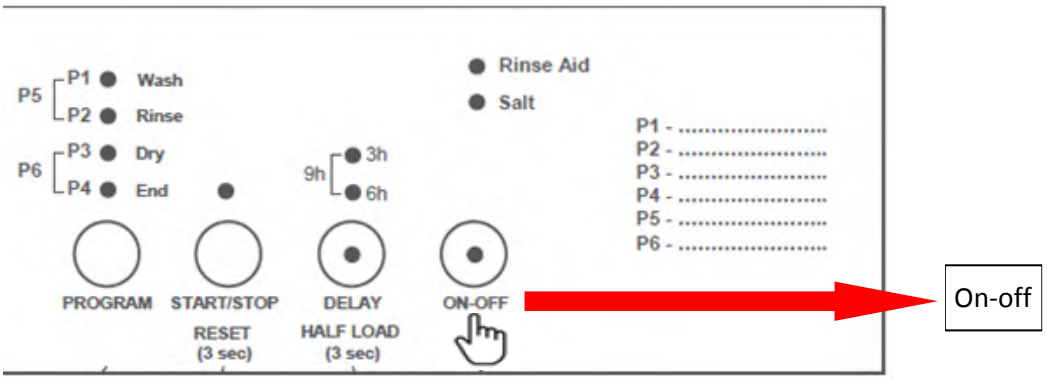
SOGEDIS ELECTROMENAGER	SERVICE MANUAL	
	Y SERIES	

Y SERIES (WITHOUT ON-OFF BUTTON AND KNOB) WITH AND WITHOUT DISPLAY PRODUCTS

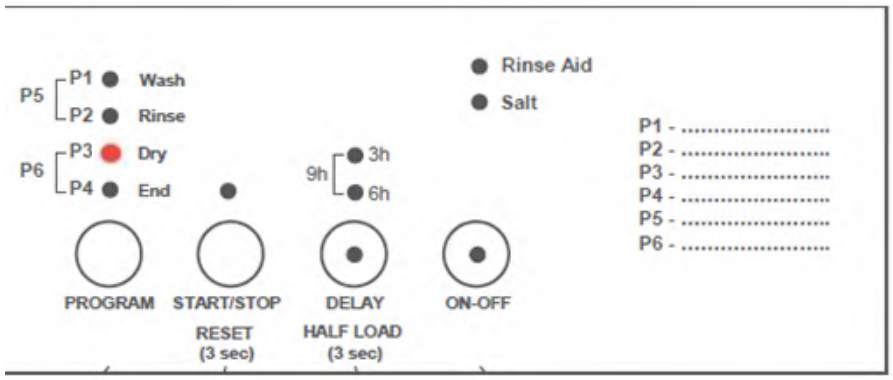
PROGRAM CANCELLATION OF Y SERIES

1) The machine must be open position to do the cancellation process.

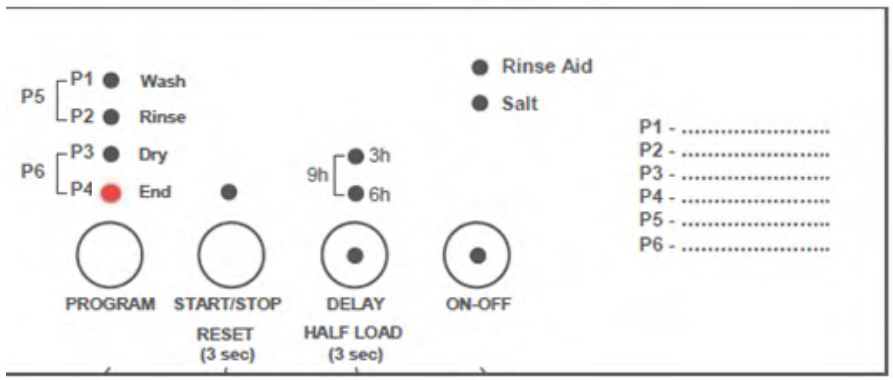
2) Push the Start/Pause button for 3 sec. while the machine is operating.



3) After 3 sec, the drying light lights up and then it starts draining by the drain pump operates. (Approximately 30 sec)

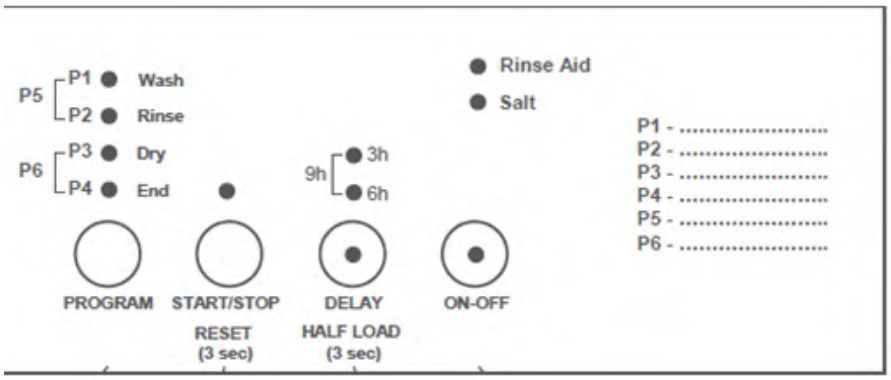


4) After the end of draining operation, the draining pump stops and the End light lights up.

