

P Codes

Conversion table standardized diagnostic trouble codes (DTCs)/Volvo diagnostic trouble codes (DTCs)

Information

Background

OBD II is a diagnostics system designed to meet statutory requirements. A standardized instrument for fault-tracing can be plugged in to the data link connector (DLC) (OBD II socket) to read diagnostic trouble codes (DTCs) and system parameters. OBD II contains only emissions related diagnostic trouble codes (DTCs) and parameters. It cannot provide the comprehensive range of information available from the Volvo On-board diagnostics system.

Volvo has its own diagnostic trouble code (DTC) designations that adhere to the in-house Volvo On-board Diagnostics protocol (called DII from model year 1999).

Table explanations

The table below is a conversion table between standardized diagnostic trouble codes (DTCs) (SAE/ISO) and the equivalent Volvo diagnostic trouble codes (DTCs) (DII).

SAE/ISO diagnostic trouble code (DTC): Standardized diagnostic trouble code (DTC) according to SAE J2012/ISO 15031-6. The diagnostic trouble code (DTC) can be read off on vehicles with standardized on-board diagnostic systems for emissions related faults, certified in accordance with OBD II. Reading off is performed with a generic scan tool, an instrument for fault-tracing standardized in accordance with SAE J1978/ISO 15031-4.

Volvo DII diagnostic trouble code (DTC): Volvo-specific diagnostic trouble code (DTC) in accordance with the Volvo On-Board Diagnostic protocol. Can be read off using VADIS on cars from model year 1999.

Diagnostic trouble code (DTC) designation: Volvo diagnostic trouble code (DTC) designation. Used in VADIS.

Fault type: Volvo method for specifying the actual fault. Used in VADIS.

Note! An SAE/ISO diagnostic trouble code (DTC) can correspond to several DII diagnostic trouble codes (DTCs). All of these must therefore be rectified in order for the corresponding SAE/ISO diagnostic trouble code (DTC) to disappear.

Several SAE/ISO diagnostic trouble codes (DTCs) may also refer to the same DII diagnostic trouble code (DTC).

There are DII diagnostic trouble codes (DTCs) for non emissions-related faults that do not correspond to any SAE/ISO diagnostic trouble code (DTC).

