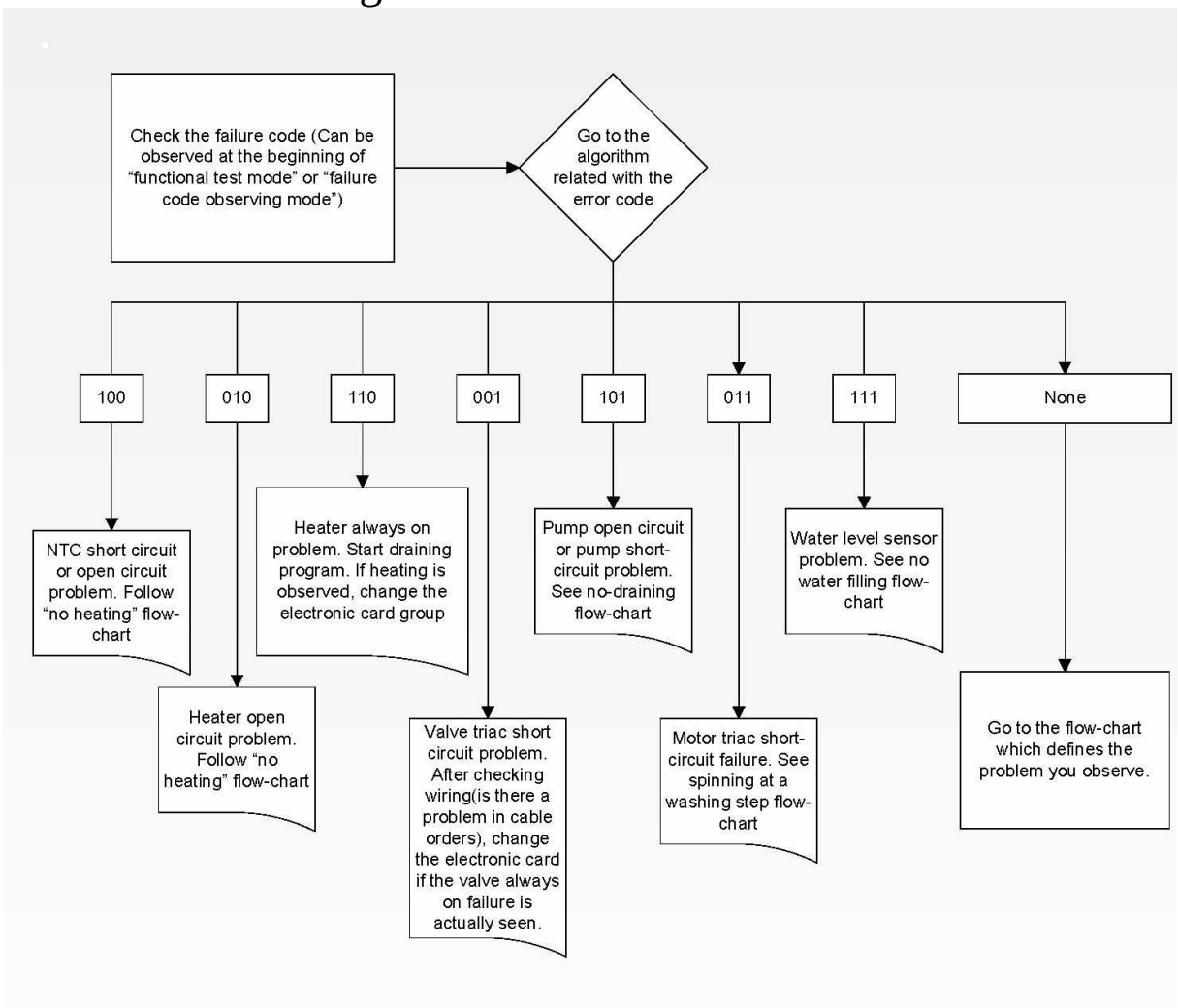
LISTO

Lave Linge Frontal **LF 1206-D1**

Aide au Diagnostic

- **Diagrammes de Dysfonctionnements**

