

## 6. Fault finding

### 6.1. List of errors

Error - Coffee machine is blocked

Code	Fault description	Solution
E01	RS422 broken link between control board and touch board	Check connection between control board and touch board <ul style="list-style-type: none"> <li>Check if control board is running -&gt; LED on board</li> <li>When leaving &lt;Diagnostic&gt; it may happen that the error appears shortly – there is no problem</li> </ul>
E02	Short circuit +24V AUX trolley	Check 24V AUX and trolley <ul style="list-style-type: none"> <li>Check connection between trolley and coffee machine</li> <li>Check Fuse F1 on the power board</li> </ul>
E03	Short circuit +24V valves, brewing group heating element, milk sensor, air pump, relay milk pump	Check listed elements <ul style="list-style-type: none"> <li>Check cables and wiring</li> </ul>
E04	Short circuit +5V card reader	Check listed elements <ul style="list-style-type: none"> <li>Check cables and wiring</li> </ul>
E06	Short circuit cash system	Check listed elements <ul style="list-style-type: none"> <li>Check cables and wiring</li> </ul>
E08	Short circuit +12V power board	Check power board
E09	Short circuit heating element relay	Check heating element relay – replace if necessary
E10	Heating element relay interrupted	Check heating element relay and cable – replace if necessary
E11	Overheating coffee boiler	Check temperature sensor of coffee boiler with diagnostic <ul style="list-style-type: none"> <li>Check power supply (triac)</li> <li>Check fuse F10 A + B</li> </ul>
E12	Overheating steam boiler	Check heater of steam boiler with diagnostic <ul style="list-style-type: none"> <li>Check level sensor</li> <li>Check Steam boiler filling valve</li> <li>Check pressure on the manometer</li> <li>Check power supply (triac)</li> </ul>
E13	Error during upper piston movement	Check spindle motor with diagnostic – movement, switch function Brewing unit L61 and former version <ul style="list-style-type: none"> <li>Check upper piston shaft</li> <li>Check also lower piston switch for proper movement</li> </ul> Brewing unit BC18 (18 grams) <ul style="list-style-type: none"> <li>Perform brewing group calibration</li> </ul>
E14	Error during lower piston movement	Check spindle motor with diagnostic – movement, switch function <ul style="list-style-type: none"> <li>Clean lower piston/sieve if dirty (blockage can cause error)</li> <li>Check thread of lower piston shaft</li> </ul> Brewing unit L61 and former version <ul style="list-style-type: none"> <li>Check lower piston shaft</li> </ul> Brewing unit BC18 (18 grams) <ul style="list-style-type: none"> <li>Perform brewing group calibration</li> </ul>
E15	CCI/CSI link between coffee machine and cash system interrupted	Check cables and interface <ul style="list-style-type: none"> <li>Check connection to control board</li> </ul>