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P0010	ECM-6440	Camshaft reset valve	Signal missing. Intermittent fault
P0010	ECM-6440	Camshaft reset valve	Signal missing. Permanent fault
P0013	ECM-6440	Camshaft reset valve	Signal missing. Intermittent fault
P0013	ECM-6440	Camshaft reset valve	Signal missing. Permanent fault
P0030	ECM-2810	Front heated oxygen sensor (HO2S), preheating	Signal missing. Intermittent fault
P0030	ECM-2810	Front heated oxygen sensor (HO2S), preheating	Signal missing. Permanent fault
P0031	ECM-2810	Front heated oxygen sensor (HO2S), preheating	Signal too low. Intermittent fault
P0031	ECM-2810	Front heated oxygen sensor (HO2S), preheating	Signal too low. Permanent fault
P0032	ECM-2810	Front heated oxygen sensor (HO2S), preheating	Signal too high. Intermittent fault
P0032	ECM-2810	Front heated oxygen sensor (HO2S), preheating	Signal too high. Permanent fault
P0036	ECM-2A2A	Rear heated oxygen sensor (HO2S), preheating	Signal missing. Intermittent fault
P0036	ECM-2A2A	Rear heated oxygen sensor (HO2S), preheating	Signal missing. Permanent fault
P0037	ECM-2A2A	Rear heated oxygen sensor (HO2S), preheating	Signal too low. Intermittent fault
P0037	ECM-2A2A	Rear heated oxygen sensor (HO2S), preheating	Signal too low. Permanent fault
P0038	ECM-2A2A	Rear heated oxygen sensor (HO2S), preheating	Signal too high. Intermittent fault
P0038	ECM-2A2A	Rear heated oxygen sensor (HO2S), preheating	Signal too high. Permanent fault
P0050	ECM-2910	Front heated oxygen sensor (HO2S) preheating, bank 2	Signal missing. Intermittent fault
P0050	ECM-2910	Front heated oxygen sensor (HO2S) preheating, bank 2	Signal missing. Permanent fault
P0051	ECM-2910	Front heated oxygen sensor (HO2S) preheating, bank 2	Signal too low. Intermittent fault
P0051	ECM-2910	Front heated oxygen sensor (HO2S) preheating, bank 2	Signal too low. Permanent fault
P0052	ECM-2910	Front heated oxygen sensor (HO2S) preheating, bank 2	Signal too high. Intermittent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P0116	ECM2000	Engine coolant temperature (ECT) sensor	Faulty signal. Intermittent fault
P0116	ECM2000	Engine coolant temperature (ECT) sensor	Faulty signal. Permanent fault
P0117	ECM2000	Engine coolant temperature (ECT) sensor	Signal too high. Intermittent fault
P0117	ECM2000	Engine coolant temperature (ECT) sensor	Signal too high. Permanent fault
P0118	ECM2000	Engine coolant temperature (ECT) sensor	Signal too low. Intermittent fault
P0118	ECM2000	Engine coolant temperature (ECT) sensor	Signal too low. Permanent fault
P0120	ECM953F	Accelerator pedal (AP) position sensor	Faulty signal. Intermittent fault
P0120	ECM953F	Accelerator pedal (AP) position sensor	Faulty signal. Permanent fault
P0121	ECM904C	MIL requested by the throttle unit	Faulty signal
P0122	ECM9530	Accelerator pedal (AP) position sensor, faulty signal	Signal too low. Intermittent fault
P0122	ECM9530	Accelerator pedal (AP) position sensor, faulty signal	Signal too low. Permanent fault
P0123	ECM9530	Accelerator pedal (AP) position sensor, faulty signal	Signal too high. Intermittent fault
P0123	ECM9530	Accelerator pedal (AP) position sensor, faulty signal	Signal too high. Permanent fault
P0124	ECM959F	Accelerator pedal (AP) position sensor, internal fault	Faulty signal. Intermittent fault
P0124	ECM959F	Accelerator pedal (AP) position sensor, internal fault	Faulty signal. Permanent fault
P0128	ECM201A	Thermostat	Faulty signal
P0133	ECM280A	Front heated oxygen sensor (HO2S), faulty signal	Signal too low. Intermittent fault
P0133	ECM280A	Front heated oxygen sensor (HO2S), faulty signal	Signal too low. Permanent fault
P0134	ECM280E	Front heated oxygen sensor (HO2S)	Faulty signal. Intermittent fault
P0134	ECM280A	Front heated oxygen sensor (HO2S)	Faulty signal. Permanent fault
P0135	ECM2810	Front heated oxygen sensor (HO2S), preheating	Faulty signal. Intermittent fault
P0135	ECM2810	Front heated oxygen sensor (HO2S), preheating	Faulty signal. Permanent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P0136	ECM-2A0A	Rear heated oxygen sensor (HO2S)	Signal missing. Intermittent fault
P0136	ECM-2A0A	Rear heated oxygen sensor (HO2S)	Signal missing. Permanent fault
P0137	ECM-2A0A	Rear heated oxygen sensor (HO2S)	Faulty signal. Intermittent fault
P0137	ECM-2A0A	Rear heated oxygen sensor (HO2S)	Faulty signal. Permanent fault
P0138	ECM-2A0A	Rear heated oxygen sensor (HO2S)	Signal too high. Intermittent fault
P0138	ECM-2A0A	Rear heated oxygen sensor (HO2S)	Signal too high. Permanent fault
P0140	ECM-2A1A	Rear heated oxygen sensor (HO2S) aging	Signal too high. Intermittent fault
