

## Zanussi Washing Machines Error Codes

E11 - the machine has detected a problem with water filling.

E13 - water leakage in the pan of the washing machine.

E21 - problems with draining: water has not been removed from the tank for 10 minutes.

E23 - the machine signals a breakdown of the triac (drain pump control element).

E24 - the occurrence of problems with the drain: the system has detected a malfunction in the operation of the drain pump triac circuit.

E33 - inconsistent operation of water level sensors.

E35 - water filling problem was detected. The water level in the working tank is too high.

E36 - breakdown of the sensor, which warns of the inclusion of the heating element in the absence of the required amount of water.

E37 - a malfunction of the water level sensor I was detected.

E39 - malfunction of the water overflow level sensor.

E41 - the door of the washing machine is not closed tightly.

E42 - the system has detected a malfunction of the hatch lock.

E43 - malfunction of the lock triac.

E44 - the system has detected a breakdown of the hatch closing sensor.

E45 - malfunction in the sunroof control circuit (in the electronic controller).

E51 - breakdown of the drive motor, which was preceded by a short circuit in the control element - the triac.

E52 - there is no contact between the electronic controller and the tachogenerator.

E53 - malfunction of the drive motor control circuit.

E54 - failure of one of the two contact groups of the drive motor reversing relay.

E61 - the temperature regime is violated, the water does not reach the temperature set by the program.

E66 - the system has detected a malfunction of the heating element relay.

E71 - malfunction of the temperature sensor (increased resistance).

E82 - the system detected problems in the operation of the selector (a special device for selecting programs and cycles).

E83 - the system detected an error while reading data from the selector.

E84 - washing machine configuration error.

Error codes for BOSCH washing machines

E02 - Engine failure

E67 - Error in the module or programmer

F01 - Problems with the hatch

F02 - No water

F03 - Problem with water drain

F04 - Water leak

F16 - The hatch is not closed

E17, F17 - Water filling time exceeded

E18, F18 - Error draining water in the CM

F19 - No water heating

F20 - Unscheduled heating

F21 - No drum rotation

F22 - Temperature sensor out of order

F23 - Activated Aquastop

F25 - Aqua sensor (water turbidity sensor) is out of order

F26 - The pressure sensor is out of order

F27 - Pressure sensor error

F28 - Malfunction of the water flow sensor

F29 - No water passing through the water flow sensor

F31 - Water level too high

F34 - The hatch lock does not close

F36 - The lock of the washing machine is faulty

F37 - Defective NTC

F38 - Short circuit NTC (temperature sensor)

F40 - Network error

F42 - Too high speed of the electric motor

F43 - Tank blocking CM

F44 - No reverse rotation

F59 - 3D Sensor: Data Error

F60 - Flow sensor defective

F61 - Invalid door code

F63 - Functional protection problem

F67 - Malfunction of the control board

Error code Error code interpretation Probable malfunction of the washing machine

E11 There is no water during the washing cycle (the water level in the tank was not reached within the allotted time)

The most likely cause of the error is a malfunction of one of the water inlet valves or its control circuit (triac) on the electronic controller.

If necessary, you can check the winding of the valve - its resistance should be about 3.75 kOhm.

Also, such a mistake can be caused by clogging of the water flow path and insufficient water pressure in the water pipe.

E13 There was a water leak into the washing machine tray. Check the presence of water in the pan.

E21 Within 10 minutes, the water was not drained from the tank

The most likely cause of the error is a malfunction of the drain pump, a clogging of the Zanussi washing machine's filter, spigots and hoses.

If necessary, you can check the winding of the drain pump - its resistance should be about 170 Ohm.

An error can also be caused by a malfunction of the electronic controller.

E23 Fault pump control pump triac (located on the electronic controller) Check and, if necessary, replace the specified triac or controller.

E24 Defect of the control circuit of the triac pump triac (its elements, like the triac, are located on the electronic controller). Check the integrity of the elements of the specified circuit.

E31 Pressure sensor failure

The frequency of the pressure sensor is outside the permissible limits, a break in the wiring.

Replace the pressure sensor.

Replace the wiring.

E32 Calibration problems of the pressure sensor

After the initial calibration, the water level is outside the range of 0-66 mm, and the level of antiperspirancy is not reached.

Open the water tap.

Replace the filler valve.

