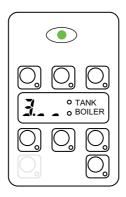
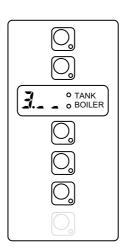


SERVICE MANUAL







CONTENTS: This document contains the instruction to change parameter settings of electronic

board by means of user interface.

EDITION: 03.2010

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1 KEYBOARDS

1.1 HOOD TYPE Style

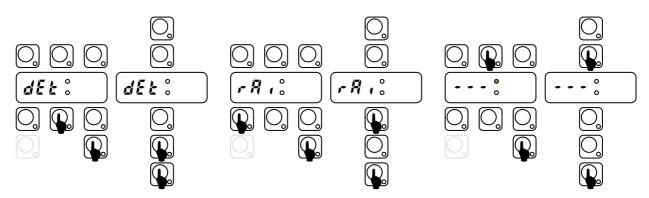


Fig. 1 Detergent dispenser Manual Activation.

Fig. 2 Rinse Aid Dispenser Manual Activation

Fig. 3 Rinse Pump Manual Activation (used to EMPTY BOILER)

SETTING MODES:

To enter into one setting mode (Figure 4),(Figure 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.

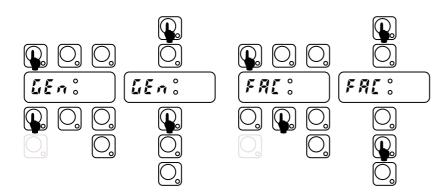


Fig. 4 Enter into General Parameters (Hold down buttons for at least five seconds).

Fig. 5 Enter into Factory
Parameters (Hold down buttons for at least five seconds)..

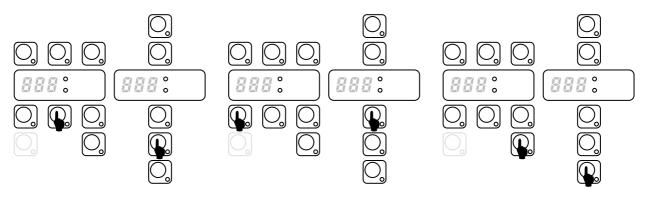


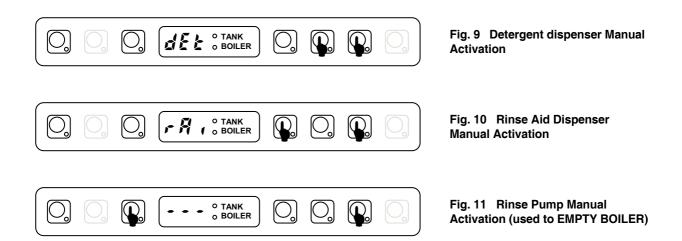
Fig. 6 Next Parameter Family OR Increase Parameter Value(In setting mode only)

Fig. 7 Decrease Parameter Value(In setting mode only)

Fig. 8 Confirm Value and go to next Parameter (In setting mode only).

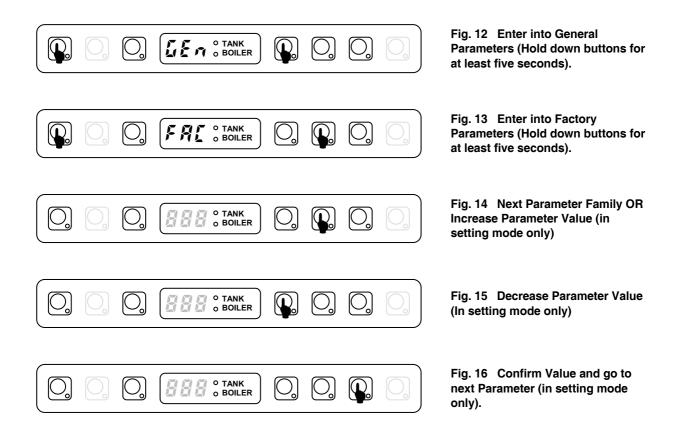
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1.2 UNDERCOUNTER Style



SETTING MODES:

To enter into one setting mode (Figure 12), (Figure 13) 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.

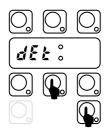


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2 MANUAL ACTIVATION OF DETERGENT AND RINSE AID DISPENSERS

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

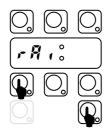
2.1 Detergent Dispenser Activation



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

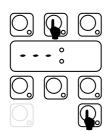


Switch on the dishwasher.

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.

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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.

4.1 LEn General Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
din	Initial Detergent Dosage (during filling tank)	[s]	0	240	90
rin	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
rā,	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 <u>ufactorized</u> (Figure 17);
- Press CYCLE_INFINITE. The display shows alternatively the symbol dln and the duration in seconds (Figure 18) and (Figure 19);
- 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 (Figure 19);
- After settled the duration press CYCLE_INFINITE key to <u>store value</u>. The display shows the next parameter (Figure 20) and the corresponding value (Figure 21);
- · In the same way is possible to change the other duration; when finished switch OFF and switch ON.

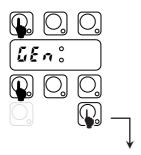
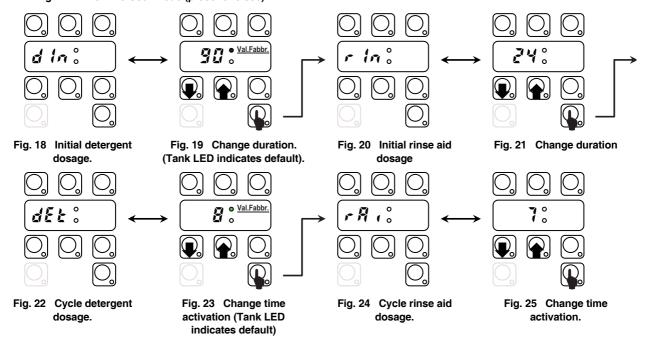


Fig. 17 Enter into User Mode (press for 5 sec)..



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(*) Note for external dispensers:

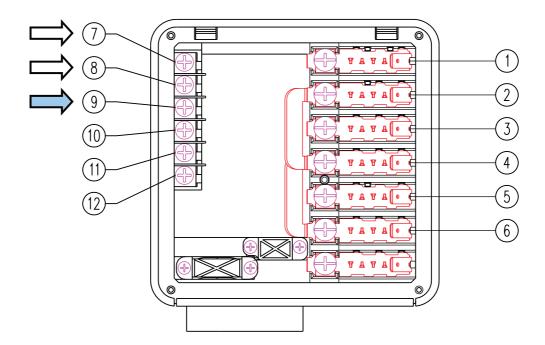
the **detergent dispenser** works when **WASHING PUMP** is being activated; at the same time voltage is supplied between connectors L1₇-L1₉ (main terminal box);

if detailed the detergent dispenser works when LOADING EV is being activated to re-fill boiler level; at the same time voltage is supplied between connectors L1₇-L1₉ (main terminal box);

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 **L1₈–L1₉** (main terminal box);

the **rinse aid dispenser** works when **WASHING PUMP** is being activated; at the same time voltage is supplied between connectors L1₈–L1₉ (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: 0 the dispenser is not activated during filling tank.

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

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5 COUNTERS

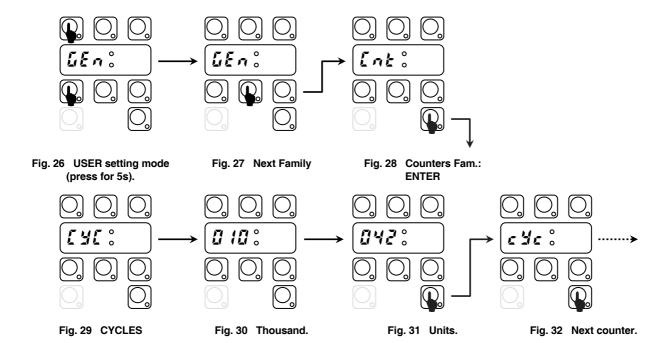
This Parameter Family collects cycle counters and water consumption counters.

For water consumption counters a flow meter must be installed. See PPL (calibration parameter) into dPR section (8 OTHER PARAMETERS).

5.1 [nt Counters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
E 4E	Cycles performed counter. LYL symbol and two numbers blink consecutively. The cycle number is obtained by joining the two numbers. Ex. LYL i	-			
e 4e	Cycle counter (resettable). This counter is similar to Lyc but is resettable by user (see reparameter below).	-			
nne	Water Consumption (only for dishwashers with incorporated continuous water softener). Counts m ³ of water consumption.	[m ³]			
Ł	Water Consumption (only for dishwashers with incorporated continuous water softener). Counts litres of water consumption. The total consumption is given by adding $\textit{nne}\ [m^3]$ and $\textit{lne}\ [l]$ values.	[1]			
Lik	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 5 E	Reset resettable counters: \mathcal{L} and \mathcal{L} is used to count cycles for \mathcal{L} will show zero. Note that \mathcal{L} is used to count cycles for \mathcal{L} message (see next parameter, \mathcal{L}).	-			
n[¥	Store thousand of cycles after that the message appears on display. Ex. If this parameter is settled to 20, the message appears when the reach 20.000 cycles.	-			
drn	Drain/Cleaning cycles performed. Similar to £ ¥£ but counts Cleaning Cycles.	-			
-[4	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 9.4 DISHWASHER WITH INCORPORATED CONTINUOUS WATER SOFTENER]. ** only counts efficient regeneration cycles, i.e. those carried out with salt in the special container (only for dishwashers with incorporated continuous water softener)	-			
r E S	Counter of regeneration cycles done without salt in the special container. (only for dishwashers with incorporated continuous water softener) [See paragraph 9.4 DISHWASHER 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.

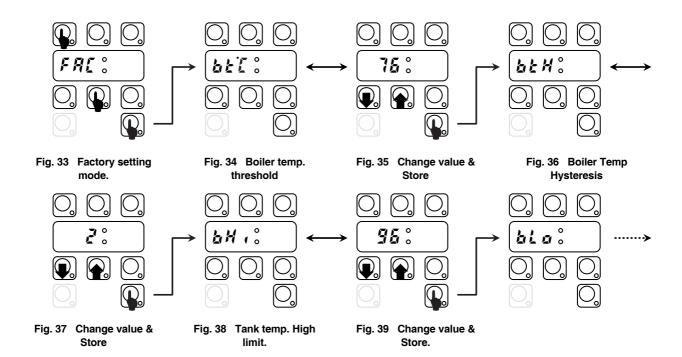
6.1 FAC Factory Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
bel	Boiler Temperature: THRESHOLD. When boiler temperature reaches this value, heaters switch off.	[°C]	45	95	78
66 H	Boiler Temperature HISTERESIS, (represent dead band). Heater switch on if boiler temperature is below: b t - b t H	[°C]	2	10	2
6H 1	Boiler Temperature: HIGH LIMIT. When boiler temperature reaches this value alarm appears. Put 0 to disable alarm.	[°C]	0	98	96
bla	Boiler Temperature: LOW LIMIT. During boiler warm-up, temperature must increase at least b c o °C otherwise f warning appears. Put 0 to disable f warning.	[°C]	0	10	1
bfl	Boiler Filling Timeout. If filling time is longer than b f i , f i alarm appears. Put 0 to disable f i alarm.	[min]	0	42	5
BAU	Boiler Temperature Adjust.	[°C]	0	7	4
6P	Boiler Priority (enable boiler wait function) 0=disabled 1=enabled	-	0	1	1
65t	Booster Function Overheat gap over Boiler Temperature Threshold	[°C]	0	15	2
btd	Boiler temperature negative differential: when the dishwasher is in standby, boiler threshold becomes: bt compared to save energy during machine inactivity by keeping boiler water at a lower temperature).	[°C]	0	20	0
ttl	Tub Temperature: THRESHOLD When tank temperature reaches this value, heater switch off.	[°C]	40	85	63
EEH	Tub Temperature: HISTERESIS, (represent dead band). Heater switch on if tank temperature is below: * * * * * * * * * * * * * * * * * * *	[°C]	2	30	5
Ł# i	Tank Temperature: HIGH LIMIT. When tank temperature reaches this value alarm appears. Put 0 to disable alarm.	[°C]	0	95	75
tia 	Tank Temperature: LOW LIMIT. During tank warm-up, temperature must increase at least \$\delta \cdot \c	[°C]	0	10	1
ŁFL	Tank Filling Timeout. If filling time is longer than	[min]	0	42	20

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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 (Figure 33);
- Press CYCLE INFINITE. The display shows alternatively the symbol **b t** (Figure 34) and the corresponding value **75** (Figure 35);
- Use CYCLE_1 key to decrease the value and CYCLE_2 key to increase (Figure 35);
- Press CYCLE INFITE key to <u>confirm</u>. The display shows the next parameter (Figure 36) and the corresponding value (Figure 37);
- 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 * * * and by pressing CYCLE_2 key (Fig. 41) is possible to change cycle duration (see paragraph 7 CYCLE SETTING).

).

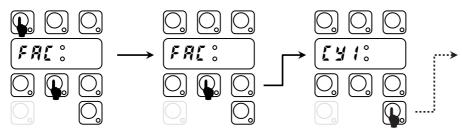


Fig. 40 Factory setting Fig. 41 Next Family Fig. 42 Cycle 1 Family: mode ENTER.

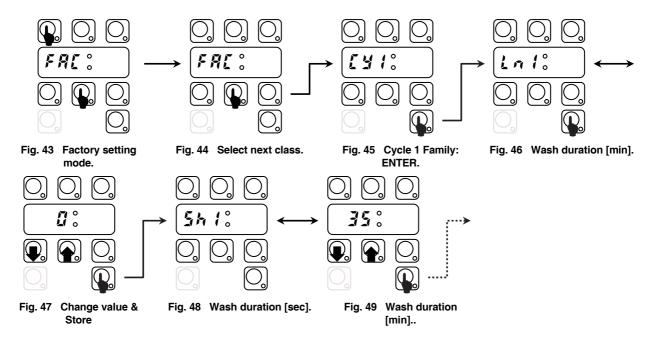
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7 CYCLE SETTING

IIn this paragraph is explained how to change cycle phases duration (see paragraph 7.1 CYCLE DIAGRAM).

- · 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 (Figure 43);
- · Press CYCLE 2 key to select CYCLE 1 parameters.
- Press CYCLE_INFINITE. The display shows alternatively the symbol $\[\[\] \cap \] \]$ (Figure 46) and the corresponding value $\[\] \cap \[\] \]$
- Use CYCLE_1 key to increase the value and CYCLE_2 key to decrease (Figure 47);
- Press CYCLE_INFINITE key to <u>confirm</u>. The display shows the next parameter (Figure 48) and the corresponding value (Figure 49);
- 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 (Figure 50), (Figure 51) and so on.

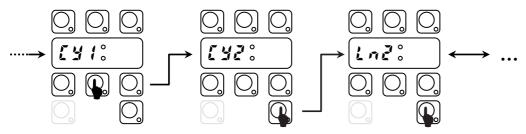


Fig. 50 Cycle 1 Parameters. Fig. 51 Cycle 2 Parameters: Fig. 52 Wash duration [min]. ENTER.

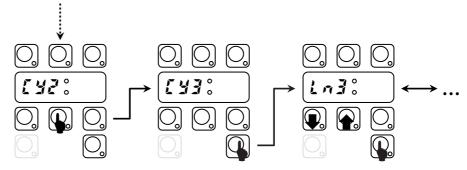


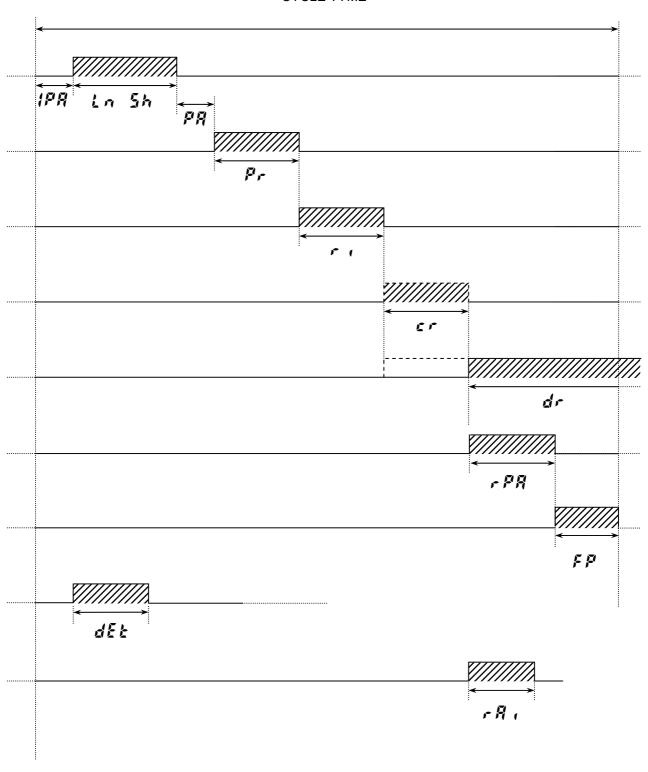
Fig. 53 Cycle 2 Parameters: Fig. 54 Cycle 3 Parameters: Fig. 55 Wash duration [min]. next Family ENTER

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7.1 CYCLE DIAGRAM

CYCLE TYME



LEGENDA:

1 n 5 h = wash

 $P_r = \text{pre rinse}$

r = rrinse

ರ್ಷ = drain

r PR = rinse pause

FP = final pause

dEE = detergent

rR = rinse aid

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7.2 [4] Cycle 1 Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
Lal	Wash Phase Long	[min]	0	20	0
5h /	Wash Phase Short	[s]	1	60	35
PR (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 1	Drain	[s]	0	40	16
FP !	Final Pause at End of Cycle	[s]	0	60	0

7.3 [4] Cycle 2 Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
Lne	Wash Phase Long	[min]	0	20	0
She	Wash Phase Short	[s]	1	60	45
PAZ	Pause	[s]	0	20	4
8-5	Pre-rinse Duration	[s]	0	30	0
ام الم	Rinse Phase Duration	[s]	10	45	16
6 - 5	Cold Rinse Phase Duration	[s]	0	50	0
dre	Drain	[s]	0	40	16
FP2	Final Pause at End of Cycle	[s]	0	60	0

7.4 [43] Cycle 3 Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
End	Wash Phase Long	[min]	0	20	1
543	Wash Phase Short	[s]	1	60	40
FRA	Pause	[s]	0	20	4
Pr3	Pre-rinse Duration	[s]	0	30	0
r 13	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
663	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

7.5 dra 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
drt	Drain without cleaning cycle	-	0	1	0

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8 OTHER PARAMETERS

8.1 **dPR** Dishwashing Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
IPA	Initial Pause before start washing (for ALL cycles)	[s]	0	10	0
417	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 PR	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
rıŁ	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 [present up to software version 3.12].	[p/l]	0	255	0
[dE	Number of wash cycles performable without detergent (only for dishwashers with external detergent level sensor – par. 9.3 DETERGENT AND RINSE AID LEVEL SENSORS ACTIVATION) [L £ 5 : 1]	-	0	5	5
ILE	Pressure sensor threshold 1 [present up to software version 2.11].	-	0	255	140
145	Pressure sensor histeresis 1 [present up to software version 2.11].	-	0	255	50
21 E	Pressure sensor threshold 2 [present up to software version 2.11].	-	0	255	140
245	Pressure sensor histeresis 2 [present up to software version 2.11].	-	0	255	50

Note: *ILE*, *IH5*, *ELE*, *EH5* parameters emulates a two levels pressure switch, keep in mind that value doesn't correspond to a physical quantity.

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8.2 ran Read Only Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
r E L	Main Board Firmware Release	-	-	-	-
-15	Water softener board software version. (only for dishwashers with incorporated continuous water softener).	-	-	-	-
REE	Active column: indicates through which of the two continuous water softener columns boiler filling is being carried out: 0 = column A and 1 = column B (only for dishwashers with incorporated continuous water softener).	-	-	-	-
[A::	When FRII message appears, the parameter value becomes 3. After maintenance, to clear FRII message, insert 0.	-	-	-	-
[8	When E alarm appears, the machine is frozen and this parameter is 3. After maintenance (see alarm codes document), insert 0 to enable the machine.	-	-	-	-
FZI	This alarm appears in case of malfunctioning in the continuous water softener. To facilitate fault-finding, see par. 13.3 ALARMS THAT DON'T STOP THE DISHWASHER FOR MODELS WITH INCORPORATED CONTINUOUS WATER SOFTENER.	-	-	-	-

8.3 **HEP** Communication and HACCP Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
5 <i>E</i> r	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 11 = Machines with incorporated continuous water softener that communicate with LK485 board 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
66	HACCP 'Basic' (printer) Boiler temperature: high limit.	[°C]	45	95	90
5 8	HACCP 'Basic' (printer) Boiler temperature: gap below high limit.	[°C]	0	20	10
Ł Ł	HACCP 'Basic' (printer) Tank temperature: high limit.	[°C]	35	75	68
Ł H	HACCP 'Basic' (printer) Tank temperature: gap below high limit.	[°C]	0	20	10

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8.4 **LF** Configuration Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
ŁУР	Dishwasher Model: 0 = HOOD TYPE & UNDERCOUNTER 1 = POT WASHER 2 = AUTOMATIC POT WASHER 3 = MEDICAL LINE DISHWASHER WITH LOCK DOOR/HOOD DEVICE	-	0	3	0
bai	Boiler type: 0 = ATMOSPHERIC BOILER 1 = PRESSURE BOILER 2 = EXTERNAL BOILER	-	0	2	0
<i>ជ</i> ១១	Door type: 0 = AUTOMATIC HOOD 1 = MANUAL HOOD 2 = FRONT LOADING 3 = POT WASHER		0	3	1
dFL	Default model (see Default tables): 1 = HOOD TYPE 2 = POT WASHER 3 = UNDERCOUNTER	-	0	3	-
tre	Solid State Relay (TRIAC). 0 = not enabled; 1 = SOFT START enabled; 3 = SLOW SOFT START enabled (works only on boards with Solid State Relay).	-	0	3	0
b_t	Boiler/Tank heating swap: 0 = boiler heaters and tank heater can work simultaneously; 1 = swap enabled: tank heating starts only boiler temperature is reached; (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).	-	0	1	1
btf	Tank Filling Mode Enable filling tank by means of rinsing cycles. Ex: b b = 75 means that boiler water is heated at 75°C, then follows a rinse phase and so on until tank is full. If b b = 0 the tank is filled by solenoid valve in the traditional way (On machines with incorporated continuous water softener, even if b b = is set to 0, filling occurs through subsequent rinses).	[°C]	0	85	75
LES	Detergent Level Switches 0 = level switches not enabled; 1 = enable detergent level switches;	-	0	1	0
ប រ	USER INTERFACE MODEL 8 = ACTIVE function disabled (up to version 3.11 [up to serial nr. 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. 42100099] set to 5) 15 = LS5 with pressure boiler (user interface without display); (up to version 3.11 [up to serial nr. 42100099] set to 7) 24 = LS5 with atmospheric boiler (From Ser. Nr.: 821). See parameter	-	0	15	9

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rE	Enable "regeneration cycle" key (only for dishwashers with non-continuous water softener) [See paragraph 9.1 RESIN REGENE-RATION CYCLE].	-	0	1	0
Alr	ALARMS ENABLE 0 = alarms disabled (to disable also warnings see b a and b and	-	0	1	1
886	Air gap with float level sensor normally closed (the level sensor is closed when the boiler is empty). E.g. the boiler level sensor for machines with incorporated continuous water softener.	-	0	1	0
FrG	Forced start of a resin regeneration cycle (only for dishwashers with incorporated continuous water softener). [See paragraph 9.4 DISHWASHER WITH INCORPORATED CONTINUOUS WATER SOFTENER].	-	0	2	0
Srll	Max. rinse water hardness (only for dishwashers with incorporated continuous water softener). After modifying, disconnect and reconnect the machine's main power supply by means of the main switch. [See paragraph 9.4 DISHWASHER WITH INCORPORATED CONTINUOUS WATER SOFTENER].	°fH	4	14	10
bpa	Boiler heating control. Defines the max. permissible temperature difference during boiler heating in a time interval of 2 minutes and 30 seconds.	°C	25	80	50

8.5 db Parameters for automatic hood type dishwashers

Sy	m.	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	Ž	HOOD_TOUT TIMEOUT – max. time allowed for complete hood opening/closing.	0.1 s	0.0 s	20.0 s	200
Ŀ	3	DELAY_K1_S3 During hood lowering, firstly S3" must cut in and then after a time \$\mathbf{t} 3 \$.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	5	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
ĦĮ.		Displays the last alarm code relative to automatic hood type dishwashers.	-	-	-	0
18	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

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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 $\mathcal{L} F \mathcal{L}$) must be set to 1.