P0140	ECM-2A1A	Rear heated oxygen sensor (HO2S) aging	Signal too high. Permanent fault
P0141	ECM-2A2A	Rear heated oxygen sensor (HO2S), preheating	Faulty signal. Intermittent fault
P0141	ECM-2A2A	Rear heated oxygen sensor (HO2S), preheating	Faulty signal. Permanent fault
P0153	ECM-290A	Front heated oxygen sensor (HO2S), bank 2	Signal too low. Intermittent fault
P0153	ECM-290A	Front heated oxygen sensor (HO2S), bank 2	Signal too low. Permanent fault
P0154	ECM-290A	Front heated oxygen sensor (HO2S), bank 2	Faulty signal. Intermittent fault
P0154	ECM-290A	Front heated oxygen sensor (HO2S), bank 2	Faulty signal. Permanent fault
P0156	ECM-2B0A	Rear heated oxygen sensor (HO2S), bank 2	Signal missing. Intermittent fault
P0156	ECM-2B0A	Rear heated oxygen sensor (HO2S), bank 2	Signal missing. Permanent fault
P0157	ECM-2B0A	Rear heated oxygen sensor (HO2S), bank 2	Faulty signal. Intermittent fault
P0157	ECM-2B0A	Rear heated oxygen sensor (HO2S), bank 2	Faulty signal. Permanent fault
P0158	ECM-2B0A	Rear heated oxygen sensor (HO2S), bank 2	Signal too high. Intermittent fault
P0158	ECM-2B0A	Rear heated oxygen sensor (HO2S), bank 2	Signal too high. Permanent fault
P0161	ECM-2B2A	Rear heated oxygen sensor (HO2S) preheating, bank 2	Faulty signal. Intermittent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P0161	ECM-2B2A	Rear heated oxygen sensor (HO2S) preheating, bank 2	Faulty signal. Permanent fault
P0171	ECM-262A	Long-term fuel trim	Upper limit
P0172	ECM-262A	Long-term fuel trim	Lower limit
P0174	ECM-272A	Long-term fuel trim, bank 2	Upper limit
P0175	ECM-272A	Long-term fuel trim, bank 2	Lower limit
P0201	ECM-2310	Injector 1	Signal missing. Intermittent fault
P0201	ECM-2310	Injector 1	Signal missing. Permanent fault
P0202	ECM-2320	Injector 2	Signal missing. Intermittent fault
P0202	ECM-2320	Injector 2	Signal missing. Permanent fault
P0203	ECM-2330	Injector 3	Signal missing. Intermittent fault
P0203	ECM-2330	Injector 3	Signal missing. Permanent fault
P0204	ECM-2340	Injector 4	Signal missing. Intermittent fault
P0204	ECM-2340	Injector 4	Signal missing. Permanent fault
P0205	ECM-2350	Injector 5	Signal missing. Intermittent fault
P0205	ECM-2350	Injector 5	Signal missing. Permanent fault
P0206	ECM-2360	Injector 6	Signal missing. Intermittent fault
P0206	ECM-2360	Injector 6	Signal missing. Permanent fault
P0220	ECM-9150	Throttle unit, internal fault	Faulty signal
P0221	ECM-914F	Throttle unit, internal fault	Faulty signal
P0225	ECM-9160	Throttle unit, internal fault	Faulty signal
P0226	ECM-904D	Pedal sensor fault	Faulty signal
P0227	ECM-9540	Accelerator pedal (AP) position sensor, power supply, 5 V	Signal too low. Intermittent fault
P0227	ECM-9540	Accelerator pedal (AP) position sensor, power supply, 5 V	Signal too low. Permanent fault
P0228	ECM-9540	Accelerator pedal (AP) position sensor, power supply, 5 V	Signal too high. Intermittent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P0228	ECM-9540	Accelerator pedal (AP) position sensor, power supply, 5 V	Signal too high. Permanent fault
P0231	ECM-2400	Fuel pump (FP) relay	Signal too low. Intermittent fault
P0231	ECM-2400	Fuel pump (FP) relay	Signal too low. Permanent fault
P0232	ECM-2400	Fuel pump (FP) relay	Signal too high. Intermittent fault
P0232	ECM-2400	Fuel pump (FP) relay	Signal too high. Permanent fault
P0234	ECM-6805	Turbocharger (TC) control valve	Pressure too high. Permanent / intermittent fault
P0236	ECM-170F	Atmospheric pressure sensor / boost pressure sensor, range check	Faulty signal. Intermittent fault
P0236	ECM-170F	Atmospheric pressure sensor / boost pressure sensor, range check	Faulty signal. Permanent fault
P0237	ECM-1600	Boost pressure sensor	Signal too low. Intermittent fault
P0237	ECM-1600	Boost pressure sensor	Signal too low. Permanent fault
P0238	ECM-1600	Boost pressure sensor	Signal too high. Intermittent fault
P0238	ECM-1600	Boost pressure sensor	Signal too high. Permanent fault
P0243	ECM-6800	Turbocharger (TC) control valve	Signal missing. Intermittent fault
P0243	ECM-6800	Turbocharger (TC) control valve	Signal missing. Permanent fault
P0245	ECM-6800	Turbocharger (TC) control valve	Signal too low. Intermittent fault
P0245	ECM-6800	Turbocharger (TC) control valve	Signal too low. Permanent fault
P0246	ECM-6800	Turbocharger (TC) control valve	Signal too high. Intermittent fault
P0246	ECM-6800	Turbocharger (TC) control valve	Signal too high. Permanent fault
P0261	ECM-2310	Injector 1	Signal too low. Intermittent fault
P0261	ECM-2310	Injector 1	Signal too low. Permanent fault
P0262	ECM-2310	Injector 1	Signal too high. Intermittent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P0262	ECMP2310	Injector 1	Signal too high. Permanent fault
