A: Production

Industrialization

Time and method

Inner quality check

C.S.Q.

Test cycle :

FREE STANDING DISHWASHERS

4TH GENERATION

code	Model index	model
19610 0183	**02**	**4TH GENERATION- FREE STANDING**

1 – introduction

The current document describe the execution of the test cycle for the 4th generation electronic timer , totally built in dishwasher with led.

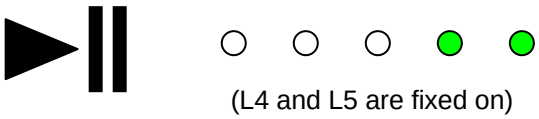
2 – Test cycle

2.1 – Test cycle activation

Activation mode

The test cycle activation can be done if the dishwasher is at the beginning status with empty chamber. To do this it's enough to recal the "program cancellation" mode described at point 2.2. The test cycle is then re-called as following described:

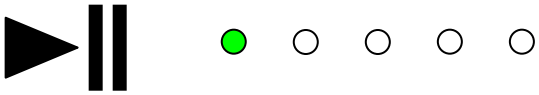
a) close the door and wash cycle on pause condition, press the A/P (start/pause) button. After 5 seconds, the "cycle cancellation" is shown on the display as follow:



(L4 and L5 are fixed on)

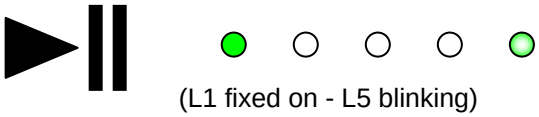
Or P0

a) Keep the A/P button pressed till the program warning lights are as following: (only L1 Is switched on):



Or 01

b) Release and then immediately press the A/P button (within 3 seconds). The buzzer gives out an acoustic signal and the test cycle is identified by the following:



(L1 fixed on - L5 blinking)

Or C1

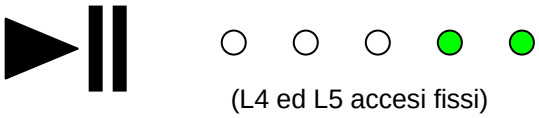
For those models which foresee the salt and rinse aid warning lights, these can be blinking during the cycle.

If the test cycle procedure isn't correctly done , it's necessary to repeat the procedure starting from the point (a).

2.2 - Program cancellation and/or end of the test cycle

To cancel the program and to restore the machine to the beginning status, follow the procedure here after described:

a) Close the door and and wash cycle on pause condition, press and keep pressed the A/P (start/pause) button After 5 seconds, the "cycle cancellation" is shown on the display as follow:



(L4 ed L5 accesi fissi)

Or P0

a) The machine starts automatically the drain phase, at the end it shows the end cycle.

(L4 and L5 blinking)

Or End

2.3 - Test cycle execution:

Phase	Description	Alternate valve position	warning light status
1)	**TEST CYCLE BEGINNING:** the machine is with the closed door ready for the test cycle execution	-	/ C1
2)	**TEST CYCLE BEGINNING** Close the door. After some seconds the machine starts to fill (at first it starts with stopped motor, then with moving motor) It's could occur that the cycle starts with a drain.	Upper basket (upper washing , if it's foreseen)	/ C2
3)	**DETERGENT DISPENSER OPENING** After the pressure switch level has been reached, the machine ends the filling, the heating element is activated and the dispenser unit is being supplied.	Upper basket	/ C3
4)	**HEATING** The machine starts the heating till reaching 45°. (for some models , if the program selection button is pressed, the heating phase is eliminated, for the touch control versions if any button is pressed the heating phase is eliminated)	Upper basket 30" Lower basket 30"	/ C3
5)	**HEATING** The machine starts the heating till reaching 50°. (for some models , if the program selection button is pressed, the heating phase is eliminated, for the touch control versions if any button is pressed the heating phase is eliminated)	Lower basket	/ C3
6)	**WAITING THE OPERATOR INTERVENTION (it lasts max 30')** Once the temperature is reached, the machine continues to wash. During this phase , the regeneration coil works (it lasts max 30 minutes) **To proceed the cycle, the operator has to lift the antiflood safety device up (polystyrene) or to press the program selection button.**	Lower basket	/ C4
6)	**FINAL DRAIN** Once the antiflood safety device is activated , the machine drains.	(upper basket)	/ C4
7)	**DOOR OPENING/ WAITING THE OPERATOR INTERVENTION/TEST CYCLE END** At the end of the drain phase, the re generation electric valve is activated and possible door opening (max 3'). Once the machine is switched off, **the test cycle ends**. (see point 9). Once the program selection button is pressed, the automatic test proceeds (it lasts max 3+15 minutes)	(upper basket)	/ C5 & / C6
8)	**AUTOMATIC TEST CYCLE FOR THE FINAL LOAD** Once the program button is pressed, the water is filled in order to start the following automatic test cycle till reaching the pressure switch full condition (+ 2")	(UPPER BASKET)	/ C7
9)	**TEST CYCLE END** Once the final load is done, the display shows as described on the right. Switch the machine off and open the door to check the detergent dispenser opening. Switch the machine on and verify that the programs/options warning lights work.	(UPPER BASKET)	/ End

BLINKING LED LED ON

2.4 - Verification of the option board functioning (only for those models which are equipped with this board)

1. Program verification. Select one after the other, all the programs and verify that the related warning light switches on; the display shows the program length (if it's foreseen).
2. Delay timer verification (if it's foreseen). Set a program (excluded the soak); press consecutively the delay timer button and verify that the related warning light and/or the display shows 1h, 2h, etc…Switch the delay off , by continuously pressing the delay button.
3. Verification of the other options (where foreseen). Set a program (excluded the soak); press the option button and verify that the related warning light switches on. Press the button once again and verify that the warning light switches off. If it's foreseen the ½ load , the upper ½ load can activate at first and then the lower ½ load.

GENERAL CHECKS TO CARRY OUT DURING THE CYCLE

1) veirfy possible water leakages as pointed out into I0 06
2) verify that the salt and rinse aid warning lights work (if foreseen)
3) upper washing functioning (if foreseen)

N.B.: the operative modes of these procedures are defined into the machine working cycle (done by T&M)

3) Alarms

The possible errors and the relative led displays are shown below. If an error is detected during the test cycle, rectify the error and then open and close the door to continue with the test.

ALARM	ANOMALY	WHAT THE DISPLAY SHOWS
E1	The flood prevention system has been activated (if included)	/ E1
E3	Does not heat up	/ E3
E4	Temperature probe disconnected	/ E4
E5	Does not fill	/ E5
E6	Does not drain	/ E6
E7	Malfunction of turbine water meter (flow meter only)	/ E7
E8	Malfunction of alternating valve (alternating wash only)	/ E8
E9	Fill level limit exceeded (flow meter only)	/ E9
E10	Malfunction of turbidity sensor (turbidity sensor only)	/ E10

FLASHING LED

LED ON