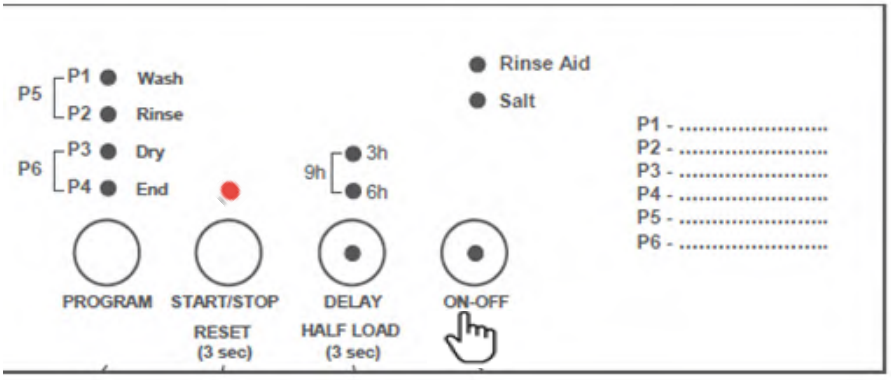


ON-OFF OPERATION FOR Y SERIES

1) The machine is closed while the on/off button is on the closed position. All of the buttons don't operate. The lights don't light up. Only the electronic card has energy.



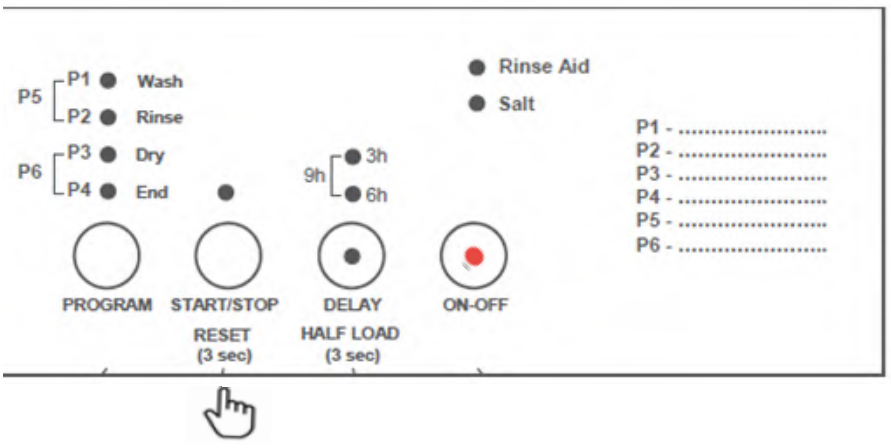
2) The machine will be opened when the on/off button is on. On/Off light lights up. If machine has no display, also Start/Stop and Eco program lights turn on.



THE SERVICE TEST OF Y SERIES

1) Power OFF; press Start/Stop button.

2) Power ON by pressing On/Off button and continue to press Start/Stop button at least for 6".



3) When “Service test” is recognized

- For models w/o display: All leds are ON. Next, Start/Stop led blinks and service test starts.
- For models w/ display: All leds are ON, SP is visualized on display and service test starts.

4) During the first 6” of test, if a failure code is stored in memory, its codification blinks. Also at the end of the test if an error occurs its error code blinks.

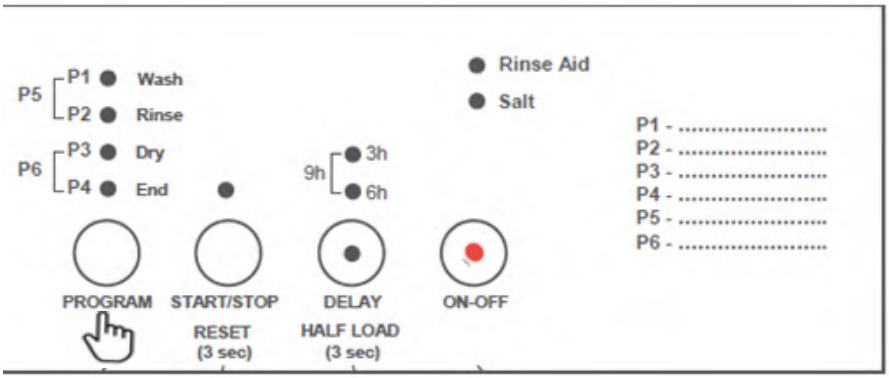
Note: Service program can be cancelled with cancellation operation.

SALT SETTING OF Y SERIES

For models w/o display;

1) Power OFF; press program button.

2) Power ON and continue to press program button at least for 3”.



3) If “Hardness set” is recognized all leds blink for 2”.

4) Release program button. The last setting level is viewed*.

5) Press program button to set the desired level.

At any pressure of program button hardness level is incremented. Hardness level 1 returns after hardness level 6.

* If it is the first hardness set, hardness level is level 3.