P0264	ECMP2320	Injector 2	Signal too low. Intermittent fault
P0264	ECMP2320	Injector 2	Signal too low. Permanent fault
P0265	ECMP2320	Injector 2	Signal too high. Intermittent fault
P0265	ECMP2320	Injector 2	Signal too high. Permanent fault
P0267	ECMP2330	Injector 3	Signal too low. Intermittent fault
P0267	ECMP2330	Injector 3	Signal too low. Permanent fault
P0268	ECMP2330	Injector 3	Signal too high. Intermittent fault
P0268	ECMP2330	Injector 3	Signal too high. Permanent fault
P0270	ECMP2340	Injector 4	Signal too low. Intermittent fault
P0270	ECMP2340	Injector 4	Signal too low. Permanent fault
P0271	ECMP2340	Injector 4	Signal too high. Intermittent fault
P0271	ECMP2340	Injector 4	Signal too high. Permanent fault
P0273	ECMP2350	Injector 5	Signal too low. Intermittent fault
P0273	ECMP2350	Injector 5	Signal too low. Permanent fault
P0274	ECMP2350	Injector 5	Signal too high. Intermittent fault
P0274	ECMP2350	Injector 5	Signal too high. Permanent fault
P0276	ECMP2360	Injector 6	Signal too low. Intermittent fault
P0276	ECMP2360	Injector 6	Signal too low. Permanent fault
P0277	ECMP2360	Injector 6	Signal too high. Intermittent fault
P0277	ECMP2360	Injector 6	Signal too high. Permanent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P0300	ECME3500	Misfire, at least one cylinder	
P0301	ECME3501	Misfiring	Faulty signal
P0302	ECME3502	Misfiring	Faulty signal
P0303	ECME3503	Misfiring	Faulty signal
P0304	ECME3504	Misfiring	Faulty signal
P0305	ECME3505	Misfiring	Faulty signal
P0306	ECME3506	Misfiring	Faulty signal
P0327	ECME3410	Knock sensor (KS), front	Signal too low. Intermittent fault
P0327	ECME3410	Knock sensor (KS), front	Signal too low. Permanent fault
P0328	ECME3410	Knock sensor (KS), front	Signal too high. Intermittent fault
P0328	ECME3410	Knock sensor (KS), front	Signal too high. Permanent fault
P0332	ECME3420	Knock sensor (KS), rear	Signal too low. Intermittent fault
P0332	ECME3420	Knock sensor (KS), rear	Signal too low. Permanent fault
P0333	ECME3420	Knock sensor (KS), rear	Signal too high. Intermittent fault
P0333	ECME3420	Knock sensor (KS), rear	Signal too high. Permanent fault
P0335	ECME3100	Engine speed (RPM) sensor	Signal missing. Intermittent fault
P0335	ECME3100	Engine speed (RPM) sensor	Signal missing. Permanent fault
P0342	ECME3000	Camshaft sensor	Signal too low. Intermittent fault
P0342	ECME3000	Camshaft sensor	Signal too low. Permanent fault
P0343	ECME3000	Camshaft sensor	Signal too high. Intermittent fault
P0343	ECME3000	Camshaft sensor	Signal too high. Permanent fault
P0344	ECME3000	Camshaft sensor	Faulty signal. Intermittent fault
P0344	ECME3000	Camshaft sensor	Faulty signal. Permanent fault
P0351	ECME3300	Ignition coil cylinder 1, signal	Signal missing. Intermittent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P0351	ECM-3330	Ignition coil cylinder 1, signal	Signal missing. Permanent fault
P0352	ECM-3310	Ignition coil cylinder 2, signal	Signal missing. Intermittent fault
P0352	ECM-3310	Ignition coil cylinder 2, signal	Signal missing. Permanent fault
P0353	ECM-3320	Ignition coil cylinder 3, signal	Signal missing. Intermittent fault
P0353	ECM-3320	Ignition coil cylinder 3, signal	Signal missing. Permanent fault
P0354	ECM-3330	Ignition coil cylinder 4, signal	Signal missing. Intermittent fault
P0354	ECM-3330	Ignition coil cylinder 4, signal	Signal missing. Permanent fault
P0354	ECM-3340	Ignition coil cylinder 5, signal	Signal missing. Intermittent fault
P0354	ECM-3340	Ignition coil cylinder 5, signal	Signal missing. Permanent fault
P0355	ECM-3340	Ignition coil cylinder 5, signal	Signal missing. Intermittent fault
P0355	ECM-3340	Ignition coil cylinder 5, signal	Signal missing. Permanent fault
P0356	ECM-3350	Ignition coil cylinder 6, signal	Signal missing. Intermittent fault
P0356	ECM-3350	Ignition coil cylinder 6, signal	Signal missing. Permanent fault
P0422	ECM-4801	Three-way catalytic converter (TWC) efficiency	Intermittent fault
P0422	ECM-4801	Three-way catalytic converter (TWC) efficiency	Permanent fault
P0432	ECM-4901	Three-way catalytic converter (TWC) efficiency, bank 2	Intermittent fault
P0432	ECM-4901	Three-way catalytic converter (TWC) efficiency, bank 2	Permanent fault
P0440	ECM-4000	Evaporative emission system (EVAP) valve	Leakage
P0442	ECM-4300	Leak diagnostic	Minor leak
P0443	ECM-4000	Evaporative emission system (EVAP) valve	Signal missing. Intermittent fault
P0443	ECM-4000	Evaporative emission system (EVAP) valve	Signal missing. Permanent fault
