

## **SERVICING INSTRUCTIONS**

### **WASHING MACHINES**

**4-022-0414**

#### **PG3 - FAILURES**

<b>FAILURE</b>	<b>SHORT DESCRIPTION</b>	<b>DESCRIPTION</b>	<b>FAILURE DISPLAY</b>
F1	connection to temperature sensor open or short-circuited	The failure is set, if the connection to the temperature sensor is open or if there is a short circuit between the two terminals of the sensor. The washing program will be ended without heating. The failure will be displayed at the end of the washing program.	On LCD:  ERROR 1
F2	The connection with door lock is open	The failure is set, if the connection to the door lock is open. The washing program will stop. The failure will be displayed. Supply of door lock will be ON. To start the washing program, the user has to close the door (program starts at once). To continue the program (if failure happens between washing program), the user has to check if the door is closed and press the „Start“-button. If the failure occurs again, the washing program stops. Supply of door lock will be OFF. If the water is in the machine, than pumping 2 minutes. Failure will be displayed again , and it is not possible to start the washing program again.	On LCD:  ERROR 2
F3	the water level was not reached.  - water tap closed - leak in the machine - valve defect	The failure is set, if within filling or heating step the water level is below level 1 for the filling time or 4 minutes in heating time. If the failure occurs the first time within a washing program, the current step starts again. If the failure occurs the second time (twice in succession), the washing program is stopped, and the failure will be displayed. To continue the washing program, the user has to press the „Start“-button. If the failure occurs the third time, the washing program stops, the failure will be displayed, and it is not possible to start the washing program again.	On LCD:  ERROR 3
F4	the connection to the tachogenerator is open or short-circuited	If the washing program is active and the motor control unit gets no signal from the tachogenerator, the first time the failure occurs a pause of 1 minute is executed. This repeat 3 times. If once happen that motor works O.K. than all previous failure must be deleted. When the failure is detected the 4 time's the washing program stops immediately. If the temperature is higher than 60°C than cool down with cold water 30 seconds. Then pumping water 2 minutes.	On LCD: ERROR 4

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		STOP the program. The failure will be displayed.	
F5	the triac is short-circuited	The failure is set, if the washing program is active and the motor is working without control of triac. The washing program is stopped immediately. After 2 minutes try again. If the failure is not present, than forget the first failure and continue work. If is the same failure again, than program stops complete. If the temperature is higher than 60°C than cool down with cold water 30 seconds. Then pumping water 2 minutes. STOP the program. The failure will be displayed.	On LCD: ERROR 5
F6	temperature not reached - heater defect	The failure is set, if after a heating step the temperature is more than 15°C lower than the rated temperature. The washing program will be ended normally. The failure will be displayed at the end of the washing program.	On LCD: ERROR 6
F7	the water level does not fall below level 1  - pump clogged - pump defect	The failure is set, if after a pumping step the water level did not fall below level 1. If the failure occurs the first time within a washing program, the current step will started again. If the failure occurs the second time (twice in succession), the washing program is stopped and the failure is displayed. To continue the washing program, the user has to press the „Start“-button. If the failure occurred the third time, the washing program is stopped and the failure is displayed. It is not possible to start the washing program again.	On LCD: ERROR 7
F8	The WM not reach max. spin speed (the tapped field relay does not switch)	The failure is set, if at the end of the spinning cycle of the testing program the spin is more than 100rpm lower than the rated speed. The failure is displayed after the end of the testing program.	On LCD: ERROR 8
F9	Water inside machine (Aqua Stop)	The failure is set, if Aqua Stop Sensor makes signal (must be measuring min. 2 seconds). All valves switch OFF, the heater switches OFF and main motor STOPS. After 3 seconds check again. If the failure is not present, than forget the first failure and continue with program. If the failure is still present, than switch ON the pump for 2 minutes and stop WM. The failure is displayed. It is not possible to start the washing program again.	On LCD: ERROR 9

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## **S E R V I C I N G   I N S T R U C T I O N S**

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#### **NOTE:**

According to the number of fault ton signal is on. This happens 10 times. After that there is no ton signal but on LCD writes fault till not push button START or switch the machine OFF.  
The most important fault is motor, than NTC, than water,...