Level	Wash	Rinse	Dry	End
1	ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
3	OFF	OFF	ON	OFF
4	OFF	OFF	OFF	ON
5	ON	OFF	OFF	ON
6	OFF	ON	OFF	ON

For models w/ display;

1) Power OFF; press program button.

2) Power ON and continue to press program button at least for 3".

3) If "Hardness set" is recognized "SL" is shown for 2".

4) Release program button. The last setting level is viewed*.

5) Press program button to set the desired level. At any pressure of program button hardness level is incremented. Hardness level 1 returns after hardness level 6.

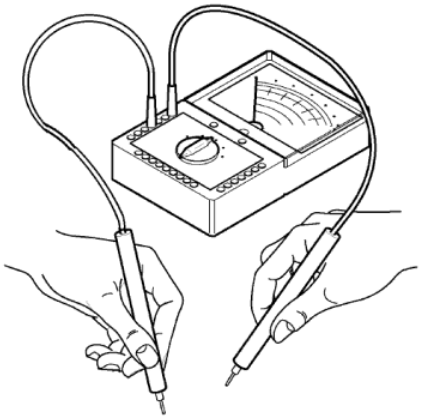
* If it is the first hardness set, hardness level is L3.

Level	Display
1	L1
2	L2
3	L3
4	L4
5	L5
6	L6

Note:The machine is came to the closed position to exit from the water hardness setting and to get in memory the last setting.

REPAIR TECHNIQUES

A simpler and special control ***procedure*** is obtained to test the components efficiency.



In this control procedure, you can measure the resistance of the components and compare with the normal resistance values. Then you can understand that if the components are faulty or not.

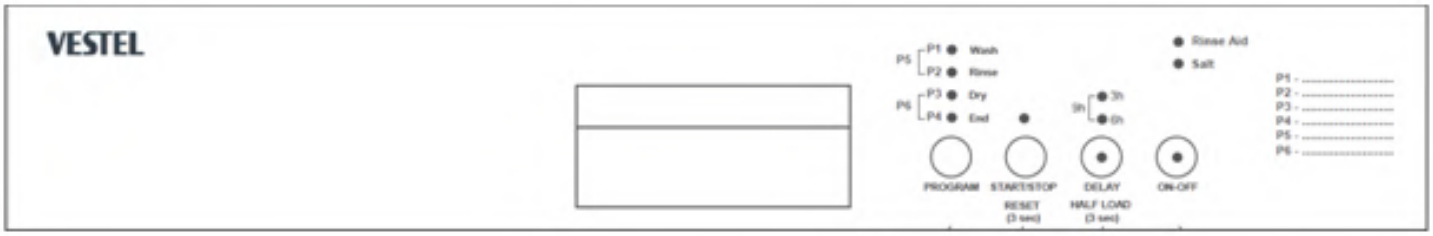
You can measure the components directly or you can measure from the connectors with the probes of the measurement gauge.

COMPONENTS	REAL VALUES	NOTES
ON / OFF BUTTON	0 Ω on component	ON/OFF button is pressed
DOOR SWITCH	CN2.9 – CN2.2 0 Ω	Door is closed
PRESSURE SWITCH	CN2.10 – CN2.2 0 Ω ∞ Ω	FULL FILL WATER NO WATER
DRAIN PUMP	CN2.2 – CN2.4 141± %10MΩ	
WATER INLET VALVE	CN2.6 – CN 2.9 4200 ±٪10 Ω	
REGENERATION VALVE	CN2.10 – CN2.7 4130±٪10 Ω	
HEATER	27.6-30.6 Ω	MEASURE JUST ON THE COMPONENT
DETERGENT DISPENSER	1660 Ω ± %10 (25 C °)	MEASURE JUST ON THE COMPONENT
CIRCULATION PUMP	CN2.3 – CN2.9 118.2 - 135.9 117.9 - 135.6	Primary winding Secondary winding (FROM THE COMPONENT)

SET NTC SENSOR	CN 3.2 25°- 5000Ω %±5.0 CN 3.1 35°- 3300Ω %±5.5 55°- 1520Ω %±6.5 63°- 1174Ω %±7.5 80°- 670Ω %±8.0 90°- 488Ω %±8.5	
FLOATER (MICROSWITCH)	CN2.1 – CN 2.5 0 Ω CN2.1 – CN 2.4 ∞ Ω	MICROSWITICH IS INACT VE (NO WATER) MICROSWITCH IS ACTIVE (THERE IS WATER)