P0444	ECM-4000	Evaporative emission system (EVAP) valve	Signal too high. Intermittent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P0444	ECM-4000	Evaporative emission system (EVAP) valve	Signal too high. Permanent fault
P0445	ECM-4000	Evaporative emission system (EVAP) valve	Signal too low. Intermittent fault
P0445	ECM-4000	Evaporative emission system (EVAP) valve	Signal too low. Permanent fault
P0447	ECM-4010	EVAP canister shut-off valve	Signal missing. Intermittent fault
P0447	ECM-4010	EVAP canister shut-off valve	Signal missing. Permanent fault
P0448	ECM-4010	EVAP canister shut-off valve	Signal too high. Intermittent fault
P0448	ECM-4010	EVAP canister shut-off valve	Signal too high. Permanent fault
P0448	ECM-4010	EVAP canister shut-off valve	Signal too low. Intermittent fault
P0448	ECM-4010	EVAP canister shut-off valve	Signal too low. Permanent fault
P0451	ECM-4020	Fuel tank pressure sensor	Faulty signal. Intermittent fault
P0451	ECM-4020	Fuel tank pressure sensor	Faulty signal. Permanent fault
P0452	ECM-4020	Fuel tank pressure sensor	Signal too high. Intermittent fault
P0452	ECM-4020	Fuel tank pressure sensor	Signal too high. Permanent fault
P0453	ECM-4020	Fuel tank pressure sensor	Signal too low. Intermittent fault
P0453	ECM-4020	Fuel tank pressure sensor	Signal too low. Permanent fault
P0454	ECM-430B	Leak diagnostic	Major leak
P0455	ECM-430B	Leak diagnostic	Major leak
P0456	ECM-430C	Leak diagnostic	Smallest leak
P0461	ECM-4050	Fuel level sensor	Faulty signal
P0462	ECM-4050	Fuel level sensor	Signal too low
P0463	ECM-4050	Fuel level sensor	Signal too high
P0464	ECM-4050	Fuel level sensor	Signal missing
P0480	ECM-6110	Engine cooling fan (FC) relay	Signal missing. Intermittent fault
P0480	ECM-6110	Engine cooling fan (FC) relay	Signal missing. Permanent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P0484	ECM-6100	Engine cooling fan (FC) control module	Intermittent fault
P0484	ECM-6100	Engine cooling fan (FC) control module	Permanent fault
P0506	ECM-9900A	Control module, internal fault	
P0507	ECM-9900A	Control module, internal fault	
P0531	ECM-5000	A/C pressure sensor	
P0531	ECM-5000	A/C pressure sensor	
P0532	ECM-5000	A/C pressure sensor	Signal too low. Intermittent fault
P0532	ECM-5000	A/C pressure sensor	Signal too low. Permanent fault
P0533	ECM-5000	A/C pressure sensor	Signal too high. Intermittent fault
P0533	ECM-5000	A/C pressure sensor	Signal too high. Permanent fault
P0560	ECM-8010	System relay output	Faulty signal. Intermittent fault
P0560	ECM-8010	System relay output	Faulty signal. Permanent fault
P0562	ECM-8010	System relay output	Signal too low. Intermittent fault
P0562	ECM-8010	System relay output	Signal too low. Permanent fault
P0563	ECM-8010	System relay output	Signal too high. Intermittent fault
P0563	ECM-8010	System relay output	Signal too high. Permanent fault
P0571	ECM-9400	Brake pedal position sensor	Signal missing. Intermittent fault
P0571	ECM-9400	Brake pedal position sensor	Signal missing. Permanent fault
P0572	ECM-9400	Brake pedal position sensor, faulty signal	Signal too low. Intermittent fault
P0572	ECM-9400	Brake pedal position sensor, faulty signal	Signal too low. Permanent fault
P0573	ECM-9400	Brake pedal position sensor, faulty signal	Signal too high. Intermittent fault
P0573	ECM-9400	Brake pedal position sensor, faulty signal	Signal too high. Permanent fault
P0600	ECM-E000	Control module, internal fault	Faulty signal. Intermittent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P0600	ECM-E000	Control module, internal fault	Faulty signal. Permanent fault
P0602	ECM-E531D	Control module, internal fault	Faulty signal. Permanent fault
P0630	ECM-F20A	Immobilizer communication	Faulty signal. Intermittent fault
P0630	ECM-F20A	Immobilizer communication	Faulty signal. Permanent fault
P0645	ECM-E600	Air conditioning (A/C) relay, signal	Signal missing. Intermittent fault
P0645	ECM-E600	Air conditioning (A/C) relay, signal	Signal missing. Permanent fault
P0650	ECM-E6B0	Malfunction indicator lamp (MIL), signal	Signal missing. Intermittent fault
P0650	ECM-E6B0	Malfunction indicator lamp (MIL), signal	Signal missing. Permanent fault
P0805	ECM-E930	Clutch pedal position sensor	Faulty signal. Intermittent fault
P0805	ECM-E930	Clutch pedal position sensor	Faulty signal. Permanent fault
P0807	ECM-E930	Clutch pedal position sensor, faulty signal	Signal too low. Intermittent fault
P0807	ECM-E930	Clutch pedal position sensor, faulty signal	Signal too low. Permanent fault
P0808	ECM-E930	Clutch pedal position sensor, faulty signal	Signal too high. Intermittent fault
P0808	ECM-E930	Clutch pedal position sensor, faulty signal	Signal too high. Permanent fault
P1132	ECM-E280A	Front heated oxygen sensor (HO2S), faulty signal	Signal too high. Intermittent fault
