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3 Faults

3.1 Fault Diagnosis

Fault	Possible cause	Remedy
No function, no display	- Left door open - Safety switch defective - Power supply interrupted - Cable harness defective - Electronic control defective - Plug contact fault - Dry running protection of the boiler has been triggered or is defective - Boil over sensor has been triggered or is defective - Fuse defective	- Close the door - Check the safety switch, replace it if necessary (see chap. K.2) - Check the power supply - Check the fuse in the power supply unit, replace it if necessary - Check the power supply cable, replace it if necessary (see chap. K.2) - Replace the cable harness (see chap. K.2) - Replace the electronic control (see chap. K.2) - Check plug contacts - Check water contents of the boiler, refill if necessary - Press the reset button - Check the water supply to the boiler - Plug on the cable harness: pin on the upper connection, check the boil over protection for conductivity - Check the contacts - Press the reset button - Check the contacts - Check the upper and lower connection for conductivity - Check the power supply, replace the fuse if necessary
Display «LO» Temperature sensor below switching value	- Water temperature in the boiler is too low	- Wait until the display is erased - Check the contacts - Bridge contacts P4 (5, 6) (display "LO" is erased) - Check the temperature sensor resistor for a terminate value (disconnect plug P4 from the control, measure at the plug, range kOhm)
No display (pot selection not active)	- Pot has been removed during the brewing cycle - Cup carrier not swung in sufficiently - Sensor cup carrier defective - Cable harness defective - Contact fault	- Place a pot on the pot carrier - Move the pot further onto the pot carrier - Check the sensor board, replace it if necessary (see chap. K.2) - Check the cable harness, replace it if necessary (see chap. K.2) - Check the contacts
Noise from the brewer Brewer speed is not regulated	- Brewer tacho defective - Contact fault - Cable harness defective	- Check the brewer tacho, replace it if necessary (see chap. K.2) - Check the contacts (check cable harness P3 for conductivity) - Check the cable harness, replace it if necessary (see chap. K.2)

Fault	Possible cause	Remedy
Delivery buttons not active, no display	- Cup/pot too small or too transparent - Sensor defective	- Use a larger or darker vessel - Check the sensor board, replace it if necessary (see chap. K.2)
Undefined displays during programming	- Fault in the electronic control - Control defective	- Switch the dispenser off at the main switch, then switch it back on - Check the electronic control, replace it if necessary (see chap. K.2)
ALL 3 LEDs flash for 5 sec.	- A beverage delivery was started while the door was open - Safety switch defective - Cable harness defective	- Close the door - Check the safety switch, replace it if necessary (see chap. K.2) - Check the cable harness, replace it if necessary (see chap. K.2)
Display «E0» Constant display in water programming mode, flashing display during beverage delivery «Dosing without water»	- Time of powder dosing is longer than the time of water dosing - Dosing motor tacho defective - Contact fault - Cable harness defective	- Either reduce the beverage strength or increase the water quantity (adjustment in the programming mode) - Check the dosing motor, replace it if necessary (see chap. K.2) - Check the contacts - Check the cable harness (P3), replace it if necessary (see chap. K.2)
Display «E1» «Leak in water system» 120 sec. after switching on or during operation after 45 sec. after the inlet valve has opened the water level sensor does not detect the nominal value (times see manufacturer's settings)	- Water cock closed or not opened sufficiently - Leak in the water supply or in the valves - Inlet valve calcified - Water hose not connected - Water level electrode defective - Contact fault at electrode - Contact fault at inlet valve - Fault in 24 V supply - Safety switch defective - Dry running protection of the boiler has been triggered or is defective - Boil over sensor has been triggered or is defective	- Open the water cock - Check the water supply and the valves for leaks, repair if necessary - Check the inlet valve, replace it if necessary (see chap. A.2) - Connect water supply hose - Pull out the electrode and connect it to earth potential, check if inlet valve (water inlet) closes (note: place drain into a vessel and open it) - Check the contacts - Check the electrical contacts - Check the control (24 V) at P1 (3, 4) - Check the safety switch, replace it if necessary (see chap. K.2) - Check the water contents of the boiler, refill if necessary. Press the reset button - Check the water supply to the boiler - Plug on boiler cable harness: pin on upper connection, check boil over protection for conductivity - Check the contacts - Press the reset button - Check the contacts - Check for conductivity between upper and lower connection