At this point you can enter the number of wash cycles that can be performed after each regeneration: parameter $r \in \mathcal{I}$ in the counters family $f \cap f$. If $r \in \mathcal{I}$ is set to zero the counter is disabled, otherwise after the preset number of cycles the message $r \in \mathcal{I}$ 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 $nr \xi$ in the $\xi n \xi$ 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 $\xi \circ d$ followed by $\xi \circ d$ and $\xi \circ d$, at the end of the next wash cycle the display shows $\xi \circ d$ and $\xi \circ d$, 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.

WARNING:

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 $\xi \mathcal{F}$ (in the $\xi \mathcal{F} \mathcal{L}$ family) must be set to \mathcal{I} .

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^{PB} (in the d^{PB} 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 P^{P} (, P^{P}). 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 (P^{P}), P^{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 $\mathcal{L} \mathcal{E} \mathcal{S}$ (in the $\mathcal{L} \mathcal{F} \mathcal{L}$ 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 $\mathcal{F} \mathcal{B} \mathcal{L} \mathcal{L}$ appears on the display.

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When the detergent inside the tank is finished, the message $d \in \mathcal{L}$ is displayed and after a number of wash cycles equal to $\mathcal{L} d \mathcal{E}$ (in the $d \mathcal{P} \mathcal{R}$ 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 $\frac{3}{5}$ $\frac{1}{5}$ (in the $\frac{1}{5}$ $\frac{1}{5}$ family) to the value $\frac{3}{5}$ or the value $\frac{1}{5}$ if the water softener board is connected to the LK485 board.

For the continuous softener to work properly the resins must be regenerated periodically with a frequency depending on the hardness of the inlet water, the number of wash cycles carried out and the max. hardness set with the parameter $\mathbf{S} \cdot \mathbf{U}$ (in the $\mathbf{L} \cdot \mathbf{L}$ family).

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 coarse 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 messages 5% or 5% for a displayed at the start or end of a wash cycle. The salt container holds up to 1.5 kg of salt

WARNING:

Use only coarse salt with a NaCl purity grade of 99.8 %. The use of salt with a lower purity grade may cause the sale container filter to clog and the water softener to malfunction.

WARNING:

The messages 5AL 0 or 5AL End 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 $\alpha r \xi$ in the $\xi \alpha \xi$ family of counters.

only counts regeneration cycles carried out with the salt container adequately filled; there is another counter, $r \notin S$ (in the $l \cap k$ family) that indicates the number of regeneration cycles done without salt.

If the parameter SrU is set to the value10, according to the factory setting, the water softener outlet water hardness can vary between 3° fH - 10° fH/ 1.7° dH - 5.6° dH / 2.1° cH - 7° cH.

AUTONOMY OF A COLUMN OF RESINS ACCORDING TO THE CHANGE IN INLET WATER HARDNESS, WITH OUTLET WATER HARDNESS OF 10 °fH / 5.6 °dH /7 °cH (5 ° U = 10 according to the factory setting).

°fH	°dH	°cH	Number of cycles
15	8,4	10,5	14
20	11,2	14	10
25	14	17,5	7
30	16,8	21,1	6
35	19,6	24,6	5
40	22,4	28,1	4

Maximum outlet water hardness can be modified by setting the 5 r 4 value. The outlet water hardness can be modified from the value of 4° fH to 14° fH.

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NB: To save the new water hardness value, in addition to the normal parameter modification and saving operations it is necessary to disconnect and reconnect the machine's main power supply by means of the main switch on the external board.

To do this, wait for the water softener to finish previous resin washing or regeneration operations and set the parameter F = I (I = I family) to I for regenerating column A or to I = I for regenerating column B.

Switch the machine off and on again so that it carries out complete regeneration of the set column. If previous resin washing or regeneration operations were not completed, the manual request for regeneration is not carried out.

It is possible to check which column is being used for boiler filling by querying the parameter RRL (rear family): if RRL = 0 column "A" is used, if RRL = 1 column "B" is used.

The number of litres used by the machine can be checked by querying the parameters nne (m3) and l (litres). To calculate the total number of litres used by the machine, add the nne and l values.

NB: In machines with incorporated continuous water softener, tank filling cannot be carried out through overflowing ($b \not\in F = 3$) but only by means of successive rinse cycles ($b \not\in F = 3$). Therefore the $b \not\in F$ parameter must be set to 35.

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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

- 1. With the machine **CODE** enter into the following table and read the corresponding **Prog.** number
- 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.

10.1 CODE -> Prog. TABLE

MODEL	CODE	Prog.	Layout
	400007		
WT4	Up to Ser.: 806	021	11
	From Ser.: 807	065	11
	400008		
WT4B	Up to Ser.: 806	020	16
	From Ser.: 807	064	16
	400009		
WT4D	Up to Ser.: 806	021	11
	From Ser.: 807	065	11
	400015		
WT4DB	Up to Ser.: 806	020	16
	From Ser.: 807	064	16
WT46	400016	020	16
WT4G	400017	022	8
WT4DG	400018	022	8
	400019		
WT4WS1	Up to Ser.: 806	024	21
	From Ser.: 807	066	21
	400027		
WT4BWS	Up to Ser.: 806	012	17
	From Ser.: 807	063	17
	400028		
WT4DWS1	Up to Ser.: 806	024	21
	From Ser.: 807	066	21
	400029		
WT4BDWS	Up to Ser.: 806	012	17
	From Ser.: 807	063	17
	400042		
WT4D60	Up to Ser.: 806	021	11
	From Ser.: 807	065	11
	400043		
WT4DDG	Up to Ser.: 806	036	11
	From Ser.: 807	067	11
	400100		
LS5/1	Up to Ser.: 806	021	11
	From Ser.: 807	065	11
	400102		
LS5/1 DP	Up to Ser.: 806	021	11
	From Ser.: 807	065	11
	400103		
LS5/1WS	Up to Ser.: 806	024	21
	From Ser.: 807	066	21

MODEL	CODE	Prog.	Layout
	400110		
LS5/1WSDP	Up to Ser.: 806	024	21
	From Ser.: 807	066	21
	400112		
LS5/3	Up to Ser.: 806	020	16
	From Ser.: 807	064	16
	400113		
LS5/3 DP	Up to Ser.: 806	020	16
	From Ser.: 807	064	16
	400114		
LS5/3WS	Up to Ser.: 806	012	17
	From Ser.: 807	063	17
	400115		
LS5/3WSDP	Up to Ser.: 806	012	17
	From Ser.: 807	063	17
	400117		
LS5/3WSDPD	Up to Ser.: 806	012	17
200/0110212	From Ser.: 807	063	17
LB5G	400118	022	8
LB5GDP	400119	022	8
	400124		
LS5/1DP60	Up to Ser.: 806	021	11
200/121 00	From Ser.: 807	065	11
	400125	000	
LS5/1DPAUS	Up to Ser.: 806	036	11
200/121/100	From Ser.: 807	067	11
	400126		
LS5/1DPCS	Up to Ser.: 806	036	11
200/101 00	From Ser.: 807	067	11
LS6EP	502003	013	16
LS6EP/DD	502004	013	16
LS6EA/DD	502005	011	8
LS6EA/DD/DP	502005	011	8
14/700705			
WT381DE WT38/M50	502007 502008	032 015	9
LS6EADPWS	502014	015	8
LS6EADPWSG WT38WS	502015 502016	044 044	8
WT38WSG	502016	044	8
WT38WSG WT38MEDWS	502017	044	8
WT38PM50			
	502019	039	19
WT37LEV/9	502020	051	18
LS6EADPDWS	502022	044	8
WT38DWS	502023	044	8
LS6SANA	502024	053	10

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MODEL	CODE	Prog.	Layout
WT38M50/4	502029	015	9
LS6EA/UK	502030	011	8
LS6EA/UKDP	502031	011	8
LS6EA/60	502041	011	8
WT 38DD	502110	011	8
WT 37	502111	011	8
WT 38	502112	011	8
WT 37/4.5	502117	011	8
WT 38/4.5	502118	011	8
WT 37/UK	502122	046	8
WT38C	502125	033	18
WT38C60	502126	033	18
WT38CUK	502127	033	18
WT38/4.5NW	502129	011	8
WT 38/UK	502217	011	8
WT37J60	502218	046	8
WT37J50	502219	046	8
LS6AH240U	502312	027	9
WT30H208U	502313	031	9
WT30H240U	502314	031	9
WT30H208DU	502315	027	9
WT30H240DU	502316	027	9
WT30H208RU	502317	031	9
WT30H240RU	502318	031	9
LS6H208DU	502319	027	9
LS6AH208U	502320	027	9
WT 38/60	502321	011	8
WT 38/M60	502322	015	9
WT 38MED	502323	014	8
LS6H240DU	502325	027	9
LS6H208RU	502326	027	9
LS6H240RU	502327	027	9
WT30M208U	502328	034	10
WT30M240U	502329	034	10
WT30M208DU	502339	034	10
WT30M240DU	502341	034	10
WT30M208RU	502342	034	10
WT30M240RU	502343	034	10
WT30C208DU	502344	038	9
WT30C240DU	502345	038	9
WT38PM60	502346	039	19
WT38M60/4	502347	015	9
WT30H208WS	502348	056	9
WT30H240WS	502349	056	9
WT30H208DN	502352	068	9
WT30H240DN	502353	068	9
WT38WL	502514	055	8
LS6EA	502520	011	8
LS6EA/DP	502521	011	8
LS6EAH	502523	011	8
LS6MCD	502524	033	18
LU7PDP	503020	040	24
LU7ADP	503021	041	22
LU7ADPWS	503022	061	22
WTU40PDP	503023	040	24
		1	1

MODEL	CODE	Prog.	Layout
WTU40ADP	503024	069	22
WTU40ADPWS	503025	070	22
WTU40ADPD	503026	069	22
LS 10	504100	002	1
LS14EA	504101	001	4
LS 10 UK DP	504102	002	1
ET12E	504104	003	1
LS 10/60Hz	504105	002	1
LS 10 CW	504107	002	1
LS 10 INS	504108	002	1
HT 1200 ins DEK	504109	001	1
LS14EA/INS	504110	001	4
LS 10 N	504111	002	1
LS 10 DP	504114	002	1
LS 10 HD	504115	008	1
LS14EA/AU	504116	004	15
LS14EA/60	504117	001	4
LS 10 UK1	504117	002	1
LS 10 UK3	504119	002	1
LS 12 INS	504119	001	1
LS 12 INS	504120	001	1
LS 12 LS 12 DP	504121	001	1
LS 12 60Hz	504125	001	1
LS 12 00H2	504128	001	1
HT 1200 DEK	504128	001	1
			4
LS14EA/ASIA	504131	009	-
LS14EA/G	504133	001	4
WT 60 DP	504134	001	1
WT 60	504135	001	1
WT 60 CW WT 60 UK DP CW	504136	001	1
INS	504137	001	1
WT 60 INS	504138	001	1
WT 60 CW INS	504139	001	1
WT 60 AU CW	504140	004	14
WT 60 AU N	504141	004	14
LS10EA	504142	002	4
WT 60/60HZ	504145	001	1
WT 60/60HZ CW	504146	001	1
WT 60 N	504151	001	1
WT 60 N INS	504152	001	1
LS 12 HD	504153	007	1
LS14EA/DD	504155	001	4
WT65E	504156	001	1
WT65EB	504157	001	4
WT65EI	504158	001	1
WT 60 AU DP	504159	004	14
LS 12 UK/3 CW	504161	001	1
WT 60 UK CW	504162	001	
LS 12 AU	504163	004	14
LS 12 UK DP CW	504164	001	1
ECOTEMP 12 SW	504165	001	1
WT65EBI	504166	001	4
WT65EBIA	504167	004	15
WT65EIA	504168	004	15
1	1	1	i .

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MODEL	CODE	Prog.	Layout
WT65E60	504169	001	1
WT65EB60	504170	001	4
WT 60 U/400	504171	006	
WT 60 U/440	504172	006	
WT65EBIDG	504173	001	4
WT65EBASIA	504174	009	4
WT65EIM50	504175	006	2
WT65EIM60	504176	006	2
WT 60 MX 220/60	504177	001	1
LS 12 CW INS	504178	001	1
LS14ADP/G	504179	001	4
WT65MED	504180	010	4
WT65EJ50	504183	001	1
WT65EJ60	504186	001	1
LS14AH240U	504187	028	3
WT65H208U	504188	028	3
WT65H240U	504189	028	3
LS 12 ASIACW	504190	009	1
WT 60 ASIACW	504190	009	1
LS 12 ASIANB	504191	009	+ '
WT60ASIANB	504193	009	
LS14H208DU	504194	028	3
LS14AH208U	504194	028	3
LS14H240DU	504195	028	3
LS14H208RU	504197	028	3
LS14H240RU	504197	028	3
WT65H208DU	504198	028	_
WT65H240DU			3
WT65H240D0	504200 504201	028 028	3
WT65H240RU	504201		3
WT65H240RU WT65M208U	504202	028 035	12
WT65M240U			12
	504204	035	
WT65M208DU	504205	035	12
WT65M240DU	504206	035	12
WT65M208RU	504207	035	12
WT65M240RU	504208	035	12
LS14EAWS	504209	042	4
LS14ADPWSG	504210	042	4
LS14EAIWS	504211	042	4
WT65EBWS	504212	042	4
WT65BIDWSG	504213	042	4
WT65EBIWS	504214	042	4
WT65MEDWS	504215	043	4
WT65H208WS	504216	057	3
WT65H240WS	504217	057	3
ET12EWS	504218	058	4
WT65ROW	504219	052	6
LS14ROW	504220	052	6
LS14SANA	504221	054	12
WT65EID	504222	001	4
WT65EBIWSD	504223	042	4
LS14ROW60	504224	052	6
WT65ROW60	504225	052	6
LS9P	505022	019	13
LS9P DD	505033	019	13

MODEL	CODE	Prog.	Layout
LS9A UK	505034	018	20
LS9P60	505035	019	13
WT55P	505038	019	13
WT55P6	505039	019	13
LS9ADG1	505041	018	23
WT55ADG1	505042	018	23
LS9PAUS	505043	019	13
WT55PM50	505044	019	13
WT55PM60	505045	019	13
PW1SMG	506007	005	3
PW1MG	506010	005	3
PPW1 M UK	506011	005	3
PPW1 60 Hz	506012	005	7
PW1MHG	506013	005	3
PW2MG	506014	005	3
PPW2 M UK	506015	005	3
PPW2 60 Hz	506016	005	7
PPW2 V	506017	005	
WT830 M	506018	005	3
WT830 M UK	506019	005	3
WT830M60G	506020	005	3
WT850 M	506022	005	3
WT850 M UK	506023	005	3
WT850M60G	506024	005	3
WT850 V	506025	005	
WT830MHG	506026	005	3
WT830M208U	506029	037	3
WT830M240U	506030	037	3
WT830H208U	506031	037	3
WT830H240U	506032	037	3
WT850M208U	506033	037	3
WT850M240U	506034	037	3
PW1M208U	506035	037	3
PW1M240U	506036	037	3
PW1MH208U	506037	037	3
PW1MH240U	506038	037	3
PW2M208U	506039	037	3
PW2M240U	506042	037	3
PW2SMG	506044	005	3
ET830M	506045	005	3
ET830MH	506046	005	3
ET850M	506047	005	3
PW1EAG	506207	017	5
PW2EAG	506212	017	5
WT830EA	506215	017	5
WT850EA	506216	017	5
WT830EAG	506217	017	5
WT850EAG	506217	017	5
FL5	690004	020	16
FL5DP	690005	020	16
. 2001	690006	020	10
LV5	Up to Ser.: 806	020	16
	From Ser.: 807	064	16
	1 10111 361 007	004	10

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MODEL	CODE	Prog.	Layout
WODEL	690007	riog.	Layout
LV5DP	Up to Ser.: 806	000	16
LV5DP	From Ser.: 807	020	16
		064	10
17/2/07/00	690008	040	47
LV5/3WSDP	Up to Ser.: 806	012	17
E1 -101110DD	From Ser.: 807	063	17
FL5/3WSDP	690009	012	17
UC5/1DP	690010	021	11
UC5/1WSDP	690011	024	21
LD5DP	690013	020	16
LD5	690014	020	16
UC5/1DITO	690017	021	11
UC5/1DPDITO	690018	021	11
FL5DDG	690027	067	11
FL 620EP	698003	013	16
ET5EDG	698004	023	8
LV6EP	698006	013	16
H3300	698007	029	8
H2500	698008	019	13
H3500	698009	001	4
ET5EDCW	698010	016	8
LV6EADPWS	698011	048	8
HT1200WS	698012	042	4
HT1200IWS	698013	042	4
FL620ADPWS	698014	048	8
H1310SANA	698016	030	8
H1510SANA	698017	010	4
LV1200IWS	698018	042	4
ET7ADP	698019	042	22
HT900P	698022	019	13
LV900P		019	13
	698023		
LD900	698024	019	13
FL620EAG	698026	011	8
FL620DPWSG	698027	044	8
HT900ADG1	698028	018	23
HT1200BIDG	698029	001	4
LU700PDP	698033	040	24
LU700ADP	698034	047	22
LU700ADPWS	698037	062	22
HT1200BIDWG	698038	042	4
PW100MG	698039	005	3
PW100 M	698040	005	3
PW200 M	698041	005	3
PW200 V	698042	005	3
PW100MHG	698043	005	3
LV100M	698044	005	3
LV200M	698045	005	3
PW200MG	698046	005	3
HT 1200	698050	001	4
HT 1000	698051	002	4
HT 1000 INS	698052	002	1
HT 1200 INS	698053	001	4
HT 1200 DP	698055	001	1
ET12EIG	698056	026	3
ET12EIG	698057	025	4
	333331	020	1 7

MODEL	CODE	Drog	Lavout
		Prog.	Layout
LV1000	698059	002	4
LV1200INS	698060	001	4
ET12EICWG	698061	001	3
ET12EICW	698062	025	3
ET12EIWS	698063	059	4
ET12EIF	698065	050	4
FL 620EA	698070	046	8
FL 620EADP	698071	046	8
ET5E	698076	016	8
ET5ED	698077	016	8
FL 620EP/DD	698078	013	16
FL 620EA/DD	698079	046	8
FL 620EADP/DD	698080	046	8
LV6EA	698081	046	8
LV6EADP	698082	046	8
ET5EDWS	698084	060	8
ET5EDF	698090	049	8
LS10 INS DP	S36220	002	
LS 10 INS	S37858	002	
LS 10	S39968	002	
LS 10/fiera	S42549	002	
LS 10 INS	S43062	002	
LS 10	S43327	002	
HT 1000	S475CH	002	
LS 10 CW	S47APN	002	
LS 10 CW	S47CF5	002	
LS 10 CW	S47DU4	002	
LS 10 CW	S47DU7	002	
LS 10 CW	S47DUA	002	
LS 10 CW	S47DUF	002	
LS 10 CW	S47E17	002	
LS 10 CW	S47E2C	002	
LS 10 CW	S47E2H	002	
LS 10 CW	S47E2M	002	
LS 10 CW	S47E2R	002	
LS 10 UK1	S47E50	002	
LS 10 CW	S47E6M	002	
HT1200	S46002	001	
WT 60 CW INS	S46880	001	
HT 1000	S4734M	002	
WT 60/9	S47539	001	
WT 60/9	S4756O	001	
WT 60/9	S4756P	001	
WT60 INS	S475GJ	001	
WT60 INS	S475GY	001	
WT 60 CW	S476HA	001	
LS 12 HD	S4775E	007	
HT1200	S4777U	001	
LS 12 CW INS	S477BM	001	
WT 60 AU CW	S477JR	004	1
WT 60 INS	S477M1	001	
WT 60 INS	S477M1	001	
WT 60 N INS	S477MB	001	
WT 60/60HZ DP	S477QB	001	
LS 12 CW INS	S477V7	001	
		l	

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MODEL	CODE	Prog.	Layout
WT 60 DP	S47811	001	Layout
WT 60/9	S4781D	001	_
WT 60/60HZ DP	S4781I	001	_
WT 60/9 INS	S4781P	001	_
WT 60 U/230			
LS 12 CW INS	S478KF S478LV	006	_
WT 60 CW INS	S478LV S478SP	001	_
LS 12 CW INS	S476SP S479VE	001	_
WT 60	S479VE S479Z3	001	_
WT 60	S479Z9	001	
WT 60 AU CW	S47AP80	001	
LS 12 CW	S47AP0	004	
HT 1200	S47B9I	001	
LS 12 UK/3 CW	S47BJI	001	_
LS 12 CW	S47BJI S47C1Z		_
WT 60 CW	S47C1Z S47C6B	001	_
LS 12 CW			_
	S47CCS	001	
WT 60 WT 60 CW	S47CCY S47CEA	001	
		001	
WT 60/9	S47CEH	001	
WT 60/9	S47CEI	001	
WT 60	S47CKD	001	
LS 12 CW	D04713	001	
LS 12 CW	S34369	001	
WT 60 giappone	S34377	001	
WT 60 giappone	S34378	001	
WT 60 giappone	S35178	001	
WT 60 giappone	S35179	001	
LS 12 CW	S35246	001	
HT1200	S35330	001	
WT 60 giappone	S36384	001	
WT 60 giappone LS 12 CW	S36385		
	S36846	001	
LS 12 CW HT1200	S36847	001	
	S39964	001	
HT1200	S40472	001	_
ECOTEMP 12	S40785		
WT 60/9 INS HT1200	S41170 S41185	001	
	S41185 S42032	001	
LS 12 INS		001	
WT 60/60HZ	S42170		
LS 12/fiera WT 60/60HZ	S42550	001	
	S42617	001	
WT 60 N	S43119	001	
LS12 CW	S43488	001	
LS 12 INS	S43563	001	
LS 12 DP CW	S43734	001	
LS 12 CW	S43806	001	
	S43830	001	
WT 60 CW INS	S44421	001	
LS6EA	S477BL	011	
WT 37	S4784U	011	
LS6EA	S4787B	011	
FL 620EA	S478BN	011	
WT830 MH	S46881	005	

MODEL	CODE	Prog.	Layout
PPW1 M	S4758V	005	
WT830 MH	S476YZ	005	
PPW1 MH	S477IT	005	
WT830 M	S479QS	005	
PPW1 M UK	S47BKQ	005	
WT 60 CW INS	S47CPB	001	
WT 60 CW INS	S47CQS	001	
ECOTEMP 12 SW	S47CVG	001	
ECOTEMP 12 SW	S47CVH	001	
WT 60 CW INS	S47D9Y	001	
WT 60	S47DCA	001	
LS 12 CW	S47DE0	001	
LS 12 CW	S47DMM	001	
WT 60	S47DSK	001	
WT 60	S47DWC	001	
WT 60	S47DWD	001	
PPW1 MH	S47C37	005	
	S499BK	064	16

WARNING:

When modifying parameter dFL, all the parameters (except those belonging to the LFL family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the LFL family are not modified.

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10.2 PROGRAMMING SHEETS

ı	LS12 - LS14 / WT60 - 65 PROG (
L	.512	- L3	14	/ W100 - 03	PROG 001			
1.	Switch OFF	and then swit	ch ON th	e machine				
2.	[FG	Entrare in	CFG e	ettare i seguenti parametri.				
		ŁУР	8	Hood Type like working cycles.				
		bo i	0	Atmospheric boiler.				
		doo	1	Manual Hood.				
		dFL	1	Default values for Hood Type models.				
		trc	<i>0</i>	(for this appliance SOFT START is NOT possible).				
		b_t	1	Tank heater works only if boiler temperature reached.				
		b ef	75	Enable filling tank by means of rinsing cycles.				
		LE5	0	Detergent level switches not enabled.				
		<i>U 1</i>	9	Select user interface hood type model (up to version 3.11	set to 1).			
		rE	<i>0</i>	Regeneration cycle disabled.				
		ALr	1	Alarms enabled.				
3.	Switch OFF	and then swit	ch ON th	e machine.				
4.	Modify Factory parameters:							
	FAC	Factory p	arametei	s family.				
		PFI	78	Boiler Temperature Threshold.				
5.	Switch OFF	and then swit	ch ON th	e machine.				