- **Codes Erreur**



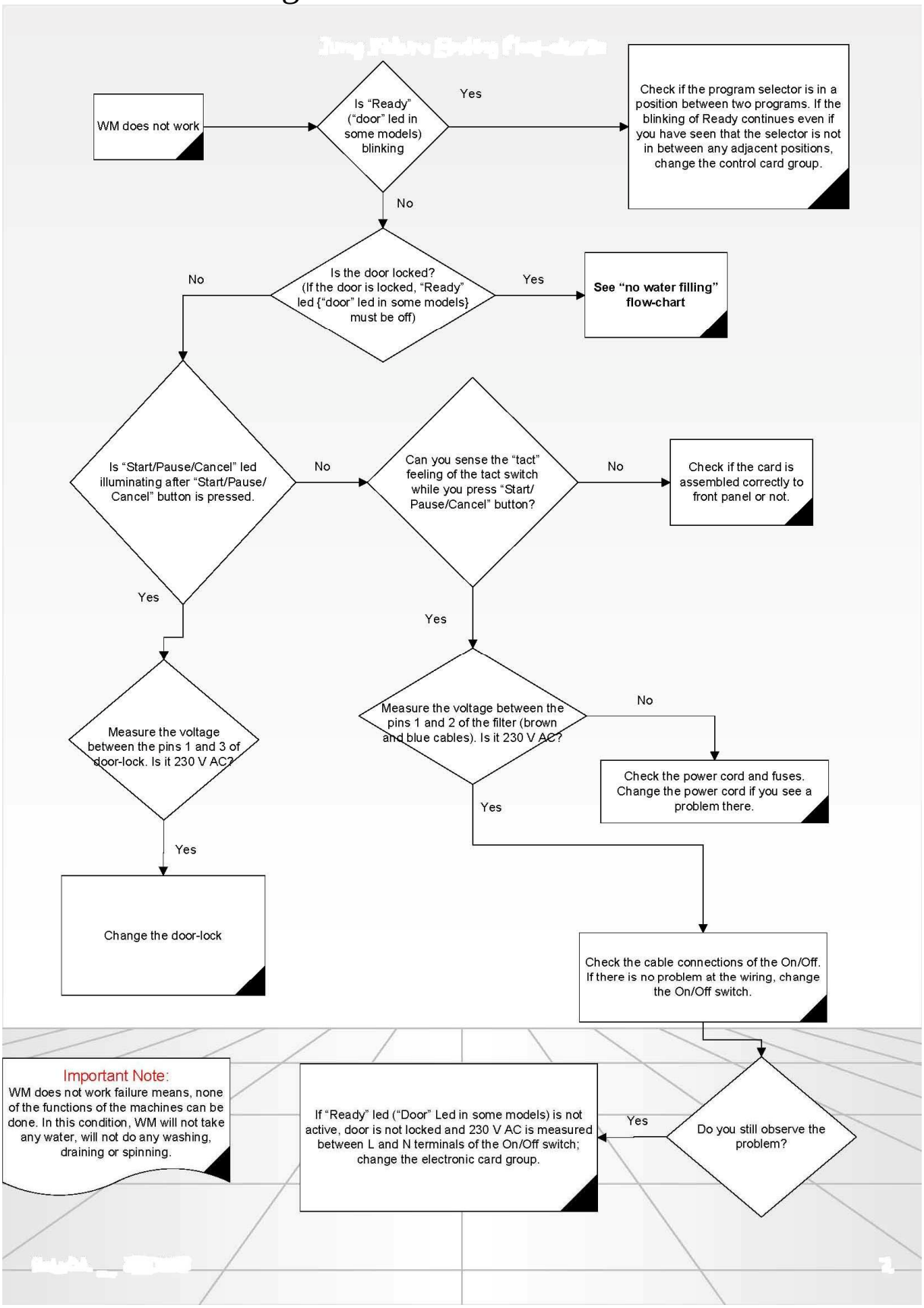
FAILURE CODE OBSERVING MODE

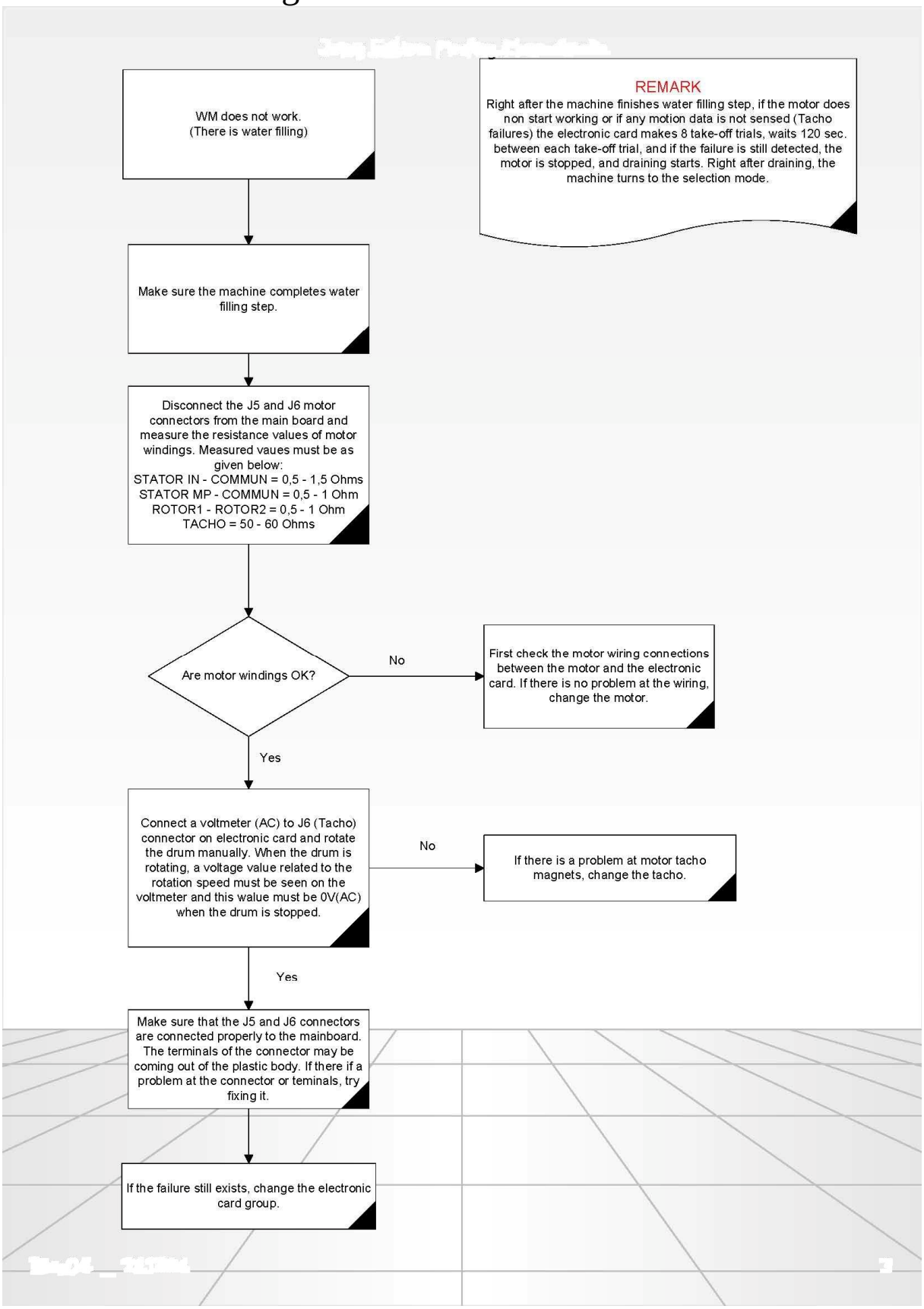
Entrance:

