VEGETABLE WASHER LVA100





EDITION	DESCRIPTION	DATE
1	SM creation	01/03/2025
2	Spring cover replacement chapter added	15/10/2025

Document made by R&D – Aubusson (France)

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The manual must always be part of the documentation available when servicing the appliance.

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ELECTRONIC BOARD

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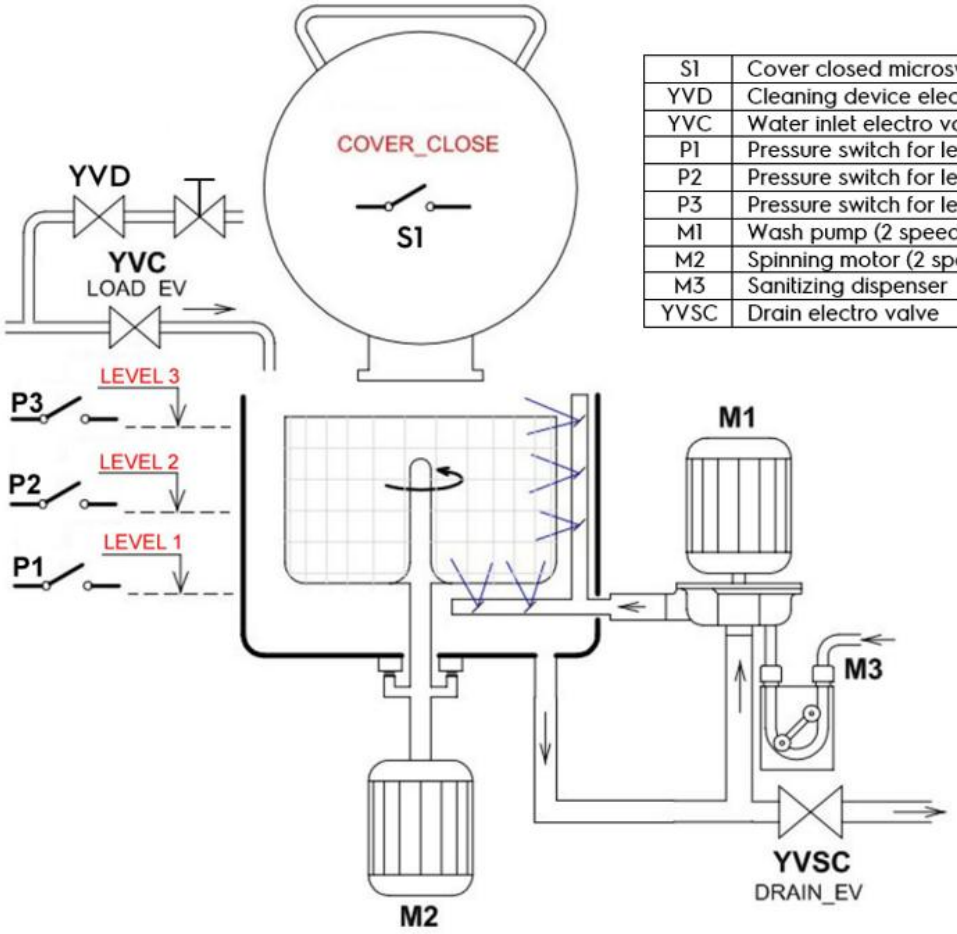
APPLIANCE



S1	Cover closed microswitch
YVD	Cleaning device electro valve
YVC	Water inlet electro valve
P1	Pressure switch for level 1
P2	Pressure switch for level 2
P3	Pressure switch for level 3
M1	Wash pump (2 speeds)
M2	Spinning motor (2 speeds)
M3	Sanitizing dispenser
YVSC	Drain electro valve

Appliance consists of a tank with a spinning basket that contains vegetables to be washed.

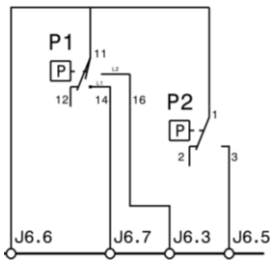
Washing effect is obtained by combining basket rotation and water turbulence generated by a pump.
Two turbulence levels are possible: soft for light vegetables, strong for hard wash.

Tank can be filled at three different levels: lower is used to perform a spray wash, intermediate for combination between spray and immersion, higher for a complete immersion wash.

L1 = 60, L2 = 110, L3 = 290

P1
Pin 12 → Less than 20mm
Pin 14 → 60mm
Pin 16 → 110 mm

P2
Pin 1 → less than 200mm
Pin 3 → 290mm



Basket has two speeds: lower is used in normal wash, higher is used to have a centrifugal effect.

A solenoid valve is used to automatically empty tank.