## 6.2. List of warnings

### Warning - Coffee machine works with limitations

Code	Fault description	Solution
W01	Short circuit +12V light module	Check listed elements <ul style="list-style-type: none"> <li>• Check cables and wiring</li> </ul>
W02	Short circuit +24V spindle motor	Check listed elements <ul style="list-style-type: none"> <li>• Check cables and wiring</li> </ul>
W03	Short circuit +5V end switch or encoder spindle motor	Check listed elements <ul style="list-style-type: none"> <li>• Check cables and wiring</li> </ul>
W04	Short circuit +12V pressure sensor	Check listed elements <ul style="list-style-type: none"> <li>• Check cables and wiring</li> </ul>
W05	Short circuit +5V iSteam keyboard	Check listed elements <ul style="list-style-type: none"> <li>• Check cables and wiring</li> </ul>
W06	Short circuit +5V flow meter	Check listed elements <ul style="list-style-type: none"> <li>• Check cables and wiring</li> </ul>
W07	No signal from flow meter	Check flow meter with diagnostic <ul style="list-style-type: none"> <li>• Check water supply</li> <li>• Check water pump and water pressure</li> <li>• Check electric contacts</li> <li>• Check the restrictor in the piston</li> <li>• Check brewing valve</li> </ul>
W08	Short circuit brewing valve [Y1]	Check valve with diagnostic <ul style="list-style-type: none"> <li>• Check cable from valve to control board</li> </ul>
W09	Short circuit bypass valve [Y6]	Check valve with diagnostic <ul style="list-style-type: none"> <li>• Check cable from valve to control board</li> </ul>
W10	Short circuit fill valve boiler [Y3]	Check valve with diagnostic <ul style="list-style-type: none"> <li>• Check cable from valve to control board</li> </ul>
W11	Short circuit right steam valve or pinch valve [Y5]	Check valve with diagnostic <ul style="list-style-type: none"> <li>• Check cable from valve to control board</li> </ul>
W12	Short circuit left steam valve [Y4]	Check valve with diagnostic <ul style="list-style-type: none"> <li>• Check cable from valve to control board</li> </ul>
W13	Short circuit cold rinse valve [Y10]	Check valve with diagnostic <ul style="list-style-type: none"> <li>• Check cable from valve to control board</li> </ul>
W14	Short circuit air valve [Y13A]	Check valve with diagnostic <ul style="list-style-type: none"> <li>• Check cable from valve to control board</li> </ul>
W15	Short circuit fridge right milk valve [Y12B]	Check valve with diagnostic <ul style="list-style-type: none"> <li>• Check cable from valve to control board</li> </ul>
W16	Short circuit fridge left milk valve [Y12A]	Check valve with diagnostic <ul style="list-style-type: none"> <li>• Check cable from valve to control board</li> </ul>
W17	Short circuit air pump [M6]	Check pump with diagnostic <ul style="list-style-type: none"> <li>• Check cable from pump to control board</li> </ul>
W18	Short circuit fridge right relay milk pump [K5]	Check relay with diagnostic <ul style="list-style-type: none"> <li>• Restart machine</li> <li>• Check cable from relay to control board</li> </ul>
W19	Short circuit fridge left relay milk pump [K4]	Check relay with diagnostic <ul style="list-style-type: none"> <li>• Restart machine</li> <li>• Check cable from relay to control board</li> </ul>
W20	Short circuit 4TEA cold water valve [Y2A]	Check valve with diagnostic <ul style="list-style-type: none"> <li>• Check cable from valve to control board</li> </ul>
W21	Short circuit 4EA hot water valve [Y2B]	Check valve with diagnostic <ul style="list-style-type: none"> <li>• Check cable from valve to control board</li> </ul>
W22	Short circuit iSteam air valve [Y14A]	Check valve with diagnostic <ul style="list-style-type: none"> <li>• Check cable from valve to control board</li> </ul>
W23	Short circuit iSteam steam valve [Y14]	Check valve with diagnostic <ul style="list-style-type: none"> <li>• Check cable from valve to control board</li> </ul>

Code	Fault description	Solution
W24	Short circuit AUX1 output	Check output with diagnostic <ul style="list-style-type: none"> <li>• Check cable from output to control board</li> </ul>
W25	Short circuit brewing heater	Check heater with diagnostic <ul style="list-style-type: none"> <li>• Check cable from heater to control board</li> </ul>
W26	Short circuit temperature sensor coffee boiler	Check temperature sensor with diagnostic <ul style="list-style-type: none"> <li>• Check cable from sensor to control board</li> </ul>
W27	Temperature sensor coffee boiler interrupted	Check temperature sensor with diagnostic <ul style="list-style-type: none"> <li>• Check cable from sensor to control board</li> </ul>
W28	Short circuit pressure sensor of steam boiler	Check pressure sensor with diagnostic and compare with manometer <ul style="list-style-type: none"> <li>• Check cable from sensor to control board</li> </ul>
W30	iSteam sensor interrupted	Check iSteam sensor with diagnostic <ul style="list-style-type: none"> <li>• Check cable from sensor to control board</li> </ul>
W31	Short circuit iSteam sensor	Check iSteam sensor with diagnostic <ul style="list-style-type: none"> <li>• Check cable from sensor to control board</li> </ul>
W32	Timeout steam boiler filling (120 seconds)	Check filling valve boiler with diagnostic <ul style="list-style-type: none"> <li>• Check if the water is connected and the tap is open</li> <li>• Check pump</li> <li>• Check non return valve</li> <li>• Check level sensor</li> </ul>
W33	Timeout coffee boiler filling (80 seconds)	Check if the water is connected and the tap is open Install the machine according the installation manual! <ul style="list-style-type: none"> <li>• Check pump pressure (&lt; 10 bar in Diagnostic)</li> <li>• Check pressure relief valve 11bar</li> <li>• Check non return valve boiler inlet</li> <li>• Brewing valve does not close</li> <li>• Check Flowmeter</li> </ul>
W34	Timeout steam boiler pressure (600 seconds)	Check heater steam boiler with diagnostic <ul style="list-style-type: none"> <li>• Check power supply</li> <li>• Check temperature switch F11 A + B</li> <li>• Check pressure sensor</li> </ul>
W35	Timeout coffee boiler temperature (180 seconds)	Check heater coffee boiler with diagnostic <ul style="list-style-type: none"> <li>• Check power supply</li> <li>• Check temperature switch F10 A + B</li> <li>• Check temperature sensor</li> </ul>
W36	Incompatibility between parameters and the SW- version	Switch off and on again – Repeat the SW update <ul style="list-style-type: none"> <li>• Use the latest version of the software from our download area</li> </ul>
W37	Check the clock on the menu or on the control board	Check clock – adjust clock – check clock after some minutes <ul style="list-style-type: none"> <li>• When repeating the error message remove jumper J10 for 10 min and place it again. Adjust clock.</li> </ul>
W38	Incompatibility between the messages and the SW	Check SW and message version
W39	Interruption between control board and powder module	Check if powder module is switched on <ul style="list-style-type: none"> <li>• Check cable from powder module to control board of the coffee machine</li> </ul>
W40	Short circuit +12V powder board	Check board of powder module
W41	Over temperature mixer motor	Check mixer motor with diagnostic <ul style="list-style-type: none"> <li>• Check cable from motor to control board</li> <li>• Check if something blocks the mixer</li> </ul>
W42	Short circuit mixer motor	Check mixer motor with diagnostic <ul style="list-style-type: none"> <li>• Check cable from motor to control board</li> </ul>
W43	Overcurrent mixer motor	Check mixer motor with diagnostic <ul style="list-style-type: none"> <li>• Check cable from motor to control board</li> <li>• Check if something blocks the mixer</li> </ul>
W44	Over temperature left screw drive motor	Check left screw drive with diagnostic <ul style="list-style-type: none"> <li>• Check cable from motor to control board</li> <li>• Check if something blocks the left screw drive</li> </ul>
W45	Short circuit left screw drive motor	Check left screw drive with diagnostic <ul style="list-style-type: none"> <li>• Check cable from motor to control board</li> </ul>

