

DISHWASHER



55 cm

EDW 1100
EDW 1500
EDW 1503
EDW 2500



Dishwasher



55 cm

EDW 1100
EDW 1500
EDW 1503
EDW 2500

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1. Maße / Installation / Einbauhinweise

General

The dishwasher is supplied ready for installation, i.e. with power cable, discharge hose and admission hose with incorporated sieve and sealing.

Installation is at the connections provided for this purpose in the adjacent cupboard (not directly behind the appliance!).

Observe the regulations of the local waterworks and electrical power supply facilities!

Do not lay down the appliance! The built-in water softener contains water which could drain off.

Water installation

Inlet :

You can connect the appliance to both cold and hot water (max. 65 °C).

Water pressure: 1 to 10 bars

A shut-off control element of connection 3/4" should be provided by the Customer.

The inlet hose consists of high-quality plastic with approved compressive and buckling resistance. A sieve is incorporated on the connection side to eliminate contamination from the supply network, as well as a rubber seal.

When making the connection, take care that sieve and seal are in their correct positions.

After opening the shut-off control, no water is allowed to leak from the threaded joint!

With hot water connection in particular, slightly retighten the screwed joint after some minutes of operation (do not use force) once the connection has sufficiently heated up.

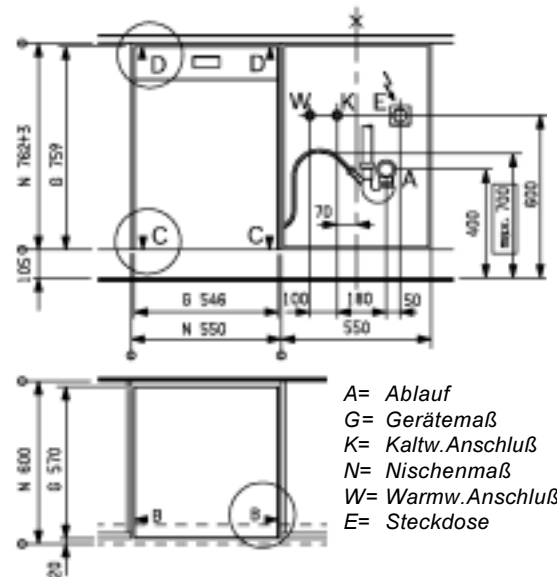
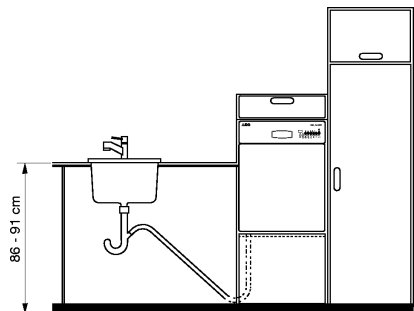
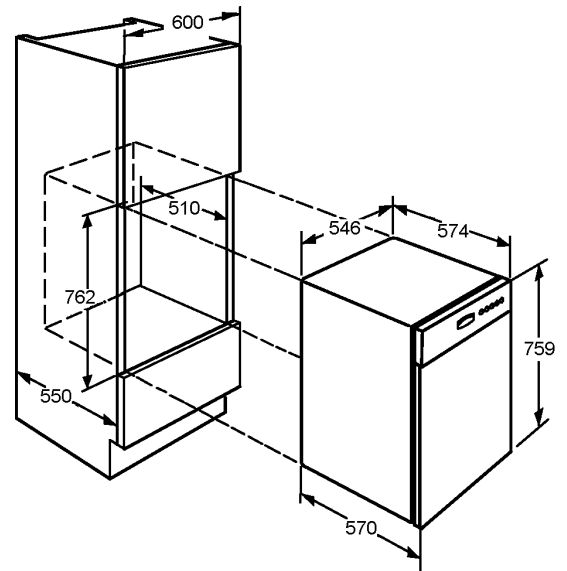
Drain:

Install the flexible drainage hose without buckles.

Installation is at the drain trap of the sink drain pipe installed in the adjacent cupboard.

The appliance is provided with a non-return device which allows for installation height of the appliance even above drain trap level.

The highest point of the drainage hose may never exceed the overall height of the appliance.