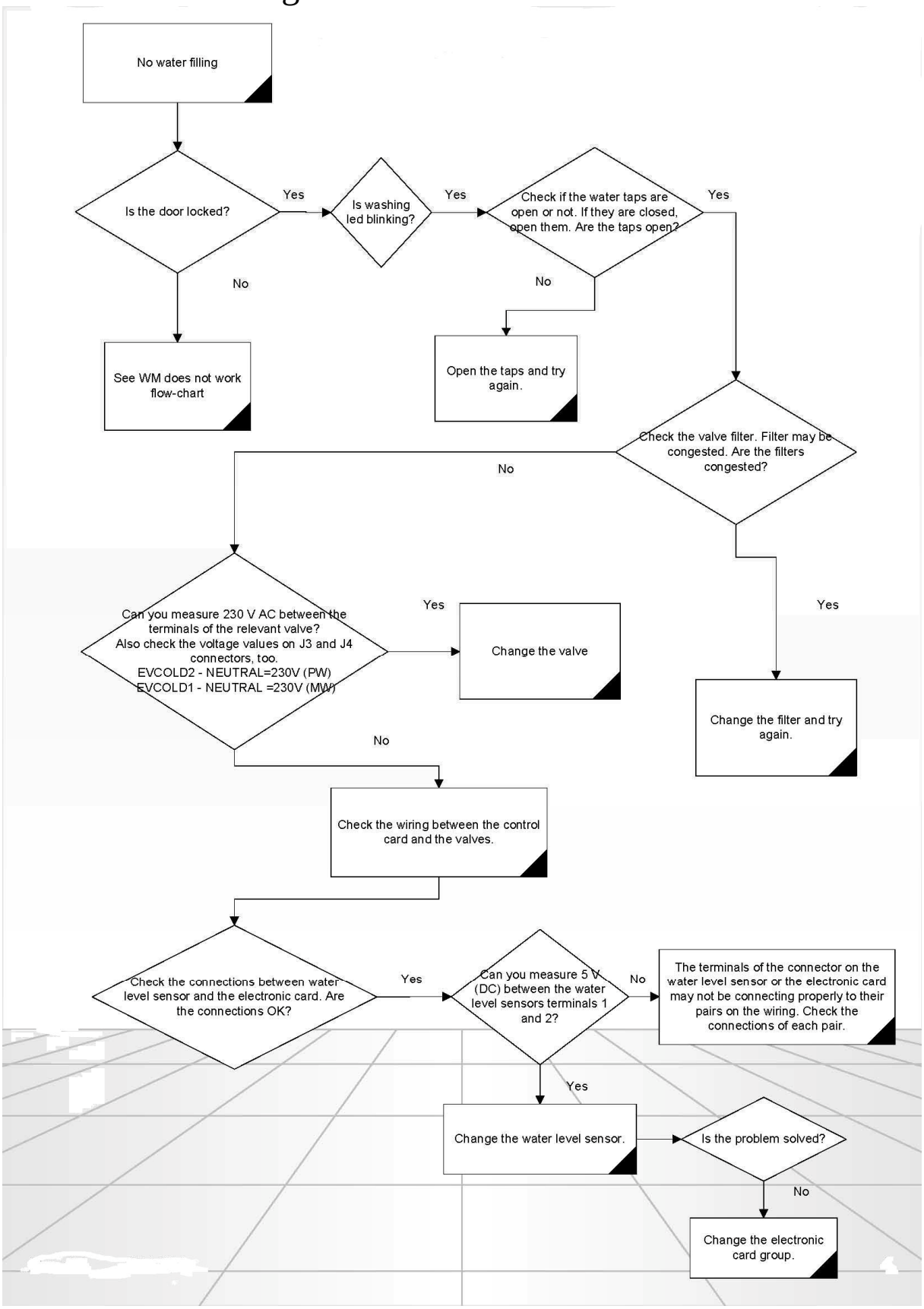
Press the first auxiliary function button from the left for 6 seconds. "Run/ Pause/Cancel" led will start blinking and the program followers will start blinking as an error code for 3 seconds if any failure routine has run. After 3 seconds, the machine will return to the selection mode.

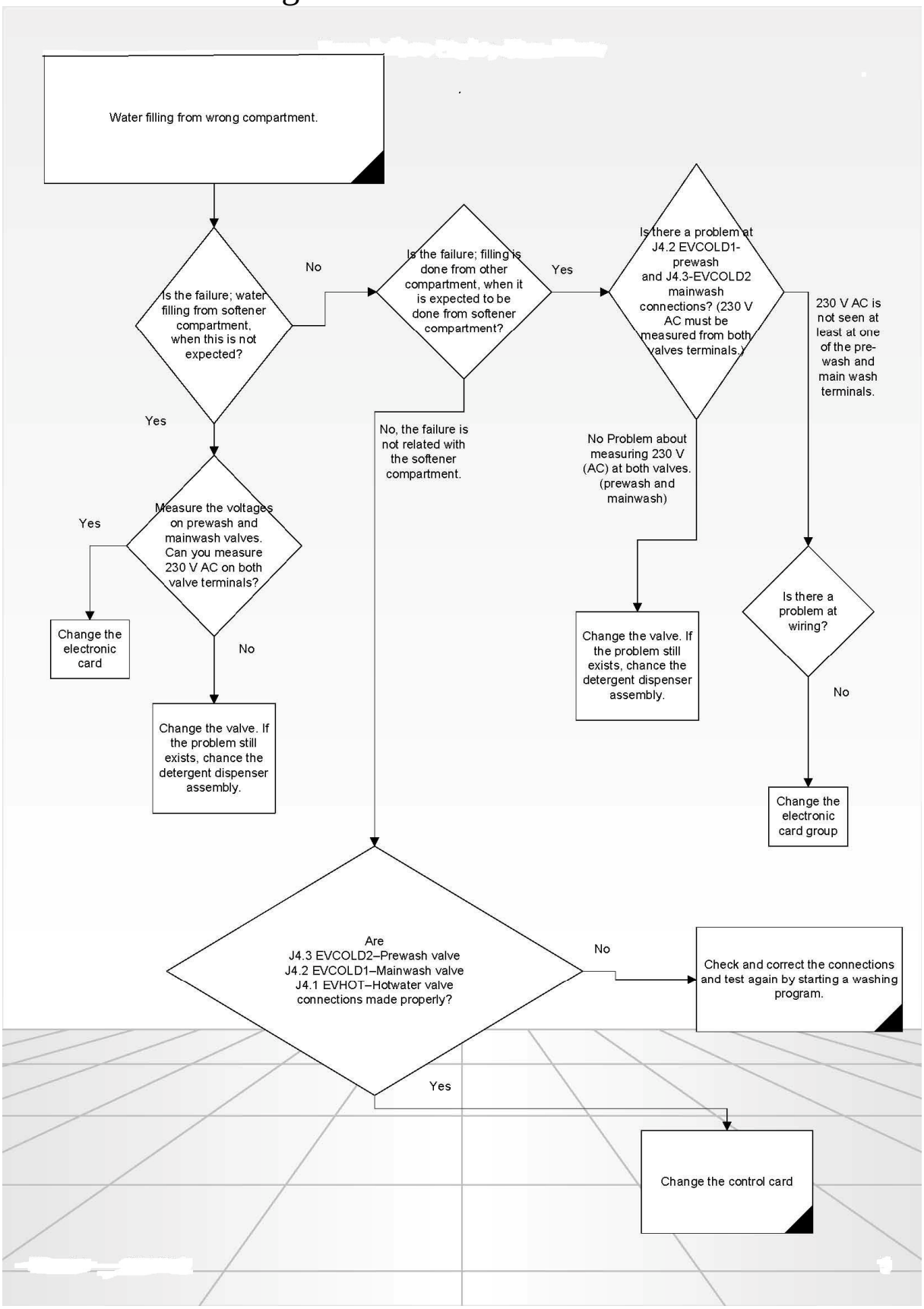
Deletion of the error code:

