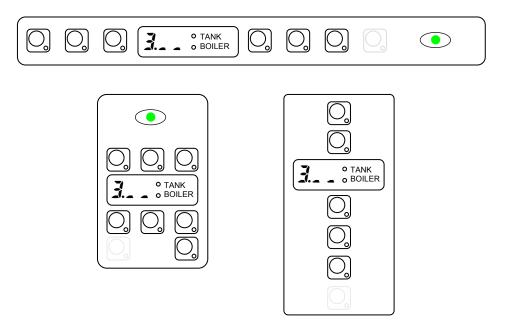


SERVICE MANUAL



CONTENTS: This document contains the instruction to change parameter settings of electronic board by means of user interface.

EDITION: 06.2005



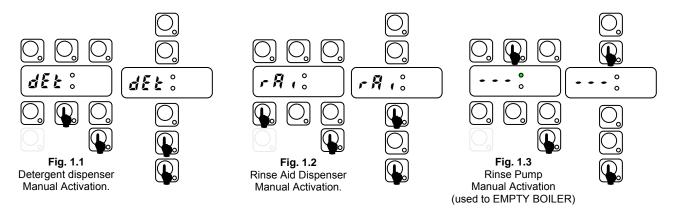
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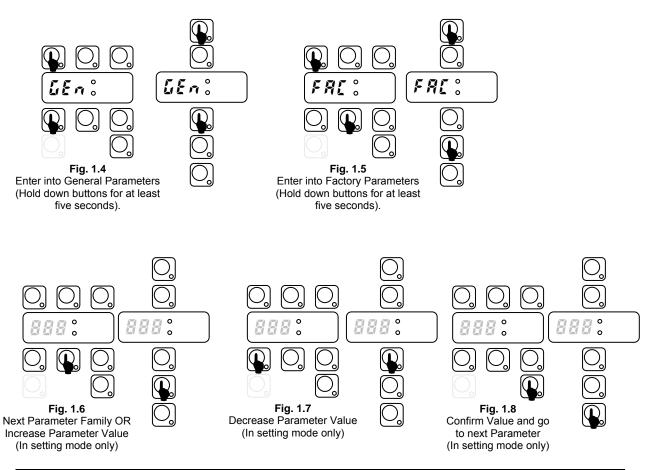
1. KEYBOARDS

1.1. HOOD TYPE Style



SETTING MODES:

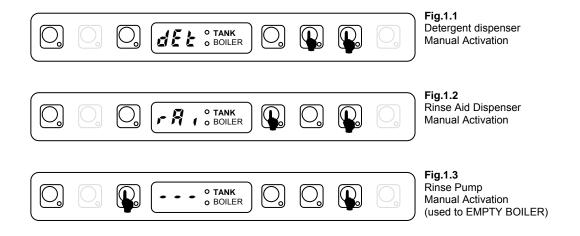
To enter into one setting mode (Fig.1.4, Fig.1.5) the appliance should be in stand-by: switch on the appliance, no cycles selected. Is useful keep door open to avoid start cycle in case of not simultaneously pressure of the two keys.



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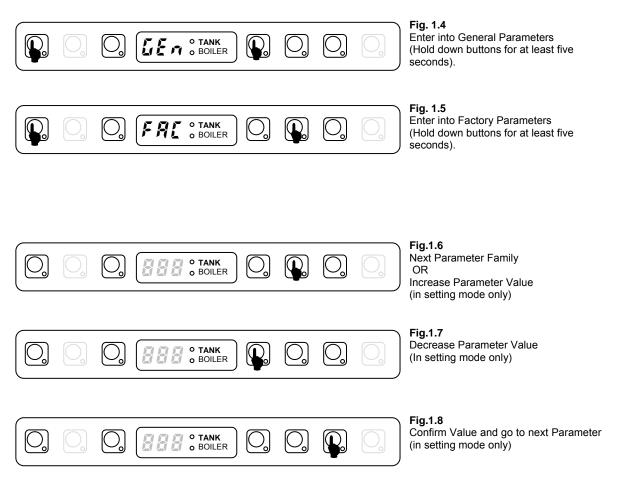


1.2. UNDERCOUNTER Style



SETTING MODES:

To enter into one setting mode (Fig.1.4, Fig.1.5) the appliance should be in stand-by: switch on the appliance, no cycles selected. Is useful keep door open to avoid start cycle in case of not simultaneously pressure of the two keys.

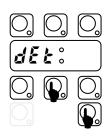




2. MANUAL ACTIVATION OF DETERGENT AND RINSE AID DISPENSERS

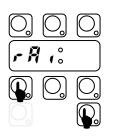
When replacing detergents may be necessary activate the dispensers to fill hoses.

2.1. Detergent Dispenser Activation



Switch on the dishwasher. Press and hold down CYCLE_2 and CYCLE INFINITE keys, after two 'beep' the detergent dispenser starts work for 20 sec.

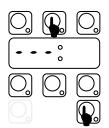
2.2. Rinse Aid Dispenser Activation



Switch on the dishwasher. Press and hold down CYCLE_1 and CYCLE INFINITE keys, after two 'beep' the rinse aid dispenser starts work for 40 sec.

3. RINSE PUMP MANUAL ACTIVATION

Use this function to empty the boiler (if the dishwasher is not to be used for a long time, for maintenance operation: ex. before replacing main board).



Switch on the dishwasher.

Close the door and press and hold down DRAIN and CYCLE INFINITE keys. A buzzer signal indicates the rinse pump activation and the display shows three blinking lines. Three beeps indicate the cycle end.

4. DETERGENT AND RINSE AID DOSAGE

In this paragraph is explained how to set the working time for the detergent and rinse aid dispensers. For each dispenser there are two parameters: the initial time and the time during cycle execution.

GEn General Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
d in	Initial Detergent Dosage (during filling tank)	[s]	0	240	90
r In	Initial Rinse Aid Dosage (starts when tank filled)	[s]	0	180	10
dEt	Detergent Dosage During Cycle Execution (during wash phase)	[s]	0	182(*)	8
rß,	Rinse Aid Dosage During Cycle Execution (when refilling boiler)	[s]	0	62 (*)	4

How change the duration:

- Switch OFF and switch ON the dishwasher;
- Enter into the USER SETTING mode by pressing and hold down ON/OFF and CYCLE_1 keys for at least <u>five seconds</u> the display shows *LE n* (Fig.3.1);

• Press CYCLE_INFINITE. The display shows alternatively the symbol **d** in and the duration in seconds (Fig.3.2 and 3.3);

NOTE: If User Interface v.3.00 tank led is on if value correspond to factory default (Default 1, HOOD TYPE).

- Use CYCLE_1 key to decrease the duration and CYCLE_2 key to increase (Fig.3.3);
- After settled the duration press CYCLE_INFINITE key to store value. The display shows the next parameter (Fig.3.4) and the corresponding value (Fig.3.5);
- In the same way is possible to change the other duration; when finished switch OFF and switch ON.



Enter into User Mode (press for 5 sec).

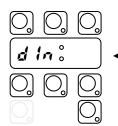


Fig. 3.2

Initial detergent dosage

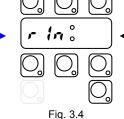
0 0

EĿ

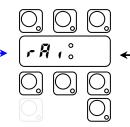
Fig. 3.3 Change duration. (Tank LED indicates default).

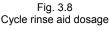


Fig. 3.7 Change time activation (Tank LED indicates default)



Initial rinse aid dosage







24 °



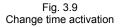


Fig. 3.6

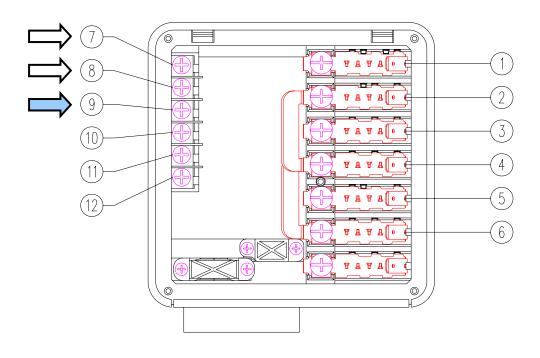
Cycle detergent dosage



(*) Note for external dispensers:

• If dEt:181	the detergent dispenser works when WASHING PUMP is being activated; at the same time voltage is supplied between connectors $L1_7-L1_9$ (main terminal box);
. и dEt:182	the detergent dispenser works when LOADING EV is being activated to re-fill boiler level; at the same time voltage is supplied between connectors $L1_7-L1_9$ (main terminal box);
. ₁₁ r A i: 51	the rinse aid dispenser works when LOADING EV is being activated to re-fill boiler level; at the same time voltage is supplied between connectors $L1_8$ – $L1_9$ (main terminal box);
. IF FR 12 62	the rinse aid dispenser works when WASHING PUMP is being activated; at the same time voltage is supplied between connectors $L1_8-L1_9$ (main terminal box);

- For electrical connections refer to electric diagram -



Example

Suppose there is connected an external detergent dispenser with a probe into the tank. A typical setting could be:

d in: \vec{u} the dispenser is not activated during filling tank;

dEE: 181 the dispenser is supplied during washing phase and the probe automatically dose the right detergent amount.

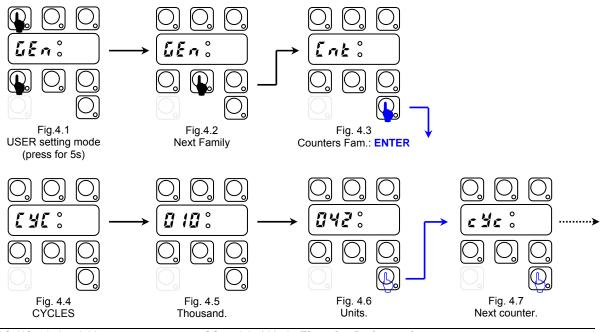


5. COUNTERS

This Parameter Family collects cycle counters and water consumption counters. For water consumption counters a flow meter must be installed. See **PPL** (calibration parameter) into **dPR** section (§ Other Parameters).

Ent Counters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
[4[Cycles performed counter. LYL symbol and two numbers blink consecutively. The cycle number is obtained by joining the two numbers. Ex. LYL \rightarrow 10 \rightarrow 042 means 10042 cycles executed.	-			
сУс	Cycle counter (resettable). This counter is similar to \mathcal{LYL} but is resettable by user (see $\mathbf{r5k}$ parameter below).	-			
nnc	Water Consumption. [present up to software version 3.12] Counts m^3 of water consumption.	[m ³]			
Ĺ	Water Consumption. [present up to software version 3.12] Counts litres of water consumption. The total consumption is given by adding nnc [m ³] and l [1] values.	[1]			
6 18	Water Consumption: resettable counter. [present up to software version 3.12] Counts the litres of water and is resettable by user (see -5 parameter below).	[1]			
r St	Reset resettable counters: $\mathcal{L} \mathcal{L} \mathcal{L}$ and $\mathcal{L} \mathcal{L} \mathcal{L}$ To reset put 1 this parameter, switch off and then on again: $\mathcal{L} \mathcal{L} \mathcal{L}$ and $\mathcal{L} \mathcal{L} \mathcal{L}$ will show zero. Note that $\mathcal{L} \mathcal{L} \mathcal{L}$ is used to count cycles for $\mathcal{L} \mathcal{R} \mathcal{L} \mathcal{L}$ message (see next parameter, $\mathcal{R} \mathcal{L} \mathcal{L}$).	-			
n[¥	Store <u>thousand</u> of cycles after that [Ri]; message appears on display. Ex. If this parameter is settled to 20, [Ri]; message appears when cic reach 20.000 cycles.	-			
dra	Drain/Cleaning cycles performed. Similar to LYC but counts Cleaning Cycles.	-			
r[¥	Numbers of cycles that can be made after a regeneration cycle (only for dishwashers with non-continuous water softener) [See paragraph 9.1 resin regeneration cycle.].	-			20
nrE	Regeneration cycle counter (only for water softener dishwasher) [See paragraph 9.1 resin regeneration cycle / paragraph 9.4 Dishwashers with incorporated continuous water softener].	-			



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6. TEMPERATURE SETTING

In this paragraph is explained how to change temperature thresholds and all parameters related to boiler and tank.

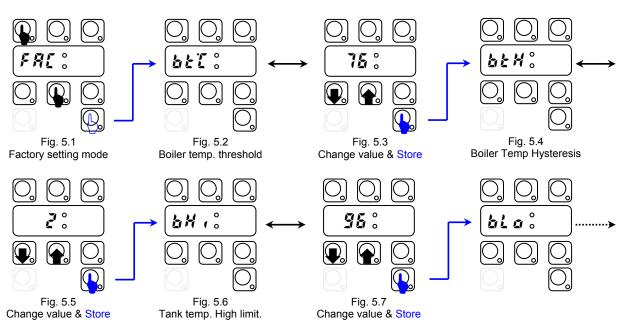
FRE Factory Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
68I	Boiler Temperature: THRESHOLD. When boiler temperature reaches this value, heaters switch off.	[°C]	45	95	78
66 X	Boiler Temperature HISTERESIS, (represent dead band). Heater switch on if boiler temperature is below: bbC bbH	[°C]	2	10	2
6X,	Boiler Temperature: HIGH LIMIT. When boiler temperature reaches this value $\begin{bmatrix} z \\ z \end{bmatrix}$ alarm appears. Put 0 to disable $\begin{bmatrix} z \\ z \end{bmatrix}$ alarm.	[°C]	0	98	96
610	Boiler Temperature: LOW LIMIT. During boiler warm-up, temperature must increase at least $b \not L o \circ C$ otherwise $f \vec{J}$ warning appears. Put 0 to disable $f \vec{J}$ warning.	[°C]	0	10	1
5FL	Boiler Filling Timeout. If filling time is longer than bFL , A / alarm appears. Put 0 to disable A / alarm.	[min]	0	42	5
684	Boiler Temperature Adjust.	[°C]	0	7	4
6 <i>P</i>	Boiler Priority (enable boiler wait function) 0=disabled 1=enabled	-	0	1	1
65E	Booster Function Overheat gap over Boiler Temperature Threshold	[°C]	0	15	2
błd	Boiler temperature negative differential: when the dishwasher is in standby, boiler threshold becomes: bt C - bt d (Used to save energy during machine inactivity by keeping boiler water at a lower temperature).	[°C]	0	20	0
22T	Tub Temperature: THRESHOLD When tank temperature reaches this value, heater switch off.	[°C]	40	85	63
2 E M	Tub Temperature: HISTERESIS, (represent dead band). Heater switch on if tank temperature is below: LEC - LEM	[°C]	2	30	5
EX,	Tank Temperature: HIGH LIMIT. When tank temperature reaches this value $\begin{bmatrix} 3 \\ 3 \end{bmatrix}$ alarm appears. Put 0 to disable $\begin{bmatrix} 3 \\ 3 \end{bmatrix}$ alarm.	[°C]	0	95	75
tία	Tank Temperature: LOW LIMIT. During tank warm-up, temperature must increase at least $b \ a$ °C otherwise $\xi \ a$ warning appears. Put 0 to disable $\xi \ a$ warning.	[°C]	0	10	1
551	Tank Filling Timeout. If filling time is longer than とドレ, オー l alarm appears. Put 0 to disable オー l alarm.	[min]	0	42	20

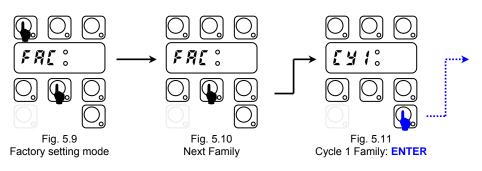


To modify thresholds do the following:

- Switch OFF and switch ON the dishwasher;
- Enter into the FACTORY SETTING mode by pressing and hold down ON/OFF and CYCLE_2 keys for at least five seconds (Fig.5.1);
- Press CYCLE INFINITE. The display shows alternatively the symbol **b c** (Fig.5.2) and the corresponding value **7** (Fig.5.3); Use CYCLE_1 key to decrease the value and CYCLE_2 key to increase (Fig.4.3);
- Press CYCLE INFITE key to <u>confirm</u>. The display shows the next parameter (Fig.4.4) and the corresponding value (Fig.4.5); ٠
- In the same way is possible to change the other parameters; when finished switch OFF and switch ON.



At the end the display will show again 'FAC' and by pressing CYCLE_2 key (Fig.4.9) is possible to change cycle duration (see next paragraph).

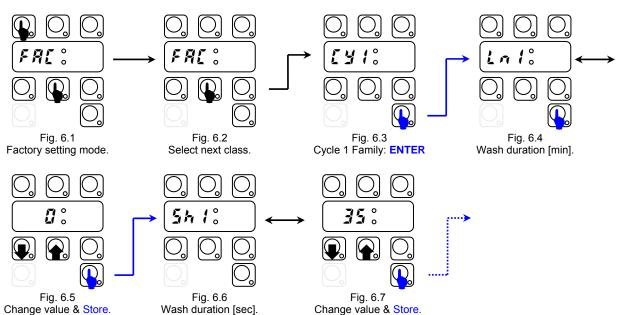




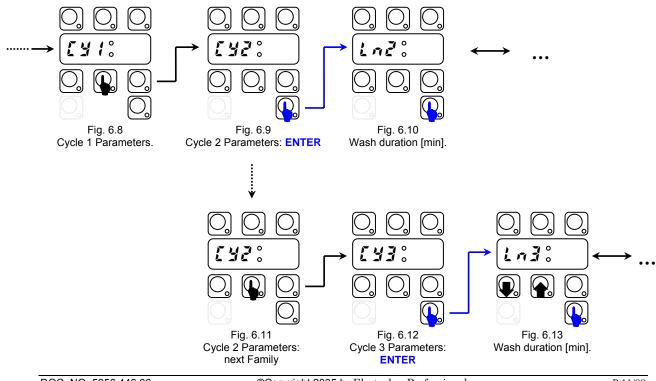
7. CYCLE SETTING

In this paragraph is explained how to change cycle phases duration (see Tab.1 next page).

- Switch on the dishwasher;
- Enter into the FACTORY SETTING mode: press and hold down ON/OFF and CYCLE_2 keys for at least 5 seconds (Fig.5.1);
- Press CYCLE_2 key to select CYCLE_1 parameters.
- Press CYCLE_INFINITE. The display shows alternatively the symbol (Fig.5.2) and the corresponding value (Fig.5.3);
- Use CYCLE_1 key to increase the value and CYCLE_2 key to decrease (Fig.5.3);
- Press CYCLE_INFINITE key to confirm. The display shows the next parameter (Fig.5.4) and the corresponding value (Fig.5.5);
- In the same way is possible to change the other parameters;

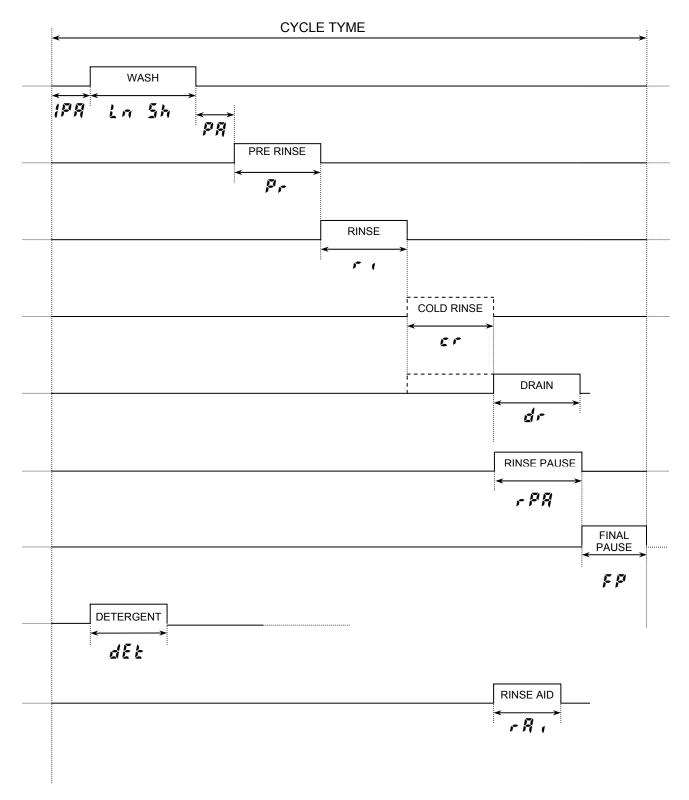


After settled all parameters referring Cycle 1, by pressing CYCLE_2 key is possible to change the Cycle 2 parameters (Fig.5.8, 5.9) and so on.