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**4-027-0706**

#### Test program for WM with timer PG3

MANUEL ACTION	ACTIVITY	INDICATION
Press and hold buttons START/PAUSE and EASY IRONING and turn round the program knob for 1 step in left (anti-clock side)  ~10"	<b>Self test</b> of micro is executed and test program begins: - all segments on LCD goes ON for 2 sec. - after 2'' on top line write SELF TEST , on bottom line write max. spin speed for cotton and 99L and all symbols are ON - check if is Water clean sensor connect (read voltage at empty drum)  All step can be 10".	<ul style="list-style-type: none"> <li>If self test O.K, than on top line write OK (for 2'') and all other segments and symbols switch OFF</li> <li>If self test is not O.K., than on top line write ERROR all other segments and symbols switch OFF, WM stop</li> </ul>
~12"	<b>Door lock control</b> (text on top line DOOR) - PG3 activated door lock and wait, that contact is close - max.10 sec)	<ul style="list-style-type: none"> <li>If it is O.K. than on top line write DOOR OK (for 2'')</li> <li>If it is not O.K. than on top line write DOOR ERROR, WM stop</li> </ul>
~4"	<b>NTC control</b> (text on top line NTC)) - check resistance of NTC (can be between 10 to 40°C) <u>Min. 2 sec</u>	<ul style="list-style-type: none"> <li>If it is O.K. than on top line write NTC OK (for 2'')</li> <li>If it is not O.K. than on top line write NTC ERROR, WM stop</li> </ul>
~62"+20"	<b>Water filling</b> (text on top line WATER) Open the valves Hot Water, Main Wash and Pre Wash. Water goes in 3 different space in dispenser. - HW : 5'' (space 2), if it is connected to hot/cold water - PW : 10'' (space 1) - MW : 10'' (space 2) - PW + MW : to reach level 1 (space 1,2 and 3) - when reached level 1 than it is O.K. - max. time for all is 60"	<ul style="list-style-type: none"> <li>If it is O.K. (before 60'' reach level 1) than on top line write WATER OK (for 2'')</li> <li>If it is not O.K. than on top line write WATER ERROR, WM stop</li> </ul>
~12"	<b>Water clean sensor</b> (text on top line WATER SENSOR) Only check if it is connected (check voltage at water in drum together 10'')	<ul style="list-style-type: none"> <li>If it is connected than on top line write WATER SENSOR YES (for 2'')</li> <li>If it is not connected than on top line write WATER SENSOR NO</li> </ul>
~77"	<b>Washing and heating</b> (text on top line WASHING) - Washing: 15''ON / 5''OFF / 15''ON/5''OFF - 3 times repeats washing - last wash is in spin direction and without pause - Heater ON all time of washing All together is 75''. After this time switch OFF heater, washing goes to spinning.	<ul style="list-style-type: none"> <li>If it is O.K. (after finish wash) – washing in both direction, than on top line write WASHING OK (for 2'' – can be 2'' in spinning)</li> <li>If it is not O.K. than on top line write WASHING ERROR (for 2''), WM stop</li> </ul>
~40"	<b>Spinning with water</b> (text on top line SPIN) - 40'' spin from 50rpm to max.50 rpm (or speed define with Pad's, if is lower that 500 rpm) - wait to drum stop	
~42"	<b>Draining</b> (text on top line DRAIN) - switch pump ON for 40 " Check if water level fall under level 1	<ul style="list-style-type: none"> <li>If it is O.K. than on top line write DRAIN OK (for 2'')</li> <li>If it is not O.K. than on top line</li> </ul>

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~62"	<p><b><u>End spinning</u></b> (text on top line SPIN SPEED)</p> <ul style="list-style-type: none"> <li>- pump stay ON</li> <li>- 10'' spin from 0 rpm to max. rpm (if necessary switch ON tape field)</li> <li>- 50'' on max. spin speed</li> <li>- wait to drum stop</li> <li>- switch OFF all component</li> </ul>	<p>write DRAIN ERROR, WM stop</p> <ul style="list-style-type: none"> <li>• If it is O.K. than on top line write SPIN SPEED OK (for 2'')</li> <li>• If it is not O.K. than on top line write SPIN SPEED ERROR (for 2''), WM stop</li> </ul>
Turn the program knob on 0 (OFF) position.	<p><b><u>End the test program</u></b></p>	<ul style="list-style-type: none"> <li>• On top line exchange (each 1 sec.) END WATER SENSOR YES (or NO)</li> </ul>