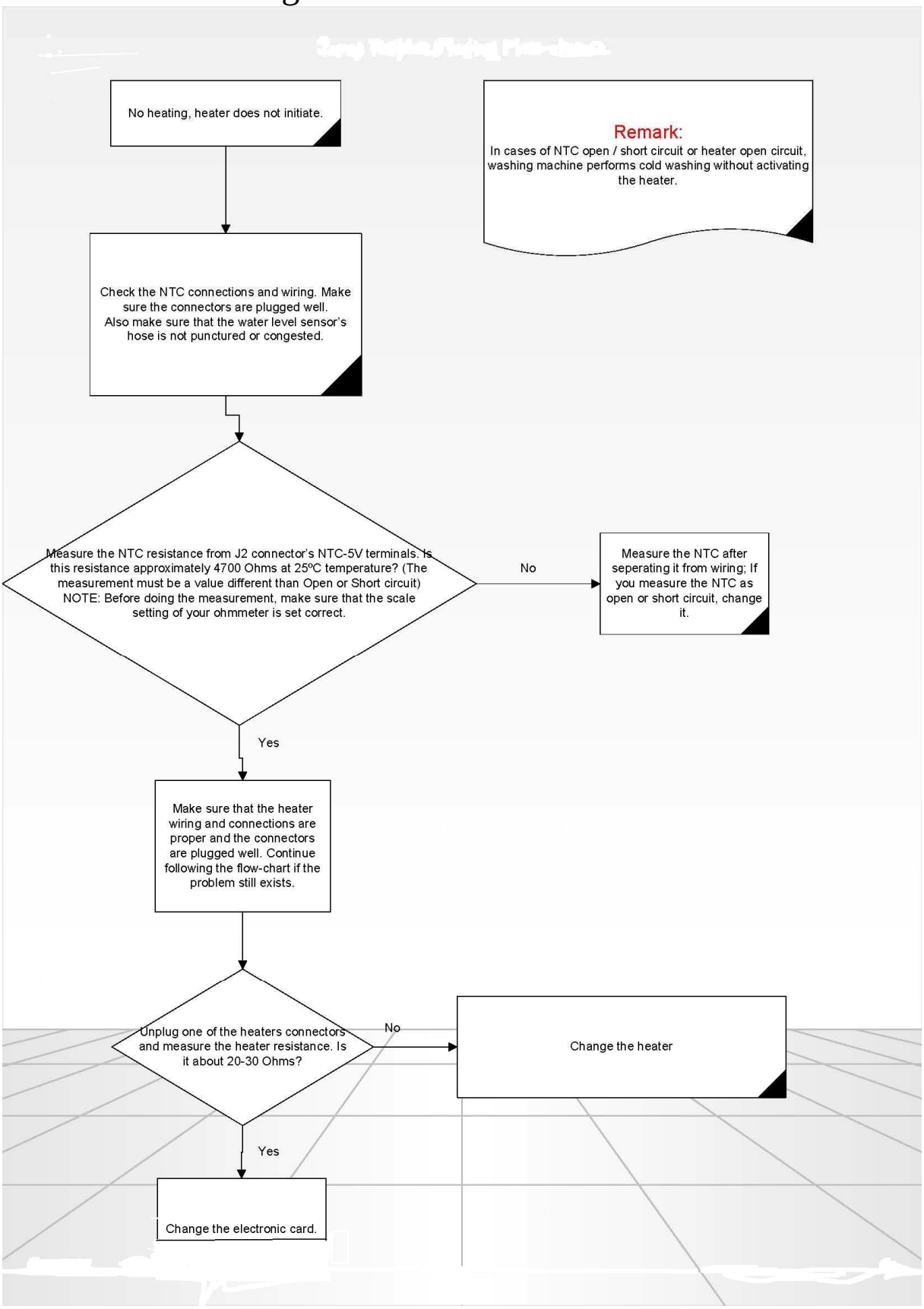
After entering the failure code observing mode, pressing and holding "Run/ Pause/Cancel" button for a short time will erase the error code from the memory. After you complete your inspection, if you are not sure that you have solved the problem and if you are going to change the electronic card group, do not erase the error code. For else cases, you may erase the error code.