L	.S10			PROG 002
1.	Switch OFF	and then switch	h ON th	ne machine.
2.	[FG	Enter into	CFG pa	rameter family and set the following parameters:
		Ł YP	0	Hood Type like working cycles.
		bo ,	0	Atmospheric boiler.
		doo	1	Manual Hood.
		dFL	1	Default values for Hood Type models.
		trc	0	(for this appliance SOFT START is NOT possible).
		b_E	1	Tank heater works only if boiler temperature reached.
		bł F	75	Enable filling tank by means of rinsing cycles.
		LE5	0	Detergent level switches not enabled.
		<i>U 1</i>	9	Select user interface hood type model (up to version 3.11 set to 1).
		r E	0	Regeneration cycle disabled.
		ALr	1	Alarms enabled.
3.	Switch OFF	and then switc	h ON th	ne machine.
4.	Modify Fact	tory parameters	s:	
	FAC	Factory pa	rametei	rs family.
		PF[78	Boiler Temperature Threshold.
5.	Modify Cycl	le parameters:		
	[41	Cycle 1.		
		5h 1	45	Short Wash Phase [s].
	[45	Cycle 2.		
		LnZ	1	Long Wash Phase [min]
		5h2	40	Short Wash Phase [s].
6.	Switch OFF	and then switc	h ON th	ne machine

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E	COT	EM	P12	PROG 003		
1.	Switch OFF ar	nd then swit	ch ON th	e machine		
2.	[F G	Enter into	CFG pa	rameter family and set the following parameters:		
		ŁУР	0	Hood Type like working cycles.		
		bo 1	0	Atmospheric boiler.		
		doo	1	Manual Hood.		
		dFL	1	Default values for Hood Type models.		
		trc	0	(for this appliance SOFT START is NOT possible).		
		b_t	0	Boiler heaters and tank heater work simultaneously		
		b ŁF	75	Enable filling tank by means of rinsing cycles.		
		LE5	0	Detergent level switches not enabled.		
		<i>u</i> 1	9	Select user interface hood type model (up to version 3.11 set to 1).		
		rE	0	Regeneration cycle disabled.		
		ALr	1	Alarms enabled.		
3.	Switch OFF and then switch ON the machine.					
4.	Modify Factory	parameter	s:			
	FAC Factory parameters family.					
		PF[<i>65</i>	Boiler Temperature Threshold.		
		ьяј	2	Boiler Temperature Adjust.		
5.	Switch OFF ar	nd then swit	ch ON th	e machine.		

LS12 AU / WT60 - 65 AU PROG 004 1. Switch OFF and then switch ON the machine. [FG Enter into CFG parameter family and set the following parameters: Hood Type like working cycles. bo . Atmospheric boiler. 0 doo Automatic Hood. 1 Default values for Hood Type models. 0 (for this appliance SOFT START is NOT possible). Tank heater works only if boiler temperature reached. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 Detergent level switches not enabled. **U** 1 Select user interface hood type model (up to version 3.11 set to 1). rE Regeneration cycle disabled. ALr Alarms enabled. 3. Switch OFF and then switch ON the machine. Modify Factory parameters: FA[Factory parameters family. PFI Boiler Temperature Threshold. 5. Modify the other parameters: [41 Cycle 1. FP 1 Final Pause [s]. [45 Cycle 2.. FP2 Final Pause [s]. **EY3** Cycle 3. FP3 2 Final Pause [s]. dPA Dishwashing parameters family. 1PR Initial Pause. 6. Switch OFF and then switch ON the machine.

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4 0	b 055 and the are soon	-l- ON 41	and a little a	
	h OFF and then swit			
2. [F		CFG pa	rameter family and set the following parameters.	
	Ł YP	1	Pot Washer.	
	bo ı	0	Atmospheric boiler.	
	doo	2	Front loading function.	
	dFL	2	Default values for Pot Washer models.	
	trc	0	(for this appliance SOFT START is NOT possible).	
	b_£	1	Tank heater works only if boiler temperature reached.	
	bef	0	The tank is filled into the traditional way.	
	LE5	0	Detergent level switches not enabled.	
	ប 1	9	Select user interface hood type model (up to version	3.11 set to <i>1</i>).
	rE	0	Regeneration cycle disabled.	
	ALr	1	Alarms enabled.	
3. Switc	h OFF and then swit	ch ON th	e machine.	
4. Modif	y Factory parameter	s:		
FA	Factory p	aramete	s family.	
	PFL	78	Boiler Temperature Threshold.	

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Switch OFF and then switch ON the machine.

WT60 - 65 USPH **PROG 006** 1. Switch OFF and then switch ON the machine. **EFG** Enter into CFG parameter family and set the following parameters. **LYP** Hood Type like working cycles. bo . Atmospheric boiler. daa Manual Hood. dFL Default values for Hood Type models. 0 (for this appliance SOFT START is NOT possible). Tank heater works only if boiler temperature reached. b_E **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. **U** 1 Select user interface hood type model (up to version 3.11 set to 1). rE Regeneration cycle disabled. ALr Alarms enabled. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAC Factory parameters family. bel 78 Boiler Temperature Threshold. 5. Modify the cycle parameters: [41 Enter into Cycle 1 parameters family. 25 Rinse Phase Duration [s] dr 1 25 Drain [s] [42 Enter into Cycle 2 parameters family. r 12 Rinse Phase Duration [s]. dr2 25 Drain [s]. EY3 Enter into Cycle 3 parameters family. 25 r 13 Rinse Phase Duration [s]. dr 3 25 Drain [s]. 6. Select Fahrenheit: dPR Enter into Dishwashing parameter family. 1 Select Fahrenheit degrees.

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LS1	2HD		PROG 007						
Switch OFF and then switch ON the machine.									
2. [F [Enter into CFG parameter family and set the following parameters.								
	F Ab	0	Hood Type like working cycles.						
	bo 1	0	Atmospheric boiler.						
	doo	1	Manual Hood.						
	dFL	1	Default values for Hood Type models.						
	trc	0	(for this appliance SOFT START is NOT possible).						
	b_t	1	Tank heater works only if boiler temperature reached.						
	bł F	75	Enable filling tank by means of rinsing cycles.						
	LE5	0	Detergent level switches not enabled.						
	<i>u 1</i>	9	Select user interface hood type model (up to version 3.11 set to 1).						
	rE	0	Regeneration cycle disabled.						
	ALr	1	Alarms enabled.						
3. Switch C	FF and then swit	ch ON th	ne machine.						
4. Modify th	ne cycle paramete	ers:							
[41	Enter into Cycle 1 parameters family.								
	Pr 1	20	Pre-rinse Duration [s].						
	dr 1	36	Drain [s].						
[45	Enter into	Cycle 2	parameters family.						
	Pr2	20	Pre-rinse Duration [s].						
	dr2	36	Drain [s].						
EY3	Enter into	Cycle 3	parameters family.						
	Pr 3	20	Pre-rinse Duration [s].						
	dr∃	36	Drain [s].						
5. Switch C	FF and then swit	ch ON th	ne machine.						

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	S10HD PROG 008								
1.	Switch OFF	and then swit	tch ON th	ne machine.					
2.	[FG	Enter into	CFG pa	rameter family and set the following parameters:					
		F Ab	0	Hood Type like working cycles.					
		bo ,	<i>0</i>	Atmospheric boiler.					
		doo	1	Manual Hood.					
		dFL	1	Default values for Hood Type models.					
		tre	8	(for this appliance SOFT START is NOT possible).					
		b_t	1	Tank heater works only if boiler temperature reached.					
		bef	75	Enable filling tank by means of rinsing cycles.					
		LE5	8	Detergent level switches not enabled.					
		ម រ	9	Select user interface hood type model (up to version 3.11 set to 1).					
		rE	0	Regeneration cycle disabled.					
		ALr	1	Alarms enabled.					
3.	Switch OFF	and then swit	tch ON th	ne machine.					
1.	Modify the	cycle paramete	ers:						
	[41	Enter into	Cycle 1	parameters family.					
		5h 1	45	Short Wash Phase [s].					
		Pr 1	20	Pre-rinse Duration [s].					
		dr 1	36	Drain [s].					
	[45	Enter into	Cycle 2	parameters family.					
		LnZ	1	Long Wash Phase [min].					
		5h2	40	Short Wash Phase [s].					
		Pr2	20	Pre-rinse Duration [s].					
		dr2	36	Drain [s].					
5.	Switch OFF	and then swit	tch ON th	ne machine.					

	S12	_ 1/	/ V	VT60 - 65 ASIA	PROG 009	
	-012	- 1-	, A	V 100 - 05 ASIA	1 1100 003	
1.	Switch OFF a	and then swit	ch ON th	e machine.		
2.	[F G	Enter into	CFG pa	rameter family and set the following parameters.		
		F Ab	0	Hood Type like working cycles.		
		bo 1	8	Atmospheric boiler.		
		doo	1	Manual Hood.		
		dFL	1	Default values for Hood Type models.		
		trc	<i>a</i>	(for this appliance SOFT START is NOT possible).		
		b_t	1	Tank heater works only if boiler temperature reached.		
		bł F	75	Enable filling tank by means of rinsing cycles.		
		LE5	<i>a</i>	Detergent level switches not enabled.		
		<i>U 1</i>	9	Select user interface hood type model (up to version 3.	11 set to 1).	
		rE	0	Regeneration cycle disabled.		
		ALr	1	Alarms enabled.		
3.	Switch OFF a	and then swit	tch ON th	e machine.		
4.	Modify Factor	ry parameter	s:			
	FAC	Factory parameters family.				
		ьŁТ	78	Boiler Temperature Threshold.		
		ЬР	0	Boiler Priority Disabled.		
5.	Switch OFF and then switch ON the machine.					

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PROG 010 WT65MED Switch OFF and then switch ON the machine. Enter into CFG parameter family and set the following parameters: **LYP** Hood Type like working cycles. bo . 0 Atmospheric boiler. 0 daa Automatic Hood. dFL 1 Default values for Hood Type models. (for this appliance SOFT START is NOT possible). 1 Tank heater works only if boiler temperature reached. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. **11** 1 9 Select user interface hood type model (up to version 3.11 set to 1). rE 0 Regeneration cycle disabled. ALr Alarms enabled. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAC Factory parameters family. PFI 90 Boiler Temperature Threshold. ьн . Disable boiler high Temperature alarm (2). ьяј Boiler Temperature Adjust. **65**Ł 0 Booster Function. 65 ££[Tub Temperature: THRESHOLD. EH . 85 Tank high Temperature limit. 5. Modify the cycle parameters: [41 Cycle 1 parameters family. 2 Lnl Long Wash Phase [min]. Short Wash Phase [s]. 5h 1 32 r 11 35 Rinse Phase Duration [s]. dr 1 40 Drain [s]. FP 1 15 Final Pause [s]. [42 Cycle 2 parameters family. LnZ 3 Long Wash Phase [min]. 5h2 32 Short Wash Phase [s]. r 12 35 Rinse Phase Duration [s]. dr2 40 Drain [s]. FP2 15 Final Pause [s]. [43 Cycle 3 parameters family. Enl 5 Long Wash Phase [min] 5h3 32 Short Wash Phase [s] r 13 35 Rinse Phase Duration [s] dr 3 40 Drain [s] FP3 15 Final Pause [s] dPR Set other parameters. 1PR Initial Pause [s]. Switch OFF and then switch ON the machine.

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	.S6 (6000	W.	ATM	PROG 011
1.	Switch OFF	and then swit	ch ON th	e machine.	
2.	[FG	Enter into	CFG pa	rameter family and set the following parameters.	
		E YP	0	Hood Type like working cycles.	
		bo ,	0	Atmospheric boiler.	
		doo	2	Front loading.	
		dFL	3	Default values for Undercounter models.	
		tre	1	SOFT START ENABLED.	
		b_t	1	Tank heater works only if boiler temperature reached.	
		b tF	75	Enable filling tank by means of rinsing cycles.	
		LE5	0	Detergent level switches not enabled.	
		<i>U 1</i>	9	Select user interface hood type model (up to version 3.1	1 set to 1).
		r E	0	Regeneration cycle disabled.	•
		ALr	1	Alarms enabled.	

LS5WS / WT4WS TRIFASE PROG 012 (Up to Ser.Nr.:806) 1. Switch OFF and then switch ON the machine. E F G Enter into CFG parameter family and set the following parameters. Hood Type like working cycles. 0 Atmospheric boiler. bo . doo Front loading door type. 3 dFL Default values for Undercounter models. SOFT START ENABLED. Tank heater works only if boiler temperature reached. 75 Enable filling tank by means of rinsing cycles. **b**EF LE5 Detergent level switches not enabled. **U** 1 Select user interface for LS5 (up to version 3.11 set to 5). rE Regeneration cycle enabled. ALr ALARMS ENABLED 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAC Enter into FAC parameter family. **b**ET Boiler Temperature Threshold. ьяЈ Boiler Temperature Adjust. b5t Booster Function. 5. Modify the cycle parameters: [43 Cycle 3 parameters family. Enl Long Wash Phase [min] 5h3 40 Short Wash Phase [s] 6. Switch OFF and then switch ON the machine. GEn Enter into GEn parameter family. d In 70 Initial Detergent Dosage [s] rin Initial Rinse Aid Dosage [s]. 8. Ent Counters. r[Y 20 Number of cycles allowed before regeneration. Switch OFF and then switch ON the machine

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LS6 PRESS PROG 013 1. Switch OFF and then switch ON the machine. Enter into CFG parameter family and set the following parameters. Ł YP Hood Type like working cycles. bo i Pressure boiler. Front loading. doo dFL 3 Default values for Undercounter models. SOFT START ENABLED. Tank heater works only if boiler temperature reached. **b**EF The tank is filled into the traditional way. LE5 Detergent level switches not enabled. **U** 1 8 ACTIVE function disabled (up to version 3.11 set to 2). rE Regeneration cycle disabled. ALr Alarms enabled. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAC Enter into FAC parameter family and change boiler threshold. PFI 86 Boiler Temperature Threshold. 5. Switch OFF and then switch ON the machine.

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		and then swit				
	[FG			meter family and set the following parameters.		
		£ YP	0	Hood Type like working cycles.		
		ьог	0	Atmospheric boiler.		
		doo	2	Front loading.		
		dFL	3	Default values for Undercounter models.		
		trc	1	SOFT START ENABLED.		
		b_t	1	Tank heater works only if boiler temperature reached.		
		bef	75	Enable filling tank by means of rinsing cycles.		
		LE5	0	Detergent level switches not enabled.		
		<i>U 1</i>	8	ACTIVE function disabled (up to version 3.11 set to 0).		
		rE	0	Regeneration cycle disabled.		
		ALr	1	Alarms enabled.		
	Switch OFF	and then swit	tch ON th	ne machine.		
		ory parameter				
	FAC			rameter family and change boiler threshold.		
		PFL	90	Boiler Temperature Threshold.		
		ьн ,	0	Disable boiler high Temperature alarm (
		PAJ	0	Boiler Temperature Adjust.		
		65£	0	Booster function not needed.		
		błd	10	During stand-by boiler is kept at lower temperature than Temperature Threshold.		
		FFL	<i>6</i>	Tub Temperature Threshold.		
		EH 1	85	Tank high Temperature limit.		
•	-	Modify the cycle parameters:				
	[41	Cycle 1 p		rs family.		
		Lni	4	Long Wash Phase [min]		
		5h 1	10	Short Wash Phase [s]		
		ril	35	Rinse Phase Duration [s]		
		dr 1	40	Drain [s]		
		FP 1	15	Final Pause at End of Cycle		
	[72	Cycle 2 p	aramete	rs family.		
		LnZ	5	Long Wash Phase [min]		
		5h2	10	Short Wash Phase [s]		
		r 12	35	Rinse Phase Duration [s]		
		dr2	40	Drain [s]		
		FP2	15	Final Pause at End of Cycle		
	[43	Cycle 3 p	aramete	rs family.		
		Enl	9	Long Wash Phase [min]		
		5h3	10	Short Wash Phase [s]		
		r 13	35	Rinse Phase Duration [s]		
		dr 3	40	Drain [s]		

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NT3	88 US	PH	PROG 019				
Switch O	Switch OFF and then switch ON the machine.						
[F G	Enter into	CFG pa	rameter family and set the following parameters.				
	F Ab	0	Hood Type like working cycles.				
	bo ,	0	Atmospheric boiler.				
	doo	2	Front loading.				
	dFL	3	Default values for Undercounter models.				
	trc	0	(for this appliance SOFT START is NOT possible).				
	b_t	1	Tank heater works only if boiler temperature reached.				
	b ŁF	75	Enable filling tank by means of rinsing cycles.				
	LE5	0	Detergent level switches not enabled.				
	и 1	9	Select user interface hood type model (up to version 3.11 set to 1).				
	c E	<u> </u>	Regeneration cycle disabled.				
	ALr	,	Alarms enabled.				
Switch O	FF and then swi	tch ON th					
	actory paramete		ic machine.				
FAE			rameter family and change boiler threshold.				
7 716	btľ	82	Boiler Temperature Threshold.				
	65E	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.				
	btd	_					
			Booster Function not necessary.				
	££[55 00	Tank Temperature Threshold.				
	EH 1	80	High limit for tank temperature.				
	ne cycle parameters: Cycle 1 parameters family.						
[4 1			·				
	Lni	1	Long Wash Phase [min].				
	5h 1	22	Short Wash Phase [s].				
	r. (1	25	Rinse Phase Duration [s].				
	dr 1	40	Drain [s].				
	FP 1	4	Final Pause [s].				
[75	Cycle 2 p		rs family.				
	LnZ	2	Long Wash Phase [min].				
	5h2	22	Short Wash Phase [s].				
	r 12	25	Rinse Phase Duration [s].				
	dr2	40	Drain [s].				
	FP2	4	Final Pause [s].				
EY3	Cycle 3 p	aramete	rs family.				
	Enl	4	Long Wash Phase [min].				
	5h3	22	Short Wash Phase [s].				
	r i3	25	Rinse Phase Duration [s].				
	dr 3	40	Drain [s].				
	FP3	4	Final Pause [s].				
drn	Drain par						
	1dr	30	Initial Drain Phase Duration [s].				
dPR	Set other		• •				
J, ,,	1PR	5	Initial Pause [s].				
	E F	3					
1	ĹP	i	Fahrenheit.				

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ECOTEMP 5

PROG 016

[F G	Enter into	CFG pa	rameter family and set the following parameters.	
	F Ab	0	Hood Type like working cycles.	
	bo ,	0	Atmospheric boiler.	
	doo	2	Front loading.	
	dFL	3	Default values for Undercounter models.	
	tre	1	SOFT START ENABLED.	
	b_t	0	Tank and boiler heaters work simultaneously.	
	bł F	75	Enable filling tank by means of rinsing cycles.	
	LE5	8	Detergent level switches not enabled.	
	<i>U 1</i>	8	ACTIVE function disabled (up to version 3.11 set to 2).	
	rE	<i>0</i>	Regeneration cycle disabled.	
	ALr	1	Alarms enabled.	
Switch OFF	and then swit	tch ON th	e machine.	
Modify Fact	ory paramete	rs:		
FAC	Enter into	FAC pa	rameter family and change boiler threshold.	
	ьŁГ	77	Boiler Temperature Threshold.	
	bŁd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.	
Modify the o	ycle paramet	ers:		
[41	Cycle 1 parameters family.			
	Ln1	1	Long Wash Phase [min].	
	5h 1	10	Short Wash Phase. [s]	
	ril	25	Rinse Phase Duration [s].	
	dr 1	40	Drain [s].	
	FP 1	4	Final Pause [s].	
[75	Cycle 2 p	arameter	rs family.	
	LuZ	2	Long Wash Phase [min].	
	5h2	22	Short Wash Phase [s].	
	r 12	25	Rinse Phase Duration [s].	
	dr2	40	Drain [s].	
	FP2	4	Final Pause [s].	
[43	Cycle 3 p	arameter	rs family.	
	Enl	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].	
drn	Drain par	ameters	family.	
	ldr	30	Initial Drain Phase Duration [s].	
dPA	Set other	paramet	ers.	
	1PA	5	Initial Pause [s].	

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WT830EA / WT850EA PW1EAG / PW2EAG

PROG 017

rer	Enter into CFG parameter family and set the following parameters.					
[FG						
	£ YP	2	Automatic Pot Washer.			
	bo ı	0	Atmospheric boiler.			
	doo	3	Automatic Pot Washer			
	dFL	2	Default values for Hood Type models.			
	tre	0	(for this appliance SOFT START is NOT possible).			
	b_£	1	Tank heater works only if boiler temperature reached.			
	bł F	0	The tank is filled into the traditional way.			
	LE5	8	Detergent level switches not enabled.			
	<i>u i</i>	9	Select user interface hood type model (up to version 3.11 set to 1).			
	rE	0	Regeneration cycle disabled.			
	ALr	1	Alarms enabled.			
Switch OFF and then switch ON the machine.						
Modify the	odify the cycle parameters:					
[4]	Cycle 1 parameters family.					
631	Cycle 1 p	parameter	3 farmy.			
	Cycle 1 p	arametei	Long Wash Phase [min].			
	, ,		·			
	Ln1	2	Long Wash Phase [min].			
[A5	Ln I Sh I	2 29 5	Long Wash Phase [min]. Short Wash Phase [s]. Final Pause [s].			
	Ln 1 5h 1 FP 1	2 29 5	Long Wash Phase [min]. Short Wash Phase [s]. Final Pause [s].			
	Ln I 5h I FP I Cycle 2 p	29 5 parameter	Long Wash Phase [min]. Short Wash Phase [s]. Final Pause [s]. rs family.			
	Ln I Sh I FP I Cycle 2 p	29 5 parameter 5	Long Wash Phase [min]. Short Wash Phase [s]. Final Pause [s]. The family. Long Wash Phase [min].			
	Lai Shi FPi Cycle 2 p Lai	29 5 parameter 5 29 5	Long Wash Phase [min]. Short Wash Phase [s]. Final Pause [s]. Ts family. Long Wash Phase [min]. Short Wash Phase [s]. Final Pause [s].			
[42	Lai Shi FPi Cycle 2 p Laz Shz FPZ	29 5 parameter 5 29 5	Long Wash Phase [min]. Short Wash Phase [s]. Final Pause [s]. Ts family. Long Wash Phase [min]. Short Wash Phase [s]. Final Pause [s].			
[42	Lai Shi FPi Cycle 2 p Laz Shz FPZ Cycle 3 p	29 5 parameter 5 29 5	Long Wash Phase [min]. Short Wash Phase [s]. Final Pause [s]. Ts family. Long Wash Phase [min]. Short Wash Phase [s]. Final Pause [s]. Final Pause [s].			

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5. Modify the cycle parameters:

5h2

Enl

6. Switch OFF and then switch ON the machine.

Cycle 2 parameters family.

Cycle 3 parameters family.

55

Short Wash Phase [s].

Long Wash Phase [min].

[45

[43

LS9 / WT 55 ATM PROG 018 1. Switch OFF and then switch ON the machine. **EFG** Enter into CFG parameter family and set the following parameters. Ł YP Hood Type like working cycles. bo . 0 Atmospheric boiler. daa Manual Hood. dFL Default values for Hood Type models. 0 (for this appliance SOFT START is NOT possible). b_E Tank heater works only if boiler temperature reached. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. **U** 1 ACTIVE function disabled (up to version 3.11 set to 2). rE Regeneration cycle disabled. ALr Alarms enabled. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAC Enter into FAC parameter family and change boiler threshold. PFI 82 Boiler Temperature Threshold. ьял Boiler Temperature Adjust. **65**E Booster Function.

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LS9 / WT 55 PRESS **PROG 019** Switch OFF and then switch ON the machine. Enter into CFG parameter family and set the following parameters. Ł YP Hood Type like working cycles. bo i Pressure boiler. daa Manual Hood. dFL Default values for Hood Type models. (for this appliance SOFT START is NOT possible). Tank heater works only if boiler temperature reached. **b**EF The tank is filled into the traditional way. LE5 Detergent level switches not enabled. **U** 1 8 ACTIVE function disabled (up to version 3.11 set to 2). rE Regeneration cycle disabled. ALr Alarms enabled. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAE Enter into FAC parameter family and change boiler threshold. **b**ET Boiler Temperature Threshold. ьяы Boiler Temperature Adjust. 65£ Booster Function. 5. Modify the cycle parameters: [45 Cycle 2 parameters family. 542 55 Short Wash Phase [s]. **E** Ł Ł J Cycle 3 parameters family. Enl Long Wash Phase [min]. Switch OFF and then switch ON the machine.

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LS5 / WT4 PRES (Up to Ser. Nr.: 806)

PROG 020

•				,	
1.	Switch OFF	and then swi	tch ON th	e machine.	
2.	[F G	Enter into	CFG pa	rameter family and set the following parameters.	
		FAL	8	Hood Type like working cycles.	
		bo i	1	Pressure boiler.	
		doo	2	Front loading door type.	
		dFL	3	Default values for Undercounter models.	
		trc	1	SOFT START ENABLED.	
		b_£	1	Tank heater works only if boiler temperature reached.	
		b ŁF	0	The tank is filled into the traditional way.	
		LE5	0	Detergent level switches not enabled.	
		<i>u</i> 1	15	Select user interface without display (up to version 3.11 set to 7).	
		rE	0	Regeneration cycle enabled.	
		ALr	0	ALARMS NOT ENABLED.	
3.	Switch OFF	and then swi	tch ON th	e machine.	
4.	Modify Fact	tory paramete	rs:		
	FAE	Enter into FAC parameter family.			
		PFI	84	Boiler Temperature Threshold.	
		ьяJ	3	Boiler Temperature Adjust.	
		b5t	2	Booster Function.	
5.	Modify the	cycle paramet	ers:		
	EY3	Cycle 3 p	arameter	rs family.	
		Enl	1	Long Wash Phase [min]	
		5h3	40	Short Wash Phase [s]	
6.	Switch OFF	and then swi	tch ON th	e machine.	
7.		ergent dosage			
	<u>GE</u> n			rameter family.	
		d In	165	Initial Detergent Dosage.	
		r In	0	Initial Rinse Aid Dosage.	
		dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE in activated.	
		rA i	5 1	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.	
8.	Switch OFF	and then swi	tch ON th	e machine.	

