FAULT CODES
G7881

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6.6 Fault Repair

6.6.1 Fault Indication Without Flashing Or Lit Fault LED's

General Information

All faults registered by the electronic unit that do not involve water intake or drainage, or the dispenser systems are **saved in a fault code memory and not indicated via any warning LED's.** The last 3 detected faults are saved provided they are different. The most recently registered fault code is only stored if a different fault code (or no fault code) is already saved. This prevents the possibility of the same fault being recorded 3 times. The fault memory can be deleted via service mode 2.

6.6.2 Fault Indication With Flashing Or Lit Fault LED's

General Information

If a fault is registered for which one of the 5 fault LED's is provided, then the appropriate LED flashes at a frequency of 1 Hz and at the same time a fault code to aid further diagnosis is displayed in the digital display. **The fault code is not saved in the fault memory.** The program sequence indicator showing the stage the program has reached when the fault was detected remains active. When the program selector switch is turned to the 12 o'clock setting, the fault display is deleted and a new program can then be selected and started normally.

If a fault is registered before program start, e.g. an activated dispenser check registers an empty container, the appropriate fault LED e.g. **DOS**, flashes after program selection and the program cannot be started.

Water Intake/Drainage Fault LED

With these faults the top LED Intake/Drain flashes and the program is interrupted. At the same time one of the following fault codes are indicated in the digital display:

F 0E

After a delay of 5 seconds a flow meter in the water intake does not provide a minimum of 5 pulses within the next 2 seconds.

If no pulses are registered during the first water intake in a program with legally fixed cleaning parameters, then the program will only advance to the next step if the heating level switch switches to register sufficient water level. If it does not switch, the fault code **F 0E** is displayed.

In the test program the delay time has been extended from 5 seconds to 23 seconds as in this case it may be necessary for the appliance water paths to be filled.

F 1E

The water intake is switched off within 5 minutes even though the number of pulses for the set water intake quantity has not been registered

In programs (first water intake only) with legally fixed cleaning parameters a minimum water quantity is not monitored. To advance from the water intake step the heating level switch must have switched to register sufficient water level. If it does not switch, the fault code **F 1E** is displayed if the pulses from the flow meter are registered or the fault code **F 0E** is displayed when no pulses are detected.

F 2E

During water intake a flow meter provides sufficient pulses but the quantity of water required is not taken in during the given time of 5 minutes.

F 3E

2 seconds after the water intake step the heating level switch is monitored for 2 seconds. If it has not switched, the step is not advanced and the fault code **F 3E** is displayed. After a voltage interruption in the appropriate step, the heating level switch is not checked again. As it is possible to set a desired water quantity of 5.5 liters or 5 liters via programmable function E 01 in wash blocks VR1, VR2, SP2, and SP3, then with a desired water quantity less than or equal to 6 liters this fault monitoring is not active.

Salt Fault Indicator LED

If insufficient salt is registered in the salt container, the fault indicator LED Recharge softener lights up. The program is not interrupted.

F 23

If reactivation is carried out for a second time after a lack of salt has been registered, the fault indicator LED flashes and the fault code **F 23** is displayed. This fault is also recorded via the printer interface.

6.6.3 Door Seal Bulges

Cause

- Improper detergent use over time may cause damage to the seals in the appliance. Also the use of rinsing agents (when these contain paraffin oils) in the final rinse can cause the seal to swell after only a short period of time.

Remedy

- Use a different detergent.
- To protect seals, disinfecting, alkaline detergents with a high proportion of active chlorine should not be used at temperatures above 80ºC.

6.6.4 Door Cannot Be Locked

Cause

- Door seal incorrectly fitted and protrudes forward.
- Locking plate not correctly adjusted.

Remedy

- Remove the door seal and fit correctly.
- Adjust locking plate.

6.6.5 Temperature Limiter F2 (Thermostat) Has Cut-out

Cause
- The heating relay contacts (1K1/1 or 2K1/1) have fused together.
- Excessive foam developed in suds.

Remedy
- Check heating relay contacts for continuity when they are not activated.
- If continuity exists, replace the appropriate relay.
- Check quantity of rinse aid dispensed.
- Use a different rinse aid.

6.6.6 Repetitive Heater Element Fault In Cabinet

Symptom
- Short-circuit and/or body contact at heater elements.

