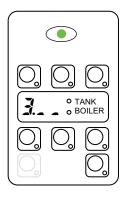


SERVICE MANUAL





CONTENTS:

This document contains the instructions to set electronic board parameters via user interface for following dishwashers:

CODE	MODEL	CODE	MODEL	CODE	MODEL	CODE	MODEL
400041	NUC3DD	502027	EUCAI60	504235	EHTAIAU	506053	ZPPWSSG
400055	EUC1	502028	EUCAIWS	504236	EHTAIMLAU	506054	EPPWELG
400056	EUC1DP	502033	EUCAIG	504237	ZHTAWS	506055	EPPWELG60
400057	EUC1WS	502034	EUCAIWSG	504238	ZHTAID	506056	ZPPWELG
400058	EUC1DPWS	502035	EUCAIML	504239	ZHTAIWS	506057	ZPPWSLG
400059	EUC3	502036	EUCAIMLWS	504240	ZHTAIAU	690028	NUC1G
400060	EUC3WS	502037	EUCAIMLG	504241	ZHTA	698005	NUCA1DDG
400061	EUC3DP	502038	EUCAICL	504242	ZHTA60	698047	OHTAROW
400062	EUC3DPWS	502039	EUCAICLG	504243	ZHTAI	698048	OHTAROW60
400063	EUC1G	502040	EUCAIWL	504244	EHTAIUSPH5	698049	NUCA1DPDDG
400064	EUC1DP60	502042	EUCAICLW	504245	EHTAIUSPH6	698058	NHTDPDDG
400065	EUC3DD	502043	EUCI	505036	EHTAO	698083	APPWELG
400066	ZUCADDROW	502044	EUCIM	505046	EHT	698085	APPWESG
400067	ZUCADDROW6	502045	EUCIM60	505047	EHT60	698086	APPWEHG
400116	FUCA3DD	502046	EUCAIDPNW	505048	EHTAG	698087	ET5AIIT
400120	NUC1DPP	502047	ZUCI	505049	EHTM	698088	ET5AIDP
400127	KUC3	502048	ZUCID	505050	EHTM60	698089	ET5AIDPWS
400128	KUC3DP	502049	ZUCAI	505051	NHT	698091	AUCI
400137	EUCA1DP	502050	ZUCAIDP	505052	NHTD	698092	AUCAI
400138	NUC1GMS	502051	ZUCAIDPWS	505053	NHT60	698093	AUCAIDP
400139	EUC3DPCAG	502052	ZUCAIG	505054	EHTAROW	698094	AUCAIDPWS
400140	NUC1	502053	ZUCAIDDWS	505055	EHTAROW60	698095	AUCAIG
400141	NUC1DP	502054	ZUCAID	505056	ZHTAROW	698096	AUCAIWSG
400142	NUC1WS	502055	ZUCAI60	505057	ZHTAROW60	698097	ET12AI
400143	NUC1WSDP	502056	EUCAIUSPH6	505058	EHTAJ	698098	ET12AIT
400144	NUC3	502057	ZUCAIDD	505059	EHTAJ60	698110	NHTAG
400145	NUC3WS	502058	EUCAIDD	505060	EHTAO60	698115	AHTAWS
400146	NUC3DP	502059	EUCAIDPJ	505061	ZHTAO	698116	AHTAIWS
400147	NUC3DPWS	502060	EUCAIDPJ60	505062	ZHTAO60	698117	AHTAIG
400148	NUC3DDWS	504226	EHTA	505063	KHT	698118	AHTAIWSG
400149	NUC1DP60	504227	EHTA60	505064	NHTM	698119	AHTA
400150	NUC1DPA	504228	EHTAWS	505065	NHTM60	698120	AHTAI
400151	ZUCA1	504229	EHTAI	505082	NHTP	S49JGF	
400152	ZUCA3	504230	EHTAID	506048	EPPWESG	S49LBN	
400153	EUCADDROW	504231	EHTAIWS	506049	EPPWESG60	S49QL1	
400154	EUCADDROW6	504232	EHTAIDWS	506050	EPPWEHG		
502025	EUCAI	504233	EHTAIG	506051	ZPPWESG		
502026	EUCAIDP	504234	EHTAIWSG	506052	ZPPWEHG		

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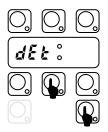
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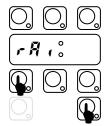
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1 KEYBOARDS

1.1 HOOD TYPE Style





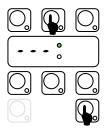


Fig. 1 Detergent dispenser Manual Activation.

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.

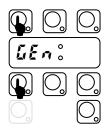
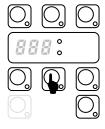
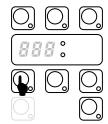




Fig. 4 Enter into General Parameters (Hold down buttons for at least five seconds).

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





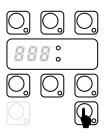


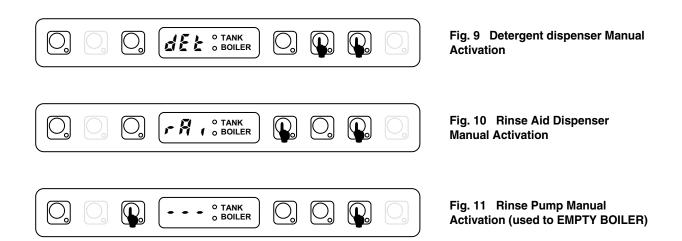
Fig. 6 Next Parameter Family OR Increase Parameter Value(In setting mode only)

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

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

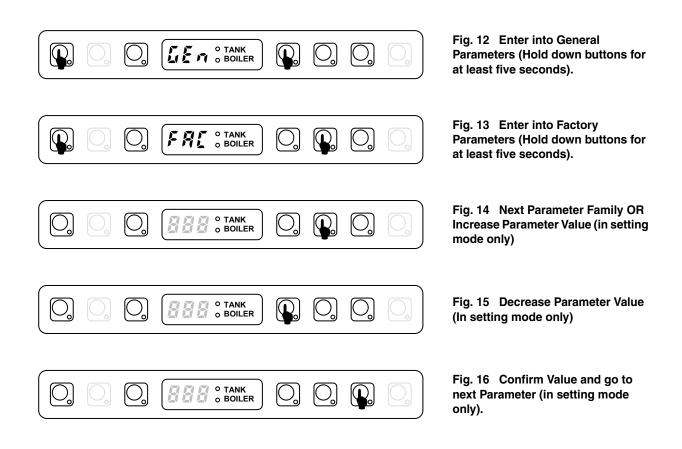
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1.2 UNDERCOUNTER Style



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.

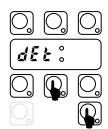


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2 MANUAL ACTIVATION OF DETERGENT AND RINSE AID DISPENSERS

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

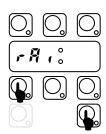
2.1 Detergent Dispenser Activation



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

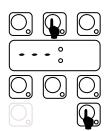


Switch on the dishwasher.

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 **LE** 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 ωξη (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.

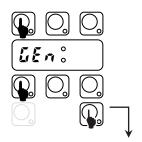
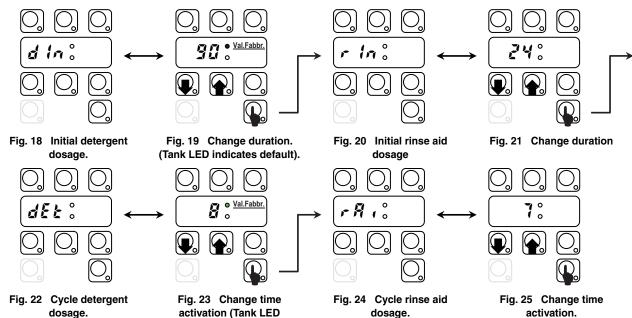


Fig. 17 Enter into User Mode (press for 5 sec)..



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indicates default)



(*) Note for external dispensers:

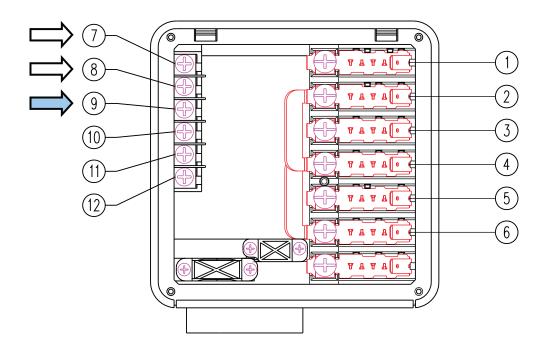
the **detergent dispenser** works when **WASHING PUMP** is being activated; at the same time voltage is supplied between connectors L1₇-L1₉ (main terminal box);

if dEL: 182 the detergent dispenser works when LOADING EV is being activated to re-fill boiler level; at the same time voltage is supplied between connectors 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 **L1**₈–**L1**₉ (main terminal box);

the **rinse aid dispenser** works when **WASHING PUMP** is being activated; at the same time voltage is supplied between connectors **L1**₈–**L1**₉ (main terminal box);

- For electrical connections refer to electric diagram -



Example

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

d in: U 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

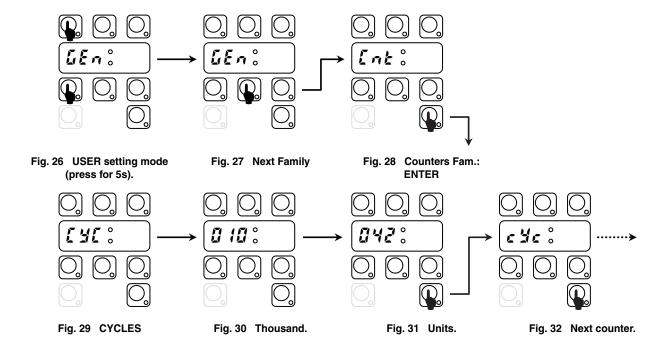
This Parameter Family collects cycle counters and water consumption counters.

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
[4[Cycles performed counter. LYL symbol and two numbers blink consecutively. The cycle number is obtained by joining the two numbers. Ex. LYL iii means 10042 cycles executed.	-			
еУс	Cycle counter (resettable). This counter is similar to but is resettable by user (see parameter below).	-			
nne	Water Consumption (only for dishwashers with incorporated continuous water softener). Counts m ³ of water consumption.	[m ³]			
1	Water Consumption (only for dishwashers with incorporated continuous water softener). Counts litres of water consumption. The total consumption is given by adding **re* [m³] and **[l] values.	[1]			
LıŁ	Water Consumption: resettable counter. [present up to software version 3.12] Counts the litres of water and is resettable by user (see • 5 the parameter below).	[1]			
r 5 E	Reset resettable counters: $\mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} $	-			
n[Y	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 [3] 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 CONTIN- UOUS 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.

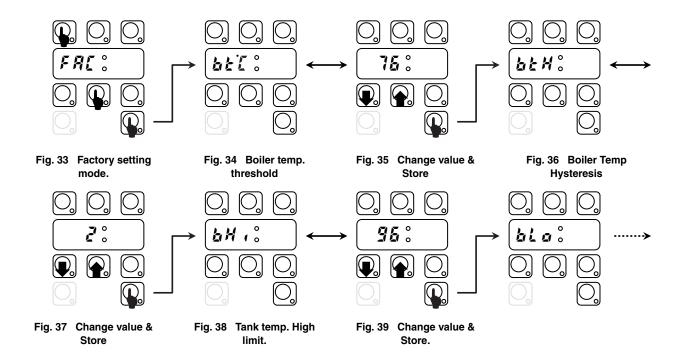
6.1 FRE Factory Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
bel	Boiler Temperature: THRESHOLD.	[°C]	45	95	78
	When boiler temperature reaches this value, heaters switch off.	[0]			
bex	Boiler Temperature HISTERESIS, (represent dead band).	[°C]	2	10	2
	Heater switch on if boiler temperature is below: bt - bt H				
8H ,	Boiler Temperature: HIGH LIMIT.				
	When boiler temperature reaches this value 2 alarm appears.	[°C]	0	98	96
	Put 0 to disable 🕻 🗳 alarm.				
blo	Boiler Temperature: LOW LIMIT.				
	During boiler warm-up, temperature must increase at least 2 2 °C otherwise 3 warning appears.	[°C]	0	10	1
	Put 0 to disable E 3 warning.				
BFL	Boiler Filling Timeout.				
	If filling time is longer than b F L , R l alarm appears.	[min]	0	42	5
	Put 0 to disable 🧗 🧜 alarm.				
bAU	Boiler Temperature Adjust.	[°C]	0	7	4
b P	Boiler Priority (enable boiler wait function)				
	0=disabled	-	0	1	1
65 £	1=enabled Booster Function				
035	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 - bt d	[0 C]	0	20	0
	(Used to save energy during machine inactivity by keeping boiler	[°C]	0		0
	water at a lower temperature).				
EET	Tub Temperature: THRESHOLD	[°C]	40	85	63
EEH	When tank temperature reaches this value, heater switch off. Tub Temperature: HISTERESIS, (represent dead band).				
754	Heater switch on if tank temperature is below: \(\forall \forall \)	[°C]	2	30	5
<u> </u>	Tank Temperature: HIGH LIMIT.				
2 / 1 1	When tank temperature reaches this value \$\mathcal{L}\$ alarm appears.	[°C]	0	95	75
	Put 0 to disable 3 alarm.	[0]	J	55	7.5
tla	Tank Temperature: LOW LIMIT.				
·	During tank warm-up, temperature must increase at least \$\forall \sigma^\circ\$				
	otherwise & warning appears.	[°C]	0	10	1
	Put 0 to disable & & warning.				
ŁFL	Tank Filling Timeout.				
- -	If filling time is longer than $\xi \not\in \xi$, $R = \xi$ alarm appears.	[min]	0	42	20
	Put 0 to disable 4 alarm.		-		-

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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 c** (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).

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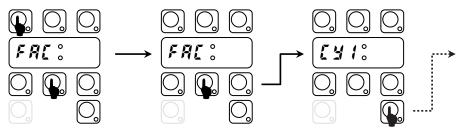


Fig. 40 Factory setting Fig. 41 Next Family Fig. 42 Cycle 1 Family: mode ENTER.

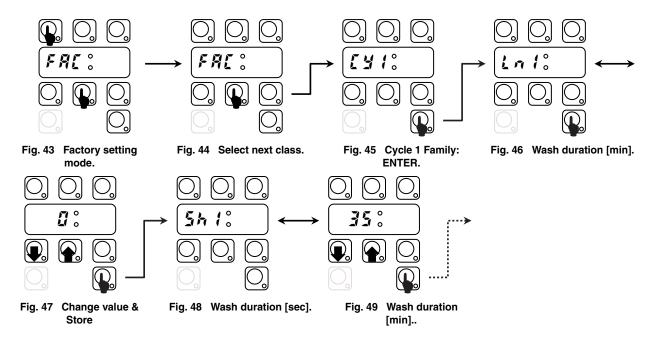
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7 CYCLE SETTING

In 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 $\[\[\] \]$ (Figure 46) and the corresponding value $\[\] \[\] \[\]$
- 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.

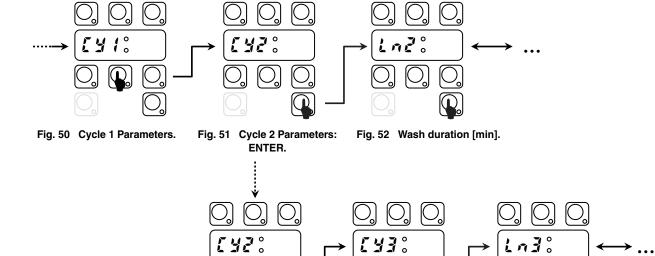


Fig. 53 Cycle 2 Parameters: Fig. 54 next Family

Fig. 54 Cycle 3 Parameters: ENTER

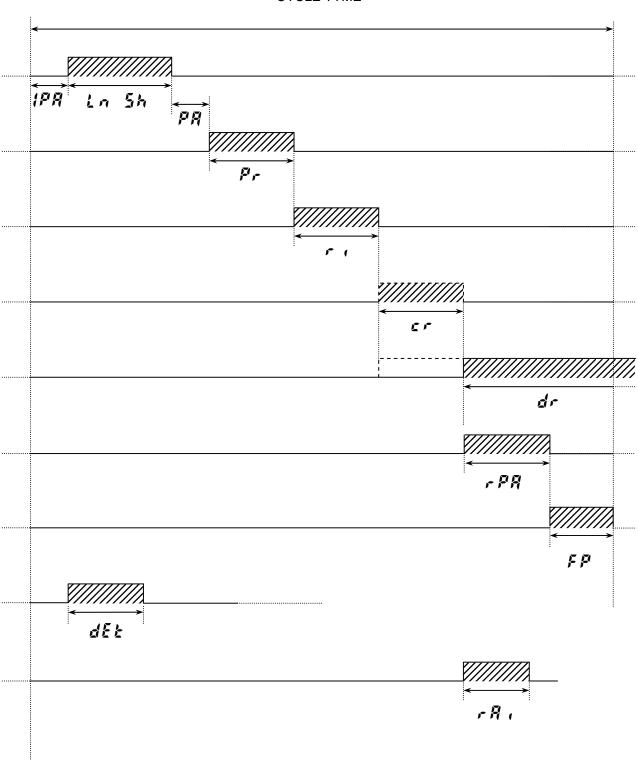
Fig. 55 Wash duration [min].

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7.1 CYCLE DIAGRAM

CYCLE TYME



LEGENDA:

2n 5h = wash

Pr = pre rinse

r = rrinse

፫ r = cold rinse

ರ್ = drain

r PR = rinse pause

FP = final pause

dE = detergent

r = rinse aid

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7.2 [4] Cycle 1 Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
Lai	Wash Phase Long	[min]	0	20	0
5h 1	Wash Phase Short	[s]	1	60	35
PA !	Pause	[s]	0	20	4
Pr 1	Pre-rinse Duration	[s]	0	30	0
r 11	Rinse Phase Duration	[s]	10	45	16
eri	Cold Rinse Phase Duration	[s]	0	50	0
dr l	Drain	[s]	0	40	16
FP	Final Pause at End of Cycle	[s]	0	60	0
441	Long wash time in mode Thermal Label	[min]	0	60	0
£5 1	Short wash time in mode Thermal Label	[s]	0	60	59

7.3 [42 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
PRZ	Pause	[s]	0	20	4
Pre	Pre-rinse Duration	[s]	0	30	0
r 15	Rinse Phase Duration	[s]	10	45	16
6 - 5	Cold Rinse Phase Duration	[s]	0	50	0
dre	Drain	[s]	0	40	16
125	Final Pause at End of Cycle	[s]	0	60	0
416	Long wash time in mode Thermal Label	[min]	0	60	1
£52	Short wash time in mode Thermal Label	[s]	0	60	12

7.4 [43] Cycle 3 Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
End	Wash Phase Long	[min]	0	20	1
5h3	Wash Phase Short	[s]	1	60	40
PAB	Pause	[s]	0	20	4
P - 3	Pre-rinse Duration	[s]	0	30	0
r 13	Rinse Phase Duration	[s]	10	45	16
613	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
£ L 3	Long wash time in mode Thermal Label	[min]	0	60	2
£53	Short wash time in mode Thermal Label	[s]	0	60	12
bt3	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

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7.5 drn Drain/Cleaning Cycle Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
ldr	Initial Drain Phase Duration	[s]	0	240	40
Fdr	Final Drain Phase Duration	[s]	0	240	80
drt	Drain without cleaning cycle	-	0	1	0
[bd	Number of wash cycles possible between one drain cycle and the next	[wash cycles]	0	200	0
dta	Indicates the maximum permissible delay between drain cycle start and the reaching of a tank level below the work level. If the set delay is exceeded, alarm B1 occurs.	[s] x 10	0	100	18

8 OTHER PARAMETERS

8.1 **dPR** Dishwashing Parameters

Sym.	Parameter Description	Unit	Min	Max	Factory Default
(PR	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
- 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
rık	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
ELE	Enable mode Thermal Label: if set to 1 it enables the mode and disables the "endless cycle" button	-	0	1	0
b £L	Boiler temperature in mode Thermal Label.	[°C]	45	97	86
226	Tank temperature in mode Thermal Label.	[°C]	40	90	75
t Ht	Tank temperature hysteresis in mode Thermal Label.	[°C]	0	30	2
HE	Pressure sensor threshold 1 [present up to software version 2.11].	-	0	255	140
185	Pressure sensor histeresis 1 [present up to software version 2.11].	-	0	255	50
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, IHS, ILE, IHS 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.	-	-	-	-
F21	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> -	Serial Device 0 = 8N1 1 = PC connection (DAAS 8E1) 7 = HACCP network (ECAP 8E1+LK485) (LK485 board is necessary) 9 = Dishwashers with incorporated continuous water softener 16 = HACCP printer (8N1) 32 = MODEM GSM (DAAS 8N1) 33 = MODEM GSM (DAAS 8E1) 48 = Hyper Terminal (8N1)	-	0	63	1
Adr	Address. This parameter specifies the address of the appliance into the 'HACCP_network'. Works only if 'HACCP network' is selected (see above parameter).	-	0	255	1
Pra	Print parameter table.	-	0	1	1
66	HACCP 'Basic' (printer) Boiler temperature: high limit.	[°C]	45	95	90
ЬH	HACCP 'Basic' (printer) Boiler temperature: gap below high limit.	[°C]	0	20	10
t t	HACCP 'Basic' (printer) Tank temperature: high limit.	[°C]	35	75	68
ŁH	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
f Ab	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
ba ı	Boiler type: 0 = ATMOSPHERIC BOILER 1 = PRESSURE BOILER 2 = EXTERNAL BOILER	-	0	2	0
daa	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 t F = 75 means that boiler water is heated at 75°C, then follows a rinse phase and so on until tank is full. If b t F = 0 the tank is filled by solenoid valve in the traditional way (On machines with incorporated continuous water softener, even if b t F is set to 0, filling occurs through subsequent rinses).	[°C]	0	85	75
L E S	Detergent Level Switches 0 = level switches not enabled; 1 = enable detergent level switches;	-	0	1	0
ប វ	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	27	9

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Sym.	Parameter Description	Unit	Min	Max	Factory Default
rE	Enable "regeneration cycle" key (only for dishwashers with non-continuous water softener) [See paragraph 9.1 RESIN REGENERATION CYCLE].	-	0	1	0
Alr	ALARMS ENABLE 0 = alarms disabled (to disable also warnings see b a and b a); 1 = alarms enabled; If this function is disabled, faults can be detected so display do not shows any alarm code.	-	0	1	1
AAC	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
5-4	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
bpo	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 Delian Parameters for automatic hood type dishwashers

Sy	/m.	Factor Unit Min Max Defaul				
Ł	1	DELAY_K1 Time (during hood lifting) within which S3" must return to the rest position.	0.1 s	0.0 s.	20.0 s	15
Ł	2	HOOD_TOUT TIMEOUT – max. time allowed for complete hood opening/closing.	0.1 s	0.0 s	20.0 s	200
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	닉	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
R	<u>.</u>	Displays the last alarm code relative to automatic hood type dishwashers.	-	-	-	0
11	t 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 $(\mathcal{L}, \mathcal{F}, \mathcal{L})$) 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 $\xi \circ s$ followed by $t \circ s$, at the end of the next wash cycle the display shows $\xi \circ s$ and $t \circ s$, 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 $3^{\circ}f - 10^{\circ}f / 1.7^{\circ}d - 5.6^{\circ}d / 2.1^{\circ}e - 7^{\circ}e$.

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

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 f^{PR} (in the d^{PR} family). This parameter is common to all 3 wash cycles. The rinse water temperature is displayed during this pause. Another final pause in the cycle can be set by setting the parameters f^{P} , f^{P} , f^{P} , f^{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 (f^{P} , f^{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.

When the detergent inside the tank is finished, the message $d \in \mathcal{E}$ 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.

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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 5Er (in the HLP family) to the value 3.

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 $\mathbf{S} \in \mathcal{U}$ (in the $\mathbf{L} \in \mathcal{U}$ 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 started the first time and whenever the message 5712 End appears on the display and an audible alarm sounds. 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 message $\frac{5}{3}$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$ $\frac{1}{6}$ may appear, for several rinse, tank filling or wash cycles, even after replenishing the salt, as the salt must circulate in the entire system. This, however, does not affect correct dishwasher operation.

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 $ln \notin I$ 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 $3^{\circ}f - 10^{\circ}f / 1.7^{\circ}d - 5.6^{\circ}d / 2.1^{\circ}e - 7^{\circ}e$.

AUTONOMY OF THE FULL SALT CONTAINER ACCORDING TO THE CHANGE IN INLET WATER HARDNESS

Water hardness			The salt container must be filled approximately every (*):	Using cycle 2 for 30 cycles/day, the salt container must be filled approximately every (*):
°f	°d	°е	Cycles	Days
15	8,4	10,5	1168	39
20	11,2	14	837	28
25	14	17,5	589	19
30	16,8	21,1	506	17
35	19,6	24,6	423	14
40	22,4	28,1	341	11

^(*) Considering a rinse time according to the factory settings.

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

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.

Water softener operation can be checked by forcing the regeneration of resins, without waiting for the outlet water hardness to reach the set max. value (5 - 3).

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To do this, wait for the water softener to finish previous resin washing or regeneration operations and set the parameter F = L (L F = L family) to L = L for regenerating column A or to L = L 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 $R_{ab} = 0$ (rear family): if $R_{ab} = 0$ column "A" is used, if $R_{ab} = 0$ column "B" is used.

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

NB: In machines with incorporated continuous water softener, tank filling must be done through subsequent rinses from the boiler and cannot occur by overflow since the filling system does not allow overflow in the tank. Therefore, even if the parameter $b \in \mathcal{F}$ is set to \mathcal{Q} , filling is done by subsequent rinses..

9.5 HOOD-TYPE DISHWASHER WITH CYCLE THERMAL LABEL

WARNING:

Functions present with firmware version 4.04.

If the parameter **£ £ £** (Thermal Label enabled) of the family **dPR** is set to **3**, the "Endless cycle" button has the "endless cycle" function and the "high productivity" mode is non-settable.

If the parameter **£L £** (Thermal Label enabled) of the family **dPR** is set to **1**, the "Endless cycle" button does not have the "endless cycle" function but that of the "high productivity" mode.

This means that the machine can work in 2 modes, "high productivity" and "Thermal Label". When the machine is set in "high productivity" mode, the parameters which define the cycle times and temperature set points are the standard parameters, whereas when the machine is set in "Thermal Label" mode, the parameters are dedicated (they are new parameters listed below).

The mode Thermal Label provides for cycle times, tank hysteresis and tank and boiler temperatures such as to pass the "Thermal Label" test.

Press and hold down the button to switch the machine from "high productivity" mode to "Thermal Label" mode and vice versa.

The "high productivity" button LED is off when the machine is set in "Thermal Label" mode (factory default) and lights up when the button is pressed and the machine is configured in "high productivity" mode. Whenever the machine is shut down, it memorises the mode with which is was switched off and reloads it when switched on the next time.