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LS5 / WT4 MONO (Up to Ser. Nr.: 806)

PROG 021

	[FG	and then swi					
		Enter into		rameter family and set the following parameters.			
			0	Hood Type like working cycles.			
		bo ı		Pressure boiler.			
		doo	2	Front loading door type.			
		dFL	3	Default values for Undercounter models.			
		trc	0	(for this appliance SOFT START is NOT possible).			
		b_£	1	Tank heater works only if boiler temperature reached.			
		blf	0	The tank is filled into the traditional way.			
		LE5	0	Detergent level switches not enabled.			
		<i>u</i> 1	15	Select user interface without display (up to version 3.11 set to 7).			
		rE	0	Regeneration cycle disabled.			
		ALr	0	ALARMS NOT ENABLED.			
3.	Switch OFF and then switch ON the machine.						
4.	Modify Fact	ctory parameters:					
FRC Enter into FAC parameter family.				rameter family.			
		PFI	82	Boiler Temperature Threshold.			
		ьяJ	3	Boiler Temperature Adjust.			
		b5Ł	2	Booster Function.			
5.	Modify the	odify the cycle parameters:					
	EY3	Cycle 3 paramete		rs family.			
		Enl	1	Long Wash Phase [min]			
		5h3	40	Short Wash Phase [s]			
	Switch OFF	and then swi	itch ON th	ne machine.			
3.	Modify Dete	ergent dosage	e:				
3. 7.	meany zen	Enter into GEn parameter family.					
	GEn	Enter into	o ozni pa				
		Enter into	165	Initial Detergent Dosage.			
				Initial Detergent Dosage. Initial Rinse Aid Dosage.			
-		d in	155	9			

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LB5G / WT4 G 1. Switch OFF and then switch ON the mach

PROG 022

2.	[FG	Enter into CFG parameter family and set the following parameters.				
		Ł YP	0	Hood Type like working cycles.		
		bo ,	8	Atmospheric boiler.		
		doo	2	Front loading door type.		
		dFL	3	Default values for Undercounter models.		
		trc	<i>0</i>	(for this appliance SOFT START is NOT possible).		
		b_t	1	Tank heater works only if boiler temperature reached.		
		b EF	0	The tank is filled into the traditional way.		
		LE5	8	Detergent level switches not enabled.		
		U I	13	Select user interface for LS5 (up to version 3.11 set to 7).		
		rE	0	Regeneration cycle disabled.		
		ALr	1	ALARMS ENABLED.		
3.	Switch OFF	and then swit	tch ON th	ne machine.		
١.	1	ory parameter	rs:			
	FAC	Enter into FAC parameter family.				
		ьŁ[85	Boiler Temperature Threshold.		
		ьяJ	0	Boiler Temperature Adjust.		
		65t	2	Booster Function.		
5 .		the cycle parameters:				
	EY3	Cycle 3 p	arameter	rs family.		
		Enl	1	Long Wash Phase [min]		
		5h3	40	Short Wash Phase [s]		
).		and then swit	tch ON th	ne machine.		
7.	GEn		•	rameter family.		
		d in	70	Initial Detergent Dosage [s].		
	1	r In	5	Initial Rinse Aid Dosage [s].		

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E	ECOTEMP5 EAG PROG 023							
1.	Switch OFF	and then swit	ch ON th	e machine.				
2.	[FG	Enter into	CFG pa	rameter family and set the following parameters.				
		£ YP	0	Hood Type like working cycles.				
		bo ,	<i>0</i>	Atmospheric boiler.				
		doo	2	Front loading door type.				
		dFL	3	Default values for Undercounter models.				
		tre	1	SOFT START ENABLED.				
		b_t	1	Tank heater works only if boiler temperature reached.				
		bef	75	Enable filling tank by means of rinsing cycles.				
		LE5	<i>0</i>	Detergent level switches not enabled.				
		rE	0	Regeneration cycle disabled.				
		ALr	1	ALARMS ENABLED.				
3.	Switch OFF	and then swit	ch ON th	ne machine.				

LS5WS / WT4 WS MONO **PROG 024** (Up to Ser. Nr.: 806) 1. Switch OFF and then switch ON the machine. E F G Enter into CFG parameter family and set the following parameters. **LYP** Hood Type like working cycles. 0 Atmospheric boiler. bo . doo 2 Front loading door type. dFL Default values for Undercounter models. 0 (for this appliance SOFT START is NOT possible). Tank heater works only if boiler temperature reached. **b**ŁF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. **U** 1 13 Select user interface for LS5 (up to version 3.11 set to 5). rE Regeneration cycle enabled. ALr ALARMS ENABLED. 3. Switch OFF and then switch ON the machine. Modify Factory parameters: FAC Enter into FAC parameter family. bt[83 Boiler Temperature Threshold. ЬЯЈ Boiler Temperature Adjust. **65**E Booster Function. 5. Modify the cycle parameters: EY3 Cycle 3 parameters family. Enl Long Wash Phase [min] 5h3 Short Wash Phase [s] 6. Switch OFF and then switch ON the machine. 7. GEn Enter into GEn parameter family. din Initial Detergent Dosage [s] Initial Rinse Aid Dosage [s]. rin Ent Counters. r[Y 20 Number of cycles allowed before regeneration. Switch OFF and then switch ON the machine.

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5. Switch OFF and then switch ON the machine.

LS12 ECOTEMP (EUROPE) **PROG 025** 1. Switch OFF and then switch ON the machine. [FG Enter into CFG parameter family and set the following parameters. Hood Type like working cycles. bo . Atmospheric boiler. daa Manual Hood. dFL Default values for Hood Type models. 0 (for this appliance SOFT START is NOT possible). b_E Tank and boiler heaters work simultaneously. **b**EF 75 The tank is filled into the traditional way. LE5 0 Detergent level switches not enabled. **U** 1 Select user interface hood type model (up to version 3.11 set to 1). rE Regeneration cycle disabled. ALr ALARMS ENABLED. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAC Enter into FAC parameter family. PFI 82 Boiler Temperature Threshold. ьял Boiler Temperature Adjust.

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LS12 / ECOTEMP UK **PROG 026** Switch OFF and then switch ON the machine. Enter into CFG parameter family and set the following parameters. Ł YP Hood Type like working cycles. bo . Atmospheric boiler. daa Manual Hood. dFL Default values for Hood Type models. (for this appliance SOFT START is NOT possible). Tank heater works only if boiler temperature reached. **b**EF 0 The tank is filled into the traditional way. LE5 0 Detergent level switches not enabled. **11** 1 9 Select user interface hood type model (up to version 3.11 set to 1). rE Regeneration cycle disabled. ALr ALARMS ENABLED. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAE Enter into FAC parameter family. **b**ET 82 Boiler Temperature Threshold. ьяы Boiler Temperature Adjust. 5. Modify the cycle parameters: [41 Cycle 1 parameters family. Drain [s]. [42 Cycle 2 parameters family dr2 Drain [s]. [43 Cycle 3 parameters family. 0 Initial Drain Phase Duration [s]. drn Drain parameters family. 1dr 30 Initial Drain Phase Duration [s]. dPR Set other parameters. Pdr 30 Drain Phase Duration at the end of washing phase. [s]. Switch OFF and then switch ON the machine.

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	S6A			PROG 02
1.	Switch OFF	and then swi	tch ON th	ne machine.
2.	[FG	Enter into	CFG pa	arameter family and set the following parameters.
		£ YP	0	Hood Type like working cycles.
		bo ,	0	Atmospheric boiler.
		doo	2	Front loading door type.
		dFL	3	Default values for Undercounter models.
		trc	1	SOFT START ENABLED.
		b_t	1	Tank heater works only if boiler temperature reached.
		b <i>bF</i>	75	Enable filling tank by means of rinsing cycles.
		LE5	0	Detergent level switches not enabled.
		<i>u 1</i>	9	Select user interface hood type model (up to version 3.11 set to 1).
		rE	0	Regeneration cycle disabled.
		ALr	1	ALARMS ENABLED.
	Switch OFF	and then swit	tch ON th	ne machine.
	Modify Facto	ory parameter	rs:	
	FAC	Enter into	FAC pa	rameter family.
		bt[84	Boiler Temperature Threshold.
		ьяј	0	Boiler Temperature Adjust.
		bŁd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FFL	68	Tank Temperature Threshold.
		FFH	2	HISTERESIS of Tank Temperature.
	Modify the cy	ycle paramet	ers:	
	[41	Cycle 1 p	aramete	rs family.
		Lnl	1	Long Wash Phase [min]
		5h 1	37	Short Wash Phase [s]
		PR I	4	Pause [s]
		r.1	13	Rinse Phase Duration [s]
		FP 1	5	Final Pause [s]
	[75	Cycle 2 p	aramete	rs family
		LnZ	2	Long Wash Phase [min]
		5h2	37	Short Wash Phase [s]
		PA2	4	Pause [s]
		r 12	13	Rinse Phase Duration [s]
		FP2	5	Final Pause [s]
	EY3	Cycle 3 p	aramete	rs family.
		Enl	3	Long Wash Phase [min]
		5h3	37	Short Wash Phase [s]
		PR3	4	Pause [s]
		r i 3	13	Rinse Phase Duration [s]
		FP3	5	Final Pause [s]
	dPR	Set other	paramet	
		[F	1	Fahrenheit
	Switch OFF	and then swi	· · · · · · · · · · · · · · · · · · ·	
		gent dosage		
	GEn			rameter family.
		dEt	6	Detergent Dosage During Cycle Execution (during wash phase)

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LS14AH / WT65H PROG 028 Switch OFF and then switch ON the machine. Enter into CFG parameter family and set the following parameters. **LYP** Hood Type like working cycles. bo . Atmospheric boiler. daa Manual Hood. dFL Default values for Hood Type models. (for this appliance SOFT START is NOT possible). 1 Tank heater works only if boiler temperature reached. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 Detergent level switches not enabled. **11** 1 9 Select user interface hood type model (up to version 3.11 set to 1). rE Regeneration cycle disabled. ALr ALARMS ENABLED 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAE Enter into FAC parameter family. **b**ET 84 Boiler Temperature Threshold. ьяы 0 Boiler Temperature Adjust. **ŁŁ**[73 Tank Temperature Threshold. **EEH** 2 HISTERESIS of Tank Temperature. EH . 83 Tank high Temperature limit. 5. Modify the cycle parameters: [41 Cycle 1 parameters family. 5h 1 Short Wash Phase [s] 37 PR 1 4 Pause [s] r 11 13 Rinse Phase Duration [s] FP 1 5 Final Pause [s] [42 Cycle 2 parameters family. 542 47 Short Wash Phase [s] PA2 4 Pause [s] r 12 13 Rinse Phase Duration [s] FP2 6 Final Pause [s] [43 Cycle 3 parameters family. 5h3 **3**7 Short Wash Phase [s] PA3 4 Pause [s] r 13 13 Rinse Phase Duration [s] FP3 Final Pause [s] dPA Set other parameters. E FFahrenheit 6. Switch OFF and then switch ON the machine. Modify Detergent dosage: ₽E n Enter into GEn parameter family. dEt Detergent Dosage During Cycle Execution (during wash phase) rA, Rinse Aid Dosage During Cycle Execution (when refilling boiler)

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Switch OFF and then switch ON the machine.

Н	1330	0	PROG 029	
1.	Switch OFF	and then swit	ne machine.	
2.	[FG	Enter into	CFG pa	rameter family and set the following parameters.
		FAL	0	Hood Type like working cycles.
		bo 1	0	Atmospheric boiler.
		doo	2	Front loading.
		dFL	3	Default values for Undercounter models.
		tre	1	SOFT START ENABLED.
		b_£	1	Tank heater works only if boiler temperature reached.
		b ef	75	Enable filling tank by means of rinsing cycles.
		LE5	0	Detergent level switches not enabled.
		<i>U 1</i>	8	ACTIVE function disabled (up to version 3.11 set to 2).
		rE	0	Regeneration cycle disabled.
		ALr	1	Alarms enabled.

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H1310SANA PROG 030 Switch OFF and then switch ON the machine. Enter into CFG parameter family and set the following parameters. **LYP** Hood Type like working cycles. bo . 0 Atmospheric boiler. daa Front loading. dFL 7 Default values for Undercounter models. SOFT START ENABLED. 1 b_t Tank heater works only if boiler temperature reached. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 Detergent level switches not enabled. **11** 1 8 ACTIVE function disabled (up to version 3.11 set to 2). rE 0 Regeneration cycle disabled. ALr Alarms enabled. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAC Enter into FAC parameter family and change boiler threshold. PFI Boiler Temperature Threshold. **bH** , 0 Disable boiler high Temperature alarm (**?**). **LRJ** 0 Boiler Temperature Adjust. b5Ł 0 Booster function not needed. 10 btd During stand-by boiler is kept at lower temperature than Temperature Threshold. **FF**T 65 Tub Temperature Threshold. EH . 85 Tank high Temperature limit. 5. Modify the cycle parameters: [41 Cycle 1 parameters family. Lal Long Wash Phase [min] 5h 1 10 Short Wash Phase [s] 35 r 11 Rinse Phase Duration [s] 40 dr 1 Drain [s] FP 1 15 Final Pause at End of Cycle [42 Cycle 2 parameters family. LnZ 5 Long Wash Phase [min] 542 10 Short Wash Phase [s] r 12 35 Rinse Phase Duration [s] dr2 40 Drain [s] FP2 15 Final Pause at End of Cycle [43 Cycle 3 parameters family. Enl Long Wash Phase [min] 5h3 10 Short Wash Phase [s] **35** r 13 Rinse Phase Duration [s] dr 3 40 Drain [s] FP3 15 Final Pause at End of Cycle Switch OFF and then switch ON the machine.

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V	VT30)H		PROG 03 ²
١.	Switch OFF	and then swi	tch ON th	ne machine.
2.	[FG	Enter into	CFG pa	rameter family and set the following parameters.
		ŁУР	0	Hood Type like working cycles.
		bo ,	0	Atmospheric boiler.
		doo	2	Front loading door type.
		dFL	3	Default values for Undercounter models.
		trc	1	SOFT START ENABLED.
		b. t	1	Tank heater works only if boiler temperature reached.
		b EF	75	Enable filling tank by means of rinsing cycles.
		LE5	0	Detergent level switches not enabled.
		<i>U 1</i>	9	Select user interface hood type model (up to version 3.11 set to 1).
		rE	0	Regeneration cycle disabled.
		ALr	- 1	ALARMS ENABLED.
_	Switch OFF	and then swi	tch ON th	
	Modify Factor			
	FAC	· ·		rameter family.
		btľ	84	Boiler Temperature Threshold.
		ьяј	0	Boiler Temperature Adjust.
		bŁd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FFI	58	Tank Temperature Threshold.
		FFH	2	HISTERESIS of Tank Temperature.
_	Modify the c	vcle paramet	ers:	
	[4]	Cycle 1 p		rs family.
		Lnl	1	Long Wash Phase [min]
		5h 1	37	Short Wash Phase [s]
		PA I	4	Pause [s]
		r.1	13	Rinse Phase Duration [s]
		FP 1	5	Final Pause [s]
	[45	Cycle 2 p	aramete	
		LnZ	2	Long Wash Phase [min]
		5h2	<u> </u>	Short Wash Phase [s]
		PA2	4	Pause [s]
		r 12	13	Rinse Phase Duration [s]
		FP2	5	Final Pause [s]
	[43	Cycle 3 p		
		Enl	3	Long Wash Phase [min]
		5h3	37	Short Wash Phase [s]
		PR3	4	Pause [s]
		r 13	Ė	Rinse Phase Duration [s]
		F 13	6 5	Final Pause [s]
	dPA			• •
	orn	Set other	paramet	
	Curitata OFF		•	Fahrenheit
		and then swi		ne machine.
	Modify Deter			rameter family
	שבח	dE E		Potessent Recess During Cycle Evecution (during week phase)
			5	Detergent Dosage During Cycle Execution (during wash phase)
		rA,	3	Rinse Aid Dosage During Cycle Execution (when refilling boiler)

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itch OFF and F 	Enter into		e machine. cameter family and set the following parameters.	
FG	EYP bo 1		rameter family and set the following parameters.	
	bo i	3		
			Medical line dishwasher with lock door/hood device.	
	4	8	Atmospheric boiler.	
	doo	2	Front loading.	
	dFL	3	Default values for Undercounter models.	
	trc	1	SOFT START ENABLED.	
	b_t	1	Tank heater works only if boiler temperature reached.	
	b ŁF	75	Enable filling tank by means of rinsing cycles.	
	LE5	0	Detergent level switches not enabled.	
	U I	8	ACTIVE function disabled (up to version 3.11 set to 2).	
	rE	0		
	ALr	1	Alarms enabled.	
itch OFF and	then switch	h ON th	e machine.	
AC			ameter family and change boiler threshold.	
	PFI	92	Boiler Temperature Threshold.	
	ьн ,	0	Disable boiler high Temperature alarm (7 ?).	
	ьяј	0	Boiler Temperature Adjust.	
	65E	0	Booster function not needed.	
	bt d	10	During stand-by boiler is kept at lower temperature than Temperatur	e Threshold.
	FF[65	Tub Temperature Threshold.	
	EH,	85	Tank high Temperature limit.	
	e paramete	rs:		
<i>y</i> 1		rameter	s family.	
		3	Long Wash Phase [min]	
		35	Short Wash Phase [s]	
	PA I	5	Pause [s]	
	ril		Rinse Phase Duration [s]	
	dr 1	40	Drain [s]	
	FP 1	50	Final Pause at End of Cycle [s].	
75			s family	
	LuZ	5	Long Wash Phase [min]	
			Short Wash Phase [s]	
			Pause [s]	
			Rinse Phase Duration [s]	
			Drain [s]	
			Final Pause at End of Cycle [s].	
43			s family	
			Long Wash Phase [min]	
			Short Wash Phase [s]	
			Pause [s]	
	r 13			
			Drain [s]	
			Final Pause at End of Cycle [s].	
PA	-			
			Duration of pause after the rinse cycle [s].	
	dify Factory RC dify the cycle 1 1 PR	tch OFF and then switch off parameters of the pa	tch OFF and then switch ON the diffy Factory parameters: RE Enter into FAC part but a but	r E

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L	.S6N	S6MCD PROG (
1.	. Switch OFF and then switch ON the machine.								
2.	[FG	Enter into	CFG pa	arameter family and set the following parameters.					
		E YP	0	Hood Type like working cycles.					
		bo ,	0	Atmospheric boiler.					
		doo	2	Front loading.					
		dFL	3	Default values for Undercounter models.					
		trc	1	SOFT START ENABLED.					
		b_£	1	Tank heater works only if boiler temperature reached.					
		b ŁF	75	Enable filling tank by means of rinsing cycles.					
		LE5	1	Detergent level switches enabled.					
		<i>U 1</i>	9	Select user interface hood type model (up to version 3.11 set to 1).					
		rE	0	Regeneration cycle disabled.					
		ALr	1	Alarms enabled.					
3.	Switch OFF	and then swit	tch ON th						

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_	VT3(MC		PROG 034				
1.	. Switch OFF and then switch ON the machine.							
2.	[FG	Enter into	o CFG pa	rameter family and set the following parameters.				
		ŁУР	3	Medical line dishwasher with lock door/hood device.				
		bo i	0	Atmospheric boiler.				
		doo	2	Manual Hood.				
		dFL	3	Default values for Hood Type models.				
		trc	1	(for this appliance SOFT START is NOT possible).				
		b_t	1	Tank heater works only if boiler temperature reached.				
		b EF	75	Enable filling tank by means of rinsing cycles.				
		LE5	0	Detergent level switches not enabled.				
		<i>U 1</i>	8	ACTIVE function disabled (up to version 3.11 set to 0).				
		rE	0	Regeneration cycle disabled.				
		ALr	1	Alarms enabled.				
3.	Switch OFF	and then swi	itch ON th	ne machine.				
4.	Modify Fact	ory paramete	ers:					
	FAC	Enter into	o FAC pa	rameter family and change boiler threshold.				
		ьŁТ	92	Boiler Temperature Threshold.				
		ьн ,	0	Disable boiler high Temperature alarm (🕻 💈).				
		ьяJ	0	Boiler Temperature Adjust.				
		b5t	0	Booster function not needed.				
		bŁd	10	During stand-by boiler is kept at lower temperature than Temperature Threshold.				
		t t [65	Tub Temperature Threshold.				
		ŁH ,	85	Tank high Temperature limit.				
5.	Modify the o	cycle paramet	ters:	· ·				
	EYI	Cycle 1 p		rs family.				
			Jaiailietei					
		Ln1		·				
		· · · · · · · · · · · · · · · · · · ·	3	Long Wash Phase [min]				
		Ln1	3 35	Long Wash Phase [min] Short Wash Phase [s]				
		Ln 1 5h 1 PA 1	3 35 5	Long Wash Phase [min] Short Wash Phase [s] Pause [s]				
		Ln 1 5h 1 PA 1	3 35 5 35	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s]				
		Ln I Sh I PA I r I dr I	3 35 5 35 40	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s]				
	[45	Lai Shi PAi rui dri FPi	35 5 5 35 40 00	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s].				
	[35	Ln1 Sh1 PA1 ru1 dr1 FP1 Cycle 2 p	3 35 5 35 40 60 parameter	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s].				
	CA5	Ln1 Sh1 PR1 ru1 dr1 FP1 Cycle 2 p	35 5 35 40 60 parameter	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. rs family. Long Wash Phase [min]				
	£ 45	Ln1 Sh1 PR1 ri1 dr1 FP1 Cycle 2 p	35 5 35 40 60 parameter 5	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. rs family. Long Wash Phase [min] Short Wash Phase [s]				
	CAS	Ln1 Sh1 PR1 ri1 dr1 FP1 Cycle 2 p Ln2 Sh2 PR2	35 5 35 40 60 parameter 5	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. rs family. Long Wash Phase [min] Short Wash Phase [s] Pause [s]				
	[45	Ln1 Sh1 PR1 ril dr1 FP1 Cycle 2p Ln2 Sh2 PR2 ri2	35 5 35 40 60 parameter 5 35 5	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Is family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s]				
	C A S	Lai Shi PRi rii dri FPi Cycle 2; Lai Shi PRi dri	35 5 35 40 60 parameter 5 35 5 35	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. rs family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s]				
		Ln1 Sh1 PR1 ril dr1 FP1 Cycle 2 p Ln2 Sh2 PR2 ri2 dr2 FP2	35 5 35 40 60 parameter 5 35 5 40	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. rs family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s].				
	[A3]	Ln1 Sh1 PR1 ri1 dr1 FP1 Cycle 2 p Ln2 Sh2 PR2 ri2 dr2 FP2 Cycle 3 p	35 5 35 40 60 parameter 5 35 40 60	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. rs family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. rs family.				
		Ln1 Sh1 PR1 ril dr1 FP1 Cycle 2p Ln2 Sh2 PR2 ri2 dr2 FP2 Cycle 3p	35 5 35 40 60 parameter 5 35 40 60 parameter	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Its family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s].				
		Ln1 Sh1 PR1 ri1 dr1 FP1 Cycle 2; Ln2 Sh2 PR2 ri2 dr2 FP2 Cycle 3; Ln3 Sh3	35 5 35 40 60 parameter 5 35 40 60 parameter	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Is family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Is family. Long Wash Phase [min] Short Wash Phase [min] Short Wash Phase [min] Short Wash Phase [min] Short Wash Phase [s]				
		Ln1 Sh1 PR1 ril dr1 FP1 Cycle 2 p Ln2 Sh2 PR2 ri2 dr2 FP2 Cycle 3 p Ln3 Sh3 PR3	35 5 35 40 60 parameter 5 35 40 parameter 8	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. rs family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. rs family. Long Wash Phase [min] Short Wash Phase [min] Short Wash Phase [min] Short Wash Phase [min] Short Wash Phase [s] Pause [s]				
		Ln1 Sh1 PR1 ri1 dr1 FP1 Cycle 2 p Ln2 Sh2 PR2 ri2 dr2 FP2 Cycle 3 p En3 Sh3 PR3 ri3	35 5 35 40 60 parameter 5 35 40 parameter 8 35	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. It samily. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. It samily. Long Wash Phase [min] Short Wash Phase [min] Short Wash Phase at End of Cycle [s]. It samily. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s]				
		Ln1 Sh1 PR1 ri1 dr1 FP1 Cycle 2p Ln2 Sh2 PR2 ri2 dr2 FP2 Cycle 3p Ln3 Sh3 PR3 ri3 dr2	35 5 35 40 60 parameter 5 5 40 60 parameter 35 40 5	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Its family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Its family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s]				
	E ¥ 3	Ln1 Sh1 PR1 ril dr1 FP1 Cycle 2 p Ln2 Sh2 PR2 ri2 dr2 FP2 Cycle 3 p Ln3 Sh3 PR3 ri3 dr2 FP3	35 5 35 40 60 parameter 5 35 40 parameter 8 35 5 40 60 5	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Is family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Is family. Long Wash Phase [min] Short Wash Phase [min] Short Wash Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Is family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s].				
		Ln1 Sh1 PR1 ri1 dr1 FP1 Cycle 2 p Ln2 Sh2 PR2 ri2 dr2 FP2 Cycle 3 p Ln3 Sh3 PR3 ri3 dr2 FP3 Set other	35 5 35 40 60 parameter 5 35 40 parameter 8 35 5 40 60 r paramet	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Its family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Its family. Long Wash Phase [min] Short Wash Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Its family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Its family pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s].				
	E ¥ 3	Ln1 Sh1 PR1 ril dr1 FP1 Cycle 2 p Ln2 Sh2 PR2 ri2 dr2 FP2 Cycle 3 p Ln3 Sh3 PR3 ri3 dr2 FP3	35 5 35 40 60 parameter 5 35 40 parameter 8 35 5 40 60 5	Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Is family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Is family. Long Wash Phase [min] Short Wash Phase [min] Short Wash Phase Duration [s] Drain [s] Final Pause at End of Cycle [s]. Is family. Long Wash Phase [min] Short Wash Phase [s] Pause [s] Rinse Phase Duration [s] Drain [s] Final Pause at End of Cycle [s].				