FAILURE CODES

PRODUCTS WITHOUT DISPLAY



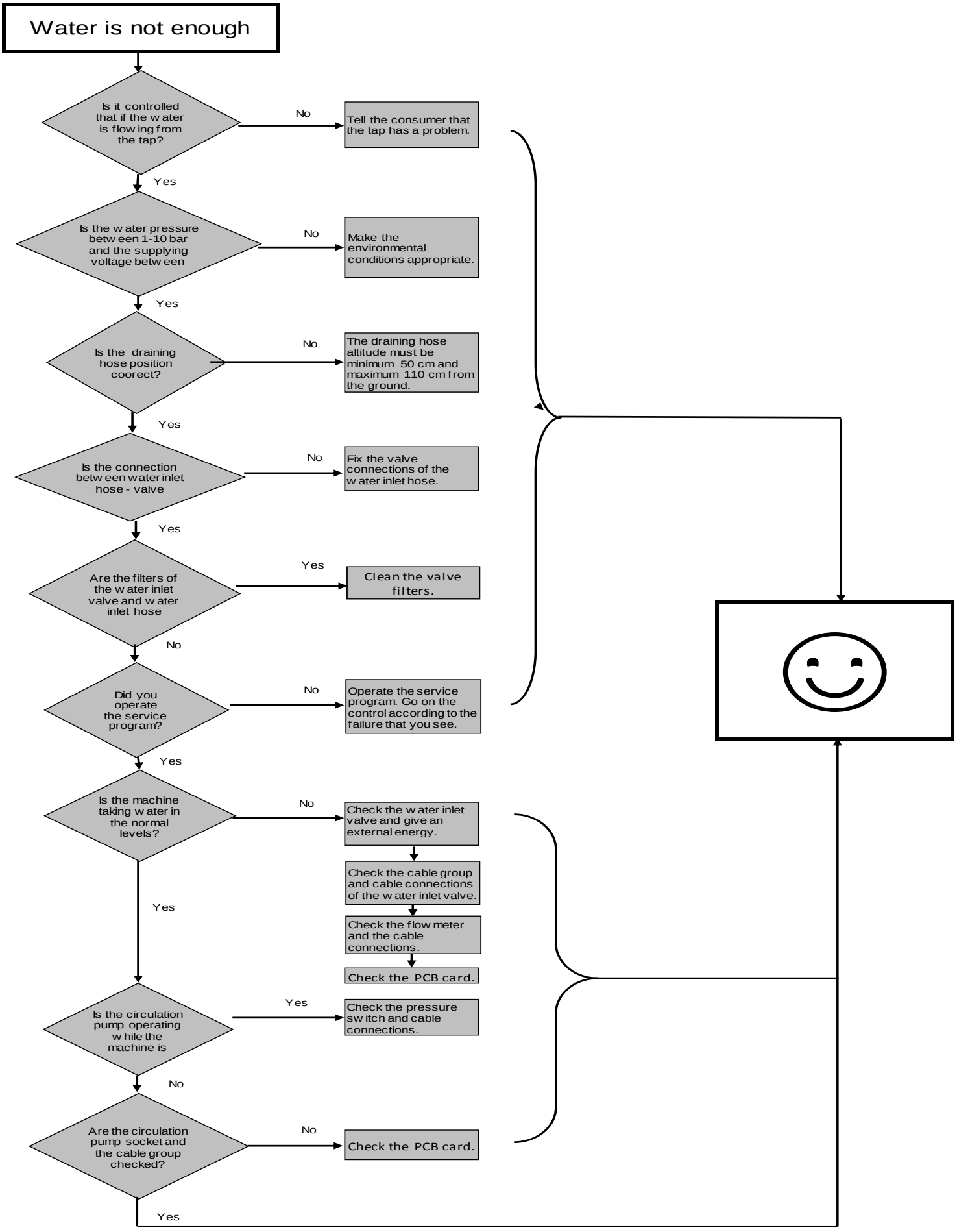
N°	Name	Start/Stop	Wash	Rinse	Dry	End
1	Door open	Blink	-	-	-	-
2	Delay before Door closing	-	-	-	-	-
3	Overflow	-	-	-	-	-
	Leakage	-	-	Blink	Blink	-
4	Drain time out	-	-	-	Blink	Blink
5	Re-Fill time out	Blink	-	-	-	-
6	Presence Flow meter impulses	-	-	Blink	-	Blink
7	Absence Flow meter imp. With Full	-	-	-	-	-
	Absence Flow meter imp. Without Full	-	-	Blink	-	-
8	NTC ca/cc	-	Blink	-	-	Blink
9	Overheating	-	Blink	-	Blink	-
10	Unsuccessful heating	-	Blink	-	Blink	Blink
11	CK Parameters	-	Blink	Blink	Blink	Blink
12	High voltage	-	Blink	Blink	-	Blink
13	Low voltage	-	Blink	Blink	-	-