CYCLE DIAGRAM





[Y] Cycle 1 Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
Lal	Wash Phase Long	[min]	0	20	0
5h 1	Wash Phase Short	[s]	1	60	35
PA (Pause	[s]	0	20	4
Pr 1	Pre-rinse Duration	[s]	0	30	0
ril	Rinse Phase Duration	[s]	10	45	16
er l	Cold Rinse Phase Duration	[s]	0	50	0
dr l	Drain	[s]	0	40	16
FP {	Final Pause at End of Cycle	[s]	0	60	0

Cycle 2 Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
LnZ	Wash Phase Long	[min]	0	20	0
5h2	Wash Phase Short	[s]	1	60	45
PRZ	Pause	[s]	0	20	4
PrZ	Pre-rinse Duration	[s]	0	30	0
r ng	Rinse Phase Duration	[s]	10	45	16
erð	Cold Rinse Phase Duration	[s]	0	50	0
drð	Drain	[s]	0	40	16
FP2	Final Pause at End of Cycle	[s]	0	60	0

[Y] Cycle 3 Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
En J	Wash Phase Long	[min]	0	20	1
5h3	Wash Phase Short	[s]	1	60	40
PR3	Pause	[s]	0	20	4
Pr 3	Pre-rinse Duration	[s]	0	30	0
r 3	Rinse Phase Duration	[s]	10	45	16
er 3	Cold Rinse Phase Duration	[s]	0	50	0
dr 3	Drain	[s]	0	40	16
FP3	Final Pause at End of Cycle	[s]	0	60	0
6£3	Boiler Temperature Threshold: only for Cycle 3. This parameter allows having a different rinsing temperature for the third cycle. Only values above 45°C are allowed.	[°C]	0	95	0

drn Drain/Cleaning Cycle Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
ldr	Initial Drain Phase Duration	[s]	0	240	40
Fdr	Final Drain Phase Duration	[s]	0	240	60



8. OTHER PARAMETERS

dPR Dishwashing Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
1P8	Initial Pause before start washing (for ALL cycles)	[s]	0	10	0
dl 4	Delay for the 2 nd wash pump (PW only)	[s]	0	10	3
Pdr	Active a drain phase at the end of washing phase.	[s]	0	40	0
r	Duration of pause after rinse cycle (valid for dishwashers with door/hood lock device) [See par. 9.2 Medical line dishwasher with door/hood lock device].	[s]	0	60	0
[F	Celsius/Fahrenheit selection 0 = Celsius 1 = Fahrenheit	-	0	1	0
r it	Rinse Temperature Display. Enable rinse temperature probe (if installed). 0 = during rinse phase the display shows boiler temperature; 1 = during rinse phase the display shows rinse temperature;	-	0	1	0
PPL	Pulse Per Litre. This parameter must be settled in according to flow meter installed.	[p/l]	0	255	0
[dE	Number of wash cycles performable without detergent (only for dishwashers with external detergent level sensor – par. 9.2.1 Detergent and rinse aid level sensors activation) [$l \xi \xi z t$]	-	0	5	5
11 E	Pressure sensor threshold 1 [present up to software version 2.11].	-	0	255	140
185	Pressure sensor histeresis 1 [present up to software version 2.11].	-	0	255	50
216	Pressure sensor threshold 2 [present up to software version 2.11].	-	0	255	140
285	Pressure sensor histeresis 2 [present up to software version 2.11].	-	0	255	50

Note: *ILE*, *IME*, *ZLE*, *ZME* parameters emulates a two levels pressure switch, keep in mind that value doesn't correspond to a physical quantity.

ran Read Only Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
rEL	Main Board Firmware Release	-	-	-	-
r 1 S	Water softener board software version.	-	-	-	-
[8:;	When $[R]$ message appears, the parameter value becomes 1. After maintenance, to clear $[R]$ message, insert 0.	-	-	-	-
[8	When C B alarm appears, the machine is frozen and this parameter is 1. After maintenance (see alarm codes document), insert 0 to enable the machine.	-	-	-	-
F2	This alarm appears in case of malfunctioning in the continuous water softener. To facilitate fault-finding, see par. E "Alarm codes that stop the machine for models with incorporated continuous water softener".	-	-	-	-

HEP Communication and HACCP Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
58,	Serial Device 0 = 8N1 1 = PC connection (DAAS 8E1) 7 = HACCP network (ECAP 8E1+LK485) (LK485 board is necessary) 9 = Dishwashers with incorporated continuous water softener 16 = HACCP printer (8N1) 32 = MODEM GSM (DAAS 8N1) 33 = MODEM GSM (DAAS 8E1) 48 = Hyper Terminal (8N1)	_	0	63	1
Adr	Address. This parameter specifies the address of the appliance into the 'HACCP_network'. Works only if 'HACCP network' is selected (see above parameter).	-	0	255	1



Pra	Print parameter table.	-	0	1	1
68	HACCP 'Basic' (printer) Boiler temperature: high limit.	[°C]	45	95	90
6 <i>X</i>	HACCP 'Basic' (printer) Boiler temperature: gap below high limit.	[°C]	0	20	10
22	HACCP 'Basic' (printer) Tank temperature: high limit.	[°C]	35	75	68
FH	HACCP 'Basic' (printer) Tank temperature: gap below high limit.	[°C]	0	20	10

LFG Configuration Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
6 4 P	Dishwasher Model:				
	0 = HOOD TYPE & UNDERCOUNTER				
	1 = POT WASHER 2 = AUTOMATIC POT WASHER	-	0	3	0
	3 = MEDICAL LINE DISHWASHER WITH LOCK DOOR/HOOD				
	DEVICE				
601	Boiler type:				
	0 = ATMOSPHERIC BOILER 1 = PRESSURE BOILER	-	0	2	0
	2 = EXTERNAL BOILER				
daa	Door type:				
	0 = AUTOMATIC HOOD		0	2	
	1 = MANUAL HOOD 2 = FRONT LOADING		0	3	1
	3 = POT WASHER				
dFL	Default model (see Default tables):				
217 2	1 = HOOD TYPE	_	0	3	_
	2 = POT WASHER		0	5	-
	3 = UNDERCOUNTER				
tre	Solid State Relay (TRIAC). 0 = not enabled;				
	1 = SOFT START enabled;	-	0	3	0
	3 = SLOW SOFT START enabled		Ũ	5	Ū
	(works only on boards with Solid State Relay).				
6.5	Boiler/Tank heating swap:				
	0 = boiler heaters and tank heater can work simultaneously;				
	1 = swap enabled: tank heating starts only boiler temperature is		0		
	reached;	-	0	1	1
	(Note: disabling this function changes the global electrical power of appliance; before enabling this function check available power, supply cable				
	section, fuses in according to User Manual).				
66F	Tank Filling Mode				
<u>u</u> L '	Enable filling tank by means of rinsing cycles.				
	Ex: $b \xi \xi = 75$ means that boiler water is heated at 75°C, then follows a	[°C]	0	85	75
	rinse phase and so on until tank is full.				
	If $b \in F = 0$ the tank is filled by solenoid valve in the traditional way.				
185	Detergent Level Switches				
	0 = level switches not enabled;	-	0	1	0
	1 = enable detergent level switches;				
11	USER INTERFACE MODEL				
	8 = ACTIVE function disabled (up to version 3.11 [up to serial nr. (2100000] set to 0)				
	42100099] set to 0) 9 = hood type, under counter (up to version 3.11 [up to serial nr.				
	42100099] set to 1)				
	13 = LS5 with atmospheric boiler(up to version 3.11 [up to serial nr.	-	0	15	9
	42100099] set to 5)		0	15	,
	15 = LS5 with pressure boiler (user interface without display); (up to				
	version 3.11 [up to serial nr. 42100099] set to 7)				
	See parameter rEL (family ron) to check the software version				
	installed in the board.				
r E	Enable "regeneration cycle" key (only for dishwashers with non-continuous	-	0	1	0
	water softener) [See paragraph 9.1 resin regeneration cycle].		5	1	U
RL r	ALARMS ENABLE				
	0 = alarms disabled (to disable also warnings see b \boldsymbol{i} a and b \boldsymbol{i} a);		0	1	1
	1 = alarms enabled; If this function is dischlad, foults can be detected as display do not shows.	-	0	1	1
	If this function is disabled, faults can be detected so display do not shows any alarm code.				
	any marm couc.				



-

Air gap with float level sensor.

0 1 0

dbG Parameters for automatic hood type dishwashers

S	ym.	Parameter Description	Unit	Min	Max	Factory Default
Ł	1	DELAY_K1 Time (during hood lifting) within which S3" must return to the rest position.	0.1 s	0.0 s.	20.0 s	15
Ł	2	HOOD_TOUT TIMEOUT – max. time allowed for complete hood opening/closing.	0.1 s	0.0 s.	20.0 s	200
Ł	3	DELAY_K1_S3 During hood lowering, firstly S3" must cut in and then after a time the bottom limit switch S3.	0.1 s	0.0 s.	20.0 s	15
Ł	4	DELAY_K Time within which K and K' must be both closed or both open.	0.1 s	0.0 s.	20.0 s	10
Ł	5	DELAY_S3 Time during hood lifting within which the bottom limit switch must return to the rest position	0.1 s	0.0 s.	20.0 s	20
Ł	8	DELAY_S5 Time during hood lowering within which the top limit switch must return to the rest position.	0.1 s	0.0 s.	20.0 s	20
88		Displays the last alarm code relative to automatic hood type dishwashers.	-	-	-	-
11	: h	Parameter only valid for hood type models. Hood lifting motor absorption threshold. (50 units correspond to a current of approx. 1 ampere).	-	0	250	100
51	n	Parameter for the implementation of new characteristics [present up to software version 3.12].	-	0	1	0



9. SPECIAL FEATURES

9.1 RESIN REGENERATION CYCLE



The regeneration cycle is activated by pressing the button shown in the figure, for at least 5 seconds.

For this key to be enabled parameter $r \in \mathcal{E}$ (in family $\mathcal{L} \in \mathcal{L}$) must be set to 1.

At this point you can enter the number of wash cycles that can be performed after each regeneration: parameter $r \downarrow J$ in the counters family $\lfloor r \downarrow \rfloor$. If $r \downarrow J$ is set to zero the counter is disabled, otherwise after the preset number of cycles the message $r \not \downarrow J$ is displayed to confirm that regeneration is possible (this is an information-only message with no effect on operation of the appliance, so you can continue to use the dishwasher). The message is cleared when the regeneration cycle is terminated.

The number of regeneration cycles performed can be checked by consulting the parameter nrE in the LnE family of counters.

When there are just 15 cycles remaining before the next regeneration cycle, at the end of the wash cycle the display shows the message **End** followed by **15**, at the end of the next wash cycle the display shows **End** and **14**, and so forth, i.e. the display informs the user of the number of wash cycles still available before resin regeneration is required.

Before starting the regeneration cycle remove the siphon spillway.

CAUTION: if the regeneration cycle is accidentally started, it can be switched off by pressing the button shown in the figure, for at least 5 seconds.

The hardness of the water exiting the softener can vary between 3°fH - 10 °fH / 1.7 °dH - 5.6 °dH / 2.1 °cH - 7 °cH.

9.2 MEDICAL LINE DISHWASHER WITH DOOR/HOOD LOCK DEVICE

The medical line dishwasher with door/hood lock device has a device that prevents door/hood opening for the entire duration of the work cycle.

For the door/hood lock to be active, the parameter $E \mathcal{B} \mathcal{B}$ (in the $\mathcal{L} \mathcal{F} \mathcal{G}$ family) must be set to \mathcal{B} .

The dishwasher door/hood is locked at the start of a wash cycle and is released at the end of the final pause after rinse. The wash compartment can be accessed by stopping the work cycle in progress, as the locking device is thus disabled.

A pause at the end of rinse can be set by means of the parameter r P R (in the d P R family). This parameter is common to all 3 wash cycles. The rinse water temperature is displayed during this pause. Another final pause in the cycle can be set by setting the parameters F P I, F P Z, F P Z. During the final pause the display shows the time remaining for completion of the cycle.

The door/hood lock device will be deactivated at the end of the final pause (**FP**, **FP**, **FP**, **FP**, **FP**, **P**).

For correct performance of the wash cycle the pause at the end of rinse and the final pause must assume the default values (see Prog 032 - 034 - 035).

9.3 DETERGENT AND RINSE AID LEVEL SENSORS ACTIVATION

By setting the parameter LES (in the LES family) to 1, management of the level sensors located inside the external detergent and rinse aid tanks is enabled. During the rinse phase, when the rinse aid inside the tank has finished, the message RI = 0 appears on the display.

When the detergent inside the tank is finished, the message dE = D is displayed and after a number of wash cycles equal to E dE (in the dPR family) the dishwasher inhibits the activation of other wash cycles. Therefore the detergent level in the tank must be restored.



9.4 DISHWASHER WITH INCORPORATED CONTINUOUS WATER SOFTENER

Dishwashers with incorporated continuous water softener have a continuous softener in the water circuit. By means of special resins, this device removes the calcareous substances from the feed water, supplying decalcified water for washing. To activate the continuous water softener set the parameter SEr (in the HEP family) to the value S.

For the continuous softener to work properly the resins must be regenerated periodically, with frequency depending on the hardness of the water and the number of wash cycles carried out. Unlike conventional water softeners, this continuous softener does not require machine stops for regenerating the resins.

To regenerate the resins it is necessary to put kitchen salt in the special container located in the dishwasher. In particular, the salt container must be filled when the dishwasher is used for the first time and whenever the message 5 RL 0 is displayed at the start of a wash cycle. The salt container holds up to 1.5 kg of salt.

IMPORTANT: The message 582 2 may appear for several wash cycles even after topping-up the salt, as the salt must circulate in the entire system. Correct operation of the dishwasher is not, however, affected.

The number of regeneration cycles performed can be checked by consulting the parameter nrE in the inE family of counters.

The hardness of the water exiting the softener can vary between 3°fH - 10 °fH / 1.7 °dH - 5.6 °dH / 2.1 °cH - 7 °cH.



MAIN BOARD CONFIGURATION 10.

When receiving an electronic board (spare part) may be necessary to configure it in according to the machine where has to be replaced.

- With the machine CODE enter into the following table and read the corresponding Prog. number; 1.
- Follow the instructions reported into the corresponding Prog.XXX sheet (next pages). With the machine **CODE** find the **Layout** number in Par. 12.2 Connectors layout. 2.
- 3.

10.1. CODE→Prog. TABLE

MODEL	CODE	Prog.	Layout	MODEL	CODE	Prog.	Layout
WT4	400007	021	11	LS6EA/60	502041	011	8
WT4B	400008	020	8	WT 38DD	502110	046	8
WT4D	400009	021	11	WT 37	502111	046	8
WT4DB	400015	020	8	WT 38	502112	046	8
WT46	400016	020	8	WT 37/4.5	502117	046	8
WT4G	400017	022	8	WT 38/4.5	502118	046	8
WT4DG	400018	022	8	WT 37/UK	502122	046	8
WT4WS1	400019	024	11	WT38C	502125	033	8
WT4BWS	400027	012	8	WT38C60	502126	033	8
WT4DWS1	400028	024	11	WT38CUK	502127	033	8
WT4BDWS	400029	012	8	WT 38/UK	502217	046	8
WT4D60	400042	021	11	WT37J60	502218	046	8
LS5/1	400100	021	11	WT37J50	502219	046	8
LS5/1 DP	400102	021	11	LS6AH240U	502312	027	9
LS5/1WS	400103	024	11	WT30H208U	502313	031	9
LS5/1WSDP	400110	024	11	WT30H240U	502314	031	9
LS5/3	400112	020	8	WT30H208DU	502315	031	9
LS5/3 DP	400113	020	8	WT30H240DU	502316	031	9
LS5/3WS	400114	012	8	WT30H208RU	502317	031	9
LS5/3WSDP	400115	012	8	WT30H240RU	502318	031	9
LS5/3WSDPD	400117	012	8	LS6H208DU	502319	027	9
LB5G	400118	022	8	LS6AH208U	502320	027	9
LB5GDP	400119	022	8	WT 38/60	502321	046	8
LS5/1DP60	400124	021	11	WT 38/M60	502322	015	9
LS5/1DPAUS	400125	036	11	WT 38MED	502323	014	8
LS6EP	502003	013	8	LS6H240DU	502325	027	9
LS6EP/DD	502004	013	8	LS6H208RU	502326	027	9
LS6EA/DD	502005	011	8	LS6H240RU	502327	027	9
LS6EA/DD/DP	502006	011	8	WT30M208U	502328	034	10
WT38TDE	502007	032	10	WT30M240U	502329	034	10
WT38/M50	502008	015	9	WT30M208DU	502339	034	10
LS6EADPWS	502014	044	8	WT30M240DU	502341	034	10
LS6EADPWSG	502015	044	8	WT30M208RU	502342	034	10
WT38WS	502016	048	8	WT30M240RU	502343	034	10
WT38WSG	502017	048	8	WT30C208DU	502344	038	9
WT38MEDWS	502018	045	8	WT30C240DU	502345	038	9
WT38PM50	502019	039	9	WT38PM60	502346	039	9
WT37LEV/9	502020	033	8	WT38M60/4	502347	015	9
WT38M50/4	502029	015	9	LS6EA	502520	011	8
LS6EA/UK	502030	011	8	LS6EA/DP	502521	011	8
LS6EA/UKDP	502031	011	8	LS6EAH	502523	011	8



