4 - THE DISHWASHER MAINTENANCE

4.1. - The fault codes

- **Display with LCD or digits:** on this type of screen, codes are displayed in clear.
- **Display with LEDs:** on the programming without display, fault codes are indicated using LEDs (vertical or horizontal depending on the strip aesthetics).

To know the fault number, you have just to add the binary weight of the LEDs illuminated.

The weight of a LED is the binary value corresponding to its position: for example **1 2 4 8** = **15**

FAULT "CODE"		FUNCTIONS	
LED display	LCD display	and/or ELEMENTS TO BE CHECKED	
0000	888	Filling >>> No High Level after approximately 2' of supply to SV(s) ⇒ Check solenoid valve SV1 and Level control FBS	
0000	888	Draining >>> No Low Level after 30" of draining ⇒ Check the pump and the level control FBS	
0000	888	Heating >>> No heating ⇒ Check the heating tunnel and the door safety device	
0040	888	Thermistor (NTC) OOO or disconnected ⇒ Check its value (47 kΩ at 25°C)	
0040	888	Current consumed by the cycling pump too low ⇒ Check whether the pump is cut or disconnected	
0000	888	Current consumed by the cycling pump too high ⇔Check whether the pump is blocked or OOO	
0000	888	Leak detection ⇒ Check for abnormal presence of water in the chassis bottom (float contact actuated)	
0008	888	Alternation valve fault ⇒ Check that the system is not blocked and that micro-motor or position sensor are not OOO	
0008	888	Notused	
0008	888		
0008	888	Fault of the pressure transducer fitted to some cycling pumps ⇒ Check that its wiring is not cut	
0048	888	Filling >>> High Level lost during the static filling	
0048	888	Overheating >>> T° read by the NTC too high ⇒ Check that the heating relay is not closed or NTC is not OOO	
0000	888	Filling >>> Cycling pump current not stabilized ⇒ Check the draining (siphoning) and the cycling pump	

4.2. - The aid-to-diagnostic program (ADP)

Signalling of faults during the ADP: some fault codes may not appear during cycle. On the other hand, they will be displayed, for the technician, during the ADP.

For the programming without display, the programming appears in clear (see table of codes).

- For models with LEDs, the way in which one of the LEDs is used indicates the dishwasher status:
- **★ : LED flashing slowly** (0.5["] / 0.5") → waiting for servocontrol (level, T[°] ...)
- ●: LED steady → servocontrol reached or status correct (step "OK")
- ***** : LED flashing rapidly $(0.1" / 0.1") \rightarrow$ fault detected
- Transition to next step by pressing "Start ⁽⁾)" button. It is thus possible to skip steps (except those where it is necessary to wait for level or temperature servocontrol).
- Checks possible during the ADP: The board stores the latest ADP data, which allows opening the door (level check) or disconnecting the appliance to check the defective circuit, replace the defective part then connect the product again and continue the ADP.
- Cancellation and exit from the ADP: a dishwasher de-energization or actuation of the "On/Off" button does not cancel the current ADP. It is thus necessary to hold the "Start ⁽⁾) " button down for 2" to exit the ADP. For models with keyboard on the door edge (Full), this operation is performed with the door open.
- > Preliminary steps and conditions to enter the ADP
- <u>Remove the plinth and the front crosspiece</u> to gain access to the aid-to-diagnostic leaflet
- <u>Remove the right-hand panel</u> to see the emptying of the water reserve intended for the regeneration
- <u>Use a clamp-on probe</u> to check the power supply to heating element
- Empty the appliance, open the cock and close the dishwasher door
- > ADP start

Type of access		Actions	Display
Micro-travel keys (of pushbutton type)	Cancel the	5 actuations of "Start 🕙" in less than 5"	Signalling of all the LEDs?
Touch controls ("smooth keyboard)	2 sec. on with door open for Full appliances	Hold the " + " key of the deferred start and 5 actuations of "Start" ^(a) in less than 5"	Illumination of all display segments? + Buzzer if any NO: the ADP is not started. YES: the ADP is started ⇔ Continue to run it

- Models with control keyboard on the door edge (Full):

The ADP is started with the door open. Then, close the door to continue. The display must be visible and the "Start 🛞 " key accessible. So, the dishwasher must be moved forward from under the working surface or the top must be removed from the dishwashers fitted with.