Code	Fault description	Solution
W46	Overcurrent left screw drive motor	Check left screw drive with diagnostic <ul style="list-style-type: none"> <li>Check cable from motor to control board</li> <li>Check if something blocks the left screw drive</li> </ul>
W47	Over temperature right screw drive motor	Check right screw drive with diagnostic <ul style="list-style-type: none"> <li>Check cable from motor to control board</li> <li>Check if something blocks the right screw drive</li> </ul>
W48	Short circuit right screw drive motor	Check right screw drive with diagnostic <ul style="list-style-type: none"> <li>Check cable from motor to control board</li> </ul>
W49	Overcurrent right screw drive motor	Check right screw drive with diagnostic <ul style="list-style-type: none"> <li>Check cable from motor to control board</li> <li>Check if something blocks the right screw drive</li> </ul>
W50	Hot water valve interrupted [J4]	Check hot water valve with diagnostic <ul style="list-style-type: none"> <li>Check cable from valve to control board</li> </ul>
W51	Fan interrupted [J6]	Check fan with diagnostic <ul style="list-style-type: none"> <li>Check cable from sensor to control board</li> </ul>
W52	Short circuit +24V hot water valve [J4]	Check hot water valve with diagnostic <ul style="list-style-type: none"> <li>Check cable from valve to control board</li> </ul>
W53	Short circuit +24V fan [J6]	Check fan with diagnostic <ul style="list-style-type: none"> <li>Check cable from sensor to control board</li> </ul>
W54	Flowrate too small	Check flowmeter of the coffee machine with diagnostic <ul style="list-style-type: none"> <li>Check cables and wiring</li> <li>Check hot water valve powder module</li> </ul>
W55	Check fridge	Check fridge <ul style="list-style-type: none"> <li>Check cables and wiring</li> <li>Check correct working of milk valves and cold water valve</li> </ul>
W56	SC +24V Milk pumps	
W57	SC Milk sensor or extension board	
W60	Communication error pressure sensor milk	Check pressure sensor for milk level measurement in diagnostic
W61	Communication error Extension board	
W62	AS crashed into an object (e.g. high cup)	Not shown on the display
W63	AS blocked for 10 min. due to errors	
W64	CMF milk valve Y20 interrupted	Check CMF milk valve with diagnostic <ul style="list-style-type: none"> <li>Check cable from the valve to the board</li> </ul>
W65	CMF air valve Y21 interrupted	Check CMF air valve with diagnostic <ul style="list-style-type: none"> <li>Check cable from the valve to the board</li> </ul>
W67	Short circuit CMF milk valve Y20	Check CMF milk valve with diagnostic <ul style="list-style-type: none"> <li>Check cable from the valve to the board</li> </ul>
W68	Short circuit CMF air valve Y21	Check CMF air valve with diagnostic <ul style="list-style-type: none"> <li>Check cable from the valve to the board</li> </ul>
W70	CMF mixer error	Check CMF mixer with diagnostic <ul style="list-style-type: none"> <li>Check cable from the mixer to the board</li> </ul>
W71	SAG error grinder left	Check left SAG motor with diagnostic <ul style="list-style-type: none"> <li>Check cable from the motor to the board</li> </ul>
W72	SAG error grinder right	Check right SAG motor with diagnostic <ul style="list-style-type: none"> <li>Check cable from the ^motor to the board</li> </ul>
W73	AS error in upstroke or AS motor shorted	