Electronic Dishwasher SERVICE MANUAL

MODEL	CODE	Prog.	Layout	MODEL	CODE	Prog.	Layout
	502524	033	8	LS 12 AU	504163	004	<u>1</u>
LU7PDP	503020	040	9	LS 12 UK DP CW	504164	001	1
LU7ADP	503021	041	9	ECOTEMP 12 SW	504165	001	1
WTU40PDP	503023	040	9	WT65EBI	504166	001	4
WTU40ADP	503024	047	9	WT65EBIA	504167	004	4
LS 10	503024	002	1	WT65EIA	504168	004	1
LS14EA	504100	002	4	WT65E60	504169	001	1
LS 10 UK DP	504102	002	1	WT65EB60	504170	001	4
ET12E	504102	002	1	WT 60 U/400	504171	006	-
LS 10/60Hz	504105	003	1	WT 60 U/440	504172	006	
LS 10/00/12 LS 10 CW	504107	002	1	WT65EBIDG	504172	000	4
			1				4
LS 10 INS	504108	002		WT65EBASIA	504174	009	
HT 1200 ins DEK	504109	001	1	WT65EIM50	504175	006	2
LS14EA/INS	504110	001	4	WT65EIM60	504176	006	2
LS 10 N	504111	002	1	WT 60 MX 220/60 LS 12 CW INS	504177	001	1
LS 10 DP	504114	002	1		504178	001	1
LS 10 HD	504115	008	1	LS14ADP/G	504179	001	4
LS14EA/AU	504116	004	4	WT65MED	504180	010	4
LS14EA/60	504117	001	4	WT65EJ50	504183	001	1
LS 10 UK1	504118	002	1	WT65EJ60	504186	001	1
LS 10 UK3	504119	002	1	LS14AH240U	504187	028	3
LS 12 INS	504120	001	1	WT65H208U	504188	028	3
LS 12	504121	001	1	WT65H240U	504189	028	3
LS 12 DP	504122	001	1	LS 12 ASIACW	504190	009	1
LS 12 60Hz	504125	001	1	WT 60 ASIACW	504191	009	1
LS 12 CW	504128	001	1	LS 12 ASIANB	504192	009	
HT 1200 DEK	504129	001	1	WT60ASIANB	504193	009	
LS14EA/ASIA	504131	009	4	LS14H208DU	504194	028	3
LS14EA/G	504133	001	4	LS14AH208U	504195	028	3
WT 60 DP	504134	001	1	LS14H240DU	504196	028	3
WT 60	504135	001	1	LS14H208RU	504197	028	3
WT 60 CW	504136	001	1	LS14H240RU	504198	028	3
WT 60 UK DP CW INS	504137	001	1	WT65H208DU	504199	028	3
WT 60 INS	504138	001	1	WT65H240DU	504200	028	3
WT 60 CW INS	504139	001	1	WT65H208RU	504201	028	3
WT 60 AU CW	504140	004	1	WT65H240RU	504202	028	3
WT 60 AU N	504141	004	1	WT65M208U	504203	035	12
LS10EA	504142	002	4	WT65M240U	504204	035	12
WT 60/60HZ	504145	001	1	WT65M208DU	504205	035	12
WT 60/60HZ CW	504146	001	1	WT65M240DU	504206	035	12
WT 60 N	504151	001	1	WT65M208RU	504207	035	12
WT 60 N INS	504152	001	1	WT65M240RU	504208	035	12
LS 12 HD	504153	007	1	LS14EAWS	504209	042	4
LS14EA/DD	504155	001	4	LS14ADPWSG	504210	042	4
WT65E	504156	001	1	LS14EAIWS	504211	042	4
WT65EB	504157	001	4	WT65EBWS	504212	042	4
WT65EI	504158	001	1	WT65BIDWSG	504213	042	4
WT 60 AU DP	504159	004	1	WT65EBIWS	504214	042	4
LS 12 UK/3 CW	504161	001	1	WT65MEDWS	504215	043	4
WT 60 UK CW	504162	001		LS9P	505022	019	6



Electronic Dishwasher SERVICE MANUAL

MODEL	CODE	Prog.	Layout	MODEL	CODE	Prog.	Layout
LS9P DD	505033	019	6	LD5	690014	020	8
LS9A UK	505034	018	6	FL 620EP	698003	013	8
LS9P60	505035	019	6	ET5EDG	698004	023	8
WT55P	505038	019	6	LV6EP	698006	013	8
WT55P6	505039	019	6	H3300	698007	029	8
LS9ADG1	505041	018	6	H2500	698008	019	6
WT55ADG1	505042	018	6	H3500	698009	001	4
LS9PAUS	505043	019	6	ET5EDCW	698010	016	8
WT55PM50	505044	019	13	LV6EADPWS	698011	048	8
WT55PM60	505045	019	13	HT1200WS	698012	042	4
PPW1 M	506010	005	7	HT1200IWS		042	4
PPW1 M UK	506011	005	7	FL620ADPWS	698013 698014	042	8
PPW1 60 Hz	506012	005	7	H1310SANA	698016	030	8
PPW1 MH	506012	005	7	H1510SANA	698017	030	4
PPW2 M	506014	005	7	LV1200IWS		010	4
PPW2 M UK	506015	005	7	HT900P	698018	042	4 6
PPW2 60 Hz	506016	005	7		698022		-
PPW2 V	506017	005		LV900P	698023	019	6
WT830 M	506018	005	7	LD900	698024	019	6
WT830 M UK	506019	005	7	LU700PDP	698033	040	9
			7	LU700ADP	698034	047	9
WT830 60 Hz	506020	005		PW100 M	698040	005	7
WT850 M	506022	005	7	PW200 M	698041	005	7
	506023	005	7	PW200 V	698042	005	7
WT850 60 Hz	506024	005	7	PW100 MH	698043	005	7
WT850 V	506025	005	_	LV100M	698044	005	7
WT830 MH	506026	005	7	LV200M	698045	005	7
WT830EA	506215	017	5	HT 1200	698050	001	4
WT850EA	506216	017	5	HT 1000	698051	002	4
WT830EAG	506217	017	5	HT 1000 INS	698052	002	1
WT850EAG	506218	017	5	HT 1200 INS	698053	001	4
WT830M208U	506029	037	3	HT 1200 DP	698055	001	1
WT830M240U	506030	037	3	ET12EIG	698056	026	3
WT830H208U	506031	037	3	ET12EI	698057	025	1
WT830H240U	506032	037	3	LV1000	698059	002	4
WT850M208U	506033	037	3	LV1200INS	698060	001	4
WT850M240U	506034	037	3	ET12EICWG	698061	001	3
PW1M208U	506035	037	3	ET12EICW	698062	025	3
PW1M240U	506036	037	3	FL 620EA	698070	046	8
PW1MH208U	506037	037	3	FL 620EADP	698071	046	8
PW1MH240U	506038	037	3	ET5E	698076	016	8
PW2M208U	506039	037	3	ET5ED	698077	016	8
PW2M240U	506042	037	3	FL 620EP/DD	698078	013	8
FL5	690004	020	8	FL 620EA/DD	698079	046	8
FL5DP	690005	020	8	FL 620EADP/DD	698080	046	8
LV5	690006	020	8	LV6EA	698080	046	8
LV5DP	690007	020	8	LV6EADP	698082	046	8
LV5/3WSDP	690008	012	8	LV6EADP LS10 INS DP			0
FL5/3WSDP	690009	012	8		\$36220	002	
UC5/1DP	690010	021	11	LS 10 INS	S37858	002	
UC5/1WSDP	690011	024	11	LS 10	S39968	002	
LD5DP	690013	020	8	LS 10/fiera	S42549	002	1

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MODEL	CODE	Prog.	Layout	MODEL	CODE	Prog	Layout
LS 10 INS	S43062	002		WT 60	S47CCY	001	
LS 10	S43327	002		WT 60 CW	S47CEA	001	
HT 1000	S475CH	002		WT 60/9	S47CEH	001	
LS 10 CW	S47APN	002		WT 60/9	S47CEI	001	
LS 10 CW	S47CF5	002		WT 60	S47CKD	001	
LS 10 CW	S47DU4	002		LS 12 CW	D04713	001	
LS 10 CW	S47DU7	002		LS 12 CW	S34369	001	
LS 10 CW	S47DUA	002		WT 60 giappone	S34377	001	
LS 10 CW	S47DUF	002		WT 60 giappone	S34378	001	
LS 10 CW	S47E17	002		WT 60 giappone	S35178	001	
LS 10 CW	S47E2C	002		WT 60 giappone	S35179	001	
LS 10 CW	S47E2H	002		LS 12 CW	S35246	001	
LS 10 CW	S47E2M	002		HT1200	S35330	001	
LS 10 CW	S47E2R	002		WT 60 giappone	S36384	001	
LS 10 UK1	S47E50	002		WT 60 giappone	S36385	001	
LS 10 CW	S47E6M	002		LS 12 CW	S36846	001	1
HT1200	S46002	002		LS 12 CW	S36847	001	
WT 60 CW INS	S46880	001		HT1200	S39964	001	
HT 1000	S4734M	001		HT1200	\$40472	001	
WT 60/9	S47539	002		ECOTEMP 12	S40472 S40785	003	
WT 60/9	S47560	001		WT 60/9 INS	S40785	003	
WT 60/9 WT60 INS	S4756P S475GJ	001		HT1200	S41185	001	
WT60 INS	S475GY	001		LS 12 INS	S42032	001	
WT 60 CW	S476HA	001		WT 60/60HZ	S42170	001	
LS 12 HD	S4775E	007		LS 12/fiera	S42550	001	
HT1200	S4777U	001		WT 60/60HZ	S42617	001	
LS 12 CW INS	S477BM	001		WT 60 N	S43119	001	
WT 60 AU CW	S477JR	004		LS12 CW	S43488	001	
WT 60 INS				LS 12 INS	S43563	001	
	S477M1	001		LS 12 DP CW	S43734	001	
WT 60 INS	S477M1	001		LS 12 CW	S43806	001	
WT 60 N INS	S477MB	001		LS 12 CW	S43830	001	
WT 60/60HZ DP	S477QB	001		WT 60 CW INS	S44421	001	
LS 12 CW INS	S477V7	001		LS6EA	S477BL	011	
WT 60 DP	S47811	001		WT 37	S4784U	011	
WT 60/9	S4781D	001		LS6EA	S4787B	011	
WT 60/60HZ DP	S4781I	001		FL 620EA	S478BN	011	
WT 60/9 INS	S4786P	001		WT830 MH	S46881	005	
WT 60 U/230	S478KF	006		PPW1 M	S4758V	005	
LS 12 CW INS	S478LV	001		WT830 MH	S476YZ	005	
WT 60 CW INS	S478SP	001		PPW1 MH	S477IT	005	
LS 12 CW INS	S479VE	001		WT830 M	S479QS	005	
WT 60	S479Z3	001		PPW1 M UK	S47BKQ	005	
WT 60	S479Z9	001		WT 60 CW INS	S47CPB	001	
WT 60 AU CW	S47AP80	004		WT 60 CW INS	S47CQS	001	
LS 12 CW	S47APP	001		ECOTEMP 12 SW	S47CVG	001	
HT 1200	S47B9I	001		ECOTEMP 12 SW	S47CVH	001	
LS 12 UK/3 CW	S47BJI	001		WT 60 CW INS	S47D9Y	001	1
LS 12 CW	S47C1Z	001		WT 60	S47DCA	001	1
WT 60 CW	S47C6B	001		LS 12 CW	S47DE0	001	
LS 12 CW	S47CCS	001					L

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MODEL	CODE	Prog	Layout
LS 12 CW	S47DMM	001	
WT 60	S47DSK	001	
WT 60	S47DWC	001	
WT 60	S47DWD	001	
PPW1 MH	S47C37	005	
PPW1 MH	S47DE1	005	
WT850 M	S43016	005	
PPW2 M	S44099	005	
PPW2 M	S44399	005	
PPW2 M	S45958	005	
PPW2 M	S47BW4	005	
WT850 M	S47CFG	005	
PPW2 M	S47CZ1	005	



10.2. PROGRAMMING SHEETS

L	S12 – L	S14	/ WT60 - 65	Prog. 001		
1.	Switch OFF ar	nd then	switch ON the machine.			
2.	EFG Enter	into CF	G parameter family and set the following	parameters.		
	1	8	Hood Type like working cycles.			
	601	0	Atmospheric boiler.			
	daa	1	Manual Hood.			
	dFL	1	Default values for Hood Type models.			
	tre	0	(for this appliance SOFT START is NOT possible).			
	6.5	1	Tank heater works only if boiler temperature reached.			
	62F	75	Enable filling tank by means of rinsing cycles.			
	185	1	Detergent level switches not enabled.			
	11	9	Select user interface hood type model (up to version 3.1	1 set to <i>i</i>).		
	r E	0	Regeneration cycle disabled.			
	AL r	1	Alarms enabled.			
3.	Switch OFF ar	nd then	switch ON the machine.			
4.	Modify Factory	Modify Factory parameters:				
	FRE Facto	ry para	meters family			
	62I	78	Boiler Temperature Threshold.			
5.	Switch OFF ar	nd then	switch ON the machine.			



L	_S10			Prog. 002				
1.	Switch OFF	and ther	n switch ON the machine.	•				
2.	[FG Enter	r into CF	G parameter family and set the following para	ameters:				
	6 3 P	0	Hood Type like working cycles.					
	601	8	Atmospheric boiler.					
	daa	1	Manual Hood.					
	dFL	1	Default values for Hood Type models.					
	tre	8	(for this appliance SOFT START is NOT possible).					
	6.6	1	Tank heater works only if boiler temperature reached.					
	62F	75	Enable filling tank by means of rinsing cycles.					
	185	_	Detergent level switches not enabled.					
	11	9	Select user interface hood type model (up to version 3.11 set to f).					
	rE	8	Regeneration cycle disabled.					
	AL r	1	Alarms enabled.					
3.	Switch OFF	and ther	n switch ON the machine.					
4.	Modify Facto	ory parar	neters:					
			ameters family					
	66	<u>T 78</u>	Boiler Temperature Threshold.					
5.	Modify Cycle	•	eters:					
	EHI Cycle	e 1						
	56 8	1 45	Short Wash Phase [s]					
	ESE Cycle	e 2						
	Lnc	, ,	Long Wash Phase [min]					
	She	' 40	Short Wash Phase [s]					
6.	Switch OFF	and ther	n switch ON the machine.					



E	ECOTEMP12 Prog. 003								
1.	Switch OFF	and then s	switch ON the machine.						
2.	[<i>FG</i> Er	nter into CF	G parameter family and set the following parame	eters:					
	6 5	IP O	Hood Type like working cycles.						
	60	n - 0	Atmospheric boiler.						
	de	na l	Manual Hood.						
	df	1	Default values for Hood Type models.						
	k r	'c 🛙	(for this appliance SOFT START is NOT possible).						
	b .	.t 0	Boiler heaters and tank heater work simultaneously						
	66		The tank is filled into the traditional way.						
	18	-	Detergent level switches not enabled.						
	Ľ	; 9	Select user interface hood type model (up to version 3.11 set to	o i).					
	r 8	8	Regeneration cycle disabled.						
	RL	r 1	Alarms enabled.						
3.	Switch OFF	and then s	switch ON the machine.						
4.	Modify Fac	tory parame	eters:						
	FRE Fa	actory parar	neters family						
	6	EC 85	Boiler Temperature Threshold.						
	6	RJ Z	Boiler Temperature Adjust.						
5.	Switch OFF	and then s	switch ON the machine.						



LS12 AU / WT60 - 65 AU

Prog. 004

1.	Switch	OFF and	then sv	witch ON the machine.
2.	[}[Enter into	o CFG	parameter family and set the following parameters:
		ŁЧР	8	Hood Type like working cycles.
		60 1	0	Atmospheric boiler.
		daa	0	Automatic Hood.
		dFL	1	Default values for Hood Type models.
		tre	8	(for this appliance SOFT START is NOT possible).
		6.6	1	Tank heater works only if boiler temperature reached.
		62F	75	Enable filling tank by means of rinsing cycles.
		185	0	Detergent level switches not enabled.
		U 1	9	Select user interface hood type model (up to version 3.11 set to 1).
		r E	0	Regeneration cycle disabled.
		AL r	1	Alarms enabled.
3.	Switch	OFF and t	then sv	witch ON the machine.
4.	Modify	Factory pa	aramet	iers:
	FRE	Factory p	barame	eters family
		67 E	78	Boiler Temperature Threshold.
5.	Modify	the other	param	eters:
	[]]	Cycle 1		
		FP {	2	Final Pause [s]
	[72	Cycle 2		
		FPZ	2	Final Pause [s]
	[43	Cycle 3		
		FP3	2	Final Pause [s]
	dPR	Dishwasl	hing pa	arameters family.
		128	2	Initial Pause
6.	Switch	OFF and t	then sv	witch ON the machine.
L	1			



PW 1 - 2 / WT830 - 850 Prog. 005 Switch OFF and then switch ON the machine. 1. [F[2. Enter into CFG parameter family and set the following parameters: EYP 1 Pot Washer. 0 601 Atmospheric boiler. 2 daa Front loading function. dFL 2 Default values for Pot Washer models. [] tre (for this appliance SOFT START is NOT possible). 6.6 1 Tank heater works only if boiler temperature reached. 1 62F The tank is filled into the traditional way. LES [] Detergent level switches not enabled. 111 9 Select user interface hood type model (up to version 3.11 set to 4). r E 1 Regeneration cycle disabled. AL r 1 Alarms enabled. Switch OFF and then switch ON the machine. 3. 4. Modify Factory parameters: FAC Factory parameters family 68T 78 Boiler Temperature Threshold. Switch OFF and then switch ON the machine. 5.



WT60 - 65 USPH Prog. 006 Switch OFF and then switch ON the machine. 1. [F[2. Enter into CFG parameter family and set the following parameters: LYP [] Hood Type like working cycles. 0 60 1 Atmospheric boiler. daa 1 Manual Hood. dFL 1 Default values for Hood Type models. 0 tre (for this appliance SOFT START is NOT possible). 6.6 1 Tank heater works only if boiler temperature reached. bbF 75 Enable filling tank by means of rinsing cycles. 185 1 Detergent level switches not enabled. 9 111 Select user interface hood type model (up to version 3.11 set to 7). r E 0 Regeneration cycle disabled. RL r 1 Alarms enabled. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAC Factory parameters family 67 E 78 Boiler Temperature Threshold. 5. Modify the cycle parameters: [41 Enter into Cycle 1 parameters family. 25 rit Rinse Phase Duration [s] dr l **25** Drain [s] [42 Enter into Cycle 2 parameters family. اتي م 25 Rinse Phase Duration [s] dr 2 **25** Drain [s] [4 3 Enter into Cycle 3 parameters family. 25 r 3 Rinse Phase Duration [s] dr 3 25 Drain [s] Select Fahrenheit : 6. dPA Enter into Dishwashing parameter family. Ľ F 1 Select Fahrenheit degrees. 6. Switch OFF and then switch ON the machine.



Т

L	S12F	HD			Prog. 007		
1.	Switch OFF and then switch ON the machine.						
2.	[F[Enter in	to CFC	parameter family and set the following parame	eters:		
		ŁУР	8	Hood Type like working cycles.			
		60 1	0	Atmospheric boiler.			
		daa	1	Manual Hood.			
		dFL	1	Default values for Hood Type models.			
		tre	8	(for this appliance SOFT START is NOT possible).			
		6.6	1	Tank heater works only if boiler temperature reached.			
			75	Enable filling tank by means of rinsing cycles.			
		185	0	Detergent level switches not enabled.			
G Select user interface hood type model (up to version 3.1					b .		
r E D Regeneration cycle disabled.				Regeneration cycle disabled.			
		Al,	1	Alarms enabled.			
3.	Switch (OFF and t	hen sv	vitch ON the machine.			
4.	-	the cycle parameters:					
	[4 1	Enter into Cycle 1 parameters family.					
		Pr 1					
		dr i	38	Drain [s]			
	[42	Enter into Cycle 2 parameters family.					
		PrZ		Pre-rinse Duration [s]			
		dr 2	38	Drain [s]			
	[7 3	Enter inf		e 3 parameters family.			
		Pr 3	20	Pre-rinse Duration [s]			
		dr 3	38	Drain [s]			
5.	Switch OFF and then switch ON the machine.						

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Ľ	S10F	Prog. 008					
1.	Switch OFF and then switch ON the machine.						
2.	EFG Enter into CFG parameter family and set the following parameters:						
		1 y P	8	Hood Type like working cycles.			
		boı	0	Atmospheric boiler.			
		daa	1	Manual Hood.			
		dFL	1	Default values for Hood Type models.			
		trc	1	(for this appliance SOFT START is NOT possible).			
		6_6	1	Tank heater works only if boiler temperature reached.			
		66F	75	Enable filling tank by means of rinsing cycles.			
		185	0	Detergent level switches not enabled.			
		LI 1	9	Select user interface hood type model (up to version 3.11 set to	ь ђ .		
		r E	0	Regeneration cycle disabled.			
		RL r	1	Alarms enabled.			
3.	Switch C	witch OFF and then switch ON the machine.					
4.	Modify th	the cycle parameters:					
	[]]	Y I Enter into Cycle 1 parameters family.					
		5h 1	45	Short Wash Phase [s]			
		Pr (20	Pre-rinse Duration [s]			
		dr l	36	Drain [s]			
	Enter into Cycle 2 parameters family.						
		Lal	1	Long Wash Phase [min]			
		ShZ	40	Short Wash Phase [s]			
			20	Pre-rinse Duration [s]			
		dr 2	36	Drain [s]			
5.	Switch OFF and then switch ON the machine.						