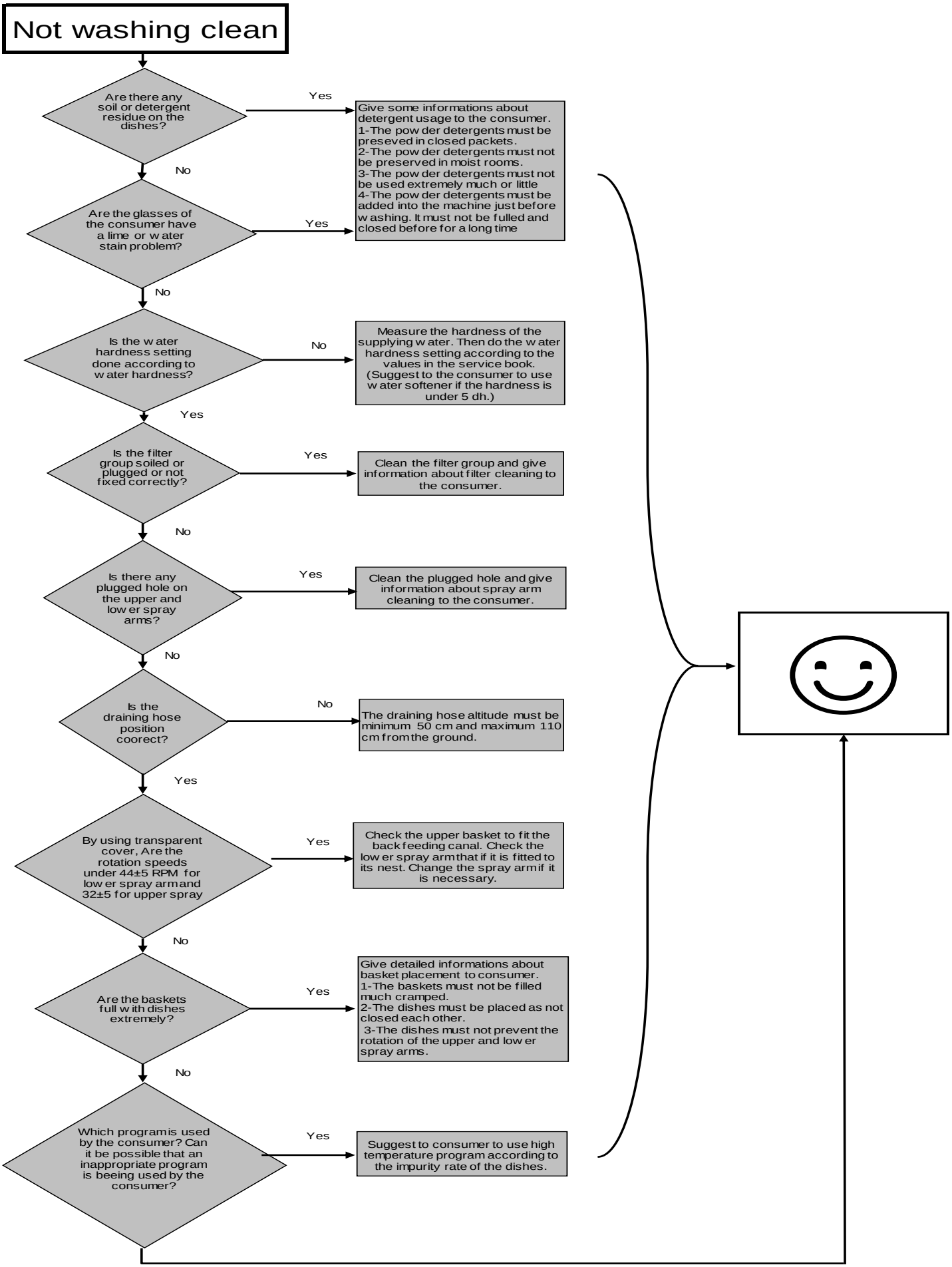
PRODUCTS WITHOUT DISPLAY

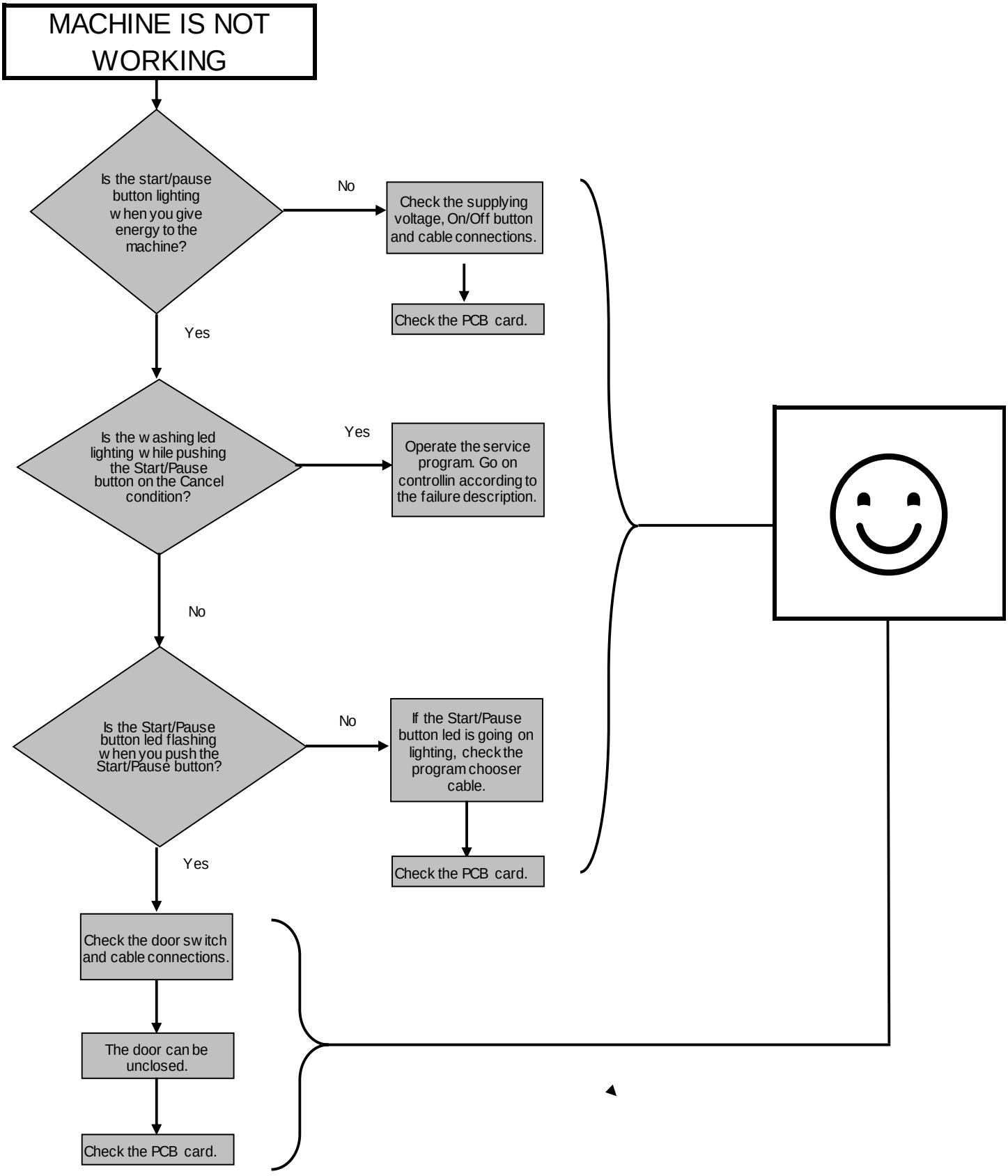
W/O DIVERTER(Y1A, Y1B, Y1C,Y1D, Y1E, Y1F)