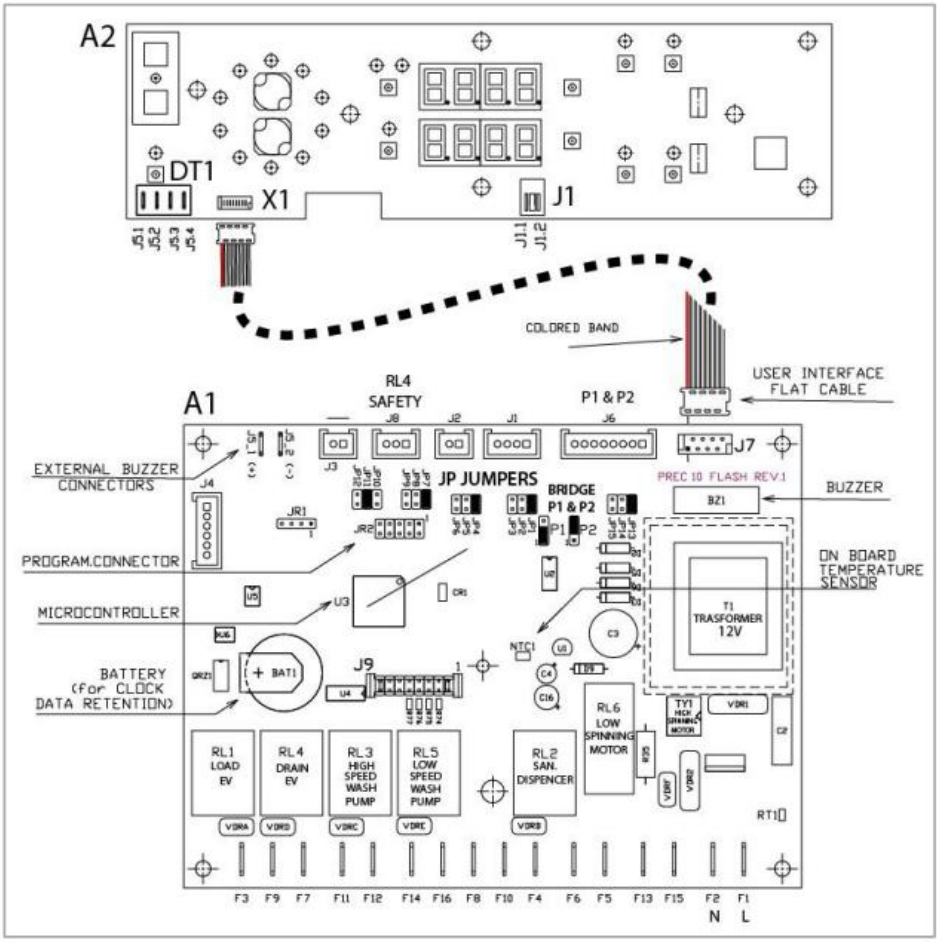
A peristaltic dispenser is used to add sanitizing during wash.

Washing cycles are allowed only if cover is closed.

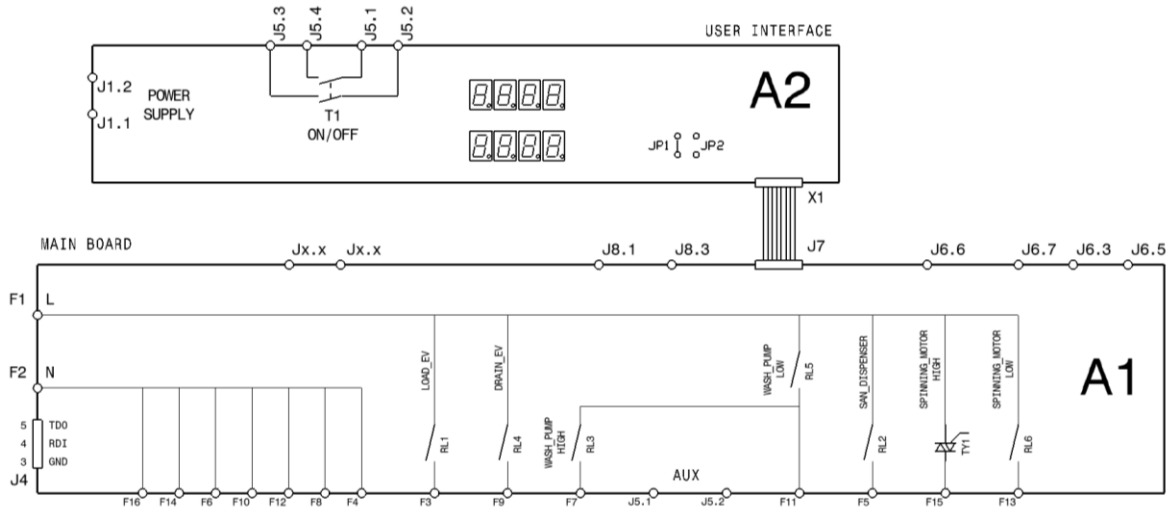
HARDWARE

Main/Power Board: PREC10

User Interface: Blast Chillers Zanussi



INPUT/OUTPUT



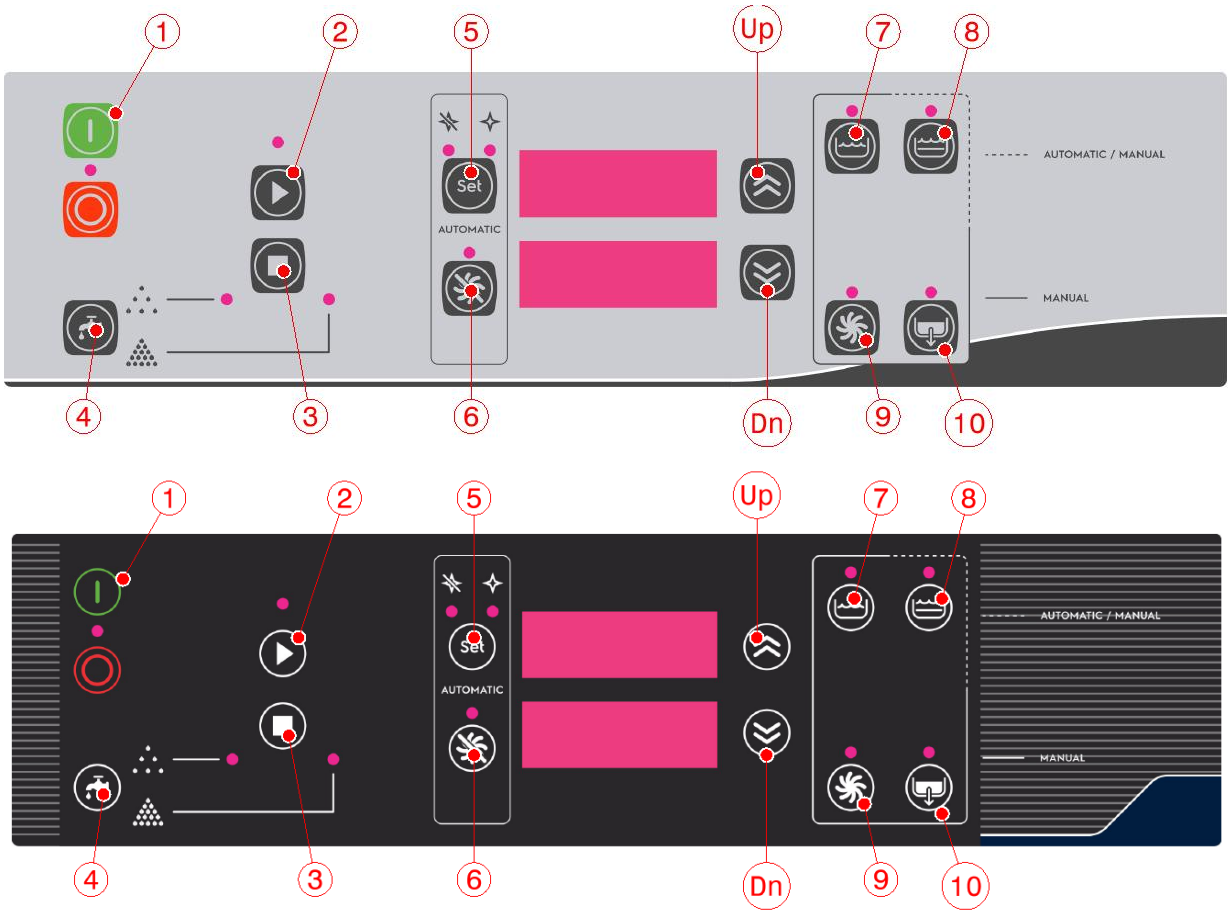
OUTPUTs involved:

Description	TYPE	Ref.	Var.
M1 – Wash Pump: Low SPEED	DIG_OUT	RL5	WASH_PUMP_LOW
M1 – Wash Pump: High SPEED	DIG_OUT	RL3	WASH_PUMP_HIGH
M2 – Basket Motor: Low SPEED	DIG_OUT	RL6	SPINNING_MOTOR_LOW
M2 – Basket Motor: Centrifugal SPEED	DIG_OUT	TY1	SPINNING_MOTOR_HIGH
M3 – Sanitizing Dispenser	DIG_OUT	RL2	SAN_DISPENSER
YVC - Load Solenoid Valve	DIG_OUT	RL1	LOAD_EV
YVSC - Drain Solenoid Valve	DIG_OUT	RL4	DRAIN_EV
M2 – Basket Motor: Low SPEED counterclockwise	DIG_OUT	AUX (open collector) J5.1-J5.2	

INPUTSs involved:

Description	TYPE	Ref.	Var.
P1 – Pressure switch (Level 1)	DIG_IN	J6.6-J6.7	LEVEL_1
P1 – Pressure switch (Level 2)	DIG_IN	J6.6-J6.3	LEVEL_2
P2 – Pressure switch (Level 3)	DIG_IN	J6.6-J6.5	LEVEL_3
Cover Closed Microswitch	DIG_IN	J8.1-J8.3	COVER_CLOSE

USER INTERFACE



1) ON-OFF SWITCH: Switch on/off appliance.

2) START KEY: Start washing cycle. (P3, LD3)

3) STOP KEY: Stop washing cycle. (P3, LD3)

4) WASH PUMP SPEED SELECTOR: High speed or low speed. (P4, LD9=low, LD7=high)

5) CYCLE SELECTOR: Select Automatic Cycles and enable/disable sanitizing phase. (P5, LD13, LD14)

6) EXCLUSION CENTRIFUGAL KEY: If pressed centrifugal phase is by-passed (only for Automatic Cycles). (P6)

⬆ ⬇ UP – DOWN KEYS: Used to select Automatic Cycle (or in setting mode to change parameters value). (P7, P8)

7) MANUAL WASH

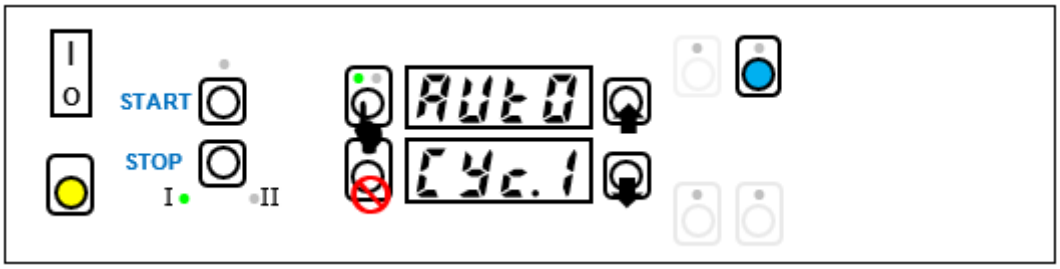
8) IMMERSION LEVEL SELECTION:

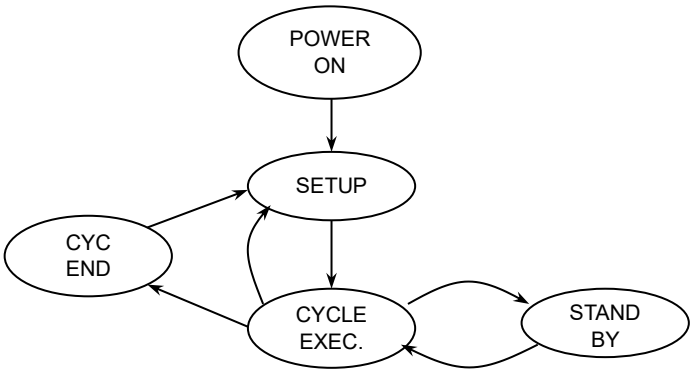
Only the cycle 3 and manual washing uses the level according to the button 8 selection (level 2 or 3). Cycle 1 and 2 uses only level 1. (P9, LD16)

9) MANUAL CENTRIFUGAL PHASE (P10, LD17)

10) MANUAL DRAIN (P12, LD19)

AUTOMATIC CYCLES





POWER ON

Switch on the appliance. After lamp test the default status is Automatic Cycles:

- I • or •II led is on (high or low speed);
- Automatic cycle led is on (the left one above the ☝ key);
- Display shows selected cycle (i.e. CYc.1);

SELECTIONS (SETUP):

