

DISHWASHER





Dishwasher _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ DIVA © Electrolux Publ.-Nr.: Muggenhofer Straße 135 599 515 206 ΕN D-90429 Nürnberg with Germany EDW 2000 Fax +49 (0)911 323 1022 Spares Operation Ausgabe: 09.02 R.Kurzke

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1. Control panels



2. Dimensions

Build-in dimensions for Integrated Dishwashers

Build-in dimensions for Built-Under Dishwashers

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Dimensions for Freestanding Dishwasher

Height	85 cm
Width	60 cm
Depth	60 cm

Height with worktop removed 82 cm Feet adjustment 1 cm

3. Components

3.1 Electronic

On electronic models, a micro processor controls all components, this is done using triacs. The electronic also memorizes all programme data.

Die Steuerelektronik besteht aus dem (1) Eingabe-, (2) Ausgabe- und (3) Steuerteil.

3.2 Circulation Pump

The circulation pump is driven by an asynchronous motor with an auxiliary winding. The auxiliary winding ist in circuit with a 3 mF capacitor. A tacho generator is used for speed control. There are three speeds for rinsing.

2800 1/min, 2200 1/min, 1900 1/min, 1700 1/min, 1600 1/min, Power output 50 W.



3.3 Drain Pump

The drain pump is driven by a synchronous motor.

Power output 26 W. Pump rate 15 l/min.

3.4 Flow Heater

The flow heater heats the water to the required temperature. During the wash cycle, water is contantly passing through the flow heater.

2000 W 25 Ω 98 °C ± 5 K 260 °C







3.5 Detergent dispenser		
Dosing of detergentprewash10 mlwash20 - 30 mlDosing of rinse aidposition 1 - 62 ml - 7 mlCapacity140 ml	display "lack of rinse aid" dosing of rinse-aid maximum filling level outlet of rinse-aid detergent tray	
coil The detergent compartment 1 is fill quantity when the door is open. Po 2 and 3 flows back into the storage are filled up. The door will be close rinsed out through the slots in the c	detergent tray for pre wash ing corresponding to the set dosing ssibly existing rinse-aid in compartments tank of the rinse-aid. The detergent trays d and the detergent for prewash will be detergent dispenser cover.	Spule EIN AUS Zeit
During the washing cycle the coil is compartment cover releases the de compartment 1 into compartment 2	s switched on and the detergent etergent. The rinse-aid flows from 2.	EIN AUS Zeit
After switching off the coil, the rinst compartment 3.	e-aid flows from compartment 2 into	EIN AUS Zeit
During the rinse cycle, the coil will and the rinse-aid runs from compa- time, the remaining rinse-aid (15 % compartment 2.	be switched on when the rinse is warmed rtment 3 into the rinse tank. At the same b) runs from compartment 1 into	EIN AUS Zeit
With the coil switched off, the rinse compartment 3.	e-aid flows from compartment 2 into	EIN AUS Zeit
During the rinse cycle, the coil is a switched on the second time, the retank.	lways switched on twice. When it is emaining rinse-aid flows into the rinse	EIN AUS Zeit

3.6 NTC-Temperature sensor with integrated turbidity sensor

NTC	Temp.	Widerstand
	10°C 25°C 60°C	9653 Ohm 4843 Ohm 1204 Ohm
	90°C	445 Ohm

The turbidity sensor function is only activated in cycles "AUTO"

Function:

The input voltage with the turbidity sensor may be between 6 V and 11.4 V. (The measurements are described in detail in the chapter "Measuring Points at the Electronic Control (in the base)"). For a clear water the output voltage must always be 4.3 V. If that value differs due to soiling of the turbidity sensor after a longer operational period, the Easytronic plus recontrols the input voltage with the turbidity sensor automatically until the output voltage is 4.3 V. This happens during the final rinse cycle.

If the 4.3 V is not achieved within 8 seconds, the fault "C5" is stored in the fault memory. If the output voltage falls below 3 V in the prewash cycle and below 3.8 V in the intermediate rinsing cycle, turbid water will be detected. With the service test routine the turbidity sensor will be calibrated to 3.5 V not with water but with air. That corresponds to 4.3 V with water.





3.8V

4.3V

3.7 Pressure Switch

The pressure switch controls the water level. Without water, contact 11 - 12 is closed.

fN Switch point with level Reset point with level 65 mm Ws 45 mm Ws

The pressure switch is not adjustable.



3.8 Interference Filter

The interference filter is connected in the terminal board parallel to the mains feed.





3.9 Spray arms







Celling spray arm

upper spray arm

lower spray arm

3.10 Drying

The new drying fan is located at the top on the rinse tank.

Function mode of the condensing drying

Rinse tank, fan and regenerating dosing with condenser form a closed circuit. The humid air is sucked from the top of the rinse tank and blown through an air guide between rinse tank and regenerating dosing. Thereby the air gets dry and the condensate is guided to the drain tub.

The dry air gets through the rinse tank ventilation into the rinse tank. During the drying phase, the condenser is additionally cooled with 1 liter of water.



Active Drying

Active Drying means the ventilation of a container without any movable parts A plastic container is clipped into the opening in the container cover, from where a hose is passed to the appliance base.

Function

A small quantity of moist air and some condensate emerge from the hose. The condensate is collected in the base side sections where it will evaporate. If a larger quantity of condensate should be present (due to many subsequent programme cycles) the hose end will be immerged, thus stopping both the convection and the condensating process in the hose.

Flooding of the sections is therefore excluded. Only very little moist air will be present.



3.11 Regenerating dosing with condenser

With every filling step, the condenser cools down due to the cold incoming water. Therefore another 1 liter of water is required during the drying cycle.



- 1. softener unit
- 2. regeneration dosage chamber





3.11.1 Water softening/regeneration

The water softening can be adjusted in 10 levels. The incoming water flows until positon 5 to 85 % through the softener which works according to the ion exchange principle. The ion exchanger is filled with small epoxy resin balls. The resins exchange the hardness constituents (calcium and magnesium), for sodium ions.

When all the sodium ions are used up, it is necessary to regenerate the softener. This is done by flushing a brine solution through the softener.

Afterwards the softener is washed out with fresh water and is now fully effective.

Depending on the water hardness, regeneration is only necessary after several wash cycles.

The remaining 15% of water flow through the rinse tank ventilation directly into the appliance.

From setting of level 6, the whole water flows through the softener. For this purpose you also have to set mechanically from 0 to 1 with the regenerating dosing.

With the setting of level 9, it is additionally regenerated after the washing in a rinse cycle. With the settings 1 to 8, it is regenerated after the final rinse depending on need. The softening system is designed for a water hardness of up to 70 °dH.

4. Service tips

4.1 Open the housing

Remove the screws (Abb.1) of the upper plate on the left and right side.

Push the upper plate in front direction to remove the plate (Abb.**2**).







You need **Torx** epuipment



Remove the screws (1) to pull the outer door away.

To remove the panel, remove the fixing screws $(\mathbf{2})$.



4.2 Position of Components

Detergent dispenser (1) Spray arms (2) Roof-mounted shower (3) Salt container (4) Filter (5)

Type plate (6)





Back side view

- Flow heater (1)
- Terminal box (2)
- Inlet hose (3)
- Drain hose (4)
- Water inlet for above spray arm (5)



Removing the detergent dosage chamber:

- disengage locking tabs (1), disconnect hoses (2)
- holding the top of the chamber, pull upwards disengaging it from the softener.

Removing the softener unit :

- remove the securing nut located under the salt cap.
- press softener (1) down and remove it through the front from the base area
- CAUTION if accessible release reed switch.





1

Removing the base :

- remove side panels, rear panel and plinth panel
- gently release base fixing clips with a screwdriver (figure)
- take off base carefully and release circulation pump,
- electronic and heater relay
- disconnect the float switch



With base removed, following components are accessible:

- Drain pump (1) -
- Circulation pump (2) _
- Flow heater (3)
- Temperature sensor / Turbidity sensor (4)
- Pressure switch (5)



5. Water Course Scheme



5.1 All-Around Water Protection

Aqua-Control Inlet Hose

The inlet hose has a double-wall construction. The inner hose is equipped with a flow restrictor built into the tap connection, and has a flow rate of 4 litres per minute. The inlet valve (1) is located in the base of the dishwasher. The safety outer hose (12) is connected to the regeneration chamber. If the inner hose should burst, the water passes into the tub. The safety pressure switch activates the drain pump and decreases the waterlevel down to "normal" level. An additional overflow protection is a defined overflow through the regeneration chamber. The water flows into the bottom tray and activates the float switch, which energises the drain pump. This drains the dishwasher preventing water damage.