Cause
- Over long periods excessively foaming suds may cause the heater elements to fail. May be caused by using non-Miele-approved detergent. A check can be made during washing by using the clear door.

Remedy
- Replace the heater element.
- Use only detergents recommended by Miele.

6.6.7 No Water Intake

Symptom
- Water intake only starts after rotation of the circulation pump has been registered.

Cause
- Circulation pump does not start.
- Waterproof system WPS valve does not open.

Remedy
- Check circulation pump for power or mechanical failure.
- Check speed sensor B3/9.
- Refer to fault code F 0E.

6.6.8 Flow Meter Minimum/Maximum Number Of Pulses Not Achieved

Cause

- Flow meter clogged by lime scale.
- Reed switch defective.

Remedy

- If clogged by lime scale, change flow meter.
- Check the reed switch for correct operation and seating.
- Check the reed switch connections and plugs.
- If necessary change the reed switch.

Note:
The flow meter is behind the temperature limiter F2.

6.6.9 Heating Level Switch Does Not Switch On

Cause

- Heating level switch does not react to water pressure.
- Excessively foaming detergent or rinse aid in the wash water. This reduces the wash water pressure developed by the circulation pump and applied to the heating level switch.

Remedy

- Check the switching point and continuity of the heating level switch.
- Replace the heating level switch if necessary.
- Use a different detergent or rinse aid.

6.6.10 Premature Failure Of Circulation, Dispenser Or Drain Pumps

Symptom

- After a short period of operation the pumps listed leak and seals swell up.

Cause

- Possible dispensing of rinsing agent in the final rinse in order to lubricate metal joints in the items being processed. If the rinsing agent contains paraffin oils, the lifetime of components with a sealing function is reduced.

Remedy

- Avoid using rinsing agents that contain paraffin oils.
- Use a Miele-approved rinsing agent.

6.6.11 Circulation Pump Does Not Start

Cause

- Circulation pump motor winding too hot and the winding protection device 1F3 has tripped (it resets automatically after approximately 10 minutes). Foreign bodies may be blocking the pump.
- Operating capacitor C6 defective

Remedy

- Check the circulation pump for correct operation.
- Check the circulation pump connection plug at the electronic unit.
- Check the circulation pump housing for foreign bodies, jammed motor, etc. Remove the pump housing if necessary.
- Check the plugs on the operating capacitor and the motor block for correct fitting.
- Replace the operating capacitor C6 if necessary.

6.6.12 Wash Cycles Take Longer To Heat Water

Cause

- Heater element defective.
- Heating relays 2K1/1 or 1K1/1 do not switch.

Remedy

- Check heater element for continuity.
- Replace the faulty heater element.
- Check solenoid voltage (6 V DC).
- Check plug connections
- Check solenoid for continuity.
- Check contacts for continuity.

6.6.13 Load Does Not Dry

Cause

- Heater relay 1K1/1 does not switch.
- Heater element R1 defective.

Remedy

- See also “Wash Cycles Take Longer To Heat Water”.
- Check heater element R1 for continuity.
- If necessary replace heater element R1.

6.6.14 Fault Codes

Fault Code	Symptom	Cause	Remedy
F 00	No registered fault	Machine functioning correctly	None
F 0E	Minimum number of pulses (5) not registered within the first 7 seconds. The program is interrupted.	No water intake	Check on site stop cocks
			Check filters in waterproof system valves
			Check hoses for kinks and blockages
			Check waterproof system
		No pulse provided by flowmeter	See “Flow meter min/max. number of pulses not achieved”
F 1E	Maximum number of pulses during water intake not reached within 5 minutes. Water intake is switched off	Water is taken in but pulses are irregular and the overflow level switches the water supply off before the maximum number of pulses have been registered.	See “Flow meter min/max. number of pulses not achieved”
			Check overflow level switch for correct operation.
		In programs with legally fixed cleaning parameters, the heating level switch has not switched during the water intake. Insufficient pulses have been registered.	Check on site stop cocks
			Check hoses for kinks and blockages
			Check circulation pump for correct operation
			Check circulation pump for blockages
			Check heating level switch for correct switching position
F 2E	Water intake is not completed within the given time of 5 minutes. The program is interrupted.	Desired water intake quantity not reached	Check water pressure of on site cold and hot water supplies
			Check on site stop cocks
			Check hoses for kinks and blockages
			Exchange restrictor insert in the waterproof system for a larger version.