- CYCLE SELECTOR key ☝ : press to select automatic cycles with sanitizing phase (right led on) press again (toggle function) to avoid sanitizing phase (left led on).
- With keys ⬆ ⬇ choose cycle number: CYc.1, CYc.2, CYc.3, CYc.4;(cycle 4 is cleaning cycle)
- Use key ⃠ to avoid centrifugal phase (toggle function): corresponding key led indicates that centrifuge will not be performed.
- Select WASH PUMP SPEED • (toggle function), swap between I • and •II led.
- Select Level 2 or Level 3 • (toggle function); if led is ON ➔ total immersion (L3). This option is only available for Cyc.3 and manual washing

START WASHING CYCLE

Press **START** key to begin washing cycle according to selections made. Corresponding key led is on. Washing cycle can starts only if cover is close.
During washing execution press keys ☝, ⬆ or ⬇ has no effect but WASH PUMP SPEED can be swapped between I • and •II led and key ⃠ to avoid centrifugal is also available.
Press **STOP** key again to stop cycle and go back to SETUP status.
If cover is opened during cycle execution, the cycle stops (STAND-BY status) and continues when cover is being closed again.

CYCLE END

When cycle finishes, START led is blinking and upper display shows End.
Three beeps indicate end.
When cover is opened the appliance go back to SETUP status.

CYCLE TIMING

A cycle is a sequence of phases (refer to Appendix A-2 and A-3 for cycle diagram).

Two kinds of phases exist:

- *TIME DEPENDENT* (WASH, SPIN, SPRAY_WASH) where duration is stored in EEPROM parameter (modifiable by entering into a factory modality into a range 0-250 sec, step 1 sec)
- *WATER LEVEL DEPENDENT* (FILL, DRAIN) where duration depends on filling/draining time.

The phases are:

- WASH — Time dependent phase. SPINNING_MOTOR (low speed) starts work and after a delay d1, also WASH_PUMP starts (according to selected speed). Delay d1 (0-5 sec) is the same for all cycles.
- SPIN — Time dependent phase. SPINNING_MOTOR (low speed) starts work and after a delay d3, is switched to high speed.
  DRAIN_EV is on during this phase. This phase is skipped if CENTRIFUGAL EXCLUSION KEY is pressed.
- SPIN_NO_DRAIN — Time dependent phase. SPINNING_MOTOR (low speed) starts work and after a delay d3, is switched to high speed.
  DRAIN_EV is NOT activated during this phase. This phase is skipped if CENTRIFUGAL EXCLUSION KEY is pressed.

- FILL_L1 — Level dependent phase. Fill tub. LOAD_EV is activated until LEVEL_1 is reached.
- FILL_L2 — Level dependent phase. Fill tub. LOAD_EV is activated until LEVEL_2 (or LEVEL_3) is reached.
- DRAIN — Level dependent phase. Empty tub. Active DRAIN_EV until LEVEL_1 is reached, then DRAIN_EV stays ON for d2 seconds to ensure completely empty tub.

- SANITIZING — Time dependent phase. If sanitizing cycle selected, sanitizing dispenser is activated for a time specified by a parameter (0-250 sec). This phase starts 1' after cycle starts.
  Settings has been defined to obtain a concentration of chemical = 2 ml / L

A cycle is obtained by composing these phases.

Delay **d1** (0-10 sec) is the same for all cycles. In our case it is fixed at 0 sec

CYCLES DESCRIPTION

CYCLE I

	PHASE	PHASE CODE	DESCRIPTION	PARAMETER	VALUE
1.	**REMPLISSAGE**	FILL_L1	**Level dependent phase.** When pressing start key, cycle begin with this phase. LOAD_EV is activated until LEVEL_1 is reached (P1 switch closed). SPINNING MOTOR (LOW SPEED) → (LA_1, PAU1, CLA1, PAU1, … again until the level is reached) When LEVEL_1 is reached, the cycle will achieve engaged (LA_1, PAU1, CLA1, PAU1) sequence. If sanitizing cycle selected, M3 is activated (after 1' of filling) for a time specified by a parameter sA_1. If tub is yet full (P1 switch is closed) when pressing start key, FILL_L1 is skipped, and cycle jump to the next phase. (Sanitizing phase, if present, is activated (after 1' of filling), and the sA_1 value is **divided by 2** (Because the next cycle will have to much sanitizer)	*LA_1* *PAU1* *CLA1* *SA_1*	40 (0-250 sec) 2 (0-10 sec) 40 (0-250 sec) *60* (0-250 sec)
2.	**LAVAGE**	WASH	**Time dependent phase** SPINNING MOTOR (LOW SPEED) → LA_1, PAU1, CLA1, PAU1) WASH_PUMP starts (according to selected speed) in same time as SPINNING_MOTOR. (set d1 = 0) Total time for washing is 3x LA_1, PAU1, CLA1, PAU1) If tank is already at level P1: Total time for washing is 5x (LA_1, PAU1, CLA1, PAU1)	*LA_1* *PAU1* *CLA1*	*40* (0-250 sec) *2* (0-10 sec) *40* (0-250 sec)
3.	**VIDANGE**	DRAIN	**Level dependent phase.** Empty tub. Active DRAIN_EV until LEVEL_1 is released. When LEVEL_1 is released (P1 switch OFF), disable DRAIN_EV and rinsing phase begins		
4	**RINCAGE**	RINSING	**Level dependent phase.** LOAD_EV and SPINNING MOTOR (LOW SPEED) is activated until LEVEL_1 is reached. If CENTRIFUGAL EXCLUSION KEY is pressed, cycle is finished. If not, SPIN phase begins		
5.	**ESSORAGE**	SPIN	**Time dependent phase.** Duration 1'15" (4 cycles 15" ON (2 CW direction and 2 CCW direction) + 5" OFF) SPINNING_MOTOR (HIGH SPEED) starts work. DRAIN_EV is OFF during this phase. This phase is skipped if CENTRIFUGAL EXCLUSION KEY is pressed		