Safety level

If the safety level is reached by over-filling, the safety pressure switch starts the drain pump. The water is only drained until it has reached the normal level because the reset point of the safety pressure switch is above the switchpoint of the normal pressure switch.

Leakage Protection

The anti-flood switch in the base tray will activate the drain pump and drain the water from the tub in the event of an internal leakage. If the float switch is activated, all electric components are switched off except the electronic and the drain pump.



- Inlet valve 1
- 2 Air break
- 3 Regeneration water dosage
- 4 Overflow safety level
- 5 Safety overflow
- 6 Inlet to sump from regeneration dosage chamber
- 7 Regeneration dosage chamber
- 8 Softener

Salt container

9

- 10 Non-return valve salt container
- 11 Regeneration valve
- 12 Safety inlet hose
- 13 Base tray
- 14 Float switch
- 15 Pressure switch
- 16 Filter

- 17 Circulation pump
- 18 Flow heater
- 19 Drain pump
- 20 Non-return valve
- 21 Spray arms 22
- Roof-mounted shower 23 Tub vent
- 24
 - Sump assembly

5.2 Water Inlet

The water flows into the regeneration dosage chamber (7) via inlet valve (1), over air break (2), into regeneration dosage chambers (3) into softener (8). At this point the water divides. 1/4 of the water enters the tub through the vent (23). 3/4 of the water enters the sump (24) through hose (6).

The level control chamber built into the sump operates the pressure switch (15).



- 1 Inlet valve
- 2 Air break
- 3 Regeneration water dosage
- 4 Overflow safety level
- 5 Safety overflow
- 6 Inlet to sump from regeneration dosage chamber
- 7 Regeneration dosage chamber
- 8 Softener

- 9 Salt container
- 10 Non-return valve salt container
- 11 Regeneration valve
- 12 Safety inlet hose
- 13 Base tray
- 14 Float switch
- 15 Pressure switch
- 16 Filter

- 17 Circulation pump
- 18 Flow heater
- 19 Drain pump
- 20 Non-return valve
- 21 Spray arms22 Roof-mounted
 - 2 Roof-mounted shower
- 23 Tub vent24 Sump assembly

5.2.1 Water load steps (Example)



-	Static filling until pressure switch point.		۵ ا
	failure code:	Ō	
	If this point isnt reached after max. 2 minutes (Timeout 1), a failure	0	
	code is displayed and the program is stopped. The program phase	0	LDTT
	display PPD-LED <u>LD9</u> is blinking.		

Dynamic filling

	10 accords filling at reduced singulation nump aroud		•	LD9
-	To seconds ming at reduced circulation pump speed		0	LD10
-	5 seconds pause		0	LD11
-	10 seconds filling at reduced circulation pump speed		-	
-	filling with increasing circulation pump speed. As soon as the target			
	speed has been reached, it is filled up to the pressure switchpoint.	*)	The	target
	Failure code:	,	spe	ed is
	If this dynamic switchpoint isn't reached within total 4 minutes		den	endent on
	(Timeout 2), the dynamic filling can be repeated 3 times. Only after		the	subsequent
	non-successful repeating 3 times, a failure code is displayed and		nula	subsequent
	the program is stopped. The PPD-I ED I D9 is blinking		puis	

pulse wash	pulse 2800 1/min	Pause 1600 1/min	target speed in dynamic filling
1	0,9 sec	4,5 sec	2200 1/min
2	0,6 sec	3 sec	1900 1/min
3	0,3 sec	1,5 sec	1700 1/min

New pulse wash with "random" functionality



Ratio = factor for low speed (eeprom definition)

Circulation

The circulation pump (17) pumps the water simultaneously into the ceiling shower (22) and into both spray arms (21). The water is filtered in the sieves (16) and led to the circulation pump.

Function of the new pulse wash with "random" functionality

After the filling steps, the circulation pump is running at two rotational speeds.

Pulse Wash	Ise Wash Pulse time 2800 1/min		Pulse time 2800 1/min Pause 1600 1/min		Use with Wash Cycles	
	Definitive Time	+ Random Time	Definitive Time	+ Random Time		
1	0.9 sec	0-03sec	4.5	0 - 1.5 sec	prewash intensive	
					wash intensive	
2	0.6 sec	0-0.3 sec	3	0 - 1.5 sec	wash and intermediate wash	
					prewash normal	
3	0.3 sec	0 - 0.3 sec	1.5	0 - 1.5 sec	rinse	

The ratio of pulse ime and pause is always 1 : 5.

5.3 Draining

During the wash cycle the water is pumped out at various stages. First the draining water cleans the filters (16). The filters are open at the bottom which allows any soilage to be rinsed off sufficiently. There is a non-return valve (20) at the inlet connection to the drain pump (19). This valve prevents the water



- 1 Inlet valve
- 2 Air break
- 3 Regeneration water dosage
- 4 Overflow safety level
- 5 Safety overflow
- 6 Inlet to sump from regeneration dosage chamber
- 7 Regeneration dosage chamber
- 8 Softener

- 9 Salt container
- 10 Non-return valve salt container
- 11 Regeneration valve
- 12 Safety inlet hose
- 13 Base tray
- 14 Float switch
- 15 Pressure switch
- 16 Filter

- 17 Circulation pump
- 18 Flow heater
- 19 Drain pump
- 20 Non-return valve
- 21 Spray arms
- 22 Roof-mounted shower
- 23 Tub vent
- 24 Sump assembly

Sequence draining with pressure switch level check



Drain Cycle	T1	Т2	Т3
First draining before every wash cycle	45 sec	15 sec	20 sec
Draining after the wash cycles	30 sec	20 sec	10 sec

New draining with sequence draining

- The draining step contains of 3 time sequences. In the middle sequence, during time T2 the drain pump is stopped.
- At the end of the drain step, the water level is checked.
- If the switch back is reached, the drain step is terminated. If the switch back isn't reached, the drain step is repeated.
- A failure code is displayed, if after 2 drain steps, the switch back couldn't be reached. In this case, the program is stopped.

6.1. Inputs and outputs: keys, LEDs and lamps

Arrangement and designation

The control class EDW2000 replaces the previous control classes Easytronic and Easytronic plus. For this reason there will be variants of appliances with combinations of display and PAA (program run display) in the output area (right side of the appliance). 3 possible variants have been represented in the outlines below. In this connection, the subdivision into "program selection, option selection, SZV, RLA, RAA and HWA" represent the currently defined standard division. In coordination with the Development Department it is possible to alter the assignment depending on variant in order to react to possibly coming design variants!



Variant 1: maximum equipment

This device documentation always assumes that the full number of keys are assembled! Reduced key assemblies are specially important with customer and service functions. as well as with the "Reset" function.

y arrang	Iment	horizontal key arrangemer
S 4	S 7	
S 5	S 8	
S 6	59	S1 S2 S3 S4 S5 S6 S7 S8 S9
	10 5	
••••		• • • • • • • • • • • • • • • • • • • •
S 3	5 6	
S 4	S 7	S1 / / S2 S3 S4 S5 S6 S7

6.2. General information

• Equipment in the panel area

(see description page B 1)

• Variant-depending existing equipment:

- Up to 10 keys (<u>S2</u> to <u>S11</u>) for the selection of programs or options with the corresponding LEDs. The
 alternatively available "SZV" key can only be programmed to the two keys (<u>S10</u> or <u>S11</u>) of the
 output module.
- Start-time preselection by 2.5-digit display with the corresponding confirmation LED.
 Indication between 1 and 19 hours (in steps of 1h)
- Indication of remaining run time by 2.5-digit display with the maximum run time display "199"
- Information displays (LD19 to LD24 are currently defined for that)
 - LED display for salt
 - + LED display for rinse-aid
 - · LED display for water
 - LED display for spraying arm
 - LED display for door
 - LED display for sieve
- Program run time display (LD13 to LD18 are currently defined for that)
 - maximum 6-level display by LEDs possible
 e.g. prewash washing rinsing final rinse drying end
- All information LEDs resp. program run time LEDs are freely selectable depending on variant in agreement with the Development Department in order to react to possibly coming design variants.

A Positively necessary minimum equipment:

You always need, besides key <u>S1</u> (ON/OFF), at least 3 program or option keys with pertinent LEDs in order to select all customer or service functions, e.g., adjustment of hardness range. You also absolutely need for output the display or the End LED.

• Functions which can be adjusted variably by the customer via the control panel:

(see description page B 11-13)

- Indication and alteration of water hardness.
- Activation/deactivation of rinse-aid addition.
- Activation/deactivation of signal sound for end.

Indication by means of display or "end" LED, depending on the equipment variant.