P1132	ECM-E280A	Front heated oxygen sensor (HO2S), faulty signal	Signal too high. Permanent fault
P1133	ECM-E280A	Front heated oxygen sensor (HO2S), faulty signal	Signal missing. Intermittent fault
P1133	ECM-E280A	Front heated oxygen sensor (HO2S), faulty signal	Signal missing. Permanent fault
P1152	ECM-290A	Front heated oxygen sensor (HO2S), bank 2	Signal too high. Intermittent fault
P1152	ECM-290A	Front heated oxygen sensor (HO2S), bank 2	Signal too high. Permanent fault
P1153	ECM-290A	Front heated oxygen sensor (HO2S), bank 2	Signal missing. Intermittent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P1153	ECM-290A	Front heated oxygen sensor (HO2S), bank 2	Signal missing. Permanent fault
P1171	ECM-261A	Long-term fuel trim	Upper limit
P1172	ECM-261A	Long-term fuel trim	Lower limit
P1174	ECM-260A	Long-term fuel trim	Upper limit
P1175	ECM-260A	Long-term fuel trim	Lower limit
P1177	ECM-268A	Long-term fuel trim	Upper limit
P1178	ECM-268A	Long-term fuel trim	Lower limit
P1179	ECM-268A	Long-term fuel trim	Faulty signal
P1181	ECM-271A	Long-term fuel trim, bank 2	Upper limit
P1182	ECM-271A	Long-term fuel trim, bank 2	Lower limit
P1184	ECM-270A	Long-term fuel trim, bank 2	Upper limit
P1185	ECM-270A	Long-term fuel trim, bank 2	Lower limit
P1237	ECM-680B	Turbocharger (TC) control system flow fault	Flow too low. Permanent / intermittent fault
P1238	ECM-680B	Turbocharger (TC) control system flow fault	Flow too high. Permanent / intermittent fault
P1325	ECM-341E	Knock sensor (KS), test pulse	Signal too high / signal too low. Intermittent fault
P1325	ECM-341E	Knock sensor (KS), test pulse	Signal too high / signal too low. Permanent fault
P1326	ECM-341E	Knock sensor (KS), offset	Signal too high / signal too low. Intermittent fault
P1326	ECM-341E	Knock sensor (KS), offset	Signal too high / signal too low. Permanent fault
P1329	ECM-3400	Knock sensor (KS), test pulse	Signal too high / signal too low. Intermittent fault
P1329	ECM-3400	Knock sensor (KS), test pulse	Signal too high / signal too low. Permanent fault
P1350	ECM-3300	Ignition coil cylinder 1, signal	Signal too low. Intermittent fault
P1350	ECM-3300	Ignition coil cylinder 1, signal	Signal too low. Permanent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P1351	ECM3330U	Ignition coil cylinder 1, signal	Signal too high. Intermittent fault
P1351	ECM3330U	Ignition coil cylinder 1, signal	Signal too high. Permanent fault
P1352	ECM3331U	Ignition coil cylinder 2, signal	Signal too low. Intermittent fault
P1352	ECM3331U	Ignition coil cylinder 2, signal	Signal too low. Permanent fault
P1353	ECM3331U	Ignition coil cylinder 2, signal	Signal too high. Intermittent fault
P1353	ECM3331U	Ignition coil cylinder 2, signal	Signal too high. Permanent fault
P1354	ECM3332U	Ignition coil cylinder 3, signal	Signal too low. Intermittent fault
P1354	ECM3332U	Ignition coil cylinder 3, signal	Signal too low. Permanent fault
P1355	ECM3332U	Ignition coil cylinder 3, signal	Signal too high. Intermittent fault
P1355	ECM3332U	Ignition coil cylinder 3, signal	Signal too high. Permanent fault
P1356	ECM3333U	Ignition coil cylinder 4, signal	Signal too low. Intermittent fault
P1356	ECM3333U	Ignition coil cylinder 4, signal	Signal too low. Permanent fault
P1356	ECM3334U	Ignition coil cylinder 5, signal	Signal too low. Intermittent fault
P1356	ECM3334U	Ignition coil cylinder 5, signal	Signal too low. Permanent fault
P1357	ECM3333U	Ignition coil cylinder 4, signal	Signal too high. Intermittent fault
P1357	ECM3333U	Ignition coil cylinder 4, signal	Signal too high. Permanent fault
P1357	ECM3334U	Ignition coil cylinder 5, signal	Signal too high. Intermittent fault
P1357	ECM3334U	Ignition coil cylinder 5, signal	Signal too high. Permanent fault
P1358	ECM3334U	Ignition coil cylinder 5, signal	Signal too low. Intermittent fault
P1358	ECM3334U	Ignition coil cylinder 5, signal	Signal too low. Permanent fault
P1359	ECM3334U	Ignition coil cylinder 5, signal	Signal too high. Intermittent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P1359	ECM-3334	Ignition coil cylinder 5, signal	Signal too high. Permanent fault
P1360	ECM-3350	Ignition coil cylinder 6, signal	Signal too low. Intermittent fault
P1360	ECM-3350	Ignition coil cylinder 6, signal	Signal too low. Permanent fault
P1361	ECM-3350	Ignition coil cylinder 6, signal	Signal too high. Intermittent fault
P1361	ECM-3350	Ignition coil cylinder 6, signal	Signal too high. Permanent fault
P1440	ECM-4338	Fuel tank filler cap missing	
P1481	ECM-511U	Engine cooling fan (FC) relay	Signal too low. Intermittent fault