CYCLE II

	PHASE	PHASE CODE	DESCRIPTION	PARAMETER	VALUE
1.	**REMPLISSAGE**	FILL_L1	Level dependent phase. When pressing start key, cycle begin with this phase. LOAD_EV is activated until LEVEL_1 is reached (P1 switch closed). SPINNING MOTOR (LOW SPEED) → (LA_2, PAU2, CLA2, PAU2,… again until the level is reached) When LEVEL_1 is reached, the cycle will achieve engaged (LA_2, PAU2, CLA2, PAU2) sequence. If sanitizing cycle selected, M3 is activated (after 1' of filling) for a time specified by a parameter SA_2. If tub is yet full (P1 switch is closed) when pressing start key, FILL_L1 is skipped, and cycle jump to the next phase. (Sanitizing phase, if present, is activated (after 1' of filling), and the SA_2 value is **divided by 2** (Because the next cycle will have to much sanitizer)	*LA_2* *PAU2* *CLA2* *SA_2*	*40* (0-250 sec) *2* (0-10 sec) *40* (0-250 sec) *60* (0-250 sec)
2.	**LAVAGE**	WASH	Time dependent phase SPINNING MOTOR (LOW SPEED) → LA_2, PAU2, CLA2, PAU2) WASH_PUMP starts (according to selected speed) in same time as SPINNING_MOTOR. (set d1 = 0) Total time for washing is 3x LA_2, PAU2, CLA2, PAU2) If tank is already at level P1: Total time for washing is 5x LA_2, PAU2, CLA2, PAU2)	*LA_2* *PAU2* *CLA2*	*40* (0-250 sec) *2* (0-10 sec) *40* (0-250 sec)
3.	**VIDANGE**	DRAIN	Level dependent phase. Empty tub. Active DRAIN_EV until LEVEL_1 is released. When LEVEL_1 is released (P1 switch OFF), rinsing phase begins		
4	**RINCAGE**	RINSING	Time dependent phase. Duration ddEL LOAD_EV and SPINNING_MOTOR (LOW SPEED) is activated. Duration ddEL If CENTRIFUGAL EXCLUSION KEY is pressed, DRAIN_EV is deactivated 20 sec after ddEL. If not, SPIN phase begins	*ddEL*	*60* (0-250 sec)
5.	**ESSORAGE**	SPIN	Time dependent phase. Duration 1'15" (4 cycles 15" ON (2 CW direction and 2 CCW direction) + 5" OFF) SPINNING_MOTOR (HIGH SPEED) starts work. DRAIN_EV is OFF during this phase. This phase is skipped if CENTRIFUGAL EXCLUSION KEY is pressed		

CYCLE III

	PHASE	PHASE CODE	DESCRIPTION	PARAMETER	VALUE
1.	**REMPLISSAGE**	FILL_L2	Level dependent phase. LEVEL_2 or LEVEL_3 must be selected. When pressing start key, cycle begin with this phase. LOAD_EV is activated until LEVEL_2 or LEVEL_3 is reached (P2 or P3 switch closed). SPINNING MOTOR (LOW SPEED) → (LA_3, PAU3, CLA3, PAU3, … again until the level is reached) When LEVEL_2 (or 3) is reached, the cycle will achieve engaged (LA_3, PAU3, CLA3, PAU3) sequence. If sanitizing cycle selected, M3 is activated (after 1' of filling) for a time specified by a parameter SA_3. If tank is already at selected level P2 or P3 when pressing start key, FILL_L2 is skipped, and cycle jump to the next phase. (Sanitizing phase, if present, is shifted at the beginning of next phase)	*LA_3* *PAU3* *CLA3* *SA_3*	*28* (0-250 sec) *2* (0-10 sec) *28* (0-250 sec) *91* (0-250 sec)
2.	**LAVAGE**	WASH	Time dependent phase SPINNING MOTOR (LOW SPEED) → LA_3, PAU3, CLA3, PAU3) WASH_PUMP starts (according to selected speed) in same time as SPINNING_MOTOR. (set d1 = 0) Total time for washing is 3x LA_3, PAU3, CLA3, PAU3) If tank is already at selected level P2 or P3 when pressing start key: Total time for washing is 5x LA_3, PAU3, CLA3, PAU3)	*LA_3* *PAU3* *CLA3*	*28* (0-250 sec) *2* (0-10 sec) *28* (0-250 sec)
3.	**VIDANGE**	DRAIN	Level dependent phase. Empty tub. Active DRAIN_EV until LEVEL_1 is released. When LEVEL_1 is released (P1 switch OFF), rinsing phase begins		
4	**RINCAGE**	RINSING	Time dependent phase. Duration ddEL LOAD_EV and SPINNING_MOTOR (LOW SPEED) is activated. Duration ddEL If CENTRIFUGAL EXCLUSION KEY is pressed, DRAIN_EV is deactivated 20 sec after ddEL. If not, SPIN phase begins	*ddEL*	*60* (0-250 sec)
5.	**ESSORAGE**	SPIN	Time dependent phase. Duration 1'15" (4 cycles 15" ON (2 CW direction and 2 CCW direction) + 5" OFF) SPINNING_MOTOR (HIGH SPEED) starts work. DRAIN_EV is OFF during this phase. This phase is skipped if CENTRIFUGAL EXCLUSION KEY is pressed		

CYCLE IV - CLEANING CYCLE					
	PHASE	**PHASE CODE**	**DESCRIPTION**	**PARAMETER**	**VALUE**
1.	**INITIAL FILL**	FILL_L1	**Level dependent phase.** When pressing start key cycle begin with this phase. LOAD_EV is activated until LEVEL_1 is reached. If sanitizing cycle selected, sanitizing dispenser is activated for a time specified by a parameter SA_4. If tub is yet full when pressing start key, FILL_L1 is skipped and cycle jump to the next phase. (Sanitizing phase, if present, is shifted at the beginning of next phase).	*SA_4*	*60* (0-250 sec)
2.	**SPRAY WASH**	WASH	**Time dependent phase.** Duration LA_4. SPINNING_MOTOR (low speed) starts work and after a delay d1 also WASH_PUMP starts (according to selected speed).	*LA_4*	*28* (0-250 sec)
3.	**DRAIN**	DRAIN	**Level dependent phase.** Empty tub. Active DRAIN_EV until LEVEL_1 is reached, then DRAIN_EV stays ON for d2 seconds to ensure completely empty tub.	(See *ddEl*)	-
4.	**CENTRIFUGAL**	SPIN	**Time dependent phase.** Duration CE_4. SPINNING_MOTOR (low speed) starts work and after a delay d3, is switched to high speed. DRAIN_EV is on during this phase. CENTRIFUGAL EXCLUSION KEY in this case has no effect.	*CE_4*	*20* (0-250 sec)