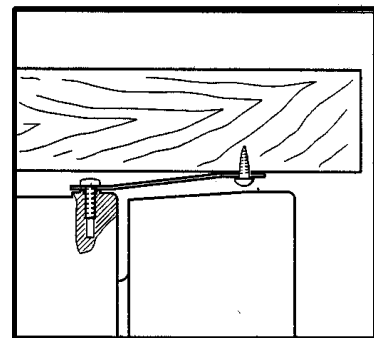
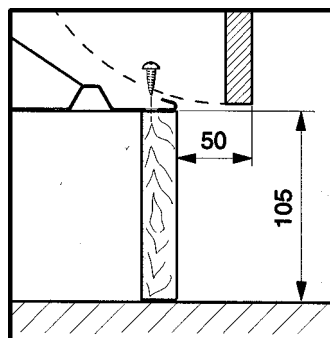
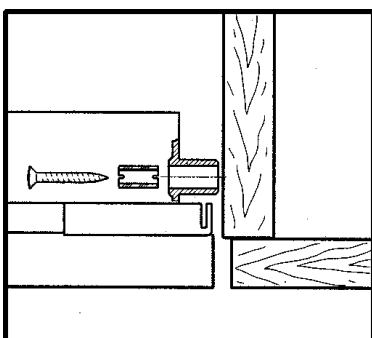


Installation

- Align the dishwasher and secure it at both sides in the upper part of the washing compartment shell.

Optional fitting positions: at the base

- Optional accessories available: Additional lugs at the cover (Part No. 153 0402-0113)



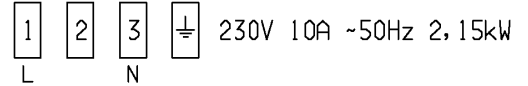
2. Electrical connection

A licensed electrical fitter should install the connection to the mains!

The appliance is provided with a power cable 3 x 1 mm² with injection-moulded plug (type 13).

You should connect the dishwasher to the mains by means of a plug, or an all-pole-switch of a minimum of 3mm contact distance should be provided within the fixed installation for isolation from the mains.

Circuit: Radiator voltage 230 V



Installation on the part of the customer:

Install fuse, feeder and socket according to the wiring schematic.

Safety Instructions

Attention : Whenever intervention into the machine becomes necessary, observe all safety precautions mentioned in DIN/VDE 0701 (repair-related) and/or VDE 0700/ICE 65 (appliance-related).

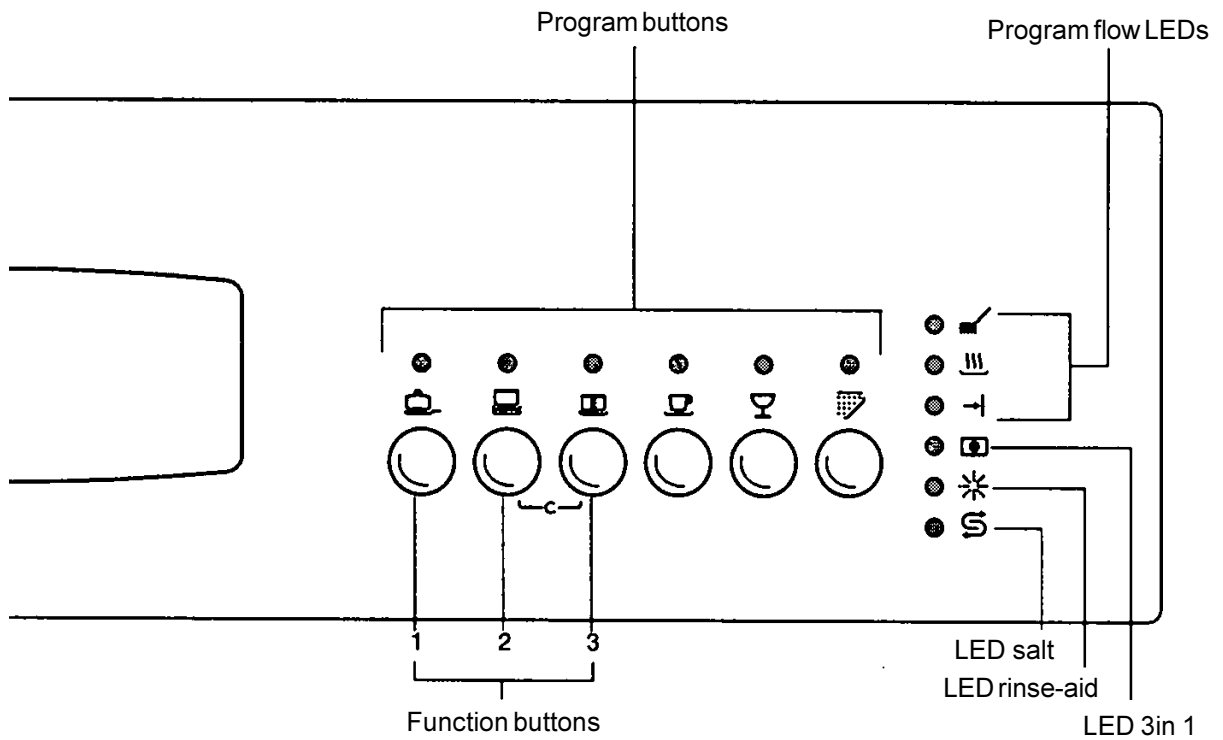
Components are in accordance with IEC and/or VDE directives! For replacements use parts of the same specification only.

With control systems provided with MOS modules, use parts of the same specification only.

