper limit reached</u>	Throttle control unit/basic setting, intake/exhaust leak, mechanical fault, AC signals
17917	P1509	Idle air control (IAC) valve - circuit malfunction	Wiring, IAC valve
17918	P1510	Idle air control (IAC) valve - short to positive	Wiring open circuit/short to earth, IAC valve
17919	P1511	Intake manifold air control solenoid 1 - current circuit	Wiring, intake manifold air control solenoid
17920	P1512	Intake manifold air control solenoid 1 - short to positive	Wiring short to positive, intake manifold air control solenoid
17921	P1513	Intake manifold air control solenoid 2 - short to positive	Wiring short to positive, intake manifold air control solenoid
17922	P1514	Intake manifold air control solenoid 2 - short to earth	Wiring short to earth, intake manifold air control solenoid
17923	P1515	Intake manifold air control solenoid 1 - short to earth	Wiring short to earth, intake manifold air control solenoid
17924	P1516	Intake manifold air control solenoid 1 - open circuit	Wiring open circuit, intake manifold air control solenoid
17925	P1517	Engine control relay - circuit malfunction	Wiring, engine control relay

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17926	P1518	Engine control relay - short to positive	Wiring short to positive, engine control relay
17927	P1519	Camshaft position (CMP) control, bank 1 - malfunction	Cylinder head oil pressure too low, CMP actuator sticking/defective
17928	P1520	Intake manifold air control solenoid 2 - open circuit	Wiring open circuit, intake manifold air control solenoid
17930	P1522	Camshaft position (CMP) control, bank 2 - malfunction	Cylinder head oil pressure too low, CMP actuator sticking/defective
17931	P1523	SRS crash signal received	Airbag triggered
17932	P1524	<u>Fuel pump relay - open circuit/short to earth</u>	Wiring open circuit/short to earth, fuel pump relay
17933	P1525	Camshaft position (CMP) actuator, bank 1 - circuit malfunction	Wiring, CMP actuator
17934	P1526	Camshaft position (CMP) actuator, bank 1 - short to positive	Wiring short to positive, CMP actuator
17935	P1527	Camshaft position (CMP) actuator, bank 1 - short to earth	Wiring short to earth, CMP actuator
17936	P1528	Camshaft position (CMP) actuator, bank 1 - open circuit	Wiring open circuit, CMP actuator
17937	P1529	Camshaft position (CMP) actuator - short to positive	Wiring short to positive, CMP actuator
17938	P1530	Camshaft position (CMP) actuator - short to earth	Wiring short to earth, CMP actuator
17939	P1531	Camshaft position (CMP) actuator - open circuit	Wiring open circuit, CMP actuator
17940	P1532	Idle control - lean running speed below specification	Throttle control unit
3			
17941	P1533	Camshaft position (CMP) actuator, bank 2 - circuit malfunction	Wiring, CMP actuator
17942	P1534	Camshaft position (CMP) actuator, bank 2 - short to positive	Wiring short to positive, CMP actuator
17943	P1535	Camshaft position (CMP) actuator, bank 2 - short to earth	Wiring short to earth, CMP actuator
17944	P1536	Camshaft position (CMP) actuator, bank 2 - open circuit	Wiring open circuit, CMP actuator
17945	P1537	Fuel shut-off solenoid - malfunction	Fuel shut-off solenoid (leaking/sticking)
17946	P1538	Fuel shut-off solenoid - open circuit/short to earth	Wiring open circuit/short to earth, fuel shut-off solenoid
17947	P1539	Clutch pedal position (CPP) switch - range/performance problem	Wiring, CPP switch
17948	P1540	Vehicle speed signal - high input	Excessive vehicle speed, instrument panel defective
17949	P1541	<u>Fuel pump relay - open circuit</u>	Wiring open circuit, fuel pump relay
17950	P1542	Throttle motor position sensor 1 - range/performance problem	Throttle valve requires cleaning, wiring, throttle motor position sensor
17951	P1543	Throttle motor position sensor 1 - low input	Wiring short to earth, throttle motor position sensor
17952	P1544	Throttle motor position sensor 1 - high input	Wiring short to positive, throttle motor position sensor