MANUAL CYCLES

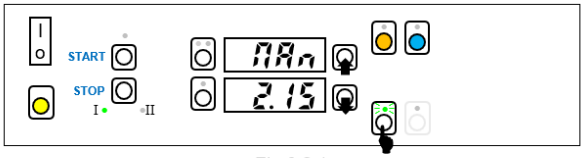


Fig.6.2.1
CENTRIFUGAL, duration 2 min and 15 sec

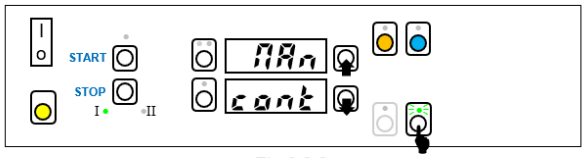


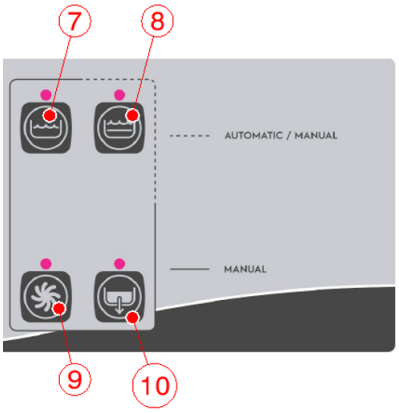
Fig.6.2.2
DRAIN, duration infinite

POWER ON

The same as previously descript in Automatic Cycles.

SELECTIONS (SETUP):

- Manual cycle is selected when one of the following keys is pressed.



  - NORMAL WASH (7)
  - CENTRIFUGAL (9)
  - DRAIN (10)

- Corresponding key led is ON. The upper display shows the label **man**.
  Automatic cycle led are off.

- Optionally, with arrow keys is possible to select the duration phase (step 5 s):
  - Starting from **cont** status, press ⬆ the display shows **0.05** press again ⬆ the display shows **0.10** and so on (**5.00** minutes is the maximum).
  - ⬇ key decrease time, below **0.05** s display shows **cont** (continuous) and the duration is infinite.

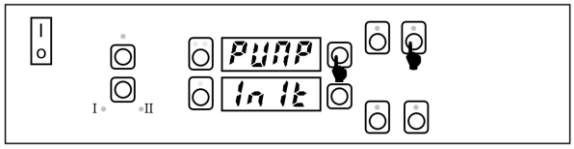
START WASHING CYCLE

Press **START** key to begin cycle according to selected phase. Corresponding led (above key) is on. Cycle can starts only if cover is close, except DRAIN phase that can be executed even if door is open.
During cycle execution pressing keys ⬆ and ⬇ has no effect. During cycle phase display shows count down.
Press **STOP** key again to stop cycle and go back to SETUP status.
If cover is opened during cycle execution, the cycle stops (STAND-BY status) and continues when cover is being closed again.

CYCLE END

If phase has a duration the cycle finishes when count down reach zero, START led is blinking and lower display shows **End**
If phase has an infinite duration only by pressing STOP key is possible to stop phase.

SANITIZING PUMP PRIMING CYCLING



Press the two keys (for 5") to launch the cycle.

The upper display shows the label: **PUMP**
The lower display shows the label: **InIt**

Cycle description (Cycle can starts only if cover is closed):

- Press START button.
- Step 1: LOAD_EV is activated until LEVEL_1 is reached.
- Step 2: Sanitizing dispenser is activated for 90".
- Step 3: DRAIN_EV is activated on for 30".
- When cycle finishes, START led is blinking and upper display shows **End**.
  Three beeps indicate end.

PARAMETER SETTING

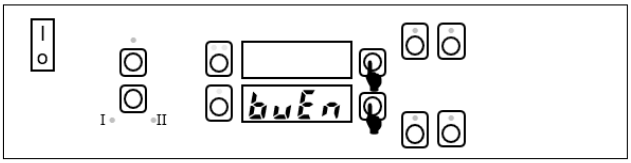


Fig.7.1

Press the two keys (for 5") to enter into USER parameter mode.