New parameters:

- £ £ £ (family d^{PR}): if set to f it enables the Thermal Label mode (and disables the "endless cycle" button).
- bt (family dPR): temperature set point for the boiler during the cycles Thermal Label.
- £££ (family d^{PR}): temperature set point for the tank during the cycles Thermal Label.
- $\not\in \mathcal{H} \not\in (\text{family } d^p \mathcal{H})$: hysteresis temperature for the tank during the cycles Thermal Label.
- £1 (family [3]): long wash time for cycle 1 in Thermal Label mode.
- £5 / (family [3]): short wash time for cycle 1 in Thermal Label mode.
- ££2 (family £32): long wash time for cycle 2 in Thermal Label mode.
- £52 (family [32]): short wash time for cycle 2 in Thermal Label mode.
- ££3 (family £33): long wash time for cycle 3 in Thermal Label mode.
- £53 (family [33): short wash time for cycle 3 in Thermal Label mode.

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9.6 DISHWASHERS WITH WASH TANK WATER CHANGE FREQUENCY CONTROL

WARNING:

Function included starting from firmware version 5.00.

If the parameter [bd (Cycles before drain) of the family drn is set to a value higher than [3], a wash tank water change frequency control is enabled. The purpose of this function is to display a message telling the customer when a tank water drain cycle is required. In this way, if the customer does what the machine suggests, washes will be done with sufficiently clean water.

The value set in the parameter $\[\] bd$ (Cycles before drain) indicates the number of wash cycles possible between one tank water drain cycle and the next. When the number of wash cycles done since the last tank water change reaches the value contained in the parameter $\[\] bd$ (Cycles before drain), the display shows the message " $\[\] drain \[\] drain \[\] at the start of a wash cycle and the message "<math>\[\] drain \[\] drain \[\] drain \[\] at the end of the same cycle. When these messages appear on the display at the start and end of the wash cycle, a tank water drain cycle must be done to ensure washes with sufficiently clean water.$

WARNING:

If the tank drain cycle is not done, the machine does not shut down, but will continue to do wash cycles, showing the messages drn and drn End at the start and end of the wash cycle respectively.

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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
NUC3DD	400041	103	16
EUC1	400055	101	11
EUC1DP	400056	101	11
EUC1WS	400057	102	21
EUC1DPWS	400058	102	21
EUC3	400059	103	16
EUC3WS	400060	104	17
EUC3DP	400061	103	16
EUC3DPWS	400062	104	17
EUC1G	400063	105	11
EUC1DP60	400064	101	11
EUC3DD	400065	103	16
ZUCADDROW	400066	134	16
ZUCADDROW6	400067	134	16
FUCA3DD	400116	135	16
NUC1DPP	400120	101	11
KUC3	400127	103	16
KUC3DP	400128	103	16
EUCAIDP	400137	128	11
NUC1GMS	400138	137	11
EUC3DPCAG	400139	138	16
NUC1	400140	101	11
NUC1DP	400141	101	11
NUC1WS	400142	102	21
NUC1WSDP	400143	102	21
NUC3	400144	103	16
NUC3WS	400145	104	17
NUC3DP	400146	103	16
NUC3DPWS	400147	104	17
NUC3DDWS	400148	104	17
NUC1DP60	400149	101	11
NUC1DPA	400150	105	11
ZUCA1	400151	128	11
ZUCA3	400152	128	16
EUCADDROW	400153	134	16
EUCADDROW6	400154	134	16
EUCAI	502025	106	8
EUCAIDP	502026	106	8
EUCAI60	502027	106	8
EUCAIWS	502028	107	8
EUCAIG	502033	106	8
EUCAIWSG	502034	107	8
EUCAIML	502035	108	8
EUCAIMLWS	502036	109	8
EUCAIMLG	502037	110	10
EUCAICL	502038	111	18

MODEL	CODE	Prog.	Layout
EUCAICLG	502039	111	18
EUCAIWL	502040	112	8
EUCAICLW	502042	113	18
EUCI	502043	114	16
EUCIM	502044	115	19
EUCIM60	502045	115	19
EUCAIDPNW	502046	106	8
ZUCI	502047	114	16
ZUCID	502048	114	16
ZUCAI	502049	106	8
ZUCAIDP	502050	106	8
ZUCAIDPWS	502051	107	8
ZUCAIG	502052	106	8
ZUCAIDDWS	502053	107	8
ZUCAID	502054	106	8
ZUCAI60	502055	106	8
EUCAIUSPH6	502056	125	9
ZUCAIDD	502057	106	8
EUCAIDD	502058	106	8
EUCAIDPJ	502059	106	8
EUCAIDPJ60	502060	106	8
EHTA	504226	120	1
EHTA60	504227	120	1
EHTAWS	504228	121	4
EHTAI	504229	120	1
EHTAID	504230	120	4
EHTAIWS	504231	121	4
EHTAIDWS	504232	121	4
EHTAIG	504232	120	4
EHTAIWSG	504234	121	4
EHTAIAU	504235	122	15
EHTAIMLAU	504236	123	4
ZHTAWS	504237	121	4
ZHTAID			-
ZHTAIWS	504238 504239	120 121	4
ZHTAIWS			
ZHTA	504240	122	15 4
ZHTA60	504241 504242	120	4
		120	-
ZHTAILIODUS	504243	120	4
EHTAIUSPH5	504244	126	2
EHTAIUSPH6	504245	126	2
EHTAO	505036	124	23
EHT	505046	118	13
EHT60	505047	118	13
EHTAG	505048	119	23
EHTM	505049	118	13
EHTM60	505050	118	13

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MODEL	CODE	Prog.	Layout
NHT	505051	118	13
NHTD	505052	118	13
NHT60	505053	118	13
EHTAROW	505054	124	23
EHTAROW60	505055	124	23
ZHTAROW	505056	124	23
ZHTAROW60	505057	124	23
EHTAJ	505058	120	23
EHTAJ60	505059	120	23
EHTAO60	505060	124	23
ZHTAO	505061	124	23
ZHTAO60	505062	124	23
KHT	505063	118	13
NHTM	505064	118	13
NHTM60	505065	118	13
NHTP	505082	118	13
EPPWESG	506048	139	4
EPPWESG60	506049	141	4
EPPWEHG	506050	139	4
ZPPWESG	506051	139	4
ZPPWEHG	506052	139	4
ZPPWSSG	506053	139	4
EPPWELG	506054	140	4
EPPWELG60	506055	142	4
ZPPWELG	506056	140	4
ZPPWSLG	506057	140	4
NUC1G	690028	105	11
NUCA1DDG	698005	136	16
OHTAROW	698047	127	23
OHTAROW60	698048	127	23
NUCA1DPDDG	698049	136	16
NHTDPDDG	698058	119	23
APPWELG	698083	140	4
APPWESG	698085	139	4
APPWEHG	698086	139	4
ET5AIIT	698087	131	8
ET5AIDP	698088	132	8
ET5AIDPWS	698089	133	8
AUCI	698091	114	16
AUCAI	698092	116	8
AUCAIDP	698093	116	8
AUCAIDPWS	698094	117	8
AUCAIG	698095	106	8
AUCAIWSG	698096	107	8
ET12AI	698097	129	4
ET12AIT	698098	130	4
NHTAG	698110	119	23
AHTAWS	698115	121	4
AHTAIWS	698116	121	4
AHTAIG	698117	120	4
AHTAIWSG	698118	121	4
AHTA	698119	120	4
AHTAI	698120	120	4
	S49JGF	103	16
	S49LBN	103	16
	•	•	

MODEL	CODE	Prog.	Layout
	S49QL1	103	16

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10.2 PROGRAMMING SHEETS

<u>NU</u> C	1 / E	<u>UC</u>	1 PROG 101
	F and then swit	tch ON th	ne machine.
. [FG		CFG pa	rameter family and set the following parameters:
	E YP	0	Hood Type and undercounter.
	bo ı	1	Pressure boiler.
	doo	2	Front loading function.
	dfl	3	Default values for Undercounter models.
	tre	0	Disabled (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>	24	Select user interface for LS5.
	rE	0	Regeneration cycle disabled.
	Al r	0	Alarms not enabled.
	AAG	0	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	ьРо	50	Boiler heating control.
. Switch Of	F and then swit	tch ON th	ne machine.
	ctory parameter		
FAC			rameter family and set the following parameters.
	PF[82	Boiler Temperature Threshold.
	ЬН	96	Boiler temperature: alarm threshold.
	ьяJ	3	Boiler Temperature Adjust.
	ЬP	1	Boiler standby function enabled.
	65E	2	Booster Function.
	bt d	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[63	Tub Temperature: Threshold.
	£H,	75	Tank temperature: alarm threshold.
	e cycle paramete		
[41	Cycle 1 p		·
	Lai	1	Long Wash Phase [min].
	5h 1	40	Short Wash Phase [s].
	PA I	4	Pause [s].
	rit	15	Rinse Phase Duration [s].
	dr 1	30	Drain [s].
	FP (0	Final Pause [s].
[72	Cycle 2 p	aramete	rs family.
	FuS	2	Long Wash Phase [min].
	5h2	40	Short Wash Phase [s].
	PR2	4	Pause [s].
	2، م	15	Rinse Phase Duration [s].
	dr2	30	Drain [s].
	FP2	0	Final Pause [s].
EY3	Cycle 3 p	aramete	rs family.
	Enl	2	Long Wash Phase [min].
	5h3	48	Short Wash Phase [s].
	PR3	4	Pause [s].
	r 13	15	Rinse Phase Duration [s].
	dr 3	30	Drain [s].
	FP3	0	Final Pause [s].
	E 3d	0	Boiler Temperature Threshold for Cycle 3.

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NUC	1 / E	UC	1 PROG 10
drn	Drain pa	rameters	family.
	ldr	30	Initial Drain Phase Duration [s].
	Fdr	100	Final Drain Phase Duration [s].
	drt	0	Drain and cleaning mode.
	[bd	0	Wash tank water change frequency control disabled.
dPR	Set other	r paramet	ters.
	1PA	0	Initial Pause [s] (for ALL cycles).
	dl y	3	Delay for the 2 nd wash pump [s].
	Pdr	8	Drain Phase Duration at the end of washing phase [s].
	rPA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).
	[F	0	Degrees Celsius display.
	rit	0	During the rinse stage, the display shows the boiler temperature.
HEP	Enter into	o HCP pa	arameter family and set the following parameters.
	5Er	1	Machine arranged for remote connection to PC.
6. Switch OF	F and then swi	itch ON th	ne machine.
<u>GE</u> n	Enter into	o GEn pa	rameter family.
	d in	165	Initial Detergent Dosage.
	r In	8	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.

WARNING:

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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<u>NUC</u>	:1WS	<u>/</u> E	EUC1WS PROG 10
. Switch OF	F and then swit	tch ON the	e machine.
. [FG	Enter into	CFG par	rameter family and set the following parameters:
	ŁУР	0	Hood Type and undercounter.
	bo ı	0	Atmospheric boiler.
	doo	2	Front loading function.
	dFL	3	Default values for Undercounter models.
	tre	0	
			Disabled (for this appliance SOFT START is NOT possible).
	6.t	1	Tank heater works only if boiler temperature reached.
	be F	75	Enable filling tank by means of rinsing cycles.
	LE5	0	Detergent level switches not enabled.
	U 1	24	Select user interface for LS5.
	rE	1	Regeneration cycle enabled.
	Al r	0	Alarms not enabled.
	AAG	8	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
Switch OF	F and then swit		•
	ctory parameter		o maonino.
FAE	, ,		rameter family and set the following parameters.
7 7,6	bt[83	Boiler Temperature Threshold.
	ьн	95	·
		_	Boiler temperature: alarm threshold.
	ьяJ . c	2	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65E	2	Booster Function.
	bt d	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[63	Tub Temperature: Threshold.
	EH 1	75	Tank temperature: alarm threshold.
. Modify the	e cycle paramete	ers:	
[71	Cycle 1 p	arameters	's family.
	Lnl	1	Long Wash Phase [min].
	5h 1	40	Short Wash Phase [s].
	PA 1	4	Pause [s].
	ril	15	Rinse Phase Duration [s].
	dr 1	30	Drain [s].
	67 (FP	_	
F117		0	Final Pause [s].
[75		arameters	
	LnZ	2	Long Wash Phase [min].
	5h2	40	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	16	Rinse Phase Duration [s].
	dr2	30	Drain [s].
	FP2	0	Final Pause [s].
[43		arameters	
= = =	Enl	2	Long Wash Phase [min].
	5h3	40	Short Wash Phase [s].
	PA3	4	
			Pause [s].
	r ı3	15	Rinse Phase Duration [s].
	, -		Dusin (a)
	dr3	30 -	Drain [s].
	dr3 FP3 6Ł3	30 0	Final Pause [s]. Boiler Temperature Threshold for Cycle 3.

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Λ	IUC	1WS	/E	UC1WS PROG 10	2
	drn	Drain para	meters	family.	
		ldr	30	Initial Drain Phase Duration [s].	
		Fdr	100	Final Drain Phase Duration [s].	
		drt	0	Drain and cleaning mode.	
		[bd	8	Wash tank water change frequency control disabled.	
	dPA	Set other p	paramet	ers.	
		1PA	0	Initial Pause [s] (for ALL cycles).	
		dl y	3	Delay for the 2 nd wash pump [s].	
		Pdr	8	Drain Phase Duration at the end of washing phase [s].	
		r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).	
		[F	8	Degrees Celsius display.	
		rit	8	During the rinse stage, the display shows the boiler temperature.	
	HEP	Enter into	НСР ра	rameter family and set the following parameters.	
		5Er	1	Machine arranged for remote connection to PC.	
6.	Switch OFF	and then switc	h ON th	ne machine.	
	GEn	Enter into	GEn pai	rameter family.	
		d In	70	Initial Detergent Dosage.	
		r In	5	Initial Rinse Aid Dosage.	
		dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).	
		rA,	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).	
7.	Switch OFF	and then switc	h ON th	ne machine.	

WARNING:

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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NUC:	3 / K	<u>U</u> C	3 / EUC3	PROG 10 3
	and then swi	tch ON th	e machine.	
. [FG	Enter into	CFG pa	rameter family and set the following parameters:	
	ŁУР	8	Hood Type and undercounter.	
	bo i	1	Pressure boiler.	
	doo	2	Front loading function.	
	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	0	The tank is filled into the traditional way.	
	LE5	0	Detergent level switches not enabled.	
	U 1	24	Select user interface for LS5.	
	rE	0	Regeneration cycle disabled.	
	A) r	0	Alarms not enabled.	
	AAC	0	Boiler electronic level sensor.	
	FrG	0	Resin regeneration cycle forcing.	
	5rU	10	Rinse water max. hardness.	
	6Po	50	Boiler heating control.	
Switch OFF	and then swi			
	tory paramete		e maonine.	
FAE			ameter family and set the following parameters.	
7 716	bt[84 84	Boiler Temperature Threshold.	
	ьн ,	95	Boiler temperature: alarm threshold.	
	6AJ	3	Boiler Temperature Adjust.	
	bP	1		
	65t	Ė	Boiler standby function enabled.	
		2	Booster Function.	Thursday
	btd	3	During stand-by boiler is kept at lower temperature than T	emperature i nresnoia.
	FF[63 25	Tub Temperature: Threshold.	
	EH 1	75	Tank temperature: alarm threshold.	
Modify the o	cycle paramet		a favail.	
L3 (Cycle 1 p			
	Ln I	1	Long Wash Phase [min].	
	5h 1	40	Short Wash Phase [s].	
	PR 1		Pause [s].	
	rit	16	Rinse Phase Duration [s].	
	dr 1	<i>30</i>	Drain [s].	
	FP 1	0	Final Pause [s].	
[75	Cycle 2 p		s family.	
	LnZ	2	Long Wash Phase [min].	
	5h2	40	Short Wash Phase [s].	
	PR2	4	Pause [s].	
	r 12	15	Rinse Phase Duration [s].	
	dr2	30	Drain [s].	
	FP2	0	Final Pause [s].	
EY3				
	Enl	2	Long Wash Phase [min].	
	5h3	40	Short Wash Phase [s].	
	PA3	4	Pause [s].	
	r i3	15	Rinse Phase Duration [s].	
	dr3	30	Drain [s].	
	FP3	0	Final Pause [s].	
	E 3d	0	Boiler Temperature Threshold for Cycle 3.	

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N		3 / K	UC	3 / EUC3 PROG	103		
	drn	Drain parameters family.					
		ldr	30	Initial Drain Phase Duration [s].			
		Fdr	100	Final Drain Phase Duration [s].			
		drt	0	Drain and cleaning mode.			
		[bd]	0	Wash tank water change frequency control disabled.			
	dPA	Set other parameters.					
		1PA	0	Initial Pause [s] (for ALL cycles).			
		dly	3	Delay for the 2 nd wash pump [s].			
		Pdr	8	Drain Phase Duration at the end of washing phase [s].			
		r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).			
		[F	8	Degrees Celsius display.			
		rit	0	During the rinse stage, the display shows the boiler temperature.			
	HEP	Enter into	o HCP pa	rameter family and set the following parameters.			
		5Er	1	Machine arranged for remote connection to PC.			
6.	Switch OFF	and then swi	itch ON th	ne machine.			
	GEn	Enter into	o GEn pa	rameter family.			
		d In	165	Initial Detergent Dosage.			
		r In	8	Initial Rinse Aid Dosage.			
		dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE in activated.			
		r A i	5 1	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.			
7.	Switch OFF	and then swi	itch ON th	ne machine.			

WARNING:

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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NUC	3WS	<u>/</u>	EUC3WS	PROG 104
. Switch OF	F and then swi	itch ON th	e machine.	
. [FG	Enter into	o CFG pa	rameter family and set the following parameters:	
	E YP	0	Hood Type and undercounter.	
	bo i	0	Atmospheric boiler.	
	doo	2	Front loading function.	
	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	8	Detergent level switches not enabled.	
	<i>u 1</i>	24	Select user interface for LS5.	
	rE	1	Regeneration cycle enabled.	
	Al r	0	Alarms not enabled.	
	AAG	0	Boiler electronic level sensor.	
	FrG	0	Resin regeneration cycle forcing.	
	5rU	10	Rinse water max. hardness.	
	bPo	50	Boiler heating control.	
. Switch OF	F and then swi			
	ctory paramete		-	
FRE			ameter family and set the following parameters.	
	bel	83	Boiler Temperature Threshold.	
	ьн ,	96	Boiler temperature: alarm threshold.	
	ьяJ	2	Boiler Temperature Adjust.	
	ЬP	1	Boiler standby function enabled.	
	65E	2	Booster Function.	
	bt d	3	During stand-by boiler is kept at lower temperature that	an Temperature Threshold.
	FF[63	Tub Temperature: Threshold.	
	EH 1	75	Tank temperature: alarm threshold.	
. Modify the	cycle paramet			
[41		parametei	s family.	
	Lal	1	Long Wash Phase [min].	
	5h 1	40	Short Wash Phase [s].	
	PR 1		Pause [s].	
	ril	15	Rinse Phase Duration [s].	
	dr 1	30	Drain [s].	
	FP 1	0	Final Pause [s].	
[45		paramete		
	LnZ	2	Long Wash Phase [min].	
	5h2	40	Short Wash Phase [s].	
	PR2	4	Pause [s].	
	د رج ۱۳۷	15	Rinse Phase Duration [s].	
	dr2	30	Drain [s].	
	FP2	0	Final Pause [s].	
[Y3		paramete		
6.2.3	Ln3	2	Long Wash Phase [min].	
	5h3	40	Short Wash Phase [s].	
	PA3	4		
	r 13	_	Pause [s].	
	r 13 dr 3	16 30	Rinse Phase Duration [s].	
	ac 3	311	Drain [s].	
	FP3	0	Final Pause [s].	

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N	IUC	3WS	/ E	UC3WS	PROG 104	
	drn	Drain pa	rameters t	amily.		
		ldr	30	Initial Drain Phase Duration [s].		
		Fdr	100	Final Drain Phase Duration [s].		
		drt	<i>0</i>	Drain and cleaning mode.		
		[bd	8	Wash tank water change frequency control disabled.		
	dPA	Set other parameters.				
		1PA	8	Initial Pause [s] (for ALL cycles).		
		dl y	3	Delay for the 2 nd wash pump [s].		
		Pdr	0	Drain Phase Duration at the end of washing phase [s].		
		r PA	8	Duration of pause after the rinse cycle [s] (for ALL cycles).		
		[F	8	Degrees Celsius display.		
		rit	0	During the rinse stage, the display shows the boiler tempe	rature.	
	HEP	Enter int	o HCP pa	ameter family and set the following parameters.		
		5Er	1	Machine arranged for remote connection to PC.		
6.	Switch OFF	and then sw	itch ON th	e machine.		
	GEn	Enter int	o GEn par	ameter family.		
		d In	70	Initial Detergent Dosage.		
		r In	5	Initial Rinse Aid Dosage.		
		dEt	8	Detergent dispensing during the wash cycle (loading durin	g wash stage).	
		r A .	4	Rinse aid dispensing during the rinse cycle (loading during	g boiler filling stage).	
7.	Switch OFF	and then sw	itch ON th	e machine.		

WARNING:

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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NU	C1G /	EU	C1G PROG 105
. Switch	OFF and then sw	itch ON th	ne machine.
. <i>[FG</i>	Enter int	o CFG pa	rameter family and set the following parameters:
	ŁУР	0	Hood Type and undercounter.
	boı	1	Pressure boiler.
	doo	2	Front loading function.
	dFL	3	Default values for Undercounter models.
	trc	8	Disabled (for this appliance SOFT START is NOT possible).
	b_t	1	Tank heater works only if boiler temperature reached.
	b ef	8	The tank is filled into the traditional way.
	LE5	8	Detergent level switches not enabled.
	<i>u 1</i>	24	Select user interface for LS5.
	rE	0	Regeneration cycle disabled.
	Al c	0	Alarms not enabled.
	AAG	0	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
Switch	OFF and then sw	itch ON th	•
Modify	Factory paramete	ers:	
FAC	Enter int	o FAC pai	rameter family and set the following parameters.
	btľ	82	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьЯJ	3	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65£	2	Booster Function.
	bŁd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[63	Tub Temperature: Threshold.
	£H,	75	Tank temperature: alarm threshold.
Modify	the cycle parame	ters:	
Ey a		parametei	rs family.
	Lnl	1	Long Wash Phase [min].
	5h 1	40	Short Wash Phase [s].
	PA I	4	Pause [s].
	r.1	15	Rinse Phase Duration [s].
	dr 1	30	Drain [s].
	FP (8	Final Pause [s].
[42	Cycle 2	paramete	
	LnZ	2	Long Wash Phase [min].
	5h2	40	Short Wash Phase [s].
	PA2	4	Pause [s].
	۲ ، ۲	15	Rinse Phase Duration [s].
	dr 2	30	Drain [s].
	FP2	0	Final Pause [s].
[43		parametei	
	Ln3	2	Long Wash Phase [min].
	5h3	40	Short Wash Phase [s].
	PA3	4	Pause [s].
	r 13	15	Rinse Phase Duration [s].
	, 13 dr 3	30	Drain [s].
	FP3	0	Final Pause [s].
	bt 3	0	Boiler Temperature Threshold for Cycle 3.
1	063	u	boller remperature trirestroid for Cycle 3.

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NU	C1G /	EU	C1G PROG 1	05		
dri	Drain pa	rameters	family.			
	ldr	30	Initial Drain Phase Duration [s].			
	Fdr	100	Final Drain Phase Duration [s].			
	drt	<i>0</i>	Drain and cleaning mode.			
	[bd	0	Wash tank water change frequency control disabled.			
dPf	Set other	Set other parameters.				
	1PA	0	Initial Pause [s] (for ALL cycles).			
	dl y	3	Delay for the 2 nd wash pump [s].			
	Pdr	8	Drain Phase Duration at the end of washing phase [s].			
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).			
	[F	8	Degrees Celsius display.			
	rit	8	During the rinse stage, the display shows the boiler temperature.			
HEF	Enter int	Enter into HCP parameter family and set the following parameters.				
	5Er	1	Machine arranged for remote connection to PC.			
6. Switch	OFF and then sw	ritch ON th	ne machine.			
GE	Enter int	to GEn pa	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 .	5 1	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.			
7. Switch	OFF and then sw	ritch ON th	ne machine.			

WARNING:

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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	AI/ A	\U(CAIG / EUCAI PROG 1	106
	and then swit	tch ON th	ne machine.	
[FG	Enter into	CFG pa	rameter family and set the following parameters:	
	E YP	0	Hood Type and undercounter.	
	bo ı	0	Atmospheric boiler.	
	doo	2	Front loading function.	
	dFL	3	Default values for Undercounter models.	
	trc	1	SOFT START enabled.	
	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.	
	U I	9	Select user interface hood type/ undercounter model.	
	rE	0	Regeneration cycle disabled.	
	Al r	1	Alarms enabled.	
	AAG	0	Boiler electronic level sensor.	
	FrG	8	Resin regeneration cycle forcing.	
	SrU	10	Rinse water max. hardness.	
	bPo	50	Boiler heating control.	
Switch OFF	and then swit	tch ON th	ne machine.	
	tory parameter	rs:		
FAE	Enter into	FAC pai	rameter family and set the following parameters.	
	błľ	80	Boiler Temperature Threshold.	
	ьн ,	95	Boiler temperature: alarm threshold.	
	ьяJ	0	Boiler Temperature Adjust.	
	ЬР	1	Boiler standby function enabled.	
	b5Ł	2	Booster Function.	
	bt d	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.	
	FF[63	Tub Temperature: Threshold.	
	EH ,	75	Tank temperature: alarm threshold.	
Modify the	cycle paramet	ers:		
[41	Cycle 1 p	aramete	rs family.	
	Lnl	1	Long Wash Phase [min].	
	5h 1	12	Short Wash Phase [s].	
	PA I	4	Pause [s].	
	ril	12	Rinse Phase Duration [s].	
	dr 1	25	Drain [s].	
	FP I	2	Final Pause [s].	
[75	Cycle 2 p	aramete	rs family.	
	LnZ	1	Long Wash Phase [min].	
	5h2	42	Short Wash Phase [s].	
	PR2	4	Pause [s].	
	r 12	12	Rinse Phase Duration [s].	
	dr2	25	Drain [s].	
	FP2	2	Final Pause [s].	
EY3	Cycle 3 p	aramete	rs family.	
	Enl	3	Long Wash Phase [min].	
	5h3	42	Short Wash Phase [s].	
	PA3	4	Pause [s].	
	r i3	12	Rinse Phase Duration [s].	
	dr 3	25	Drain [s].	
	FP3	2	Final Pause [s].	
	6 ± 3	0	Boiler Temperature Threshold for Cycle 3.	