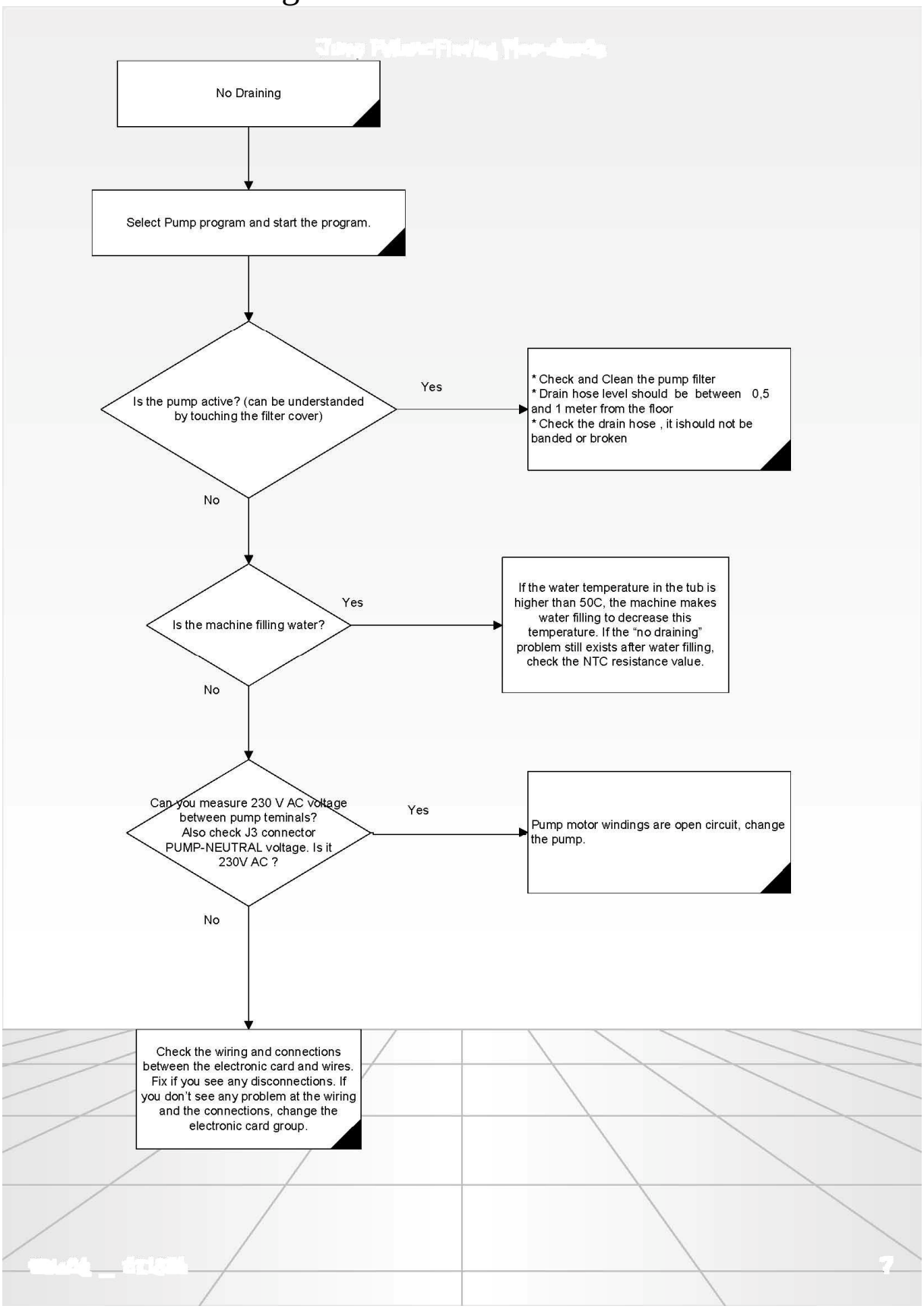

WM does not work
Is "Ready" ("door" led in some models) blinking
Yes
Check if the program selector is in a position between two programs. If the blinking of Ready continues even if you have seen that the selector is not in between any adjacent positions, change the control card group.
No
Is the door locked? (If the door is locked, "Ready" led {"door" led in some models} must be off)
No
Yes
See "no water filling" flow-chart
Is "Start/Pause/Cancel" led illuminating after "Start/Pause/ Cancel" button is pressed.
No
Can you sense the "tact" feeling of the tact switch while you press "Start/ Pause/Cancel" button?
No
Check if the card is assembled correctly to front panel or not.
Yes
Yes
Measure the voltage between the pins 1 and 3 of door-lock. Is it 230 V AC?
Measure the voltage between the pins 1 and 2 of the filter (brown and blue cables). Is it 230 V AC?
No
Check the power cord and fuses. Change the power cord if you see a problem there.
Yes
Yes
Change the door-lock
Check the cable connections of the On/Off. If there is no problem at the wiring, change the On/Off switch.
Important Note:
WM does not work failure means, none of the functions of the machines can be done. In this condition, WM will not take any water, will not do any washing, draining or spinning.
If "Ready" led ("Door" Led in some models) is not active, door is not locked and 230 V AC is measured between L and N terminals of the On/Off switch; change the electronic card group.
Yes
Do you still observe the problem?