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WT65M PROG 035							
Switch O	FF and then sv	vitch ON th	ne machine.				
[FG							
	ŁУР	Ē	Medical line dishwasher with lock door/hood device.				
	bo i	0	Atmospheric boiler.				
	doo	- 1	Front loading.				
	dFL	1	Default values for Undercounter models.				
	tre	0	SOFT START ENABLED.				
	bat	- 1	Tank heater works only if boiler temperature reached.				
	bt F	75	Enable filling tank by means of rinsing cycles.				
	LE5	0	Detergent level switches not enabled.				
	H 1	9	Select user interface hood type model (up to version 3.11 set to 1).				
	r E	0	Regeneration cycle disabled.				
	ALr	1	Alarms enabled.				
Switch O	FF and then sv	vitch ON th					
Modify Fa	actory paramet	ers:					
FAC			rameter family and change boiler threshold.				
	PF[92	Boiler Temperature Threshold.				
	ьн ,	8	Disable boiler high Temperature alarm (<i>I I</i>).				
	ьяJ	0	Boiler Temperature Adjust.				
	b5t	0	Booster function not needed.				
	btd	10	During stand-by boiler is kept at lower temperature than Temperature Threshold.				
	ŁŁζ	55	Tub Temperature Threshold.				
	£H,	85	Tank high Temperature limit.				
Modify th	e cycle parame	eters:					
[4]		paramete	rs family.				
	Lnl	3	Long Wash Phase [min]				
	5h 1	35	Short Wash Phase [s]				
	PR I	5	Pause [s]				
	r.1	35	Rinse Phase Duration [s]				
	dr 1	40	Drain [s]				
	FP 1	60	Final Pause at End of Cycle [s].				
[45	Cycle 2	paramete	rs family.				
	LnZ	5	Long Wash Phase [min]				
	5h2	35	Short Wash Phase [s]				
	PA2	5	Pause [s]				
	ج، ۲	35	Rinse Phase Duration [s]				
	dr2	40	Drain [s]				
	FP2	60	Final Pause at End of Cycle [s].				
EY3		paramete					
	Enl	8	Long Wash Phase [min]				
	5h3	35	Short Wash Phase [s]				
	PA3	5	Pause [s]				
	r 13	35	Rinse Phase Duration [s]				
	dr 2	40	Drain [s]				
	FP3	5 <i>0</i>	Final Pause at End of Cycle [s].				
		er paramet					
dPA	Set othe		····				
dPA			Duration of pause after the rinse cycle [s]				
dPR	r PR	45	Duration of pause after the rinse cycle [s]. Fahrenheit				

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LS5/1DPAUS (Up to Ser.Nr.:806)

PROG 036

 Switch OFF and then switch ON the machine. Eff Enter into CFG parameter family and set the following parameters. 						
	LFU	Enter into CFG parameter family and set the following parameters.				
		F A B	0	Hood Type like working cycles.		
		bo i	1	Pressure boiler.		
		doo	2	Front loading door type.		
		dfl	3	Default values for Undercounter models.		
		trc	0	(for this appliance SOFT START is NOT possible).		
		b_t	1	Tank heater works only if boiler temperature reached.		
		bł F	0	The tank is filled into the traditional way.		
		LE5	0	Detergent level switches not enabled.		
		<i>u 1</i>	13	Select user interface for LS5 (up to version 3.11 set to 5).		
		rE	0	Regeneration cycle disabled.		
		ALr	0	ALARMS NOT ENABLED.		
3.	Switch OFF	and then swi	itch ON th	the machine.		
	Modify Fact	ory paramete	rs:			
	FAC	Enter into	o FAC pa	rameter family.		
		PFL	82	Boiler Temperature Threshold.		
		ьяJ	3	Boiler Temperature Adjust.		
		b5Ł	2	Booster Function.		
	Modify the	cycle paramet	ters:			
	[Y3	Cycle 3 p	oarametei	rs family.		
		Enl	1	Long Wash Phase [min]		
		5h3	40	Short Wash Phase [s]		
3 .	Switch OFF	and then swi	itch ON th	ne machine.		
7 .	Modify Dete	ergent dosage): -			
	GEn	Enter into	o GEn pa	rameter family.		
		d in	155	Initial Detergent Dosage.		
		r In	0	Initial Rinse Aid Dosage.		
		dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE in activated.		

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PW1-PW2 / WT830-WT850 USA PROG 037

[Fl	Enter in	ito CFG pa	arameter family and set the following parameters.
	FAL	1	Pot Washer.
	bo ,	8	Atmospheric boiler.
	doo	2	Front loading function.
	dFL	2	Default values for Pot Washer models.
	tre	8	(for this appliance SOFT START is NOT possible).
	b_t	1	Tank heater works only if boiler temperature reached.
	bef	8	The tank is filled into the traditional way.
	LE5	8	Detergent level switches not enabled.
	U 1	9	Select user interface hood type model (up to version 3.11 set to 1).
	rE	0	Regeneration cycle disabled.
	ALr	1	Alarms enabled.
Switch	n OFF and then sv	witch ON th	ne machine.
Modif	y Factory paramet	ers:	
FAL	Enter in	ito FAC pa	rameter family.
	PFI	84	Boiler Temperature threshold.
	ьн ,	98	Boiler Temperature high limit.
	ьяJ	8	Boiler Temperature Adjust.
	FF[70	Tub Temperature Threshold.
	FFH	2	HISTERESIS of Tank Temperature.
	FH ,	80	Tank high Temperature limit.
	y the cycle param	eters:	
[Y	· · · · · · · · · · · · · · · · · · ·	paramete	rs family
	Lni	5	Long Wash Phase [min]
	5h 1	11	Short Wash Phase [s]
	ril	23	Rinse Phase Duration [s]
	FP (20	Final Pause at End of Cycle [s].
[Ya	Cycle 2	paramete	rs family.
	LnZ	9	Long Wash Phase [min]
	5h2	11	Short Wash Phase [s]
	r 12	23	Rinse Phase Duration [s]
	FP2	20	Final Pause at End of Cycle [s].
[Y	Cycle 3	paramete	rs family.
	Enl	14	Long Wash Phase [min]
	5h3	11	Short Wash Phase [s]
	E, 7	23	Rinse Phase Duration [s]
	FP3	20	Final Pause at End of Cycle [s].
dPl	Set oth	er paramet	ers.
	[F	1	Fahrenheit.

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PROG 038 WT30C (Cafè Line) Switch OFF and then switch ON the machine. Enter into CFG parameter family and set the following parameters. **LYP** Hood Type like working cycles. bo . 0 Atmospheric boiler. Front loading door type. dFL 3 Default values for Undercounter models. SOFT START ENABLED. Tank heater works only if boiler temperature reached. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 Detergent level switches enabled. **11** 1 Select user interface hood type model (up to version 3.11 set to 1). rE Regeneration cycle disabled. ALr ALARMS ENABLED. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAE Enter into FAC parameter family. Boiler Temperature Threshold. **b**ET 84 ьяы Boiler Temperature Adjust. btd During stand-by boiler is kept at lower temperature than Temperature Threshold. FFE 68 Tank Temperature Threshold. **EEH** HISTERESIS of Tank Temperature. 5. Modify the cycle parameters: [41 Cycle 1 parameters family. Ln1 Long Wash Phase [min] 5h 1 Short Wash Phase [s] 36 FP 1 Final Pause [s] [42 Cycle 2 parameters family. LnZ 2 Long Wash Phase [min] 542 Short Wash Phase [s] FP2 Final Pause [s] [43 Cycle 3 parameters family. Enl Long Wash Phase [min] 5h3 35 Short Wash Phase [s] FP3 Final Pause [s] dPA Set other parameters. E FFahrenheit. Switch OFF and then switch ON the machine.

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WT38PM50 / WT38PM60 **PROG 039** 1. Switch OFF and then switch ON the machine. 2. **EFG** Enter into CFG parameter family and set the following parameters. **LYP** Hood Type like working cycles. bo . 1 Pressure boiler. daa 2 Front loading. 3 dFL Default values for Undercounter models. 0 (for this appliance SOFT START is NOT possible). b_E Tank heater works only if boiler temperature reached. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. **U** 1 9 Select user interface hood type model (up to version 3.11 set to 1). rE 0 Regeneration cycle disabled. ALr Alarms enabled. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAE Enter into FAC parameter family and change boiler threshold. bel Boiler Temperature Threshold. ьн . 0 Boiler Temperature high limit. btd 10 During stand-by boiler is kept at lower temperature than Temperature Threshold. b5Ł 0 Booster Function not necessary. FFE 66 Tank Temperature Threshold. EH . 85 High limit for tank temperature. 5. Modify the cycle parameters: [41 Cycle 1 parameters family. Lal Long Wash Phase [min] 5h 1 22 Short Wash Phase [s] rilRinse Phase Duration [s] dr 1 40 Drain [s] Final Pause [s] [42 Cycle 2 parameters family. LnZ 2 Long Wash Phase [min] 542 22 Short Wash Phase [s] 25 r 12 Rinse Phase Duration [s] dr2 40 Drain [s] FP2 Final Pause [s] [43 Cycle 3 parameters family. Enl Long Wash Phase [min] 5h3 22 Short Wash Phase [s] r ı3 25 Rinse Phase Duration [s] dr 3 40 Drain [s] FP3 Final Pause [s] drn Drain parameters family. 30 Initial Drain Phase Duration [s]. Idr dPA Set other parameters. 1PR Initial Pause [s]. Switch OFF and then switch ON the machine.

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LU7P / LU700P / WTU40P PROG 040 Switch OFF and then switch ON the machine. Enter into CFG parameter family and set the following parameters. Ł YP 0 Hood Type like working cycles. bo . 1 Pressure boiler. daa Front loading. dFL Default values for Hood Type models. SLOW SOFT START ENABLED Tank heater works only if boiler temperature reached. **b**EF The tank is filled into the traditional way. 0 LE5 Detergent level switches not enabled. **U** 1 8 ACTIVE function disabled (up to version 3.11 set to 2). rE 0 Regeneration cycle disabled. ALr Alarms enabled. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAE Enter into FAC parameter family and change boiler threshold.. **b**ET Boiler Temperature Threshold. ьяы Boiler Temperature Adjust. **65**Ł Booster Function. 5. Modify the cycle parameters: [45 Cycle 2 parameters family. LnZ 1 Long Wash Phase [min]. 542 10 Short Wash Phase [s]. [43 Cycle 3 parameters family. Enl 4 Long Wash Phase [min]. 6. Switch OFF and then switch ON the machine.

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6. Switch OFF and then switch ON the machine.

LU7A / LU700A / WTU40A PROG 041 1. Switch OFF and then switch ON the machine. [FG Enter into CFG parameter family and set the following parameters. Ł YP Hood Type like working cycles. bo . 0 Atmospheric boiler. 2 daa Front loading. dFL Default values for Hood Type models. 3 SLOW SOFT START ENABLED b_E Tank heater works only if boiler temperature reached. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. **U** 1 Select user interface hood type model (up to version 3.11 set to 1). rE 0 Regeneration cycle disabled. ALr Alarms enabled. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAC Enter into FAC parameter family and change boiler threshold. PFI 82 Boiler Temperature Threshold. ьял Boiler Temperature Adjust. **65**£ Booster Function. 5. Modify the cycle parameters: [45 Cycle 2 parameters family. LnZ Long Wash Phase [min]. 5h2 10 Short Wash Phase [s]. [43 Cycle 3 parameters family. Enl Long Wash Phase [min].

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LS14WS / WT65WS **PROG 042** 1. Switch OFF and then switch ON the machine. Enter into CFG parameter family and set the following parameters. Ł YP Hood Type like working cycles. bo i 0 Atmospheric boiler. doo Manual Hood. dFL Default values for Hood Type models. (for this appliance SOFT START is NOT possible). 1 Tank heater works only if boiler temperature reached. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 Detergent level switches not enabled. **U** 1 Select user interface hood type model (up to version 3.11 set to 1). rE Regeneration cycle disabled (only for dishwashers with non-continuous water softener). ALr AAG Air gap with float level sensor normally closed. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAC Factory parameters family. 78 Boiler Temperature Threshold. drn Drain parameters family. Fdr 80 Final Drain Phase Duration [s]. 5. Modify Communication and HACCP parameters: HEP Enter into HCP parameter family and set the following parameters. Dishwasher with incorporated continuous water softener. 6. Switch OFF and then switch ON the machine.

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PROG 043 WT65MEDWS 1. Switch OFF and then switch ON the machine. 2. **EFG** Enter into CFG parameter family and set the following parameters: **LYP** Hood Type like working cycles. bo . Atmospheric boiler. daa 0 Automatic Hood. dFL 1 Default values for Hood Type models. 0 (for this appliance SOFT START is NOT possible). b_E Tank heater works only if boiler temperature reached. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. **U** 1 9 Select user interface hood type model (up to version 3.11 set to 1). rE 0 Regeneration cycle disabled (only for dishwashers with non-continuous water softener). ALr Alarms enabled. AAG Air gap with float level sensor normally closed. 3. Switch OFF and then switch ON the machine. Modify Factory parameters: FAC Factory parameters family. 90 PFI Boiler Temperature Threshold. ьн . 0 Disable boiler high Temperature alarm (**?**). ЬЯЫ 0 Boiler Temperature Adjust. b5Ł Booster Function. EEE. 65 Tub Temperature: THRESHOLD. 85 EH . Tank high Temperature limit. 5. Modify the cycle parameters: [41 Cycle 1 parameters family. Lal 2 Long Wash Phase [min] 5h 1 32 Short Wash Phase [s] Rinse Phase Duration [s] ril35 dr 1 40 Drain [s] FP 1 15 Final Pause [s] [42 Cycle 2 parameters family. LnZ 3 Long Wash Phase [min] 542 32 Short Wash Phase [s] r 12 35 Rinse Phase Duration [s] dr2 40 Drain [s] FP2 15 Final Pause [s] **EY3** Cycle 2 parameters family. Enl Long Wash Phase [min] 5h3 32 Short Wash Phase [s] F, 7 **35** Rinse Phase Duration [s] dr 3 40 Drain [s] FP3 15 Final Pause [s] Drain/Cleaning Cycle Parameters. drn Fdr 80 Drain without cleaning cycle. dPR Set other parameters. 1PR 4 Initial Pause [s] 6. Modify Communication and HACCP parameters: Enter into HCP parameter family and set the following parameters. HEP SEr Dishwasher with incorporated continuous water softener. Switch OFF and then switch ON the machine.

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L	.S6WS	3		PROG 044
1.	Switch OFF and	d then switch ON	V th	e machine.
2.	[F G	Enter into CFG	par	rameter family and set the following parameters.
		FAL I	0	Undercounter like working cycles.
		bo ·	0	Atmospheric boiler.
		doo i	2	Front loading.
		dFL :	3	Default values for Undercounter models.
		tre	1	SOFT START ENABLED.
		b_t	1	Tank heater works only if boiler temperature reached.
		bbF 75	5	Enable filling tank by means of rinsing cycles.
		LES I	0	Detergent level switches not enabled.
		U 1 !	9	Select user interface hood type model (up to version 3.11 set to 1).
		rE l	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
		ALr	1	Alarms enabled.
		AAG	1	Air gap with float level sensor normally closed.
3.	Switch OFF and	d then switch ON	V th	e machine.
4.	Modify Commu	nication and HA	CCI	P parameters:
	HEP	Enter into HCP	par	rameter family and set the following parameters.
		SEr !	9	Dishwasher with incorporated continuous water softener.
5.	Switch OFF and	d then switch ON	V th	e machine.

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PROG 045 WT38MEDWS 1. Switch OFF and then switch ON the machine. 2. **EFG** Enter into CFG parameter family and set the following parameters. **LYP** Under counter like working cycles. bo , Atmospheric boiler. daa 2 Front loading. 3 dFL Default values for Undercounter models. SOFT START ENABLED. Tank heater works only if boiler temperature reached. b_E **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. **U** 1 ACTIVE function disabled (up to version 3.11 set to 2). rE Regeneration cycle disabled (only for dishwashers with non-continuous water softener). ALr Alarms enabled. AAG Air gap with float level sensor normally closed. 3. Switch OFF and then switch ON the machine. Modify Factory parameters: FAC Enter into FAC parameter family and change boiler threshold. 90 **b**ET Boiler Temperature Threshold. ьн . 0 Disable boiler high Temperature alarm (**?**). ЬЯЫ 0 Boiler Temperature Adjust. 0 **65**£ Booster function not needed. btd 10 During stand-by boiler is kept at lower temperature than Temperature Threshold. 65 tt[Tub Temperature Threshold. 85 EH . Tank high Temperature limit. 5. Modify the cycle parameters: [41 Cycle 1 parameters family. Lnl Long Wash Phase [min] 5h 1 10 Short Wash Phase [s] - 11 **35** Rinse Phase Duration [s] dr 1 40 Drain [s] FP 1 15 Final Pause at End of Cycle [42 Cycle 2 parameters family. LnZ Long Wash Phase [min] 542 10 Short Wash Phase [s] r 12 **35** Rinse Phase Duration [s] dr2 40 Drain [s] Final Pause at End of Cycle FP2 [43 Cycle 3 parameters family. Enl Long Wash Phase [min] 5h3 10 Short Wash Phase [s] **35** r 13 Rinse Phase Duration [s] dr 3 40 Drain [s] FP3 15 Final Pause at End of Cycle 6. Modify Communication and HACCP parameters: H[P Enter into HCP parameter family and set the following parameters.

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Dishwasher with incorporated continuous water softener.

SEr

Switch OFF and then switch ON the machine.

3. Switch OFF and then switch ON the machine

F	L620	0 / LV	/ 6 /	WT30 6000W ATM	PROG 046
1.	Switch OFF	and then swit	ch ON th	ne machine	-
2.	[FG	Enter into	CFG pa	rameter family and set the following parameters.	
		FAL	0	Hood Type like working cycles.	
		bo ,	0	Atmospheric boiler.	
		doo	2	Front loading.	
		dFL	3	Default values for Undercounter models.	
		trc	1	SOFT START ENABLED.	
		b_t	1	Tank heater works only if boiler temperature reached.	
		bef	75	Enable filling tank by means of rinsing cycles.	
		LE5	0	Detergent level switches not enabled.	
		<i>u</i> 1	8	ACTIVE function disabled (up to version 3.11 set to 3).	
		rE	0	Regeneration cycle disabled.	
		ALr	1	Alarms enabled.	

L	.U70	0A /	ET7	'ADP	PROG 047
1.	Switch OFF	and then swi	tch ON th	e machine	
2.	[F G	Enter into	CFG pa	rameter family and set the following parameters.	
		ŁУР	0	Hood Type like working cycles.	
		bo i	0	Atmospheric boiler.	
		doo	2	Front loading.	
		dFL	1	Default values for Hood Type models.	
		tre	1	SLOW SOFT START ENABLED	
		b_£	1	Tank heater works only if boiler temperature reached.	
		bef	75	Enable filling tank by means of rinsing cycles.	
		LE5	0	Detergent level switches not enabled.	
		<i>U 1</i>	8	ACTIVE function disabled (up to version 3.11 set to 2).	
		rE	0	Regeneration cycle disabled.	
		ALr	1	Alarms enabled.	
3.	Switch OFF	and then swi	tch ON th	e machine.	
4.	Modify Fact	tory paramete	rs:		
	FAC	Enter into	FAC pa		
		PFI	82	Boiler Temperature Threshold.	
		ьяJ	0	Boiler Temperature Adjust.	
		b5t	1	Booster Function.	
5.	Modify the	cycle paramet	ers:		
	[45	Cycle 2 p	parameter	s family.	
		LnZ	1	Long Wash Phase [min].	
		5h2	10	Short Wash Phase [s].	
	EY3	Cycle 3 p	aramete	s family.	
		Enl	4	Long Wash Phase [min].	
6.	Switch OFF	and then swi	tch ON th	e machine.	

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FL620WS / LV6WS / WT38WS **PROG 048** 1. Switch OFF and then switch ON the machine. 2. **EFG** Enter into CFG parameter family and set the following parameters. **LYP** Undercounter like working cycles. bo . 0 Atmospheric boiler. 2 daa Front loading. dFL 3 Default values for Undercounter models. SOFT START ENABLED. b_E Tank heater works only if boiler temperature reached. **b**ŁF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. *u 1* Select user interface hood type model (up to version 3.11 set to 1). rE Regeneration cycle disabled (only for dishwashers with non-continuous water softener). ALr Alarms enabled. AAG Air gap with float level sensor normally closed. 3. Switch OFF and then switch ON the machine. Modify Communication and HACCP parameters: Enter into HCP parameter family and set the following parameters. 5Er Dishwasher with incorporated continuous water softener. 5. Switch OFF and then switch ON the machine.

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E	ET5EDF PRO						
1.	Switch OFF	and then sw	ritch ON th	e machine.			
2.	[F G	Enter int	to CFG pa	rameter family and set the following parameters.			
		F Ab	0	Hood Type like working cycles.			
		bo ,	0	Atmospheric boiler.			
		doo	2	Front loading.			
		dFl	3	Default values for Undercounter models.			
		trc	1	SOFT START ENABLED.			
		b_£	1	Tank heater works only if boiler temperature reached.			
		bef	75	Enable filling tank by means of rinsing cycles.			
		LE5	0	Detergent level switches not enabled.			
		<i>U 1</i>	8	ACTIVE function disabled (up to version 3.11 set to 2).			
		r E	8	Regeneration cycle disabled.			
		ALr	1	Alarms enabled.			
3.	Switch OFF	and then sw	ritch ON th	ne machine.			
4.		cycle parame	ters:				
	[4 1		paramete	•			
		Lnl	1	Long Wash Phase [min.]			
		5h 1	5	Short Wash Phase [s].			
		ril	15	Rinse Phase Duration [s].			
		dr 1	30	Drain [s].			
		FP 1	4	Final Pause [s].			
	[72		parametei	rs family.			
		LnZ	1	Long Wash Phase [min].			
		5h2	35	Short Wash Phase [s].			
		r 12	15	Rinse Phase Duration [s].			
		dr2	30	Drain [s].			
		FP2	4	Final Pause [s].			
	EY3		parametei	rs family.			
		Enl	1	Long Wash Phase [min].			
		5h3	31	Short Wash Phase [s].			
		r 13	20	Rinse Phase Duration [s].			
		dr 3	40	Drain [s].			
		FP3	4	Final Pause [s].			
		6 t d	65	Boiler temperature[°C].			
	drn	•	rameters	family.			
		ldr	30	Initial Drain Phase Duration [s].			
	dPA		r paramet	ers.			
		1PA	5	Initial Pause [s].			
5.		and then sw		e machine.			
6.		ergent dosage					
	GEn			rameter family.			
		dE Ł	18 1	Detergent dispenser works when WASHING PUMP in activated.			
		rA ı	Б 1	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activa	ited.		

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7. Switch OFF and then switch ON the machine.

PROG 050 ET12EIF 1. Switch OFF and then switch ON the machine. 2. **EFG** Enter into CFG parameter family and set the following parameters. **LYP** Hood Type like working cycles. bo . Atmospheric boiler. daa Manual Hood. dFL Default values for Hood Type models. 0 (for this appliance SOFT START is NOT possible). tre b_E Tank heater works only if boiler temperature reached. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. **U** 1 8 ACTIVE function disabled (up to version 3.11 set to 2). rE Regeneration cycle disabled. ALr ALARMS ENABLED. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAC Enter into FAC parameter family. PFI Boiler Temperature Threshold. ьял Boiler Temperature Adjust. 5. Modify the cycle parameters: [41 Cycle 1 parameters family. Ln1 1 Long Wash Phase [min] 5h 1 5 Short Wash Phase [s] r 11 15 Rinse Phase Duration [s] dr 1 15 Drain [s] FP 1 4 Final Pause [s] [42 Cycle 2 parameters family. LnZ 1 Long Wash Phase [min] 5h2 35 Short Wash Phase [s] - 12 15 Rinse Phase Duration [s] dr2 15 Drain [s] FP2 4 Final Pause [s] **EY3** Cycle 3 parameters family. Enl Long Wash Phase [min] 5h3 3 I Short Wash Phase [s] Fi 7 20 Rinse Phase Duration [s] dr 3 20 Drain [s] FP3 Final Pause [s] 4 bt 3 65 Boiler temperature[°C] 6. Switch OFF and then switch ON the machine. 7. Modify Detergent dosage: GEn Enter into GEn parameter family. dEt Detergent dispenser works when WASHING PUMP in activated. rA, **5** 1 Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated. 8. Switch OFF and then switch ON the machine.