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ZUC	AI/	VUC	CAIG / EUCAI PROG 106			
drn	Drain parameters family.					
	ldr	30	Initial Drain Phase Duration [s].			
	Fdr	80	Final Drain Phase Duration [s].			
	drt	0	Drain and cleaning mode.			
	[bd	0	Wash tank water change frequency control disabled.			
dPR	Set other parameters.					
	1PA	0	Initial Pause [s] (for ALL cycles).			
	dly	3	Delay for the 2 nd wash pump [s].			
	Pdr Drain Phase Duration at the end of washing phase [s].					
	rPA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).			
	[F	0	Degrees Celsius display.			
	rit	0	During the rinse stage, the display shows the boiler temperature.			
	ELE	0	Termal Label mode disabled (Functions present with firmware version 4.04).			
HEP	Enter into HCP parameter family and set the following parameters.					
	5Er	1	Machine arranged for remote connection to PC.			
6. Switch OFF	and then swi	itch ON th	ue machine.			
ũE ∩	Enter into	o GEn pa	rameter family.			
	d In	50	Initial Detergent Dosage.			
	r In	10	Initial Rinse Aid Dosage.			
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).			
	rA,	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).			
7. Switch OFF	and then swi	itch ON th	ne machine.			

WARNING:

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the l^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the l^{FL} family are not modified.

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ZUCA	41/	NUC	CAI / EUCAI WS PROG 107
	and then swit		
[F G	Enter into	CFG pa	arameter family and set the following parameters:
	ŁУР	0	Hood Type and undercounter.
	bo i	8	Atmospheric boiler.
	doo	2	Front loading function.
	dFL	3	Default values for Undercounter models.
	tre	1	SOFT START enabled.
	b_t	1	Tank heater works only if boiler temperature reached.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LE5	8	Detergent level switches not enabled.
	<i>U 1</i>	9	Select user interface hood type/ undercounter model.
	rE	8	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAG	1	Boiler float level sensor.
	FrG	8	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	ЬPo	50	Boiler heating control.
Switch OFF	and then swit	tch ON th	
Modify Factor	ory parameter	rs:	
FRE			rameter family and set the following parameters.
	PFI	80	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяJ	0	Boiler Temperature Adjust.
	ЬP	1	Boiler standby function enabled.
	b5Ł	2	Booster Function.
	bŁd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[63	Tub Temperature: Threshold.
	ŁH ,	75	Tank temperature: alarm threshold.
Modify the c	cycle paramete	ers:	
[41	Cycle 1 p	arameter	rs family.
	Lnl	1	Long Wash Phase [min].
	5h 1	12	Short Wash Phase [s].
	PA I	4	Pause [s].
	ril	12	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
	FP (2	Final Pause [s].
[75	Cycle 2 p	arameter	rs family.
	LnZ	1	Long Wash Phase [min].
	5h2	42	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	12	Rinse Phase Duration [s].
	dr2	25	Drain [s].
	FP2	2	Final Pause [s].
EY3	Cycle 3 p	arameter	ers family.
	Enl	3	Long Wash Phase [min].
	5h3	42	Short Wash Phase [s].
	PA3	4	Pause [s].
	r 13	12	Rinse Phase Duration [s].
	dr 3	25	Drain [s].
	FP3	2	Final Pause [s].
	bt 3	0	Boiler Temperature Threshold for Cycle 3.

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UC	AI/A	UC	CAI / EUCAI WS PROG 10			
drn	Drain parameters family.					
	ldr	30	Initial Drain Phase Duration [s].			
	Fdr	80	Final Drain Phase Duration [s].			
	drt	<i>8</i>	Drain and cleaning mode.			
	[bd	0	Wash tank water change frequency control disabled.			
dPA	Set other	paramete	ers.			
	1PA	0	Initial Pause [s] (for ALL cycles).			
	dl y	3	Delay for the 2 nd wash pump [s].			
	Pdr	8	Drain Phase Duration at the end of washing phase [s].			
	rPA	8	Duration of pause after the rinse cycle [s] (for ALL cycles).			
	[F	0	Degrees Celsius display.			
	rit	0	During the rinse stage, the display shows the boiler temperature.			
HEP	Enter into HCP parameter family and set the following parameters.					
	5Er	9	Dishwasher with incorporated continuous water softener.			
Switch OFF	F and then switch ON the machine.					
GEn	Enter into	GEn par	rameter family.			
	d In	50	Initial Detergent Dosage.			
	r In	10	Initial Rinse Aid Dosage.			
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).			
	rA,	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).			

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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EUC	AIML		PROG 108
	and then swit		
[FG			rameter family and set the following parameters:
	FAL	0	Hood Type and undercounter.
	bo 1	0	Atmospheric boiler.
	doo	2	Front loading function.
	dfl	3	Default values for Undercounter models.
	trc	1	SOFT START enabled.
	b_t	1	Tank heater works only if boiler temperature reached.
	6 t F	75	Enable filling tank by means of rinsing cycles.
	LE5	0	Detergent level switches not enabled.
	U 1	8	ACTIVE function disabled.
	rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	ARG	8	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
	and then swit		e machine.
	tory parameter		
FAC			rameter family and set the following parameters.
	PFI	90	Boiler Temperature Threshold.
	ЬН	8	Disable boiler high Temperature alarm (?).
	ьяJ	0	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65£	8	Booster Function.
	bŁd	10	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[65	Tub Temperature: Threshold.
	FH 1	85	Tank temperature: alarm threshold.
-	cycle paramet	ers:	
[41	Cycle 1 p	arameter	rs family.
	Lnl	4	Long Wash Phase [min].
	5h 1	10	Short Wash Phase [s].
	PR I	4	Pause [s].
	ril	35	Rinse Phase Duration [s].
	dr 1	40	Drain [s].
	FP (15	Final Pause [s].
[75	Cycle 2 p		
	LnZ	5	Long Wash Phase [min].
	5h2	10	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	35	Rinse Phase Duration [s].
	dr2	40	Drain [s].
	FP2	15	Final Pause [s].
EY3	Cycle 3 p	arameter	rs family.
	Enj	9	Long Wash Phase [min].
	5h3	10	Short Wash Phase [s].
	PR3	4	Pause [s].
	r 13	35	Rinse Phase Duration [s].
	dr3	40	Drain [s].
1	FP3	15	Final Pause [s].

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Е	UC	AIML	_	PROG 108		
	drn	Drain parameters family.				
		ldr		Initial Drain Phase Duration [s].		
		Fdr	80	Final Drain Phase Duration [s].		
		drt	0	Drain and cleaning mode.		
		[bd	0	Wash tank water change frequency control disabled.		
	dPA	Set other parameters.				
		1PA	0	Initial Pause [s] (for ALL cycles).		
		dl y	3	Delay for the 2 nd wash pump [s].		
		Pdr	8	Drain Phase Duration at the end of washing phase [s].		
		r PA	8	Duration of pause after the rinse cycle [s] (for ALL cycles).		
		[F	8	Degrees Celsius display.		
		rit	8	During the rinse stage, the display shows the boiler temperature.		
	HEP	Enter into HCP parameter family and set the following parameters.				
		5Er	1	Machine arranged for remote connection to PC.		
6.	Switch OFF	F and then switch ON the machine.				
	GEn	Enter into GEn parameter family.				
		d In	50	Initial Detergent Dosage.		
		r In	10	Initial Rinse Aid Dosage.		
		dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).		
		rAi	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		
7.	Switch OFF	and then swi	tch ON th	e machine.		

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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EUC	4 I IVI L	_VV \	S PROG 109
Switch OFF	and then swi	tch ON th	ne machine.
. [FG	Enter into	o CFG pa	rameter family and set the following parameters:
	ŁУР	8	Hood Type and undercounter.
	bo i	0	Atmospheric boiler.
	doo	2	Front loading function.
	dFL	3	Default values for Undercounter models.
	trc	1	SOFT START enabled.
	b_t	1	Tank heater works only if boiler temperature reached.
	ЬŁF	75	Enable filling tank by means of rinsing cycles.
	LE5	<i>0</i>	Detergent level switches not enabled.
	<i>U 1</i>	8	ACTIVE function disabled.
	rE	8	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	ARG	1	Boiler float level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
Switch OFF	and then swi	tch ON th	
	ory paramete		
FA[Enter into	o FAC par	rameter family and set the following parameters.
	PFI	90	Boiler Temperature Threshold.
	ьн ,	8	Disable boiler high Temperature alarm (£ ?).
	ьял	0	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	b5Ł	0	Booster Function.
	bŁd	10	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[65	Tub Temperature: Threshold.
	EH ,	85	Tank temperature: alarm threshold.
Modify the	cycle paramet	ers:	
[41	Cycle 1 p	oarameter	rs family.
	Lnl	4	Long Wash Phase [min].
	5h 1	10	Short Wash Phase [s].
	PR 1	4	Pause [s].
	ril	35	Rinse Phase Duration [s].
	dr 1	40	Drain [s].
	FP !	15	Final Pause [s].
[72	Cycle 2 p	oarameter	rs family.
	LnZ	6	Long Wash Phase [min].
	5h2	10	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	35	Rinse Phase Duration [s].
	dr2	40	Drain [s].
	FP2	15	Final Pause [s].
EY3	Cycle 3 p	oarameter	rs family.
	Enl	9	Long Wash Phase [min].
	5h3	10	Short Wash Phase [s].
	PA3	4	Pause [s].
	r 13	35	Rinse Phase Duration [s].
	dr3	40	Drain [s].
	FP3	15	Final Pause [s].
	6 ± 3	0	Boiler Temperature Threshold for Cycle 3.

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Drain parameters family. 1dr 30 Initial Drain Phase Duration [s]. Fdr 80 Final Drain Phase Duration [s]. drt 0 Drain and cleaning mode. [bd 0 Wash tank water change frequency comparison of the comparison of	ontrol disabled.				
Fdr 80 Final Drain Phase Duration [s]. drt 0 Drain and cleaning mode. Lbd 0 Wash tank water change frequency c	ontrol disabled.				
drt	ontrol disabled.				
[bd] Wash tank water change frequency c	ontrol disabled.				
	ontrol disabled.				
dPR Set other parameters.					
IPA Initial Pause [s] (for ALL cycles).					
dLY 3 Delay for the 2 nd wash pump [s].					
Pdr Drain Phase Duration at the end of w	ashing phase [s].				
PR Duration of pause after the rinse cycle	e [s] (for ALL cycles).				
[F [] Degrees Celsius display.					
During the rinse stage, the display sh	ows the boiler temperature.				
HEP Enter into HCP parameter family and set the following pa	Enter into HCP parameter family and set the following parameters.				
5 F Dishwasher with incorporated continu	uous water softener.				
6. Switch OFF and then switch ON the machine.					
EEn Enter into GEn parameter family.					
d in 50 Initial Detergent Dosage.					
r In III Initial Rinse Aid Dosage.					
dEt B Detergent dispensing during the wast	n cycle (loading during wash stage).				
Rinse aid dispensing during the rinse	cycle (loading during boiler filling stage).				

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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_	en switch ON th	ne machine.
	or into CEG no	
F 7	ei iiito oi a pa	arameter family and set the following parameters:
	Р 3	Medical line dishwasher with lock door/hood device.
bo	. 0	Atmospheric boiler.
do	o 2	Front loading function.
dF	L 3	Default values for Undercounter models.
tr	c 1	SOFT START enabled.
b.	t 1	Tank heater works only if boiler temperature reached.
bŁ	F 75	Enable filling tank by means of rinsing cycles.
LE	5 0	Detergent level switches not enabled.
U i	8	ACTIVE function disabled.
rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
A:	r 1	Alarms enabled.
AA	G 0	Boiler electronic level sensor.
Fr	G 0	Resin regeneration cycle forcing.
5-	ប 10	Rinse water max. hardness.
6 <i>P</i>	o 50	Boiler heating control.
h OFF and the	en switch ON th	ne machine.
_		
		rameter family and set the following parameters.
		Boiler Temperature Threshold.
	·	Disable boiler high Temperature alarm (£ 2).
_		Boiler Temperature Adjust.
	_	Boiler standby function enabled.
		Booster Function.
		During stand-by boiler is kept at lower temperature than Temperature Threshold.
		Tub Temperature: Threshold.
		Tank temperature: alarm threshold.
		Const.
		Long Wash Phase [min].
		Short Wash Phase [s].
		Pause [s].
		Rinse Phase Duration [s].
_		Drain [s].
		Final Pause [s].
		•
		Long Wash Phase [min].
		Short Wash Phase [s].
		Pause [s].
		Rinse Phase Duration [s].
		Drain [s].
_		Final Pause [s].
		Long Wash Phase [min].
		Short Wash Phase [s].
		Pause [s].
		Rinse Phase Duration [s].
		Drain [s].
		Final Pause [s]. Boiler Temperature Threshold for Cycle 3.
	LE UI rE RI RR Fr Sr bP n OFF and the y Factory para E Lh bR bF bS bL LH y the cycle para I Cyc Sh PR rr dr FP Cyc Sh PR rr dr FP	LES 0 U1 8 rE 0 RI r 1 RRG 0 FrG 0 SrU 10 bPo 50 h OFF and then switch ON the processor of

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E	UC	AIML	_G	PROG 110		
	drn	Drain parameters family.				
		ldr	30	Initial Drain Phase Duration [s].		
		Fdr	80	Final Drain Phase Duration [s].		
		drt	0	Drain and cleaning mode.		
		[bd]	0	Wash tank water change frequency control disabled.		
	dPA	Set other parameters.				
		1PA	0	Initial Pause [s] (for ALL cycles).		
		dl y	3	Delay for the 2 nd wash pump [s].		
		Pdr	8	Drain Phase Duration at the end of washing phase [s].		
		r P A	45	Duration of pause after the rinse cycle [s] (for ALL cycles).		
		[F	8	Degrees Celsius display.		
		rit	8	During the rinse stage, the display shows the boiler temperature.		
	HEP	Enter into HCP parameter family and set the following parameters.				
		5Er	1	Machine arranged for remote connection to PC.		
6.	Switch OFF	and then switch ON the machine.				
	<u>GE</u> n	Enter into GEn parameter family.				
		d In	50	Initial Detergent Dosage.		
		r In	10	Initial Rinse Aid Dosage.		
		dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).		
		rA .	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		
7.	Switch OFF	and then swi	itch ON th	ne machine.		

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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	UCA	NICL	•	PROG 11
S	Switch OFF a			
2.	[FG	Enter into	o CFG pa	rameter family and set the following parameters:
		Ł YP	0	Hood Type and undercounter.
		bo 1	0	Atmospheric boiler.
		doo	2	Front loading function.
		dFL	3	Default values for Undercounter models.
		tre	1	SOFT START enabled.
		b_t	1	Tank heater works only if boiler temperature reached.
		bł F	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/ undercounter model.
		r E	8	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
		Al r	1	Alarms enabled.
		AAG	0	Boiler electronic level sensor.
		FrG	0	Resin regeneration cycle forcing.
		5rU	10	Rinse water max. hardness.
		bPo	50	Boiler heating control.
	Switch OFF a			e machine.
	Modify Facto			
-	FAE			ameter family and set the following parameters.
		PFI	80	Boiler Temperature Threshold.
		ьн ,	96	Boiler temperature: alarm threshold.
		ьял	0	Boiler Temperature Adjust.
		Ь <i>Р</i>	1	Boiler standby function enabled.
		65E	2	Booster Function.
		bt d	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		££[63	Tub Temperature: Threshold.
		EH 1	75	Tank temperature: alarm threshold.
	Nodify the cy			io famili.
	L 3 (Cycle 1 p	Jarameter 1	Long Wash Phase [min].
		5h 1	12	Short Wash Phase [s].
		PA I	15	
			•	Pause [s].
		ril		Pince Phase Duration [c]
			12 25	Rinse Phase Duration [s].
		dr 1	25	Drain [s].
	[42	dr 1 FP 1	25 2	Drain [s]. Final Pause [s].
	[Y Z	dr 1 FP 1 Cycle 2 p	25 2 parameter	Drain [s]. Final Pause [s]. s family.
	<u> </u>	dr 1 FP 1 Cycle 2 p	25 2 parameter	Drain [s]. Final Pause [s]. s family. Long Wash Phase [min].
	[42	dr I FP I Cycle 2 p Ln2 Sh2	25 2 parameter 1 42	Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s].
	[35	dr 1 FP 1 Cycle 2 p LnZ ShZ PRZ	25 2 parameter 1 42 4	Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s].
	CAS	dr I FP I Cycle 2 p LnZ ShZ PRZ r IZ	arameter 1 42 4 12	Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s].
	<u> </u>	dr I FP I Cycle 2 p LnZ ShZ PAZ r iZ drZ	25 2 parameter 1 42 4 12 25	Drain [s]. Final Pause [s]. Is family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s].
		dr I FP I Cycle 2 p Ln2 Sh2 PR2 r i2 dr2 FP2	25 2 parameter 1 42 4 12 25 2	Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s].
	[A3	dr I FP I Cycle 2 p Ln2 Sh2 PR2 r i2 dr 2 FP2 Cycle 3 p	arameter 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s].
		dr I FP I Cycle 2 p Ln2 Sh2 PA2 r i2 dr2 FP2 Cycle 3 p	arameter 25 27 28 27 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	Drain [s]. Final Pause [s]. Is family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. Is family. Long Wash Phase [min].
		dr I FP I Cycle 2 p Ln2 Sh2 PR2 r i2 dr2 FP2 Cycle 3 p Ln3 Sh3	arameter 1 42 4 12 25 2 parameter 3	Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s].
		dr I FP I Cycle 2 p Ln2 Sh2 PR2 r i2 dr2 FP2 Cycle 3 p Ln3 Sh3 PR3	arameter 1 42 4 12 25 2 carameter 3 42	Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s].
		dr I FP I Cycle 2 p Ln2 Sh2 PR2 r 12 dr2 FP2 Cycle 3 p Ln3 Sh3 PR3 r 13	arameter 1 42 4 12 25 2 parameter 3 42 41 12	Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s].
		dr I FP I Cycle 2 p Ln2 Sh2 PR2 r i2 dr2 FP2 Cycle 3 p Ln3 Sh3 PR3	arameter 1 42 4 12 25 2 carameter 3 42	Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. s family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s].

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EUC	AICL	_	PROG 111		
drn	Drain parameters family.				
	ldr	30	Initial Drain Phase Duration [s].		
	Fdr	80	Final Drain Phase Duration [s].		
	drt	0	Drain and cleaning mode.		
	[bd	0	Wash tank water change frequency control disabled.		
dPA	Set other parameters.				
	1PA	0	Initial Pause [s] (for ALL cycles).		
	dl y	3	Delay for the 2 nd wash pump [s].		
	Pdr	8	Drain Phase Duration at the end of washing phase [s].		
	r PA	8	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[F	8	Degrees Celsius display.		
	rit	8	During the rinse stage, the display shows the boiler temperature.		
HEP	Enter into HCP parameter family and set the following parameters.				
	5Er	1	Machine arranged for remote connection to PC.		
S. Switch OFF	and then switch ON the machine.				
GEn	Enter into	o GEn pa	rameter family.		
	d In	50	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).		
	rA .	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		
7. Switch OFF	dEt	5 4	Detergent dispensing during the wash cycle (loading during wash stage). Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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EUC	AIWI		PROG 112
I. Switch OF	F and then swi	tch ON th	ne machine.
2. [FG	Enter into	o CFG pa	rameter family and set the following parameters:
	F A B	0	Hood Type and undercounter.
	bo 1	8	Atmospheric boiler.
	doo	2	Front loading function.
	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.
	U 1	9	Select user interface hood type/ undercounter model.
	rE	8	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	ARG	8	Boiler electronic level sensor.
	FrG	8	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	ьРо	50	Boiler heating control.
3. Switch OF	F and then swi	tch ON th	ne machine.
1. Modify Fac	tory paramete	rs:	
FAC	Enter into	o FAC pa	rameter family and set the following parameters.
	PF[80	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяJ	8	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	b5t	2	Booster Function.
	bŁd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[55	Tub Temperature: Threshold.
	FH ,	75	Tank temperature: alarm threshold.
5. Modify the	cycle paramet	ers:	
[41	Cycle 1 p	paramete	rs family.
	Lnl	1	Long Wash Phase [min].
	5h 1	12	Short Wash Phase [s].
	PR I	4	Pause [s].
	ril	12	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
	FP 1	2	Final Pause [s].
[75	Cycle 2 p	oaramete	rs family.
	LnZ	1	Long Wash Phase [min].
	5h2	35	Short Wash Phase [s].
	PA2	4	Pause [s].
	r 12	12	Rinse Phase Duration [s].
	dr2	25	Drain [s].
	FP2	2	Final Pause [s].
[43	Cycle 3 p	aramete	rs family.
	Enl	2	Long Wash Phase [min].
	5h3	35	Short Wash Phase [s].
	PR3	4	Pause [s].
	r 13	12	Rinse Phase Duration [s].
	dr 3	25	Drain [s].
	FP3	2	Final Pause [s].

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E	EUC	AIWI		PROG 112		
	drn	Drain parameters family.				
		ldr	30	Initial Drain Phase Duration [s].		
		Fdr	80	Final Drain Phase Duration [s].		
		drt	0	Drain and cleaning mode.		
		[bd]	0	Wash tank water change frequency control disabled.		
	dPA	Set other parameters.				
		1PA	0	Initial Pause [s] (for ALL cycles).		
		dl y	3	Delay for the 2 nd wash pump [s].		
		Pdr	8	Drain Phase Duration at the end of washing phase [s].		
		r P A	8	Duration of pause after the rinse cycle [s] (for ALL cycles).		
		[F	8	Degrees Celsius display.		
		rit	8	During the rinse stage, the display shows the boiler temperature.		
	HEP	Enter into HCP parameter family and set the following parameters.				
		5Er	1	Machine arranged for remote connection to PC.		
6.	Switch OFF	F and then switch ON the machine.				
	GEn	Enter into	o GEn pa	rameter family.		
		d In	25	Initial Detergent Dosage.		
		r In	10	Initial Rinse Aid Dosage.		
		dEt	4	Detergent dispensing during the wash cycle (loading during wash stage).		
		rA .	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		
7.	Switch OFF	and then swi	itch ON th	e machine.		

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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EUC	AICL	_VV	PROG 113
	and then swi		ne machine.
[F G	Enter inte	o CFG pa	rameter family and set the following parameters:
	F Ab	0	Hood Type and undercounter.
	bo i	8	Atmospheric boiler.
	doo	2	Front loading function.
	dFL	3	Default values for Undercounter models.
	tre	1	SOFT START enabled.
	b_t	1	Tank heater works only if boiler temperature reached.
	bł F	75	Enable filling tank by means of rinsing cycles.
	LE5	1	Detergent level switches enabled.
	u i	9	Select user interface hood type/ undercounter model.
	rE	8	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAG	8	Boiler electronic level sensor.
	FrG	8	Resin regeneration cycle forcing.
	5 <i>-</i> U	10	Rinse water max. hardness.
	ЬPa	50	Boiler heating control.
Switch OFF	and then swi	itch ON th	-
	tory paramete		
FAE	Enter inte	o FAC pai	rameter family and set the following parameters.
	ЬŁζ	78	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяJ	4	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	b5Ł	2	Booster Function.
	bŁd	8	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	££[63	Tub Temperature: Threshold.
	ŁH,	75	Tank temperature: alarm threshold.
Modify the	cycle paramet	ters:	
[41	Cycle 1 p	oarametei	rs family.
	Lnl	1	Long Wash Phase [min].
	5h 1	12	Short Wash Phase [s].
	PA I	4	Pause [s].
	ril	12	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
	FP 1	2	Final Pause [s].
[75	Cycle 2 p	paramete	rs family.
	LnZ	1	Long Wash Phase [min].
	5h2	42	Short Wash Phase [s].
	PA2	4	Pause [s].
	r 12	12	Rinse Phase Duration [s].
	dr2	25	Drain [s].
	FP2	2	Final Pause [s].
EY3	Cycle 3 p	oarametei	
	Enl	3	Long Wash Phase [min].
	5h3	42	Short Wash Phase [s].
	PA3	4	Pause [s].
	r 13	12	Rinse Phase Duration [s].
	dr 3	25	Drain [s].
	FP3	2	Final Pause [s].
		_	a d

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E	EUC	AICL	W	PROG 113	
	drn	Drain parameters family.			
		ldr	30	Initial Drain Phase Duration [s].	
		Fdr	80	Final Drain Phase Duration [s].	
		drt	1	Drain and cleaning mode.	
		[bd]	0	Wash tank water change frequency control disabled.	
	dPA	Set other	r paramet	ers.	
		1PA	0	Initial Pause [s] (for ALL cycles).	
		dl y	3	Delay for the 2 nd wash pump [s].	
		Pdr	8	Drain Phase Duration at the end of washing phase [s].	
		r P A	8	Duration of pause after the rinse cycle [s] (for ALL cycles).	
		[F	8	Degrees Celsius display.	
		rit	8	During the rinse stage, the display shows the boiler temperature.	
	HEP	Enter into HCP parameter family and set the following parameters.			
		5Er	1	Machine arranged for remote connection to PC.	
6.	Switch OFF	and then swi	itch ON th	e machine.	
	ũE n	Enter into GEn parameter family.			
		d In	90	Initial Detergent Dosage.	
		r In	10	Initial Rinse Aid Dosage.	
		dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).	
		rA .	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).	
7.	Switch OFF	and then swi	itch ON th	ne machine.	

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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		/ EUCI PROG 11
OFF and then swi	itch ON th	ne machine.
Enter inte	o CFG pa	rameter family and set the following parameters:
ŁУР	0	Hood Type and undercounter.
bo ,	1	Pressure boiler.
doo	2	Front loading function.
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	0	The tank is filled into the traditional way.
LE5	0	Detergent level switches not enabled.
U I	8	ACTIVE function disabled.
r E	8	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
Al r	1	Alarms enabled.
ARG	0	Boiler electronic level sensor.
FrG	0	Resin regeneration cycle forcing.
5rU	10	Rinse water max. hardness.
bPo	50	Boiler heating control.
		-
Enter into	o FAC pai	rameter family and set the following parameters.
ይ ትፒ	86	Boiler Temperature Threshold.
ьн ,	96	Boiler temperature: alarm threshold.
ЬЯJ	0	Boiler Temperature Adjust.
ЬР	1	Boiler standby function enabled.
65E	2	Booster Function.
bt d	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
££[Tub Temperature: Threshold.
		Tank temperature: alarm threshold.
		rs family.
Lnl	1	Long Wash Phase [min].
5h 1	10	Short Wash Phase [s].
PA I	4	Pause [s].
r.1		Rinse Phase Duration [s].
dr 1		Drain [s].
FP I		Final Pause [s].
		Long Wash Phase [min].
		Short Wash Phase [s].
		Pause [s].
		Rinse Phase Duration [s].
		Drain [s].
		Final Pause [s].
		Long Wash Phase [min].
		Short Wash Phase [s].
_	_	Pause [s].
		Rinse Phase Duration [s].
dr∃	30	Drain [s].
FP3	8	Final Pause [s].
	Enter int EYP Bood of L Erc BLES UI FE RIF RRG FrG SrU BPO OFF and then sw Factory paramete Enter int BLE BH BAJ BP BSE BH Cycle 1 Ln I Sh I FP I Cycle 2 Ln Z Sh Z PR Z r · Z dr Z FP Z Cycle 3 Ln 3 Sh 3 PR 3 r · 3	Enter into CFG part by P O bo o of the first state of the switch ON the first state of the cycle parameters: Cycle 1 parameter the cycle 2 parameter that is a state of the cycle 3 parameter that is a

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Z	UCI	/ AL	JCI	/ EUCI PROG 114				
	drn	Drain pa	Drain parameters family.					
		ldr	30	Initial Drain Phase Duration [s].				
		Fdr	80	Final Drain Phase Duration [s].				
		drt	0	Drain and cleaning mode.				
		[bd	0	Wash tank water change frequency control disabled.				
	dPR	Set other	r paramet	ers.				
		1PA	8	Initial Pause [s] (for ALL cycles).				
		dl y	3	Delay for the 2 nd wash pump [s].				
		Pdr	<i>0</i>	Drain Phase Duration at the end of washing phase [s].				
		rPA	<i>0</i>	Duration of pause after the rinse cycle [s] (for ALL cycles).				
		[F	0	Degrees Celsius display.				
		rik	0	During the rinse stage, the display shows the boiler temperature.				
	HEP	Enter inte	o HCP pa	rameter family and set the following parameters.				
		5Er	1	Machine arranged for remote connection to PC.				
6.	Switch OFF	and then swi	itch ON th	ne machine.				
	<u>GE</u> n	Enter into GEn parameter family.						
		d In	50	Initial Detergent Dosage.				
		r In	10	Initial Rinse Aid Dosage.				
		dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).				
		rA,	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).				
7.	Switch OFF	and then swi	itch ON th	ne machine.				