Table 6-36: Fault Codes (Continue on Table 6-37)

Technical Information

Fault Code	Symptom	Cause	Remedy
F 3E	Heating level switch has not switched after water intake	Heating level switch defective	Check circulation pump for correct operation
			Check connection plugs and leads
			Check heating level switch for correct switching point (2 seconds after circulation pump starts at rated speed)
			Check circulation pump connection hoses for blockages
			See also “Heating level switch does not switch on”
F 4E	Flow meter provides pulses during a non-water intake step	Appropriate water intake valve is open	Check water inlet valve for correct operation
			Exchange waterproof system unit if necessary
			Check if voltage is applied to water inlet valve when machine is switched off
			If voltage is applied to water inlet valve when machine is switched off, exchange electronic unit
F A	The heating level switch has switched after a drainage step	Residual water still in cabinet	Check drain pump
			Check drain hoses for kinks or blockages
F SA	The insufficient salt warning indicator has been ignored for too long	Even though the insufficient salt warning LED has been lit, reactivation salt has not been added	Fill salt container with reactivation salt
			See also “Fault Code F 23”
F do	During dispensing no medium flow has been detected. A float switch for flow monitoring (B8) is not fitted as standard in the G7881 – G7883.	Dispenser pump not primed	Prime the dispenser pump
S F1		Coarse filter operating hours warning	Change Coarse Filter on drying unit

Table 6-37: Fault Codes (Continue from table 6-36) (Continue on Table 6-38)

Fault Code	Symptom	Cause	Remedy
F 01	Wash water temperature T1 in wash block HR1 (main wash) not reached within 60 minutes	Temperature limiter F2 has cut out	Temperature limiter F2 (thermostat) resetting
			If necessary, exchange the temperature limiter, see “Temperature limiter F2 (thermostat) exchange”
		Heater elements do not heat up	“Heater element check”
			If necessary, exchange the heater elements, see “Heater element removal”
		Heating level switch does not switch	See also “Heating level switch does not switch on”
		Voltage (6 VD) from the electronic unit not present. The heating level switch controls the heating relay voltage	Check plug connections
			Check electronic unit output voltage
F 02	Wash water temperature T2 in wash block NS2 not reached within 60 minutes	Temperature limiter F2 has cut out	Temperature Limiter F2 (thermostat) resetting
			If necessary, exchange the temperature limiter, see “Temperature limiter F2 (thermostat) exchange”
		Heater elements do not heat up	“Heater element check”
			If necessary, exchange the heater elements, see “Heater element removal”
		Heating level switch does not switch	See also “Heating level switch does not switch on”
		Voltage (6 VDC) from the electronic unit not present. The heating level switch controls the heating relay voltage.	Check plug connections
			Check electronic unit output voltage

Table 6-38: Fault Codes (Continue from table 6-37) (Continue on Table 6-39)

Fault Code	Symptom	Cause	Remedy
F 04		Water NTC sensor or its leads open-circuited	Check leads and plug connections
			Exchange leads if necessary
F 05		Water NTC sensor or its leads short-circuited	Check leads and plug connections
			Exchange leads if necessary
F 08	The speed sensor B3/9 does not provide any pulses though they are required (e.g. with gentle start mechanism)	Speed sensor defective	“Speed senor B3/9 check”
			Check leads and plug connections
			Check correct seating of speed sensors on circulation pump
			Check voltage supply
			Exchange speed sensor if necessary
		Circulation pump blocked	See “Circulation pump does not start”
F 09	Mains frequency not registered. Applies particularly to buildings with their own on-site power supply or where there is insufficient filtering of high-frequency mains interference.	Changeover from mains operation to operation with emergency power supply or on-site power supply.	None
		Unstable mains frequency	Check the sine wave oscillation of the mains frequency carry out appropriate corrective measures to stabilize the mains frequency
			With irregular sine wave or unstable mains frequency carry out appropriate corrective measures to stabilize the mains frequency

Table 6-39: Fault Codes (Continue from table 6-38) (Continue on Table 6-40)