P1481	ECM-511U	Engine cooling fan (FC) relay	Signal too low. Permanent fault
P1482	ECM-511U	Engine cooling fan (FC) relay	Signal too high. Intermittent fault
P1482	ECM-511U	Engine cooling fan (FC) relay	Signal too high. Permanent fault
P1513	ECM-940X	Brake pedal position sensor	Faulty signal. Intermittent fault
P1513	ECM-940X	Brake pedal position sensor	Faulty signal. Permanent fault
P1520	ECM-917F	Accelerator pedal (AP) position sensor, internal fault	Faulty signal
P1520	ECM-9180	Accelerator pedal (AP) position sensor	Faulty signal
P1525	ECM-910F	Stop lamp switch	Faulty signal
P1526	ECM-980A	Control module, internal fault	Faulty signal. Intermittent fault
P1526	ECM-980A	Control module, internal fault	Faulty signal. Permanent fault
P1528	ECM-910F	Engine control module (ECM), internal fault	Faulty signal
P1550	ECM-510F	Speed signal	
P1551	ECM-510F	Speed signal	
P1560	ECM-928C	Control module, communication fault	Signal too high. Intermittent fault
P1560	ECM-928C	Control module, communication fault	Signal too high. Permanent fault
P1561	ECM-928C	Control module, communication fault	Signal too low. Intermittent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P1561	ECM-928C	Control module, communication fault	Signal too low. Permanent fault
P1562	ECM-928C	Control module, communication fault	Signal missing. Intermittent fault
P1562	ECM-928C	Control module, communication fault	Signal missing. Permanent fault
P1600	ECM-919D	Throttle unit, internal fault	Faulty signal
P1601	ECM-91F0	Throttle unit, internal fault	Faulty signal
P1602	ECM-91B7	Throttle unit, internal fault	Faulty signal
P1603	ECM-91A7	Throttle unit, internal fault	Faulty signal
P1604	ECM-910E	Throttle unit, internal fault	Faulty signal. Intermittent fault
P1604	ECM-910E	Throttle unit, internal fault	Faulty signal. Permanent fault
P1605	ECM-911A	Throttle unit communication	Faulty signal
P1606	ECM-912A	Engine control module (ECM) communication	Faulty signal
P1607	ECM-91E0	Battery voltage	Faulty signal
P1608	ECM-903E	Throttle unit, internal fault	Signal too low or signal missing
P1609	ECM-903E	Throttle unit, internal fault	Signal too low or signal missing
P1610	ECM-903E	Throttle unit, internal fault	Signal too high
P1611	ECM-902E	Throttle unit communication	Signal too high or signal missing
P1612	ECM-902A	Throttle unit communication	Signal too low
P1613	ECM-902E	Throttle unit communication	Signal too high or signal missing
P1614	ECM-903E	Engine control module (ECM), internal fault	Faulty signal
P1615	ECM-901E	Control module, internal fault	Faulty signal. Permanent fault
P1618	ECM-530D	Diagnostic trouble code (DTC) in another control module	
P1625	ECM-6B00	Malfunction indicator lamp (MIL), signal	Signal too low. Intermittent fault
P1625	ECM-6B00	Malfunction indicator lamp (MIL), signal	Signal too low. Permanent fault
P1626	ECM-6B00	Malfunction indicator lamp (MIL), signal	Signal too high. Intermittent fault
P1626	ECM-6B00	Malfunction indicator lamp (MIL), signal	Signal too high. Permanent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P1630	ECM-E003	Control module, internal fault	Faulty signal. Intermittent fault
P1630	ECM-E003	Control module, internal fault	Faulty signal. Permanent fault
P1631	ECM-E30F	Control module communication	
P1632	ECM-710A	Real time clock	
P1635	ECM-718U	Temperature sensor control module	Signal too high / signal too low. Intermittent fault / permanent fault
P1635	ECM-718U	Temperature sensor control module	Signal too high / signal too low. Intermittent fault / permanent fault
P1636	ECM-718U	Temperature sensor control module	Signal too high / signal too low. Intermittent fault / permanent fault
P1636	ECM-718U	Temperature sensor control module	Signal too high / signal too low. Intermittent fault / permanent fault
P1637	ECM-715D	Temperature sensor control module	
P1638	ECM-716D	Temperature sensor control module	
P1646	ECM-6000	Air conditioning (A/C) relay, signal	Signal too low. Intermittent fault
P1646	ECM-6000	Air conditioning (A/C) relay, signal	Signal too low. Permanent fault
P1647	ECM-6000	Air conditioning (A/C) relay, signal	Signal too high. Intermittent fault
P1647	ECM-6000	Air conditioning (A/C) relay, signal	Signal too high. Permanent fault
P1649	ECM-644U	Camshaft reset valve	Signal too low. Intermittent fault
P1649	ECM-644U	Camshaft reset valve	Signal too low. Permanent fault
P1650	ECM-644U	Camshaft reset valve	Signal too high. Intermittent fault
P1650	ECM-644U	Camshaft reset valve	Signal too high. Permanent fault
P1651	ECM-981A	Control module, internal fault	Faulty signal. Intermittent fault
P1651	ECM-981A	Control module, internal fault	Faulty signal. Permanent fault