• Miscellaneous:

- regeneration depending on need
- manufacturing test routine
- · various service functions (fault memory, single actuator selection, LED test)
- design of appliance for max. energy label AAA
- alternatively with or without fan drying
- aqua control system in different versions depending on electrical and mechanical components and the corresponding variant programming

• Possible selectable program options:

- start-time preselection
- · half load "small quantity" as automatic system or with key
- additional washing cycle
- 3 in 1 (special tablet program)
- sanitize

6.3. Input philosophy: program selection



- 1. Appliance in switched-off condition
 - 2. Switch on appliance with ON/OFF key S1
 - ✤ Display <u>LD1</u> with ON/OFF key is lit.
 - \clubsuit Appliance is in the prestart mode.
 - All program keys and the "SZV" (start-time preselection) key are unlocked and can be selected.
 - After the program selection it is also possible to select possibly available options as far as they are permitted for the program.
 - Selection of a start time possible (see description page B 4 / "Input philosophy start-time preselection")
 - 3. Select program by pressing the corresponding key.
 - ♦ In addition to the <u>LD1</u> display, the corresponding program LED and the run time LED are lit.
 - ✤ The run time to be expected is flashing.
 - ♦ All program-corresponding PAA LEDs (except the "end" LED) are lit.
 - With alternative equipment variants (see figure) it is possible that only the run time to be expected or only the PAA LEDs are flashing in the output area.

Within 3 seconds it is possible to alter or additionally select an option at will.

Program starts automatically 3 seconds after the last key pressure

- During these 3 seconds it is still possible to select a start time (see description page B 4 / "Input philosophy: start-time preselection")
- 4. Program is running
 - $\$ Corresponding program LED is lit.
 - If available depending on variant, the run time is indicated in the display, the run time LED is lit.
 - Solution With alternative equipment variants it is also possible that only the corresponding PAA LED is lit.

A Program starts only when the door has been closed.



6.4.1. Input philosophy: select start time

(Variant A: time preselection after program selection





- 1. Switch on appliance with ON/OFF key S1
 - ✤ Display <u>LD1</u> with the ON/OFF key is lit.
 - ♦ Appliance is in the "prestart" mode.
 - All program keys and the "SZV" key are unlocked and can be selected.
 - After the program has been selected you can also select possibly available options as far as they are permitted for the program.
- 2. Select program by pressing the corresponding key.
 - In addition to the <u>LD1</u> display the corresponding program LED and the run time LED are lit. The run time to be expected is flashing in the display, all programcorresponding PAA LEDs (except the "end" LED) are lit.
 - Solution With alternative variants of equipment it is possible that only the run time to be expected or only the PAA LEDs are flashing in the output area.
- 3./4. Actuate the start-time preselection key within 3 seconds.
 - ✤ Display LD1 with ON/OFF key, program LED and "SZV" LED are lit
 - \clubsuit Set start time is flashing in the display.
 - ✤ All program-corresponding PAA LEDs (except the "end" LED) are lit.
 - Solution With alternative variants of equipment (see figure) it is possible that only the run time to be expected or only the PAA LEDs are flashing in the output area.
 - Any additional key pressure causes the start time scrolling by 1 hour
 - 1h 2h ... 19h indication of remaining run time (SZV=0h) 1h 2h ...
- 5. 3 seconds after the last actuation of the "SZV" key the set start time gets active and is running down
 - In addition to the <u>LD1</u> display the corresponding program LED and "SZV" LED are lit. The start time is lit in the display.
- Start-time preselection gets only active when the door has been closed!

6.4.2. Input philosophy: select start time

(Variant B: time preselection before program selection)





- 1. Switch on appliance with ON/OFF key S1.
 - ✤ Display <u>LD1</u> with the ON/OFF key is lit.
 - ♦ Appliance is in the "prestart" mode.
 - ✤ All program keys and the "SZV" key are unlocked and can be selected
 - Solution After the program has been selected you can also select possibly available options, as far as they are permitted for the program.
- 2. Actuate the start-time preselection key.
 - ✤ Display <u>LD1</u> with the ON/OFF key is lit.
 - SZV" LED is lit
 - $\$ set start time is flashing in the display.
 - Any additional key pressure causes the start time scrolling by 1 hour 1h - 2h - 3h - ... - 19h - display off (SZV=0h) - 1h - 2h - ...
- 3. Indication of "SZV" is flashing in the display until an additional washing cycle will be selected. The selected start time is not active until that time!
- 4. Select desired program by pressing the corresponding key.
 - ✤ In addition to the <u>LD1</u> display, the corresponding program LED is lit.

 - $\$ The run time to be expected is flashing in the display.
 - ✤ All program-corresponding PAA LEDs (except the "end" LED) are lit.
- 5. 3 seconds after the last key actuation the set start time gets active and is running down
 - In addition to the <u>LD1</u> display the corresponding program LED and the "SZV" key are lit. The start time is indicated in the display.
- Start-time preselection gets active only when the door has been closed!

6.5. Input philosophy: program run

Cvcle start

- 3 seconds after the last key actuation respectively after the set start time has run down, the selected washing cycle will start automatically when the door has been closed.
- From that moment it is no more possible to select a time preselection resp. a program option.
 - cancel resp. delete cycle
 - (see description page B 6 / "Delete cycle")
 - change resp. alter cycle (see description page B 7.2 / "Alter cycle")

Cycle run

Appliances with display

- LED LD1, LED of the selected washing cycle as well as run time LED are lit during the whole cycle run.
- The display indicates the still remaining washing time in minutes.
- The run time is updated depending on the program. The update is executed in changing ٠ program parts. In doing so, the run time can correct in jumps downward or the indication is stopped until the time has been synchronized again.
- Depending on the equipment of the appliance, the cycle run LEDs (PAA) indicate the currently active program part.
- For that the corresponding PAA LED is flashing up pulsating (2 sec. on / 400mS off).

Appliances without display, but with PAA LEDs:

- LED LD1, LED of the selected washing cycle as well as run time LED are lit during the whole cycle run.
- By means of the cycle run LEDs (PAA) the currently active program part is indicated. For that the corresponding PAA LED is flashing up pulsating (2 sec. on / 400mS off).

Cycle end

Appliances with display:

- The confirmation LED for the program key of the run-down cycle and the display LD1 of the ON/OFF key continue to be lit.
- The display indicates "0" and the run time LED is lit.
- If there is a cycle run display depending on the variant, also the "end" LED is lit.



- Appliances without display, but with PAA LEDs:
 - The confirmation LED for the program key of the run-down cycle and the display LD1 of the ON/OFF key continue to be lit.
 - The "end" LED is lit in the cycle run display.





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- If the appliance is equipped with a buzzer and this one is activated, there will be an end signal when the cycle end has been reached, which is a whistling sound with the following interval: 15 seconds on - 3 minutes off - 15 seconds on - 3 minutes off - 15 seconds on - completely off The end signal is cancelled immediately by opening the door.
- When the cycle end has been reached, it is possible to delete the run-down cycle by opening and closing the door. After closing the door, the appliance is automatically again in the "prestart" mode.
- When opening the door all indications remain on the panel, as far as the appliance is not switched off by the ON/OFF key S1.
- In order to switch off the appliance completely you have to actuate the ON/OFF key S1. The run-down cycle is deleted even in this case. All displays go out.



6.6. Input philosophy: delete program

A selected or already started washing cycle can be deleted during normal operation at any time.

• Delete program (using the reset function)



Reset function always with keys S2 and S3

- 1. Cycle running
- Actuate reset keys <u>S2</u> and <u>S3</u> for about 2 seconds
 ♦ Display <u>LD1</u> with ON/OFF key and run time LED are lit.
 - \clubsuit Display LED of the running cycle starts flashing.
- 3. After about 2 seconds all displays, except LED <u>LD1</u> of the ON/OFF key, go out. The program has been deleted.

ATTENTION!

In case of reduced key assemblies be sure to observe Description Page B 1.

6.7.1. Input philosophy: alter program

Alter program during the prestart phase





- 1. Program has been selected but did not yet start.
 - ♥ In addition to the <u>LD1</u> display, the corresponding program LED and run time LED are lit.
 - \clubsuit Run time to be expected is flashing.
 - ✤ All program-corresponding PAA LEDs (except the "end" LED) are lit.
 - ♥ With alternative variants of equipment (see figure) it is possible that only the run time to be expected or only the PAA LEDs are flashing in the output area.
- 2. By pressing the new desired program key shortly it is possible to alter directly. Options already selected before are deleted and have to be selected anew.
 - ✤ LD1 display with ON/OFF key, new program LED and run time LED are lit.
 - \clubsuit Run time to be expected is flashing in the display.
 - ✤ All program-corresponding PAA LEDs (except the "end" LED) are lit.
 - ♥ With alternative variants of equipment (see figure) it is possible that only the run time to be expected or only the PAA LEDs are flashing in the output area.
- After the last key actuation it still can be altered within 3 seconds.
 If no key is actuated any more during these 3 seconds, the program will start.
- A Program starts only when the door has been closed.