Fault Code	Symptom	Cause	Remedy
F 10		Failure of one or more optical selector switch LEDs	Exchange electronic unit
F 11	The additional module can not be addressed via the I^2C bus	Bus leads defective	Check the buss leads and plug connections
			Exchange electronic unit if necessary
F 12	Drying temperature has not been reached (warning and fault indication)	Fan in drying unit (TA) is defective	See “Drying unit fan inoperative” See “Drying temperature not reached” See “Air from drying unit is not warm” See “Drying unit fan operates too slowly” See “Drying unit fan does not start”
F 13	The serial interface (RS 232) cannot be addressed via the I^2C bus	Electronic unit defective	Exchange electronic unit
F 14	An impermissible mains failure was registered when a cleaning program was in operation	Mains fuse has tripped	Check mains fuse and repair any possible short circuits
		A possible changeover from mains operation to operation with emergency power supply or own supply has taken too long	None
F 17	The external electronic module TUE has registered that the desired temperature has been exceeded. This only applies to model G7783CD		None

Table 6-40: Fault Codes (Continue from table 6-39) (Continue on Table 6-41)

1 CD Models only.

Fault Code	Symptom	Cause	Remedy
F 18	Wash water temperature T4 in wash block HR2 not reached within 60 minutes	Temperature limiter F2 has cut out	Temperature limiter F2 (thermostat) resetting
			If necessary, exchange the temperature limiter, see “Temperature Limiter F2 (thermostat) exchange”
		Heater elements do not heat up	“Heater element check”
			If necessary, exchange the heater elements, see “Heater element removal”
		Heating level switch does not switch	See also “Heating level switch does not switch on”
		Voltage (G VDC) from the electronic unit not present. The heating level switch controls the heating relay voltage	Check plug connections Check electronic unit output voltage
F 20		Water check NTC sensor or its leads short-circuited (monitoring processor)	Check leads and plug connections
			Exchange leads if necessary
F 21		Water check NTC sensor or its leads open-circuited (monitoring processor)	Check leads and plug connections
			Exchange leads if necessary
F 22		Temperature variation between the two NTC sensors too large	Check leads and plug connections
			Exchange leads if necessary
		One of the NTC sensors has incorrect resistance	Compare resistance values of both NTC sensors
			Exchange an NTC sensor if necessary
		Objects in the cabinet could prevent the flow of wash water to a sensor	Redistribute objects in the cabinet

Table 6-41: Fault Codes (Continue from table 6-40) (Continue on Table 6-42)

Fault Code	Symptom	Cause	Remedy
F 24	Triac failure. The speed sensor provides pulses even though the circulation pump is not activated.	Control module defective	Exchange control module
F 25	Heating level switch has switched before a program has started	Check heating level switch switching points	Exchange heating level switch if necessary
F 26	Float switch B8/3 (overflow) has switched	Water present in drip tray	Check machine for leaks (hoses, seal etc)
F 27	Desired temperature in one of the wash blocks VR, SP1, SP2, SP3 or SP4 not reached	Temperature limiter F2 has cut out	Temperature limiter F2 (thermostat) resetting
			If necessary, exchange the temperature limiter, see “Temperature limiter F2 (thermostat) exchange”
		Heater elements do not heat up	“Heater element check”
			If necessary exchange the heater elements, see “Heater element removal”
		Heating level switch does not switch	See also “Heating level switch does not switch on”
		Voltage (6 VDC) from the electronic unit not present. The heating level switch controls the heating relay voltage	Check plug connections
			Check electronic unit output voltage
F --		Undefined fault in electronic unit	Exchange electronic unit

Table 6-42: Fault Codes (Continue from table 6-41) (Continue on Table 6-43)

Fault Code	Symptom	Cause	Remedy
Water Drain Fault	Water drainage fault approximately 20 seconds after start of water intake step	The water drainage check 20 seconds after the start of the water intake step is carried out by checking the heater pressure monitor (HDW). With a high mains water supply pressure and at the same time a high opening tolerance of the inlet valves, too much water may flow into the machine. The heater pressure monitor (1500.700) switches too early	From machine No. 18131352 a different heater pressure monitor (2400/700) has been fitted
			Exchange the existing heater pressure monitor (1500/700) with Mat No. 04441453 for the heater pressure monitor (2400/700) with Mat No. 05419710.

Table 6-43: Fault Codes (Continue from table 6-42)