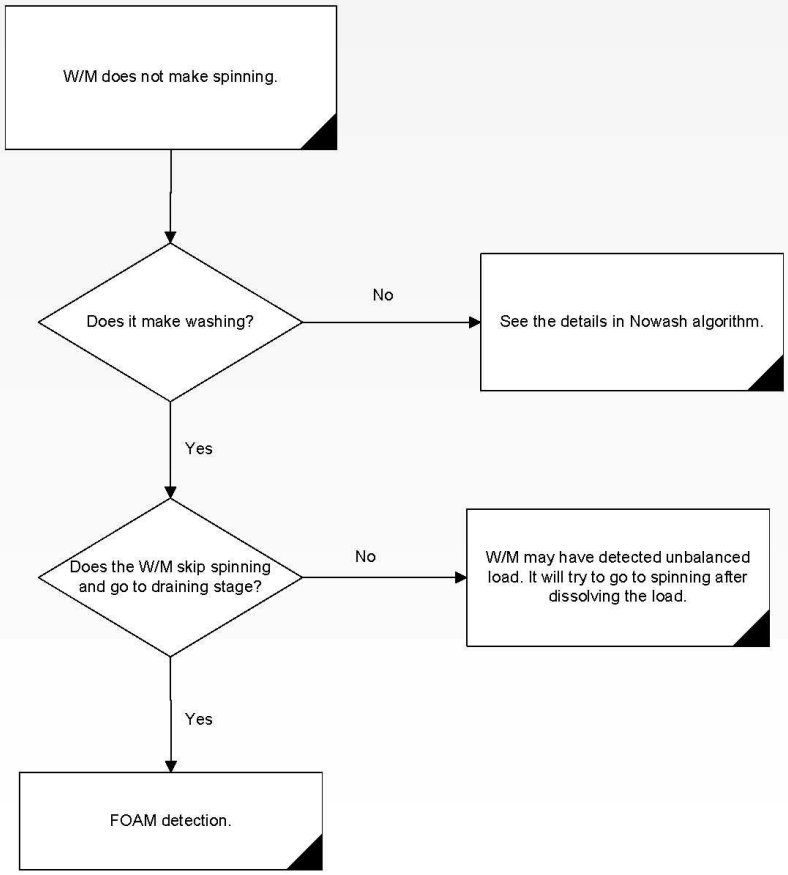

WM does not work.
(There is water filling)
REMARK
Right after the machine finishes water filling step, if the motor does non start working or if any motion data is not sensed (Tacho failures) the electronic card makes 8 take-off trials, waits 120 sec. between each take-off trial, and if the failure is still detected, the motor is stopped, and draining starts. Right after draining, the machine turns to the selection mode.
Make sure the machine completes water filling step.
Disconnect the J5 and J6 motor connectors from the main board and measure the resistance values of motor windings. Measured vaues must be as given below:
STATOR IN - COMMUN = 0,5 - 1,5 Ohms
STATOR MP - COMMUN = 0,5 - 1 Ohm
ROTOR1 - ROTOR2 = 0,5 - 1 Ohm
TACHO = 50 - 60 Ohms
Are motor windings OK?
No
First check the motor wiring connections between the motor and the electronic card. If there is no problem at the wiring, change the motor.
Yes
Connect a voltmeter (AC) to J6 (Tacho) connector on electronic card and rotate the drum manually. When the drum is rotating, a voltage value related to the rotation speed must be seen on the voltmeter and this walue must be 0V(AC) when the drum is stopped.
No
If there is a problem at motor tacho magnets, change the tacho.
Yes
Make sure that the J5 and J6 connectors are connected properly to the mainboard. The terminals of the connector may be coming out of the plastic body. If there if a problem at the connector or teminals, try fixing it.
If the failure still exists, change the electronic card group.