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17953 <b>3</b>	P1545	Throttle valve control - malfunction	Throttle valve tight/sticking, wiring, throttle control unit
17954	P1546	Turbocharger (TC) wastegate regulating valve - short to positive	Wiring short to positive, TC wastegate regulating valve
17955	P1547	Turbocharger (TC) wastegate regulating valve - short to earth	Wiring short to earth, TC wastegate regulating valve
17956	P1548	Turbocharger (TC) wastegate regulating valve - open circuit	Wiring open circuit, TC wastegate regulating valve
17957	P1549	Turbocharger (TC) wastegate regulating valve - open circuit/short to earth	Wiring open circuit/short to earth, TC wastegate regulating valve
17958	P1550	Turbocharger (TC) pressure - control difference	Intake/exhaust leak, hoses interchanged/not connected, MAP sensor, TC wastegate regulating valve, turbocharger (TC) wastegate actuator, TC
17961 <b>3</b>	P1553	<u>Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor - range/performance problem</u>	Intake/exhaust leak, EGR system, EVAP canister purge valve, throttle control unit, wiring, MAP sensor, BARO sensor
17962 <b>3</b>	P1554	Throttle control unit - basic setting conditions	Basic setting conditions not met
17963	P1555	Turbocharger (TC) pressure - upper limit exceeded	Hoses interchanged/not connected, TC wastegate regulating valve, turbocharger (TC) wastegate actuator, TC
17964	P1556	Turbocharger (TC) pressure - control limit not reached	TC wastegate regulating valve, intake leak, TC defective
17965	P1557	Turbocharger (TC) pressure - control limit exceeded	Hose connection interchanged/not connected
17966	P1558	<u>Idle speed control (ISC) actuator/throttle motor - circuit malfunction</u>	Wiring, ISC actuator/throttle motor
17967 <b>3</b>	P1559	Throttle control unit - basic setting malfunction	Accelerator pedal or starter motor operated during basic setting
17968	P1560	Maximum engine RPM exceeded	Incorrect gear shift, wiring open circuit, CKP/RPM sensor
17969	P1561	Fuel quantity adjuster - control difference	Wiring, fuel injection pump
17970	P1562	Fuel quantity adjuster - upper stop value	Fuel quantity adjuster blocked/defective, stop value reached
17971	P1563	Fuel quantity adjuster - lower stop value	Fuel quantity adjuster blocked/defective, stop value reached
17972 <b>3</b>	P1564	Throttle control unit - voltage low during basic setting	Battery, wiring
17973 <b>3</b>	P1565	Throttle control unit - lower stop not reached	Throttle valve tight/sticking, ISC actuator
17974	P1566	AC compressor, load signal - implausible signal	Wiring, AC system
17976 <b>3</b>	P1568	Throttle control unit - mechanical fault	Throttle valve tight/sticking
17977	P1569	Cruise control master switch	Wiring, cruise control master switch
17978	P1570	<u>Engine control module (ECM) - immobilizer active</u>	Incorrect/damaged key, incorrectly coded, ECM/immobilizer replacement without coding, wiring, immobilizer defective
17979	P1571	Engine mounting control solenoid, bank 2 - short to positive	Wiring short to positive, engine mounting control solenoid

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17980	P1572	Engine mounting control solenoid, bank 2 - short to earth	Wiring short to earth, engine mounting control solenoid
17981	P1573	Engine mounting control solenoid, bank 2 - open circuit	Wiring open circuit, engine mounting control solenoid
17983	P1575	Engine mounting control solenoid, bank 1 - short to positive	Wiring short to positive, engine mounting control solenoid
17984	P1576	Engine mounting control solenoid, bank 1 - short to earth	Wiring short to earth, engine mounting control solenoid
17985	P1577	Engine mounting control solenoid, bank 1 - open circuit	Wiring open circuit, engine mounting control solenoid
17987 <b>3</b>	P1579	Throttle control unit - basic setting	Basic setting not carried out
17988	P1580	Throttle motor, bank 1 - circuit malfunction	Wiring, throttle motor
17989 <b>3</b>	P1581	Throttle control unit - basic setting	Basic setting not carried out
17990	P1582	Idle speed adaptation - limit reached	Intake/exhaust leak, AIR system, fuel pressure/pump, injector(s), EVAP canister purge valve
17994	P1586	Engine mounting control solenoid, bank 1 & 2 - short to positive	Wiring short to positive, engine mounting control solenoid
17997	P1589	AC/heater air temperature control switch - short to earth	Wiring short to earth, AC/heater air temperature control switch
17998	P1590	AC/heater air temperature control switch - open circuit	Wiring open circuit, AC/heater air temperature control switch
18000 <b>2</b>	P1592	Barometric pressure (BARO) sensor/manifold absolute pressure (MAP) sensor - implausible ratio	TC system, MAP sensor
18001 <b>3</b>	P1593	Altitude adaption - signal outside tolerance	Intake leak, MAF sensor, throttle control unit
18007	P1599	Idle control - lean running speed above specification	IAC valve
18008	P1600	<u>Engine control module (ECM) - supply voltage low from ignition switch</u>	Battery, alternator, wiring open circuit
18009	P1601	<u>Engine control module (ECM) - supply voltage</u>	Wiring, engine control relay
18010	P1602	<u>Engine control module (ECM) - supply voltage low from battery</u>	Battery was disconnected, battery discharged, alternator, wiring open circuit, fuse
18011	P1603	<u>Engine control module (ECM) - defective</u>	<u>ECM</u>
18012	P1604	<u>Engine control module (ECM) - defective</u>	<u>ECM</u>
18014	P1606	Rough road signal - circuit malfunction	ABS control module trouble code(s) stored, CAN data bus
18016	P1608	Power steering pressure (PSP) switch - circuit malfunction	Wiring, PSP switch
18017	P1609	<u>Engine control module (ECM) - crash switch-off triggered</u>	Airbag triggered
18018	P1610	<u>Engine control module (ECM) - defective</u>	<u>ECM</u>
18019	P1611	Malfunction indicator lamp (MIL) - short to earth	Wiring short to earth
18020	P1612	<u>Engine control module (ECM) - coding</u>	Incorrectly coded