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W	T37L	EV/9	PROG 051
1. Sw	witch OFF and t	hen switch ON th	e machine.
2.	(FG E	inter into CFG pa	rameter family and set the following parameters.
	Ł	YP 0	Hood Type like working cycles.
	Ь	0	Atmospheric boiler.
	d	loo 2	Front loading.
	d	IFL 3	Default values for Undercounter models.
	Ł	re 1	SOFT START ENABLED.
	Ь	_E 1	Tank heater works only if boiler temperature reached.
	Ь	£F 75	Enable filling tank by means of rinsing cycles.
	L	E5 1	Detergent level switches enabled.
	ü	11 9	Select user interface hood type model (up to version 3.11 set to 1).
	,	E O	Regeneration cycle disabled.
	A	ILr 1	Alarms enabled.
3. Sw	witch OFF and t	hen switch ON th	e machine.
4. Mc	odify the cycle p	parameters:	
6	dra D	rain/Cleaning Cy	cle Parameters.
	d	Irt 1	Drain without cleaning cycle.
5. Sw	witch OFF and t	hen switch ON th	e machine.

L	.14RC) WC	W7	T65ROW	PROG 052				
1.	Switch OFF and then switch ON the machine.								
2.	[FG	Enter into	CFG pa	ameter family and set the following parameters.					
		ŁУР	0	Hood Type like working cycles.					
		bo ,	1	Pressure boiler.					
		doo	1	Manual Hood.					
		dFL	1	Default values for Hood Type models.					
		tre	0	(for this appliance SOFT START is NOT possible).					
		b_t	1	Tank heater works only if boiler temperature reached.					
		ЬŁF	8	The tank is filled into the traditional way.					
		LE5	8	Detergent level switches not enabled.					
		<i>U 1</i>	9	Select user interface hood type model (up to version 3	.11 set to 1).				
		r E	8	Regeneration cycle disabled.					
		ALr	1	Alarms enabled.					
3.	Switch OFF a	nd then swi	tch ON th	e machine.					
4.	Modify Factor								
	FAC	Enter into	FAC par	ameter family and change boiler threshold.					
		PFL	84	Boiler Temperature Threshold.					
		ьяJ	0	Boiler Temperature Adjust.					
		ЬP	0	Boiler Priority Disabled.					
		65E	1	Booster Function.					
5.	Modify the cyc	cle paramet	ers:						
	[75	Cycle 2 p							
		5h2	55	Short Wash Phase [s].					
	[43	Cycle 3 p		s family.					
		Enl	4	Long Wash Phase [min].					
6.	Switch OFF and then switch ON the machine.								

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PROG 053 LS6SANA 1. Switch OFF and then switch ON the machine. Enter into CFG parameter family and set the following parameters. 2. **EFG LYP** Medical line dishwasher with lock door/hood device. bo . Atmospheric boiler. 2 daa Front loading. 3 dFL Default values for Undercounter models. 0 SOFT START ENABLED. Tank heater works only if boiler temperature reached. b_E **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 Detergent level switches not enabled. **U** 1 9 Select user interface hood type model (up to version 3.11 set to 1). rE 0 Regeneration cycle disabled. ALr Alarms enabled. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAE Enter into FAC parameter family and change boiler threshold. PFI Boiler Temperature Threshold. ьн . 0 Disable boiler high Temperature alarm (**[2**). ьял 0 Boiler Temperature Adjust. 0 b5Ł Booster function not needed. 10 btd During stand-by boiler is kept at lower temperature than Temperature Threshold. FFE 65 Tub Temperature Threshold. 85 EH . Tank high Temperature limit. 5. Modify the cycle parameters: [41 Cycle 1 parameters family. Lal Long Wash Phase [min] 5h 1 10 Short Wash Phase [s] 35 Rinse Phase Duration [s] rildr 1 40 Drain [s] FP 1 15 Final Pause at End of Cycle [42 Cycle 2 parameters family. LnZ 6 Long Wash Phase [min] 542 10 Short Wash Phase [s] r 12 35 Rinse Phase Duration [s] dr2 40 Drain [s] FP2 15 Final Pause at End of Cycle **EY3** Cycle 3 parameters family. Enl Long Wash Phase [min] 5h3 10 Short Wash Phase [s] F, 7 35 Rinse Phase Duration [s] dr 3 40 Drain [s] FPA 15 Final Pause at End of Cycle 6. Switch OFF and then switch ON the machine.

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PROG 054 LS14SANA Switch OFF and then switch ON the machine. Enter into CFG parameter family and set the following parameters. **LYP** 3 Medical line dishwasher with lock door/hood device. bo . Atmospheric boiler. daa Manual hood. dFL Default values for Hood Type models. (for this appliance SOFT START is NOT possible). 1 Tank heater works only if boiler temperature reached. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. **11** 1 9 Select user interface hood type model (up to version 3.11 set to 1). rE 0 Regeneration cycle disabled. ALr Alarms enabled. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAC Enter into FAC parameter family and change boiler threshold. **b**ET 90 Boiler Temperature Threshold. ьн . 0 Disable boiler high Temperature alarm (**?**). ьяј Boiler Temperature Adjust. **65**£ 0 Booster function not needed. 65 **ŁŁ**[Tub Temperature Threshold. EH . 85 Tank high Temperature limit. 5. Modify the cycle parameters: [41 Cycle 1 parameters family. 2 Lnl Long Wash Phase [min] Short Wash Phase [s] 5h 1 32 r 11 35 Rinse Phase Duration [s] dr 1 40 Drain [s] FP 1 15 Final Pause at End of Cycle [42 Cycle 2 parameters family. LnZ 3 Long Wash Phase [min] 5h2 3E Short Wash Phase [s] r 12 35 Rinse Phase Duration [s] dr2 40 Drain [s] FP2 15 Final Pause at End of Cycle [43 Cycle 3 parameters family. Enl 5 Long Wash Phase [min] 5h3 32 Short Wash Phase [s] r 13 35 Rinse Phase Duration [s] dr 3 40 Drain [s] FP3 15 Final Pause at End of Cycle

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6. Switch OFF and then switch ON the machine.

W	/T38	WL		PROG 055			
1. \$	Switch OFF	and then swi	tch ON th	ne machine.			
2.	[FG	Enter into	CFG pa	rameter family and set the following parameters.			
		ŁУР	0	Medical line dishwasher with lock door/hood device.			
		bo ı	8	Atmospheric boiler.			
		doo	2	Front loading.			
		dFL	3	Default values for Undercounter models.			
		trc	1	SOFT START ENABLED.			
		b_t	1	Tank heater works only if boiler temperature reached.			
		b ŁF	65	Enable filling tank by means of rinsing cycles.			
		LE5	0	Detergent level switches not enabled.			
		<i>U 1</i>	9	Select user interface hood type model (up to version 3.11 set to 1).			
		rE	0	Regeneration cycle disabled.			
		ALr	1	Alarms enabled.			
3. 5	Switch OFF	and then swit	tch ON th	ne machine.			
l. N	Modify Fact	tory parameter	rs:				
	FAC	Enter into	FAC pa	rameter family and change boiler threshold.			
		PFI	80	Boiler Temperature Threshold.			
		ьн ,	96	Disable boiler high Temperature alarm ([2).			
		ьяJ	8	Boiler Temperature Adjust.			
		b5t	2	Booster function not needed.			
		btd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.			
		FF[55	Tub Temperature Threshold.			
		FFH	2	HISTERESIS of Tank Temperature.			
5. N	Modify the cycle parameters:						
	LY Cycle 1 parameters family.						
		Lnl	1	Long Wash Phase [min]			
		5h 1	10	Short Wash Phase [s]			
		PR I	4	Pause [s]			
		ril	15	Rinse Phase Duration [s]			
		dr 1	30	Drain [s]			
		FP 1	0	Final Pause at End of Cycle [s].			
	[45	Cycle 2 p	aramete	rs family.			
		LnZ	1	Long Wash Phase [min]			
		5h2	30	Short Wash Phase [s]			
		PR2	4	Pause [s]			
		r 12	19	Rinse Phase Duration [s]			
		dr2	35	Drain [s]			
		FPZ	0	Final Pause at End of Cycle[s].			
-	[43	Cycle 3 p	aramete				
-		Enl	2	Long Wash Phase [min]			
		5h3	30	Short Wash Phase [s]			
		PR3	4	Pause [s]			
		r 13	19	Rinse Phase Duration [s]			
		dr3	35	Drain [s]			
		FP3	0	Final Pause at End of Cycle [s].			
	drn	Drain par					
F	<i>u,</i>	1dr	30	Initial Drain Phase Duration [s].			
		101	טנ	וווומו בימודד וומפר בעומנוטוו נפן.			

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V	WT38WL PROG 055					
6.	Switch OFF	and then swi	itch ON th	e machine.		
7.	Modify Deter	gent dosage	: :			
	GEn	Enter into GEn parameter family.				
		d In	25	Initial Detergent Dosage.		
		dEt	4	Detergent dispenser works when LOAD SOLENOID VALVE in activated.		
8.	Switch OFF	and then swi	itch ON th	e machine.		

٧	VT30	HWS	3	PROG 056				
1.	Switch OFF	and then swit	tch ON th	ne machine.				
2.	[FG	Enter into CFG parameter family and set the following parameters.						
		ŁУР	0	Hood Type like working cycles.				
		bo ı	0	Atmospheric boiler.				
		doo	2	Front loading door type.				
		dFL	3	Default values for Undercounter models.				
		tre	1	SOFT START ENABLED.				
		b_t	1	Tank heater works only if boiler temperature reached.				
		bef	75	Enable filling tank by means of rinsing cycles.				
		LE5	0	Detergent level switches not enabled.				
		<i>u</i> 1	9	Select user interface hood type model (up to version 3.11 set to 1).				
		rE	8	Regeneration cycle disabled.				
		ALr	1	ALARMS ENABLED.				
		ARG	1	Air gap with float level sensor normally closed.				
3.	Switch OFF	and then swi	tch ON th	ne machine.				
4.		dify Factory parameters:						
	FAE			rameter family.				
		PFI	84	Boiler Temperature Threshold.				
		ьяJ	0	Boiler Temperature Adjust.				
		bt d	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.				
		FF[<i>68</i>	Tank Temperature Threshold.				
		FFH	2	HISTERESIS of Tank Temperature.				
5.		cycle paramet						
	[4 1	Cycle 1 p		•				
		Lni	1	Long Wash Phase [min]				
		5h 1	37	Short Wash Phase [s]				
		PA 1	4	Pause [s]				
		r i i	13	Rinse Phase Duration [s]				
	547	FP 1	5	Final Pause [s]				
	[75	Cycle 2 p						
		rus Lus	2	Long Wash Phase [min]				
		5h2	37	Short Wash Phase [s]				
		PA2	4	Pause [s]				
		د اح	13	Rinse Phase Duration [s]				
l		FP2	5	Final Pause [s]				

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WT30HWS **PROG 056** [43 Cycle 3 parameters family. Enl Long Wash Phase [min] Short Wash Phase [s] 5h3 PA3 Pause [s] r 13 13 Rinse Phase Duration [s] FP3 5 Final Pause [s] dPR Set other parameters. [F Fahrenheit. 6. Modify Communication and HACCP parameters: HEP Enter into HCP parameter family and set the following parameters. Dishwasher with incorporated continuous water softener. 7. Switch OFF and then switch ON the machine. 8. Modify Detergent dosage: GEn Enter into GEn parameter family. Detergent Dosage During Cycle Execution (during wash phase) Rinse Aid Dosage During Cycle Execution (when refilling boiler) 9. Switch OFF and then switch ON the machine.

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V	/T65	HWS	3	PROG 05
1.	Switch OFF	and then swi	tch ON th	ne machine.
2.	[FG	Enter into	CFG pa	rameter family and set the following parameters.
		F Ab	0	Hood Type like working cycles.
		bo 1	0	Atmospheric boiler.
		doo	1	Manual Hood.
		dFL	1	Default values for Hood Type models.
		trc	0	(for this appliance SOFT START is NOT possible).
		b_t	1	Tank heater works only if boiler temperature reached.
		b ŁF	75	Enable filling tank by means of rinsing cycles.
		LE5	0	Detergent level switches not enabled.
		<i>U 1</i>	9	Select user interface hood type model (up to version 3.11 set to 1).
		rE	0	Regeneration cycle disabled.
		ALr	1	ALARMS ENABLED.
		AAG	1	Air gap with float level sensor normally closed.
3.	Switch OFF	and then swi	tch ON th	· · ·
١.	Modify Factor	ory paramete	rs:	
	FAC	Enter into	FAC pa	rameter family.
		ьŁТ	84	Boiler Temperature Threshold.
		ьяы	0	Boiler Temperature Adjust.
		t t [73	Tank Temperature Threshold.
		FFH	2	HISTERESIS of Tank Temperature.
		ŁŁ,	83	Tank high Temperature limit.
	Modify the c	ycle paramet	ers:	
	[41	Cycle 1 p	oarametei	rs family.
		5h 1	37	Short Wash Phase [s]
		PA I	4	Pause [s]
		ril	13	Rinse Phase Duration [s]
		FP 1	5	Final Pause [s]
	[45	Cycle 2 p	paramete	rs family.
		5h2	47	Short Wash Phase [s]
		PA2	4	Pause [s]
		2، م	13	Rinse Phase Duration [s]
		FP2	5	Final Pause [s]
	[43	Cycle 3 p	paramete	
		5h3	37	Short Wash Phase [s]
		PA3	4	Pause [s]
		r 13	13	Rinse Phase Duration [s]
		FP3	5	Final Pause [s]
	drn	Drain par		
		Fdr	80	Final Drain Phase Duration [s].
	dPA	Set other		
	_ · · ·	[F	1	Fahrenheit.
	Modify Com			P parameters:
•	HEP			rameter family and set the following parameters.
		5 <i>E</i> r	9 <u>9</u> 4	Dishwasher with incorporated continuous water softener.
	Switch OFF	and then swi		·
		rgent dosage		
	GEn			rameter family.
	<u> </u>		5	Detergent Dosage During Cycle Execution (during wash phase)
		dEt		Potorgont Posago Panny Oyolo Excoution taanna wash bhaset

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E	T12	EWS		PROG 058			
1.	Switch OFF	OFF and then switch ON the machine.					
2.	[FG	rameter family and set the following parameters.					
		F Ab	0	Hood Type like working cycles.			
		bo 1	8	Atmospheric boiler.			
		doo	1	Manual Hood.			
		dFL	1	Default values for Hood Type models.			
		tre	0	(for this appliance SOFT START is NOT possible).			
		b_t	0	Tank and boiler heaters work simultaneously.			
		b ŁF	75	Enable filling tank by means of rinsing cycles.			
		LE5	0	Detergent level switches not enabled.			
		<i>u</i> 1	9	Select user interface hood type model (up to version 3.11 set to 1).			
		r E	8	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).			
		ALr	1	Alarms enabled.			
		AAG	1	Air gap with float level sensor normally closed.			
3.	Switch OFF	and then swi	tch ON th	e machine.			
4.	Modify Fact	ory paramete	rs:				
	FAC	Factory p	arameter	s family.			
		PFL	82	Boiler Temperature Threshold.			
		ьяы	2	Boiler Temperature Adjust.			
	drn	Drain par	ameters	family.			
		Fdr	80	Final Drain Phase Duration [s].			
5.	Modify Com	munication a	nd HACC	P parameters:			
	HEP	Enter into	HCP pa	rameter family and set the following parameters.			
		5Er	9	Dishwasher with incorporated continuous water softener.			
6.	Switch OFF	and then swi	tch ON th	e machine.			

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E	T12	EIWS	5	PROG 059				
1.	Switch OFF	and then swit	ch ON th	e machine.				
2.	EFG Enter into CFG parameter family and set the following parameters.							
		F Ab	0	Hood Type like working cycles.				
		bo ,	0	Atmospheric boiler.				
		doo	1	Manual Hood.				
		dFL	1	Default values for Hood Type models.				
		trc	0	(for this appliance SOFT START is NOT possible).				
		b_t	0	Tank and boiler heaters work simultaneously.				
		b ŁF	75	Enable filling tank by means of rinsing cycles.				
		LE5	0	Detergent level switches not enabled.				
		<i>U 1</i>	9	Select user interface hood type model (up to version 3.11 set to 1).				
		r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).				
		ALr	1	Alarms enabled.				
		AAG	1	Air gap with float level sensor normally closed.				
3.	Switch OFF	and then swit	ch ON th	e machine.				
4.	Modify Fact	ory parameter	s:					
	FAC	Factory p	arameter	rs family.				
		ьŁГ	82	Boiler Temperature Threshold.				
		ьЯJ	2	Boiler Temperature Adjust.				
	drn	Drain par	ameters	family.				
		Fdr	80	Final Drain Phase Duration [s].				
5.	Modify Com	munication ar	nd HACC	P parameters:				
	HEP	Enter into	HCP pa	rameter family and set the following parameters.				
		5Er	9	Dishwasher with incorporated continuous water softener.				
6.	Switch OFF	and then swit	ch ON th	e machine.				

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ET5EDWS PROG 060 1. Switch OFF and then switch ON the machine. 2. **EFG** Enter into CFG parameter family and set the following parameters. **LYP** Hood Type like working cycles. bo . Atmospheric boiler. daa 2 Front loading. 3 dFL Default values for Undercounter models. SOFT START ENABLED. 0 b_E Tank and boiler heaters work simultaneously. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. **U** 1 ACTIVE function disabled (up to version 3.11 set to 2). rE Regeneration cycle disabled. ALr Alarms enabled. AAG Air gap with float level sensor normally closed. 3. Switch OFF and then switch ON the machine. Modify Factory parameters: FAC Enter into FAC parameter family and change boiler threshold. **b**ET Boiler Temperature Threshold btd During stand-by boiler is kept at lower temperature than Temperature Threshold. 5. Modify the cycle parameters: [41 Cycle 1 parameters family. Lal Long Wash Phase [min] 10 5h 1 Short Wash Phase [s] 25 Rinse Phase Duration [s] r 11 dr 1 40 Drain [s] FP 1 Final Pause [s] [42 Cycle 2 parameters family. LnZ 2 Long Wash Phase [min] 542 22 Short Wash Phase [s] r 12 25 Rinse Phase Duration [s] dr2 40 Drain [s] FP2 Final Pause [s] [43 Cycle 3 parameters family. Enl 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] drn Drain parameters family. 1dr 30 Initial Drain Phase Duration [s]. dPR Set other parameters. 1PA 5 Initial Pause [s]. 6. Modify Communication and HACCP parameters: HEP Enter into HCP parameter family and set the following parameters. 5Er Dishwasher with incorporated continuous water softener. Switch OFF and then switch ON the machine.

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PROG 061 LU7ADPWS Switch OFF and then switch ON the machine. Enter into CFG parameter family and set the following parameters. Ł YP Hood Type like working cycles. bo . 0 Atmospheric boiler. daa Front loading. dFL Default values for Hood Type models. SLOW SOFT START ENABLED 1 Tank heater works only if boiler temperature reached. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 Detergent level switches not enabled. **11** 1 9 Select user interface hood type model (up to version 3.11 set to 1). rE Regeneration cycle disabled. ALr Alarms enabled. AAG Air gap with float level sensor normally closed. 3. Switch OFF and then switch ON the machine. Modify Factory parameters: FAC Enter into FAC parameter family and change boiler threshold. **b**ET 82 Boiler Temperature Threshold. ЬЯЈ Boiler Temperature Adjust. b5Ł Booster Function. 5. Modify the cycle parameters: [45 Cycle 2 parameters family. LnZ Long Wash Phase [min] 5h2 10 Short Wash Phase [s] [43 Cycle 3 parameters family. Ln3 Long Wash Phase [min]. drn Drain parameters family. Fdr 80 Final Drain Phase Duration [s]. 6. Modify Communication and HACCP parameters: HEP Enter into HCP parameter family and set the following parameters. 5Er Dishwasher with incorporated continuous water softener. Switch OFF and then switch ON the machine.

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7. Switch OFF and then switch ON the machine.

LU700ADPWS PROG 062 1. Switch OFF and then switch ON the machine. **EFG** Enter into CFG parameter family and set the following parameters. **LYP** Hood Type like working cycles. bo . 0 Atmospheric boiler. daa Front loading. dFL Default values for Hood Type models. 3 SLOW SOFT START ENABLED Tank heater works only if boiler temperature reached. b_E **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. ACTIVE function disabled (up to version 3.11 set to 2). **U** 1 rE Regeneration cycle disabled. ALr Alarms enabled. AAG Air gap with float level sensor normally closed. 3. Switch OFF and then switch ON the machine. Modify Factory parameters: FAC Enter into FAC parameter family and change boiler threshold. PFL 82 Boiler Temperature Threshold Boiler Temperature Adjust. ьяы **65**£ Booster Function. 5. Modify the cycle parameters: [45 Cycle 2 parameters family. LnZ Long Wash Phase [min] 542 10 Short Wash Phase [s] EY3 Cycle 3 parameters family. Enl 4 Long Wash Phase [min] drn Drain parameters family. Fdr 80 Final Drain Phase Duration [s] 6. Modify Communication and HACCP parameters: HEP Enter into HCP parameter family and set the following parameters. Dishwasher with incorporated continuous water softener.

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LS5WS / WT4WS TRIFASE (From Ser. Nr.: 807)

PROG 063

2.	[F G	Enter into	CFG pa	rameter family and set the following parameters.
		£ YP	0	Hood Type like working cycles.
		bo ,	0	Atmospheric boiler.
		doo	2	Front loading door type.
		dFL	3	Default values for Undercounter models.
		tre	1	SOFT START ENABLED.
		b.t	1	Tank heater works only if boiler temperature reached.
		b ŁF	75	Enable filling tank by means of rinsing cycles.
		LE5	0	Detergent level switches not enabled.
			8	ACTIVE function disabled (Up to Ser. Nr.: 820).
		U 1	24	Select user interface for LS5 (From Ser. Nr.: 821).
		rE	1	Regeneration cycle enabled.
		ALr	0	ALARMS NOT ENABLED.
3.	Switch OFF	and then swit	ch ON th	e machine.
4.	Modify Facto	ory parameter	s:	
	FAC	Enter into	FAC pa	rameter family.
		PFL	83	Boiler Temperature Threshold.
		ьяJ	2	Boiler Temperature Adjust.
		b5t	2	Booster Function.
5.		ycle parameto	ers:	
	[41	Cycle 1 p	arameter	rs family.
		Lnl	1	Long Wash Phase [min]
		5h 1	40	Short Wash Phase [s]
	[72	Cycle 2 p	arameter	rs family
		LnZ	2	Long Wash Phase [min]
		5h2	40	Short Wash Phase [s]
	[43	Cycle 3 p	arameter	rs family
		Enl	2	Long Wash Phase [min]
		5h3	40	Short Wash Phase [s]
6.	Switch OFF	and then swit	ch ON th	e machine.
7.	GE n	Enter into	GEn pa	rameter family.
		d In	70	Initial Detergent Dosage [s].
		r In	5	Initial Rinse Aid Dosage [s].
8.	Ent	Counters		
		r[Y	20	Number of cycles allowed before regeneration.

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LS5 / WT4 PRES (From Ser. Nr.: 807)

PROG 064

1	Switch OFF a	nd than avvit	tah ON th	o machina		
1. 2.	Switch OFF a			e macnine. cameter family and set the following parameters.		
۷.	LFU	Enter into		Hood Type like working cycles.		
				,,		
		bo i	1	Pressure boiler.		
		doo	2	Front loading door type.		
		dFL	3	Default values for Undercounter models.		
		trc		SOFT START ENABLED.		
		b_£	<i>'</i>	Tank heater works only if boiler temperature reached.		
		bł F	0	The tank is filled into the traditional way.		
		LE5	0	Detergent level switches not enabled.		
		<i>u</i> 1	8	ACTIVE function disabled (Up to Ser. Nr.: 820).		
		_	24	Select user interface for LS5 (From Ser. Nr.: 821).		
		r E	0	Regeneration cycle enabled.		
		ALr	0	ALARMS NOT ENABLED.		
	Switch OFF a			e machine.		
4.	Modify Factor			and the family		
	FAC		-	ameter family.		
		PFI	84	Boiler Temperature Threshold.		
		ьяJ	3	Boiler Temperature Adjust.		
		65E	2	Booster Function.		
5.	Modify the cy					
	[4]	Cycle 1 p		•		
		Lai	1	Long Wash Phase [min]		
	F.43	5h 1	40	Short Wash Phase [s]		
	[75	Cycle 2 p		•		
		LnZ	2	Long Wash Phase [min]		
	F.47	5h2	40	Short Wash Phase [s]		
	[Y3	Cycle 3 p		•		
		Enl	2	Long Wash Phase [min]		
		5h3	40	Short Wash Phase [s]		
	Switch OFF a			e machine.		
7.	Modify Deterg	·		and the family		
	GEn		-	ameter family.		
		d In	165	Initial Detergent Dosage.		
		r in	0	Initial Rinse Aid Dosage.		
		dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE in activated.		
		rA i	<i>61</i>	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.		
8.	Switch OFF and then switch ON the machine.					