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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=U(CIM		PROG 11		
	OFF and then swi	tch ON th			
[FG			trameter family and set the following parameters:		
	ŁУР	0	Hood Type and undercounter.		
	bo ı	1	Pressure boiler.		
	doo	2	Front loading function.		
	dFL	3	Default values for Undercounter models.		
	tre	1	SOFT START enabled.		
	b.t	1	Tank heater works only if boiler temperature reached.		
	b t F	75	Enable filling tank by means of rinsing cycles.		
	LES	0	Detergent level switches not enabled.		
	<u>и</u> 1	9	Select user interface hood type/ undercounter model.		
	r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).		
	Alr	1	Alarms enabled.		
	AAG	Ö	Boiler electronic level sensor.		
	FrG	0	Resin regeneration cycle forcing.		
	5rU	10	Rinse water max. hardness.		
	bPa	50	Boiler heating control.		
Switch	OFF and then swi		-		
	Factory paramete		· · · · · · · · · · · · · · · · · · ·		
FAE			rameter family and set the following parameters.		
	PF[90	Boiler Temperature Threshold.		
	ьн ,	0	Disable boiler high Temperature alarm (£ 2).		
	ЬЯJ	0	Boiler Temperature Adjust.		
	<i>ЬР</i>	1	Boiler standby function enabled.		
	65£	ż	Booster Function.		
	bt d	10	During stand-by boiler is kept at lower temperature than Temperature Threshold.		
	££[5.5 5.5	Tub Temperature: Threshold.		
	EH ,	85	Tank temperature: alarm threshold.		
. Modify t	the cycle paramet		Tank temperature, diarm throuled.		
[Y1		oarametei	rs family.		
	Lnl	1	Long Wash Phase [min].		
	5h 1	10	Short Wash Phase [s].		
	PA I	4	Pause [s].		
	r.1	15	Rinse Phase Duration [s].		
	dr 1	30	Drain [s].		
	FP 1	0	Final Pause [s].		
[45		paramete			
	LnZ	Jarameter 1	Long Wash Phase [min].		
	5h2	40 40	Short Wash Phase [s].		
	PR2	4	Pause [s].		
	ر رج ۱۳۰	15	Rinse Phase Duration [s].		
	dr 2	30			
	erc FP2	2 U	Drain [s]. Final Pause [s].		
[43					
133	Ln3	parameter			
	5h3	_	Long Wash Phase [min].		
		40	Short Wash Phase [s].		
	PA3	4	Pause [s].		
	r 13	15	Rinse Phase Duration [s].		
	Erb	30	Drain [s].		
	FP3	0	Final Pause [s].		
	bt 3	0	Boiler Temperature Threshold for Cycle 3.		

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E	UCI	M		PROG 115	
	drn	Drain pa	rameters	family.	
		ldr	30	Initial Drain Phase Duration [s].	
		Fdr	80	Final Drain Phase Duration [s].	
		drt	0	Drain and cleaning mode.	
		[bd	0	Wash tank water change frequency control disabled.	
	dPA	Set other	r paramet	ers.	
		1PA	5	Initial Pause [s] (for ALL cycles).	
		dl y	3	Delay for the 2 nd wash pump [s].	
		Pdr	8	Drain Phase Duration at the end of washing phase [s].	
		r PA	8	Duration of pause after the rinse cycle [s] (for ALL cycles).	
		[F	8	Degrees Celsius display.	
		rit	8	During the rinse stage, the display shows the boiler temperature.	
	HEP	Enter into	o HCP pa	arameter family and set the following parameters.	
		5Er	1	Machine arranged for remote connection to PC.	
6.	Switch OFF	and then switch ON the machine.			
	GEn	Enter into	o GEn pa	rameter family.	
		d In	50	Initial Detergent Dosage.	
		r In	10	Initial Rinse Aid Dosage.	
		dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).	
		rA i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).	
7.	Switch OFF	and then swi	tch ON th	ne machine.	

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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AUC	ΑI		PROG 116
. Switch OFF	F and then swi	tch ON th	ne machine.
. [FG	Enter into	o CFG pa	rameter family and set the following parameters:
	FAb	0	Hood Type and undercounter.
	bo ,	8	Atmospheric boiler.
	doo	2	Front loading function.
	dFL	3	Default values for Undercounter models.
	tre	1	SOFT START enabled.
	b_t	1	Tank heater works only if boiler temperature reached.
	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.
	rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAG	0	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5 <i>-U</i>	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
. Switch OF	F and then swi	tch ON th	ne machine.
	tory paramete	rs:	
FAC		o FAC pai	rameter family and set the following parameters.
	ьŁТ	80	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяј	0	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	b5Ł	2	Booster Function.
	bt d	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	££[63	Tub Temperature: Threshold.
	EH,	75	Tank temperature: alarm threshold.
. Modify the	cycle paramet	ers:	
[41	Cycle 1 p	parametei	rs family.
	Lal	1	Long Wash Phase [min].
	5h 1	12	Short Wash Phase [s].
	PA I	4	Pause [s].
	ril	12	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
	FP !	2	Final Pause [s].
[75	Cycle 2 p	oarametei	rs family.
	LnZ	1	Long Wash Phase [min].
	5h2	42	Short Wash Phase [s].
	PA2	4	Pause [s].
	r 12	12	Rinse Phase Duration [s].
	dr2	25	Drain [s].
	FP2	2	Final Pause [s].
[43	Cycle 3 p	paramete	rs family.
	Enl	3	Long Wash Phase [min].
	5h3	42	Short Wash Phase [s].
		4	Pause [s].
	PA3		
	r 13	12	Rinse Phase Duration [s].
		12 25	Rinse Phase Duration [s]. Drain [s].
	r i3	12 25 2	Rinse Phase Duration [s]. Drain [s]. Final Pause [s].

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Δ	UC	AI		PROG 116
	drn	Drain par	rameters	family.
		ldr	30	Initial Drain Phase Duration [s].
		Fdr	80	Final Drain Phase Duration [s].
		drt	8	Drain and cleaning mode.
		[bd	8	Wash tank water change frequency control disabled.
	dPA	Set other	r paramet	ers.
		1PA	0	Initial Pause [s] (for ALL cycles).
		dl y	3	Delay for the 2 nd wash pump [s].
		Pdr	8	Drain Phase Duration at the end of washing phase [s].
		r PA	<i>0</i>	Duration of pause after the rinse cycle [s] (for ALL cycles).
		[F	<i>0</i>	Degrees Celsius display.
		rit	8	During the rinse stage, the display shows the boiler temperature.
	HEP	Enter into	o HCP pa	rameter family and set the following parameters.
		5Er	1	Machine arranged for remote connection to PC.
6.	Switch OFF	and then swi	tch ON th	e machine.
	<u>GE</u> n	Enter into	o GEn pai	rameter family.
		d In	50	Initial Detergent Dosage.
		r In	10	Initial Rinse Aid Dosage.
		dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).
		rAi	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).
7.	Switch OFF	and then swi	tch ON th	e machine.

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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1U(CAIDF	<u> </u>	S PROG 11				
	OFF and then swi	tch ON th	ne machine.				
[FG		Enter into CFG parameter family and set the following parameters:					
	ŁУР	0	Hood Type and undercounter.				
	bo ,	8	Atmospheric boiler.				
	doo	2	Front loading function.				
	dfl	3	Default values for Undercounter models.				
	trc	1	SOFT START enabled.				
	b_t	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.				
	ម រ	9	Select user interface hood type/ undercounter model.				
	r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).				
	Al r	1	Alarms enabled.				
	AAG	1	Boiler float level sensor.				
	FrG	0	Resin regeneration cycle forcing.				
	5rU	10	Rinse water max. hardness.				
	ьРо	50	Boiler heating control.				
. Switch	OFF and then swi	tch ON th	ne machine.				
	Factory paramete						
FAC			rameter family and set the following parameters.				
	PFL	80	Boiler Temperature Threshold.				
	ьн .	96	Boiler temperature: alarm threshold.				
	ьяJ	0	Boiler Temperature Adjust.				
	ЬP 	1	Boiler standby function enabled.				
	65E	2	Booster Function.				
	bt d	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.				
	FFC	63	Tub Temperature: Threshold.				
	£H,	75	Tank temperature: alarm threshold.				
	the cycle paramet						
[41		paramete	•				
	Lai	1	Long Wash Phase [min].				
	5h 1	12	Short Wash Phase [s].				
	PR I	4	Pause [s].				
	r 11	12	Rinse Phase Duration [s].				
	dr 1 FP 1	25	Drain [s].				
FUT		2	Final Pause [s].				
[72		paramete					
	L n Z 5 h Z	l U D	Long Wash Phase [min].				
	27C PA2	42	Short Wash Phase [s].				
		13	Pause [s].				
	ر برکر 1 م	12 26	Rinse Phase Duration [s].				
	dr2 FP2	25 2	Drain [s].				
<i></i>			Final Pause [s].				
[43		oarametei					
	En]	3	Long Wash Phase [min].				
	5h3	42	Short Wash Phase [s].				
	PA3	4	Pause [s].				
	r 13	12	Rinse Phase Duration [s].				
	dr3	25	Drain [s].				
	FP3	2	Final Pause [s].				
	6±3	8	Boiler Temperature Threshold for Cycle 3.				

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4U (CAID	PW:	S PROG 11			
drn	Drain pa	Drain parameters family.				
	ldr	30	Initial Drain Phase Duration [s].			
	Fdr	80	Final Drain Phase Duration [s].			
	dr£	8	Drain and cleaning mode.			
	[bd	8	Wash tank water change frequency control disabled.			
dPA	Set other	er paramet	ers.			
	1PA	0	Initial Pause [s] (for ALL cycles).			
	dl y	3	Delay for the 2 nd wash pump [s].			
	Pdr	8	Drain Phase Duration at the end of washing phase [s].			
	rPA	8	Duration of pause after the rinse cycle [s] (for ALL cycles).			
	[F	8	Degrees Celsius display.			
	rit	8	During the rinse stage, the display shows the boiler temperature.			
HEP	Enter in	Enter into HCP parameter family and set the following parameters.				
	5Er	9	Dishwasher with incorporated continuous water softener.			
. Switch	OFF and then sv	FF and then switch ON the machine.				
GEn	Enter in	to GEn pa	rameter family.			
	d In	50	Initial Detergent Dosage.			
	r In	10	Initial Rinse Aid Dosage.			
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).			
	rA .	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).			

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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I HV	/ KH	I /	EHT PROG 118
. Switch OFF	and then swi	tch ON th	e machine.
. <i>[FG</i>	Enter into	CFG pa	rameter family and set the following parameters:
	ŁУР	8	Hood Type and undercounter.
	bo ,	1	Pressure boiler.
	doo	1	Manual Hood.
	dFL	1	Default values for Hood Type models.
	tre	8	Disabled (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>	8	ACTIVE function disabled.
	rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	ARG	8	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
. Switch OFF	and then swi		·
	ory paramete		o madrino.
FAE			ameter family and set the following parameters.
	ЬŁΣ	84	Boiler Temperature Threshold.
	ЬН	96	Boiler temperature: alarm threshold.
	ьял	0	Boiler Temperature Adjust.
	6 <i>P</i>	,	Boiler standby function enabled.
	65t	,	Booster Function.
	btd	Ö	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	££[63	Tub Temperature: Threshold.
	FH '	75	
. Modify the o	cycle paramet		Tank temperature: alarm threshold.
Ey:		arameter	s family
	Lal	<u> </u>	Long Wash Phase [min].
	5h 1	34	Short Wash Phase [s].
	PR I	4	Pause [s].
	ril	15	
			Rinse Phase Duration [s].
	dr 1 FP 1	30 n	Drain [s].
F117		0	Final Pause [s].
[75		parameter	
	LnZ	1	Long Wash Phase [min].
	5h2	10	Short Wash Phase [s].
	PA2	4	Pause [s].
	۲ رک	16	Rinse Phase Duration [s].
	dr2	30	Drain [s].
-	FP2	0	Final Pause [s].
EY3		oarameter	
	Enl	2	Long Wash Phase [min].
	5h3	10	Short Wash Phase [s].
	PA3	4	Pause [s].
	r 13	15	Rinse Phase Duration [s].
	dr∃	30	Drain [s].
	FP3	8	Final Pause [s].
	bt 3	0	Boiler Temperature Threshold for Cycle 3.

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/	IHT /	KH	T /	EHT PROG 118			
	drn	Drain parameters family.					
		ldr	40	Initial Drain Phase Duration [s].			
		Fdr	80	Final Drain Phase Duration [s].			
		drt	0	Drain and cleaning mode.			
		[bd]	0	Wash tank water change frequency control disabled.			
	dPA	Set other	r paramet	ers.			
		1PA	0	Initial Pause [s] (for ALL cycles).			
		dl y	3	Delay for the 2 nd wash pump [s].			
		Pdr	8	Drain Phase Duration at the end of washing phase [s].			
		r PA	<i>0</i>	Duration of pause after the rinse cycle [s] (for ALL cycles).			
		[F	<i>0</i>	Degrees Celsius display.			
		rit	0	During the rinse stage, the display shows the boiler temperature.			
	HEP	Enter into HCP parameter family and set the following parameters.					
		5Er	1	Machine arranged for remote connection to PC.			
6.	Switch OFF a	and then swi	tch ON th	e machine.			
	<u>GE</u> n	Enter into	o GEn pai	rameter family.			
		d In	90	Initial Detergent Dosage.			
		r In	10	Initial Rinse Aid Dosage.			
		dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).			
		rA,	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).			
7.	Switch OFF a	and then swi	tch ON th	e machine.			

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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THN	G/E	HT	G PROG 119
. Switch C	FF and then swi	itch ON th	ne machine.
. <i>[FG</i>	Enter into	o CFG pa	rameter family and set the following parameters:
	ŁУР	0	Hood Type and undercounter.
	boı	0	Atmospheric boiler.
	doo	1	Manual Hood.
	dFL	1	Default values for Hood Type models.
	trc	0	Disabled (for this appliance SOFT START is NOT possible).
	b_£	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.
	ម	8	ACTIVE function disabled.
	r E	8	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAG	8	Boiler electronic level sensor.
	FrG	8	Resin regeneration cycle forcing.
	5 <i>rU</i>	10	Rinse water max. hardness.
	ьРо	50	Boiler heating control.
. Switch C	FF and then swi	itch ON th	ne machine.
	actory paramete		
FAE		o FAC pai	rameter family and set the following parameters.
	ЬŁ[82	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяJ	0	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65E	1	Booster Function.
	bŁd	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[63	Tub Temperature: Threshold.
	EH,	75	Tank temperature: alarm threshold.
	ne cycle paramet	ters:	
[7]	· · · · · · · · · · · · · · · · · · ·	oarametei	rs family.
	Ln1	0	Long Wash Phase [min].
	5h 1	36	Short Wash Phase [s].
	PA I	4	Pause [s].
	rit	12	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
	FP (2	Final Pause [s].
[75		oarametei	·
	LnZ	1	Long Wash Phase [min].
	5h2	12	Short Wash Phase [s].
	PA2	4	Pause [s].
	r 12	12	Rinse Phase Duration [s].
	dr2	25	Drain [s].
	FP2	2	Final Pause [s].
[43	Cycle 3 p	oarametei	rs family.
	Enl	2	Long Wash Phase [min].
	5h3	12	Short Wash Phase [s].
	PA3	4	Pause [s].
	r i3	12	Rinse Phase Duration [s].
	dr∃	25	Drain [s].
	FP3	2	Final Pause [s].
	bt 3	0	Boiler Temperature Threshold for Cycle 3.

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N	IHT(G/E	HT	G PROG 119
	drn	Drain par	rameters	family.
		1dr	40	Initial Drain Phase Duration [s].
		Fdr	80	Final Drain Phase Duration [s].
		drt	0	Drain and cleaning mode.
		[bd	0	Wash tank water change frequency control disabled.
	dPA	Set other	r paramet	ers.
		1PA	8	Initial Pause [s] (for ALL cycles).
		dl y	3	Delay for the 2 nd wash pump [s].
		Pdr	0	Drain Phase Duration at the end of washing phase [s].
		rPA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).
		[F	0	Degrees Celsius display.
		rit	0	During the rinse stage, the display shows the boiler temperature.
	HEP	Enter into	o HCP pa	rameter family and set the following parameters.
		5Er	1	Machine arranged for remote connection to PC.
6.	Switch OFF	and then swi	tch ON th	e machine.
	GEn	Enter into	o GEn pai	rameter family.
		d In	90	Initial Detergent Dosage.
		r In	10	Initial Rinse Aid Dosage.
		dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).
		rA,	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).
7.	Switch OFF	and then swi	tch ON th	e machine.

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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	A/A		A / EHTA PROG 12
	and then swi		
[F G	Enter into	o CFG pa	rameter family and set the following parameters:
	F Ab	0	Hood Type and undercounter.
	bo ı	0	Atmospheric boiler.
	doo	1	Manual Hood.
	dFL	1	Default values for Hood Type models.
	tre	8	Disabled (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	0	Detergent level switches not enabled.
	<i>U 1</i>	9	Select user interface hood type/ undercounter model.
	rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAG	0	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
Switch OFF	and then swi		
	tory paramete		
FAE			rameter family and set the following parameters.
	ЬŁΊ	78	Boiler Temperature Threshold.
	ьн	96	Boiler temperature: alarm threshold.
	ЬЯJ	4	Boiler Temperature Adjust.
	6 <i>P</i>	į	Boiler standby function enabled.
	65E	ż	Booster Function.
	bt d	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	tt[53	
	EH,	75	Tub Temperature: Threshold.
Madifytha			Tank temperature: alarm threshold.
Modify the	cycle paramet		re family
131		oarametei	
	Ln 1 5h 1	0 36	Long Wash Phase [min].
		36	Short Wash Phase [s].
	PR I	4	Pause [s].
	ril	12	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
E) 4 3	FP 1	2	Final Pause [s].
[75		paramete	•
	LnZ	1	Long Wash Phase [min].
	5h2	12	Short Wash Phase [s].
	PA2	4	Pause [s].
	2، م	12	Rinse Phase Duration [s].
	dr2	25	Drain [s].
	FP2	2	Final Pause [s].
[43		oarametei	rs family.
	Enl	2	Long Wash Phase [min].
	5h3	12	Short Wash Phase [s].
	PA3	4	Pause [s].
	r 13	12	Rinse Phase Duration [s].
	dr 3	25	Drain [s].
	FP3	2	Final Pause [s].
	bt 3	0	Boiler Temperature Threshold for Cycle 3.

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ZHTA	A / A l	HT/	A/EHTA PI	ROG 12			
drn	Drain parameters family.						
	ldr	40	Initial Drain Phase Duration [s].				
	Fdr	80	Final Drain Phase Duration [s].				
	drt	0	Drain and cleaning mode.				
	[bd	0	Wash tank water change frequency control disabled.				
dPA	Set other	r paramet	ers.				
	1PA	0	Initial Pause [s] (for ALL cycles).				
	dl y	3	Delay for the 2 nd wash pump [s].				
	Pdr	8	Drain Phase Duration at the end of washing phase [s].				
	r PA	8	Duration of pause after the rinse cycle [s] (for ALL cycles).				
	[F	8	Degrees Celsius display.				
	rit	8	During the rinse stage, the display shows the boiler temperature.				
	ELE	0	Termal Label mode disabled (Functions present with firmware vers	sion 4.04).			
HEP	Enter into HCP parameter family and set the following parameters.						
	5Er	1	Machine arranged for remote connection to PC.				
Switch OFF	and then swi	tch ON th	ne machine.				
ũE ∩	Enter into	o GEn pa	rameter family.				
	d In	90	Initial Detergent Dosage.				
	r In	10	Initial Rinse Aid Dosage.				
	dEt	5	Detergent dispensing during the wash cycle (loading during wash	stage).			
	rA,	4	Rinse aid dispensing during the rinse cycle (loading during boiler t	filling stage).			

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

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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Switch OFF	Enter into (e machine. rameter family and set the following parameters: Hood Type and undercounter. Atmospheric boiler. Manual Hood. Default values for Hood Type models. Disabled (for this appliance SOFT START is NOT possible). Tank heater works only if boiler temperature reached.
LFU	£ YP 600 dFL £rc 6_£ 6£F LES	0 1 1 0	Hood Type and undercounter. Atmospheric boiler. Manual Hood. Default values for Hood Type models. Disabled (for this appliance SOFT START is NOT possible).
	bo , doo dfl trc b_t btf LES	0 1 1 0	Atmospheric boiler. Manual Hood. Default values for Hood Type models. Disabled (for this appliance SOFT START is NOT possible).
	doo dfl trc b_t btf LES	1 1 0 1	Manual Hood. Default values for Hood Type models. Disabled (for this appliance SOFT START is NOT possible).
	dFL trc b_t btF LES	1	Default values for Hood Type models. Disabled (for this appliance SOFT START is NOT possible).
	trc b_t btF LES	0	Disabled (for this appliance SOFT START is NOT possible).
	b_t blf les	1	
	bef LES		lank haatar warke anly it hailar tamparatura raachad
	LE5	15	
		_	Enable filling tank by means of rinsing cycles.
	üi	0	Detergent level switches not enabled.
	_	9	Select user interface hood type/ undercounter model.
	r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r		Alarms enabled.
ĺ	AAG 5 5	1	Boiler float level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	bPo .	50	Boiler heating control.
	and then switc		e machine.
FAE	ory parameters		ometer femily and get the following parameters
FAL	be T	78	ameter family and set the following parameters.
	BH 1		Boiler Temperature Threshold.
	6AJ	96 4	Boiler temperature: alarm threshold.
	bP		Boiler Temperature Adjust.
	65E	1	Boiler standby function enabled.
	osc błd	2	Booster Function.
	660 EE[53	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	EH 1	75	Tub Temperature: Threshold.
Modify the c	cycle parameter		Tank temperature: alarm threshold.
Ey 1	Cycle 1 pa		s family
	Ln 1	<i>B</i>	Long Wash Phase [min].
	5h 1	36	Short Wash Phase [s].
	PA 1	4	Pause [s].
	ril	12	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
	FP 1	2	Final Pause [s].
[45	Cycle 2 pa	rameter	
	LnZ	1	Long Wash Phase [min].
	5h2	12	Short Wash Phase [s].
	PA2	4	Pause [s].
	2 ، ۲	12	Rinse Phase Duration [s].
	dr2	25	Drain [s].
	FP2	2	Final Pause [s].
[43	Cycle 3 pa		
	Ln3	2	Long Wash Phase [min].
	5h3	12	Short Wash Phase [s].
	PA3	4	Pause [s].
	r 13	12	Rinse Phase Duration [s].
	, 13 dr 3	25	Drain [s].
	FP3	5	Final Pause [s].
	bt 3	0	Boiler Temperature Threshold for Cycle 3.

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HT/	NS	/ Al	HTAWS/ EHTAWS PROG 12 [.]				
drn	Drain parameters family.						
	ldr	40	Initial Drain Phase Duration [s].				
	Fdr	100	Final Drain Phase Duration [s].				
	drt	0	Drain and cleaning mode.				
	[bd]	0	Wash tank water change frequency control disabled.				
dPA	Set othe	r paramet	ers.				
	1PA	0	Initial Pause [s] (for ALL cycles).				
	dly	3	Delay for the 2 nd wash pump [s].				
	Pdr	8	Drain Phase Duration at the end of washing phase [s].				
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).				
	[F	8	Degrees Celsius display.				
	rit	0	During the rinse stage, the display shows the boiler temperature.				
HEP	Enter into HCP parameter family and set the following parameters.						
	5Er	9	Dishwasher with incorporated continuous water softener.				
Switch OFF	and then sw	itch ON th	ue machine.				
GEn	Enter int	o GEn pa	rameter family.				
	d In	90	Initial Detergent Dosage.				
	r In	10	Initial Rinse Aid Dosage.				
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).				
	rA .	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).				

7. Switch OFF and then switch ON the machine.

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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ZHTA	MAU	<u>/</u> E	HTAIAU	PROG 122
	and then swit			
[FG			ameter family and set the following parameters:	
	E YP	0	Hood Type and undercounter.	
	bo ı	8	Atmospheric boiler.	
	doo	0	Automatic Hood.	
	dFL	1	Default values for Hood Type models.	
	trc	0	Disabled (for this appliance SOFT START is NOT pe	ossible).
	b_£	1	Tank heater works only if boiler temperature reache	ed.
	bef	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/ undercounter mode	el.
	rE	<i>0</i>	Regeneration cycle disabled (only for dishwashers	with non-continuous water softener).
	Al r	1	Alarms enabled.	
	ARG	0	Boiler electronic level sensor.	
	FrG	0	Resin regeneration cycle forcing.	
	SrU	10	Rinse water max. hardness.	
	bPo	50	Boiler heating control.	
Switch OFF	and then swit	ch ON th	e machine.	
	ory parameter	s:		
FAC	Enter into	FAC par	ameter family and set the following parameters.	
	błľ	78	Boiler Temperature Threshold.	
	ьн ,	96	Boiler temperature: alarm threshold.	
	ьяJ	4	Boiler Temperature Adjust.	
	ЬР	1	Boiler standby function enabled.	
	b5Ł	2	Booster Function.	
	bt d	8	During stand-by boiler is kept at lower temperature	than Temperature Threshold.
	££[63	Tub Temperature: Threshold.	
	EH 1	75	Tank temperature: alarm threshold.	
Modify the o	cycle paramete	ers:		
[41	Cycle 1 pa	arameter	s family.	
	Lnl	<i>0</i>	Long Wash Phase [min].	
	5h 1	36	Short Wash Phase [s].	
	PR I	4	Pause [s].	
	ril	12	Rinse Phase Duration [s].	
	dr 1	25	Drain [s].	
	FP !	2	Final Pause [s].	
[75	Cycle 2 pa	arameter	s family.	
	LnZ	1	Long Wash Phase [min].	
	5h2	12	Short Wash Phase [s].	
	PR2	4	Pause [s].	
	r 12	12	Rinse Phase Duration [s].	
	dr2	25	Drain [s].	
	FP2	2	Final Pause [s].	
[43	Cycle 3 pa	arameter		
	Enl	2	Long Wash Phase [min].	
	5h3	12	Short Wash Phase [s].	
	PA3	4	Pause [s].	
	r i3	12	Rinse Phase Duration [s].	
	dr3	25	Drain [s].	
	FP3	2	Final Pause [s].	
1	bt 3	0	Boiler Temperature Threshold for Cycle 3.	