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LS12 - 14 / WT60 - 65 ASIA

Prog. 009

1.	Switch OFF and then switch ON the machine.						
2.	[FG	Enter into CFG parameter family and set the following parameters.					
		£ 4P	0	Hood Type like working cycles.			
		601	0	Atmospheric boiler.			
		daa	1	Manual Hood.			
		dFL	1	Default values for Hood Type models.			
		tre	0	(for this appliance SOFT START is NOT possible).			
		6.6	1	Tank heater works only if boiler temperature reached.			
	bbF 75 Enable filling tank by means of rinsing cycles.						
	LES D etergent level switches not enabled.						
		U 1	9	Select user interface hood type model (up to version 3.11 set to <i>i</i>).			
		r E	0	Regeneration cycle disabled.			
		Alr	1	Alarms enabled.			
3.	Switch O	witch OFF and then switch ON the machine.					
4.	Modify Fa	Factory parameters:					
	FAL	Factory parameters family					
		68I	78	Boiler Temperature Threshold.			
		5 <i>P</i>	0	Boiler Priority Disabled			
5.	Switch OFF and then switch ON the machine.						



Prog. 010 WT65MED Switch OFF and then switch ON the machine. 1. [FG 2. Enter into CFG parameter family and set the following parameters: ŁЧР 0 Hood Type like working cycles. 0 60 1 Atmospheric boiler. [] daa Automatic Hood. dFL 1 Default values for Hood Type models. 0 tre (for this appliance SOFT START is NOT possible). 6.6 1 Tank heater works only if boiler temperature reached. hhF 75 Enable filling tank by means of rinsing cycles. 185 [] Detergent level switches not enabled. 111 9 Select user interface hood type model (up to version 3.11 set to 4). r E 0 Regeneration cycle disabled. AL r 1 Alarms enabled. Switch OFF and then switch ON the machine. 3. 4. Modify Factory parameters: FAC Factory parameters family 68T 90 Boiler Temperature Threshold. 0 64 . Disable boiler high Temperature alarm ($\boldsymbol{\zeta} \in \boldsymbol{Z}$). [] 684 Boiler Temperature Adjust. 1 65k Booster Function. EH 1 85 Tank high Temperature limit. 5. Modify the cycle parameters: [4] Cycle 1 parameters family. Lal 2 Long Wash Phase [min] 561 32 Short Wash Phase [s] Rinse Phase Duration [s] r 11 dr l 40 Drain [s] FP { 15 Final Pause [s] Cycle 2 parameters family. Lnz 3 Long Wash Phase [min] 542 32 Short Wash Phase [s] r 12 35 Rinse Phase Duration [s] dr 2 40 Drain [s] FP2 15 Final Pause [s] [4 3 Cycle 3 parameters family. Enj 5 Long Wash Phase [min] 543 32 Short Wash Phase [s] r 3 35 Rinse Phase Duration [s] dr 3 40 Drain [s] FP3 15 Final Pause [s]



WT65MED						Prog. 010
	Set other parameters.					
		1P A	식	Initial Pause [s]		
6.	Switch OFF and then switch ON the machine.					

LS	LS6 6000W ATM Prog. 011							
1.	Switch OFF and	d then	switch ON the machine.					
2.	LFL Enter into CFG parameter family and set the following parameters.							
	1 4 4 P	0	Hood Type like working cycles.					
	601	0	Atmospheric boiler.					
	daa	daa 2 Front loading.						
	dFL	3	Default values for Undercounter models.					
	SOFT START ENABLED.							
	6.6	1	Tank heater works only if boiler temperature reached.					
	66F	Example 75 Enable filling tank by means of rinsing cycles.						
	LES Detergent level switches not enabled.							
U I S Select user interface hood type model (up to version 3.11 set to I).								
	r E	0	Regeneration cycle disabled.					
	RL r	1	Alarms enabled.					
3.	Switch OFF and then switch ON the machine.							



Prog. 012 LS5WS / WT4WS TRIPHASE Switch OFF and then switch ON the machine. 1. [FG 2. Enter into CFG parameter family and set the following parameters. ŁЧР [] Hood Type like working cycles. 60 1 [] Atmospheric boiler. 2 daa Front loading door type. dFL 3 Default values for Undercounter models. 1 tre SOFT START ENABLED. 6.6 1 Tank heater works only if boiler temperature reached. hbf 75 Enable filling tank by means of rinsing cycles. 185 1 Detergent level switches not enabled. 111 13 Select user interface for LS5 (up to version 3.11 set to 5). r E 1 Regeneration cycle enabled. AL r 1 ALARMS ENABLED. Switch OFF and then switch ON the machine. 3. Modify Factory parameters: 4. FAC Enter into FAC parameter family. 66T 83 Boiler Temperature Threshold. 681 2 Boiler Temperature Adjust. 656 2 Booster Function. Modify the cycle parameters: 5. [43 Cycle 3 parameters family. End 1 Long Wash Phase [min] 563 40 Short Wash Phase [s] Switch OFF and then switch ON the machine. 6. Modify Detergent dosage: 7. <u>GEn</u> Enter into GEn parameter family. din 70 Initial Detergent Dosage [s]. 5 r In Initial Rinse Aid Dosage [s]. Ent Counters 8. r[H20 Number of cycles allowed before regeneration. 9. Switch OFF and then switch ON the machine.



LS6 PRESS Prog. 013							
1.	Switch	OFF and the	nen sw	vitch ON the machine.			
2.	[F[Enter into	CFG	parameter family and set the following parameter	ers.		
		1	0	Hood Type like working cycles.			
		601	1	Pressure boiler.			
		daa	2	Front loading.			
		dFL	Default values for Undercounter models.				
		tre					
		6.6					
		66F	The tank is filled into the traditional way.				
		185					
		LI 1	ACTIVE function disabled (up to version 3.11 set to \square).				
		r E	Regeneration cycle disabled.				
		RL r	1	Alarms enabled.			
3.	Switch OFF and then switch ON the machine.						
4.	Modify Factory parameters:						
	FRE	Enter into	FAC p	parameter family and change boiler threshold.			
	Bell 85 Boiler Temperature Threshold.						
5.	Switch OFF and then switch ON the machine.						



V	VT38	B ME	D		Prog. 014
1.		OFF and	I then s	witch ON the machine.	
2.	[F []			G parameter family and set the following parame	eters.
		1 y P	8	Hood Type like working cycles.	
		601	8	Atmospheric boiler.	
		daa	2	Front loading.	
		dFL	3	Default values for Undercounter models.	
		tre	1	SOFT START ENABLED.	
		6.6	1	Tank heater works only if boiler temperature reached.	
		66F	75	Enable filling tank by means of rinsing cycles.	
		185	8	Detergent level switches not enabled.	
		<u>U 1</u>	8	ACTIVE function disabled (up to version 3.11 set to 2).	
		r E	0	Regeneration cycle disabled.	
		RL r	1	Alarms enabled.	
3.	Switch	OFF and	I then s	witch ON the machine.	
4.		Factory p			
	FRE			parameter family and change boiler threshold.	
		68I	90	Boiler Temperature Threshold.	
		6H 1	0	Disable boiler high Temperature alarm (
		681	0	Boiler Temperature Adjust.	
		655	0	Booster function not needed.	
		btd	10	During stand-by boiler is kept at lower temperature than Tempe	erature Threshold.
		2 E E		Tub Temperature Threshold.	
		EH 1	85	Tank high Temperature limit.	
5.	,	the cycle	e param	eters:	
	[]]	-		eters family.	
		Lal	4	Long Wash Phase [min]	
		5h 1	10	Short Wash Phase [s]	
		rii	35	Rinse Phase Duration [s]	
		dr i	40	Drain [s]	
		FP (15	Final Pause at End of Cycle	
	[72	Cycle 2	2 param	eters family.	
		Lad	6	Long Wash Phase [min]	
		5h2	10	Short Wash Phase [s]	
		r 12	35	Rinse Phase Duration [s]	
		dr 2	40	Drain [s]	
		FPZ	15	Final Pause at End of Cycle	
	[4 3	Cycle 3	3 param	eters family.	
		Lng	9	Long Wash Phase [min]	
		5h3	10	Short Wash Phase [s]	
		r 13	35	Rinse Phase Duration [s]	
		dr 3	40	Drain [s]	
		FP3	15	Final Pause at End of Cycle	
6.	Switch	_			
6.	Switch	_		witch ON the machine.	



V	VT3() US	PH		Prog. 015
1.	Switch	OFF and	then s	witch ON the machine.	
2.	[F []	Enter ir	nto CFC	B parameter family and set the following parame	eters.
1		19 P	0	Hood Type like working cycles.	
		bai	8	Atmospheric boiler.	
		daa	2	Front loading.	
		dFL	3	Default values for Undercounter models.	
		tre	0	(for this appliance SOFT START is NOT possible).	
		6.6	1	Tank heater works only if boiler temperature reached.	
		66 F	75	Enable filling tank by means of rinsing cycles.	
		185	0	Detergent level switches not enabled.	
		U 1	8	ACTIVE function disabled (up to version 3.11 set to G).	
		r E	0	Regeneration cycle disabled.	
		RL r	1	Alarms enabled.	
3.	Switch	OFF and	then s	witch ON the machine.	
4.	-	Factory p	barame	ters:	
	FAC		nto FAC	parameter family and change boiler threshold.	
		62I	82	Boiler Temperature Threshold.	
		błd	3	During stand-by boiler is kept at lower temperature than Tempe	erature Threshold.
		65E	8	Booster Function not necessary.	
		2 E E	66	Tank Temperature Threshold.	
		EH 1	88	High limit for tank temperature.	
5.	-	the cycle	-		
	[]]	Cycle 1	param	eters family.	
		Lal	1	Long Wash Phase [min]	
		5h 1		Short Wash Phase [s]	
		ril	25	Rinse Phase Duration [s]	
		dr l	40	Drain [s]	
		FP {	4	Final Pause [s]	
1	[92		•	eters family.	
		LnZ	2	Long Wash Phase [min]	
		5h2	22	Short Wash Phase [s]	
		r 12	25	Rinse Phase Duration [s]	
		dr 2	40	Drain [s]	
		FP2	Ч	Final Pause [s]	
	[43	-	· · ·	eters family.	
		Enj	4	Long Wash Phase [min]	
		5h3	22	Short Wash Phase [s]	
		r 13	25	Rinse Phase Duration [s]	
		dr 3	40	Drain [s]	
		fp3	4	Final Pause [s]	



V	WT30 USPH Prog. 015							
	drn	n Drain parameters family.						
		ldr	30	Initial Drain Phase Duration [s]				
	dPR Set other parameters.							
		;P8	5	Initial Pause [s]				
		[F	1	Fahrenheit.				
6.	Switch OFF and then switch ON the machine.							



E	CO	TEMF	5		Prog. 016
1.	Switch	OFF and	then sv	vitch ON the machine.	
2.	[F []	Enter into	CFG	parameter family and set the following parameter	ers.
		1 y P	0	Hood Type like working cycles.	
		601	0	Atmospheric boiler.	
		daa	2	Front loading.	
		dFL	3	Default values for Undercounter models.	
		tre	1	SOFT START ENABLED.	
		6.6	0	Tank and boiler heaters work simultaneously.	
		62F	75	Enable filling tank by means of rinsing cycles.	
		185	0	Detergent level switches not enabled.	
		11	8	ACTIVE function disabled (up to version 3.11 set to $\boldsymbol{\mathcal{G}}$).	
		r E	0	Regeneration cycle disabled.	
		AL r	1	Alarms enabled.	
3.	Switch	OFF and	then sv	vitch ON the machine.	
4.	Modify	Factory pa	aramet	ers:	
	FRE	Enter into	FAC p	parameter family and change boiler threshold.	
		62[77	Boiler Temperature Threshold.	
		błd	3	During stand-by boiler is kept at lower temperature than Tempe	erature Threshold.
5.	Modify	the cycle	parame	eters:	
	[]]	-	-	ters family.	
		Lal	1	Long Wash Phase [min]	
			10	Short Wash Phase [s]	
		r (l	25	Rinse Phase Duration [s]	
		dr l	40	Drain [s]	
		FP {	4	Final Pause [s]	
	[42	Cvcle 2 p	arame	ters family.	
		Lnd	2	Long Wash Phase [min]	
		522	22	Short Wash Phase [s]	
		المحمد الم	25	Rinse Phase Duration [s]	
		drð	40	Drain [s]	
		FP2	4	Final Pause [s]	
	[43	_	-	ters family.	
		Lng	4	Long Wash Phase [min]	
		5h3	22	Short Wash Phase [s]	
		r i 3	25	Rinse Phase Duration [s]	
		dr 3	40	Drain [s]	
		FP3	4	Final Pause [s]	
	drn	Drain par	ameter		
		ldr	30	Initial Drain Phase Duration [s]	
	dPR	Set other			
		128	5	Initial Pause [s]	
6.	Switch			vitch ON the machine.	
υ.	Owner		01011-31		



V	VT8	T830EA / WT850EA Prog. 017							
1.	Switch	OFF and	then sv	vitch ON the machine.					
2.	[F []	Enter int	o CFG	parameter family and set the following parameter	ers.				
-		2 Y P	Ę	Automatic Pot Washer.					
		601	8	Atmospheric boiler.					
		daa	3	Automatic Pot Washer					
		dFL	2	Default values for Hood Type models.					
		tre	8	(for this appliance SOFT START is NOT possible).					
		8.8	1	Tank heater works only if boiler temperature reached.					
		62F	8	The tank is filled into the traditional way.					
		185	8	Detergent level switches not enabled.					
		<u>11</u> 1	9	Select user interface hood type model (up to version 3.11 set to	b .				
		r E	8	Regeneration cycle disabled.					
		AL r	1	Alarms enabled.					
3.	Switch	OFF and	then sv	vitch ON the machine.					
4.	Modify	the cycle parameters:							
	[4]	Cycle 1	parame	ters family.					
		Lal	2	Long Wash Phase [min]					
		5h 1 FP 1	29	Short Wash Phase [s]					
			5	Final Pause [s]					
	[42	· ·		ters family.					
		Lnč		Long Wash Phase [min]					
		5h2							
		FP2	5						
	[43	Cycle 3	parame	ters family.					
		Eng							
		553	29	Short Wash Phase [s]					
		FP3	5	Final Pause [s]					
5.	Switch	OFF and	then sv	vitch ON the machine.					



L	.S9 /	WT	55 /	АТМ	Prog. 018	
1.	Switch	OFF and	then sv	vitch ON the machine.		
2.	[F[Enter int	o CFG	parameter family and set the following paramet	ers.	
		£ 9P	8	Hood Type like working cycles.		
		601	8	Atmospheric boiler.		
		daa	1	Manual Hood.		
		dFL	1	Default values for Hood Type models.		
		tre	8	(for this appliance SOFT START is NOT possible).		
		6.6	1	Tank heater works only if boiler temperature reached.		
		62F	75	Enable filling tank by means of rinsing cycles.		
		185	8	Detergent level switches not enabled.		
		<u>U</u> 1	9	Select user interface hood type model (up to version 3.11 set to	o 1).	
		r E	0	Regeneration cycle disabled.		
		RL r	1	Alarms enabled.		
3.	Switch	OFF and	then sv	vitch ON the machine.		
4.	Modify	Factory p	aramet	ers:		
	FRE	Enter int	o FAC	parameter family and change boiler threshold.		
		62 [82	Boiler Temperature Threshold.		
		681	0	Boiler Temperature Adjust.		
		65E	1	Booster Function.		
5.	Modify	the cycle parameters:				
	[72	Cycle 2	Cycle 2 parameters family.			
		5h2	55	Short Wash Phase [s]		
	[43	Cycle 3	parame	ters family.		
		Eng	4	Long Wash Phase [min]		
	dPA	Set othe	r paran	neters.		
		1P8	5	Initial Pause [s]		
6.	Switch	OFF and	then sv	vitch ON the machine.		



L	.S9 /	′ WT5	5 F	PRESS	Prog. 019
1.	Switch	OFE and th	nen sv	vitch ON the machine.	
1. 2.				parameter family and set the following paramet	ors
2.	2,0	149P		Hood Type like working cycles.	615.
		6 J.	1	Pressure boiler.	
		daa	;	Manual Hood	
		dFL		Default values for Hood Type models.	
		tre	ũ	(for this appliance SOFT START is NOT possible).	
		6.5	-	Tank heater works only if boiler temperature reached.	
		62F	0	The tank is filled into the traditional way.	
		185	8	Detergent level switches not enabled.	
		11 1	9	Select user interface hood type model (up to version 3.11 set to	b 1).
		r E	8	Regeneration cycle disabled.	,
		RL r	1	Alarms enabled.	
3.	Switch	OFF and the	nen sv	vitch ON the machine.	
4.	Modify	Factory pa	ramet	ers:	
	FRE	Enter into	FAC	parameter family and change boiler threshold.	
		66T	84	Boiler Temperature Threshold.	
		681	0	Boiler Temperature Adjust.	
		656	1	Booster Function.	
5.	Modify	the cycle p	arame	eters:	
	[42	Cycle 2 pa	arame	eters family.	
		5h2	55	Short Wash Phase [s]	
	[43	Cycle 3 pa	arame	ters family.	
		Ln3	4	Long Wash Phase [min]	
6.	Switch	OFF and the	nen sv	vitch ON the machine.	



L	S5 / WT	4 Pi	RES	Prog. 020
1.	Switch OFF and	d then s	witch ON the machine.	
2.	EFG Enter i	into CF	G parameter family and set the following parame	eters.
	1 4 4 P	8	Hood Type like working cycles.	
	601	1	Pressure boiler.	
	daa	2	Front loading door type.	
	dFL	3	Default values for Undercounter models.	
	tre	1	SOFT START ENABLED.	
	6.6	1	Tank heater works only if boiler temperature reached.	
	66F	0	The tank is filled into the traditional way.	
	185	0	Detergent level switches not enabled.	
	LI 1	15	Select user interface without display (up to version 3.11 set to	7).
	r E	0	Regeneration cycle enabled.	
	RL r	8	ALARMS NOT ENABLED.	
3.	Switch OFF and	d then s	witch ON the machine.	
4.	Modify Factory	parame	ters:	
	FRE Enter i	into FAC	C parameter family.	
	62I	84	Boiler Temperature Threshold.	
	680	3	Boiler Temperature Adjust.	
	658	2	Booster Function.	
5.	Modify the cycle	e param	eters:	
	[]] Cycle	3 paran	neters family.	
	Eng	1	Long Wash Phase [min]	
	5h3	40	Short Wash Phase [s]	
6.	Switch OFF and	d then s	witch ON the machine.	
7.	Modify Deterge	nt dosa	ge:	
			n parameter family.	
	d In	185	Initial Detergent Dosage.	
	r In	0	Initial Rinse Aid Dosage.	
	dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE i	n activated.
	r R ,	5 1	Rinse Aid dispenser works when LOAD SOLENOID VALVE i	
8.	Switch OFF and	d then s	witch ON the machine.	



Γι	.S5 /	WT	4 P	RES MONO	Prog. 021				
1.	Switch	Switch OFF and then switch ON the machine.							
2.	[FG	Enter i	nto CFC	e parameter family and set the following parame	eters.				
		1	1	Hood Type like working cycles.					
		601	1	Pressure boiler.					
		daa	2	Front loading door type.					
		dFL	3	Default values for Undercounter models.					
		tre	0	(for this appliance SOFT START is NOT possible).					
		6.6	1	Tank heater works only if boiler temperature reached.					
		66F	0	The tank is filled into the traditional way.					
		185	0	Detergent level switches not enabled.					
		U 1	15	Select user interface without display (up to version 3.11 set to	7).				
		r E	0	Regeneration cycle disabled.					
		RLr	8	ALARMS NOT ENABLED.					
3.	Switch	OFF and	I then sv	vitch ON the machine.					
4.		Factory p	paramet	ers:					
	FRE			parameter family.					
		68T		Boiler Temperature Threshold.					
		687	-	Boiler Temperature Adjust.					
		656	2	Booster Function.					
5.	-	the cycle	e parame	eters:					
	[43	-	-	eters family.					
		En 3		Long Wash Phase [min]					
		583	40	Short Wash Phase [s]					
6.	Switch	OFF and	I then sv	vitch ON the machine.					
7.	-	Deterger	nt dosag	le:					
	6En	Enter i		n parameter family.					
		q in	185	Initial Detergent Dosage.					
		r In	8	Initial Rinse Aid Dosage.					
		dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE i	n activated.				
		r 8 ,	5 I	Rinse Aid dispenser works when LOAD SOLENOID VALVE i	n activated.				
8.	Switch	OFF and	I then sv	vitch ON the machine.					