Fault	Possible cause	Remedy
Display "E2" "Heating fault" Temperature sensor does not indicate nominal temperature 20 min. after the heating element has been switched on (no time limit for multibrew)	- Heating element calcified or defective - Water supply too cold - Temperature sensor maladjusted - Temperature sensor defective - Contact fault: heating element - Contact fault: temperature sensor - Fault in 24 V supply - Safety switch defective - Dry running protection of the boiler has been triggered or is defective - Boil over sensor has been triggered or is defective	- Check the heating element, replace it if necessary (see chap A.2). - Raise the temperature - Check the adjustment of the boiler temperature (see chap. A.2) - Check the temperature sensor resistor for a terminate value (pull plug P4 out of the control, measure at the plug range (kOhm). (see chap. A.2) **Warning! Electrical power! Switch the dispenser off, disconnect the power supply plug and check the contacts.** - Check the contacts - Bridge the contacts (the display "LO" is erased) - Check the control (24 V) at P1 (3, 4) - Check the safety switch, replace if necessary (see chap. K.2) - Check the water contents of the boiler, refill if necessary, press the reset button - Check the water supply to the boiler - Plug on boiler cable harness: pin on upper connection, check boil over protection for conductivity - Check the contacts - Press the reset button - Check the contacts - Check the upper and lower connection for conductivity
Display "E3" "Filter or brewing cylinder missing"	- Filter plate not mounted or not correctly mounted - Brewing cylinder not mounted or not correctly mounted - Fault in microswitch BC - Fault in microswitch BSSW - Fault in brewer cable harness	- Check correct position of filter plate holder and filter plate, correct position if necessary - Check the brewing cylinder, mount it correctly if necessary, check the plunger for defects, replace it if necessary - Check P3b (pin 1 and 2) for conductivity while the brewer is closed, check the plug at the brewer (pin 6) on the front connection BC for conductivity, check the plug connections, check the cable for conductivity - Check P3b (pin 1 and 2) for conductivity while the brewer is closed, check the positioning with a feeler gauge check the plug at the brewer (pin 7) on the front connection BSSW for conductivity, check the plug connections, check the cable for conductivity - Disconnect the brewer cable harness, carry out a visual check of the contacts

Fault	Possible cause	Remedy
Display "E4" "Rinsing process was interrupted"	- Rinsing button or safety switch was released during rinsing process - Fault in brewer cable harness	- Actuate button or switch until the rinsing process is completed - Disconnect the brewer cable harness, carry out a visual check of the contacts
Display "E5" "Motor blocked	- Filter plate calcified - Brewer dirty - Coffee grounds container too full when using filter paper - Actuator defective - Actuator motor defective - Fault in microswitch BAE	- Decalcify the filter plate (see operating instructions) - Clean the brewer (see chap. B.2) - Empty coffee grounds container - Check the actuator, replace it if necessary (see chap. B.2) - Check the actuator motor, replace it if necessary (see chap. B.2) - Check the contacts and cables, check P3b (3-4) on the front connection BSSW for conductivity, check the cable for conductivity
Display "E6" "Drip tray full"	- Water in drip tray - Drip tray sensor defective - Drip tray sensor dirty - Leak in dispenser	- Disconnect the power supply plug. Empty the drip tray - Check the contacts on the cable harness P5, check the cable for conductivity - Clean and dry the drip tray sensor - Check the water system
Display"E7" "EPROM fault" Internal fault in the dispenser	- EPROM defective.	- Replace EPROM (see chap. K.2)
Display "E8" "EEPROM fault" Internal fault in the dispenser	- EEPROM defective.	- Replace the electronic control (see chap. K.2)
Display "E9" "Button blocked" One of the buttons is pressed too long	- Operator's fault - Button blocked or defective - Humidity in the operating unit	- Shortly actuate the button several times - Check the function of the button, release it or replace it if necessary (see chap. D.2) - Check for humidity, if necessary dry or replace (see chap. D.2)

Disconnect the dispenser from the mains supply when checking the conductivity.
Explanation of abbreviations:

BAE = **B**rewer **a**t **e**nd
BC = **B**rewer **c**losed
BSSW = **B**rewer **s**afety **sw**itch