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drn	Drain parameters family.					
<i>0, 1</i>	idr					
		40	Initial Drain Phase Duration [s].			
	Fdr	80	Final Drain Phase Duration [s].			
	drt	0	Drain and cleaning mode.			
	[bd	0	Wash tank water change frequency control disabled.			
dPA	Set other	paramet	ers.			
	1PA	2	Initial Pause [s] (for ALL cycles).			
	dl y	3	Delay for the 2 nd wash pump [s].			
	Pdr	0	Drain Phase Duration at the end of washing phase [s].			
	rPA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).			
	[F	8	Degrees Celsius display.			
	rit	8	During the rinse stage, the display shows the boiler temperature.			
HEP	Enter into HCP parameter family and set the following parameters.					
	5Er	1	Machine arranged for remote connection to PC.			
witch OFF	and then swi	tch ON th	e machine.			
<u>GE</u> n	Enter into	o GEn pa	rameter family.			
	d In	90	Initial Detergent Dosage.			
	r In	10	Initial Rinse Aid Dosage.			
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).			
	rA.	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling sta	ae).		

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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EHT/	AIIVIL	AU	PROG 123
. Switch OFF	and then swi	tch ON th	ne machine.
. [FG	Enter into	o CFG pa	rameter family and set the following parameters:
	ŁУР	0	Hood Type and undercounter.
	bo ,	8	Atmospheric boiler.
	doo	8	Automatic Hood.
	dFL	1	Default values for Hood Type models.
	tre	0	Disabled (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	<i>0</i>	Detergent level switches not enabled.
	<i>U 1</i>	9	Select user interface hood type/ undercounter model.
	rE	8	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	ARG	0	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
. Switch OFF	and then swi		
	ory paramete		
FAE			rameter family and set the following parameters.
	PFI	90	Boiler Temperature Threshold.
	ЬН	0	Disable boiler high Temperature alarm (£ ?).
	ьял	0	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65E	خ	Booster Function.
	btd	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[<i>6</i> 5	Tub Temperature: Threshold.
	FH '	85	Tank temperature: alarm threshold.
. Modify the o	cycle paramet		iank temperature, alaim tineshold.
Ey i		oarameter	rs family
	Lal	2	Long Wash Phase [min].
	5h 1	32	Short Wash Phase [s].
	PR I	4	Pause [s].
	r (1	35	Rinse Phase Duration [s].
	dr 1	40	Drain [s].
	FP 1	15	Final Pause [s].
[75			
r 3E	LnZ	parameter	·
] ::	Long Wash Phase [min].
	5h2 PA2	32 u	Short Wash Phase [s].
		4 36	Pause [s].
	r 12	35	Rinse Phase Duration [s].
	dr2	40	Drain [s].
F.4.=	FPZ	15	Final Pause [s].
EY3		oarameter -	
	End	5	Long Wash Phase [min].
	5h3	32	Short Wash Phase [s].
	PR3	4	Pause [s].
	r 13	3 4	Rinse Phase Duration [s].
	dr∃	40	Drain [s].
	FP3	15	Final Pause [s].
	bt 3	8	Boiler Temperature Threshold for Cycle 3.

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	AIML	.AU	PROG 123		
drn	Drain pa	rameters	family.		
	ldr	40	Initial Drain Phase Duration [s].		
	Fdr	80	Final Drain Phase Duration [s].		
	drŁ	0	Drain and cleaning mode.		
	[bd	0	Wash tank water change frequency control disabled.		
dPR	Set othe	r paramet	ers.		
	1PR	4	Initial Pause [s] (for ALL cycles).		
	aly	3	Delay for the 2 nd wash pump [s].		
	Pdr	8	Drain Phase Duration at the end of washing phase [s].		
	rPA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[F	0	Degrees Celsius display.		
	rit	0	During the rinse stage, the display shows the boiler temperature.		
HEP	Enter into HCP parameter family and set the following parameters.				
	SEr	1	Machine arranged for remote connection to PC.		
6. Switch O	FF and then sw	itch ON th	ne machine.		
GEn	Enter inte	o GEn pa	rameter family.		
	d in	90	Initial Detergent Dosage.		
	r in	10	Initial Rinse Aid Dosage.		
	dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).		
	r A .	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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ZHTAROW / EHTAROW / ZHTAO / EHTAO

PROG 124

<i></i>	and then switc		and the fact the sent and the fall contains a sent to
[FG			rameter family and set the following parameters:
	FAb	0	Hood Type and undercounter.
	bo ı	0	Atmospheric boiler.
	doo	1	Manual Hood.
	dfl	1	Default values for Hood Type models.
	tre	0	Disabled (for this appliance SOFT START is NOT possible).
	b_E	0	Boiler heaters and tank heater work simultaneously.
	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/ undercounter model.
	rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	ARG	0	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
B. Switch OFF	and then switc		
	tory parameters		
FAÉ			ameter family and set the following parameters.
	ЬŁζ	78	Boiler Temperature Threshold.
	ьн ,	0	Disable boiler high Temperature alarm (?).
	ьяJ	4	Boiler Temperature Adjust.
	bP	1	Boiler standby function enabled.
	65E	Ž	Booster Function.
	bt d	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	££[53	Tank Temperature: Threshold.
	EH ,	0	Disable tank high Temperature alarm (£ 3).
. Modify the	cycle parameter		2.000.0 talik nigir romporatoro alaim (= 2).
<u>[</u>	Cycle 1 pa		s family.
	Lai	0	Long Wash Phase [min].
	5h 1	36	Short Wash Phase [s].
	PR I	4	Pause [s].
	r.1	12	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
	FP I	5	Final Pause [s].
	EL 1	0	
		_	Long Wash Phase inTermal Label mode [min].
F)/7	£51	59	Short Wash Phase inTermal Label mode [s].
[75	Cycle 2 pa		
	LnZ	1	Long Wash Phase [min].
	5h2	12	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	12	Rinse Phase Duration [s].
	dr2	25	Drain [s].
	FP2	2	Final Pause [s].
	FLZ	1	Long Wash Phase inTermal Label mode [min].
	£52	12	Short Wash Phase inTermal Label mode [s].

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PROG 124

[43	Cycle 3 p	oarameter	rs family.	
	Enl	2	Long Wash Phase [min].	
	5h3	12	Short Wash Phase [s].	
	PA3	4	Pause [s].	
	r 13	12	Rinse Phase Duration [s].	
	dr 3	25	Drain [s].	
	FP3	2	Final Pause [s].	
	EL3	2	Long Wash Phase inTermal Label mode [min].	
	£53	12	Short Wash Phase inTermal Label mode [s].	
	bt 3	0	Boiler Temperature Threshold for Cycle 3.	
drn	Drain pa	rameters	family.	
	ldr	40	Initial Drain Phase Duration [s].	
	Fdr	80	Final Drain Phase Duration [s].	
	drt	0	Drain and cleaning mode.	
	[bd	0	Wash tank water change frequency control disabled.	
dPA	Set other parameters.			
	1PA	0	Initial Pause [s] (for ALL cycles).	
	dl y	3	Delay for the 2 nd wash pump [s].	
	Pdr	0	Drain Phase Duration at the end of washing phase [s].	
	rPA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).	
	[F	0	Degrees Celsius display.	
	rit	0	During the rinse stage, the display shows the boiler temperature.	
	ELE	1	Termal Label mode enabled.	
	bŁL	85	Boiler Temperature in Termal Label mode.	
	EEL	75	Tank Temperature in Termal Label mode.	
	F H E	2	Tank Temperature histeresis in Termal Label mode.	
HEP	Enter into	o HCP pa	rameter family and set the following parameters.	
	5Er	1	Machine arranged for remote connection to PC.	
Switch OFF	and then swi	itch ON th	e machine.	
GEn	Enter into	o GEn pa	rameter family.	
	d In	90	Initial Detergent Dosage.	
	r In	10	Initial Rinse Aid Dosage.	
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).	
	c A .	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).	

WARNING:

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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	UCA					
	Switch OFF					
2.	[FG			rameter family and set the following parameters:		
		FAL	0	Hood Type and undercounter.		
		bo 1	0	Atmospheric boiler.		
		doo	2	Manual Hood.		
		dfl	3	Default values for Hood Type models.		
		trc	0	Disabled (for this appliance SOFT START is NOT possible).		
		b _ t	1	Tank heater works only if boiler temperature reached.		
		6 t F	75	Enable filling tank by means of rinsing cycles.		
		LE5	8	Detergent level switches not enabled.		
		<i>U 1</i>	9	Select user interface hood type/ undercounter model.		
		r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).		
		Al r	1	Alarms enabled.		
		ARG	0	Boiler electronic level sensor.		
		FrG	8	Resin regeneration cycle forcing.		
		5 <i>-U</i>	10	Rinse water max. hardness.		
		bPo	50	Boiler heating control.		
3.	3. Switch OFF and then switch ON the machine.					
4.	Modify Factor					
	FAC			rameter family and set the following parameters.		
		PFI	82	Boiler Temperature Threshold.		
		ьн ,	96	Boiler temperature: alarm threshold.		
		ьяJ	4	Boiler Temperature Adjust.		
		ЬР	1	Boiler standby function enabled.		
		b5Ł	0	Booster Function.		
		bŁd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.		
		f f [55	Tub Temperature: Threshold.		
		FH 1	80	Tank temperature: alarm threshold.		
5.	Modify the cy					
	[41	Cycle 1 p				
		Lnl		Long Wash Phase [min].		
		5h 1	22	Short Wash Phase [s].		
		PR I	4	Pause [s].		
		ril	25	Rinse Phase Duration [s].		
		dr 1	40	Drain [s].		
		FP 1	4	Final Pause [s].		
	[75	Cycle 2 p				
		LnZ	2	Long Wash Phase [min].		
		5h2	22	Short Wash Phase [s].		
		PA2	4	Pause [s].		
		2، ۲	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].		
		PR3	4	Pause [s].		
		Ei 7	25	Rinse Phase Duration [s].		
		dr∃	40	Drain [s].		
		FP3	4	Final Pause [s].		
			•	[-].		

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E	EUC	AIUS	SPH	PROG 125		
	drn	Drain pa	family.			
		ldr	30	Initial Drain Phase Duration [s].		
		Fdr	80	Final Drain Phase Duration [s].		
		drt	0	Drain and cleaning mode.		
		[bd]	0	Wash tank water change frequency control disabled.		
	dPA	Set othe	r paramet	ers.		
		1PA	5	Initial Pause [s] (for ALL cycles).		
		dl y	3	Delay for the 2 nd wash pump [s].		
		Pdr	8	Drain Phase Duration at the end of washing phase [s].		
		r PA	8	Duration of pause after the rinse cycle [s] (for ALL cycles).		
		[F	1	Degrees display Fahrenheit.		
		rit	8	During the rinse stage, the display shows the boiler temperature.		
	HEP	Enter into HCP parameter family and set the following parameters.				
		5Er	1	Machine arranged for remote connection to PC.		
6.	Switch OFF	and then sw	itch ON th	ne machine.		
	<u>GE</u> n	Enter int	o GEn pa	rameter family.		
		d In	50	Initial Detergent Dosage.		
		r In	10	Initial Rinse Aid Dosage.		
		dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).		
		rA .	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		
7.	Switch OFF	and then sw	itch ON th	ne machine.		

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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EHT#	NUS	PH	PROG 126
. Switch OFF	and then sw	itch ON th	e machine.
. <i>[FG</i>	Enter int	o CFG pa	rameter family and set the following parameters:
	FAL	8	Hood Type and undercounter.
	boi	0	Atmospheric boiler.
	doo	1	Manual Hood.
	dFL	1	Default values for Hood Type models.
	tre	8	Disabled (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	8	Detergent level switches not enabled.
	<i>U 1</i>	9	Select user interface hood type/ undercounter model.
	rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAG	0	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
. Switch OFF	and then sw		
	ory paramete		
FAE			rameter family and set the following parameters.
	ЬŁζ	78	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ЬЯJ	4	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65E	2	Booster Function.
	bt d	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[6 3	Tub Temperature: Threshold.
	FH 1	75	Tank temperature: alarm threshold.
. Modify the c			Tall Composition and the control of
[41		parameter	rs family.
	Lnl	0	Long Wash Phase [min].
	5h 1	35	Short Wash Phase [s].
	PR I	4	Pause [s].
	r . 1	25	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
	FP 1	0	Final Pause [s].
[45	•	parameter	
	LnZ		Long Wash Phase [min].
	5h2	45	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	25	Rinse Phase Duration [s].
	dr2	25	Drain [s].
	FP2	0	Final Pause [s].
EY3		parameter	
C 2 2	Ln3	parameter 1	Long Wash Phase [min].
	5h3	40 40	Short Wash Phase [s].
	PA3	4 4	
			Pause [s].
	r 13	25 25	Rinse Phase Duration [s].
	dr] 503	25	Drain [s].
	FP3	0	Final Pause [s].
	bŁ∃	0	Boiler Temperature Threshold for Cycle 3.

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E	HT/	AIUS	PH	PROG 126	
	drn	Drain parameters family.			
		ldr	40	Initial Drain Phase Duration [s].	
		Fdr	80	Final Drain Phase Duration [s].	
		drt	0	Drain and cleaning mode.	
		[bd	0	Wash tank water change frequency control disabled.	
	dPA	Set other	r paramet	ers.	
		1PA	0	Initial Pause [s] (for ALL cycles).	
		dl y	3	Delay for the 2 nd wash pump [s].	
		Pdr	8	Drain Phase Duration at the end of washing phase [s].	
		r PA	8	Duration of pause after the rinse cycle [s] (for ALL cycles).	
		[F	1	Degrees display Fahrenheit.	
		rit	8	During the rinse stage, the display shows the boiler temperature.	
	HE P	Enter into HCP parameter family and set the following parameters.			
		5Er	1	Machine arranged for remote connection to PC.	
6.	Switch OFF	and then swi	itch ON th	e machine.	
	GEn	Enter into	o GEn pa	rameter family.	
		d In	90	Initial Detergent Dosage.	
		r In	10	Initial Rinse Aid Dosage.	
		dEt	8	Detergent dispensing during the wash cycle (loading during wash stage).	
		rA .	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).	
7.	Switch OFF	and then swi	itch ON th	ne machine.	

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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Switch OFF	and then swite	ch ON th	e machine.
[FG			rameter family and set the following parameters:
	ŁУР		Hood Type and undercounter.
	bo ı	0	Atmospheric boiler.
	doo	1	Manual Hood.
	dFL	1	Default values for Hood Type models.
	tre	0	Disabled (for this appliance SOFT START is NOT possible).
	b	0	Boiler heaters and tank heater work simultaneously.
	bł F	75	Enable filling tank by means of rinsing cycles.
	LES	0	Detergent level switches not enabled.
	и I	9	Select user interface hood type/ undercounter model.
	r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAG	0	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
Switch OFF	and then swite		
	ory parameters		
FAE			rameter family and set the following parameters.
	ЬŁТ	78	Boiler Temperature Threshold.
	ьн ,	8	Disable boiler high Temperature alarm (£ ?).
	ьяј	4	Boiler Temperature Adjust.
	ЬP	1	Boiler standby function enabled.
	65E	2	Booster Function.
	btd	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	££[63	Tank Temperature: Threshold.
	ŁH,	0	Disable tank high Temperature alarm (£ 3).
Modify the	cycle paramete	ers:	. , ,
[41	Cycle 1 pa		rs family.
	Lnl	0	Long Wash Phase [min].
	5h 1	36	Short Wash Phase [s].
	PR I	4	Pause [s].
	ril	12	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
	FP !	2	Final Pause [s].
	EL 1	8	Long Wash Phase inTermal Label mode [min].
	£51	59	Short Wash Phase inTermal Label mode [s].
[45	Cycle 2 pa	arameter	rs family.
	LnZ	1	Long Wash Phase [min].
	5h2	12	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	12	Rinse Phase Duration [s].
	dr2	25	Drain [s].
	FP2	2	Final Pause [s].
	FFS	1	Long Wash Phase inTermal Label mode [min].
	£52	12	Short Wash Phase inTermal Label mode [s].

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HT/	4RO	W /	OHTAROW60	PROG 12
[43	Cycle 3 p	arameter	s family.	
	Enl	2	Long Wash Phase [min].	
	5h3	12	Short Wash Phase [s].	
	PR3	4	Pause [s].	
	r 13	12	Rinse Phase Duration [s].	
	dr3	25	Drain [s].	
	FP3	2	Final Pause [s].	
	E 3d	8	Boiler Temperature Threshold for Cycle 3.	
	FL3	2	Long Wash Phase inTermal Label mode [min].	
	£53	12	Short Wash Phase inTermal Label mode [s].	
drn	Drain par	ameters	amily.	
	ldr	40	Initial Drain Phase Duration [s].	
	Fdr	80	Final Drain Phase Duration [s].	
	drt	8	Drain and cleaning mode.	
	[bd	8	Wash tank water change frequency control disabled.	
dPA	Set other	paramet	ers.	
	1PA	8	Initial Pause [s] (for ALL cycles).	
	dl y	3	Delay for the 2 nd wash pump [s].	
	Pdr	0	Drain Phase Duration at the end of washing phase [s].	
	r PA	<i>8</i>	Duration of pause after the rinse cycle [s] (for ALL cycles)).
	[F	8	Degrees Celsius display.	
	rit	8	During the rinse stage, the display shows the boiler temperature	erature.
	FLE	1	Termal Label mode enabled.	
	b ŁL	86	Boiler Temperature in Termal Label mode.	
	FFL	75	Tank Temperature in Termal Label mode.	
	FHF	2	Tank Temperature histeresis in Termal Label mode.	
HEP	Enter into	HCP pa	rameter family and set the following parameters.	
	5Er	1	Machine arranged for remote connection to PC.	
	and then swi	tch ON th	e machine.	
<u>GE</u> n			ameter family.	
	d in	90	Initial Detergent Dosage.	
	r In	8	Initial Rinse Aid Dosage.	
	dEt	18 1	Detergent dispenser works when WASH PUMP in activat	ed.
	r A ,	5 1	Rinse Aid dispenser works when LOAD SOLENOID VALV	/E in activated.

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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Z	UCA			PROG 128			
2.	[FG			rameter family and set the following parameters:			
		F Ab	0	Hood Type and undercounter.			
		bo ,	8	Atmospheric boiler.			
		doo	2	Front loading function.			
		dFL	3	Default values for Undercounter models.			
		trc	1	SOFT START enabled.			
		b_£	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.			
		U 1	9	Select user interface hood type/ undercounter model.			
		rE	0	Regeneration cycle disabled.			
		Al r	8	Alarms not enabled.			
		AAG	0	Boiler electronic level sensor.			
		FrG	0	Resin regeneration cycle forcing.			
		5rU	10	Rinse water max. hardness.			
		bPo	50	Boiler heating control.			
3.	Switch OFF ar	nd then swi	tch ON th	e machine.			
4.	Modify Factory	•					
	FAC			ameter family and set the following parameters.			
		PFI	80	Boiler Temperature Threshold.			
		ьн ,	96	Boiler temperature: alarm threshold.			
		PAJ	0	Boiler Temperature Adjust.			
		ЬР	1	Boiler standby function enabled.			
		b5t	2	Booster Function.			
		bt d	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.			
		FF[63	Tub Temperature: Threshold.			
		FH ,	75	Tank temperature: alarm threshold.			
5.	Modify the cyc			o family			
	L31	Cycle 1 p					
		Lai	1	Long Wash Phase [min].			
		5h 1	12	Short Wash Phase [s].			
		PA I	4	Pause [s].			
		r 11	12	Rinse Phase Duration [s].			
		dr 1	25	Drain [s].			
	- FUT	FP (2	Final Pause [s].			
	[75	Cycle 2 p		· · · · · · · · · · · · · · · · · · ·			
		rus.	1	Long Wash Phase [min].			
		5h2	42	Short Wash Phase [s].			
		PA2	4	Pause [s].			
		r 12	12	Rinse Phase Duration [s].			
		dr2	25	Drain [s].			
	F1/7	FPZ	2	Final Pause [s].			
	[4]	Cycle 3 p					
		Enl	3	Long Wash Phase [min].			
		5h3	42	Short Wash Phase [s].			
		PA3	4	Pause [s].			
		r 13	12	Rinse Phase Duration [s].			
		dr3	25	Drain [s].			
		FP3	2	Final Pause [s].			
		bł 3	8	Boiler Temperature Threshold for Cycle 3.			

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ZUC	Α		PROG 128		
drn	Drain par	ameters	family.		
	ldr	30	Initial Drain Phase Duration [s].		
	Fdr	100	Final Drain Phase Duration [s].		
	drt	<i>0</i>	Drain and cleaning mode.		
	[bd	0	Wash tank water change frequency control disabled.		
dPA	Set other	paramet	ers.		
	1PR	0	Initial Pause [s] (for ALL cycles).		
	dl y	3	Delay for the 2 nd wash pump [s].		
	Pdr	8	Drain Phase Duration at the end of washing phase [s].		
	rPA	8	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[F	<i>0</i>	Degrees Celsius display.		
	rit	8	During the rinse stage, the display shows the boiler temperature.		
HEP	Enter into HCP parameter family and set the following parameters.				
	5Er	1	Machine arranged for remote connection to PC.		
6. Switch OFF	and then swi	tch ON th	e machine.		
GEn	Enter into	GEn pa	rameter family.		
	d In	50	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).		
	rA i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		
7. Switch OFF	and then swit	tch ON th	e machine.		

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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	T12	Al		PROG 12
S	Switch OFF	and then swi	tch ON th	
	[FG			rameter family and set the following parameters:
		ŁУР	0	Hood Type and undercounter.
		bo i	0	Atmospheric boiler.
		doo	1	Manual Hood.
		dFL	1	Default values for Hood Type models.
		tre	1	SOFT START enabled.
		b_t	0	Boiler heaters and tank heater work simultaneously.
		b EF	75	Enable filling tank by means of rinsing cycles.
		LE5	8	Detergent level switches not enabled.
		U 1	9	Select user interface hood type/ undercounter model.
		rE	8	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
		Al r	1	Alarms enabled.
		ARG	8	Boiler electronic level sensor.
		FrG	8	Resin regeneration cycle forcing.
		5rU	10	Rinse water max. hardness.
		bPo	50	Boiler heating control.
3. S	Switch OFF	and then swi	tch ON th	e machine.
1. N		ory paramete		
-	FAC			rameter family and set the following parameters.
		PFI	78	Boiler Temperature Threshold.
		ЬН	96	Boiler temperature: alarm threshold.
		ьяJ —	4	Boiler Temperature Adjust.
		ЬР	1	Boiler standby function enabled.
		65E	2	Booster Function.
		bt d	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FF[63	Tub Temperature: Threshold.
		EH 1	75	Tank temperature: alarm threshold.
5. N		cycle paramet		
_	[4 1		parameter	
		Lal	1	Long Wash Phase [min].
		5h 1	10	Short Wash Phase [s].
		PR I	4	Pause [s].
		ril	12	Rinse Phase Duration [s].
		dr 1	12	Drain [s].
-	FN7	FP 1	4	Final Pause [s].
-	[75		parameter	
		E L Z	1	Long Wash Phase [min].
		5h2	40	Short Wash Phase [s].
		PA2	4	Pause [s].
		r 12	12	Rinse Phase Duration [s].
		dr2 503	15	Drain [s].
-	רעז	FP2	4	Final Pause [s].
-	[43		oarameter	
		En]	} cc	Long Wash Phase [min].
		5h3	32 u	Short Wash Phase [s].
		PA3	70	Pause [s].
		r 13	20	Rinse Phase Duration [s].
		dr3	20	Drain [s].
		FP3	4	Final Pause [s].
		6 4 d	65	Boiler Temperature Threshold for Cycle 3.

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Е	T12	Al		PROG 129
	drn	Drain pa	rameters t	amily.
		1dr	40	Initial Drain Phase Duration [s].
		Fdr	80	Final Drain Phase Duration [s].
		drt	8	Drain and cleaning mode.
		[bd	8	Wash tank water change frequency control disabled.
	dPA	Set othe	r paramet	ers.
		1PA	0	Initial Pause [s] (for ALL cycles).
		dl y	3	Delay for the 2 nd wash pump [s].
		Pdr	8	Drain Phase Duration at the end of washing phase [s].
		rPA	8	Duration of pause after the rinse cycle [s] (for ALL cycles).
		[F	8	Degrees Celsius display.
		rit	8	During the rinse stage, the display shows the boiler temperature.
		FLE	8	Termal Label mode disabled (Functions present with firmware version 4.04).
	HEP	Enter int	o HCP pa	rameter family and set the following parameters.
		5Er	1	Machine arranged for remote connection to PC.
6.		and then sw	itch ON th	e machine.
	<u>GE</u> n			rameter family.
		d in	90	Initial Detergent Dosage.
		r in	10	Initial Rinse Aid Dosage.
		dE t	18 1	Detergent dispenser works when WASH PUMP in activated.
		rA,	5 1	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.
7.	Switch OFF	and then sw	itch ON th	e machine.

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the l^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the l^{FL} family are not modified.

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ET12	AIT		PROG 130
. Switch OFF	and then swi	tch ON th	ne machine.
. [FG	Enter into	o CFG pa	rameter family and set the following parameters:
	ŁУР	0	Hood Type and undercounter.
	bo i	8	Atmospheric boiler.
	doo	1	Manual Hood.
	dFL	1	Default values for Hood Type models.
	tre	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.
	U I	9	Select user interface hood type/ undercounter model.
	rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	ARG	8	Boiler electronic level sensor.
	FrG	8	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
3. Switch OFF	and then swi	tch ON th	ne machine.
. Modify Fact	tory paramete	rs:	
FAC	Enter into	o FAC pai	rameter family and set the following parameters.
	bet	78	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяJ	4	Boiler Temperature Adjust.
	ЬP	1	Boiler standby function enabled.
	b5Ł	2	Booster Function.
	bt d	8	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[63	Tub Temperature: Threshold.
	EH,	75	Tank temperature: alarm threshold.
6. Modify the	cycle paramet	ers:	
[41	Cycle 1 p	paramete	rs family.
	Ln1	1	Long Wash Phase [min].
	5h 1	10	Short Wash Phase [s].
	PR I	4	Pause [s].
	ril	12	Rinse Phase Duration [s].
	dr 1	12	Drain [s].
	FP 1	4	Final Pause [s].
[75	Cycle 2 p	paramete	rs family.
	LnZ	1	Long Wash Phase [min].
	5h2	40	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	12	Rinse Phase Duration [s].
	dr2	12	Drain [s].
	FP2	4	Final Pause [s].
EY3	Cycle 3 p	oaramete	rs family.
	Enl	1	Long Wash Phase [min].
	5h3	32	Short Wash Phase [s].
	PA3	4	Pause [s].
	r i3	20	Rinse Phase Duration [s].
	dr 3	20	Drain [s].
	FP3	4	Final Pause [s].
	bt 3	65	Boiler Temperature Threshold for Cycle 3.