LE	35G/\	NT4	G		Prog. 022			
1.	Switch C	Switch OFF and then switch ON the machine.						
2.	[F []	Enter in	to CFG	parameter family and set the following parame	eters.			
	1	: 4P	0	Hood Type like working cycles.				
	1	50 1	0	Atmospheric boiler.				
	6	daa	2	Front loading door type.				
	6	4F L	3	Default values for Undercounter models.				
	l	tre	8	(for this appliance SOFT START is NOT possible).				
	-	5_6	1	Tank heater works only if boiler temperature reached.				
		5 <i>2 F</i>	8	The tank is filled into the traditional way.				
	l	185	8	Detergent level switches not enabled.				
	l	11	15	Select user interface for LS5 (up to version 3.11 set to 7).				
		- E	8	Regeneration cycle disabled.				
	}	91 r	1	ALARMS ENABLED.				
3.	Switch C	OFF and	then s	witch ON the machine.				
4.	Modify F	actory p	barame	ters:				
	F R [Enter in	ito FAC	parameter family.				
		65[85	Boiler Temperature Threshold.				
		68J	0	Boiler Temperature Adjust.				
		65E	2	Booster Function.				
5.	Modify th	he cycle	param	eters:				
	[73	Cycle 3	param	eters family.				
		Ful	1	Long Wash Phase [min]				
		5h3	40	Short Wash Phase [s]				
6.	Switch C	OFF and	then s	witch ON the machine.				
7.	Modify D	Detergen	nt dosa	ge:				
	6En	Enter in	nto GEI	n parameter family.				
		d in	70	Initial Detergent Dosage [s].				
		r In	5	Initial Rinse Aid Dosage [s].				
8.	Switch C	OFF and	then s	witch ON the machine.				

E	ECOTEMP5 EAG Prog. 023								
1.	Switch	OFF and	I then s	witch ON the machine.					
2.	[F[F Enter into CFG parameter family and set the following parameters.							
		ŁЧР	8	Hood Type like working cycles.					
		bai	0	Atmospheric boiler.					
		daa	2	Front loading door type.					
		dFL	3	Default values for Undercounter models.					
		tre	1	SOFT START ENABLED.					
		6.6	1	Tank heater works only if boiler temperature reached.					
		66F	75	Enable filling tank by means of rinsing cycles.					



	185	0	Detergent level switches not enabled.			
	11	8	ACTIVE function disabled (up to version 3.11 set to 2).			
	r 8	0	Regeneration cycle disabled.			
	R1 r	1	ALARMS ENABLED.			
3.	Switch OFF and	Switch OFF and then switch ON the machine.				

L	S5V	VS / V	N۲	4WS MONO	Prog. 024				
1.	Switch	OFF and	then s	witch ON the machine.					
2.	[F[LFL Enter into CFG parameter family and set the following parameters.							
		5 4 P	8	Hood Type like working cycles.					
		601	0	Atmospheric boiler.					
		daa	2	Front loading door type.					
		dFL	3	Default values for Undercounter models.					
		trc	0	(for this appliance SOFT START is NOT possible).					
		6.6	1	Tank heater works only if boiler temperature reached.					
		66F	75	Enable filling tank by means of rinsing cycles.					
		185	0	Detergent level switches not enabled.					
		U 1	13	Select user interface for LS5 (up to version 3.11 set to 5).					
		r E	1	Regeneration cycle enabled.					
		RL r	1	ALARMS ENABLED.					
3.	Switch	OFF and	then s	witch ON the machine.					
4.	Modify	Modify Factory parameters:							
	FRE	Enter into	FAC	parameter family.					
		67 E	83	Boiler Temperature Threshold.					
		681	2	Boiler Temperature Adjust.					
		65E	2	Booster Function.					
5.	Modify	the cycle	param	eters:					
	[4]	Cycle 3 p	arame	ters family.					
		Ln3	1	Long Wash Phase [min]					
		5h3	40	Short Wash Phase [s]					
6.	Switch	OFF and	then s	witch ON the machine.					
7.	Modify	Detergen	t dosa	ge:					
	<u>GEn</u>	-		parameter family.					
		d In	70	Initial Detergent Dosage [s].					
		r In	5	Initial Rinse Aid Dosage [s].					
8.	Ent	Counters							
		r[¥	20	Number of cycles allowed before regeneration.					
9.	Switch			witch ON the machine.					



L	S12	ECO	ΤE	MP (EUROPE)	Prog. 025		
1.	Switch (OFF and th	nen s	witch ON the machine.			
2.	[FG	Enter into	CFG	parameter family and set the following paramet	ers.		
		ŁУР	0	Hood Type like working cycles.			
		60 1	0	Atmospheric boiler.			
		daa	1	Manual Hood.			
		Default values for Hood Type models.					
		<i>brc</i> (for this appliance SOFT START is NOT possible).					
		6.6	0	Tank and boiler heaters work simultaneously.			
		66F	0	The tank is filled into the traditional way.			
		185	0	Detergent level switches not enabled.			
		U 1	9	Select user interface hood type model (up to version 3.11 set to	b .		
		r E	0	Regeneration cycle disabled.			
		RL r	1	ALARMS ENABLED.			
3.	Switch (OFF and th	nen s	witch ON the machine.			
4.	Modify I	Factory pa	rame	ters:			
	FAL	Enter into	FAC	parameter family.			
		66I	82	Boiler Temperature Threshold.			
		681	8	Boiler Temperature Adjust.			
5.	Switch (OFF and th	nen s	witch ON the machine.			



Ľ	S12	ECC	DTE	MP UK	Prog. 026			
1.		OFF and	then s	witch ON the machine.				
2.	[F[Enter into CFG parameter family and set the following parameters.						
		£ ЧР	0	Hood Type like working cycles.				
		601	0	Atmospheric boiler.				
		daa	1	Manual Hood.				
		dFL	1	Default values for Hood Type models.				
		trc	0	(for this appliance SOFT START is NOT possible).				
		8-6	1	Tank heater works only if boiler temperature reached.				
		62F	0	The tank is filled into the traditional way.				
		185	0	Detergent level switches not enabled.				
		<u>11</u> 1	9	Select user interface hood type model (up to version 3.11 set to	, /).			
		r E	0	Regeneration cycle disabled.				
		AL r	1	ALARMS ENABLED.				
3.	Switch	OFF and	then s	witch ON the machine.				
4.	-	Factory p	barame	eters:				
	FAC	Enter int	o FAC	parameter family.				
		66I	82	Boiler Temperature Threshold.				
		68J	0	Boiler Temperature Adjust.				
5.	Modify	the cycle	param	neters:				
	[4]	Cycle 1	param	eters family.				
		dr l	0	Drain [s]				
	[42	Cycle 2	param	eters family.				
		drð	0	Drain [s]				
	[43	Cycle 3	param	eters family.				
		dr 3	1	Drain [s]				
	drn	Drain pa	aramete	ers family.				
		ldr	30	Initial Drain Phase Duration [s]				
	dPA	Set othe	er para	neters.				
		Pdr	30	Drain Phase Duration at the end of washing phase. [s]				
6.	Switch	OFF and	then s	witch ON the machine.				



L	.S6A	Η			Prog. 027	
1.	Switch OFF and then switch ON the machine.					
2.	LFL Enter into CFG parameter family and set the following parameters.					
		2 4 P	0	Hood Type like working cycles.		
		601	0	Atmospheric boiler.		
		daa	2	Front loading door type.		
		dFL	3	Default values for Undercounter models.		
		tre	1	SOFT START ENABLED.		
		6.6	1	Tank heater works only if boiler temperature reached.		
		66F	75	Enable filling tank by means of rinsing cycles.		
		185	0	Detergent level switches not enabled.		
		<u>U</u> 1	9	Select user interface hood type model (up to version 3.11 set	to i).	
		r E	0	Regeneration cycle disabled.		
		AL r	1	ALARMS ENABLED.		
3.	Switch C	OFF and t	then swi	tch ON the machine.		
4.	Modify F	actory pa	arametei	rs:		
	FRE	Enter in	to FAC	parameter family.		
		99 E	84	Boiler Temperature Threshold.		
		681	0	Boiler Temperature Adjust.		
		błd	3	During stand-by boiler is kept at lower temperature than Ter	nperature Threshold.	
			<i>68</i>	Tank Temperature Threshold.		
		66 M	2	HISTERESIS of Tank Temperature.		
5.	-	he cycle p	paramet	ers:		
	[4]	Cycle 1	parame	ters family.		
		Lal	1	Long Wash Phase [min]		
		5h 1	36	Short Wash Phase [s]		
		FP {	4	Final Pause [s]		
	[72	Cycle 2	parame	ters family.		
		LnZ	2	Long Wash Phase [min]		
		572	36	Short Wash Phase [s]		
		FPZ	4	Final Pause [s]		
	[73	Cycle 3	parame	ters family.		
		Enj	3	Long Wash Phase [min]		
		573	38	Short Wash Phase [s]		
		F P 3	4	Final Pause [s]		
	dPR	Set oth	er paran	neters.		
		[F	1	Fahrenheit.		
6.	Switch 0	OFF and t	hen swi	tch ON the machine.		



L	.S14	AH /	WT	65H	Prog. 028		
1.	Switch	OFF and then switch ON the machine.					
2.	[FG	Enter into	CFG p	arameter family and set the following para	meters.		
		ŁУР	0	Hood Type like working cycles.			
		601	0	Atmospheric boiler.			
		daa	1	Manual Hood.			
		dFL	1	Default values for Hood Type models.			
		tre	0	(for this appliance SOFT START is NOT possible).			
		6.6	1	Tank heater works only if boiler temperature reached.			
		btF	75	Enable filling tank by means of rinsing cycles.			
		185	0	Detergent level switches not enabled.			
		<u>11</u> 1	9	Select user interface hood type model (up to version 3.	11 set to <i>1</i>).		
		r E	0	Regeneration cycle disabled.			
		RL r	1	ALARMS ENABLED.			
3.	Switch	OFF and tl	hen swit	tch ON the machine.			
4.	Modify	Factory pa	rameter	rs:			
	FRE	Enter into	o FAC p	arameter family.			
		68[84	Boiler Temperature Threshold.			
		681	0	Boiler Temperature Adjust.			
		2 E E	58	Tank Temperature Threshold.			
		2 E M	2	HISTERESIS of Tank Temperature.			
5.	-	the cycle p	aramet	ers:			
	[4]	Cycle 1 p	aramet	ers family.			
		5h 1	37	Short Wash Phase [s]			
		PR (3	Pause [s]			
		FP {	4	Final Pause [s]			
	[72	Cycle 2 p	aramet	ers family.			
		542	45	Short Wash Phase [s]			
		FP2	4	Final Pause [s]			
	[43			ers family.			
		5h3	36	Short Wash Phase [s]			
		FP3	4	Final Pause [s]			
	dPR	Set other	parame	eters.			
		[F	1	Fahrenheit.			
6.	Switch	OFF and the	hen swit	tch ON the machine.			



н	3300)			Prog. 029
1.	Switch	OFF and	then sv	vitch ON the machine.	
2.	[F []	Enter ir	nto CFG	parameter family and set the following pa	arameters.
		1	8	Hood Type like working cycles.	
		601	0	Atmospheric boiler.	
		daa	2	Front loading.	
		dFL	3	Default values for Undercounter models.	
		tre	1	SOFT START ENABLED.	
		6.6	1	Tank heater works only if boiler temperature reached.	
		62F	75	Enable filling tank by means of rinsing cycles.	
		185	8	Detergent level switches not enabled.	
		<u>11</u> 1	8	ACTIVE function disabled (up to version 3.11 set to).
		r E	8	Regeneration cycle disabled.	
		Al,	1	Alarms enabled.	
3.	Switch	OFF and	then sv	vitch ON the machine.	



Н	1310				Prog. 030
1.		OFF and	then s	witch ON the machine.	
2.	[F[Enter ir	nto CFC	G parameter family and set the following parame	eters.
		1 y P	0	Hood Type like working cycles.	
		601	0	Atmospheric boiler.	
		daa	2	Front loading.	
		dFL	3	Default values for Undercounter models.	
		tre	1	SOFT START ENABLED.	
		6.6	1	Tank heater works only if boiler temperature reached.	
		66F	75	Enable filling tank by means of rinsing cycles.	
		185	8	Detergent level switches not enabled.	
		U 1	8	ACTIVE function disabled (up to version 3.11 set to \square).	
		r E	0	Regeneration cycle disabled.	
		RL r	1	Alarms enabled.	
3.				witch ON the machine.	
4.		Factory p			
	F 8 (c parameter family and change boiler threshold.	
		64[90	Boiler Temperature Threshold.	
		6 H .	0	Disable boiler high Temperature alarm (
		681	0	Boiler Temperature Adjust.	
		658	0	Booster function not needed.	
		66 d	10	During stand-by boiler is kept at lower temperature than Tempe	rature Threshold.
		66T	<u> </u>	Tub Temperature Threshold.	
		2 H 1	85	Tank high Temperature limit.	
5.		the cycle			
	[]]		•	eters family.	
		Lal	4	Long Wash Phase [min]	
		5h 1	10	Short Wash Phase [s]	
		r i l	35	Rinse Phase Duration [s]	
		dr i	40	Drain [s]	
		FP {	15	Final Pause at End of Cycle	
	[72	-		eters family.	
		Lnč	5	Long Wash Phase [min]	
		5h2	10	Short Wash Phase [s]	
		التي م	35	Rinse Phase Duration [s]	
		dr 2	40	Drain [s]	
		FP2	15	Final Pause at End of Cycle	
	[43	-		eters family.	
		End	9	Long Wash Phase [min]	
		5 <i>h</i> 3	10	Short Wash Phase [s]	
		r i B	35	Rinse Phase Duration [s]	
		dr 3	40	Drain [s]	
		FP3	15	Final Pause at End of Cycle	
6.	Switch	OFF and	then s	witch ON the machine.	

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\	NT30)H			Prog. 031	
1.	Switch OFF and then switch ON the machine.					
2.	LFG Enter into CFG parameter family and set the following parameters.				eters.	
		ŁЧР	0	Hood Type like working cycles.		
		60 1	0	Atmospheric boiler.		
		daa	2	Front loading door type.		
		dFL	3	Default values for Undercounter models.		
		tre	1	SOFT START ENABLED.		
		8.6	1	Tank heater works only if boiler temperature reached.		
		btf	75	Enable filling tank by means of rinsing cycles.		
		185	0	Detergent level switches not enabled.		
		<i>Ц 1</i>	8	ACTIVE function disabled (up to version 3.11 set to \square).		
		r E	0	Regeneration cycle disabled.		
		AL r	1	ALARMS ENABLED.		
3.	Switch 0	OFF and t	then swi	tch ON the machine.		
4.	Modify F	actory pa	aramete	rs:		
	FAC	Enter in	to FAC	parameter family.		
		62[84	Boiler Temperature Threshold.		
		681	0	Boiler Temperature Adjust.		
		btd	3	During stand-by boiler is kept at lower temperature than Tem	perature Threshold.	
		66T	88	Tank Temperature Threshold.		
		6 E M	2	HISTERESIS of Tank Temperature.		
5.	Modify t	he cycle	paramet	ers:		
	[]]	Cycle 1	parame	eters family.		
		Lal	{	Long Wash Phase [min]		
		5h 1	38	Short Wash Phase [s]		
		FP (4	Final Pause [s]		
	[72	Cycle 2	parame	ters family.		
		Lnd	2	Long Wash Phase [min]		
		5h2	38	Short Wash Phase [s]		
		FPZ	ч	Final Pause [s]		
	[4]	Cycle 3	parame	eters family.		
		Ln3	3	Long Wash Phase [min]		
		5 <i>h3</i>	38	Short Wash Phase [s]		
		F P 3	ч	Final Pause [s]		
	dPR	Set othe	er paran	neters.		
		[F	1	Fahrenheit.		
6.	Switch 0	DFF and t	then swi	tch ON the machine.		



	D		Prog. 032
	then sw	vitch ON the machine.	
2. [FG Enter in	to CFG	parameter family and set the following parameter	eters.
ŁУР	7	Medical line dishwasher with lock door/hood device.	
601	0	Atmospheric boiler.	
daa	2	Front loading.	
dFL	3	Default values for Undercounter models.	
tre	1	SOFT START ENABLED.	
6.5	1	Tank heater works only if boiler temperature reached.	
62F	75	Enable filling tank by means of rinsing cycles.	
185	0	Detergent level switches not enabled.	
<u>11</u> 1	8	ACTIVE function disabled (up to version 3.11 set to \square).	
r E	0	Regeneration cycle disabled.	
RL r	1	Alarms enabled.	
3. Switch OFF and	then sw	vitch ON the machine.	
4. Modify Factory pa	aramete	ers:	
	to FAC	parameter family and change boiler threshold	
62Ĩ	92	Boiler Temperature Threshold.	
6H ,	ũ	Disable boiler high Temperature alarm (🕻 🛛 🕻).	
681	ũ	Boiler Temperature Adjust.	
658	ũ	Booster function not needed.	
62d	10	During stand-by boiler is kept at lower temperature than Tempe	erature Threshold.
22 E	<u> </u>	Tub Temperature Threshold.	
EH 1	85	Tank high Temperature limit.	
5. Modify the cycle	parame	ters:	
	-	eters family.	
Lal		Long Wash Phase [min]	
5h 1	35	Short Wash Phase [s]	
PR (5	Pause [s]	
r i l	35	Rinse Phase Duration [s]	
dr i	40	Drain [s]	
FP (<i>60</i>	Final Pause at End of Cycle [s].	
Cycle 2	param	eters family.	
Lac	5	Long Wash Phase [min]	
She	35	Short Wash Phase [s]	
P82	5	Pause [s]	
التي م	35	Rinse Phase Duration [s]	
dr 2		Drain [s]	
592	60	Final Pause at End of Cycle[s].	

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V	VT38	3 MEI	D		Prog. 032
	[4]	Cycle 3 p	param	eters family.	
		Ln3	8	Long Wash Phase [min]	
		5h3	35	Short Wash Phase [s]	
		PR3	5	Pause [s]	
		r B	35	Rinse Phase Duration [s]	
		dr 3	40	Drain [s]	
		FP3	5 <i>0</i>	Final Pause at End of Cycle [s].	
	dPA	Set other	r para	meters.	
		r P A	45	Duration of pause after the rinse cycle [s].	
6.	Switch (OFF and th	nen sv	vitch ON the machine.	

	.S6M	CD			Prog. 033		
1.	Switch C	OFF and th	nen swit	ch ON the machine.			
2.	[F []	Enter int	to CFG	parameter family and set the following paramet	ers.		
		ŁЧР	8	Hood Type like working cycles.			
		601	8	Atmospheric boiler.			
		daa	2	Front loading.			
		dFL	3	Default values for Undercounter models.			
		tre	1	SOFT START ENABLED.			
		6.6	1	Tank heater works only if boiler temperature reached.			
		66 F	75	Enable filling tank by means of rinsing cycles.			
		185	1	Detergent level switches enabled.			
		LI 1	9	Select user interface hood type model (up to version 3.11 set to	ь ђ .		
		r E	0	Regeneration cycle disabled.			
		AL r	1	Alarms enabled.			
3.	Switch C	DFF and th	nen swi	ch ON the machine.			