> ADP run

Action	Step	Run / Check		Analysis / Display	
"Start" (়)	01	Check of access	A single LED illuminates at a time?		
		Each button actuation or the selector rotation modifies the display.	Display modification on each actuation?		
	•••		NO	Access board OOO.	
			YES	Nothing to signal.	
"Start"	02	- Check of temperature management	I LED flashes rapidly and/or □ I is displayed		NTC 000
		NTC: approximately 47 K Ω at 25°C	● LED becomes steady or "OK" Nothing report.		Nothing to report.
	03	- Draining in fraction	Low level (N0) reached?		
			✿ 1 LED flashes slowly or "IN PROGRESS" if high level		
		According to model, power supply: - Condenser SV2 - Ventilator	● LED becomes steady or "OK" if low level (L0)		
"Start"			<i>NO</i> + ₩ and/or 882	- Level FBS shorted - Float blocked up - Draining pump OOO	
			YES	Nothing to report	

Action	Step	Run / Check		Analysis / Display		
		- Filling (SV1)	Filling and high level (L1) reached?			
			✿ 1 LED flash	es slowly or "IN PROGRESS" if low level		
			• this LED be	comes steady or "oк" if high level ⇔ Filling stop		
			NO +	- Level FBS cut		
"Start"	04	According to model, power supply:	★ and/or	- Float blocked down		
(\Rightarrow)	04	- Condenser SV1 + Fan	888	- 501 000		
		and Anti-leak check	NO			
			+ ₩ and/or	- Anti-leak actuated:		
			YES	NOTHING TO REPORT		
		- Dynamic filling	• • • • • • •	Do winches rotate correctly?		
		- Cycling - Alternate spraving (if present)	this LED flashes slowly of "IN PROGRESS" this LED becomes stoody or "OV" Filling stop			
		Power supply:	■ this LED becomes steady or "OK" ➡ Filling stop			
		- SV1 (30" without cycling)	- the right rotation of winches			
		- Cycling pump + SV1	- the alternate spraying (if present)			
		- Alternate-spraving motor (if present)	NO	Arms clogged or blocked		
"Start"		"OLIATTRO" dishwasher	NO			
(\Rightarrow)	05	- " $\mathbf{E}5 \cdot 0$ " $\Rightarrow 30$ " SV1 without cycling	+ * and/ar	- Cycling pump OOO		
		- "E5:1" ⇔ test of filling	# and/or			
		+ spraying down	NO			
		If "OK" ⇔ - "в5:2" ⇔ test of filling	, +	- Alternate-spraying flap valve OOO		
		+ simultaneous spraying	₩and/or	(positioning contact or micro-motor)		
		lf "οκ" ⇒ (↔)	000			
		+ inner-door spraving	YES	Nothing to report		
		- Heating	+ 5°C after 5' heating?			
		- Cycling at regulated pressure (if				
			■ this LED becomes steady or "OK" if T° has increased ⇒ Heating stop			
			NO			
"Start"		Water topping up if need be	+	Heating tunnel OOO		
(\mathbf{H})	06		₩ and/or			
_		Current concurred during beating: 0.4	0			
		Current consumed during heating. 9 A	+	Pump pressure transducer OOO		
				(if pump fitted with it)		
			YES			
		- Regeneration valve (RV)	ls t	the technical zone reserve emptying?		
"Start"	07	Remove the right-hand panel to see the	NO	Regeneration valve OOO		
		regeneration reserve emptying	YES			
		- Check of salt level	I ED flash	es ⇔ Tank empty - I ED steady ⇔ Tank full		
Ŭ			NO	EPS (Elevible Blade Switch) 000		
		Move the FBS using a magnet	VEC			
"Stort"	08	Dinging graduat intaka	123			
		- Rinsing product intake		s product flowing along the door?		
		Open the door after 1 power supply to the	NO			
			YES			
		- Check of rinsing liquid level	LED flashes	⇒ reserve empty - LED steady ⇒ Reserve full		
		Move the FBS using a magnet	NU	FBS (FIEXIDIE BIAGE SWITCH) OOO		
"Ctort"			YES			
Start	09	- braining in traction	1	to cycling (inner-aoor rinsing)		

Technical training

MAINTENANCE

$(\boldsymbol{\flat})$	According to model, power supply:	Draining – Low level (L0) reached?	
	- Condenser SV2 + Fan - Inner-door ramp SV	NO + - FBS shorted or Float blocked up ★ and/or - Draining pump OOO	
		YES NOTHING TO REPORT	
"Start" (ii)	or ON/OFF or Mains cutoff	One of these 3 actions ends the ADP	