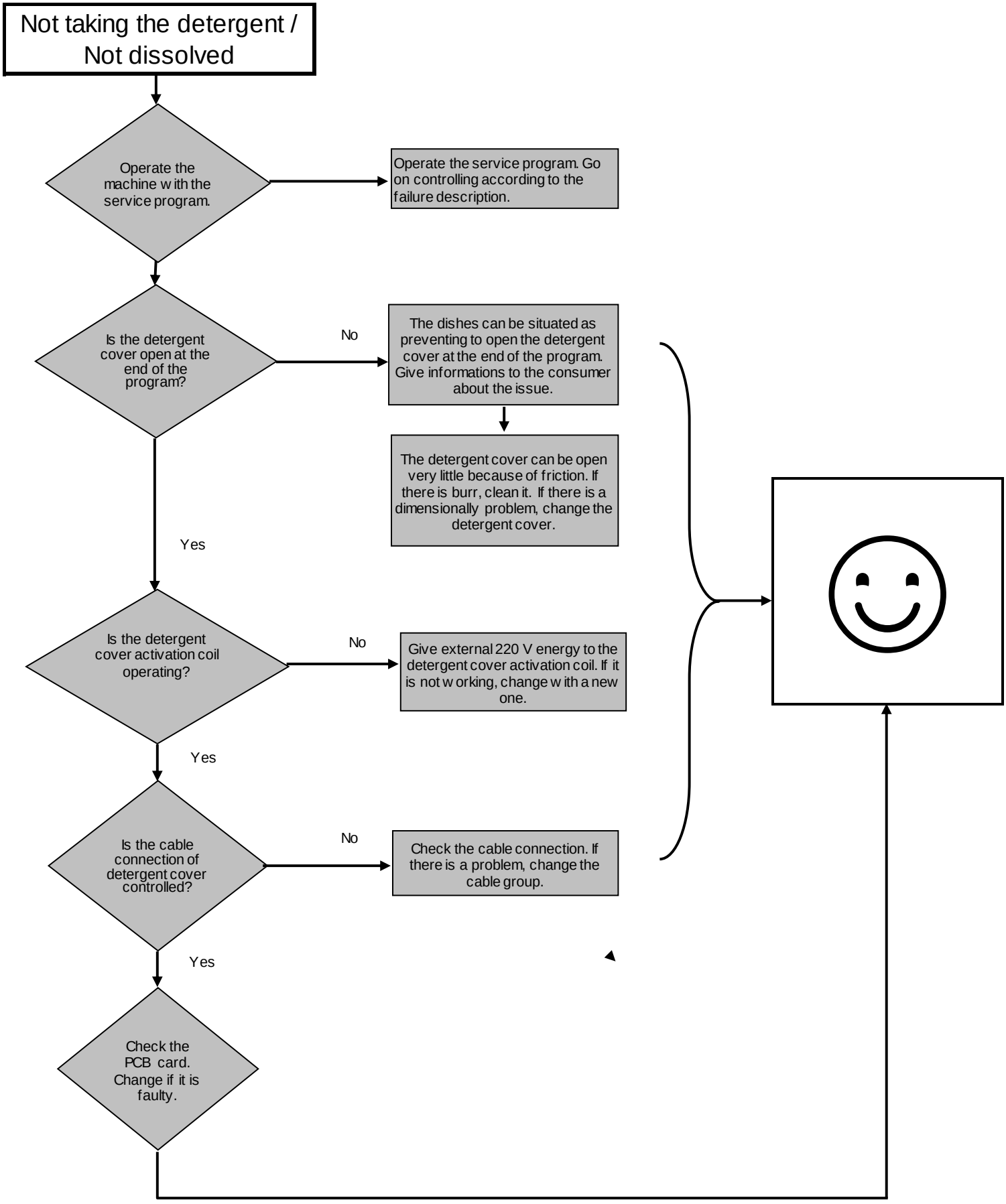
W/ DIVERTER(Y21, Y22, Y23,Y24)