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18021	P1613	Malfunction indicator lamp (MIL) - open circuit/short to positive	Wiring open circuit/short to positive
18023	P1615	Engine oil temperature (EOT) sensor - range/performance problem	Engine oil level, wiring, EOT sensor
18024	P1616	Glow plug warning lamp - short to positive	Wiring short to positive
18025	P1617	Glow plug warning lamp - open circuit/short to earth	Bulb, wiring open circuit/short to earth
18026	P1618	Glow plug relay - short to positive	Wiring short to positive, glow plug relay
18027	P1619	Glow plug relay - open circuit/short to earth	Wiring open circuit/short to earth, glow plug relay
18028	P1620	Instrument panel, ECT signal - open circuit/short to positive	Wiring open circuit/short to positive, instrument panel
18029	P1621	Instrument panel, ECT signal - short to earth	Wiring short to earth, instrument panel
18030	P1622	Instrument panel, ECT signal - implausible signal	Wiring, instrument panel, ECT sensor
18031	P1623	CAN data bus - no signal	Trouble code(s) stored in other system(s), wiring, matching resistor in ECM
18032	P1624	Malfunction indicator lamp (MIL) - request signal active	Trouble code(s) stored in other system(s)
18033	P1625	CAN data bus, TCM - incorrect signal	TCM trouble code(s) stored, TCM incorrectly coded, wiring, matching resistor in ECM
18034	P1626	CAN data bus, TCM - no signal	TCM trouble code(s) stored, TCM incorrectly coded, wiring, matching resistor in ECM
18037	P1629	CAN data bus, cruise control - no signal	Cruise control trouble code(s) stored, wiring, matching resistor in ECM
18038	P1630	Accelerator pedal position (APP) sensor 1 - low input	Wiring short to earth, APP sensor
18039	P1631	Accelerator pedal position (APP) sensor 1 - high input	Wiring short to positive, APP sensor
18040	P1632	Accelerator pedal position (APP) sensor - supply voltage	Operating voltage too high/low, wiring
18041	P1633	Accelerator pedal position (APP) sensor 2 - low input	Wiring short to earth, APP sensor
18042	P1634	Accelerator pedal position (APP) sensor 2 - high input	Wiring short to positive, APP sensor
18043	P1635	CAN data bus, AC - no signal	AC control module trouble code(s) stored, wiring, matching resistor in ECM
18044	P1636	CAN data bus, SRS - no signal	SRS control module trouble code(s) stored, wiring, matching resistor in ECM
18045	P1637	CAN data bus, electronic CE - no signal	Trouble code(s) stored, wiring, matching resistor in ECM
18047	P1639	Accelerator pedal position (APP) sensor 1/2 - range/performance problem	Wiring, APP sensor
18048	P1640	Engine control module (ECM) - defective	<u>ECM</u>
18050	P1642	SRS control module - system malfunction	Trouble code(s) stored
18053	P1645	CAN data bus, 4WD - no signal	4WD trouble code(s) stored, wiring, matching resistor in ECM
18056	P1648	CAN data bus - defective	Wiring, matching resistor in ECM
18057	P1649	CAN data bus, ABS - no signal	ABS control module trouble code(s) stored, wiring, matching resistor in ECM