Special feature when a start time was selected before!

- 1. Program and start time have been selected but did not yet start.
 - ♦ LD1 display with ON/OFF key, program LED and "SZV" LED are lit.
 - ✤ Programmed start time is flashing in the display.
 - ✤ All program-corresponding PAA LEDs (except the "end" LED) are lit.
 - ♥ With alternative variants of equipment (see figure) it is possible that only the run time to be expected or only the PAA LEDs are flashing in the output area.
- 2. By pressing the new desired program key shortly it is possible to alter directly. The already selected start-time preselection is preserved after the alteration! Program options already selected before, however, are deleted and must be selected anew.
 - ✤ LD1 display with ON/OFF key, new program LED and "SZV" LED are lit.
 - Run time to be expected is flashing in the display for 2 sec., afterwards the start time is flashing again.
- If the selected start time is already running down (the time is permanently lit in the display) you have to press the new desired program key a longer time (about 6 seconds) for alteration.

6.7.2. Input philosophy: alter program

• Alter program after started cycle



LD1	O S1 Instan	LD4 34	LD7 57	\$10 LD10	LD13	LD19	_
LD2	S 2	LD5 🚺 🔘 S5	LD8 🔵 S8	1.99 LD11	LD15 LD16	LD21 LD22	/
LD3	S 3	LD6 S6	109 59	S11 LD12	LD17 LD18	LD23 LD24	/
LD1	LD2 LD3	LD4 LD5 LD6 L	.D7 LD8 LD9	\$10 LD10	LD13	LD19	_
\ •	ii	oood		1.99 LD11	LD14 LD15 LD16	LD20 LD21 LD22	/
S1 Inches	52 53	54 55 56	57 58 59	S11 LD12	LD17 LD18	LD23 LD24	/

- 1. Cycle running
 - b <u>LD1</u> display with the ON/OFF key and the corresponding program LED are lit.
 - bepending on the appliance variant, the run time LED is lit and the run time
 - And/or by means of the program run LEDs (PAA) the active program part is/are indicated in the display.
- Actuate the new desired program key (in our example <u>S3</u>) for about 6 seconds.
 The displays remain as described under 1., but now the LED of the running program starts flashing.
- 3. After about 6 seconds the previous program LED goes out and the program LED of the new selected program is lit.
 - b In addition to the <u>LD1</u> display, the run time LED is lit.
 - b The display indicates the run time to be expected anew.
 - Depending on the appliance variant, the corresponding program LED (PAA) indicates the currently active program part.
- If a program is altered after an already selected cycle the new cycle starts generally from the beginning!

This is also indicated by the run time in the display by an increase of the run time. Options already selected before will be deleted.

6.8. Input philosophy - interrupt program

Interrupt program

- Using the ON/OFF key <u>S1</u> you can interrupt the program as long as you want. The same is valid for an interruption by opening the door.
- There is no deleting function integrated in the ON/OFF key S1.
- If the cycle is interrupted by using the ON/OFF key, all displays go out.
- The cycle run will be continued by switching on again using the ON/OFF key <u>S1</u> resp. by closing the door, without that another key actuation becomes necessary. Information: The cycle will be continued with a short time delay.
- All displays and confirmations appear in the same condition as before the interruption.

• What happens when opening and closing the door?

- The appliance is switched on and is in the "prestart" mode
 - After opening the door all indications keep to be displayed on the panel. The power supply of the electronic is fully guaranteed as long as the appliance remains switched on.
- The door is opened during the running cycle
 - After opening the door all indications keep to be displayed on the panel as long as the appliance remains switched on using the ON/OFF key <u>S1</u>.
 - After closing the door the appliance will start automatically and the cycle run will be continued.

Attention:

- When the 1st regeneration has been reached in the program part "drying" the following is valid:
 - When the door is open longer than 30 seconds, the program will be deleted. After closing the door, the appliance will be automatically again in the "prestart" mode. A new program could be selected again immediately.
 - Switching off the appliance by pressing the ON/OFF key <u>S1</u> also deletes the current program from that moment.

(see description page B 3 / "Input philosophy program selection")

• What happens in case of resp. after a power failure?

 In case of a power failure the appliance behaves as when switched off using the ON/OFF key.

(see description above / under "Interrupt program")

- After the mains have returned the appliance behaves as after being switched on using the ON/OFF key <u>S1</u>.
- After a power failure the cycle will continue without any necessary key actuations.

6.9.1. Input philosophy - displays (part 1)

All displays are designed as LED displays and are available depending on the appliance variant. If available depending on variant, start-time preselection and run time are indicated

for that see the figures of input and output parts page B 1 / "Inputs and outputs"

• Displays for program selection and options

- Above resp. next to a program or option key there is generally a corresponding LED to confirm the selected function.
- They are lit permanently during the whole cycle run.

• Display for start-time preselection (SZV)

- ✤ The start-time preselection is indicated via a 2.5-digit display.
- ✤ The display indicates the start time in hours.
- ✤ The start time is counted down to 0h in steps of hours.
- ✤ The possible start-time setting is displayed scrolling.
 - 1h 2h 3h ... 19h 0h (SZV off) 1h 2h ...
- In addition to the start time in the display, also the confirmation LED next to the "SZV" key is flashing up.
- When the start-time preselection has run down, the display indicates the run time to be expected of the selected washing cycle in minutes, the "SZV" LED goes out and the run time LED is lit.

• Run time display (RLA)

- ✤ The remaining run time is indicated via a 2.5-digit display.
- ✤ The display indicates the still remaining washing time in minutes.
- The run time is updated depending on the program. The update is executed in changing program parts. In doing so the run time can correct downward in jumps, or the display is stopped until the time has been synchronized again.
- If the display indicates a run time, the run time LED is lit additionally.

• Program Phase Display (PAA)

- ✤ The program run display is executed via a maximum of 6 LED displays.
- \checkmark At the moment LEDs <u>LD13</u> <u>LD18</u> are defined for the PAA:
- Every LED indicates a program section (program part).
 e.g. prewash washing rinsing final rinse drying end
- The corresponding PAA LED is flashing up pulsating (2sec. on /400msec. off). Only the "end" LED is lit permanently.

6.9.2. Input philosophy - displays (part 2)

All displays are designed as LED displays and are available depending on the appliance variant.

▲ for that see the figures of the input resp. output parts page B 1 / "Inputs and outputs"

• Information displays

- The LED position is depending on the programming of the variant. They can be programmed to any LED which is not programmed with a program or an option key.
- The LEDs are lit permanently from switching on the appliance by the ON/OFF key <u>S0</u>, until the moment of the successful program start. Furthermore, the LEDs are lit when the cycle end has been reached until the appliance is switched off.
- ✤ The display LEDs go out during the whole cycle run!
- LED display "salt"
 - ✤ LED is lit in case of a lack of salt
 - LED goes out when salt has been refilled (Depending on the salt dissolution it can take some time until the LED goes out.) Information: The LED display "salt" goes out with hardness range setting 1 (no regeneration necessary - indication in the display "1 L")
- LED display "rinse-aid"
 - ✤ LED is lit in case of a lack of rinse-aid
 - LED goes out after rinse-aid has been refilled
 - Information: The rinse-aid addition can be deactivated completely by the customer depending on the variant. This also deactivates the LED display "rinse-aid".
 - (see description page B 13 / "Deactivation of rinse-aid addition")
- When the option 3 in 1 has been selected (special tablet option), neither the "salt" LED nor the "rinse-aid" LED is selected.

• LED display "water"

- LED is lit when there is no or too less water filling into the appliance. A reason for that can be, for example, a closed water tap.
- The program is stopped and can be continued when the fault has been eliminated by actuating the program key.
 - (see also description page B 19 / "Survey of fault displays fault 10")

LED display "spraying arm"

- ✤ LED is lit with a blocked middle spraying arm.
- ♦ additionally acoustic signal
 - (see description page B 19 / "Survey of fault displays fault A0")
- LED display "door"
 - ✤ LED is lit when the door is open
 - $\,\,{\ensuremath{\diamondsuit}}$ Goes out automatically when door will be closed.

• LED display "sieve"

- * This LED is selected automatically after 20 washing cycles.
- LED is lit when the internal counter has reached 20 at the cycle end.
- Soes out when a new program has started internal counter is reset to 0.