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E	T12	AIT		PROG 130
	drn	Drain pa	rameters t	amily.
		ldr	40	Initial Drain Phase Duration [s].
		Fdr	80	Final Drain Phase Duration [s].
		drt	8	Drain and cleaning mode.
		[bd	8	Wash tank water change frequency control disabled.
	dPA	Set othe	r paramet	ers.
		1PA	0	Initial Pause [s] (for ALL cycles).
		dl y	3	Delay for the 2 nd wash pump [s].
		Pdr	8	Drain Phase Duration at the end of washing phase [s].
		rPA	8	Duration of pause after the rinse cycle [s] (for ALL cycles).
		[F	8	Degrees Celsius display.
		rit	8	During the rinse stage, the display shows the boiler temperature.
		FLE	8	Termal Label mode disabled (Functions present with firmware version 4.04).
	HEP	Enter int	o HCP pa	rameter family and set the following parameters.
		5Er	1	Machine arranged for remote connection to PC.
6.		and then sw	itch ON th	e machine.
	<u>GE</u> n			rameter family.
		d In	90	Initial Detergent Dosage.
		r In	10	Initial Rinse Aid Dosage.
		dEt	18 1	Detergent dispenser works when WASH PUMP in activated.
		rA ı	5 1	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.
7.	Switch OFF	and then sw	itch ON th	e machine.

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the l^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the l^{FL} family are not modified.

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ET5 A			PROG 13
	and then swi		
[FG			rameter family and set the following parameters:
	ŁУР	0	Hood Type and undercounter.
	bo 1	0	Atmospheric boiler.
	doo	2	Front loading function.
	dFl	3	Default values for Undercounter models.
	trc	1	SOFT START enabled.
	b_t	0	Boiler heaters and tank heater work simultaneously.
	6 t F	75	Enable filling tank by means of rinsing cycles.
	LE5	0	Detergent level switches not enabled.
	U 1	8	ACTIVE function disabled.
	rE	0	Regeneration cycle disabled.
	Al r	1	Alarms enabled.
	ARG	8	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5 <i>rU</i>	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
Switch OFF	and then swi	tch ON th	ne machine.
	ory paramete		
FAE			rameter family and set the following parameters.
	PFI	82	Boiler Temperature Threshold.
	ЬН	96	Boiler temperature: alarm threshold.
	ьяJ	8	Boiler Temperature Adjust.
	ЬP		Boiler standby function enabled.
	65E	2	Booster Function.
	bt d	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[63	Tub Temperature: Threshold.
	EH 1	75	Tank temperature: alarm threshold.
	cycle paramet		
[41	Cycle 1 p		
	Lnl	1	Long Wash Phase [min].
	5h 1	5	Short Wash Phase [s].
	PR I	4	Pause [s].
	F ()	16	Rinse Phase Duration [s].
	dr 1	30	Drain [s].
F 11 7	FP 1	4	Final Pause [s].
[75	Cycle 2 p		•
	LnZ	75	Long Wash Phase [min].
	5h2	35	Short Wash Phase [s].
	PA2	4	Pause [s].
	r 12	15	Rinse Phase Duration [s].
	dr2	30	Drain [s].
F.43	FPZ	4	Final Pause [s].
EY3	Cycle 3 p		
	Enl	1	Long Wash Phase [min].
	5h3	31	Short Wash Phase [s].
	PR3	4	Pause [s].
	r 13	20	Rinse Phase Duration [s].
	Erb	40	Drain [s].
	FP3	4	Final Pause [s].
1	6 ± 3	65	Boiler Temperature Threshold for Cycle 3.

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E	ET5 /	\IIT		PROG 131
	drn	Drain parameters family.		
		ldr	30	Initial Drain Phase Duration [s].
		Fdr	80	Final Drain Phase Duration [s].
		drt	0	Drain and cleaning mode.
		[bd	0	Wash tank water change frequency control disabled.
	dPA	Set othe	r paramet	ers.
		1PA	5	Initial Pause [s] (for ALL cycles).
		dly	3	Delay for the 2 nd wash pump [s].
		Pdr	8	Drain Phase Duration at the end of washing phase [s].
		r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).
		[F	8	Degrees Celsius display.
		rit	0	During the rinse stage, the display shows the boiler temperature.
	HEP	Enter int	o HCP pa	rameter family and set the following parameters.
		5Er	1	Machine arranged for remote connection to PC.
6.	Switch OFF	and then sw	itch ON th	e machine.
	GEn	Enter int	o GEn pa	rameter family.
		d In	50	Initial Detergent Dosage.
		r In	10	Initial Rinse Aid Dosage.
		dEt	18 1	Detergent dispenser works when WASH PUMP in activated.
		r A .	5 1	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.
7.	Switch OFF	and then sw	itch ON th	e machine.

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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E	T5A	IDP		PROG 132		
2.	[FG	Enter into	CFG pa	rameter family and set the following parameters:		
		ŁYP	0	Hood Type and undercounter.		
		bo ,	8	Atmospheric boiler.		
		doo	2	Front loading function.		
		dFL	3	Default values for Undercounter models.		
		tre	1	SOFT START enabled.		
		b_t	8	Boiler heaters and tank heater work simultaneously.		
		b ŁF	75	Enable filling tank by means of rinsing cycles.		
		LE5	8	Detergent level switches not enabled.		
		<i>u</i> 1	8	ACTIVE function disabled.		
		r E	8	Regeneration cycle disabled.		
		Al r	1	Alarms enabled.		
		ARG	1	Boiler float level sensor.		
		FrG	8	Resin regeneration cycle forcing.		
		SrU	10	Rinse water max. hardness.		
		bPo	50	Boiler heating control.		
3.	Switch OFF a	nd then swi	tch ON th	e machine.		
4.	Modify Factor	y paramete	rs:			
	FRE		FAC par	ameter family and set the following parameters.		
		PF[82	Boiler Temperature Threshold.		
		ьн ,	96	Boiler temperature: alarm threshold.		
		ьяJ	0	Boiler Temperature Adjust.		
		ЬР	1	Boiler standby function enabled.		
		65E	2	Booster Function.		
		bŁd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.		
		FF[63	Tub Temperature: Threshold.		
		FH .	75	Tank temperature: alarm threshold.		
5.	Modify the cyc					
	[91		arameter			
		Lnl	1	Long Wash Phase [min].		
		5h 1	5	Short Wash Phase [s].		
		PR I	4	Pause [s].		
		r.1	15 20	Rinse Phase Duration [s].		
		dr 1	30	Drain [s].		
	FUD	FP 1	4	Final Pause [s].		
	[75		parameter	·		
		Ln2) 35	Long Wash Phase [min].		
		5h2 PA2	35 u	Short Wash Phase [s].		
			4 15	Pause [s].		
		r 12	16 20	Rinse Phase Duration [s].		
		dr2 FP2	30 4	Drain [s].		
	[43		•	Final Pause [s].		
	L 33	Ln3	arameter			
		En3 5h3	, 3 !	Long Wash Phase [min].		
		PA3	3 1 4	Short Wash Phase [s].		
		r 13	20	Pause [s].		
		rıs dr3	40	Rinse Phase Duration [s]. Drain [s].		
		FP3	4	Final Pause [s].		
		6£3	5 5	Boiler Temperature Threshold for Cycle 3.		
l		063	03	Duller reinperature Threshold for Cycle 3.		

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E	ET5A	AIDP		PROG 132
	drn	Drain pa	rameters	family.
		ldr	30	Initial Drain Phase Duration [s].
		Fdr	80	Final Drain Phase Duration [s].
		drt	0	Drain and cleaning mode.
		[bd]	0	Wash tank water change frequency control disabled.
	dPA	Set othe	r paramet	ers.
		1PA	5	Initial Pause [s] (for ALL cycles).
		dl y	3	Delay for the 2 nd wash pump [s].
		Pdr	8	Drain Phase Duration at the end of washing phase [s].
		r PA	8	Duration of pause after the rinse cycle [s] (for ALL cycles).
		[F	8	Degrees Celsius display.
		rit	8	During the rinse stage, the display shows the boiler temperature.
	HE P	Enter int	o HCP pa	rameter family and set the following parameters.
		5Er	9	Dishwasher with incorporated continuous water softener.
6.	Switch OFF	and then sw	itch ON th	e machine.
	GEn	Enter int	o GEn pa	rameter family.
		d In	50	Initial Detergent Dosage.
		r In	10	Initial Rinse Aid Dosage.
		dEt	18 1	Detergent dispenser works when WASH PUMP in activated.
		rA .	5	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.
7.	Switch OFF	and then sw	itch ON th	ne machine.

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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ET5A	MUP	WS	PROG 13
. Switch OFF	and then swi	itch ON th	ne machine.
. [FG	Enter into	o CFG pa	arameter family and set the following parameters:
	F Ab	0	Hood Type and undercounter.
	bo ,	0	Atmospheric boiler.
	doo	2	Front loading function.
	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	8	Detergent level switches not enabled.
	<i>U 1</i>	8	ACTIVE function disabled.
	rE	8	Regeneration cycle disabled.
	Al r	1	Alarms enabled.
	ARG	1	Boiler float level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	ьPo	50	Boiler heating control.
. Switch OFF	and then swi	itch ON th	ne machine.
. Modify Fact	ory paramete	ers:	
FAC	Enter into	o FAC pai	rameter family and set the following parameters.
	bet	82	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяJ	8	Boiler Temperature Adjust.
	ЬP	1	Boiler standby function enabled.
	b5Ł	2	Booster Function.
	btd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[63	Tub Temperature: Threshold.
	EH,	75	Tank temperature: alarm threshold.
	cycle paramet	ters:	
[41	Cycle 1 p	oarametei	rs family.
	Lnl	1	Long Wash Phase [min].
	5h 1	5	Short Wash Phase [s].
	PA I	4	Pause [s].
	ril	15	Rinse Phase Duration [s].
	dr 1	30	Drain [s].
	FP 1	4	Final Pause [s].
[75	Cycle 2 p	oarametei	rs family.
	LnZ	1	Long Wash Phase [min].
	5h2	35	Short Wash Phase [s].
	PR2	4	Pause [s].
	r 12	15	Rinse Phase Duration [s].
	dr2	30	Drain [s].
	FP2	4	Final Pause [s].
EY3	Cycle 3 p	oarametei	rs family.
	Enl	1	Long Wash Phase [min].
	5h3	31	Short Wash Phase [s].
	PR3	4	Pause [s].
	r 13	20	Rinse Phase Duration [s].
	dr3	40	Drain [s].
	FP3	4	Final Pause [s].
	bt 3	65	Boiler Temperature Threshold for Cycle 3.

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E	ET5A	AIDP	WS	PROG 133
	drn	Drain pa	rameters	family.
		ldr	30	Initial Drain Phase Duration [s].
		Fdr	80	Final Drain Phase Duration [s].
		drt	0	Drain and cleaning mode.
		[bd	0	Wash tank water change frequency control disabled.
	dPA	Set othe	r paramet	ders.
		1PR	5	Initial Pause [s] (for ALL cycles).
		dl y	3	Delay for the 2 nd wash pump [s].
		Pdr	8	Drain Phase Duration at the end of washing phase [s].
		r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).
		[F	8	Degrees Celsius display.
		rit	8	During the rinse stage, the display shows the boiler temperature.
	HEP	Enter into HCP parameter family and set the following parameters.		
		5Er	9	Dishwasher with incorporated continuous water softener.
6.	Switch OFF	and then sw	itch ON th	ne machine.
	ũE n	Enter int	o GEn pa	rameter family.
		d In	50	Initial Detergent Dosage.
		r In	10	Initial Rinse Aid Dosage.
		dEt	18 1	Detergent dispenser works when WASH PUMP in activated.
		rA .	5 1	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.
7.	Switch OFF	and then sw	itch ON th	ne machine.

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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	ADDF and then swi		W / EUCADDROW	PROG 134
. [F [rameter family and set the following parameters:	
, .	Ł YP		Hood Type and undercounter.	
	bo i	0	Atmospheric boiler.	
	doo	2	Front loading function.	
	dFl	3	Default values for Undercounter models.	
	tre	1	SOFT START enabled.	
	b. E	;	Tank heater works only if boiler temperature reached.	
	bl F	75	Enable filling tank by means of rinsing cycles.	
	LES	0	Detergent level switches not enabled.	
	<i>!!!</i>	9	Select user interface hood type/ undercounter model.	
	r E	0	Regeneration cycle disabled.	
	Al r	0	Alarms not enabled.	
	,,, , AAG	0	Boiler electronic level sensor.	
	FrG	0		
	5rU	10	Resin regeneration cycle forcing. Rinse water max. hardness.	
	bPo	50		
. Switch OFF	F and then swi		Boiler heating control.	
	tory paramete		ic maximic.	
FAE			rameter family and set the following parameters.	
774	bt [84	Boiler Temperature Threshold.	
	ьн ,	96	Boiler temperature: alarm threshold.	
	ЬЯЈ	0	Boiler Temperature Adjust.	
	ь <i>Р</i>	1	Boiler standby function enabled.	
	65£	ż	Booster Function.	
	bt d	3	During stand-by boiler is kept at lower temperature than	Temperature Threshold
	££[73	Tub Temperature: Threshold.	Tomporatare Threshold.
	EEH	2	Tub Temperature: HISTERESIS.	
	EH ,	80	Tank temperature: alarm threshold.	
. Modify the	cycle paramet		Tarik temperature, alam tineeneta.	
[41	Cycle 1 p		rs family.	
	Lnl	0	Long Wash Phase [min].	
	5h 1	57	Short Wash Phase [s].	
	PA I	4	Pause [s].	
	r.1	12	Rinse Phase Duration [s].	
	dr 1	25	Drain [s].	
	FP I	2	Final Pause [s].	
[45	Cycle 2 p	aramete		
	LnZ	2	Long Wash Phase [min].	
	5h2	42	Short Wash Phase [s].	
	PA2	4	Pause [s].	
	r 15	12	Rinse Phase Duration [s].	
	dr 2	25	Drain [s].	
	FP2	2	Final Pause [s].	
[43	Cycle 3 p			
	Enl	1	Long Wash Phase [min].	
	5h3	42	Short Wash Phase [s].	
	PA3	4	Pause [s].	
	r 13	12	Rinse Phase Duration [s].	
	, , ,			
	dr3 FP3	25	Drain [s]. Final Pause [s].	

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ZUC	ADDI	RO\	N / EUCADDROW	PROG 134		
drn	Drain pa	Drain parameters family.				
	ldr	30	Initial Drain Phase Duration [s].			
	Fdr	100	Final Drain Phase Duration [s].			
	drt	0	Drain and cleaning mode.			
	[bd]	0	Wash tank water change frequency control disabled.			
dPA	Set othe	r paramet	ers.			
	1PR	0	Initial Pause [s] (for ALL cycles).			
	dl y	3	Delay for the 2 nd wash pump [s].			
	Pdr	8	Drain Phase Duration at the end of washing phase [s].			
	r PA	8	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[F	8	Degrees Celsius display.			
	rit	8	During the rinse stage, the display shows the boiler temp	erature.		
HE P	Enter into HCP parameter family and set the following parameters.					
	5Er	1	Machine arranged for remote connection to PC.			
Switch OFF	and then sw	itch ON th	e machine.			
GEn	Enter int	o GEn pa	ameter family.			
	d In	50	Initial Detergent Dosage.			
	r In	10	Initial Rinse Aid Dosage.			
	dEt	5	Detergent dispensing during the wash cycle (loading duri	ing wash stage).		
	rA .	4	Rinse aid dispensing during the rinse cycle (loading during	ng boiler filling stage).		
'. Switch OFF	and then sw	itch ON th	e machine.			

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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F	FUCA3DD PROG 135						
1.							
2.	[FG	Enter into		rameter family and set the following parameters:			
		ŁУР	0	Hood Type and undercounter.			
		bo 1	0	Atmospheric boiler.			
		doo	2	Front loading function.			
		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	24	Select user interface for LS5.			
		rE	<i>0</i>	Regeneration cycle disabled.			
		Al r	8	Alarms not enabled.			
		ARG	8	Boiler electronic level sensor.			
		FrG	0	Resin regeneration cycle forcing.			
		5rU	10	Rinse water max. hardness.			
		bPo	50	Boiler heating control.			
3.	Switch OFF	and then swit	tch ON th	ne machine.			
4.		ory parameter	rs:				
	FAC	Enter into	FAC par	rameter family and set the following parameters.			
		PF[80	Boiler Temperature Threshold.			
		ьн ,	96	Boiler temperature: alarm threshold.			
		ьяJ	8	Boiler Temperature Adjust.			
		ЬP	1	Boiler standby function enabled.			
		b5Ł	2	Booster Function.			
		bŁd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.			
		££[63	Tub Temperature: Threshold.			
		FH ,	75	Tank temperature: alarm threshold.			
5.	Modify the	cycle paramet	ers:				
	[41	Cycle 1 p	arameter	rs family.			
		Lnl	1	Long Wash Phase [min].			
		5h 1	42	Short Wash Phase [s].			
		PR I	4	Pause [s].			
		ril	12	Rinse Phase Duration [s].			
		dr 1	30	Drain [s].			
		FP 1	2	Final Pause [s].			
	[72	Cycle 2 p	arameter	rs family.			
		LnZ	2	Long Wash Phase [min].			
		5h2	42	Short Wash Phase [s].			
		PA2	4	Pause [s].			
		r 12	12	Rinse Phase Duration [s].			
		dr2	30	Drain [s].			
		FPZ	2	Final Pause [s].			
	EY3	Cycle 3 p	arameter	rs family.			
		Enl	2	Long Wash Phase [min].			
		5h3	42	Short Wash Phase [s].			
		PA3	4	Pause [s].			
		r 13	12	Rinse Phase Duration [s].			
		dr 3	30	Drain [s].			
		FP3	2	Final Pause [s].			
		bł 3	0	Boiler Temperature Threshold for Cycle 3.			

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FUC	A3DI)	PROG 135	
drn	Drain par	ameters	family.	
	ldr	30	Initial Drain Phase Duration [s].	
	Fdr	100	Final Drain Phase Duration [s].	
	drt	0	Drain and cleaning mode.	
	[bd	0	Wash tank water change frequency control disabled.	
dPA	Set other	paramet	ers.	
	1PR	0	Initial Pause [s] (for ALL cycles).	
	dl y	3	Delay for the 2 nd wash pump [s].	
	Pdr	8	Drain Phase Duration at the end of washing phase [s].	
	rPA	<i>0</i>	Duration of pause after the rinse cycle [s] (for ALL cycles).	
	[F	<i>0</i>	Degrees Celsius display.	
	rit	<i>8</i>	During the rinse stage, the display shows the boiler temperature.	
HEP	Enter into HCP parameter family and set the following parameters.			
	5Er	1	Machine arranged for remote connection to PC.	
6. Switch OFF	and then swi	tch ON th	e machine.	
GEn	Enter into	GEn pa	rameter family.	
	d In	50	Initial Detergent Dosage.	
	r In	10	Initial Rinse Aid Dosage.	
	dEt	5	Detergent dispensing during the wash cycle (loading during wash stage).	
	rA i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).	
7. Switch OFF	and then swi	tch ON th	e machine.	

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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NUC	AID	υG	PROG 13
	and then swi		
. [FG	Enter into	o CFG pa	rameter family and set the following parameters:
	£ YP	0	Hood Type and undercounter.
	bo i	0	Atmospheric boiler.
	doo	2	Front loading function.
	dFL	3	Default values for Undercounter models.
	tre	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>	24	Select user interface for LS5.
	rE	0	Regeneration cycle disabled.
	Al r	0	Alarms not enabled.
	AAG	0	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	ьPo	50	Boiler heating control.
. Switch OFF	and then swi	itch ON th	ne machine.
	ory paramete	ers:	
FRE	Enter inte	o FAC pai	rameter family and set the following parameters.
	PFI	80	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ьяJ	0	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	b5Ł	2	Booster Function.
	błd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[63	Tub Temperature: Threshold.
	FH ,	75	Tank temperature: alarm threshold.
	cycle paramet	ters:	
[41	Cycle 1 p	paramete	rs family.
	Lnl	1	Long Wash Phase [min].
	5h 1	12	Short Wash Phase [s].
	PR 1	4	Pause [s].
	ril	12	Rinse Phase Duration [s].
	dr 1	25	Drain [s].
	FP 1	2	Final Pause [s].
[75		oarametei	
	LnZ	2	Long Wash Phase [min].
	5h2	42	Short Wash Phase [s].
	PR2	4	Pause [s].
	2 ر	12	Rinse Phase Duration [s].
	dr2	30	Drain [s].
	FP2	2	Final Pause [s].
£43		oarametei	
	End	2	Long Wash Phase [min].
	5h3	42	Short Wash Phase [s].
	PR3	4	Pause [s].
	r 13	12	Rinse Phase Duration [s].
	dr3	30	Drain [s].
	FP3	2	Final Pause [s].
	bt 3	0	Boiler Temperature Threshold for Cycle 3.

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NUC	A1D	DG	PROG 136		
drn	Drain pa	rameters	family.		
	ldr	30	Initial Drain Phase Duration [s].		
	Fdr	100	Final Drain Phase Duration [s].		
	drt	0	Drain and cleaning mode.		
	[bd	0	Wash tank water change frequency control disabled.		
dPA	Set othe	Set other parameters.			
	1PA	0	Initial Pause [s] (for ALL cycles).		
	dly	3	Delay for the 2 nd wash pump [s].		
	Pdr	8	Drain Phase Duration at the end of washing phase [s].		
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).		
	[F	8	Degrees Celsius display.		
	rit	0	During the rinse stage, the display shows the boiler temperature.		
HEP	Enter into HCP parameter family and set the following parameters.				
	5Er	1	Machine arranged for remote connection to PC.		
6. Switch OF	F and then sw	itch ON th	ne machine.		
GEn	Enter int	o GEn pa	rameter family.		
	d In	50	Initial Detergent Dosage.		
	r In	10	Initial Rinse Aid Dosage.		
	dEŁ	5	Detergent dispensing during the wash cycle (loading during wash stage).		
	rA i	4	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).		
7. Switch OF	F and then sw	itch ON th	ne machine.		

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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NUC	1GM	S	PROG 137
	F and then swi		
. EFG	Enter into	CFG pa	rameter family and set the following parameters:
	£ YP	0	Hood Type and undercounter.
	bo ,	1	Pressure boiler.
	doo	2	Front loading function.
	dFL	3	Default values for Undercounter models.
	tre	8	Disabled (for this appliance SOFT START is NOT possible).
	b_t	1	Tank heater works only if boiler temperature reached.
	bt F	8	The tank is filled into the traditional way.
	LE5	8	Detergent level switches not enabled.
	ម រ	24	Select user interface for LS5.
	r E	8	Regeneration cycle disabled.
	Al r	<i>8</i>	Alarms not enabled.
	AAG	8	Boiler electronic level sensor.
	FrG	8	Resin regeneration cycle forcing.
	SrU	10	Rinse water max. hardness.
	ьРо	50	Boiler heating control.
. Switch OFF	F and then swi	tch ON th	•
. Modify Fac	tory paramete	rs:	
FAE	Enter into	o FAC par	ameter family and set the following parameters.
	PF[82	Boiler Temperature Threshold.
	ьн ,	95	Boiler temperature: alarm threshold.
	ьяJ	3	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	b5Ł	2	Booster Function.
	bŁd	3	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	tt[63	Tub Temperature: Threshold.
	ŁH,	75	Tank temperature: alarm threshold.
. Modify the	cycle paramet	ers:	•
[4]		arameter	s family.
	Lai	1	Long Wash Phase [min].
	5h 1	12	Short Wash Phase [s].
	PA I	4	Pause [s].
	r 11	14	Rinse Phase Duration [s].
	dr 1	30	Drain [s].
	FP 1	0	Final Pause [s].
[45		parameter	
-	LnZ	2	Long Wash Phase [min].
	5h2	40	Short Wash Phase [s].
	PA2	4	Pause [s].
	ح ، ح	15	Rinse Phase Duration [s].
	dr 2	30	Drain [s].
	FP2	0	Final Pause [s].
[43		parameter	
	Enl	2	Long Wash Phase [min].
	5h3	40	Short Wash Phase [s].
	PA3	4	Pause [s].
	r 13	15	Rinse Phase Duration [s].
	dr3	30	Drain [s].
	673 FP3	0 0	
			Final Pause [s].
	bt 3	0	Boiler Temperature Threshold for Cycle 3.

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NU	JC ⁻	1GM	IS	PROG 137			
d	Irn	Drain pa	rameters	family.			
		ldr	30	Initial Drain Phase Duration [s].			
		Fdr	100	Final Drain Phase Duration [s].			
		drt	<i>0</i>	Drain and cleaning mode.			
		[bd	0	Wash tank water change frequency control disabled.			
d	IPA	Set other parameters.					
		1PA	0	Initial Pause [s] (for ALL cycles).			
		dl y	3	Delay for the 2 nd wash pump [s].			
		Pdr 0		Drain Phase Duration at the end of washing phase [s].			
		rPA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).			
		[F	0	Degrees Celsius display.			
		rit	0	During the rinse stage, the display shows the boiler temperature.			
Н	1EP	Enter into HCP parameter family and set the following parameters.					
		5Er	1	Machine arranged for remote connection to PC.			
6. Sw	itch OFF	and then sw	ritch ON th	ne machine.			
ធ	iEn	Enter int	to GEn pa	rameter family.			
		d In	165	Initial Detergent Dosage.			
		r In	<i>0</i>	Initial Rinse Aid Dosage.			
		dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE in activated.			
		rA,	5 1	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.			
7. Sw	itch OFF	and then sw	ritch ON th	ne machine.			

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter $d^{F}L$, all the parameters (except those belonging to the $L^{F}L$ family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the $L^{F}L$ family are not modified.