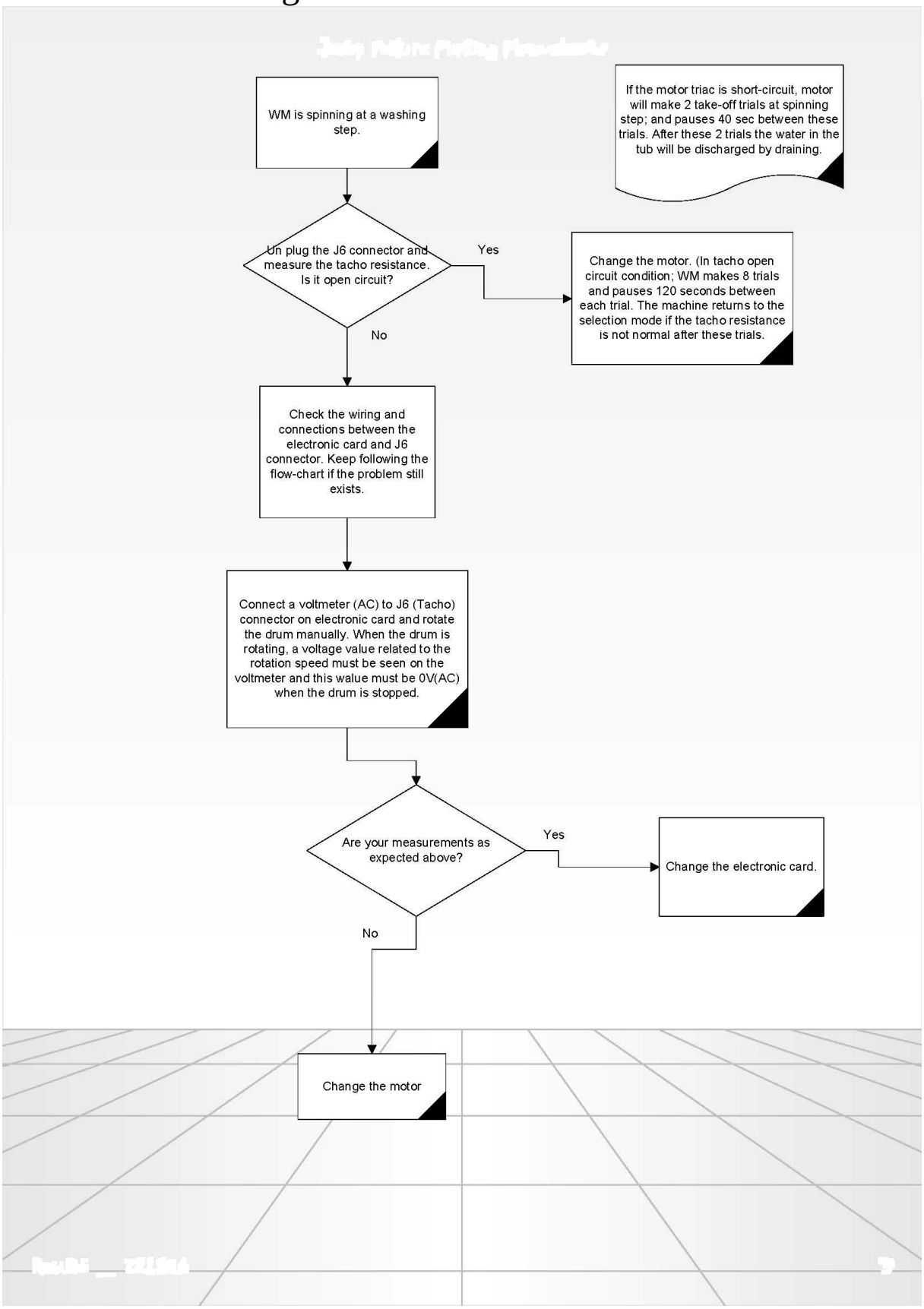

No water filling
Is the door locked?
Yes
Is washing led blinking?
Yes
Check if the water taps are open or not. If they are closed, open them. Are the taps open?
Yes
No
See WM does not work flow-chart
No
Open the taps and try again.
Check the valve filter. Filter may be congested. Are the filters congested?
No
Yes
Change the filter and try again.
Can you measure 230 V AC between the terminals of the relevant valve?
Also check the voltage values on J3 and J4 connectors, too.
EVCOLD2 - NEUTRAL=230V (PW)
EVCOLD1 - NEUTRAL =230V (MW)
Yes
Change the valve
No
Check the wiring between the control card and the valves.
Check the connections between water level sensor and the electronic card. Are the connections OK?
Yes
Can you measure 5 V (DC) between the water level sensors terminals 1 and 2?
No
The terminals of the connector on the water level sensor or the electronic card may not be connecting properly to their pairs on the wiring. Check the connections of each pair.
Yes
Change the water level sensor.
Is the problem solved?
No
Change the electronic card group.

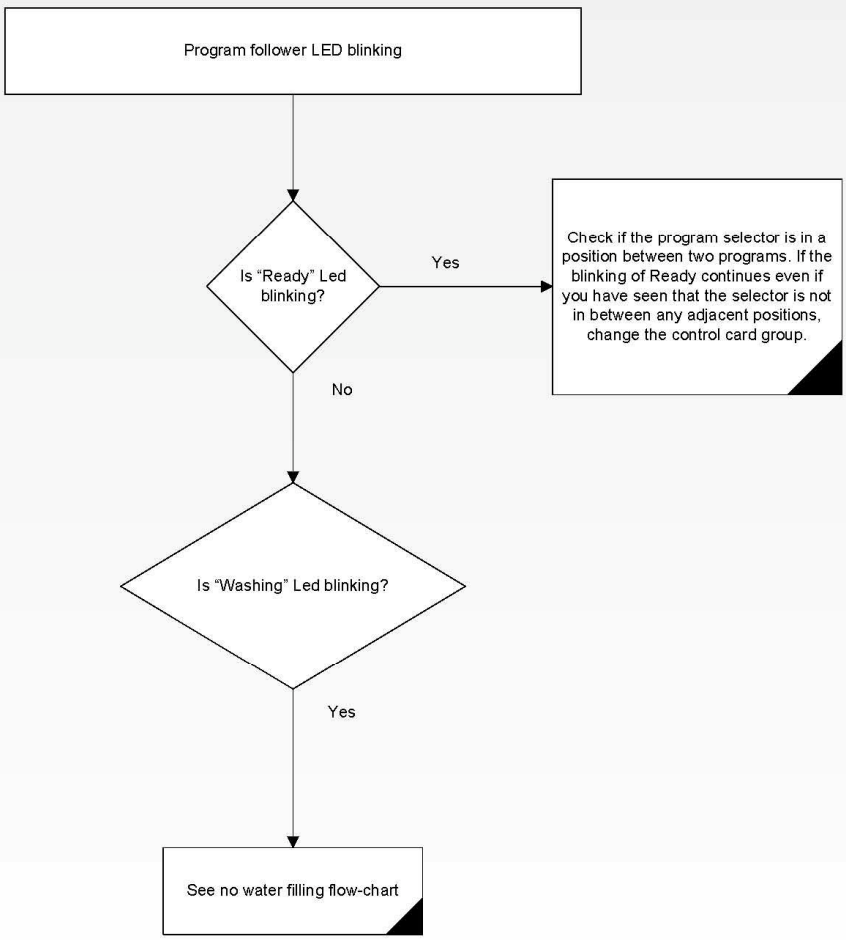

Water filling from wrong compartment.
Is the failure; water filling from softener compartment, when this is not expected?
No
Is the failure; filling is done from other compartment, when it is expected to be done from softener compartment?
Yes
Is there a problem at J4.2 EVCOLD1- prewash and J4.3-EVCOLD2 mainwash connections? (230 V AC must be measured from both valves terminals.)
230 V AC is not seen at least at one of the pre-wash and main wash terminals.
Yes
Measure the voltages on prewash and mainwash valves. Can you measure 230 V AC on both valve terminals?
Yes
Change the electronic card
No
Change the valve. If the problem still exists, chance the detergent dispenser assembly.
No, the failure is not related with the softener compartment.
No Problem about measuring 230 V (AC) at both valves. (prewash and mainwash)
Change the valve. If the problem still exists, chance the detergent dispenser assembly.
Is there a problem at wiring?
No
Change the electronic card group
Are
J4.3 EVCOLD2–Prewash valve
J4.2 EVCOLD1–Mainwash valve
J4.1 EVHOT–Hotwater valve
connections made properly?
No
Check and correct the connections and test again by starting a washing program.
Yes
Change the control card


No heating, heater does not initiate.
Remark:
In cases of NTC open / short circuit or heater open circuit, washing machine performs cold washing without activating the heater.
Check the NTC connections and wiring. Make sure the connectors are plugged well. Also make sure that the water level sensor's hose is not punctured or congested.
Measure the NTC resistance from J2 connector's NTC-5V terminals. Is this resistance approximately 4700 Ohms at 25ºC temperature? (The measurement must be a value different than Open or Short circuit) NOTE: Before doing the measurement, make sure that the scale setting of your ohmmeter is set correct.
No
Measure the NTC after seperating it from wiring; If you measure the NTC as open or short circuit, change it.
Yes
Make sure that the heater wiring and connections are proper and the connectors are plugged well. Continue following the flow-chart if the problem still exists.
Unplug one of the heaters connectors and measure the heater resistance. Is it about 20-30 Ohms?
No
Change the heater
Yes
Change the electronic card.