6.10. Short survey of all customer, service and aftersales service functions



horizontal key arrangement

i LD19
LD20
i LD21
; LD22 /
' 📕 LD23 🖊
i LD24 /
345678

ATTENTION! In case of reduced key assemblies be sure to observe Description Page B1!

Who?	Which function?		Selection of special mode customer or service	Confirmation of the special mode		Call of special function	Detailled description
er	setting of water hardness	\rightarrow	press <u>S2</u> and <u>S3</u>		\rightarrow	press key <u>S2</u>	see page B 11
ustome	deactivation rinse-aid addition	\rightarrow	with ON/OFF <u>S1</u> → simultaneously and keep them pressed until	keys <u>S2</u> - <u>S4</u> are flashing	\rightarrow	press key <u>S3</u>	see page B 12
0	deactivation signal sound	\rightarrow	When calling the customer functions generally no washing cycle must be	ng the customer functions, o washing cycle must be selected			see page B 13
anufacturing / service	readout of fault memory single actuator selection	\rightarrow			\rightarrow	press key S2	see page B 14
	LED test with integrated deletion of fault memory	\rightarrow	press S2 and S4 simultaneously	LEDs of keys <u>S2</u> - <u>S4</u> are flashing	\rightarrow	press key S3	see page B 15
	manufacturing test routine	\rightarrow	and switch on appliance with ON/OFF <u>S1</u> . Keep keys S2 and S4 pressed for		\rightarrow	press key <u>S4</u>	see page B 16
	deactivation Pulse Wash	\rightarrow	another aprox. 4 seconds until		\rightarrow	press keys <u>S3</u> + <u>S4</u> , change <u>S3</u>	see page B 17
E	additional washing cycle	\rightarrow			\rightarrow	press keys <u>S2</u> + <u>S3</u> , change <u>S2</u>	see page B 18



6.11. Service function / setting of water hardness:

LD1 SA

LD1 is lit / LD2 - LD4 flas LD1 S1 LD4 S4

LD1 S1 LD4 S4

LD1 S1 LD4 S4

LD2 0 S2

LD3 0 S3

LD1 S4

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... automatically Off after 60 sec

LD2 🛛 🔿 S2

LD3 🛛 🔿 S3

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per key pressure

LD3 0 S3

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LD1 [C S1 LD4] S4

General information

- Setting and changing the water hardness range is executed in all designs resp. key arrangements analogously.
- For that you always have to use keys S1, S2 and S3 independent of their variant-depending program load.
- Key S2 is ALWAYS the "water hardness range key"
- The water hardness range value 4 is preset by the manufacturer.
- With setting "1L" it is generally not regenerated.
- A salt addition is not necessary.
- A possibly existing "salt" LED is not selected.

Electronic and mechanical setting with the appliance:

• In addition to the "electronic" setting on the control panel described on the right you also have to pay attention to the mechanical setting in the appliance by the 2-step blending switch. (see for that the table for hardness range values)



Table for hardness range values:

indication display	display End-LED	setting of	water hardness							comment	
	flashing acustic	elektronic	mechanic		in dH		ir	n mmol	L	area	
1L	1 time	1			bis	4		bis	0,7	1	no regeneration
2L	2 times	2		4	bis	10	0,7	bis	1,8	1/1	
3L	3 times	3	•	11	bis	14	1,9	bis	2,5		
4L	4 times	4	U	15	bis	18	2,6	bis	3,2		
5L	5 times	5		19	bis	22	3,3	bis	3,9		
6L	6 times	6		23	bis	28	4,0	bis	5,0		
7L	7 times	7		29	bis	36	5,1	bis	6,4		
8L	8 times	8		37	bis	42	6,5	bis	7,5	IV	
9L	9 times	9		43	bis	50	7,6	bis	8,9		
10L	10 times	10		51	bis	70	9,0	bis	12,5		double regeneration

Calling / changing / saving the "electronic" hardness range value

END

END

END

if no display abailable: coded flasching of

"END" LED

if no display

available:

coded flashing

if no display

available

coded flashing

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0

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OI

4L 0

5L 6L

10L 1L 2L

OI

3L 0

OI

0

IO

. Off by actuating On/Off manually

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END 2.

Calling the function "set water hardness"

- 1. Switch on appliance with ON/OFF key S1 LD1 display with ON/OFF key is lit.
- Press keys S2 and S3 simultaneously until the confirmation LEDs LD2, LD3 and LD4 are flashing LD1 display with ON/OFF key is lit.
- 3. By actuating the function key S2 you now can call the water hardness function. The confirmation LED LD2 continues flashing, LEDs LD3 and LD4 go out. The set hardness range is indicated in the display. If there is no display existing depending on variant, the value is indicated by a coded flashing of the "end" LED. (see for that the table on the left side of this page!)

Changing the set hardness

By any other actuation of the function key S2 you can change the hardness range. This increases the value scrollina.

(4L - 5L - 6L - ... - 10L - 1L - 2L - ...)

Leaving the function

4. After the last key pressure of function key S2 you can leave the special program as follows. After 60 seconds all displays go out automatically, except LD1 of the ON/OFF key or

the appliance is switched off by the ON/OFF key S1.

Saving the set water hardness

The selected hardness range is saved directly after anv entry.



6.12. Customer function / deactivation of rinse-aid addition:

General information

The function rinse-aid deactivation does not exist generally and must be programmed in the software variant.

- Deactivation resp. activation of rinse-aid addition is executed in all designs and key arrangements analogously.
- For that you always have to use keys <u>S1</u>, <u>S2</u> and <u>S3</u> independent of their variant-depending program load.
- + The key S3 is ALWAYS the "rinse-aid deactivation key"
- The rinse-aid addition is always set active by the manufacturer.
- If the rinse-aid addition is deactivated it means that no more rinse-aid is added via the detergent dispenser.
- Along with the deactivation, a variant-depending existing "rinse-aid" LED is deactivated generally.





Table for indications of condition on/off:

	indic	ation	
	display	"END"-LED	comment
_		if no display available on variant	
	1d	on	rinse-aid addition on
	Od	off	rinse-aid addition off

Calling / changing / saving the rinse-aid addition deactivation



... Off by actuating On/Off manually

- Calling the function "deactivate rinse-aid addition"
- 1. Switch on appliance with ON/OFF key <u>S1</u>. <u>LD1</u> display with ON/OFF key is lit.
- Press keys <u>S2</u> and <u>S3</u> simultaneously until the confirmation LEDs <u>LD2</u>, <u>LD3</u> and <u>LD4</u> are flashing <u>LD1</u> display with ON/OFF key is lit.
- By actuating the function key <u>S3</u> you now can call the function rinse-aid addition. The confirmation LED <u>LD3</u> continues flashing, LEDs <u>LD2</u> and <u>LD4</u> go out. The current condition whether the rinse-aid addition is active or not is indicated in the display. If there is no display available depending on variant, the value is indicated via the "END" LED.
 - (see for that the table on the left side of this page!)

Deactivation resp. activation of rinse-aid addition:

4. / 5. By any further actuation of the function key <u>S3</u> you can activate resp. deactivate the addition alternating.

Leaving the function

After the last key pressure of function key <u>S2</u> you can leave the special program as follows. After 60 seconds all displays go out automatically, except <u>LD1</u> of the ON/OFF key

or

the appliance is switched off by the ON/OFF key S1.

Saving the set condition

The condition is saved directly after any entry.



6.13. Customer function / deactivation of signal sound:

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General information

The function deactivation of the signal sound does not exist generally and must be programmed in the software variant.

- Deactivation resp. activation of the signal sound is executed in all designs and key arrangements analogously.
- For that you always have to use keys <u>S1</u>, <u>S2</u>, <u>S3</u> and <u>S4</u> independent of their variant-depending program load.
- The key <u>S4</u> is ALWAYS the "signal sound deactivation key"
- The signal sound at the cycle end is always set active by the manufacturer.
- If the signal sound is deactivated it means that in general no acoustic end signal will sound any more.
 The acoustic fault signals also cannot be heard any more!





Table for indication of condition on/off:

	indic	ation	
	display	"END"-LED	comment
_		if no display available depending on variant	comment
	1b	on	signal sound (buzzer) on
	Ob	off	signal sound (buzzer) off

Calling / changing / saving the signal sound deactivation



... Off by actuating On/Off manually

- Calling the function "deactive signal sound"
 - 1. Switch on appliance with ON/OFF key <u>S1</u> <u>LD1</u> display with ON/OFF key is lit.
- Press keys <u>S2</u> and <u>S3</u> simultaneously until the confirmation LEDs <u>LD2</u>, <u>LD3</u> and <u>LD4</u> are flashing <u>LD1</u> display with ON/OFF key is lit.
- By actuating the function key <u>S4</u> you now can call the function signal sound deactivation. The confirmation LED <u>LD4</u> continues flashing, LEDs <u>LD2</u> and <u>LD3</u> go out. The current condition whether the signal sound is active or not is indicated in the display.