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18058	P1650	CAN data bus, instrumentation - no signal	Instrumentation control module trouble code(s) stored, wiring, matching resistor in ECM
18060	P1652	Transmission control module (TCM) - system malfunction	Trouble code(s) stored
18061	P1653	ABS control module - system malfunction	Trouble code(s) stored
18062	P1654	Instrumentation control module - system malfunction	Trouble code stored for engine oil level/temperature sensor
18064	P1656	AC signal - short to earth	Wiring short to earth
18065	P1657	AC signal - short to positive	Wiring
18066	P1658	CAN data bus, cruise control - incorrect signal	Cruise control trouble code(s) stored, wiring, matching resistor in ECM
18067	P1659	Engine coolant blower motor, speed 1 - short to positive	Wiring short to positive, engine coolant blower motor
18068	P1660	Engine coolant blower motor, speed 1 - short to earth	Wiring short to earth, engine coolant blower motor
18069	P1661	Engine coolant blower motor, speed 2 - short to positive	Wiring short to positive, engine coolant blower motor
18070	P1662	Engine coolant blower motor, speed 2 - short to earth	Wiring short to earth, engine coolant blower motor
18071	P1663	<u>Injector, activation - short to positive</u>	Wiring short to positive, ECM
18072	P1664	<u>Injector, activation - current circuit</u>	Wiring open circuit/short to earth
18073	P1665	<u>Injector - mechanical fault</u>	<u>Injector</u>
18074	P1666	<u>Injector 1 - current circuit</u>	Wiring open circuit/short to earth
18075	P1667	<u>Injector 2 - current circuit</u>	Wiring open circuit/short to earth
18076	P1668	<u>Injector 3 - current circuit</u>	Wiring open circuit/short to earth
18077	P1669	<u>Injector 4 - current circuit</u>	Wiring open circuit/short to earth
18080	P1672	Engine coolant blower motor, speed 1 - open circuit/short to earth	Wiring open circuit/short to earth
18082	P1674	CAN data bus, instrumentation - incorrect signal	Wiring, instrumentation control module trouble code(s) stored, matching resistor in ECM
18084	P1676	ETS warning lamp - circuit malfunction	Instrumentation control module trouble code(s) stored, wiring, matching resistor in ECM
18085	P1677	ETS warning lamp - short to positive	Instrumentation control module trouble code(s) stored, wiring short to positive, matching resistor in ECM
18086	P1678	ETS warning lamp - short to earth	Instrumentation control module trouble code(s) stored, wiring short to earth, matching resistor in ECM
18087	P1679	ETS warning lamp - open circuit	Instrumentation control module trouble code(s) stored, wiring open circuit, matching resistor in ECM
18088	P1680	Limp-home mode - active	Throttle control unit, APP sensor
18089	P1681	<u>Engine control module (ECM) - programming incomplete</u>	<u>ECM</u>
18090	P1682	CAN data bus, ABS - implausible signal	ABS control module trouble code(s) stored, wiring, matching resistor in ECM
18091	P1683	CAN data bus, SRS - implausible signal	SRS control module trouble code(s) stored, wiring, matching resistor in ECM
18098	P1690	Malfunction indicator lamp (MIL) - circuit malfunction	Instrumentation control module trouble code(s) stored, wiring, matching resistor in ECM