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LS5 / WT4 MONO (From Ser. Nr.: 807)

PROG 065

2.	[F G	Enter into	CFG pa	rameter family and set the following parameters.				
		£ YP	8	Hood Type like working cycles.				
		bo ı	1	Pressure boiler.				
		doo	2	Front loading door type.				
		dFL	3	Default values for Undercounter models.				
		tre	0	(for this appliance SOFT START is NOT possible).				
		bak	1	Tank heater works only if boiler temperature reached.				
		bt F	0	The tank is filled into the traditional way.				
		LE5	0	Detergent level switches not enabled.				
			8	ACTIVE function disabled (Up to Ser. Nr.: 820).				
		<i>U 1</i>	24	Select user interface for LS5 (From Ser. Nr.: 821).				
		r E	0	Regeneration cycle disabled.				
		ALr	0	ALARMS NOT ENABLED.				
3.	Switch OFF	and then switch	ch ON th	e machine.				
4.		ory parameters	3:					
	FAC	Enter into FAC parameter family.						
		PFI	82	Boiler Temperature Threshold.				
		ьяJ	3	Boiler Temperature Adjust.				
		65E	2	Booster Function.				
5.		Modify the cycle parameters:						
	[4 1	Cycle 1 pa						
		Lal	1	Long Wash Phase [min]				
		5h 1	40	Short Wash Phase [s]				
	[75	Cycle 2 pa		·				
		rus.	2	Long Wash Phase [min]				
		5h2	40	Short Wash Phase [s]				
	[43	Cycle 3 pa		·				
		Enl	2	Long Wash Phase [min]				
		5h3	40	Short Wash Phase [s]				
6.		and then switch	ch ON th	e machine.				
7.		ergent dosage:	05	and the facility				
	<u>GE</u> n			rameter family.				
		d In	165	Initial Detergent Dosage.				
		r in	0	Initial Rinse Aid Dosage.				
		dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE in activated.				
		r A ı	<i>5 1</i>	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.				

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LS5WS / WT4WS MONO (From Ser. Nr.: 807)

PROG 066

1.	Switch OFF	and then switch	h ON th	e machine.
2.	[F G	Enter into 0	CFG pa	rameter family and set the following parameters.
		Ł YP	0	Hood Type like working cycles.
		bo ,	0	Atmospheric boiler.
		doo	2	Front loading door type.
		dFL	3	Default values for Undercounter models.
		tre	0	(for this appliance SOFT START is NOT possible).
		b_t	1	Tank heater works only if boiler temperature reached.
		bł F	75	Enable filling tank by means of rinsing cycles.
		LE5	0	Detergent level switches not enabled.
		и 1	8	ACTIVE function disabled (Up to Ser. Nr.: 820).
		u i	24	Select user interface for LS5 (From Ser. Nr.: 821).
		rE	1	Regeneration cycle enabled.
		ALr	0	ALARMS NOT ENABLED.
3.	Switch OFF	and then switch	h ON th	ne machine.
4.		ory parameters		
	FAC			rameter family.
		PFL	83	Boiler Temperature Threshold.
		Paj	2	Boiler Temperature Adjust.
		65£	2	Booster Function.
5.		ycle parameter		
	[41	Cycle 1 par	rameter	
		Lai	1	Long Wash Phase [min]
		5h 1	40	Short Wash Phase [s]
	[75	Cycle 2 par		
		rus.	2	Long Wash Phase [min]
		5h2	40	Short Wash Phase [s]
	EY3	Cycle 3 par		
		Enl	2	Long Wash Phase [min]
		5h3	40	Short Wash Phase [s]
		and then switch		
7.	<u>GE</u> n			rameter family.
		d In	0 T	Initial Detergent Dosage [s].
		r In	5	Initial Rinse Aid Dosage [s].
8.	Ent	Counters.		
		r[Y	20	Number of cycles allowed before regeneration.
9.	Switch OFF	and then switch	h ON th	ne machine.

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8. Switch OFF and then switch ON the machine.

LS5/1DPAUS (From Ser. Nr.: 807) PROG 067

	[FG	and then swi		
2.	LFU			rameter family and set the following parameters.
		FAL	0	Hood Type like working cycles.
		ьог		Pressure boiler.
		doo	2	Front loading door type.
		dFL	3	Default values for Undercounter models.
		trc	0	(for this appliance SOFT START is NOT possible).
		b_t	1	Tank heater works only if boiler temperature reached.
		bef	0	The tank is filled into the traditional way.
		LE5	0	Detergent level switches not enabled.
		11 1	8	ACTIVE function disabled (Up to Ser. Nr.: 820).
		<i>U</i> (24	Select user interface for LS5 (From Ser. Nr.: 821).
		rE	0	Regeneration cycle disabled.
		ALr	0	ALARMS NOT ENABLED.
3.	Switch OFF	and then swi	tch ON th	ne machine.
4.	Modify Fact	ory paramete	rs:	
	FAC	Enter into	FAC pa	rameter family.
		ЬŁΣ	82	Boiler Temperature Threshold.
		ьяј	3	Boiler Temperature Adjust.
		b5Ł	2	Booster Function.
5.	Modify the o	cycle paramet	ers:	
	[41	Cycle 1 p	oarameter	s family.
		Lnl	1	Long Wash Phase [min]
		5h 1	40	Short Wash Phase [s]
	[45	Cycle 2 p	parameter	rs family.
		LnZ	2	Long Wash Phase [min]
		5h2	40	Short Wash Phase [s]
	[Y3	Cycle 3 r	parameter	
		EnJ	2	Long Wash Phase [min]
	1			
				Short Wash Phase [s]
6	Switch OFF	5h3	40	Short Wash Phase [s]
		5h3 and then swi	4 ₿ tch ON th	• •
	Modify Dete	and then swi	tch ON th	ne machine.
		and then swi ergent dosage Enter into	tch ON the	ne machine. rameter family.
	Modify Dete	and then swi ergent dosage Enter into	tch ON the constant of the con	rameter family. Initial Detergent Dosage.
6. 7.	Modify Dete	5h3 and then swi ergent dosage Enter into	tch ON the	ne machine. rameter family.

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WT30H208DN / WT30H240DN **PROG 068** 1. Switch OFF and then switch ON the machine. 2. **EFG** Enter into CFG parameter family and set the following parameters. **LYP** Hood Type like working cycles. bo . Atmospheric boiler. daa 2 Front loading door type. dFL Default values for Undercounter models. SOFT START ENABLED. b_E Tank heater works only if boiler temperature reached. **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. **U** 1 ACTIVE function disabled (up to version 3.11 set to 2). rE Regeneration cycle disabled. ALr ALARMS ENABLED. 3. Switch OFF and then switch ON the machine. 4. Modify Factory parameters: FAE Enter into FAC parameter family. PFI Boiler Temperature Threshold. ЬЯЈ 0 Boiler Temperature Adjust. btd 3 During stand-by boiler is kept at lower temperature than Temperature Threshold. **FF**T 68 Tank Temperature Threshold. HISTERESIS of Tank Temperature. **EEH** 5. Modify the cycle parameters: [41 Cycle 1 parameters family. Long Wash Phase [min] Ln1 1 5h 1 37 Short Wash Phase [s] PA 1 4 Pause [s] ril 13 Rinse Phase Duration [s] FP 1 Final Pause [s] 5 [42 Cycle 1 parameters family. LnZ Long Wash Phase [min] 542 37 Short Wash Phase [s] PA2 4 Pause [s] r 12 13 Rinse Phase Duration [s] FP2 Б Final Pause [s] [43 Cycle 1 parameters family. Enl Long Wash Phase [min] 5h3 37 Short Wash Phase [s] PA3 Pause [s] r 13 13 Rinse Phase Duration [s] FP3 Final Pause [s] Б dPA Set other parameters. E FFahrenheit. Rinse Temperature Display. 6. Switch OFF and then switch ON the machine. 7. Modify Detergent dosage: GEn Enter into GEn parameter family. dEE Detergent Dosage During Cycle Execution (during wash phase) rA. Rinse Aid Dosage During Cycle Execution (when refilling boiler) 8. Switch OFF and then switch ON the machine.

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V	VTU ²	40A		PROG 069				
1.	Switch OFF	and then swi	tch ON th	ne machine				
2.	[FG	Enter into CFG parameter family and set the following parameters.						
		ŁУР	0	Hood Type like working cycles.				
		bo 1	0	Atmospheric boiler.				
		doo	2	Front loading.				
		dFL	1	Default values for Hood Type models.				
		trc	1	SLOW SOFT START ENABLED				
		b_t	1	Tank heater works only if boiler temperature reached.				
		bŁF	75	Enable filling tank by means of rinsing cycles.				
		LE5	0	Detergent level switches not enabled.				
		U 1	9	Select user interface hood type model (up to version 3.11 set to 1).				
		rE	0	Regeneration cycle disabled.				
		ALr	1	Alarms enabled.				
3.	Switch OFF	and then swi	tch ON th	ne machine.				
4.	Modify Fact	lodify Factory parameters:						
	FAC	Enter into FAC parameter family and change boiler threshold.						
		PFI	82	Boiler Temperature Threshold.				
		ьяJ	0	Boiler Temperature Adjust.				
		b5t	1	Booster Function.				
5.	Modify the	cycle paramet	ers:					
	[75	Cycle 2 p	aramete	rs family.				
		LnZ	1	Long Wash Phase [min].				
		5h2	10	Short Wash Phase [s].				
	[¥ 3	Cycle 3 p	aramete	rs family.				
		Enl	4	Long Wash Phase [min].				
6.	Switch OFF	and then swi	tch ON th	ne machine.				

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Switch OFF and then switch ON the machine.

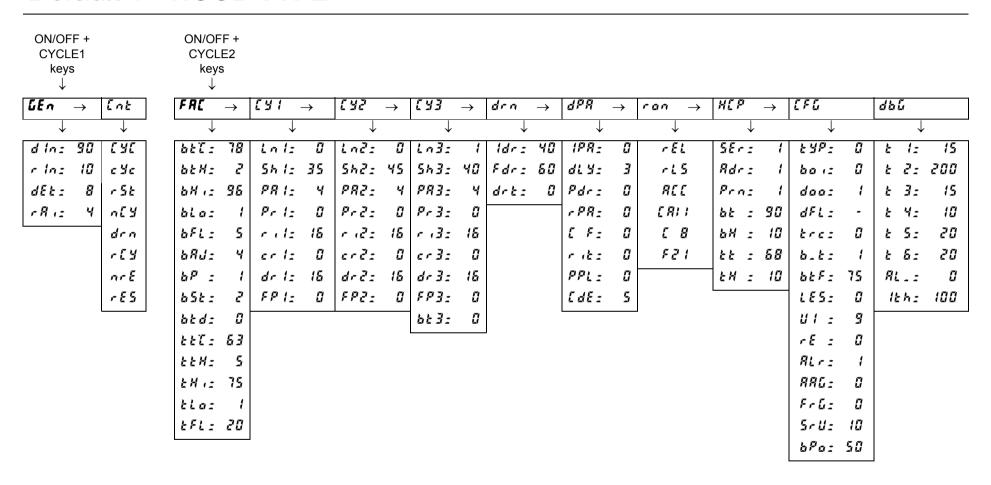
WTU40ADPWS **PROG 070** 1. Switch OFF and then switch ON the machine. 2. **EFG** Enter into CFG parameter family and set the following parameters. **LYP** Hood Type like working cycles. bo . 0 Atmospheric boiler. daa Front loading. dFL Default values for Hood Type models. 3 SLOW SOFT START ENABLED Tank heater works only if boiler temperature reached. b_E **b**EF 75 Enable filling tank by means of rinsing cycles. LE5 0 Detergent level switches not enabled. **U** 1 Select user interface hood type model (up to version 3.11 set to 1). rE Regeneration cycle disabled. ALr Alarms enabled. AAG Air gap with float level sensor normally closed. 3. Switch OFF and then switch ON the machine. Modify Factory parameters: FAC Enter into FAC parameter family and change boiler threshold. PFL 82 Boiler Temperature Threshold Boiler Temperature Adjust. ьяы 65£ Booster Function. 5. Modify the cycle parameters: [45 Cycle 2 parameters family. LnZ Long Wash Phase [min] 542 10 Short Wash Phase [s] EY3 Cycle 3 parameters family. Enl 4 Long Wash Phase [min] drn Drain parameters family. Fdr 80 Final Drain Phase Duration [s] 6. Modify Communication and HACCP parameters: HEP Enter into HCP parameter family and set the following parameters. Dishwasher with incorporated continuous water softener.

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11 DEFAULT VALUES

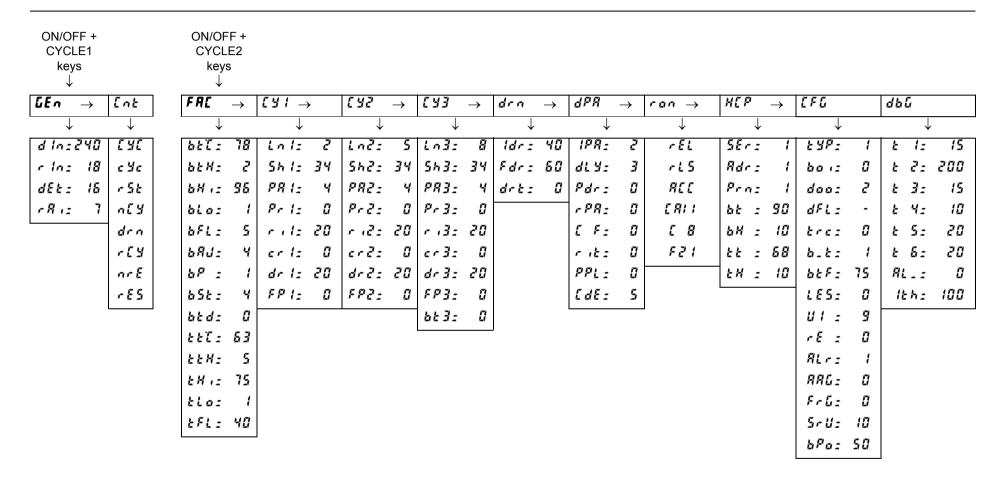
Default 1 - HOOD TYPE



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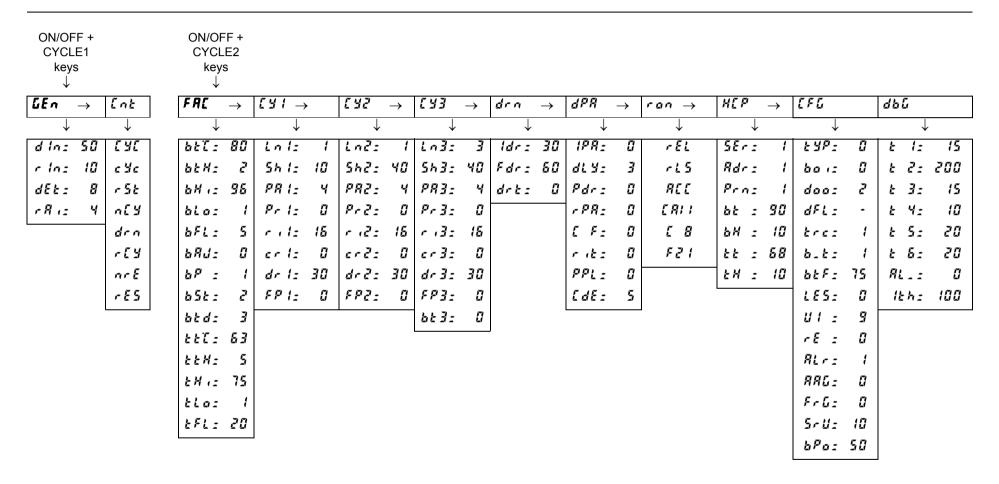
Default 2 - POT WASHER



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Default 3 - UNDERCOUNTER



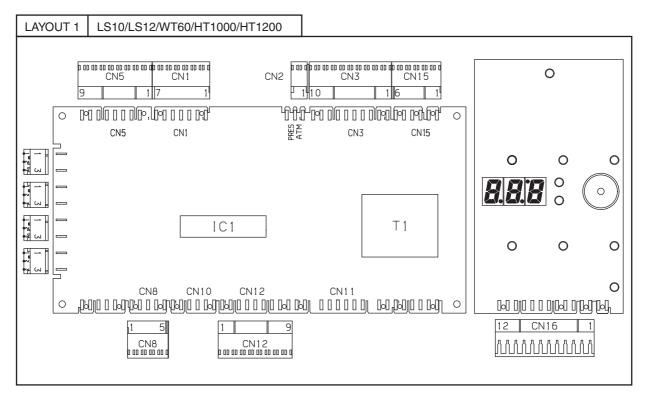
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12 USER INTERFACE AND MAIN BOARD CONNECTORS

12.1 MAIN MALFUNCTIONS NOT DUE TO THE MAIN BOARD

The display shows [LD5E 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.

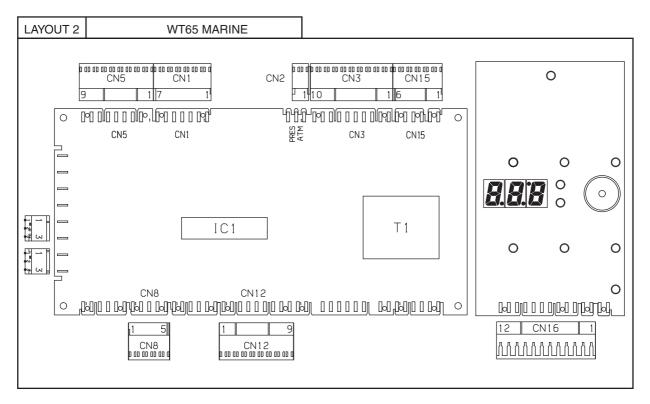
12.2 CONNECTORS LAYOUT

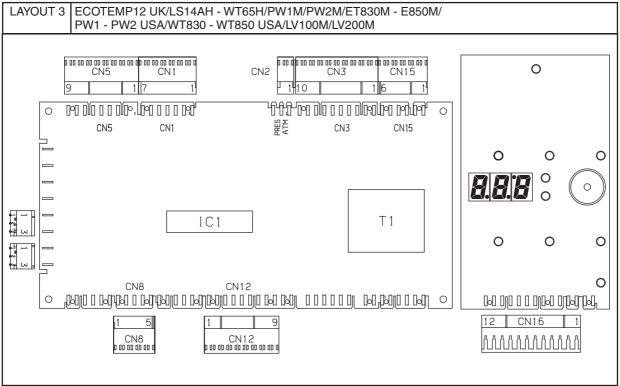


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CN1	Rinse pump/wash pump/solenoid valve outputs
CN2	Pressure/atmospheric dishwasher solenoid valve connection
CN3	Detergent/rinse aid dispenser outputs
CN5	Tank/boiler temperature sensor inputs
CN8	Energy peak controller input
CN12	User interface inputs/outputs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

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CN1 Rinse pump/wash pump/solenoid valve outputs

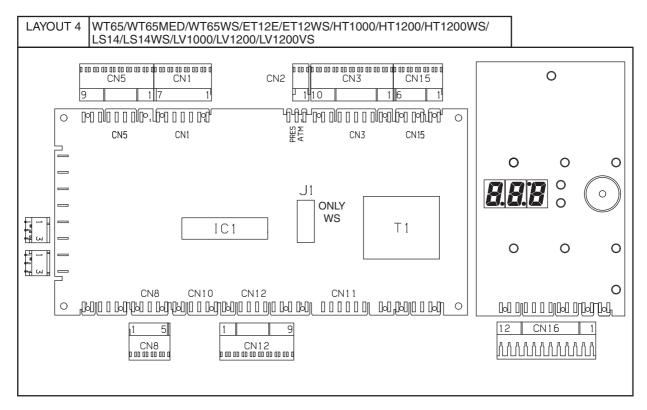
CN2 Pressure/atmospheric dishwasher solenoid valve connection
 CN3 ECOTEMP transformer and detergent/rinse aid dispenser outputs

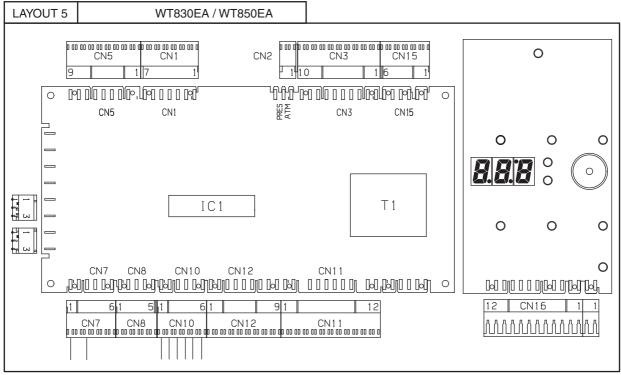
CN5 Tank/boiler temperature sensor inputs

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

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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

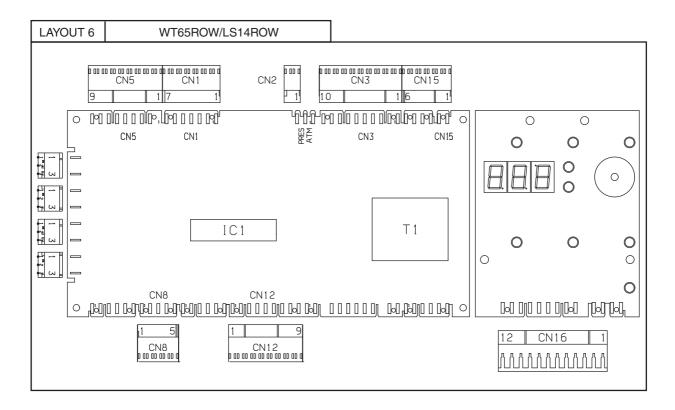
CN10 Safety and upper/lower limit switch input

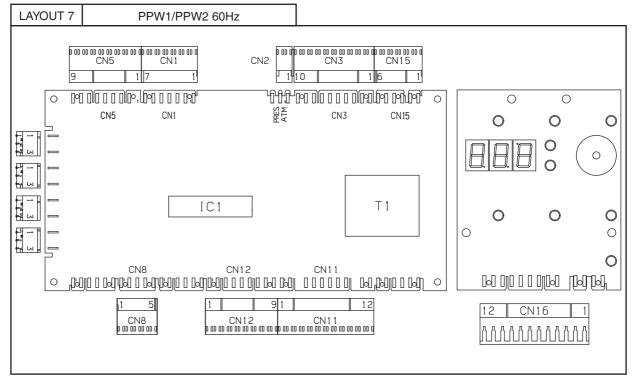
CN11 Hand safety system input - Gear motor current control input - Gear motor polarity inversion connection

CN12 User interface inputs/outputsCN15 Overflow/tank level/board feed input

CN16 User interface inputs/outputs and hood/door sensor input

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CN1 Rinse pump/wash pump/solenoid valve outputs

CN2 Pressure/atmospheric dishwasher solenoid valve connection

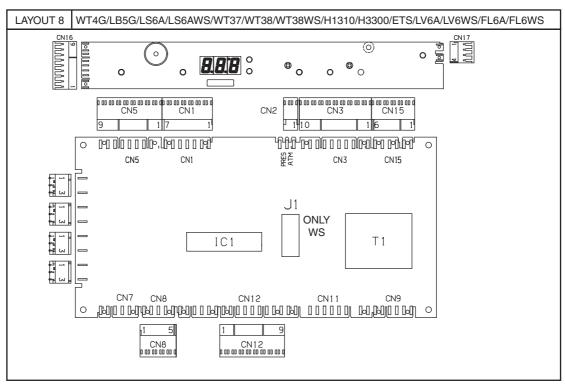
CN3 Detergent/rinse aid dispenser outputsCN5 Tank/boiler temperature sensor inputs