Clean the filter.

Replace the pressure switch.

Replace the pressure sensor.

E33 The inconsistency of the operation of the water level sensors

(protection sensor of the heater from the inclusion of the latter without water and the sensor of the first level)

The most likely reasons for this error can be:

One of the sensors listed is defective.

Clogged tube level sensors, as well as a pressure chamber for these sensors.

Increased voltage in the mains of the AGR.

Leakage on the housing of the heater.

E34 Mismatch between pressure switch and level of boiling point 2  
Error exists for more than 60 seconds

Replace the pressure sensor.

Check wiring.

Replace the pressure switch.

E35 The water level in the tank is higher than the permissible level.  
During the flooding of water, the so-called overflow level was reached  
(the overflow level switch was opened for a time longer than 15 s).

Check and if necessary replace the pressure switch.

E36 Defective TEN protection level sensor

(P<sub>h</sub>P' S) Check the specified sensor.

E37 Water level sensor failure (L1 S) Check the specified sensor.

E38 Pressostat tube is clogged

No pressure difference is detected. Clean or replace the pressure switch.

E39 Overflow level sensor fault (HV1 S) Check the specified sensor.

E3A Malfunction of the heating element relay. Replace the electronic unit.

E41 The hatch is open or closed loosely. Close the hatch tightly.

E42 Defective manhole lock. Check the manhole lock (ULL).

E43 Faulty control triac (located on the electronic controller) of the lock of the hatch. Check the correctness of the triac of the lock of the hatch.

E44 The hatch closing sensor is defective. Check the specified sensor.

E45 The elements of the triac control triac control circuit are defective (its elements, like the triac, are located on the electronic controller). Check the elements of the manhole lock control circuit.

E51 Short-circuited drive motor triac (located on the electronic controller) Check and if necessary replace the triac of the drive motor control.

E52 The signal from the tachogenerator of the drive motor does not reach the electronic controller

The most likely cause of such an error is caused by the fact that the fixing washer can jump off the tachometer housing, so the sensor coil comes out of its seat.

Correct or replace the tacho sensor.

E53 The components of the control circuit for the triac of the drive motor (its elements, like the triac, are located on the electronic controller) are broken. Check the control elements of the triac of the drive motor.

E54 One of the reversing relay contact groups (there are only two) of the drive motor (the relays are located on the electronic controller) "Stuck" one. Check and, if necessary, replace the reverse relay.

E55 Open in the motor circuit

Replace the motor.

Replace the wiring.

E56 There is no signal from the tachometer generator.

No signal after 15 minutes. Replace the tachometer.

E57 Current exceeds 15A threshold

Replace the motor.

Replace the wiring.

Replace the electronic unit.

E58 The motor phase current is above the 4.5A threshold

Replace the motor.

Replace the wiring.

Replace the electronic unit.

E59 After setting a new rotation speed other than zero, there is no tachometric signal for 3 seconds

Replace the motor.

Replace the tachometer.

Replace the electronic unit.

Replace the wiring.

E5A Cooling coil temperature exceeds the threshold value (88 B° C).  
Replace the electronic unit.

E5B The DC bus voltage drops below the threshold value (<175V)

Replace the electronic unit.

Replace the wiring.

E5C The DC bus voltage is above the threshold value (> 430V). Replace the electronic unit.

E5D FCV can not receive and / or send a message within 2 seconds.  
Replace the electronic unit.

E5E Communication error between FCV control board and main PCB.  
Replace the electronic unit.

E5F The FCV control card continuously requests configuration parameters due to repeated faults

Replace the wiring.

Replace the electronic unit.

E61 During the heating of the water, its temperature does not reach the set value within a certain time

! This code is not available for reading in normal operation of the AGR - it is displayed only in diagnostic mode.

If necessary, you can check the heater - its resistance should be about 30 ohms (at room temperature).

E62 During the heating of water, its temperature reached a value of more than 88 B° C in 5 minutes

Typically, this error is caused by a malfunction of the temperature sensor. The sensor can be checked by measuring its resistance - it should be within 5.7 ... 6.3 kOhm (at 20 B° C).



Also it is necessary to check the heater (it is possible to break it into the housing).

E66 Defective TEN relay Check and, if necessary, replace both the TEN relay itself and its control circuits.