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18099	P1691	Malfunction indicator lamp (MIL) - open circuit	Instrumentation control module trouble code(s) stored, wiring open circuit, matching resistor in ECM
18100	P1692	Malfunction indicator lamp (MIL) - short to earth	Instrumentation control module trouble code(s) stored, wiring short to earth, matching resistor in ECM
18101	P1693	Malfunction indicator lamp (MIL) - short to positive	Instrumentation control module trouble code(s) stored, wiring short to positive, matching resistor in ECM
18104	P1696	CAN data bus, steering column electronics - incorrect signal	Wiring, matching resistor in ECM
18259	P1851	CAN data bus, ABS - incorrect signal	ABS trouble code(s) stored, wiring, matching resistor in ECM
18261	P1853	CAN data bus, ABS - incorrect signal	ABS trouble code(s) stored, wiring, matching resistor in ECM
18262	P1854	CAN data bus, ABS - defective	ABS trouble code(s) stored, wiring, matching resistor in ECM
18308	P1900	Engine coolant blower motor, speed 2 - open circuit/short to earth	Wiring open circuit/short to earth, engine coolant blower motor
18309	P1901	Engine coolant blower motor run-on relay - short to positive	Wiring short to positive, engine coolant blower motor run-on relay
18310	P1902	Engine coolant blower motor run-on relay - open circuit/short to earth	Wiring open circuit/short to earth, engine coolant blower motor run-on relay
18320	P1912	Brake servo pressure sensor - open circuit/short to positive	Wiring open circuit/short to positive, brake servo pressure sensor
18321	P1913	Brake servo pressure sensor - short to earth	Wiring short to earth, brake servo pressure sensor
18322	P1914	Brake servo pressure sensor - range/performance problem	Vacuum leak, wiring, brake servo pressure sensor
18328	P1920	Engine mounting control solenoid, bank 1 & 2 - open circuit/short to earth	Wiring open circuit/short to earth, engine mounting control solenoid
19456	P3000	CAN data bus, instrumentation - glow plug warning lamp	Wiring, matching resistor in ECM
19458	P3002	Accelerator pedal position (APP) sensor - transmission kick-down switch	APP sensor
19459	P3003	Engine coolant heater relay 1, low output	Wiring, engine coolant heater relay
19461	P3005	Engine coolant heater relay 2, high output	Wiring, engine coolant heater relay
19463	P3007	Camshaft position (CMP) sensor - no signal	Air gap, insecure sensor/rotor, wiring, CMP sensor
19464	P3008	Camshaft position (CMP) sensor - signal limit exceeded	Insecure rotor, camshaft alignment
19465	P3009	Fuel cooling pump relay - short to positive	Wiring short to positive, fuel cooling pump relay
19466	P3010	Fuel cooling pump relay - open circuit/short to earth	Wiring open circuit/short to earth, fuel cooling pump relay
19469	P3013	Turbocharger (TC) wastegate regulating valve B - short to positive	Wiring short to positive, TC wastegate regulating valve
19470	P3014	Turbocharger (TC) wastegate regulating valve B - open circuit/short to earth	Wiring open circuit/short to earth, TC wastegate regulating valve
19471	P3015	Fuel bypass valve - short to positive	Wiring short to positive, fuel bypass valve
19472	P3016	Fuel bypass valve - open circuit/short to earth	Wiring open circuit/short to earth, fuel bypass valve
19496	P3040	Gear ratio - implausible	Transmission fault
19497	P3041	CAN data bus, instrumentation - implausible ECT signal	Wiring, matching resistor in ECM

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19560	P3104	Intake manifold air control solenoid - short to positive	Wiring short to positive, intake manifold air control solenoid
19561	P3105	Intake manifold air control solenoid - open circuit/short to earth	Wiring open circuit/short to earth, intake manifold air control solenoid
19717	P3262	Heated oxygen sensor (HO2S) 2, bank 1 & 2 - interchanged	HO2S 2 on bank 1 & 2 incorrectly installed
65280	-	CAN data bus, ABS - defective	ABS trouble code(s) stored, wiring, matching resistor in ECM
65535	-	Engine control module (ECM) - defective	ECM

**1** Trouble code may be displayed if engine is not idling during self-diagnosis due to missing CKP sensor signal. Ignore trouble code if engine starts.

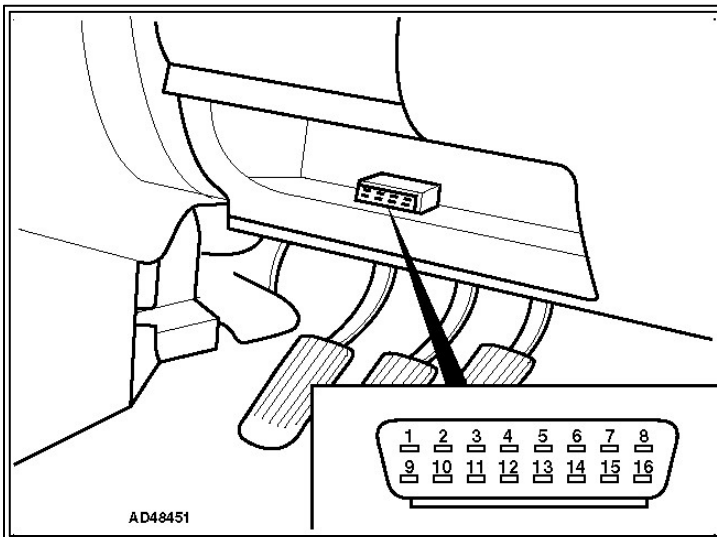
**3** Throttle control unit incorporates the following components: TP sensor, CTP switch (if fitted), ISC actuator/position sensor or throttle motor/position sensor.

**2** Located at rear of exhaust camshaft.

**6** Incorporates heated oxygen sensor (HO2S) 2.

**4** May also produce HT voltage for cylinder 4.

**5** May also produce HT voltage for cylinder 3.



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