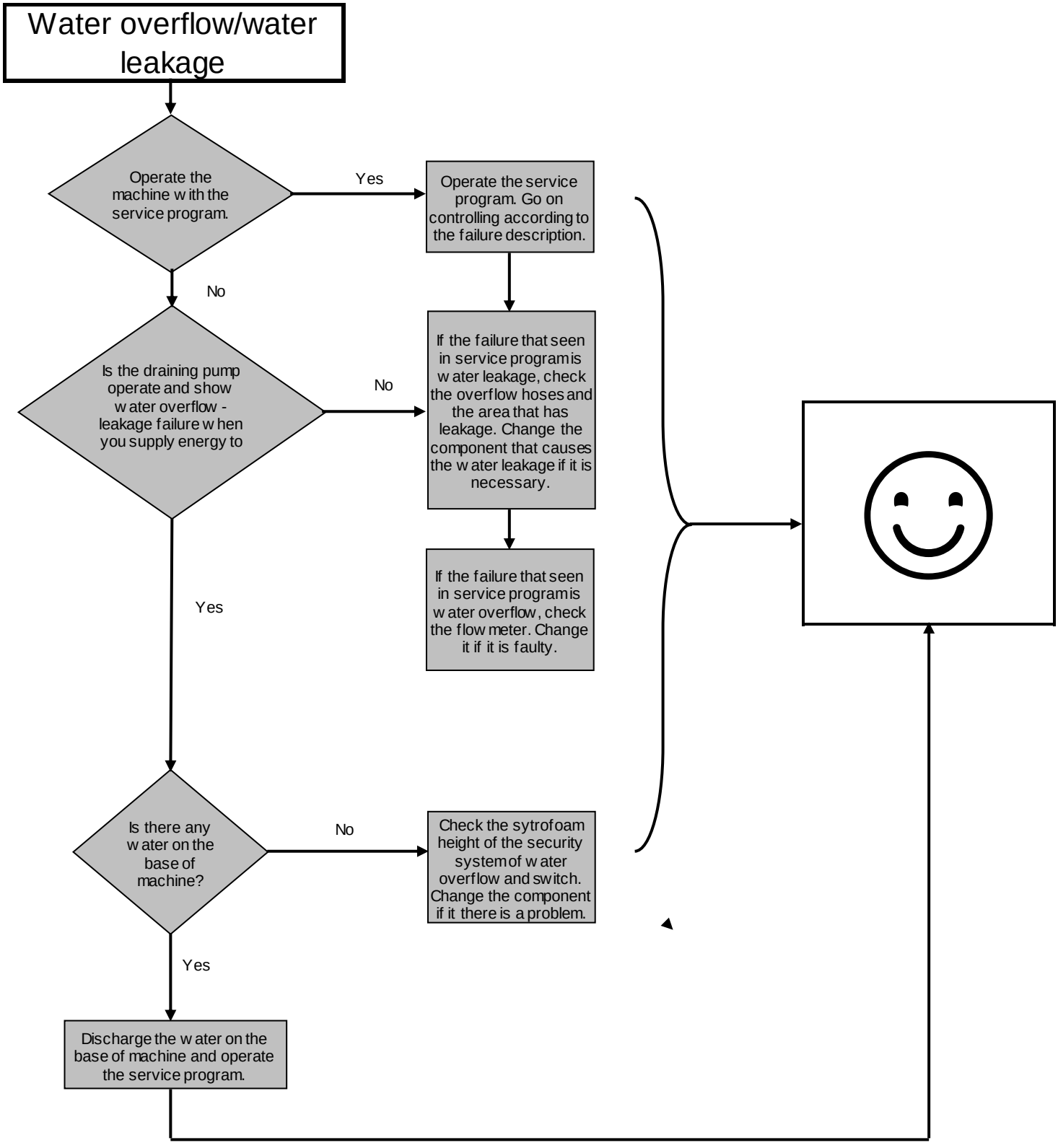
Name	DISPLAY	Notes
Overflow	F0	In the normal work this failure is not visualized.
Leakage	F1	
Draining time out	F2	
Presence of Flow meter impulses	F3	
Absence of Flow meter	F4	In the normal work this failure is not visualized.
Empty Level	F5	
Re-Fill time out	F5	
NTC ca/cc	F6	
Overheating	F7	
Unsuccessful heating	F8	
Diverter opened	F9	
Turbidity Sensor	FA	In the normal work this failure is not visualized.
Parameter set salt incorrect	SE	In the normal work this failure is not visualized.
CK Parameter	FE	
High Voltage	HI	In the normal work this failure is not visualized.
Low Voltage	LO	In the normal work this failure is not visualized.