١	NT30M			Prog. 034				
1.	Switch OFF and	then sv	vitch ON the machine.					
2.	LFG Enter into CFG parameter family and set the following parameters.							
	1 2 Y P	3	Medical line dishwasher with lock door/hood device.					
	601	0	Atmospheric boiler.					
	daa	1	Manual Hood.					
	dFL	1	Default values for Hood Type models.					
	tre	0	(for this appliance SOFT START is NOT possible).					
	6.6	1	Tank heater works only if boiler temperature reached.					
	62F	75	Enable filling tank by means of rinsing cycles.					
	185	0	Detergent level switches not enabled.					
	LI 1	8	ACTIVE function disabled (up to version 3.11 set to \vec{a}).					
	r E	0	Regeneration cycle disabled.					
	RL r	1	Alarms enabled.					
3.			vitch ON the machine.					
4.	Modify Factory p							
			c parameter family and change boiler threshold	1.				
	62E	55	Boiler Temperature Threshold.					
	5H .	0	Disable boiler high Temperature alarm (
	680	0	Boiler Temperature Adjust.					
	65E	0	Booster function not needed.					
	btd	10	During stand-by boiler is kept at lower temperature than Temp	perature Threshold.				
	22E	85	Tub Temperature Threshold.					
	5 K 1	85	Tank high Temperature limit.					
5.	Modify the cycle							
		· ·	eters family.					
	Lal	3	Long Wash Phase [min]					
	5h 1		Short Wash Phase [s]					
	PR (5	Pause [s]					
		35	Rinse Phase Duration [s]					
	dr l	40	Drain [s]					
	FP (<i>80</i>	Final Pause at End of Cycle [s].					
		-	eters family.					
	Laz	5	Long Wash Phase [min]					
	542	35	Short Wash Phase [s]					
	PRZ	5	Pause [s]					
	المحمد الم		Rinse Phase Duration [s]					
	drð		Drain [s]					
	FP2	<i>50</i>	Final Pause at End of Cycle[s].					

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V	VT3(Prog. 034			
	[43	Cycle 3	param	eters family.	
		Ln3	8	Long Wash Phase [min]	
		5h3	35	Short Wash Phase [s]	
		PR3	5	Pause [s]	
		r ið	35	Rinse Phase Duration [s]	
		dr 3	40	Drain [s]	
		FP3	<i>60</i>	Final Pause at End of Cycle [s].	
	dPR	Set othe	er para	meters.	
		r P A	45	Duration of pause after the rinse cycle [s].	
		[F	1	Fahrenheit.	
6.	Switch (OFF and t	then sw	ritch ON the machine.	

V	VT65	5M			Prog. 035
1.	Switch	OFF and	then sw	vitch ON the machine.	
2.	[F []	Enter i	nto CFG	parameter family and set the following parame	eters.
		ŁЧР	3	Medical line dishwasher with lock door/hood device.	
		601	0	Atmospheric boiler.	
		daa	1	Front loading.	
		dFL	3	Default values for Undercounter models.	
		tre	1	SOFT START ENABLED.	
		8.8	1	Tank heater works only if boiler temperature reached.	
		66F	75	Enable filling tank by means of rinsing cycles.	
		185	0	Detergent level switches not enabled.	
		<u>11</u> 1	9	Select user interface hood type model (up to version 3.11 set to	b i).
		r E	8	Regeneration cycle disabled.	
		RL r	1	Alarms enabled.	
3.				vitch ON the machine.	
4.		Factory p			
	FRE			parameter family and change boiler threshold.	
		68 E	92	Boiler Temperature Threshold.	
		6X .	Ű	Disable boiler high Temperature alarm (\mathbf{L} \mathbf{L}).	
		687	8	Boiler Temperature Adjust.	
		b5t	0	Booster function not needed.	
		62 d	10	During stand-by boiler is kept at lower temperature than Tempe	rature Threshold.
		22E	<u> </u>	Tub Temperature Threshold.	
I		EH 1	85	Tank high Temperature limit.	

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N	/T65	Prog. 035			
5.	Modify th	ne cycle p	barame	eters:	
	[y]			eters family.	
		Lal	3	Long Wash Phase [min]	
		561	35	Short Wash Phase [s]	
		PR (5	Pause [s]	
		rit	35	Rinse Phase Duration [s]	
		dr i	40	Drain [s]	
		FP {	<i>60</i>	Final Pause at End of Cycle [s].	
	[7]	Cycle 2	param	eters family.	
		Lad	5	Long Wash Phase [min]	
		5h2		Short Wash Phase [s]	
			5	Pause [s]	
		التي م		Rinse Phase Duration [s]	
				Drain [s]	
		FP2	<i>60</i>	Final Pause at End of Cycle[s].	
	[73			eters family.	
				Long Wash Phase [min]	
		563	35	Short Wash Phase [s]	
			5	Pause [s]	
			35	Rinse Phase Duration [s]	
				Drain [s]	
		FP3	60	Final Pause at End of Cycle [s].	
	dPR	Set othe	•		
		r P A	45	Duration of pause after the rinse cycle [s].	
		[F	1	Fahrenheit.	
6.	Switch C	FF and t	hen sw	vitch ON the machine.	



L	_S5/1	S5/1DPAUS Prog. 036							
1.	Switch C	OFF and	then sv	vitch ON the machine.					
2.	[F[Enter int	to CFG	parameter family and set the following paramet	ers.				
	ļ	ŁЧР	8	Hood Type like working cycles.					
	ł	601	1	Pressure boiler.					
	ł	daa	2	Front loading door type.					
	ł	dFL	3	Default values for Undercounter models.					
		trc	8	(for this appliance SOFT START is NOT possible).					
		6_6	1	Tank heater works only if boiler temperature reached.					
	ł	6 <i>2</i> F	8	The tank is filled into the traditional way.					
	ł								
		LI 1	13	Select user interface for LS5 (up to version 3.11 set to 5).					
		r E	0	Regeneration cycle disabled.					
		RLr	8	ALARMS NOT ENABLED.					
3.	Switch C	OFF and	then sv	vitch ON the machine.					
4.	Modify F	actory p	paramet	ers:					
	FRE	Enter int	to FAC	parameter family.					
		68T	82	Boiler Temperature Threshold.					
		681	3	Boiler Temperature Adjust.					
		65E	2	Booster Function.					
5.	Modify th	he cycle	param	eters:					
	[43	Cycle 3	parame	ters family.					
		En 3	1	Long Wash Phase [min]					
		5h3	40	Short Wash Phase [s]					
6.	Switch C	OFF and	then s	vitch ON the machine.					
7.	Modify D	Detergen	nt dosag	le:					
	6En I	Enter int	to GEn	parameter family.					
		d In	185	Initial Detergent Dosage.					
		r In	0	Initial Rinse Aid Dosage.					
		dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE	n activated.				
		r R ,	5 f	Rinse Aid dispenser works when LOAD SOLENOID VALVE	in activated.				
8.	Switch C	OFF and	then sv	vitch ON the machine.					



PW1-PW2 / WT830 -WT850 USA

Prog. 037

1.		vitch OFF and then switch ON the machine.						
2.	[F []	1		parameter family and set the following parameters.				
		2 9 P	1	Pot Washer.				
		601	8	Atmospheric boiler.				
		daa	2	Front loading function.				
		dFL	2	Default values for Pot Washer models.				
		tre	8	(for this appliance SOFT START is NOT possible).				
		6.6	1	Tank heater works only if boiler temperature reached.				
		62F	8	The tank is filled into the traditional way.				
		185	0	Detergent level switches not enabled.				
		U 1	9	Select user interface hood type model (up to version 3.11 set to t).				
		r E	0	Regeneration cycle disabled.				
		RL r	1	Alarms enabled.				
3.	Switch OF	and the	en switch	ON the machine.				
4.	Modify Fac	tory para	ameters:					
	F#[En	ter into F	AC para	neter family.				
	62[84	Boiler Ten	perature threshold.				
	6H ,	98	Boiler Ten	nperature high limit.				
	681	0	Boiler Ten	nperature Adjust.				
	22E	70	Tub Temp	erature Threshold.				
	2 E M	2	HISTERES	SIS of Tank Temperature.				
	EH 1	80	Tank high	Temperature limit.				
5.	Modify the	cycle pa	rameters					
	[¥¦ Cy	cle 1 pa	rameters	family.				
	Lal	5	Long Wasl	n Phase [min]				
	5h 1	11	Short Was	n Phase [s]				
	r 1 i	23	Rinse Phas	e Duration [s]				
	FP {	20	Final Paus	e at End of Cycle [s].				
	[4] Cy	cle 2 pa	rameters	family.				
	Lnd	9		n Phase [min]				
	5h2	11	Short Was	n Phase [s]				
	کتي م	23	Rinse Phas	e Duration [s]				
	FP2	20	Final Paus	e at End of Cycle [s].				
	[У] Су	cle 3 pa	rameters	family.				
	End	14		n Phase [min]				
	5h3	11	Short Wasl	n Phase [s]				
	r B	23	Rinse Phas	e Duration [s]				
	FP3	20	Final Paus	e at End of Cycle [s].				
	d₽Я Se	t other p	arameter	S.				
	[F	1	Fahrenheit					
6.	Switch OFI	and the	en switch	ON the machine.				



\	NT30)C (C	Café	Line)	Prog. 038
1.	Switch (OFF and t	then swi	tch ON the machine.	
2.	[F []	Enter in	to CFG	parameter family and set the following param	eters.
	1	63P	0	Hood Type like working cycles.	
		601	8	Atmospheric boiler.	
		daa	Z	Front loading door type.	
		dFL	3	Default values for Undercounter models.	
		tre	1	SOFT START ENABLED.	
		6.6	1	Tank heater works only if boiler temperature reached.	
		62F	75	Enable filling tank by means of rinsing cycles.	
		185	1	Detergent level switches enabled.	
		<u>11</u> 1	9	Select user interface hood type model (up to version 3.11 se	to 1).
		r E	0	Regeneration cycle disabled.	
		RL r	1	ALARMS ENABLED.	
3.	Switch (OFF and t	then swi	tch ON the machine.	
4.	Modify F	actory pa	aramete	rs:	
	FRE	Enter in	to FAC	parameter family.	
		62T	84	Boiler Temperature Threshold.	
		681	0	Boiler Temperature Adjust.	
		błd	3	During stand-by boiler is kept at lower temperature than Ter	nperature Threshold.
		22 E	88	Tank Temperature Threshold.	
		2 E H	2	HISTERESIS of Tank Temperature.	
5.	Modify t	he cycle	paramet	ers:	
	[]	Cycle 1	parame	eters family.	
		Lal	1	Long Wash Phase [min]	
			38	Short Wash Phase [s]	
		FP {	4	Final Pause [s]	
	[72	Cycle 2	parame	eters family.	
		Lad	2	Long Wash Phase [min]	
		542	38	Short Wash Phase [s]	
		FP2	4	Final Pause [s]	
	[43	Cycle 3	-	eters family.	
		[u]	3	Long Wash Phase [min]	
		5 <i>h3</i>	38	Short Wash Phase [s]	
		FP3	4	Final Pause [s]	
	dPR		er paran	neters.	
		[F	1	Fahrenheit.	
6.	Switch (OFF and t	then swi	tch ON the machine.	



WT38PM50 / WT38PM60 Prog. 039 Switch OFF and then switch ON the machine. 1. 2. [F[Enter into CFG parameter family and set the following parameters. ŁЧP 0 Hood Type like working cycles. 60 1 1 Pressure boiler. 2 daa Front loading. dFL 3 Default values for Undercounter models. [] tre (for this appliance SOFT START is NOT possible). 6.6 1 Tank heater works only if boiler temperature reached. htF 75 Enable filling tank by means of rinsing cycles. 1.85 0 Detergent level switches not enabled. 11 1 B ACTIVE function disabled (up to version 3.11 set to $\mathbf{\mathcal{G}}$). r E 1 Regeneration cycle disabled. AL r 1 Alarms enabled. Switch OFF and then switch ON the machine. 3. 4. Modify Factory parameters: FRE Enter into FAC parameter family and change boiler threshold. 68T 90 Boiler Temperature Threshold. 62 d 10 During stand-by boiler is kept at lower temperature than Temperature Threshold. 656 0 Booster Function not necessary. 6 E T 55 Tank Temperature Threshold. EH , 85 High limit for tank temperature. 5. Modify the cycle parameters: [4] Cycle 1 parameters family. Lal 1 Long Wash Phase [min] 561 22 Short Wash Phase [s] 25 r 1 1 Rinse Phase Duration [s] dr l 40 Drain [s] FP 1 ч Final Pause [s] [42 Cycle 2 parameters family. Lnz 2 Long Wash Phase [min] 5h2 22 Short Wash Phase [s] r 12 25 Rinse Phase Duration [s] dr Z 40 Drain [s] FP2 4 Final Pause [s] [4 3 Cycle 3 parameters family. Enj 4 Long Wash Phase [min] 543 22 Short Wash Phase [s] r B 25 Rinse Phase Duration [s] dr 3 40 Drain [s] FP3 4 Final Pause [s]



WT38PM50 / WT38PM60 Prog. 039 drn Drain parameters family. Idr Idr Idr Initial Drain Phase Duration [s] dPR Set other parameters. IPR Initial Pause [s] 6. Switch OFF and then switch ON the machine.

L	U7P	/ LU	700	P / WTU40P	Prog. 040
1.	Switch	OFF and	then sv	vitch ON the machine.	
2.	[F []	Enter in	to CFG	parameter family and set the following pa	rameters.
		2 4 P	0	Hood Type like working cycles.	
		601	1	Pressure boiler.	
		daa	Z	Front loading.	
		dFL	1	Default values for Hood Type models.	
		tre	3	SLOW SOFT START ENABLED	
		6.6	1	Tank heater works only if boiler temperature reached.	
		62F	8	The tank is filled into the traditional way.	
		185	0	Detergent level switches not enabled.	
		<u>U</u> 1	8	ACTIVE function disabled (up to version 3.11 set to	;).
		r E	0	Regeneration cycle disabled.	
		RL r	1	Alarms enabled.	
3.	Switch	OFF and	then sv	vitch ON the machine.	
4.	Modify	Factory p	paramet	ers:	
	FR[Enter in	to FAC	parameter family and change boiler thresh	nold.
		64 [84	Boiler Temperature Threshold.	
		681	8	Boiler Temperature Adjust.	
		65E	1	Booster Function.	
5.	Modify	the cycle	parame	eters:	
	[72	Cycle 2	parame	eters family.	
		Lnd	1	Long Wash Phase [min]	
		5h2	10	Short Wash Phase [s]	
	[43	Cycle 3	parame	ters family.	
		End	녁	Long Wash Phase [min]	
6.	Switch	OFF and	then sv	vitch ON the machine.	



	.U7A	A			Prog. 041
1.	Switch	OFF and	then sv	vitch ON the machine.	
2.	[F []	Enter in	to CFG	parameter family and set the following paramet	ers.
		ŁУР	8	Hood Type like working cycles.	
		601	0	Atmospheric boiler.	
		daa	2	Front loading.	
		dFL	1	Default values for Hood Type models.	
		tre	3	SLOW SOFT START ENABLED	
		6.6	1	Tank heater works only if boiler temperature reached.	
			75	Enable filling tank by means of rinsing cycles.	
		185	0	Detergent level switches not enabled.	
		U 1	9	Select user interface hood type model (up to version 3.11 set to	₀ /).
		r E	0	Regeneration cycle disabled.	
		RL r	1	Alarms enabled.	
3.	Switch	OFF and	then sv	vitch ON the machine.	
4.	Modify	Factory p	paramet	ers:	
	FRE	Enter in	to FAC	parameter family and change boiler threshold.	
		95 <u>[</u>	82	Boiler Temperature Threshold.	
		681	0	Boiler Temperature Adjust.	
		65E	1	Booster Function.	
5.	Modify	the cycle	parame	eters:	
	[42	Cycle 2	parame	ters family.	
		145	1	Long Wash Phase [min]	
		562	18	Short Wash Phase [s]	
	[4]	Cycle 3	parame	ters family.	
		[u]	ч	Long Wash Phase [min]	
6.	Switch	OFF and	then sv	vitch ON the machine.	



LS14WS / WT65WS Prog. 042 Switch OFF and then switch ON the machine. 1. 2. [FG Enter into CFG parameter family and set the following parameters. ŁЧР 0 Hood Type like working cycles. 601 0 Atmospheric boiler. daa 1 Manual Hood. dFL 1 Default values for Hood Type models. [] tre (for this appliance SOFT START is NOT possible). 6.6 1 Tank heater works only if boiler temperature reached. 6EF 75 Enable filling tank by means of rinsing cycles. 185 [] Detergent level switches not enabled. 111 3 Select user interface hood type model (up to version 3.11 set to 4). r E [] Regeneration cycle disabled (only for dishwashers with non-continuous water softener). AL r 1 Alarms enabled. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAC Factory parameters family 78 68 E Boiler Temperature Threshold. Modify Communication and HACCP parameters: 5. HEP Enter into \mathcal{HLP} parameter family and set the following parameters. SEr 9 Dishwasher with incorporated continuous water softener. Switch OFF and then switch ON the machine. 6.

١	WT65MEDWS Prog. 043								
1.	Switch	OFF and	then sw	itch ON the machine.					
2.	[F[Enter int	o CFG p	parameter family and set the following parame	ters:				
		£ 4P	8	Hood Type like working cycles.					
		601	0	Atmospheric boiler.					
		daa	0	Automatic Hood.					
		dFL	1	Default values for Hood Type models.					
		tre	8	(for this appliance SOFT START is NOT possible).					
		8.8	1	Tank heater works only if boiler temperature reached.					
		66F	75	Enable filling tank by means of rinsing cycles.					
		185	8	Detergent level switches not enabled.					
		<u>11</u> 1	9	Select user interface hood type model (up to version 3.11 se	t to <i>i</i>).				
		r E	8	Regeneration cycle disabled (only for dishwashers with non-	continuous water softener).				
		RL r	1	Alarms enabled.					
3.	Switch	OFF and	then sw	itch ON the machine.					



١	WT65MEDWS Prog. 043							
4.	Modify	Factory pa	aramet	ters:				
	FRE	Factory p	barame	eters family				
		68I	90	Boiler Temperature Threshold.				
		6H 1	8	Disable boiler high Temperature alarm (🕻 👌).				
		681	0	Boiler Temperature Adjust.				
		65E	8	Booster Function.				
		E H 1	85	Tank high Temperature limit.				
5.	Modify	the cycle	param	eters:				
	[4]	Cycle 1 p	barame	eters family.				
		Lal	2	Long Wash Phase [min]				
		5h i	32	Short Wash Phase [s]				
		ril	35	Rinse Phase Duration [s]				
		dr i	40	Drain [s]				
		FP {	15	Final Pause [s]				
	[7]	Cycle 2 p	barame	eters family.				
		LnZ	3	Long Wash Phase [min]				
		5h2	32	Short Wash Phase [s]				
		r iz	35	Rinse Phase Duration [s]				
		dr 2	40	Drain [s]				
		FP2	15	Final Pause [s]				
	ek j	Cycle 3 p	barame	eters family.				
		En 3	5	Long Wash Phase [min]				
		5h3	32	Short Wash Phase [s]				
		r i3	35	Rinse Phase Duration [s]				
		dr 3	40	Drain [s]				
	_	FP3	15	Final Pause [s]				
	dPR	Set other		eters.				
		(PR	4	Initial Pause [s]				
6.	-			and HACCP parameters:				
	X[P	Enter into	0 <u>H[</u> F	^e parameter family and set the following parame	eters.			
		587	9	Dishwasher with incorporated continuous water softener.				
7.	Switch	OFF and	then s	witch ON the machine.				



