

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 |

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| 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 |

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| 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 |