Water is not enough
Is it controlled that if the water is flowing from the tap?
No
Tell the consumer that the tap has a problem.
Yes
Is the water pressure between 1-10 bar and the supplying voltage between
No
Make the environmental conditions appropriate.
Yes
Is the draining hose position coorect?
No
The draining hose altitude must be minimum 50 cm and maximum 110 cm from the ground.
Yes
Is the connection between water inlet hose - valve
No
Fix the valve connections of the water inlet hose.
Yes
Are the filters of the water inlet valve and water inlet hose
Yes
Clean the valve filters.
No
Did you operate the service program?
No
Operate the service program. Go on the control according to the failure that you see.
Yes
Is the machine taking water in the normal levels?
No
Check the water inlet valve and give an external energy.
Check the cable group and cable connections of the water inlet valve.
Check the flow meter and the cable connections.
Check the PCB card.
Yes
Is the circulation pump operating while the machine is
Yes
Check the pressure switch and cable connections.
No
Are the circulation pump socket and the cable group checked?
No
Check the PCB card.
Yes


Not washing clean
Are there any soil or detergent residue on the dishes?
Yes
Give some informations about detergent usage to the consumer. 1-The pow der detergents must be preseved in closed packets. 2-The pow der detergents must not be preserved in moist rooms. 3-The pow der detergents must not be used extremely much or little 4-The pow der detergents must be added into the machine just before w ashing. It must not be fulled and closed before for a long time
No
Are the glasses of the consumer have a lime or w ater stain problem?
Yes
No
Is the w ater hardness setting done according to w ater hardness?
No
Measure the hardness of the supplying w ater. Then do the w ater hardness setting according to the values in the service book. (Suggest to the consumer to use w ater softener if the hardness is under 5 dh.)
Yes
Is the filter group soiled or plugged or not fixed correctly?
Yes
Clean the filter group and give information about filter cleaning to the consumer.
No
Is there any plugged hole on the upper and low er spray arms?
Yes
Clean the plugged hole and give information about spray arm cleaning to the consumer.
No
Is the draining hose position coorect?
No
The draining hose altitude must be minimum 50 cm and maximum 110 cm from the ground.
Yes
By using transparent cover, Are the rotation speeds under 44±5 RPM for low er spray arm and 32±5 for upper spray
Yes
Check the upper basket to fit the back feeding canal. Check the low er spray arm that if it is fitted to its nest. Change the spray arm if it is necessary.
No
Are the baskets full w ith dishes extremely?
Yes
Give detailed informations about basket placement to consumer. 1-The baskets must not be filled much cramped. 2-The dishes must be placed as not closed each other. 3-The dishes must not prevent the rotation of the upper and low er spray arms.
No
Which program is used by the consumer? Can it be possible that an inappropriate program is beeing used by the consumer?
Yes
Suggest to consumer to use high temperature program according to the impurity rate of the dishes.


MACHINE IS NOT WORKING
Is the start/pause button lighting when you give energy to the machine?
No
Check the supplying voltage, On/Off button and cable connections.
Check the PCB card.
Yes
Is the washing led lighting while pushing the Start/Pause button on the Cancel condition?
Yes
Operate the service program. Go on controllin according to the failure description.
No
Is the Start/Pause button led flashing when you push the Start/Pause button?
No
If the Start/Pause button led is going on lighting, check the program chooser cable.
Check the PCB card.
Yes
Check the door switch and cable connections.
The door can be unclosed.
Check the PCB card.


Not taking the detergent / Not dissolved
Operate the machine w ith the service program.
Operate the service program. Go on controlling according to the failure description.
Is the detergent cover open at the end of the program?
No
The dishes can be situated as preventing to open the detergent cover at the end of the program. Give informations to the consumer about the issue.
The detergent cover can be open very little because of friction. If there is burr, clean it. If there is a dimensionally problem, change the detergent cover.
Yes
Is the detergent cover activation coil operating?
No
Give external 220 V energy to the detergent cover activation coil. If it is not w orking, change w ith a new one.
Yes
Is the cable connection of detergent cover controlled?
No
Check the cable connection. If there is a problem, change the cable group.
Yes
Check the PCB card. Change if it is faulty.


Water overflow/water leakage
Operate the machine with the service program.
Yes
Operate the service program. Go on controlling according to the failure description.
No
Is the draining pump operate and show water overflow - leakage failure when you supply energy to
No
If the failure that seen in service program is water leakage, check the overflow hoses and the area that has leakage. Change the component that causes the water leakage if it is necessary.
If the failure that seen in service program is water overflow, check the flow meter. Change it if it is faulty.
Yes
Is there any water on the base of machine?
No
Check the sytrofoam height of the security system of water overflow and switch. Change the component if it there is a problem.
Yes
Discharge the water on the base of machine and operate the service program.