	LS6WS Prog. 044								
1.	Switch	OFF and the	en swite	ch ON the machine.					
2.	[F []	Enter into	CFG p	arameter family and set the following parame	ters.				
		1	8	Undercounter like working cycles.					
		601	8	Atmospheric boiler.					
		daa	2	Front loading.					
		dFL	3	Default values for Undercounter models.					
		tre	1	SOFT START ENABLED.					
		6.6	1	Tank heater works only if boiler temperature reached.					
		62F	75	Enable filling tank by means of rinsing cycles.					
		185	8	Detergent level switches not enabled.					
		U 1	9	Select user interface hood type model (up to version 3.11 se	et to 1).				
		r E	8	Regeneration cycle disabled (only for dishwashers with non-	continuous water softener).				
		AL r	1	Alarms enabled.					
3.	Modify	Communica	tion an	d HACCP parameters:					
	H[P								
		SEr	9	Dishwasher with incorporated continuous water softener.					
4.	Switch	OFF and the	en swite	ch ON the machine.					

'	WT38MEDWS Prog. 045								
1.	Switch C	FF and the	en swit	ch ON the machine.					
2.	[F []	Enter inter	o CFG	parameter family and set the following parame	ters.				
		LYP Under counter like working cycles.							
		601	8	Atmospheric boiler.					
		daa	Z	Front loading.					
		dFL	3	Default values for Undercounter models.					
		trc	1	SOFT START ENABLED.					
		6.6	1	Tank heater works only if boiler temperature reached.					
		66F	75	Enable filling tank by means of rinsing cycles.					
		185	8	Detergent level switches not enabled.					
		11	8	ACTIVE function disabled (up to version 3.11 set to \Box).					
		r E	8	Regeneration cycle disabled (only for dishwashers with non-ce	ontinuous water softener).				
		RL r	1	Alarms enabled.					
3.	Switch C	FF and the	en swit	ch ON the machine.					



\	WT38	BME	DWS	6	Prog. 045							
4.		actory pa	rameter	S:								
	FRE	, , ,										
		68T	90	Boiler Temperature Threshold.								
		6× ,	0									
		68J	8	Boiler Temperature Adjust.								
		65E	8	Booster function not needed.								
		błd	10	During stand-by boiler is kept at lower temperature than Tem	perature Threshold.							
		66I	85	Tub Temperature Threshold.								
		E H 1	85	Tank high Temperature limit.								
5.	-	lify the cycle parameters:										
	[]]											
		Lal	4	Long Wash Phase [min]								
		r 1 1	35	Rinse Phase Duration [s]								
		dr l	40	Drain [s]								
	S	FP {	15	Final Pause at End of Cycle								
	[72		•	ters family.								
		Lad	5	Long Wash Phase [min]								
		Short Wash Phase [s] Short Wash Phase [s] Rinse Phase Duration [s]										
		drð	40	Drain [s]								
	5	FP2	15	Final Pause at End of Cycle								
	[ters family.								
		Lnj	9	Long Wash Phase [min]								
			10	Short Wash Phase [s]								
		r 13	35	Rinse Phase Duration [s]								
		dr 3 c a a	40	Drain [s]								
L		FP3	15	Final Pause at End of Cycle								
6.	,			d HACCP parameters:								
	H[P			parameter family and set the following param	eters.							
<u> </u>		58 r	9	Dishwasher with incorporated continuous water softener.								
7.	Switch C	FF and th	nen swit	ch ON the machine.								



FL620 / LV6 / WT30 6000W ATM

Prog. 046

1.	Switch OFF and	Switch OFF and then switch ON the machine.								
2.	LFL Enter into CFG parameter family and set the following parameters.									
	1 4 4 P	8	Hood Type like working cycles.							
	601	0	Atmospheric boiler.							
	daa	2	Front loading.							
	dFL3Default values for Undercounter models.Erc1SOFT START ENABLED.									
	6.6	1	Tank heater works only if boiler temperature reached.							
	62F	75	Enable filling tank by means of rinsing cycles.							
	185	8	Detergent level switches not enabled.							
	11 1	8	ACTIVE function disabled (up to version 3.11 set to \square).							
	r E	8	Regeneration cycle disabled.							
	AL r	1	Alarms enabled.							
3.	Switch OFF and	then	switch ON the machine.							

	.U70	0A /	WT	U40A	Prog. 047								
1.	Switch	Switch OFF and then switch ON the machine.											
2.	LF Enter into CFG parameter family and set the following parameters.												
	Hood Type like working cycles.												
	ba <i>i</i> Atmospheric boiler.												
		daa	2	Front loading.									
		dFL	1	Default values for Hood Type models.									
	SLOW SOFT START ENABLED												
		b b t Tank heater works only if boiler temperature reached.											
			75	Enable filling tank by means of rinsing cycles.									
		185	8	Detergent level switches not enabled.									
		LI 1											
		r E	8	Regeneration cycle disabled. Alarms enabled.									
		AL r	1										
3.	Switch	OFF and	then sv	vitch ON the machine.									
4.	Modify	Factory p	aramet	ers:									
	FAL	Enter int	to FAC	parameter family and change boiler threshold.									
		68I	82	Boiler Temperature Threshold.									
		681	0	Boiler Temperature Adjust.									
		65E	1	Booster Function.									
5.	Modify	the cycle	parame	eters:									



LU700A / WTU40A Prog.										
	Cycle 2 parameters family.									
		Lnd	1	Long Wash Phase [min]						
	Sh2 10 Short Wash Phase [s]									
	[43	Cycle 3 pa	irame	eters family.						
		Ln3	식	Long Wash Phase [min]						
6.	Switch	OFF and th	en s	witch ON the machine.						

	FL62	20WS	/ L\	/6WS / WT38WS	Prog. 048									
1.	Switch (OFF and the	en swite	ch ON the machine.										
2.	[F[Enter into CFG parameter family and set the following parameters.												
		ŁЧР	8	Undercounter like working cycles.										
		601	8	Atmospheric boiler.										
		daa	2	Front loading.										
		dFL	Default values for Undercounter models.											
		tre	1	SOFT START ENABLED. Tank heater works only if boiler temperature reached.										
		6.6	1											
		62F	75	Enable filling tank by means of rinsing cycles. Detergent level switches not enabled.										
		185	8											
		U 1	8	ACTIVE function disabled (up to version 3.11 set to \square).										
		r E	8	Regeneration cycle disabled (only for dishwashers with non-	-continuous water softener).									
		RL r	1	Alarms enabled.										
3.	Modify (Communica	tion an	d HACCP parameters:										
	HEP	Enter into	HEP _F	parameter family and set the following parameter	eters.									
		58 r	3	Dishwasher with incorporated continuous water softener.										
4.	Switch (OFF and the	en swite	ch ON the machine.										



11. DEFAULT VALUES

Default 1 – Hood Type

$GEn \rightarrow$	Ent	FAC	\rightarrow	[4]	\rightarrow	692	\rightarrow	[43	\rightarrow	drn	\rightarrow	dPR	\rightarrow	ran	\rightarrow	HEP	\rightarrow	[F G		dbû	
Ļ	↓	\downarrow		\downarrow		\downarrow															
d In: 90	[У[btľ:	78	Lals	0	LnZ:	۵	Ln3:	1	ldr:	40	ipa:	0	rEL		SEre	1	2 9 P :	0	t 1:	15
- In: 10	сУс	66×5	2	5h 1:	35	ShZ:	45	Sh3:	40	Fdr :	60	dly:	3	r L S		Adr:	1	ba 1:	۵	t Z:	200
dEt: 8	r St	6H 13	98	PR 1:	Ч	P82:	Ч	P83:	ч			Pdr:	0	[8;;		Praz	1	daa:	1	Ł 3:	15
- R .: 4	n[Y	bla:	1	Pr l:	0	PrZ:	0	Pr 3:	۵			rPR:	0	[8		68 :	90	dFL:	-	Ł 4:	10
	drn	bFL :	5	r il:	15	r 12:	15	r 13:	15			[F:	0	F Z 1		6H :	10	tre:	۵	Ł 5:	20
	r[4	68J:	ч	er la	۵	erð:	0	cr3:	0			r it :	0			<i>tt :</i>	68	6.6:	1	2 6:	20
	nr E	6P :	1	dr I:	15	dr Z:	15	dr 3:	15			PPL:	0			EM :	10	66F:	75	RL . :	0
		656:	2	FP 1:	0	FP2:	0	FP3:	0			[d{:	5					185:	۵	lths	100
		btd:	0					683:	0									Ul :	9		
		£ £ [:	63															r 8 :	٥		
		EEH:	5															RLrs	1		
		EH 13	75															88G :	0		



Electronic Dishwasher SERVICE MANUAL

Default 2 - POT WASHER

GEn →	Ent	FAC	\rightarrow	[9].	\rightarrow	[72	\rightarrow	[43	\rightarrow	drn	\rightarrow	dPR	\rightarrow	ron \rightarrow	H[P	\rightarrow	[F []		dbû	
L .	↓	\downarrow		\downarrow	\downarrow		\downarrow		\downarrow											
d In:240	E 9E	62[:	78	Lal:	2	LnZ:	5	Ln]:	8	ldr:	40	IPR:	2	rEL	SEre	1	£ 90:	1	Ł 1:	15
r In: 18	c Yc	66 H :	2	Sh Is	34	ShZ:	34	Sh3:	Зч	Fdr :	60	dl¥:	3	r L 5	Rdr :	1	bo 1:	0	Ł Z:	200
dEt: 16	r 5t	6H (:	96	PA 1:	ч	P82:	ч	P83:	ч			Pdr:	0	[8:;	Pras	1	doo:	2	Ł 3:	15
- R 7	n[¥	blo:	1	Pr 1:	0	PrZ:	۵	Pr3:	۵			, PR:	0	[8	bt :	90	dFL:	-	Ł 4:	10
	drn	6FL :	5	r dz	20	r 12:	20	r 3:	20			[F:	۵	F21	6H :	10	tre:	0	Ł 5:	20
	r[¥	68J:	ч	er la	0	erð:	۵	cr3:	۵			r it :	۵		<i>tt</i> :	68	6.6:	1	Ł 6:	20
	nrE	6P :	1	dr l:	20	dr?:	20	dr 3:	20			PPL:	0		Ł# :	10	btF:	75	RL . :	0
		658:	ч	FP 1:	0	FP2:	0	FP3:	0			[dE:	5				185:	0	lth:	100
		btd:	0					bt3:	8					<u>.</u>			Ul :	9		
		2222	63							4							r 8 - :	0		
		ee He	5														Alr:	1		
		EH 15	75														A86:	0		
		tla:	1														<u>I</u>		1	
		eft :	40																	



Electronic Dishwasher SERVICE MANUAL

Default 3 - UNDERCOUNTER

GEn →	Ent	FRE		[4] -		[92		[93		drn		dPR		ran →	H[P	\rightarrow	[FG		dbû	
<u>ύζη →</u>	L'''L	F AL	\rightarrow	- 11	→	1 36	\rightarrow	633	\rightarrow	<u>8</u> , 4	\rightarrow	ar n	\rightarrow			\rightarrow				
\checkmark	\downarrow	\downarrow		<u>↓</u>		\downarrow		↓		\downarrow		\downarrow		\downarrow	↓		\downarrow		<u>↓</u>	
d In: 50	[9[62Ï:	80	Ln l:	1	Lnd:	1	Ln3:	3	ldr:	30	IPR:	0	rEL	SEre	1	69P:	0	E 1:	15
r In: 10	сУс	66 M :	2	5h 1:	10	ShZ:	40	5h3:	40	Fdr :	60	dly:	3	rl S	Rdr:	1	ba 1:	0	Ł 2:	200
dEt: 8	r St	64 12	98	PR 1:	ч	P82:	ч	P83:	ч			Pdr:	0	[8:;	Pras	1	doo:	2	t 3:	15
rRis 4	n[y	blo:	1	Pr 1:	0	PrZ:	0	Pr3:	0			r PR :	0	[8	bt :	90	dfl:	•	E 4:	10
	dra	bFL :	5	r il:	15	r 12:	15	r 13:	15			[F :	0	153	6H :	10	tre:	1	Ł 5:	20
	r[4	68J:	۵	er la	0	erð:	0	cr3:	0			r it :	۵		22 -	68	6.6:	1	Ł 6:	20
	nrE	6P :	1	dr l:	30	dr Z:	30	dr 3:	30			PPL:	۵		EH :	10	btf:	75	AL . :	6
		65t :	2	FP 1:	0	FPZ:	0	FP3:	0			[dE:	5				185:	0	lth:	100
		btd:	3					bt3:	0					1			Ul :	9		
		tt[:	63							J							r 8 :	0		
		EEH:	5														RLr:	1		
		EH 13	75														886:	0		
		62d: 22[: 22H:	3 63 5		Ŭ	FFE:	<u></u>					Ldt:	2]			U1 : rE : RLr:	9 0 1		

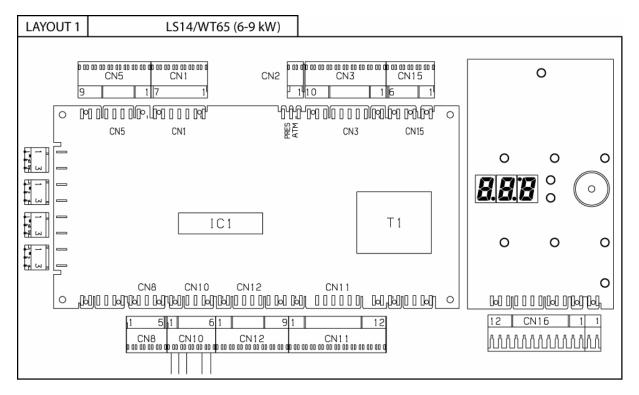


12. USER INTERFACE AND MAIN BOARD CONNECTORS

12.1 MAIN MALFUNCTIONS NOT DUE TO THE MAIN BOARD

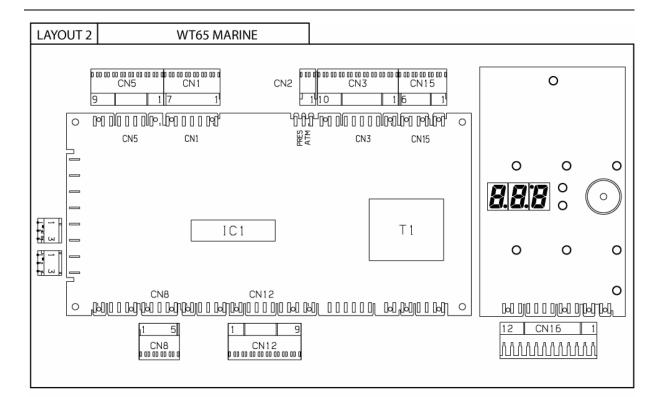
The display shows <i>LL 05E</i> with door/hood closed	Check door/hood micro/sensor
No cycle starts	Check the user interface buttons (have they remained pressed? etc.)
A cycle fails to start	Is a user interface button extension missing?
After replacing the main board only the 3 rd cycle starts	The main board is still configured for LS5/WT4.
Cycle time longer than that foreseen	Does the boiler work?
	Is the feed water at 50°C?
Noisy wash pump (only on HT and PP versions)	Check the current for single phase during operation.

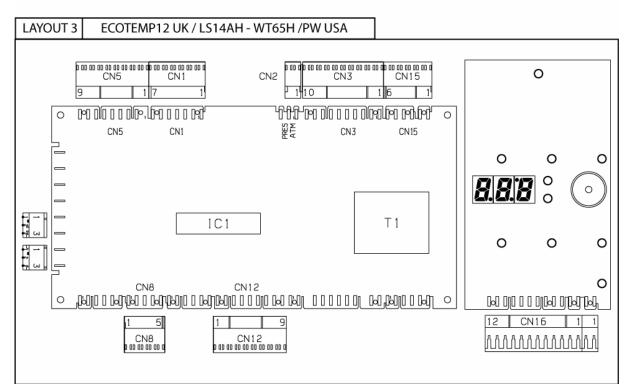
12.2 CONNECTORS LAYOUT



- CN1 Rinse pump/wash pump/solenoid valve outputs
- CN2 Pressure/atmospheric dishwasher solenoid valve connection
- ECOTEMP transformer and detergent/rinse aid dispenser outputs Tank/boiler temperature sensor inputs CN3
- CN5
- CN8 Energy peak controller input
- **CN10** Safety and upper/lower limit switch input
- Gear unit current control input Gear unit polarity inversion/connection **CN11**
- User interface inputs/outputs **CN12**
- **CN15** Overflow/tank level/board feed input
- **CN16** User interface inputs/outputs and hood/door sensor input

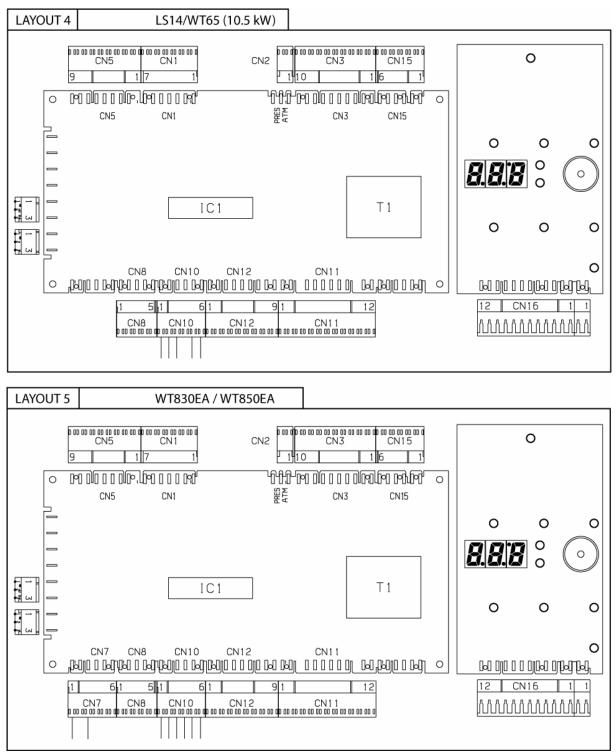






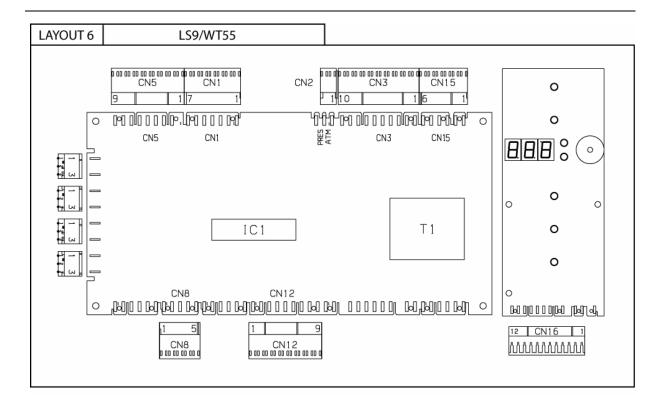
- CN1 Rinse pump/wash pump/solenoid valve outputs
- CN2 Pressure/atmospheric dishwasher solenoid valve connection
- **CN3** ECOTEMP transformer and detergent/rinse aid dispenser outputs
- **CN5** Tank/boiler temperature sensor inputs
- CN8 Energy peak controller input
- CN12 User interface inputs/outputs
- CN15 Overflow/tank level/board feed input
- CN16 User interface inputs/outputs and hood/door sensor input

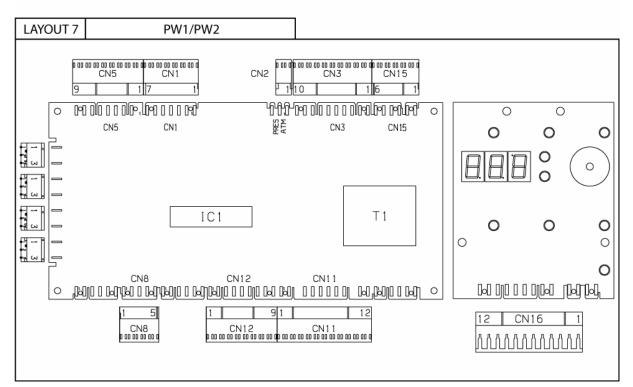




- **CN1** Rinse pump/wash pump/solenoid valve outputs
- CN2 Pressure/atmospheric dishwasher solenoid valve connection
- CN3 ECOTEMP transformer and detergent/rinse aid dispenser outputs
- CN5 Tank/boiler temperature sensor inputs
- CN7 Hand safety system microswitch input
- CN8 Energy peak controller input
- **CN10** Safety and upper/lower limit switch input
- CN11 Hand safety system input Gear motor current control input Gear motor polarity inversion connection
- CN12 User interface inputs/outputs
- CN15 Overflow/tank level/board feed input
- CN16 User interface inputs/outputs and hood/door sensor input