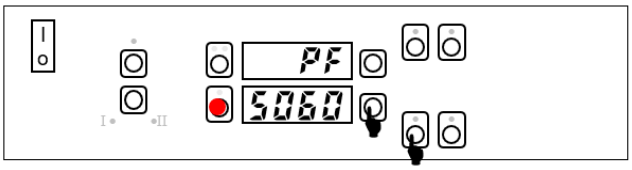


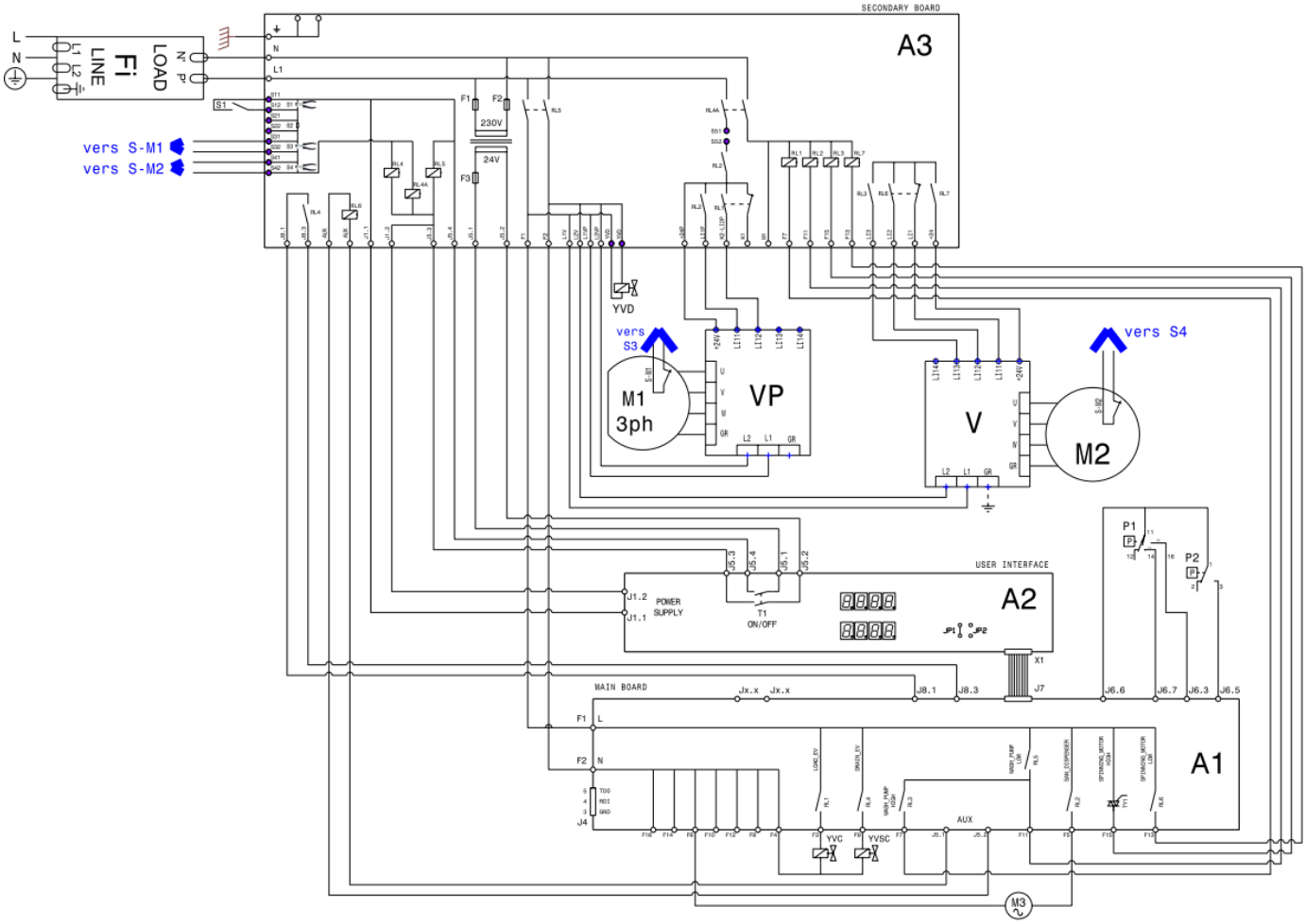
Fig.7.2

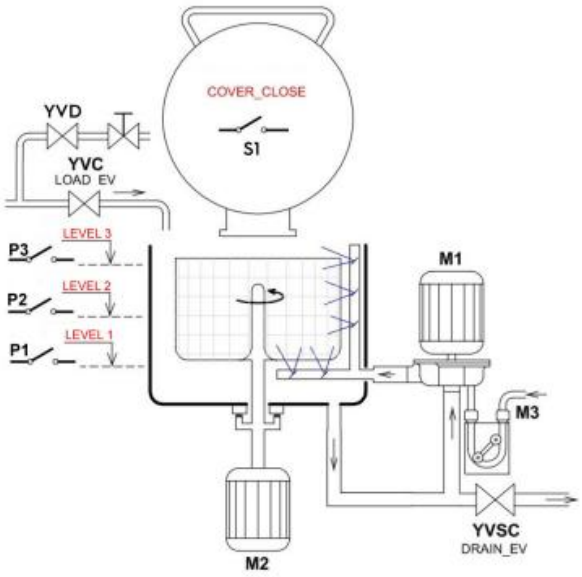
First enter into USER parameter mode (Fig.7.1) then press the two keys (for 5") to enter into FACTORY mode.

Utiliser UP and DOWN pour faire défiler et presser sur ● pour accéder à la valeur et la valider.