If there is no display available depending on variant, the value is indicated by the "END" LED.

(see for that the table on the left side of this page!)

Deactivation resp. activation of the signal sound:

4. / 5. By any further actuation of the function key <u>S4</u> you can activate resp. deactivate the signal sound alternating.

Leaving the function

After the last key pressure of function key $\underline{S4}$ you can leave the special program as follows. After 60 seconds all displays go out automatically, except <u>LD1</u> of the ON/OFF key or

the appliance is switched off by the ON/OFF key $\underline{S1}$.

Saving the set condition

The condition is saved directly after any entry.

6.14.1. Service function / readout of fault memory and single actuator selection:

Calling above-mentioned service function (appliances with display)

General information

- Calling the service functions is executed in all designs resp. key arrangements analogously.
- For that you always have to use keys <u>S1</u>, <u>S2</u>, <u>S3</u> and <u>S4</u> independent of their variant-depending program load.
- In the service function mode, key <u>S2</u> is ALWAYS responsible for the function "readout of fault memory" and "single actuator selection".



 A considerable difference regarding the output is represented by appliance variants with resp. without display.

For this reason, this page describes the output for appliances with display.

Page 14.2. describes the output for appliances without display.

Always applicable:

In order to call the totality of service functions always first press the function keys <u>S2</u> and <u>S4</u> prior to switching the appliance on by means of ON/OFF switch <u>S1</u>! Keep the keys pressed for abt. 4 seconds in order to activate the function. This procedure is intentionally distinguished from those for the customer functions. **ATTENTION:** In case of reduced key assemblies be sure to observe Description Page B 1.

10 OI LD1 0 S1 LD4 54 LD2 <u>1, 9</u> \mathbb{I} LD3 0 S3 LD1 is lit / LD2 - LD4 fla IO OI \mathbb{I} IO/ 10 3. OI display flashing LD2 10 10 **آ** 0 ا JOI IO 10/ ™[(**K** kev pressure Indication 2. + 3. faul 1 advancing 4 LD1 is lit display and LD2 flashing Indication of single 10 LD1 is lit / LD2 flashing display flashing 4 10 IО i 0 IOLD1 S1 LD4 S4 10 OI IО IО LD2 [] 🔵 S2 0 \cap LD3 0 S3 IO \mathbb{I} ... automatically Off after 60 sec OI 10 IО 102 10 0 LD3 [] () IO $\square \bigcirc$ \cap ... Off by actuating On/Off manually

Calling the functions

"readout of fault memory" and "single actuator selection" 1. Press keys <u>S2</u> and <u>S4</u> simultaneously and ...

 ... and switch on the appliance by ON/OFF switch <u>S1</u>. For that keep the keys <u>S2</u> and <u>S4</u> pressed simultaneously until the 3 confirmation LEDs <u>LD2</u>, <u>LD3</u> and <u>LD4</u> are flashing. (about 4 seconds) The <u>LD1</u> display with ON/OFF key is lit. (A temporary flashing up of LEDs is possible and no fault!)

3. / 4. By actuating the function key S2 you now can call the function. The confirmation LED LD2 is flashing and the ON/OFF LED continues to be lit. LEDs LD3 and LD4 go out. The first value of the fault memory is indicated in the display. The display indication is flashing. By any further actuation of the function key S2 it is possible to call the next step and indicate it in the display as follows. 2. actuation: Display of second value of the fault memory 3. actuation: Display of third value of the fault memory (see description page B 19 / "Survey of fault displays") 4. actuation: Display "4" - selection of regeneration valve 5. actuation: Display "5" - selection of drain pump 6. actuation: Display "6" - selection of valve (filling to level - if level already existing, no filling) 7. actuation: Display "7" - selection of heating (only when level detected) 8. actuation: Display "8" - selection of circulation pump 9. actuation: Display "9" - selection of detergent dispenser 10.actuation: Display "10" - selection of drying fan 11.actuation: Display "11" - selection of auto-dosing (is currently not used) 12.actuation: Display "12" - selection of water hardness sensor (is currently not used) All positions can be called scrolling as many times as one wants.

The various steps are switched onward manually by pressing the key. If the function key <u>S2</u> is not pressed within 60 seconds, the service function is left automatically. All displays except the <u>LD1</u> LED of the ON/OFF key go out. It is also possible to leave the function by switching off the appliance using the ON/OFF key <u>S1</u>.

6.14.2. Service function / readout of fault memory and single actuator selection:

General information

- Calling the service functions is executed in all designs resp. key arrangements analogously.
- For that you always have to use keys <u>S1</u>, <u>S2</u>, <u>S3</u> and <u>S4</u> indepedent of their variant-depending program load.
- In the service function mode, key <u>S2</u> is ALWAYS responsible for the functions "readout of fault memory" and "single actuator selection".



 A considerable difference regarding the output is represented by appliance variants with resp. without display.
 For this reason, this page describes the output for appliances without display.

Page 14.1. describes the output for appliances with display.

Always applicable:

In order to call the totality of service functions always first press the function keys <u>S2</u> and <u>S4</u> prior to switching the appliance on by means of ON/OFF switch <u>S1</u>! Keep the keys pressed for abt. 4 seconds in order to activate the function. This procedure is intentionally distinguished from those for the customer functions. **ATTENTION:** In case of reduced key assemblies be sure to observe Description Page B 1.



Calling the functions

Calling above-mentioned service function (appliances without display)

"readout of fault memory" and "single actuator selection"
Press keys <u>S2</u> and <u>S4</u> simultaneously and ...

- ... and switch on the appliance by ON/OFF switch <u>S1</u>. For that keep the keys <u>S2</u> and <u>S4</u> pressed simultaneously until the 3 confirmation LEDs <u>LD2</u>, <u>LD3</u> and <u>LD4</u> are flashing. (about 4 seconds). The <u>LD1</u> display with ON/OFF key is lit. (A temporary flashing up of LEDs is possible and no fault!)
- 3. / 4. By actuating the function key S2 you now can call the function. The confirmation LED LD2 is flashing and the ON/OFF LED continues flashing. LEDs LD3 and LD4 go out. The first pressure on key S2 is indicated by the "END" LED. By the second and third key pressure on S2 it is possible to read out the second and third value of the fault memory. (see description page B 19 / "Survey of fault displays") From the 4, key pressure onward on key S2 the LED LD2 goes out and the LD3 starts flashing. Now you can call the single actuators one after the other. 4. actuation: selection of regeneration valve 5. actuation: selection of drain pump 6. actuation: selection of the valve (filling to level - if leavel already existing, no filling) 7. actuation: selection of heating (only when level detected) 8. actuation: selection of circulation pump 9. actuation: selection of detergent dispenser 10.actuation: selection of drying fan 11.actuation: selection of auto-dosing (is currently not used) 12.actuation: selection of water hardness sensor (is currently not used) All positions can be called scrolling as many times as one wants.

The various steps are switched onward manually. If the function key $\underline{S2}$ is not pressed within 60 seconds, the service function is left automatically. All displays go out except the $\underline{LD1}$ LED of the ON/OFF key. It is also possible to leave the function by switching off the appliance using the ON/OFF key $\underline{S1}$.

6.15. Service function / LED test with integrated deletion of the fault memory:

General information

- Calling the service functions is executed in all designs resp. key arrangements analogously.
- For that you always have to use keys <u>S1</u>, <u>S2</u>, <u>S3</u> and <u>S4</u> independent of their variant-depending program load.
- In the service function mode, key <u>S3</u> is ALWAYS responsible for the function "LED test with integrated deletion of the fault memory".

vertical key arrangement



Calling above-mentioned service function



Calling the functions

"LED test with integrated deletion of the fault memory"

- 1. Press keys <u>S2</u> and <u>S4</u> simultaneously and ...
- ... and switch on the appliance by ON/OFF switch <u>S1</u>.
 For that keep the keys <u>S2</u> and <u>S4</u> pressed simultaneously until the 3 confirmation LEDs <u>LD2</u>, <u>LD3</u> and <u>LD4</u> are flashing. (about 4 seconds) The <u>LD1</u> display with ON/OFF key is lit. (A temporary flashing up of LEDs is possible and no fault!)
- **3.** By actuating the function key <u>S3</u> you now can call the function.