No Draining
Select Pump program and start the program.
Is the pump active? (can be understanded by touching the filter cover)
Yes
* Check and Clean the pump filter
* Drain hose level should be between 0,5 and 1 meter from the floor
* Check the drain hose , it ishould not be banded or broken
No
Is the machine filling water?
Yes
If the water temperature in the tub is higher than 50C, the machine makes water filling to decrease this temperature. If the "no draining" problem still exists after water filling, check the NTC resistance value.
No
Can you measure 230 V AC voltage between pump teminals? Also check J3 connector PUMP-NEUTRAL voltage. Is it 230V AC ?
Yes
Pump motor windings are open circuit, change the pump.
No
Check the wiring and connections between the electronic card and wires. Fix if you see any disconnections. If you don't see any problem at the wiring and the connections, change the electronic card group.


W/M does not make spinning.
Does it make washing?
No
See the details in Nowash algorithm.
Yes
Does the W/M skip spinning and go to draining stage?
No
W/M may have detected unbalanced load. It will try to go to spinning after dissolving the load.
Yes
FOAM detection.


WM is spinning at a washing step.
If the motor triac is short-circuit, motor will make 2 take-off trials at spinning step; and pauses 40 sec between these trials. After these 2 trials the water in the tub will be discharged by draining.
Un plug the J6 connector and measure the tacho resistance. Is it open circuit?
Yes
Change the motor. (In tacho open circuit condition; WM makes 8 trials and pauses 120 seconds between each trial. The machine returns to the selection mode if the tacho resistance is not normal after these trials.
No
Check the wiring and connections between the electronic card and J6 connector. Keep following the flow-chart if the problem still exists.
Connect a voltmeter (AC) to J6 (Tacho) connector on electronic card and rotate the drum manually. When the drum is rotating, a voltage value related to the rotation speed must be seen on the voltmeter and this walue must be 0V(AC) when the drum is stopped.
Are your measurements as expected above?
Yes
Change the electronic card.
No
Change the motor


Program follower LED blinking
Is "Ready" Led blinking?
Yes
Check if the program selector is in a position between two programs. If the blinking of Ready continues even if you have seen that the selector is not in between any adjacent positions, change the control card group.
No
Is "Washing" Led blinking?
Yes
See no water filling flow-chart

THE ERROR CODES WHICH CAN BE OBSERVED AT FUNCTIONAL TEST AND FAILURE CODE OBSERVING MODES

H1 : NTC OPEN OR SHORT CIRCUIT	(100)
H2 : HEATER OPEN CIRCUIT	(010)
H3 : HEATER ALWAYS ON	(110)
H4 : VALVE TRIAC SHORT CIRCUIT	(001)
H5 : PUMP OPEN OR SHORT CIRCUIT	(101)
H6 : MOTOR TRIAC SHORT CIRCUIT	(011)
H7 : WATER LEVEL SENSOR FAILURE	(111)

PS : THE ERROR CODES GIVEN ABOVE DOES NOT ALWAYS MEAN REASON FOR THE FAILURE IS THE DEFINED COMPONENT
ALWAYS CHECK THE CONNECTORS AND WIRING FIRST TO SEE IF THE CAUSE OF THE FAILURE IS A DISCONNECTION OR SOMETHING SIMILAR.

FAILURE CODE OBSERVING MODE

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Deletion of the error code:
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JUMP Functional Test Program

Entrance to the test mode:

1. Turn off the machine from On/Off Button
2. Turn on the W/M from the main switch, while pressing “start/pause/cancel” button. Start icon will start to blink within 3 seconds. At the moment, you can see the code of failure in follower LEDs
3. After seeing the failure, erase the failure by pressing start/pause/cancel button 3 seconds without losing any time
4. After erasing the failure code, you will be in functional test mode. Each push to the start / pause / cancel button will represent one function.

Functional Test Sequence:

For Softwares Before “Jump_40A_48A”

1. All LEDs on the board will start to blink after the door is locked.
2.For the softwares before 32A, 3-6-9 time delay leds will be on in different combinations , related to the spin potantiometer position.(For max spin 3-9 leds will be on , for no spin no led will be on)
For 32A and following softwares , 1 and 2 auxilary function leds will be on in 4 different combinations, related to the spin potantiometer position.
3. Take in water from pre-wash compartment
4. Take in water from main wash compartment
5. Take in water from softener compartment (Both PW and MW valves are active)
6. Take in water from main wash compartment if the W/M has a hot valve option (If not this step will be skipped)
7. The heater will be ON. If the water level inside the tub is not enough for the heater to switch on then all valves will be turn on to fill the level.
8. Clockwise motor rotation with 52 rpm
9. Counterclockwise motor rotation with 52 rpm
10. Draining and after draining is finished spinning up to maximum speed.
11. Turn on all the valves to fill a certain level in a short time for water leakage test on the production line.
12. End
13. You can get off the test mode by turning the WM off.

For Softwares After “Jump_40A_48A” (Also for all machines with “Compact” oscillating system)

1. All LEDs on the board will start to blink after the door is locked.
2. First and Second auxilary function leds will be on in 4 different combinations, related to the spin potantiometer position.
3. Clockwise motor rotation with 52 rpm
4. Counterclockwise motor rotation with 52 rpm
5. Spinning up to maximum speed.
6. Take in water from pre-wash compartment
7. Take in water from main wash compartment
8. Take in water from softener compartment (Both PW and MW valves are active)
9. Take in water from main wash compartment if the W/M has a hot valve option (If not this step will be skipped)
10. The heater will be ON while there is Clockwise motor rotation with 52 rpm. If the water level inside the tub is not enough for the heater to switch on then all valves will be turn on to fill the level.
11. Draining
12. End
13. You can get off the test mode by turning the WM off.