PAR	DESCRIPTION	UNIT	MIN	MAX	VALUE
5060	Must be selected in according to 50 or 60Hz power supply.	-	50H	60H	50H
type	**Select appliance model: 0=ZANUSSI, 1=DITO.**	-	0	1	0
LA_1	Cycle 1: washing phase duration.	[s]	0	250	40
LA_2	Cycle 2: washing phase duration.	[s]	0	250	40
LA_3	Cycle 3: washing phase duration.	[s]	0	250	28
LA_4	Cycle 4: washing phase duration.	[s]	0	250	28
CLA1	Cycle 1: washing phase duration (reverse basket spin).	[s]	0	250	40
CLA2	Cycle 2: washing phase duration (reverse basket spin).	[s]	0	250	40
CLA3	Cycle 3: washing phase duration (reverse basket spin).	[s]	0	250	28
CLA4	Cycle 4: washing phase duration (reverse basket spin).	[s]	0	250	28
LS_1	Cycle 1: Spray wash phase duration	[s]	0	250	30
LS_2	Cycle 2: Spray wash phase duration	[s]	0	250	30
LS_3	Cycle 3: Spray wash phase duration	[s]	0	250	30
LS_4	Cycle 4: Spray wash phase duration	[s]	0	250	30
CLS1	Cycle 1: Spray wash phase duration (reverse basket spin).	[s]	0	250	30
CLS2	Cycle 2: Spray wash phase duration (reverse basket spin).	[s]	0	250	30
CLS3	Cycle 3: Spray wash phase duration (reverse basket spin).	[s]	0	250	30
CLS4	Cycle 4: Spray wash phase duration (reverse basket spin).	[s]	0	250	30
PAU1	Cycle 1: pause duration.	[s]	0	250	2
PAU2	Cycle 2: pause duration.	[s]	0	250	2
PAU3	Cycle 3: pause duration.	[s]	0	250	2
PAU4	Cycle 4: pause duration.	[s]	0	250	2
CE_1	Cycle 1: centrifugal phase duration.	[s]	0	250	20
CE_2	Cycle 2: centrifugal phase duration.	[s]	0	250	20
CE_3	Cycle 3: centrifugal phase duration.	[s]	0	250	20
CE_4	Cycle 4: centrifugal phase duration.	[s]	0	250	20
FC_1	Cycle 1: final centrifugal phase duration.	[s]	0	250	30
FC_2	Cycle 2: final centrifugal phase duration.	[s]	0	250	30
FC_3	Cycle 3: final centrifugal phase duration.	[s]	0	250	30
FC_4	Cycle 4: final centrifugal phase duration.	[s]	0	250	30
SA_1	Cycle 1: sanitizing phase duration.	[s]	0	250	60
SA_2	Cycle 2: sanitizing phase duration.	[s]	0	250	60
SA_3	Cycle 3: sanitizing phase duration.	[s]	0	250	91
SA_4	Cycle 4: sanitizing phase duration.	[s]	0	250	60
PdEL	Pump delay from basket motor start.	[s]	0.0	25.0	1.0
ddEL	Rinsing delay.	[s]	0.0	250	60
SPd	Pump speed switch delay. (Delay from low to high speed.)	[s]	0.0	25.0	2.0
SMd	Motor speed switch delay. (Delay from low speed to centrifugal.)	[s]	0.0	25.0	2.0
LOTo	Water low level load timeout [min].	[min]	0	30	10
HIto	Water high level load timeout [min].	[min]	0	30	20
buEn	Buzzer enable.	-	n	Y	y
dEL	Key delay.	[s]	.5	20.0	1.5
LdEL	Key long delay.	[s]	.5	20.0	3.0
rEL	FIRMWARE RELEASE.	-	-	-	4.03

ELECTRICAL WIRING DIAGRAM





A1	CARTE MERE MAIN BOARD		P1	PRESSOSTAT NIVEAU 1 FIRST LEVEL PRESSURE SWITCH
A2	CARTE COMMANDE USER INTERFACE		P2	PRESSOSTAT NIVEAU 2 SECOND LEVEL PRESSURE SWITCH
C1-C2	CONDENSATEUR CAPACITOR		YVD	ELECTROVANNE DOUCHETTE WATERJET SOLENOID VALVE
K1-K2	DISJONCTEUR CIRCUIT BREAKER		YVSC	ELECTROVANNE EVACUATION DRAINING SOLENOID VALVE
E1	FUSIBILE FUSE		YVC	ELECTROVANNE ALIMENTATION FILLING SOLENOID VALVE
TR	TRANSFORMATEUR TRANSFORMER		RL1	CONTACTEUR (POMPE Vitesse 2) SECOND SPEED PUMP RELAY
Fi	FILTRE CEM EMC FILTER		RL2	CONTACTEUR POMPE PUMP RELAY
M1	POMPE DE LAVAGE WASH PUMP		RL3	CONTACTEUR ESSORAGE HIGH SPEED DRUM MOTOR RELAY
M2	MOTEUR PANIER BASKET SPINNING MOTOR		RL4	CONTACTEUR DE SECURITE SAFETY RELAY
VP	VARIATEUR POUR M1 M1 SPEED INVERTER		RL5	CONTACTEUR ALIMENTATION CARTE MERE MAIN BOSRD POWER SUPPLY RELAY
V	VARIATEUR POUR M2 M2 SPEED INVERTER		RL6	CONTACTEUR INVERSION SENS CW-CCW MOTOR RELAY
S1	SECURITE COUVERCLE #1 COVER MICROSWITCH 1		RL7	CONTACTEUR MOTEUR PANIER DRUM MOTOR RELAY
M3	DISTRIBUTEUR DESINFECTANT SANITIZING DISPENSER			

INSTALLATION

The unit comes with two attached pieces (red arrows) that create enough space to allow for a correct bend radius for the drain hose. These two pieces allow the water jet hose to be suspended.





It's possible to install the appliance closer to the wall. To do this it's necessary to remove the 2 parts (the screws will be fitted to hide the holes).







SPRING COVER REPLACEMENT



Tools required (from left to right) :
- Size 8 open-end wrench
- Large flathead screwdriver
- T20 Torx screwdriver
- Size 26 open-end wrench

Time required : approximately 30 minutes

Disassemble front panel (2 screws)



Remove left panel (4 screws)



Remove spring cover



Release the spring



Remove 2 screws back of the handle
and 4 screws fixing the lid



Remove the handle



Remove 3 nuts M5



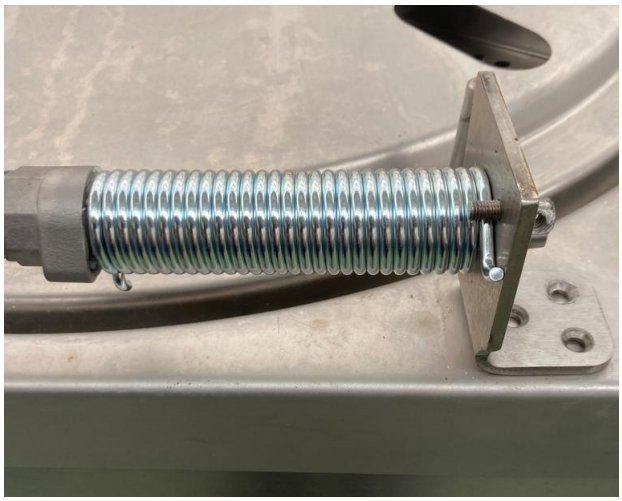
and the bracket



Remove the old spring and add new grease



put in place new spring



Fix the bracket

put in place the handle and fix the screws





Tighten up the spring until the lid closes smoothly



Put the spring cover in place



Put in place and fix left and front panels