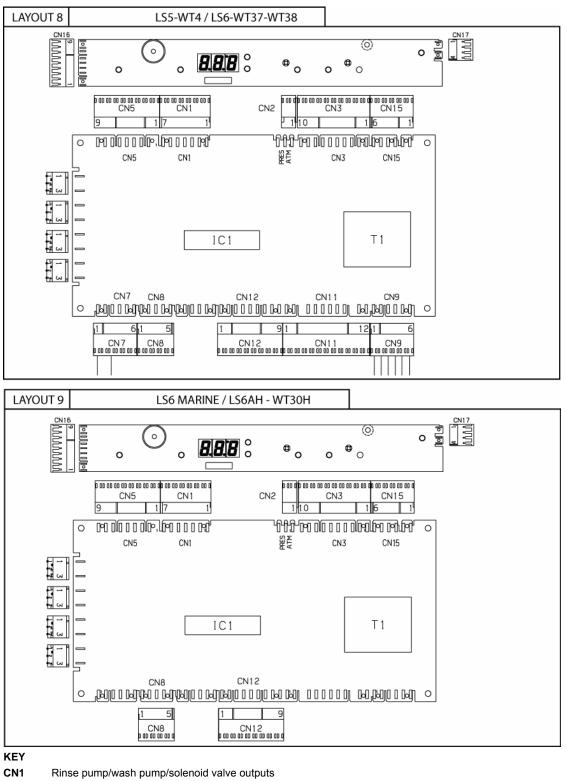






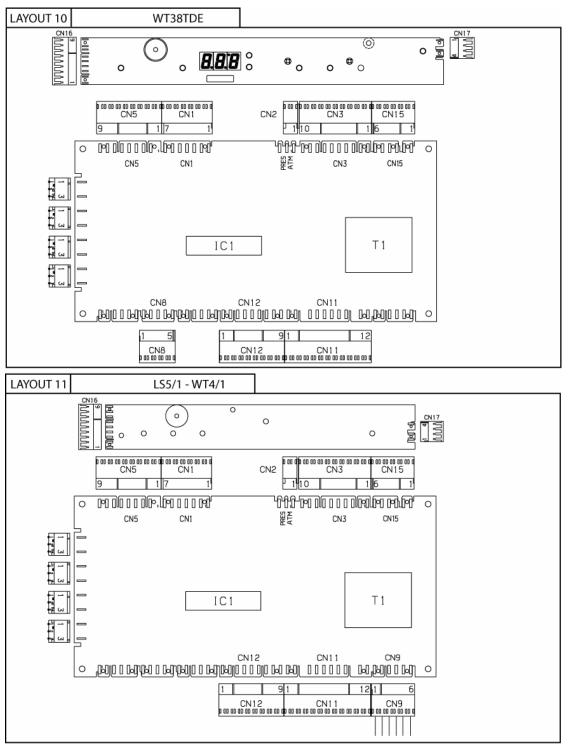
- CN1 Rinse pump/wash pump/solenoid valve outputs
- Pressure/atmospheric dishwasher solenoid valve connection CN2
- CN3 Detergent/rinse aid dispenser outputs
- CN5 Tank/boiler temperature sensor inputs
- CN8
- Energy peak controller input Water feed solenoid valve output **CN11**
- User interface inputs/outputs CN12
- Overflow/tank level/board feed input **CN15**
- User interface inputs/outputs and hood/door sensor input **CN16**





- CN2 Pressure/atmospheric dishwasher solenoid valve connection
- CN3 Detergent/rinse aid dispenser outputs
- CN5 Tank/boiler temperature sensor inputs
- CN7 Detergent/rinse aid level sensors input
- CN8 Energy peak controller input
- CN9 Salt receptacle drain pump and low pressure solenoid valve outputs
- CN11 Brine solenoid valve output
- **CN12** User interface inputs/outputs
- CN15 Overflow/tank level/board feed input
- CN16 User interface inputs/outputs and hood/door sensor input
- CN17 Door microswitch connection

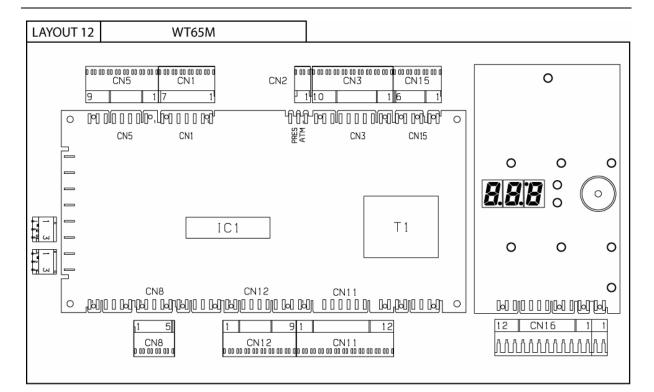


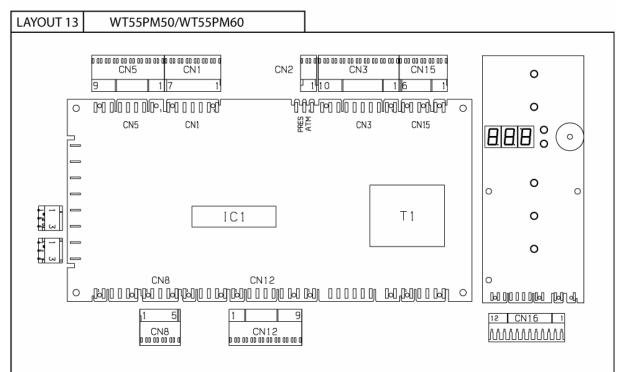


CN1 Rinse pump/wash pump/solenoid valve outputs

- CN2 Pressure/atmospheric dishwasher solenoid valve connection
- **CN3** ECOTEMP transformer and detergent/rinse aid dispenser outputs
- CN5 Tank/boiler temperature sensor inputs
- CN7 Detergent/rinse aid level sensors input
- **CN8** Energy peak controller input
- **CN9** Salt receptacle drain pump and low pressure solenoid valve outputs
- CN11 Door lock electromagnet and brine solenoid valve output
- CN12 User interface inputs/outputs
- CN15 Overflow/tank level/board feed input
- CN16 User interface inputs/outputs and hood/door sensor input
- CN17 Door microswitch connector







CN1 Rinse pump/wash pump/solenoid valve outputs

- CN2
- Pressure/atmospheric dishwasher solenoid valve connection ECOTEMP transformer and detergent/rinse aid dispenser outputs CN3
- CN5 Tank/boiler temperature sensor inputs
- Energy peak controller input CN8
- Hood lock electromagnet output **CN11**
- **CN12** User interface inputs/outputs
- **CN15** Overflow/tank level/board feed input
- **CN16** User interface inputs/outputs and hood/door sensor input



13. ALARM MESSAGES AND TROUBLESHOOTING

A Alarms that stop the dishwasher

R	1	Want of water
		Is the water cock open?
		Does the water load solenoid valve work?
		Is the water feed flow a min. of 5 l/min?
		Is the water inlet filter clean?
		Is the load solenoid valve filter clean?
		Is the overflow inserted?
		Is the main board (ATM-PRES) CN2 connector correctly positioned?
		Do the tank/boiler pressure switches work properly?

B Alarms that don't stop the dishwasher

4	1	Drain not efficient
		Has the overflow been removed?
		Is the water drain blocked?
		Is the drain pump blocked? Are the air trap and tank pressure switch clean?
		Is there a constriction in the drain tube?
		Is the pump breather pipe returning to the tank clogged or constricted?
		Does the tank pressure switch work properly?
		Is there a hole in the drain tube (only for versions with drain pump)?
5	Z	Overflow alarm
		Is the water drain blocked?
		Are the air trap and tank pressure switch clean?
		Does the tank pressure switch work properly? Is the load solenoid valve blocked? (E1 - LOAD EV)
		Is the load solenoid valve blocked? (ET - LOAD_EV)



C Alarms that stop the functioning and suggest to call the service

[Boiler temperature rise too fast
	Does the boiler level sensor work properly? The boiler could be empty. Are non-original power resistances installed?
	Boiler temperature too high
	Has the boiler temperature been changed (b t l - increased above 90°C)? Has the software alarm value been modified (bH i)? Does the boiler level sensor work properly? Is the boiler relay stuck (see RL2, RL3, RL4)?
	Tank temperature too high
	Is the feed water above 60°C? Has the software alarm value been modified (bH i)? Is the rinse water temperature too high? Is the tank relay stuck (RL5 - TUB_HEAT)?
	Tank temperature sensor out of order
	Is the temperature sensor broken or disconnected (NT1)? Is the temperature sensor connector correctly inserted?
[]	Tank temperature sensor out of order
	Is the temperature sensor short-circuited (NT1)?
[8	Boiler temperature sensor out of order
	Is the temperature sensor broken or disconnected (NT2)? Is the temperature sensor connector correctly inserted?
[Boiler temperature sensor out of order
	Is the temperature sensor short-circuited (NT2)?
[[During rinse phase boiler doesn't empty
	Are the rinse arms clogged? Does the rinse pump work correctly? Is there water in the level sensor tube? Is there scale in the boiler? Does the boiler level sensor work properly? <u>CAUTION:</u> RESETTING THIS ALARM WITHOUT FIRST ELIMINATING THE CAUSE IS DANGEROUS; THE BOILER HEATING ELEMENTS COULD WORK DRY, FURTHER DAMAGING THE INTERNAL PARTS OF THE DISHWASHER. <u>CAUTION:</u> 18 IT MUST BE MANUALLY RESET AFTER ELIMINATING THE CAUSE OF THE MALFUNCTION.
[]	Automatic hood out of order
	See par. C1 - Alarm codes for automatic hood type dishwashers.



C.1 – Alarm codes for automatic hood type dishwashers

When the alarm 2 appears, to facilitate fault-finding another parameter providing a more detailed indication has been introduced.

The parameter is \mathcal{R} and is found in the $\mathcal{A}\mathcal{B}\mathcal{G}$ family.

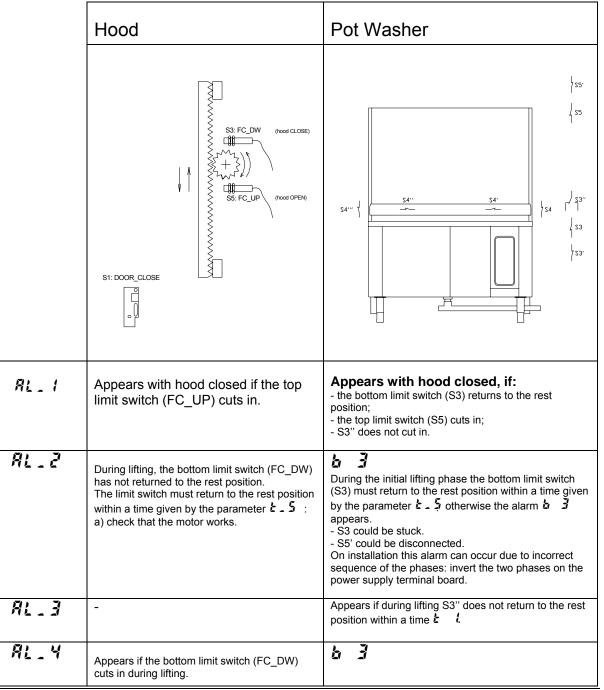
The possible cause of the anomaly can be found (see table below) according to the value of the parameter R .

With pot washers the cause that generated a $b \vec{J}$ type alarm can also be found.

E.g.: With an automatic hood type the alarm $\begin{bmatrix} 2 \\ -3 \end{bmatrix}$ appears.

Access the parameter $\Re L$ in the $d \mathfrak{b} \mathfrak{b}$ family.

 $\Re L$ \Im \Rightarrow the top limit switch could be disconnected or interrupted.





	(Polarity/motor rotation direction inverted?!).	Appears if the bottom limit switch (S3) cuts in during lifting.
		On installation this alarm can occur due to incorrect sequence of the phases: invert the two phases on the power supply terminal board.
86.5	TIMEOUT- The time taken for hood lifting was more than the time fixed by parameter $\boldsymbol{\xi} = \boldsymbol{\xi}$: a) check that the motor works.	TIMEOUT- The time taken for lifting was more than the time fixed by parameter Check correct operation of the: a) motor (thermal protection N7); b) top limit switch (S5 and S5').
<i>AL_</i> 6	The hood is open but the bottom limit switch (FC_DW) has cut in.	Appears with hood fully open, if: - the limit switch (S5) returns to the rest position; - the bottom limit switch (S3) cuts in; - S3" cuts in.
<i>8L_</i> 7	Appears if with hood fully open the "door closed" microswitch cuts in.	Appears if with hood fully open the "door closed" microswitch cuts in. - S5 could be disconnected.
AL 8	During lowering, the top limit switch (FC_UP)	b 3
	has not returned to the rest position. The limit switch must return to the rest position within a time given by parameter $\boldsymbol{\xi} = \boldsymbol{\xi}$: a) check that the motor works; b) (Polarity/motor rotation direction inverted?!).	During the initial lowering phase the top limit switch (S5) must return to the rest position within a time given by the parameter $\boldsymbol{\xi} \cdot \boldsymbol{\xi}$ otherwise the alarm $\boldsymbol{b} \cdot \boldsymbol{J}$ appears. - S5 could be stuck. - S3' could be disconnected.
		On installation, this alarm can occur due to incorrect sequence of the phases: invert the two phases on the power supply terminal board.
RL_9	-	Appears if the bottom limit switch S3 cuts in before S3" during lowering.
AL_10	Appears if the top limit switch (FC_UP) cuts in during lowering.	b 3
	(Polarity/motor rotation direction inverted?!).	Appears if the top limit switch (S5) cuts in during lowering.
		On installation, this alarm can occur due to incorrect sequence of the phases: invert the two phases on the power supply terminal board.
RL_11	TIMEOUT- The time taken for hood closing was more than the time fixed by parameter $\mathbf{k} = \mathbf{k}^2$: a) check that the motor works.	TIMEOUT- The time taken for lowering was more than the time fixed by parameter $\boldsymbol{\xi} = \boldsymbol{\xi}^2$. - S3' could be disconnected.
AL_ 12	-	Appears during hood lowering if, after S3" cuts in, the bottom limit switch S3 does not cut in within the time fixed by parameter $\boldsymbol{\xi} = \boldsymbol{3}$.
AL_ 13	-	The two hand safety contacts K and K' must be both closed or both open. If this does not occur the alarm appears. - One of the two relays (K or K') could be stuck or disconnected. (See parameter $\xi = \frac{4}{3}$)



Limit switch combination not allowed: top limit switch (FC_UP) and bottom limit switch (FC_DW) activated at the same time!	Limit switch combination not allowed. Appears if one of the following combinations occurs: - top limit switch (S5) and bottom limit switch (S3) both activated (S3 and S5 could be disconnected); - top limit switch S5 and S3" both cut in; - bottom limit switch (S3) cut in but not S3".
During lifting, the current absorbed by the lifting motor has exceeded the threshold (see parameter <i>ich</i>): a) excessive mechanical force during lifting.	-
During lowering, the current absorbed by the lifting motor has exceeded the threshold (see parameter <i>I</i> th): a) excessive mechanical force during lowering.	-
The hood should be stopped but the card detects a high current absorption by the lifting motor: a) the relay RL18/RL19 could be stuck; b) feeder connector CN32 could be	-
	 top limit switch (FC_UP) and bottom limit switch (FC_DW) activated at the same time! During lifting, the current absorbed by the lifting motor has exceeded the threshold (see parameter 12 h): a) excessive mechanical force during lifting. During lowering, the current absorbed by the lifting motor has exceeded the threshold (see parameter 12 h): a) excessive mechanical force during lifting. During lowering, the current absorbed by the lifting motor has exceeded the threshold (see parameter 12 h): a) excessive mechanical force during lowering. The hood should be stopped but the card detects a high current absorption by the lifting motor: a) the relay RL18/RL19 could be stuck;



D Alarms that don't stop the functioning, but suggest to call the service

E 1	Communication error
	Is the connection between main board and control panel correct? Are the connectors correctly connected? Are connector contacts clean?
82	Tank temperature low
	Does the tank heating element work properly?
	Are the connectors correctly connected?
	Are the dishwasher feed voltage and current correct? Is the relay RL5 on the board disconnected or faulty?
83	Boiler temperature low
	Does/do the boiler heating element/s work properly?
	Are the connectors correctly connected? Does the possible remote control switch connected to the heating element work correctly? Is there power at the remote control switch input terminals? Does relay RL2 on the board work properly?
	<u>CAUTION:</u> IF THERE IS A MALFUNCTION ON RELAY RL2 AND THE BOILER HEATING ELEMENTS ARE FED BY MEANS OF A REMOTE CONTROL SWITCH, THE BOARD DOES NOT HAVE TO BE REPLACED; JUST MOVE THE BOILER HEATING ELEMENT CONNECTOR TO ONE OF THE TWO FREE POSITIONS ON THE BOARD.
	<u>CAUTION:</u> WHEN ONE BRANCH OF THE HEATING ELEMENT DOES NOT WORK AND THE OTHER TWO CONTINUE TO FUNCTION, ON REACHING THE SET TEMPERATURE VALUE, ALARM 3 DISAPPEARS AND REAPPEARS IN THE SUBSEQUENT RINSE PHASE. THIS ALSO OCCURS WHEN A PHASE IS MISSING.



E Alarms that stop the dishwasher for models with incorporated continuous water softener

FZ (Water softener operation errors				
	This alarm appears in case of malfunctioning in the continuous water softener.				
FZZ	Communication errors between the mother board and softener board				
	This alarm appears in case of problems in communication between the mother board and water softener board; check the connection between mother board connector J1 and water softener connector ST8.				

To facilitate the finding of faults signalled by alarm $F \stackrel{\frown}{=} I$, another parameter providing a more detailed indication of the possible cause of malfunction has been introduced in the $\Gamma \stackrel{\frown}{=} I$ family (see table below).

FZ ; ;	Water softener conductivity sensor short-circuit
	Two or more water softener conductivity sensors are short-circuited. Check the connections between the water softener board and sensors, replacing the connection wiring if necessary.
F212	Water softener conductivity sensors open
	One or more water softener conductivity sensors are disconnected. Check the connections between the water softener board and sensors, replacing the connection wiring if necessary.
F213	Resin temperature sensor malfunction
	Replace the water softener electronic board.
FZ 1 4	Water softener electronic board malfunction
	Replace the water softener electronic board.
F21 6	Salt water filling malfunction
	The salt water container in the water softener was not completely filled within the set max. filling time. Make sure: - the water cock is open - the water filling solenoid valve works correctly - the salt container solenoid valve works correctly - the feed water pressure is at least 50 kPa / 0.5 bar - the water inlet filter is clean - the filling solenoid valve filter is clean - the salt container cap is properly closed - the mother board (ATM-PRES) connector CN2 is correctly positioned - the water softener board connector ST5 is correctly positioned.
FZ 1 7	Inefficient resin washing
	After carrying out the maximum permissible number of resin washes, the resins are not sufficiently cleaned by the salt water used to regenerate them. Make sure: - the water filling solenoid valve works correctly - the feed water pressure is at least 50 kPa / 0.5 bar - the water inlet filter is clean - the filling solenoid valve filter is clean - the mother board (ATM-PRES) connector CN2 is correctly positioned.