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NUC	3/K	<u>UC</u>	3 / EUC3 PROG 1	13
	F and then swit	tch ON th	ne machine.	
. [FG	Enter into	CFG pa	rameter family and set the following parameters:	
	Ł YP	0	Hood Type and undercounter.	
	bo ı	1	Pressure boiler.	
	doo	2	Front loading function.	
	dFL	3	Default values for Undercounter models.	
	tre	1	SOFT START enabled.	
	b_E	1	Tank heater works only if boiler temperature reached.	
	b ef	<i>0</i>	The tank is filled into the traditional way.	
	LE5	8	Detergent level switches not enabled.	
	<i>u 1</i>	24	Select user interface for LS5.	
	rE	<i>0</i>	Regeneration cycle disabled.	
	Al r	0	Alarms not enabled.	
	AAG	0	Boiler electronic level sensor.	
	FrG	0	Resin regeneration cycle forcing.	
	5rU	10	Rinse water max. hardness.	
	bPo	50	Boiler heating control.	
Switch OF	F and then swit			
	ctory parameter		is maximo.	
FAE			rameter family and set the following parameters.	
	bel	84	Boiler Temperature Threshold.	
	ьн ,	96	Boiler temperature: alarm threshold.	
	ЬЯJ	3	Boiler Temperature Adjust.	
	ь <i>Р</i>	1	Boiler standby function enabled.	
	65E	خ	Booster Function.	
	bt d	3		
	tt[63	During stand-by boiler is kept at lower temperature than Temperature Threshold.	
			Tub Temperature: Threshold.	
NA116 - 41	ŁH ,	75	Tank temperature: alarm threshold.	
Modify the	cycle paramet		ra family	
631	Cycle 1 p			
	Ln 1	1	Long Wash Phase [min].	
	5h 1	40	Short Wash Phase [s].	
	PA I	4	Pause [s].	
	r 1 1	15	Rinse Phase Duration [s].	
1	dr 1	30	Drain [s].	
	r n 1		Final Dayse [a]	
F =	FP 1	0	Final Pause [s].	
CAS	Cycle 2 p	arameter	rs family.	
[75]	Cycle 2 p	earameter	rs family. Long Wash Phase [min].	
[75	Cycle 2 p L n Z 5 h Z	earameter 2 40	rs family.	
[35	Cycle 2 p L n Z Sh Z P R Z	parameter 2 40 4	rs family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s].	
<u> </u>	Cycle 2 p L n Z 5 h Z	earameter 2 40	rs family. Long Wash Phase [min]. Short Wash Phase [s].	
<u> </u>	Cycle 2 p L n Z S h Z P R Z r i Z d r Z	parameter 2 40 4	rs family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s].	
£45	Cycle 2 p L n Z S h Z P R Z r ı Z	parameter 2 40 4	rs family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s].	
£ 45	Cycle 2 p L n Z S h Z P R Z r i Z d r Z	parameter 2 40 40 4 16 30 0	rs family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s].	
	Cycle 2 p LnZ ShZ PAZ r iZ drZ FPZ	parameter 2 40 40 4 16 30 0	rs family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s].	
	Cycle 2 p Ln2 Sh2 PR2 r 12 dr2 FP2 Cycle 3 p	parameter 40 416 30 0 parameter	rs family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. rs family.	
	Cycle 2 p Ln2 Sh2 PR2 r i2 dr2 FP2 Cycle 3 p	parameter 2 40 4 16 30 0 parameter	rs family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. rs family. Long Wash Phase [min].	
	Cycle 2 p Ln2 Sh2 PR2 r i2 dr2 FP2 Cycle 3 p Ln3 Sh3	parameter 2 40 4 16 30 0 parameter	rs family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. rs family. Long Wash Phase [min]. Short Wash Phase [s].	
	Cycle 2 p Ln2 Sh2 PR2 r i2 dr2 FP2 Cycle 3 p Ln3 Sh3 PR3 r i3	parameter 2 40 4 16 30 0 parameter 2 40 4 16	rs family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. rs family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s].	
	Cycle 2 p Ln2 Sh2 PR2 r i2 dr2 FP2 Cycle 3 p Ln3 Sh3 PR3	parameter 2 40 4 16 30 0 parameter	rs family. Long Wash Phase [min]. Short Wash Phase [s]. Pause [s]. Rinse Phase Duration [s]. Drain [s]. Final Pause [s]. rs family. Long Wash Phase [min]. Short Wash Phase [s].	

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1	IUC	3 / K	UC	3 / EUC3 PROG 138		
	drn	Drain pa	rameters	family.		
		ldr	30	Initial Drain Phase Duration [s].		
		Fdr	100	Final Drain Phase Duration [s].		
		drt	0	Drain and cleaning mode.		
		[bd	40	Number of wash cycles possible between one drain cycle and the next.		
	dPA	Set other	r paramet	ers.		
		IPA	0	Initial Pause [s] (for ALL cycles).		
		dl y	3	Delay for the 2 nd wash pump [s].		
		Pdr	8	Drain Phase Duration at the end of washing phase [s]. Duration of pause after the rinse cycle [s] (for ALL cycles).		
		r PA	0			
		[F	8	Degrees Celsius display.		
		rit	0	During the rinse stage, the display shows the boiler temperature.		
	HEP	Enter into HCP parameter family and set the following parameters.				
		5Er	1	Machine arranged for remote connection to PC.		
6.	Switch OFF	and then swi	itch ON th	ue machine.		
	GEn	Enter into	o GEn pa	rameter family.		
		d In	165	Initial Detergent Dosage.		
		r In	8	Initial Rinse Aid Dosage.		
		dEt	182	Detergent dispenser works when LOAD SOLENOID VALVE in activated.		
		rA ,	5 1	Rinse Aid dispenser works when LOAD SOLENOID VALVE in activated.		
7.	Switch OFF	and then swi	itch ON th	ue machine.		

To set the board parameters, carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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Switch OFF and then switch ON the machine. 2. CFG Enter into CFG parameter family and set the following parameters: LYP Pot Washer. ba	ZPPW	V/AF	PV	V / EPPW (EX PW1 / PW1H) PROG 139		
LyP				,		
Atmospheric boiler. doo 2 Front loading function. dft 2 Default values for Pot Washer models. b.t. C Disabled (for this appliance SOFT START is NOT possible). b.t. Tank heater works only if boiler temperature reached. b.t. Tank heater works only if boiler temperature reached. b.t. Tank heater works only if boiler temperature reached. b.t. Tank heater works only if boiler temperature reached. b.t. Tank heater works only if boiler temperature reached. b.t. Tank heater works only if boiler temperature reached. b.t. Tank heater works only if boiler temperature reached. b.t. Tank heater works only if boiler temperature reached. c. Tank heater works only if boiler temperature model. c. Tank tank heater max. hardness heater max. hardness. b.t. Tank and the switch ON the machine. b. Modify Factory parameters: f. Talk boiler temperature alarm threshold. b.t. Talk boiler temperature alarm threshold. b.t. Talk boiler temperature alarm threshold. b.t. Talk boiler standby function enabled. b.t. Talk temperature: alarm threshold. c. J. J. Talk temperature: alarm threshold. b.t. Talk temperature: alarm threshold. b.t. Talk temperature: alarm threshold. c. J. J. Talk temperature: alarm threshold. b.t. Talk temperature: alarm threshold. c. J. J. Talk temperature: alarm threshold. c. J. J. Talk temperature: alarm threshold. c. J. J. J. Talk temperature: alarm threshold. c. J.	2. [F [Enter into	CFG pa	rameter family and set the following parameters:		
### According function. ### Ac		F Ab	1	Pot Washer.		
AFIL C		boi	0	Atmospheric boiler.		
Bolier Temperature Threshold. Bolier Temperature Threshold.		doo	2	Front loading function.		
b b		dFL	2	Default values for Pot Washer models.		
Bit F		tre	8	Disabled (for this appliance SOFT START is NOT possible).		
LES		b_t	1			
LES		bt F	0	The tank is filled into the traditional way.		
### Select user interface hood type/ undercounter model. ### Ri		LE5	8	Detergent level switches not enabled.		
### Company of the properties		ម រ	9	Select user interface hood type/ undercounter model.		
### BRILL ### Boiler electronic level sensor. ### Fr. U ### Boiler electronic level sensor. ### Sr. U ### Solier heating control. ### Switch OFF and then switch ON the machine. ### Solier heating control. ### Solier heating control. ### Solier temperature Threshold. ### Boiler Temperature Threshold. ### Boiler Temperature Adjust. ### Boiler Temperature Threshold. ### Boiler Temperature Threshold. ### Boiler Temperature Threshold. ### Tub Temperature: Threshold. ### Tub Temperature: Threshold. #### Tub Temperature: alarm threshold. #### Tub Temperature: alarm threshold. #### Boiler Temperature: alarm threshold. #### Tub Temperature: alarm threshold. #### Tub Temperature: alarm threshold. ##### Tub Temperature: alarm threshold. ##### Tub Temperature: alarm threshold. ###### Tub Temperature: alarm threshold. ########### Tub Temperature: alarm threshold. ###################################		rE	8			
Fr L		Al c	1	Alarms enabled.		
S-r U 10 Rinse water max. hardness. bPo 50 Boiler heating control. Switch OFF and then switch ON the machine. Modify Factory parameters: FRC Enter into FAC parameter family and set the following parameters. bbt 18 Boiler Temperature Threshold. bH 1 95 Boiler temperature alarm threshold. bH 2 Hooler temperature Adjust. bP 1 Boiler standby function enabled. b5t 4 Booster Function. bbt 0 During stand-by boiler is kept at lower temperature than Temperature Threshold. btt 53 Tub Temperature: Threshold. btt 53 Tub Temperature: alarm threshold. bH 1 75 Tank temperature: alarm threshold. bTu 1 2 Long Wash Phase [min]. 5h 1 34 Short Wash Phase [s]. PR 1 4 Pause [s]. r 1 20 Rinse Phase Duration [s]. dr 1 1 2 Drain [s]. FP 1 0 Final Pause [s]. FP 2 4 Pause [s]. r 2 2 8 Rinse Phase Duration [s]. dr 2 12 Drain [s]. FP 3 Cycle 3 parameters family. Ln 3 Short Wash Phase [min]. Sh 4 Pause [s]. r 2 2 Rinse Phase Duration [s]. dr 3 Pause [s]. FP 3 Cycle 3 parameters family. Ln 3 B Long Wash Phase [min]. Sh 3 Short Wash Phase [s]. PR 3 Pause [s].		AAG	8	Boiler electronic level sensor.		
Switch OFF and then switch ON the machine.		FrG	8	Resin regeneration cycle forcing.		
3. Switch OFF and then switch ON the machine. 5. Modify Factory parameters: FRC		ระบ	10	Rinse water max. hardness.		
3. Switch OFF and then switch ON the machine. 1. Modify Factory parameters: FRE Enter into FAC parameter family and set the following parameters. 18 Boiler Temperature Threshold. 19 Boiler Temperature alarm threshold. 19 Boiler Temperature Adjust. 19 Boiler Standby function enabled. 10 During stand-by boiler is kept at lower temperature than Temperature Threshold. 10 Boiler Temperature and the sept at lower temperature than Temperature Threshold. 10 Boiler Temperature and the sept at lower temperature than Temperature Threshold. 10 Boiler Temperature: Threshold. 11 Boiler Temperature: Threshold. 12 Boiler Temperature: Threshold. 13 Tank temperature: alarm threshold. 14 Cycle 1 parameters: 15 Cycle 1 parameters family. 15 And 1 And 1 Boiler Temperature: alarm threshold. 16 And 1 Boiler Temperature alarm threshold. 17 Tank temperature: alarm threshold. 18 Long Wash Phase [min]. 19 And 1 Boiler Temperature alarm threshold. 19 Cycle 1 parameters family. 10 And 1 Boiler Temperature alarm threshold. 10 Dirinal Pause [s]. 10 Final Pause [s]. 11 Cycle 2 parameters family. 12 Drain [s]. 13 Boiler Temperature alarm threshold. 14 Drain [s]. 15 Drain [s]. 16 Cycle 2 parameters family. 17 Drain [s]. 18 Drain [s]. 18 Drain [s]. 19 Cycle 3 parameters family. 19 Drain [s]. 10 Drain [s]. 10 Drain [s]. 11 Drain [s]. 12 Drain [s]. 12 Drain [s]. 13 Drain [s]. 14 Drain [s]. 15 Drain [s]. 15 Drain [s].		bPo	50	Boiler heating control.		
FRC Enter into FAC parameter family and set the following parameters. bli 18 Boiler Temperature Threshold. bli 96 Boiler temperature: alarm threshold. bli 49 Boiler standby function enabled. bli 49 Booster Function. bli 40 During stand-by boiler is kept at lower temperature than Temperature Threshold. bli 41 Boiler standby boiler is kept at lower temperature than Temperature Threshold. bli 63 Tub Temperature: Threshold. bli 75 Tank temperature: alarm threshold. i. Modify the cycle parameters: [YY	3. Switch OF	F and then swit	tch ON th	e machine.		
bet 18 Boiler Temperature Threshold. bH 96 Boiler temperature alarm threshold. bRJ 4 Boiler Temperature Adjust. bP 1 Boiler standby function enabled. b5t 4 Booster Function. btd 0 During stand-by boiler is kept at lower temperature than Temperature Threshold. ttt 63 Tub Temperature: Threshold. ttt 63 Tub Temperature: Threshold. ttt 63 Tub Temperature: Threshold. ttt 75 Tank temperature: alarm threshold. Modify the cycle parameters [4 Y Cycle 1 parameters family. Lol 2 Long Wash Phase [min]. Sh 34 Short Wash Phase [s]. PR 4 Pause [s]. Final Pause [s]. Final Pause [s]. Lo2 5 Long Wash Phase [min]. Sh 34 Short Wash Phase [min]. Sh 37 Short Wash Phase [s]. PR 4 Pause [s]. Final Pause [s]. Fi		tory parameter	rs:			
bH bH bBJ y Boiler temperature: alarm threshold. bBJ y Boiler Temperature Adjust. bP l Boiler standby function enabled. b5t y Booster Function. bbt d D During stand-by boiler is kept at lower temperature than Temperature Threshold. ttl 53 Tub Temperature: Threshold. ttl 53 Tub Temperature: alarm threshold. i. Modify the cycle parameters i. Modify the cycle parameters family. Lo 1 2 Long Wash Phase [min]. 5h 1 34 Short Wash Phase [s]. PR 1 4 Pause [s]. r 1 20 Rinse Phase Duration [s]. dr 1 12 Drain [s]. FP 1 0 Final Pause [s]. [YY Cycle 2 parameters family. Lo 2 5 Long Wash Phase [min]. 5h 2 34 Short Wash Phase [s]. PR 2 4 Pause [s]. r 2 20 Rinse Phase Duration [s]. dr 2 12 Drain [s]. FP 2 0 Final Pause [s]. [YY Cycle 3 parameters family. Lo 3 B Long Wash Phase [min]. 5h 3 34 Short Wash Phase [min]. 5h 3 34 Short Wash Phase [s]. PR 3 4 Pause [s]. r 3 20 Rinse Phase Duration [s]. PR 3 4 Pause [s]. r 3 20 Rinse Phase Duration [s]. PR 3 4 Pause [s]. PR 3 5 Pause [s]. PR 3 6 Pause [s]. PR 3 6 Pause [s]. PR 3 7 Pause [s].	FRE	Enter into	FAC pai			
bRJ Y Boiler Temperature Adjust. bP I Boiler standby function enabled. b5tk Y Booster Function. bbtd 0 During stand-by boiler is kept at lower temperature than Temperature Threshold. btt		błľ	78	Boiler Temperature Threshold.		
bP		ьн ,	95	Boiler temperature: alarm threshold.		
b5t		ьяJ	4	Boiler Temperature Adjust.		
bt d		ЬР	1	Boiler standby function enabled.		
### Tub Temperature: Threshold. ### Tub Temperature: Alarm threshold. Emperature: Alarm threshold.		b5Ł	4	Booster Function.		
### Tank temperature: alarm threshold. Modify the cycle parameters:	bt d During stand-by boiler is kept at lower temperature than Temperature			During stand-by boiler is kept at lower temperature than Temperature Threshold.		
Modify the cycle parameters: (Y1		££[63	Tub Temperature: Threshold.		
Cycle 1 parameters family. Ln 1 2 Long Wash Phase [min]. Sh 1 34 Short Wash Phase [s]. PR 1 4 Pause [s]. PR 1 4 Pause [s]. I 20 Rinse Phase Duration [s]. I 12 Drain [s]. I 13 B Long Wash Phase [min]. Sh3 34 Short Wash Phase [s]. PR3 4 Pause [s]. PR3 4 Pause [s]. PR3 4 Pause Phase Duration [s]. Drain [s].		£H ,	75	Tank temperature: alarm threshold.		
Ln Z Long Wash Phase [min]. Sh 34 Short Wash Phase [s]. PR 4 Pause [s]. r 20 Rinse Phase Duration [s]. dr 12 Drain [s]. FP 0 Final Pause [s]. Cycle 2 parameters family. Ln2		cycle paramet	ers:			
Sh I 34 Short Wash Phase [s]. PR I 4 Pause [s]. r I 20 Rinse Phase Duration [s]. dr I 12 Drain [s]. FP I 0 Final Pause [s]. EY2 Cycle 2 parameters family. L n2 5 Long Wash Phase [min]. Sh2 34 Short Wash Phase [s]. PR2 4 Pause [s]. r r 2 20 Rinse Phase Duration [s]. L n3 8 Long Wash Phase [min]. Sh3 34 Short Wash Phase [s]. PR3 4 Pause [s]. r r 3 20 Rinse Phase Duration [s]. dr 3 12 Drain [s].	[7]			•		
PRI Y Pause [s]. I I I I I I I I I I I I I I I I I I I			2	Long Wash Phase [min].		
### ##################################			94	Short Wash Phase [s].		
### ##################################		PA I		Pause [s].		
FPI D Final Pause [s]. Cycle 2 parameters family. Ln2		ril		Rinse Phase Duration [s].		
Cycle 2 parameters family. Ln2		_ ,	_			
Lo2 5 Long Wash Phase [min]. 5h2 34 Short Wash Phase [s]. PR2 4 Pause [s]. r 12 20 Rinse Phase Duration [s]. dr2 12 Drain [s]. FP2 0 Final Pause [s]. Cycle 3 parameters family. Lo3 8 Long Wash Phase [min]. 5h3 34 Short Wash Phase [s]. PR3 4 Pause [s]. r 13 20 Rinse Phase Duration [s]. dr3 12 Drain [s].						
Sh2 34 Short Wash Phase [s]. PR2 4 Pause [s]. r 12 20 Rinse Phase Duration [s]. dr 2 12 Drain [s]. FP2 0 Final Pause [s]. Cycle 3 parameters family. Ln3 8 Long Wash Phase [min]. Sh3 34 Short Wash Phase [s]. PR3 4 Pause [s]. r 13 20 Rinse Phase Duration [s]. dr 3 12 Drain [s].	[75					
PR2 Y Pause [s]. r 12 20 Rinse Phase Duration [s]. dr 2 12 Drain [s]. FP2 D Final Pause [s]. Cycle 3 parameters family. Ln3 B Long Wash Phase [min]. 5h3 3Y Short Wash Phase [s]. PR3 Y Pause [s]. r 13 20 Rinse Phase Duration [s]. dr3 12 Drain [s].				Long Wash Phase [min].		
Rinse Phase Duration [s]. dr2 12 Drain [s]. FP2 D Final Pause [s]. Cycle 3 parameters family. Ln3 B Long Wash Phase [min]. Sh3 34 Short Wash Phase [s]. PR3 4 Pause [s]. r 13 20 Rinse Phase Duration [s]. dr3 12 Drain [s].				Short Wash Phase [s].		
### ##################################				Pause [s].		
FP2 D Final Pause [s]. Cycle 3 parameters family. Ln3 B Long Wash Phase [min]. 5h3 34 Short Wash Phase [s]. PR3 4 Pause [s]. r 13 20 Rinse Phase Duration [s]. dr3 12 Drain [s].				Rinse Phase Duration [s].		
Cycle 3 parameters family. Ln3 B Long Wash Phase [min]. 5h3 34 Short Wash Phase [s]. PR3 4 Pause [s]. r 13 20 Rinse Phase Duration [s]. dr3 12 Drain [s].				• •		
Log Wash Phase [min]. Sh3 34 Short Wash Phase [s]. PR3 4 Pause [s]. r 13 20 Rinse Phase Duration [s]. dr3 12 Drain [s].		FP2	0	Final Pause [s].		
Sh3 34 Short Wash Phase [s]. PR3 4 Pause [s]. r 13 20 Rinse Phase Duration [s]. dr3 12 Drain [s].	EA3			rs family.		
PR3 4 Pause [s]. r · 3 20 Rinse Phase Duration [s]. dr 3 12 Drain [s].			8	Long Wash Phase [min].		
Rinse Phase Duration [s].			34	Short Wash Phase [s].		
dr 3 12 Drain [s].		PA3	4	Pause [s].		
			20	Rinse Phase Duration [s].		
			12	Drain [s].		
FP3		FP3	0	Final Pause [s].		
Boiler Temperature Threshold for Cycle 3.		E 3d	8	Boiler Temperature Threshold for Cycle 3.		

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drn	Drain par	ameters	family.	
	ldr	120	Initial Drain Phase Duration [s].	
	Fdr	90	Final Drain Phase Duration [s].	
	drt	0	Drain and cleaning mode.	
	[bd	0	Wash tank water change frequency control disabled.	
	dto	48	Drain cycle Timeout.	
dPA	Set other	paramet	ers.	
	1PA	2	Initial Pause [s] (for ALL cycles).	
	dl y	3	Delay for the 2 nd wash pump [s].	
	Pdr Drain Phase Duration at the end of washing phase [s].			
	rPA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).	
	[F	0	Degrees Celsius display.	
	rit	0	During the rinse stage, the display shows the boiler temperature.	
	ELE	0	Termal Label mode disabled (Functions present with firmware version 4.04).	
HEP	Enter into	HCP pa	rameter family and set the following parameters.	
	5Er	1	Machine arranged for remote connection to PC.	
Switch OFF	and then swi	tch ON th	ne machine.	
GEn	Enter into	GEn pa	rameter family.	
	d in	240	Initial Detergent Dosage.	
	r In	18	Initial Rinse Aid Dosage.	
	dEt	15	Detergent dispensing during the wash cycle (loading during wash stage).	
	rA,	7	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).	

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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		and then swi		
· 	[FG	Enter into		rameter family and set the following parameters:
		Ł YP	1 1	Pot Washer.
- 1		bo i		Atmospheric boiler.
		doo	2	Front loading function.
		dFL	2	Default values for Pot Washer models.
		tre	0	Disabled (for this appliance SOFT START is NOT possible).
		b . t	1	Tank heater works only if boiler temperature reached.
		be F		The tank is filled into the traditional way.
		LE5	0	Detergent level switches not enabled.
		U 1	9	Select user interface hood type/ undercounter model.
		r E	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
		A) r	1	Alarms enabled.
		AAC	0	Boiler electronic level sensor.
		FrG	0	Resin regeneration cycle forcing.
		5rU	10	Rinse water max. hardness.
		bPo	50	Boiler heating control.
. S	Switch OFF	and then swi		Š
		ry paramete		
	FAE			rameter family and set the following parameters.
		ЬŁТ	78	Boiler Temperature Threshold.
		ьн ,	96	Boiler temperature: alarm threshold.
		ЬЯJ	4	Boiler Temperature Adjust.
		ЬР	1	Boiler standby function enabled.
		b5Ł	4	Booster Function.
		bŁd	8	During stand-by boiler is kept at lower temperature than Temperature Threshold.
		FF[63	Tub Temperature: Threshold.
		EH,	75	Tank temperature: alarm threshold.
. M	Modify the cy	ycle paramet	ers:	
	[41	Cycle 1 p	arameter	's family.
		Lnl	2	Long Wash Phase [min].
		5h 1	3 4	Short Wash Phase [s].
		PR I	4	Pause [s].
		r 11	20	Rinse Phase Duration [s].
		dr 1	21	Drain [s].
		FP 1	8	Final Pause [s].
	[72	Cycle 2 p	arameter	rs family.
		LnZ	5	Long Wash Phase [min].
		5h2	34	Short Wash Phase [s].
		PR2	4	Pause [s].
		r 12	20	Rinse Phase Duration [s].
		dr2	21	Drain [s].
		FP2	0	Final Pause [s].
	EY3	Cycle 3 p	arameter	's family.
		EnJ	8	Long Wash Phase [min].
		5h3	34	Short Wash Phase [s].
		PR3	4	Pause [s].
		r i3	20	Rinse Phase Duration [s].
		dr3	21	Drain [s].
		FP3	8	Final Pause [s].

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drn	Drain pa	rameters	family.
	1dr	180	Initial Drain Phase Duration [s].
	Fdr	90	Final Drain Phase Duration [s].
	drt	0	Drain and cleaning mode.
	[bd	0	Wash tank water change frequency control disabled.
	dŁo	48	Drain cycle Timeout.
dPA	Set other	r paramet	ers.
	1PA	2	Initial Pause [s] (for ALL cycles).
	dl y	3	Delay for the 2 nd wash pump [s].
	Pdr	8	Drain Phase Duration at the end of washing phase [s].
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cycles).
	[F	0	Degrees Celsius display.
	rit	0	During the rinse stage, the display shows the boiler temperature.
	ELE	0	Termal Label mode disabled (Functions present with firmware version 4.04).
HEP	Enter into	o HCP pa	rameter family and set the following parameters.
	5Er	1	Machine arranged for remote connection to PC.
Switch OFF	and then swi	tch ON th	e machine.
GEn	Enter into	o GEn pa	rameter family.
	d in	240	Initial Detergent Dosage.
	r In	18	Initial Rinse Aid Dosage.
	dEt	15	Detergent dispensing during the wash cycle (loading during wash stage).
	rA.	7	Rinse aid dispensing during the rinse cycle (loading during boiler filling stage).

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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EPPW	/ESC	360	(EX PW1 - 60Hz) PROG 14 ²
	and then swi		
. EFG	Enter into	o CFG pa	rameter family and set the following parameters:
	ŁУР	1	Pot Washer.
	bo ,	8	Atmospheric boiler.
	doo	2	Front loading function.
	dFL	2	Default values for Pot Washer models.
	tre	0	Disabled (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	<i>0</i>	Detergent level switches not enabled.
	U 1	9	Select user interface hood type/ undercounter model.
	rE	8	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	ARG	0	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
. Switch OFF	and then swi		Š
	ory paramete		
FAE			rameter family and set the following parameters.
	ЬŁζ	78	Boiler Temperature Threshold.
	ьн	95	Boiler temperature: alarm threshold.
	ЬЯJ	4	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	65E	4	Booster Function.
	btd	Ö	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	FF[63	Tub Temperature: Threshold.
	FH 1	75	Tank temperature: alarm threshold.
. Modify the o	cycle paramet		tank temperature, alarm tirreshold.
Ey i		oarameter	rs family
	Lnl	2	Long Wash Phase [min].
	5h 1	34	Short Wash Phase [s].
	PR I	4	Pause [s].
	r (1	20	Rinse Phase Duration [s].
	dr 1	13	Drain [s].
	FP 1	0	Final Pause [s].
[75			
L 3E	LnZ	parameter E	
	5h2	5 20	Long Wash Phase [min].
	27C PA2	34 u	Short Wash Phase [s].
		4 20	Pause [s].
	r 12	20	Rinse Phase Duration [s].
	dr2	13	Drain [s].
£.43	FPZ	0	Final Pause [s].
EY3		parameter	
	End	8	Long Wash Phase [min].
	5h3	34	Short Wash Phase [s].
	PR3	4	Pause [s].
	r 13	20	Rinse Phase Duration [s].
	dr3	13	Drain [s].
	FP3	0	Final Pause [s].
	bt 3	8	Boiler Temperature Threshold for Cycle 3.

