

BMW5 (E39) Fault Codes PDF

Control and measuring equipment

To check the fuel injection systems and reduce the toxicity of exhausts, it is necessary to use digital universal instrumentation, since they have greater measurement accuracy and greater internal loop resistance.

Handheld scanners are the most convenient and versatile devices for testing engine management systems on models of later years of production.

BMW E39 OBD-I systems (models up to 1995 of release)

The electronic control unit has a built-in On Board Diagnosis (OBD) system, which serves to troubleshoot the system and turns on the engine warning light on the dashboard in the event of a malfunction. The fault code is stored in the memory of the electronic control unit and is available for reading.

Reading fault codes OBD-I systems - warning lights

To read the fault codes stored in the memory of the electronic control unit, connect the STI and GND terminals of the [diagnostic connection socket](#).

Connect the voltmeter to the STO terminal and the vehicle's "mass". Turn the ignition on and calculate the number of deviations from the arrow of the instrument or the flashing of the engine **warning light**. For example, code 34 will be displayed as 3 long flashing lights, pause, 4 short flashes.

Clearing the OBD-I DTCs

To clear the fault codes, disconnect the negative battery cable and depress the brake pedal for longer than 5 seconds.

BMW OBD-I fault codes (1993-1995 models, except 1994 and 1995 models with 4-cylinder engine and automatic transmission)

FAULT CODE	THE FAILED COMPONENT OR SYSTEM
02	Crankshaft position sensor
03	Camshaft position sensor
08	Air flow sensor
09	Coolant temperature sensor
11	Air temperature sensor
12	Throttle position sensor
15	Oxygen sensor
16	Exhaust gas recirculation valve sensor
17	Oxygen sensor (check the ignition system)
25	Fuel pressure valve
26	Purge valve
28	Exhaust gas recirculation valve

29	Air admittance valve exhaust gas recirculation
34	System idle air valve
67	Cooling fan relay

OBD-I fault codes (1994 and 1995 models with 4-cylinder engine and automatic transmission)

FAULT CODE	THE FAILED COMPONENT OR SYSTEM
111	Absence of fault codes
112, 113	Air temperature sensor
116, 117, 118	Coolant temperature sensor
121, 122, 123	Throttle position sensor
157, 158, 159	Air flow sensor
172, 173, 179, 181	Oxygen sensor
211, 212, 213	Ignition system
214, 244	Camshaft position sensor
327, 332, 337	Exhaust gas recirculation sensor
411, 412	System idle air valve
452	Speed sensor
511, 512, 513	Central control unit
519, 521	Gidrousilenija steering system switch
522	Automatic transmission sensor
536	Switch lights stop signal
538	Dynamic test
539	Air conditioner sensor
554	Pressure control valve
559	Air conditioner relay
563	Relay (high speed) cooling fan
564	Relay (low speed) cooling fan
565	Purge valve
571	Ventilation exhaust gas recirculation valve
572	Vacuum valve exhaust gas recirculation
998	Central control unit

OBD-II systems (models since 1996 of release)

Diagnostic connector for OBD-II system connection

The connector is located under the dashboard on the driver's side.

Models since 1996 of release have system of self-diagnostics of second generation OBD-II. Access to the electronic control unit of this system can be obtained only with a special scanner, which must be connected to the 16-pin diagnostic connector of the connection located under the instrument panel. If a malfunction is detected, the electronic control unit turns on the warning light on the dashboard and stores the malfunction code in the memory.

Reading the OBD-II system trouble codes

To read the [OBD-II system trouble codes](#), use a special scanner, which must be connected to the diagnostic connector of the connection. If there is no scanner, please contact a specialist.

Clearing OBD-II system trouble codes

To clear the OBD-II system trouble codes, you must use a special scanner.

BMW E39 OBD-II system trouble codes

FAULT CODE	THE FAILED COMPONENT OR SYSTEM
P0100, P0102, P0103	Air flow sensor
P0110, P0112, P0113	Air temperature sensor
P0115, P 0117, P0118	Coolant temperature sensor
P0120, P0122, P0123	Throttle position sensor
P0125	To navigate to the closed regime requires too much time
(P) 0130, P0131, P 0150	Oxygen sensor
P0133, P0134, P0140	Slow response oxygen sensor
(P) 0154, P0160	Slow response oxygen sensor
(P) 0135, P0141, P 0155	Heating element oxygen sensor
P0170, P0171	Lean fuel mixture
P0172, P0173	Packed fuel mixture
P 0230 P0231 P0232,	Fuel pump
P0300	Random misfire
P0301	Misfire in cylinder N1
P0302	Misfire in cylinder N2
P0303	Misfire in cylinder N3
P0304	Misfire in cylinder 4
P0305	Misfire in cylinder 5
P0306	Misfire in cylinder # 6

P0320	Ignition system
P0335	Crankshaft position sensor
P0340	Camshaft position sensor
P0400	Clogged exhaust gas recirculation system
P0420, P0430	Catalytic converter
P0440	Fuel vapor collection system
P0443	Purge valve
P0500, P0503	Speed sensor
P 0505	System idle air valve
P 0510	Idling system switch
P 0552, P0553	Gidrousilenija steering system switch
P 0603	RAM Error
P 0605	ROM Error
P 0703	Switch lights stop signal
P 0704	Switch on the clutch pedal
P 0705	Transmission sensor
P0710 P0760	Transmission control system