E68 Too high a leakage current in the washing machine. Replace the heating element or replace other components.

E71 Resistance of the temperature sensor has exceeded the set limits

The most likely cause of such an error is caused by a break or short circuit of the sensor or its connecting circuits.

Sometimes the heater or sensor fails (it is possible to break one of these elements onto the housing).

Check the listed elements of the AGR.

E74 NTC (temperature sensor) in the wrong position in the tank. Check the position of the temperature sensor.

E82 Position selection error The electronic unit is faulty (incorrect configuration data), selector, wiring.

E83 Error reading data from the selector (this code is only available for reading in diagnostic mode) Incorrect machine configuration, replace the electronic unit.

E84 Recirculation pump identification error

The input voltage is always 0V or 5V. Replace the electronic unit.

E85 Malfunction of recirculation pump

Thyristor fault

Replace the recirculation pump.

Replace the electronic unit.

E91 Communication error between the user interface and the main unit. Replace the electronic unit.

E92 Mismatch between the user interface and the main unit. Replace the electronic unit.

E93 Configuration error of SMA A similar defect is eliminated by entering the correct configuration code.

E94 CM configuration and cycle errors (programs) It is necessary to overwrite the non-volatile memory of the controller or replace it.

E95 Communication error between the processor and nonvolatile memory located on the electronic controller

Check the circuits between the processor and the EEPROM chip.

It is also necessary to check the power on the NVRAM.

E96 Mismatch between the configuration of the electronic controller and external components that are connected to it (or not) Check the configuration of the electronic controller and its external components.

E97 Mismatch in the operation of the program selector and the electronic controller software

Invalid machine configuration.

Replace the main unit.

E98 Mismatch between engine control unit and main electronics

Replace the electronic unit.

Replace the wiring.

E99 A non-standard connection between the audio unit and the input / output electronics

Replace the sound block.

Check wiring.

E9A The firmware between the speaker and the input / output electronics is not in order. Replace the electronic unit.

EA1 DSP System Malfunction

Replace the DSP.

Replace the main unit.

Replace the wiring.

Replace the drive belt.

EA2 DSP Recognition Error Replace the main unit.

EA3 DSP can not lock the engine pulley

Replace the DSP.

Replace the main unit.

Replace the wiring.

Replace the drive belt.

EA4 DSP Trouble

Replace the DSP.

Replace the main unit.

Replace the wiring.

EA5 Faulty DSP Thyristor Replace the main unit.

EA6 No signal for rotation of the drum during the first 30 seconds

Replace the drive belt.

Replace the DSP.

Do not close the sash of the drum.

EB1 The frequency of the supply network does not match the permissible. Check the parameters of the mains.

EB2 The supply voltage is above the permissible limit. Check the parameters of the mains.

EB3 Supply voltage is below the permissible limit. Check the power supply network parameters.

EBE Defective relay of the protective circuit Replace the electronic unit.

EBF Faulty identification of the protective circuit. Replace the electronic unit.

EC1 Filling valve blocked

Replace the fill valve.

Replace the electronics.

Replace the wiring.

EC2 Water Transmitter Malfunction (if present) Replace the turbidity sensor.

EF1 Clogged filter

The drain hose is clogged

The drain time is too long

Clean the drain hose and filter.

Check the drain pump.

EF2 Overdose of detergent, very abundant foam during draining

Clogged filter

The drain hose is clogged

Clean the drain hose and filter.

Check the drain pump.

Specify the dosage of detergent.

EF3 Aqua Control system activated

Drain pump cable malfunction

Break in the drain pump

Leakage of water in the car

Replace the cable.

Replace the drain pump.

EF4 There is no signal from the flow sensor when the flood valves are switched on The water tap or insufficient pressure in the water pipe is closed.

EF5 Spin cycle interrupted, too large unbalance > 1200g

Check the volume of loaded laundry.

Check the behavior of the machine in a stationary state.

EH1 The frequency of the supply voltage is outside the permissible limits

Unsuitable power supply or interference in the network.

Replace the electronics.

EH2 Supply voltage too high Unsuitable power supply Replace the electronic unit.

EH3 Supply voltage too low An improper power supply or interference in the network. Replace the electronics.

EHE Defective relay of the protective circuit Replace the electronic unit.

EHF Protection circuit recognition error Replace the electronic unit.