All LEDs (except LD1) and "188" in the display are flashing about 30 seconds.

Furthermore, if available depending on variant and if active, the signal sound is indicated during the whole flashing time.

Leaving the function / deletion of the fault memory

When all above-mentioned LEDs resp. the display have been flashing for about 30 seconds, the function will be left automatically. The appliance is in the "prestart" mode again. The function can be left even earlier by switching off the appliance by the ON/OFF key <u>S1</u>.

In any case, the service fault memory is deleted.

Always applicable:

In order to call the totality of service functions always first press the function keys <u>S2</u> and <u>S4</u> prior to switching the appliance on by means of ON/OFF switch <u>S1</u>! Keep the keys pressed for abt. 4 seconds in order to activate the function. This procedure is intentionally distinguished from those for the customer functions. **ATTENTION:** In case of reduced key assemblies be sure to observe Description Page B 1.

6.16. Service function / manufacturing test routine:

General information

- Calling the service functions is executed in all designs resp. key arrangements analogously.
- For that you always have to use keys <u>S1</u>, <u>S2</u>, <u>S3</u> and <u>S4</u> independent of their variant-depending program load.
- In the service function mode, key <u>S4</u> is ALWAYS responsible for calling the "manufacturing test routine"





Calling the function "manufacturing test routine"

- 1. Press keys <u>S2</u> and <u>S4</u> simultaneously and ...
- ... and switch on the appliance with ON/OFF switch <u>S1</u>. For that keep the keys <u>S2</u> and <u>S4</u> pressed simultaneously until the 3 confirmation LEDs <u>LD2</u>, <u>LD3</u> and <u>LD4</u> are flashing. (about 4 seconds) The <u>LD1</u> display with ON/OFF key is lit. (A temporary flashing up of LEDs is possible and no fault!)
- By actuating the function key <u>S4</u> you now can call the manufacturing test routine. The confirmation LED <u>LD4</u> is flashing and the ON/OFF LED continues to be lit, LEDs <u>LD2</u> and <u>LD3</u> go out.
- The test routine starts automatically. Following displays are available depending on the variant of equipment.

The run time LED is flashing up. The display indicates the presumable run time. The corresponding PAA LEDs are lit.

From that moment the same input philosophy is valid for the manufacturing test routine as for normal washing cycles, but the program LED <u>LD4</u> is flashing until the end of the manufacturing test routine.

- cycle run and cycle end
 - (see description page B 5)
 - delete cycle in advance
 - (see description page B 6)
- interrupt program
 - (see description page B 8)

Always applicable:

In order to call the totality of service functions always first press the function keys <u>S2</u> and <u>S4</u> prior to switching the appliance on by means of ON/OFF switch <u>S1</u>! Keep the keys pressed for abt. 4 seconds in order to activate the function. This procedure is intentionally distinguished from those for the customer functions. **ATTENTION:** In case of reduced key assemblies be sure to observe Description Page B 1. Calling above-mentioned service function

6.17. Service function / disconnection pulse wash

General information

- Calling the Service Functions is similar with all designs or key arrangements.
- Always use the keys <u>S1</u>, <u>S2</u>, <u>S3</u> and <u>S4</u> independently from their program assignment depending on the model.
- In service function mode, you can ALWAYS call the Pulse Wash function by using keys <u>S3</u> and <u>S4</u>. Use key <u>S3</u> to modify the setting.
- From works settings, Pulse Wash is always set to be active.



- If you deselect Pulse Wash the rot.speeds of the circul. pump are always increased to "High Pulse Speed".
 Water consumption slightly increases. Extension of time is possible depending on the temperature.
- Table for the indication of on/off status:

indic	ation			
display	"End"-LED	comment		
	if no display available depending on variant	comment		
1P	on	Pulse Wash is activ		
0P	off	Pulse Wash is switched off		

Always applicable:

In order to call the totality of service functions always first press the function keys <u>S2</u> and <u>S4</u> prior to switching the appliance on by means of ON/OFF switch <u>S1</u>! Keep the keys pressed for abt. 4 seconds in order to activate the function. This procedure is intentionally distinguished from those for the customer functions. **ATTENTION:** In case of reduced key assemblies be sure to observe Description Page B 1. Calling above-mentioned service function



Calling the function "Switch OFF Pulse Wash"

- 1. Simultaneously press <u>S2</u> and <u>S4</u> and ...
- ... switch on the appliance with ON/OFF switch <u>S1.</u> Keep keys <u>S2</u> and <u>S4</u> pressed simultaneously until the 3 acknowledging LEDs <u>LD2</u>, <u>LD3</u> and <u>LD4</u> are flashing. (for abt. 4 seconds). Indicator <u>LD1</u> at ON/OFF key lights up. (Short-time illumination of LEDs is possible and does not constitute any fault)
- Simultaneously press <u>S3</u> and <u>S4</u> until the acknowledging LED <u>LD3</u> is flashing. LEDs <u>LD2</u> and <u>LD4</u> will go dark. Indicator <u>LD1</u> at ON/OFF key is lit. The current status whether Pulse Wash is active or not is indicated in the display. If there is no display available on the model, the value is indicated by means of LED "End" (also refer to Table left on this page)

Switching the Pulse Wash Function on or off:

 Any further activation of function key <u>S3</u> will switch the addition alternately on or off.

Abandoning the function

After the last activation of function key <u>S3</u> you can leave the special program as follows: After 60 seconds automatically all indications will go dark, except for the <u>LD1</u> of the ON/OFF key or you switch the appliance off by means of ON/OFF key S1.

Saving the status settings

Immediately after each input of data, the currently valid status will be saved.

6.18. Service function / additional rinsing process

General information

- Calling the Service Functions is similar with all designs or key arrangements.
- Always use the keys <u>S1</u>, <u>S2</u>, <u>S3</u> and <u>S4</u> independently from their program assignment depending on the model.
- In service function mode, you can ALWAYS call "Selection of an Add. Wash Cycle" with key combination <u>S2</u> and <u>S3.</u> Use key S2 to modify the settings.
- From the works settings, no additional wash cycle is set.



• If this function is activated, an additional wash cycle is ALWAYS added, except for "prewash extra".

This will extend program run times up to about 10 minutes. This additional wash cycle will be executed until the function is deactivated again.

Table for the indication of on/off status:

indic	ation	
display	"End"-LED	comment
	if no display available depending on variant	comment
1d	on	Additional wash cycle selected
0d	off	No addititonal wash cycle

Always applicable:

In order to call the totality of service functions always first press the function keys <u>S2</u> and <u>S4</u> prior to switching the appliance on by means of ON/OFF switch <u>S1</u>! Keep the keys pressed for abt. 4 seconds in order to activate the function. This procedure is intentionally distinguished from those for the customer functions. **ATTENTION:** In case of reduced key assemblies be sure to observe Description Page B 1.

Calling above-mentioned service function



Calling the function "Additional Wash Cycle"

- 1. Simultaneously press <u>S2</u> and <u>S4</u> and ...
- ... switch on the appliance with ON/OFF switch <u>S1.</u> Keep keys <u>S2</u> and <u>S4</u> pressed simultaneously until the 3 acknowledging LEDs <u>LD2</u>, <u>LD3</u> and <u>LD4</u> are flashing. (for abt. 4 seconds). Indicator <u>LD1</u> at ON/OFF key lights up. (Short-time illumination of LEDs is possible and does not constitute any fault)
- 3. Simultaneously press S2 and S3 until the acknowledging LED LED LD3 is flashing. LEDs LD3 and LD4 will go dark. Indicator LD1 at ON/OFF key is lit. The current status whether the additional wash cycle is activated or not, is indicated in the display. If no display is available on this model, the value is indicated by means of the "End" LED. (also refer to Table left on this page)

Switching this function on or off:

4. / 5. Any further activation of function key <u>S2</u> will switch the addition alternately on or off.

Abandoning the function

After the last activation of function key <u>S2</u> you can leave the special program as follows: After 60 seconds automatically all indications will go dark, except for the <u>LD1</u> of the ON/OFF key or you switch the appliance off by means of ON/OFF key S1.

Saving the status settings

Immediately after each input of data, the currently valid status will be saved.