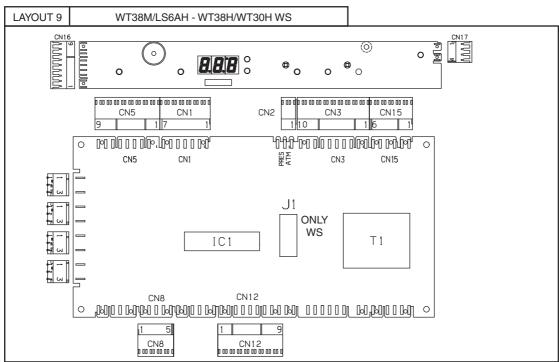
CN8 Energy peak controller input
CN11 Water feed solenoid valve output
CN12 User interface inputs/outputs

CN15 Overflow/tank level/board feed input

CN16 User interface inputs/outputs and hood/door sensor input

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CN1 Rinse pump/wash pump/solenoid valve outputs

CN2 Pressure/atmospheric dishwasher solenoid valve connection
CN3 ECOTEMP transformer and detergent/rinse aid dispenser outputs

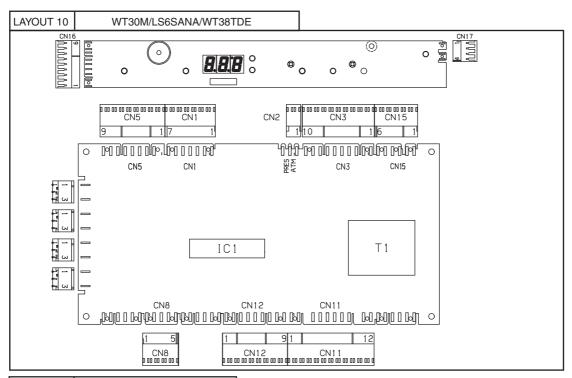
CN5 Tank/boiler temperature sensor inputs

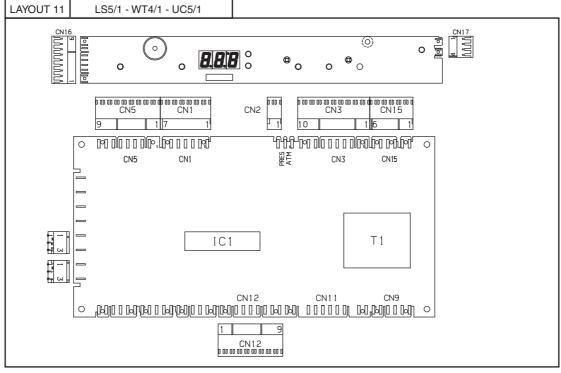
CN8 Energy peak controller input
 CN12 User interface inputs/outputs
 CN15 Overflow/tank level/board feed input

CN16 User interface inputs/outputs and hood/door sensor input

CN17 Door microswitch connection

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CN1 Rinse pump/wash pump/solenoid valve outputs CN₂ Pressure/atmospheric dishwasher solenoid valve connection

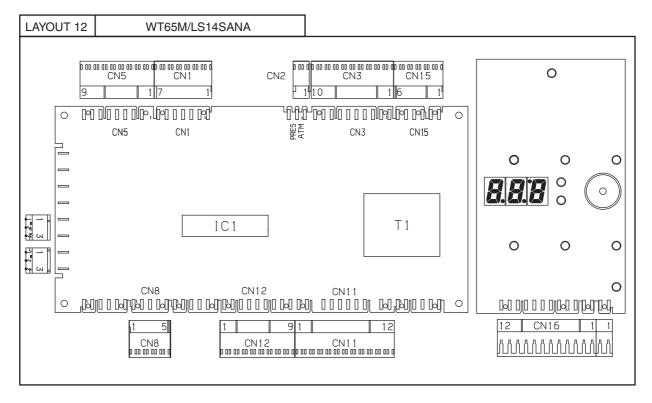
CN3 Detergent/rinse aid dispenser outputs CN₅ Tank/boiler temperature sensor inputs CN8 Energy peak controller input **CN11** Door lock electromagnet output

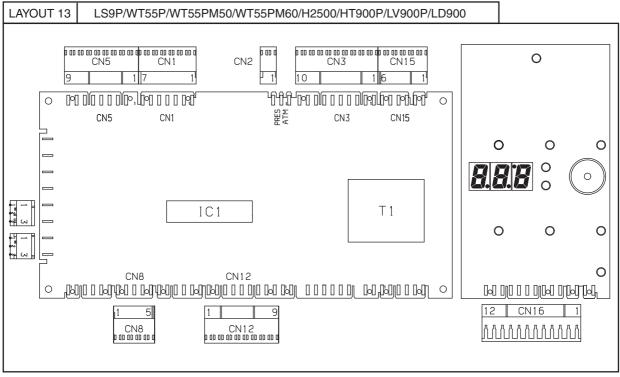
CN12 User interface inputs/outputs **CN15** Overflow/tank level/board feed input

CN16 User interface inputs/outputs and hood/door sensor input

CN17 Door microswitch connector

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CN1 Rinse pump/wash pump/solenoid valve outputs

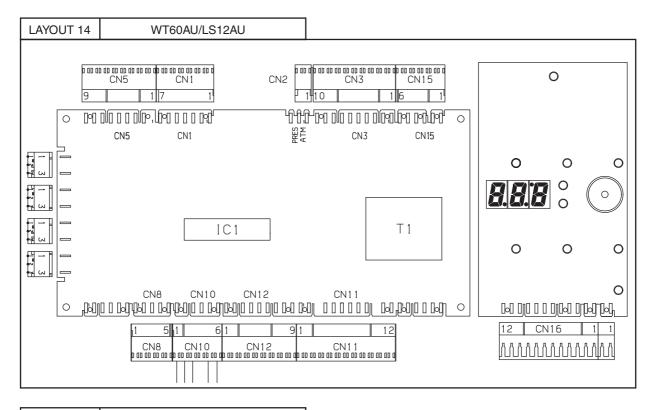
CN2 Pressure/atmospheric dishwasher solenoid valve connection
 CN3 ECOTEMP transformer and detergent/rinse aid dispenser outputs

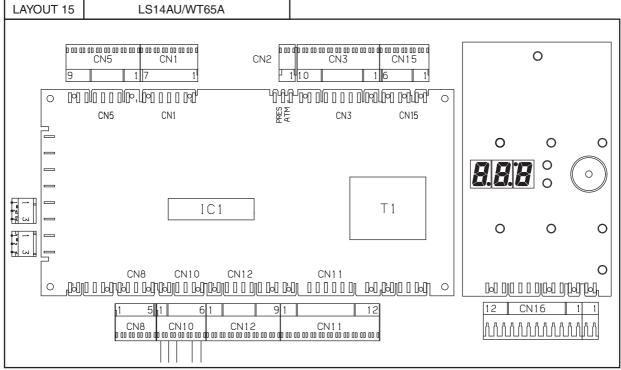
CN5 Tank/boiler temperature sensor inputs

CN8 Energy peak controller input
 CN11 Hood lock electromagnet output
 CN12 User interface inputs/outputs
 CN15 Overflow/tank level/board feed input

CN16 User interface inputs/outputs and hood/door sensor input

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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

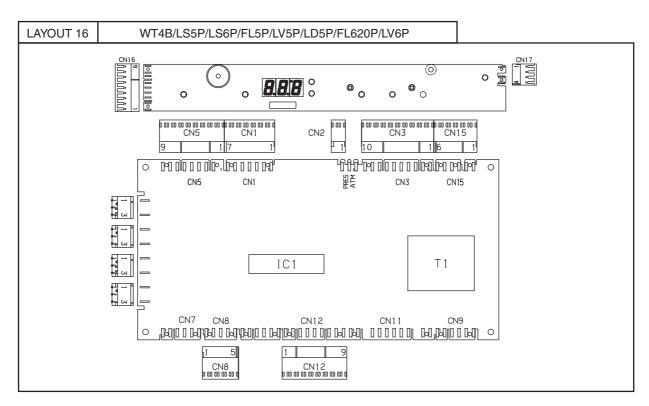
CN10 Safety and upper/lower limit switch input

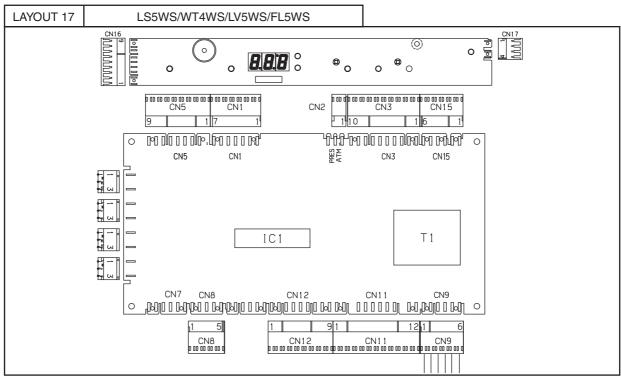
CN11 Hand safety system input - Gear motor current control input - Gear motor polarity inversion connection

CN12 User interface inputs/outputsCN15 Overflow/tank level/board feed input

CN16 User interface inputs/outputs and hood/door sensor input

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CN1 Rinse pump/wash pump/solenoid valve outputs

CN2 Pressure/atmospheric dishwasher solenoid valve connection

CN3 Detergent/rinse aid dispenser outputsCN5 Tank/boiler temperature sensor inputs

CN8 Energy peak controller input

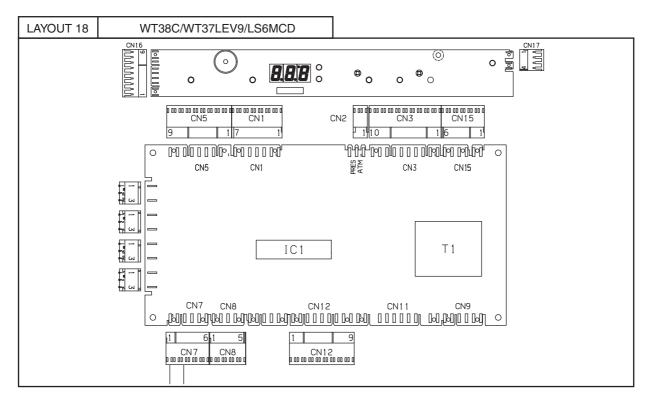
CN9 Salt receptacle drain pump and low pressure solenoid valve outputs

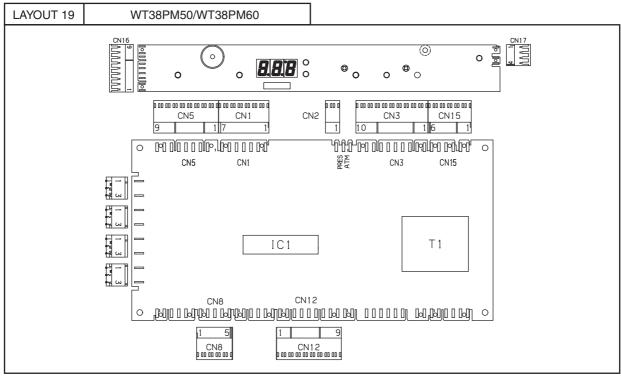
CN11 Brine solenoid valve output
 CN12 User interface inputs/outputs
 CN15 Overflow/tank level/board feed input

CN16 User interface inputs/outputs and hood/door sensor input

CN17 Door microswitch connection

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CN1 Rinse pump/wash pump/solenoid valve outputs

CN2 Pressure/atmospheric dishwasher solenoid valve connection

CN3 Detergent/rinse aid dispenser outputs
CN5 Tank/boiler temperature sensor inputs

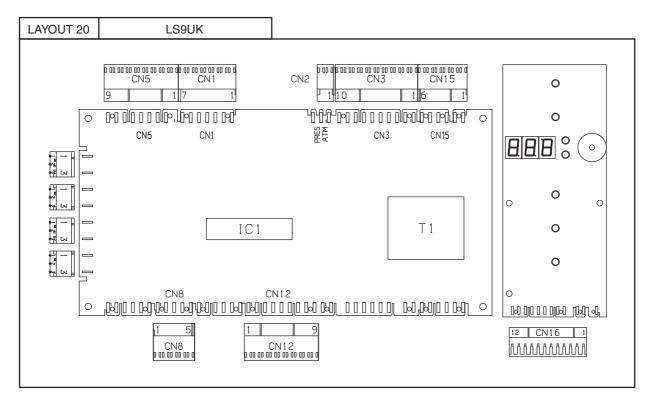
CN7 Detergent/rinse aid level sensors inputCN8 Energy peak controller input

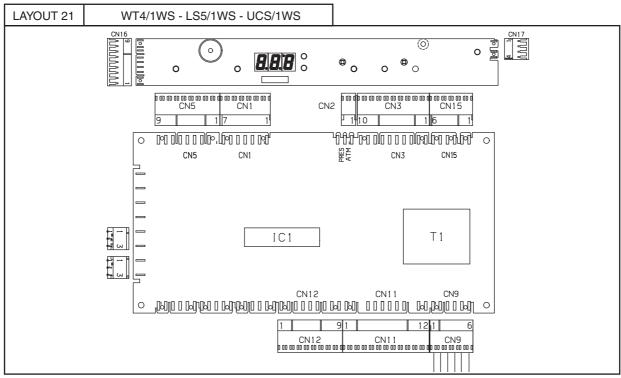
CN12 User interface inputs/outputsCN15 Overflow/tank level/board feed input

CN16 User interface inputs/outputs and hood/door sensor input

CN17 Door microswitch connection

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CN1 Rinse pump/wash pump/solenoid valve outputs

CN2 Pressure/atmospheric dishwasher solenoid valve connection

CN3 Detergent/rinse aid dispenser outputs
CN5 Tank/boiler temperature sensor inputs

CN8 Energy peak controller input

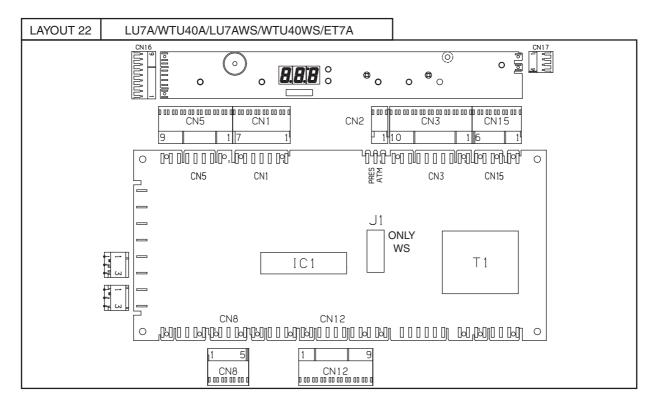
CN9 Salt receptacle drain pump and low pressure solenoid valve outputs

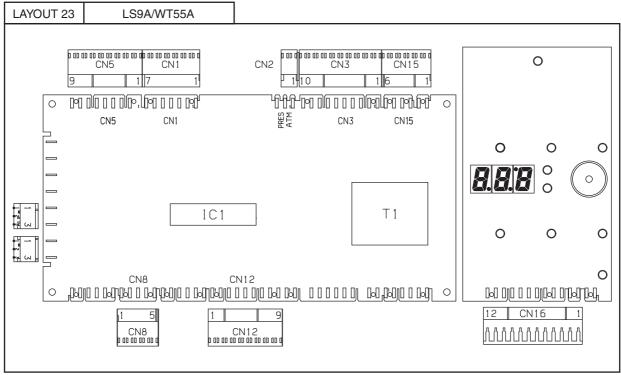
CN11 Brine solenoid valve output
 CN12 User interface inputs/outputs
 CN15 Overflow/tank level/board feed input

CN16 User interface inputs/outputs and hood/door sensor input

CN17 Door microswitch connection

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CN1 Rinse pump/wash pump/solenoid valve outputs

CN2 Pressure/atmospheric dishwasher solenoid valve connection

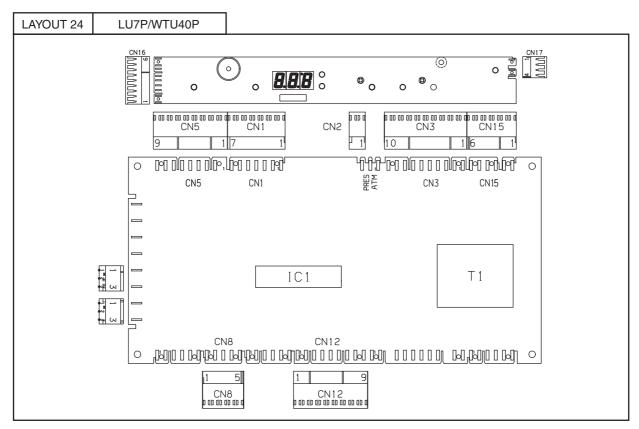
CN3 Detergent/rinse aid dispenser outputs
CN5 Tank/boiler temperature sensor inputs

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

CN17 Door microswitch connection

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CN1 CN2	Rinse pump/wash pump/solenoid valve outputs Pressure/atmospheric dishwasher solenoid valve connection
CN3	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
CN17	Door microswitch connection

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13 ALARM MESSAGES AND TROUBLESHOOTING

13.1 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?

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?
ONLY FOR MACHINES WITH CONTINUOUS WATER SOFTENER:
Does the boiler level sensor located inside the water softener work properly?
Does the float of the boiler level sensor, located inside the water softener, work properly? Is it free to move upwards and downwards and vice versa?
Is the connection from the boiler level sensor to the main board efficient?
ATTENZIONE: 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.
ATTENZIONE: IT MUST BE MANUALLY RESET AFTER ELIMINATING THE CAUSE OF THE MALFUNCTION.
Automatic hood out of order
 See par. 13.1.1 ALARM CODES FOR AUTOMATIC HOOD TYPE DISHWASHERS.

13.1.1 ALARM CODES FOR AUTOMATIC HOOD TYPE DISHWASHERS

When the alarm $\[\mathcal{L} \]$ appears, to facilitate fault-finding another parameter providing a more detailed indication has been introduced.

The parameter is \mathcal{R}_{L} and is found in the \mathcal{L}_{L} family.

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

With pot washers the cause that generated a b 3 type alarm can also be found.

E.g.: With an automatic hood type the alarm **? 3** appears.

Access the parameter \mathcal{R}_{L} in the $\mathbf{d} \mathbf{b} \mathbf{b}$ family.

 $\mathcal{B} = \mathcal{B} \Rightarrow \text{ the top limit switch could be disconnected or interrupted.}$

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	Hood	Pot Washer
	S3: FC_DW (hood CLOSE) S5: FC_UP (hood OPEN)	SA"
AL_ I	Appears with hood closed if the top limit switch (FC_UP) cuts in.	Appears with hood closed, if: - the bottom limit switch (S3) returns to the rest position; - the top limit switch (S5) cuts in; - S3" does not cut in.
AL Z	During lifting, the bottom limit switch (FC_DW) has not returned to the rest position. The limit switch must return to the rest position within a time given by the parameter (): a) check that the motor works.	During the initial lifting phase the bottom limit switch (S3) must return to the rest position within a time given by the parameter \$ \(\frac{1}{2} \) otherwise the alarm \$\(\frac{1}{2} \) appears S3 could be stuck S5' 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
AL _ 3		Appears if during lifting S3" does not return to the rest position within a time 🐇 🚶
ALLY	Appears if the bottom limit switch (FC_DW) cuts in during lifting. (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.

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		Ţ
AL_5	TIMEOUT-The time taken for hood lifting was more than the time fixed by parameter : : a) check that the motor works.	TIMEOUT- IThe 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').
AL_5	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.
AL_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) has not returned to the rest position. The limit switch must return to the rest position within a time given by parameter \$\frac{1}{6}\$: 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 b otherwise the alarm b 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.
AL 3	-	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. (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.
AL_ !!	TIMEOUT- The time taken for hood closing was more than the time fixed by parameter : : a) check that the motor works.	TIMEOUT- The time taken for lowering was more than the time fixed by parameter ₺ ₺ 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 \$\frac{1}{2}\$.

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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 🛂)
AL 14	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".
AL . 20	During lifting, the current absorbed by the lifting motor has exceeded the threshold (see parameter (the h): a) excessive mechanical force during lifting.	
86.21	During lowering, the current absorbed by the lifting motor has exceeded the threshold (see parameter (this)): excessive mechanical force during lowering.	-
AL 22 AL 23 AL 24 AL 25	The hood should be stopped but the card detects a high current absorption by the lifting motor: the relay RL18/RL19 could be stuck; feeder connector CN32 could be disconnected.	-

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13.2 ALARMS THAT DON'T STOP THE DISHWASHER

(SHOWN ON THE USER INTERFACE AT REGULAR INTERVALS)

WARNING:

Alarms marked with the ? symbol from Serial Number $\underline{821}$ have become alarms which do <u>not</u> lock the machine.

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)?
4	5	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 relay stuck? (RL8 - LOAD_EV)

Θ	<u></u>	1	Boiler temperature rise too fast
			Does the boiler level sensor work properly? The boiler could be empty. Are non-original power resistances installed?
Θ		7	Boiler temperature too high
			Has the boiler temperature been changed (- increased above 90°C)?
			Has the software alarm value been modified ()?
			Does the boiler level sensor work properly? Is the boiler relay stuck (see RL2, RL3, RL4)?
Θ		3	Tank temperature too high
			Is the feed water above 60°C?
			Has the software alarm value been modified ()?
			Is the rinse water temperature too high?
			Is the tank relay stuck (RL5 - TUB_HEAT)?
Θ		4	Tank temperature sensor out of order
			Is the temperature sensor broken or disconnected (NT1)? Is the temperature sensor connector correctly inserted?
Θ		5	Tank temperature sensor out of order
			Is the temperature sensor short-circuited (NT1)?

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Θ [Boiler temperature sensor out of order	
		Is the temperature sensor broken or disconnected (NT2)? Is the temperature sensor connector correctly inserted?	
Θ ,	7	Boiler temperature sensor out of order	
		Is the temperature sensor short-circuited (NT2)?	
Θ		Rinse temperature sensor out of order (only on machines with temperature sensor on the rinse circuit)	
		Is the temperature sensor broken or disconnected? Is the temperature sensor connector correctly inserted?	
Θ	[Rinse temperature sensor out of order (only on machines with temperature sensor on the rinse circuit)	
		Is the temperature sensor short-circuited?	

WARNING:

Alarms **£ 2**, **£ 6** and **£ 7** lock the boiler temperature control.

Alarms **£ 3**, **£ 4** and **£ 5** lock the tank temperature control.

In the case of alarms \mathbf{L} \mathbf{b} and \mathbf{L} \mathbf{l} , the boiler waiting phase is not executed (the rinse may be performed with cold water) and, during the initial warm-up and subsequent rinses ($\mathbf{b}\mathbf{L}\mathbf{f}$ > \mathbf{l}), the boiler heating phase is not executed.

In the case of an open probe error (\mathbf{L} \mathbf{H} , \mathbf{L} \mathbf{b} e \mathbf{L} $\mathbf{I}\mathbf{D}$), the displayed temperature is 10°C In the case of a shorted probe error (\mathbf{L} \mathbf{S} , \mathbf{L} \mathbf{T} e \mathbf{L} \mathbf{I}), the displayed temperature is 99°C.

E	1	Communication error
		Is the connection between main board and control panel correct? Are the connectors correctly connected? Are connector contacts clean?
E	5	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?
E	3	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? CAUTION: 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. CAUTION: 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.

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13.3 ALARMS THAT DON'T STOP THE DISHWASHER FOR MODELS WITH INCORPORATED CONTINUOUS WATER SOFTENER

If alarm $F \in \mathcal{C}$ or $F \in \mathcal{C}$ appears, the machine indicates it on the display at regular intervals and auto-configures itself in the same way as a machine without water softener. Resin regeneration cycles are not performed and the column used for filling is always the same (column B).

Alarm $F \subset I$ is reset when the machine is switched off and on from the mains switch (only if the causes that generated it have been eliminated).

Alarm $F \not\in \mathcal{E}$ is reset when the machine is switched off and on from the user interface or from the main switch (only if the causes that generated it have been eliminated).

WARNING:

Alarms marked with the Θ symbol from Serial Number <u>821</u> have become alarms which do not lock the machine.

Θ F Z 1	Water softener operation errors
	This alarm appears in case of malfunctioning in the continuous water softener. To reset error F ? it is necessary to disconnect and reconnect the main power supply to the machine by means of the main switch on the external power board.
Θ F 2 2	Communication errors between the mother board and soft- ener 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(x), another parameter providing a more detailed indication of the possible cause of malfunction has been introduced in the f(x) family (see table below).

To reset error $\mathcal{F}(\mathcal{F})$ it is necessary to disconnect and reconnect the main power supply to the machine by means of the main switch on the external power board.

FZ	1	1	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.
FZ	1	2	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.
FZ	1	3	Resin temperature sensor malfunction
			Replace the water softener electronic board.

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FZ 1 4	Water softener electronic board malfunction
	Replace the water softener electronic board.
F2 9	Salt water filling malfunction
(F2 / 5 up to version 4.01)	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 - the grille on the bottom of the salt container is clogged with dirt.
F2 1 10	-
	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.

14 LIST OF PARAMETERS FOR SUBSEQUENT VERSIONS

The parameters listed below, even if present inside the software, cannot be used in appliances currently in production.

Family & En:

• parameter AL d

• value dEt : 183

Family 54.

Family [FG - alarm F8

• parameter

• para

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