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EPP	WESC	360	(EX PW1 - 60Hz)	PROG 141			
drn	Drain pa	Drain parameters family.					
	ldr	120	Initial Drain Phase Duration [s].				
	Fdr	120	Final Drain Phase Duration [s].				
	drt	0	Drain and cleaning mode.				
	[bd	8	Wash tank water change frequency control disabled.				
	dto	48	Drain cycle Timeout.				
dPR	Set othe	r paramet	ers.				
	1PA	2	Initial Pause [s] (for ALL cycles).				
	dly	3	Delay for the 2 nd wash pump [s]. Drain Phase Duration at the end of washing phase [s]. Duration of pause after the rinse cycle [s] (for ALL cycles). Degrees Celsius display.				
	Pdr	Pdr 0 rPA 0 [F 0					
	r PA						
	[F						
	rit	8	During the rinse stage, the display shows the boiler to	emperature.			
	FLE	0	Termal Label mode disabled (Functions present with	firmware version 4.04).			
HEP	Enter int	Enter into HCP parameter family and set the following parameters.					
	5Er	1	Machine arranged for remote connection to PC.				
S. Switch O	FF and then sw	ritch ON th	ne machine.				
ũE n	Enter int	to GEn pa	rameter family.				
	d In	240	Initial Detergent Dosage.				
	r In	18	Initial Rinse Aid Dosage.				
	dEt	15	Detergent dispensing during the wash cycle (loading	during wash stage).			
	rA .	7	Rinse aid dispensing during the rinse cycle (loading of	during boiler filling stage).			

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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EPPW	/ELG	360	(EX PW2 - 60Hz) PROG 142
. Switch OFF	and then swi		
. [FG	Enter into	o CFG pa	arameter family and set the following parameters:
	F Ab	1	Pot Washer.
	bo ı	0	Atmospheric boiler.
	doo	2	Front loading function.
	dFL	2	Default values for Pot Washer models.
	trc	8	Disabled (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.
	U I	9	Select user interface hood type/ undercounter model.
	rE	0	Regeneration cycle disabled (only for dishwashers with non-continuous water softener).
	Al r	1	Alarms enabled.
	AAG	8	Boiler electronic level sensor.
	FrG	0	Resin regeneration cycle forcing.
	5rU	10	Rinse water max. hardness.
	bPo	50	Boiler heating control.
. Switch OFF	and then swi		
	ory paramete		
FAE	Enter into	o FAC par	rameter family and set the following parameters.
	beï	78	Boiler Temperature Threshold.
	ьн ,	96	Boiler temperature: alarm threshold.
	ЬЯJ	4	Boiler Temperature Adjust.
	ЬР	1	Boiler standby function enabled.
	b5Ł	4	Booster Function.
	bŁd	0	During stand-by boiler is kept at lower temperature than Temperature Threshold.
	££[63	Tub Temperature: Threshold.
	EH 1	75	Tank temperature: alarm threshold.
. Modify the o	cycle paramet		
Ey i		parameter	rs family.
	Lnl	2	Long Wash Phase [min].
	5h 1	3 4	Short Wash Phase [s].
	PA I	4	Pause [s].
	r.1	20	Rinse Phase Duration [s].
	dr 1	22	Drain [s].
	FP 1	0	Final Pause [s].
£45		parameter	
	LnZ	5	Long Wash Phase [min].
	5h2	- 34	Short Wash Phase [s].
	PA2	4	Pause [s].
	د رح د ۱۲۰	20	Rinse Phase Duration [s].
	dr2	55	Drain [s].
	FP2	0	Final Pause [s].
[Y3		parameter	
L 2 2	Ln3	parameter 8	Long Wash Phase [min].
	5h3	34	Short Wash Phase [s].
	PA3		
	_	4 20	Pause [s].
	r 13	20 cc	Rinse Phase Duration [s].
	dr3	22	Drain [s].
	FP3	0	Final Pause [s].
	bł 3	8	Boiler Temperature Threshold for Cycle 3.

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ΞPF	PWEL(360	(EX PW2 - 60Hz)	PROG 142		
dr		arameters				
	ldr	180	Initial Drain Phase Duration [s].			
	Fdr	140	Final Drain Phase Duration [s].			
	drt	8	Drain and cleaning mode.			
	[bd	8	Wash tank water change frequency control disabled.			
	dto	48	Drain cycle Timeout.			
dP	R Set other	er paramet	ers.			
	1PA	2	Initial Pause [s] (for ALL cycles).			
	dl y	3	Delay for the 2 nd wash pump [s].			
	Pdr	0	Drain Phase Duration at the end of washing phase [s].			
	r PA	0	Duration of pause after the rinse cycle [s] (for ALL cy	/cles).		
	[F	0	Degrees Celsius display.			
	rit	0	During the rinse stage, the display shows the boiler t	temperature.		
	FLE	<i>0</i>	Termal Label mode disabled (Functions present with	firmware version 4.04).		
HE	P Enter in	Enter into HCP parameter family and set the following parameters.				
	5Er	1	Machine arranged for remote connection to PC.			
Switc	h OFF and then sv	vitch ON th	ne machine.			
GE	n Enter in	to GEn pa	rameter family.			
	d in	240	Initial Detergent Dosage.			
	r In	18	Initial Rinse Aid Dosage.			
	dEŁ	15	Detergent dispensing during the wash cycle (loading	during wash stage).		
	rA .	7	Rinse aid dispensing during the rinse cycle (loading	during boiler filling stage).		

To set the board parameters , carefully follow the order given in this programming file, from point 1 to point 7.

WARNING:

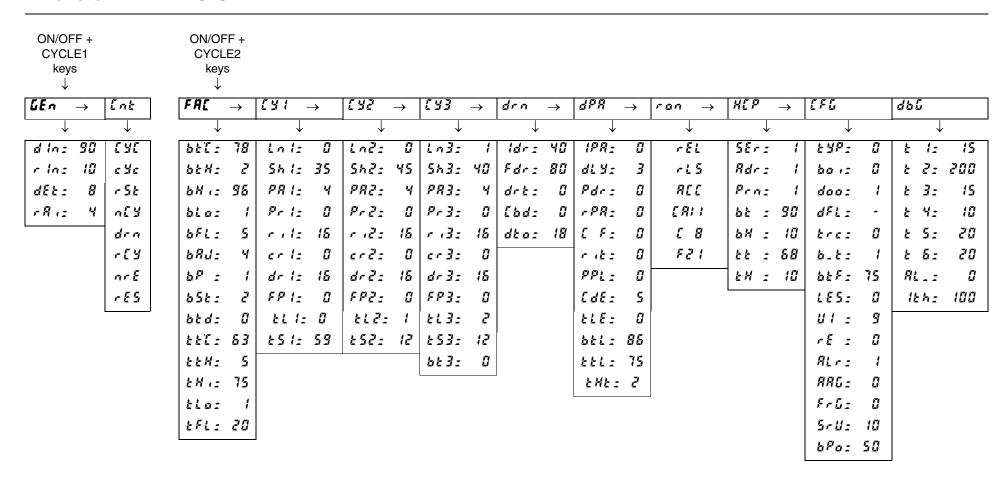
When modifying parameter d^{FL} , all the parameters (except those belonging to the L^{FL} family) assume the default values according to the tables in section 11 DEFAULT VALUES. The parameters of the L^{FL} family are not modified.

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11 DEFAULT VALUES

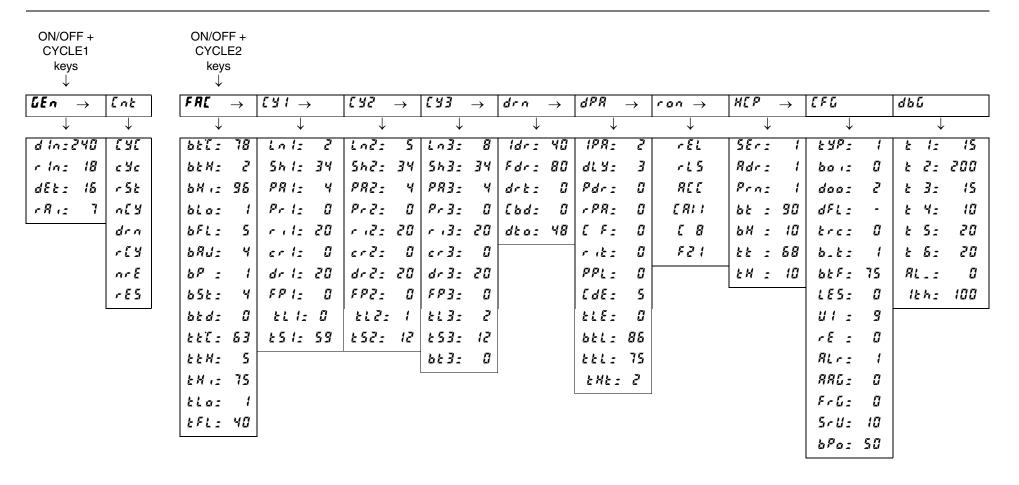
Default 1 - HOOD TYPE



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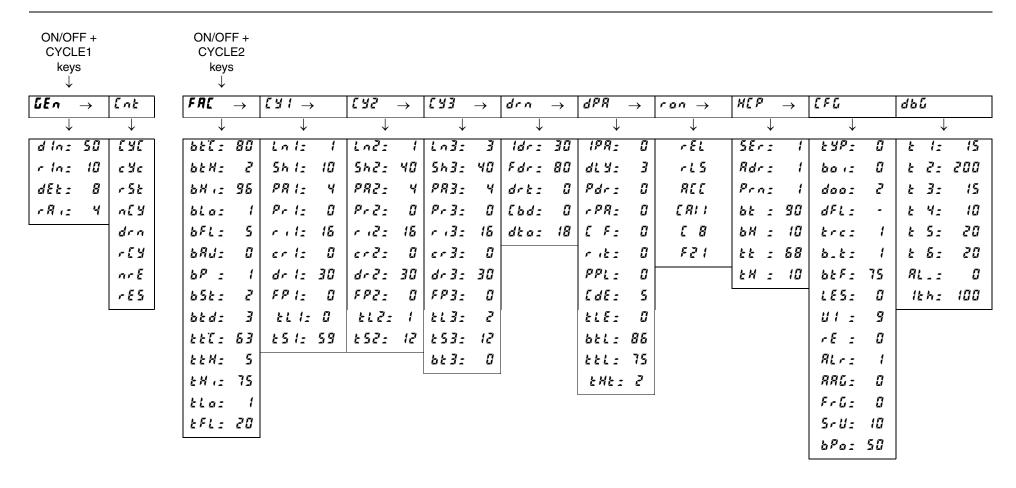
Default 2 - POT WASHER



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Default 3 - UNDERCOUNTER



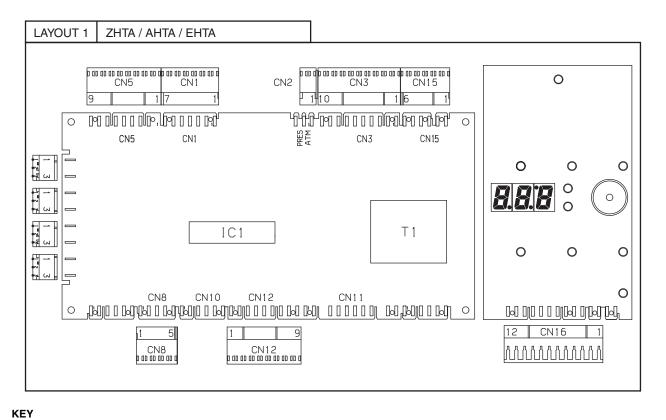
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12 USER INTERFACE AND MAIN BOARD CONNECTORS

12.1 MAIN MALFUNCTIONS NOT DUE TO THE MAIN BOARD

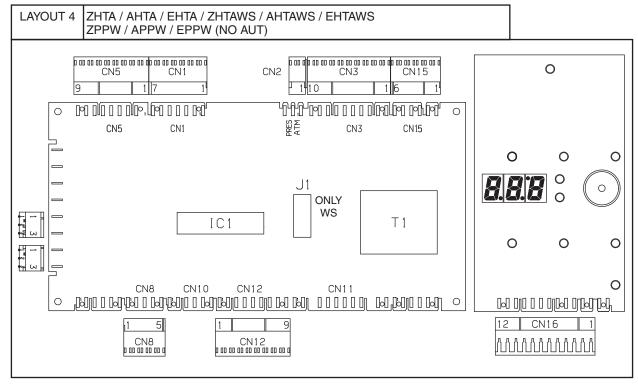
The display shows [LD5E with door/hood closed	Check door/hood micro/sensor
No cycle starts	Check the user interface buttons (have they remained pressed? etc.)
A cycle fails to start	Is a user interface button extension missing?
After replacing the main board only the 3 rd cycle starts	The main board 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.

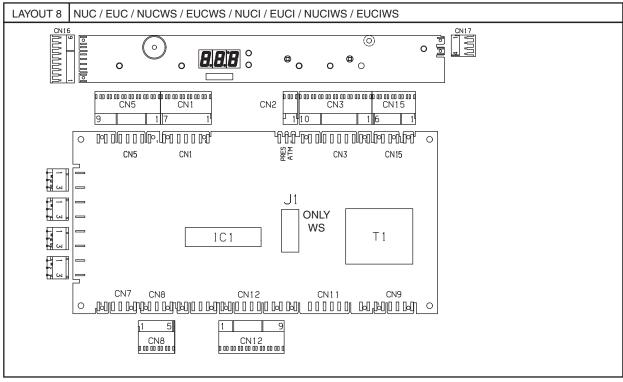
12.2 CONNECTORS LAYOUT



CN1	Rinse pump/wash pump/solenoid valve outputs
CN2	Pressure/atmospheric dishwasher solenoid valve connection
CN3	Detergent/rinse aid dispenser and drain pump 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, detergent/rinse aid dispenser and drain pump outputs
CN5 Tank/boiler temperature sensor inputs
CN7 Hand safety system microswitch input

CN7 Hand safety system microswitch input
CN8 Energy peak controller input

KEY

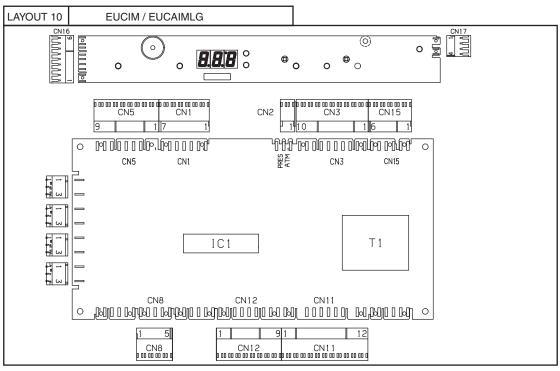
CN10 Safety and upper/lower limit switch input

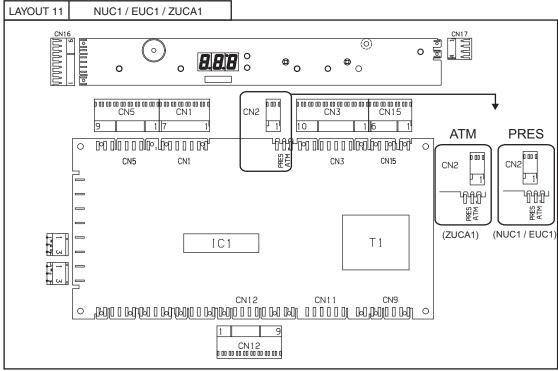
CN11 Hand safety system input - Gear motor current control input - Gear motor polarity inversion connection

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

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

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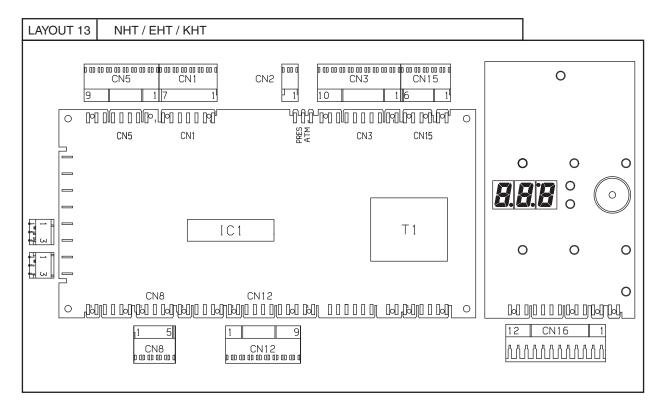


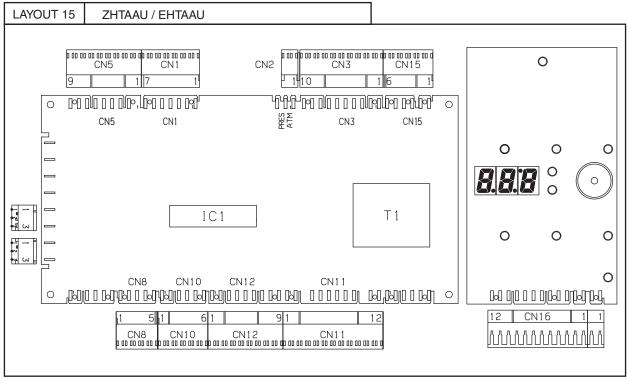
KEY CN1 Rinse pump/wash pump/solenoid valve outputs CN2 Pressure/atmospheric dishwasher solenoid valve connection CN₃ Detergent/rinse aid dispenser and drain pump outputs CN₅ Tank/boiler temperature sensor inputs CN8 Energy peak controller input **CN11** Door lock electromagnet output **CN12** User interface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

Door microswitch connector

CN17

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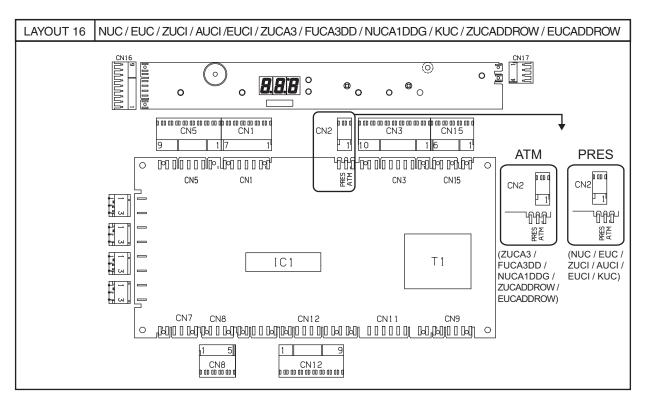


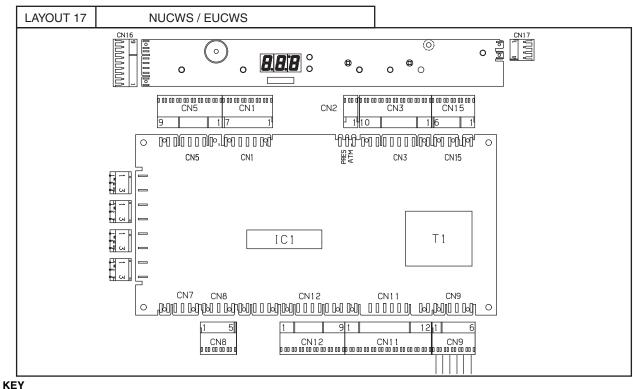


CN1 Rinse pump/wash pump/solenoid valve outputs CN₂ Pressure/atmospheric dishwasher solenoid valve connection CN₃ ECOTEMP transformer, detergent/rinse aid dispenser and drain pump outputs CN₅ Tank/boiler temperature sensor inputs Energy peak controller input CN8 **CN11** Hood lock electromagnet output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

KEY

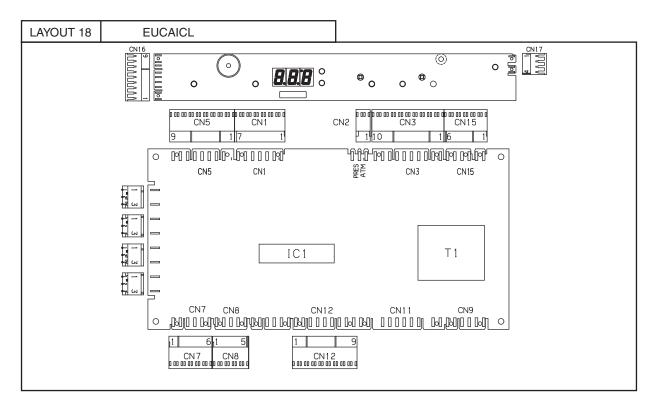
DOC. NO. 5956.65J.00 P. 115 / 126

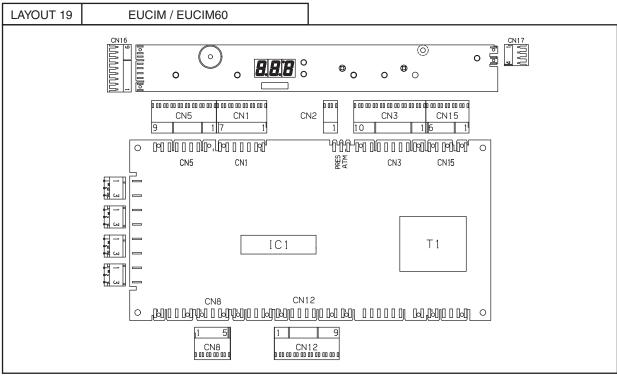




CN1 Rinse pump/wash pump/solenoid valve outputs CN₂ Pressure/atmospheric dishwasher solenoid valve connection CN₃ Detergent/rinse aid dispenser and drain pump outputs CN₅ Tank/boiler temperature sensor inputs CN8 Energy peak controller input CN9 Salt receptacle drain pump and low pressure solenoid valve 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

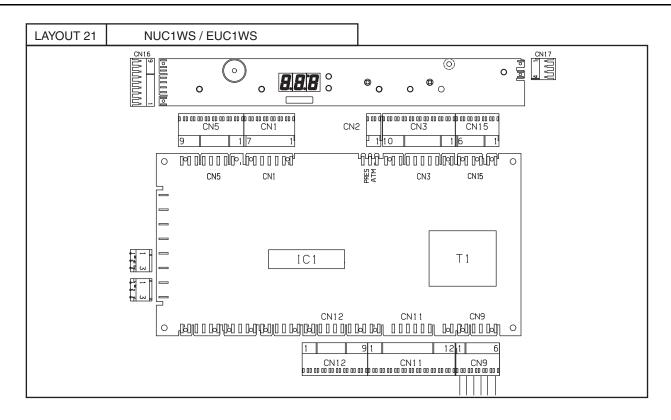
DOC. NO. 5956.65J.00 P. 116 / 126

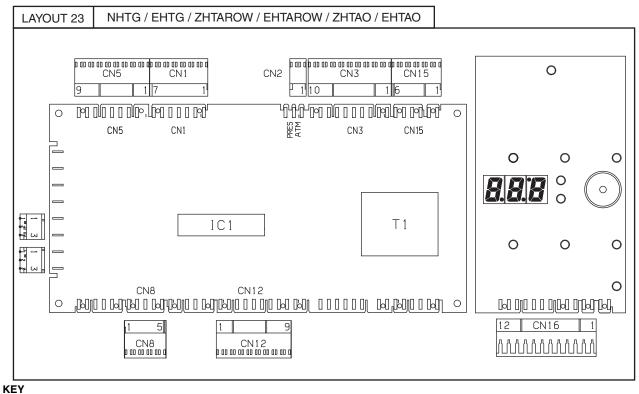




KEY CN1 Rinse pump/wash pump/solenoid valve outputs CN₂ Pressure/atmospheric dishwasher solenoid valve connection CN3 Detergent/rinse aid dispenser and drain pump outputs CN₅ Tank/boiler temperature sensor inputs CN7 Detergent/rinse aid level sensors input CN8 Energy peak controller input **CN12** User 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 and drain pump 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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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?

	8	Rinsing is not done regularly for 2 consecutive cycles	
		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.	
7	3	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 ${\it L}$ appears, to facilitate fault-finding another parameter providing a more detailed indication has been introduced.

The parameter is RL and is found in the dbb family.

The possible cause of the anomaly can be found (see table below) ?according to the value of the parameter R_{\perp} .

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

E.g.: With an automatic hood type the alarm **[9** appears.

Access the parameter $\mathcal{R}^{\boldsymbol{L}}$ in the $\mathbf{d}^{\boldsymbol{L}}$ family.

RL \Rightarrow 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)	54"
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	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}\$. \$\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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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 . S	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 \$\mathbb{E}\$: 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 \$\frac{1}{2}\$ otherwise the alarm \$\frac{1}{2}\$ 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 $\stackrel{\bullet}{\mathcal{L}}$ 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_IY	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 (th): a) excessive mechanical force during lifting.	
AL _ 2 1	During lowering, the current absorbed by the lifting motor has exceeded the threshold (see parameter /): 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 Θ symbol from Serial Number <u>821</u> have become alarms which do <u>not</u> lock the machine.

b	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)?
L	3	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[]	Boiler temperature rise too fast	
	Does the boiler level sensor work properly? The boiler could be empty. Are non-original power resistances installed?	
Θ[]	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[]	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	[E	Boiler temperature sensor out of order	
			Is the temperature sensor broken or disconnected (NT2)? Is the temperature sensor connector correctly inserted?	
Θ	<u></u>	7	Boiler temperature sensor out of order	
			Is the temperature sensor short-circuited (NT2)?	
Θ	<u></u>	10	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	[11	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 ($\mathbf{b}\mathbf{k}\mathbf{l}$), 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{H} , \mathbf{L} \mathbf{H}), 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	3	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 $\vec{F} \in \mathcal{C}$ or $\vec{F} \in \mathcal{C}$ 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 \mathcal{F} 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 $F \in C$ 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 <u>not</u> 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** 1 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	3	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 3	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 : 10	Inefficient resin washing
	After carrying out the maximum permissible number of resin washes, the resins are not sufficiently cleaned by the salt water used to regenerate them. Make sure: - the water filling solenoid valve works correctly - the feed water pressure is at least 50 kPa / 0.5 bar - the water inlet filter is clean - the filling solenoid valve filter is clean - the mother board (ATM-PRES) connector CN2 is correctly positioned.

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 **LEn**:

- parameter 🚜 🖸
- value dEt : 183

Family 54.

Family [F] - alarm F

• parameter 📆 🗓, the maximum value it can be set to is 3, but actually the only significant values are 0 and 1. By setting 📆 🗓 to 3, alarm F8 may appear, also implemented by the firmware, but not used in any current application.

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