Overview Errors Displayed

Applicable for EDW1500 / 1503 (VGA) -- EDW1100 / 1003 (VGA) -- EDW2000

Error Name	Display on Screen	Display by END LED	Acoustic Indication No.of Beeps	Error Dis visible Custome	play for er**	Call Error Memory (Service)		Output via Indicator Lamp	Short Explanation	What happens?
		2Hz / 5sec. Pause	2Hz / 5sec. Pause	Display PAA	AK	Display PAA	AK			
	EDW 1500	EDW1100	If available for this model					If available for this model		
Water tap closed	10	1 x flashing	1 x	٢	٢	٢	٢	LED Water	Switchpoint of pressostat is not reached after max. 60 secs. (only in programme steps incl. Filling up to level!)	Programme stops and can be continued after error remedy by pressing the programme key. If fault is not corrected and programme key is pressed, the machine runs dry until next subprogramme.
Drain pump	·20	2 x flashing	2 x	٢	٢	٢	٢		Reset point of pressostat is not reached after max. 120secs. Programme stop.	Programme stops and can be continued after error remedy by pressing the programme key.
Aqua-Control	•30	3 x flashing	3 x	٢	٢	٢	٢		Aqua-Control System switches off solenoid directly.	Programme stops and restarts automatically when error has terminated.
Recycling pump Triac short-circuit	·50	5 x flashing	5 x	٢		٢	٢		Tacho signals are recognized although rec. pump is not selected.	Programme stops and water is filled up until reset point of pressostat
Heating	·60	6 x flashing	6 x			٢	٢		During heating, temperature rise by min. 1.5K is not detected within 3min.	Programme is continued until its end without heating function!
NTC Sensor	סר _י	7 x flashing	7 x			٢	٢		NTC short-circuit or break.	Programme is continued until its end without heating function!
EEPROM	·80	8 x flashing	8 x	☺?					Communication error with ext. EEPROM	
Check sum MCF / CCF	·90	9 x flashing	9 x			٢	٢		Check sum (model programming) MCF or Check sum CCF not OK. Only recognized after switching on!	Programme selection not possible. On/Off LED is on
Sprayarm blocked	.RD	10 x flashing	10 x		٢	٢	٢	LED Spray arm	At programme start and each subprogramme start, also after door open/close or mains failure, spray arm rotation is checked and evaluated.	Error display until sprayarm speed is recognized, or if no control.
Turpidity sensor	ιЬΟ	11 x flashing	11 x			٢	\odot		The turbidity signal required for calibration is not reached with 15secs.	Always recognition of turbidity. Programme sequence is adapted accordingly.
Communication error	،٤٥	12 x flashing	12 x			٢	٢		Communication failure with User Interface.	Machine stops, waiting until communication is cleared.
Tacho	ıdD	13 x flashing	13 x			0	٢		Recycling pump selected, but no tacho signal recognized for 5 + 20 secs	Recycling pump without control, heating off. This function is checked again on each step.
Filling time error	.FD	15 x flashing	15 x			٢	٢		Time limit during filling exceeded	Programme is completed until next subprogramme without level. No further filling up of water top up. Error is reset after one complete drain cycle.

** = If 7-Segment display available, no PAA error display/Sound error display generally with VGA, with other machines depending on model

List of Possible Error Causes

Code	Possible error causes							
		Water tap is closed or faulty						
		No water pressure, pressure too low or changing						
		Screen in non to mer valve clogged						
	No or not enough water let	n Intervalve faulty						
		Inlet valve deenergized (faulty wiring or no activation by electronics)						
:10		Inlet hose bent						
110		Solverier system cogged (by limit) delegent mo sal compariment, for instance) Ubright installation without uprind assembly kit						
	Machine runs dry (Siphor	Connection height of the discharge hose is lower than 30cm above appliance base						
		Connection w/o siphon or air chamber						
	Water level inside appliance	Pressure controller faulty						
	not detected	Pressure controller wing is faulty						
		Screens in the appliance clogged (also check spray arm nozzles for clogging)						
		Fault with discharge pump						
		Uischarge pump deenergized (raulity wining or no activation by electronics) Obstruction/blocking (filters in the andiance discharge discharge trough discharge nump, discharge bose sinhon, cover plug at						
	Water is not pumped off	Siphon connection not removed during first commissioning)						
i20		Discharge hose bent or connection height above 100cm						
		Ball valve in discharge trough glued / blocked (discharge pump does not aerate)						
	Water level inside appliance	Pressure controller tauty B Pressure controller toose obstructed or bent						
	not detected	Insulation fault with heating element						
	Leakage	Leakage at recipient, discharge trough, hose system (e.g., Y-type hose), regeneration dosage etc.						
		Inter valve faulty (does not close)						
		valer mer too nign (datus) now governon at met valve) Connection hose regenerating dosina to discharge trough blocked						
	Water remains	Water inlet channels in regeneration dosing unit blocked						
i30	in base trough Overflow	Screens in the appliance clogged (also check spray arm nozzles for clogging)						
		Pressure controller faulty						
		Pressure controller wing is faulty						
		Foam production in the appliance (splashed rinsing liquid / leaking dosing unit or con-compatible detergent / rinsing agent used)						
	Base trough is dry	Inlet valve or wiring electrically interrupted						
150	Motor triac short-circuit	Faulty electronics						
i60	No rise in temperature	Heating element rauity Heating element deenergized (faulty wiring or no activation by electronics)						
i70	NTC signal faulty	Thermal sensor defect						
170	in o olginar radity	Wring faulty (e.g. short-circuit or interruption)						
i80	Check sum error EEPRO	Mains filter derect						
		EMC problem						
i90	Check sum error model	Faulty electronics						
100	programmation	Ne fe						
		biocking by dishes or cutery basket Nozzles cloqued (drive nozzles at snrav arm extremities)						
		Spray arm leaking (welding seam)						
	Upper spray arm does no	Spray arm bearing blocked (dirt, foreign bodies)						
	rotate	Screens in the appliance clogged						
iA0		Circulating pupe hot sealed at recipient real wan (belows not contacting guest obgener) Circulating pupe does not reach full power (nominal speed is not reached due to winding influence)						
		Too little water in appliance - for possible causes see Error codes i10 and iF0						
		Foam production in the appliance (splashed rinsing liquid / leaking dosing unit or con-compatible detergent / rinsing agent used)						
	No spray arm detection	No magnet in spray arm						
		Wring faulty						
		turbidity sensor defect						
ib0	turbidity signal faulty	Wring faulty						
		Foam production in the appliance (splashed rinsing liquid / leaking dosing unit or con-compatible detergent / rinsing agent used)						
jc0	communication faulty	Faulty electronics						
		Wiring taulty Circulation pump / capacitor defect						
:-10	Circulation pump no function	n Circulating pump / capacitio delect						
ιαυ	No tacho signal	Tachometer generator defect						
	recognized	Wiring faulty Deblem with webs into in second and a free and it is in the effect in a strictly failer but for a second strict.						
		Problem with water inlet in general - see Error code 110, pipette effect in particular (also look for an error memory entry 110)						
iF0	Time limit during filling	Problem by incomplete pumping in previous program cycle (remaining water) - see Error code i20 (also look for an error memory entry i20)						
	evreenen	Improper loading, e.g. big item (pot, bowl is reversed and fills with water)						
		Foam production in the appliance (splashed rinsing liquid / leaking dosing unit or con-compatible detergent / rinsing agent used)						





111 10 30-00

)oor switch	k5	Interference filter
Rinse aid	m3	Drain pump
Salt aid	m4	Transformer
<i>l</i> icro switch	m8	Circulation pump
leating relay	m18	Drying fan
iqua control	r13	Internal heater
ITC	s9	Regeneration valve
Pressure Switch	s11	Cold valve
Safty pressure switch	T>	Turbidity sensor
nternal lighting	Х	Conn

C07-01 EDW2000 - Dokumentation / Programmtechnik

1. The New Options

• Selection by using option key - "3 in 1"



- If you add option "3 in 1" to a wash cycle ...
 - ... water hardness setting is automatically adjusted to lowest grade (water hardness 1) device-internally. There is no regeneration.
 - ... LED Salt is switched off.
 - ... rinse-aid dosing is switched off.
 - ... LED rinse-aid is switched off.

To which programmes can you add this option?

- "3 in 1" can be selected with all wash cycles, except for the two programmes
 - ... prewash extra
 - ... Warm Plates

What are the changes during the programme run?

- All short cycles (such as E-L-R, ...) are prolonged by about 5 to 7 minutes.
- All intermediate wash cycles are also shorter.
- Rinse-aid is with at least 65°C or 68°C.
 Drying time is reduced by about 10 to 20 minutes if possible.
- All Energylabel programmes (AAx, BAB, ...) contain at least one cleaning temperature of 55°C

• Selection by using option key - "Sanitize"

To which programmes can you add this option?

• "Sanitize" can be added to all wash cycles.

What are the changes during the programme run?

- In the last wash cycle, heating up to 68°C and maintaining this temperature for at least 10 minutes.
- This brings about a longer programme run time depending on the programme and the temperature each.