SAE/ISO (DTC)	Volvo DII (DTC)	Diagnostic trouble code (DTC) designation	Fault type
P1652	ECM-982A	Control module, internal fault	Faulty signal. Intermittent fault
P1652	ECM-982A	Control module, internal fault	Faulty signal. Permanent fault
P1655	ECM-6440	Camshaft reset valve	Signal too low. Intermittent fault
P1655	ECM-6440	Camshaft reset valve	Signal too low. Permanent fault
P1656	ECM-6440	Camshaft reset valve	Signal too high. Intermittent fault
P1656	ECM-6440	Camshaft reset valve	Signal too high. Permanent fault
P1660	ECM-928C	Control module, communication fault	Signal too high. Intermittent fault
P1660	ECM-928C	Control module, communication fault	Signal too high. Permanent fault
P1661	ECM-928C	Control module, communication fault	Signal too low. Intermittent fault
P1661	ECM-928C	Control module, communication fault	Signal too low. Permanent fault
P1662	ECM-928C	Control module, communication fault	Signal missing. Intermittent fault
P1662	ECM-928C	Control module, communication fault	Signal missing. Permanent fault
P1672	ECM-8410	Power supply 5 volts	Signal too low. Intermittent fault
P1672	ECM-8410	Power supply 5 volts	Signal too low. Permanent fault
P1673	ECM-8410	Power supply 5 volts	Signal too high. Intermittent fault
P1673	ECM-8410	Power supply 5 volts	Signal too high. Permanent fault