Observe all MOS regulations when handling MOS components

Only carry out mechanical repairs or checks of mechanical components when these are dead.

3.1. Control panel EDW 1100



Program buttons

Function buttons:

- Function button 1** Setting of Water hardness
- Function button 2** Activation/deactivation of rinse aid addition (3 in 1)
- Function button 3** -

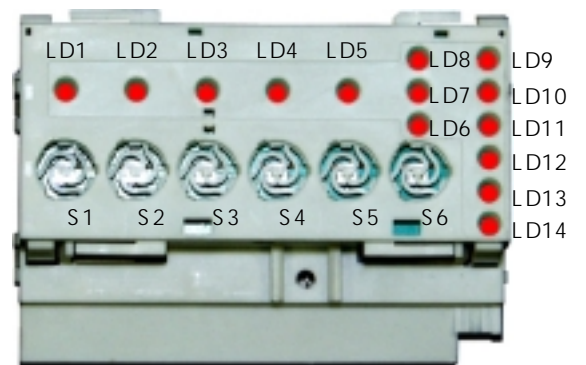
Program flow LEDs:

The program flow LEDs indicate the active subprogram

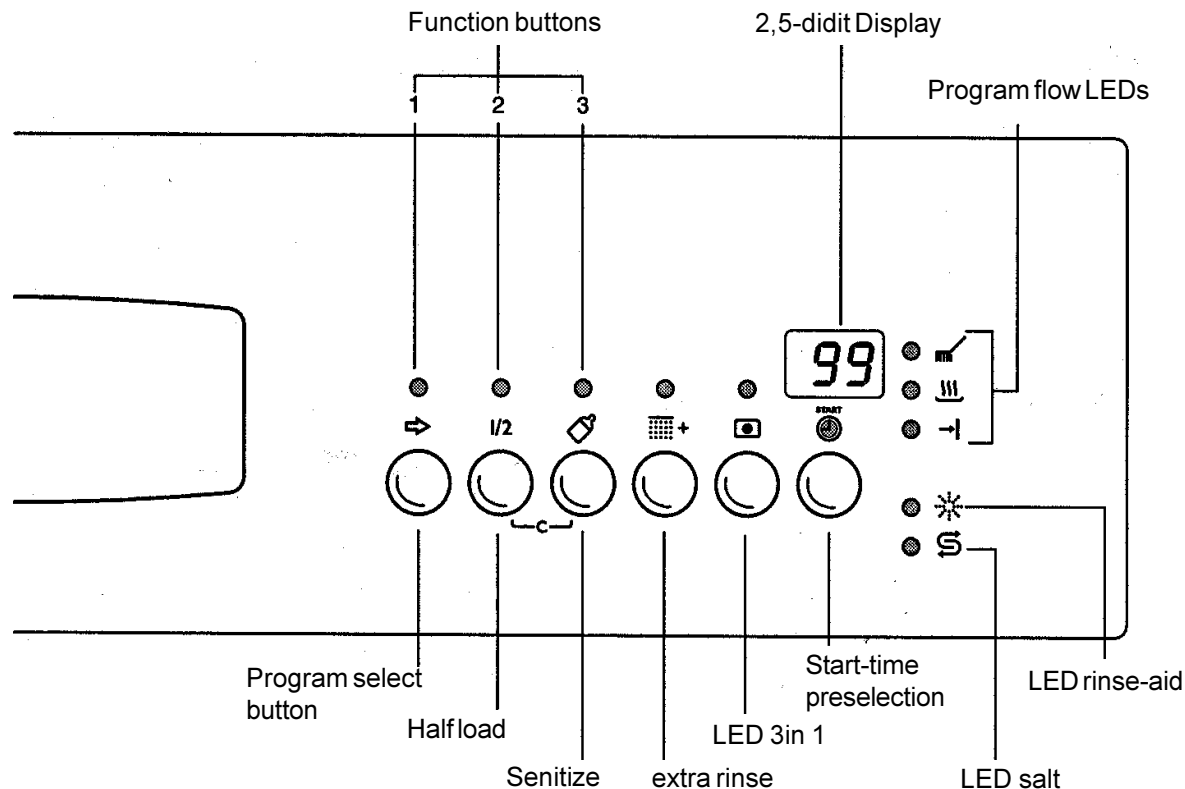
Electronic EDW 1100

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

The heating is switched by a relay on the electronic board.



3.2. Control panel EDW 1500



Function buttons:

- Function button 1** Setting of Water hardness
- Function button 2** Activation/deactivation of rinse aid addition
- Function button 3** Activation/deactivation of signal sound

Displays:

- Indication of start time via 2.5-digit display
- Indication between 1 and 19 hours (in steps of 1h)
- Indication of remaining run time via 2.5-digit display (maximum indication of run time "199")
- LED display for salt, rinse-aid, „water tap closed“ and END.

Program flow LEDs:

The program flow LEDs indicate the active subprogram

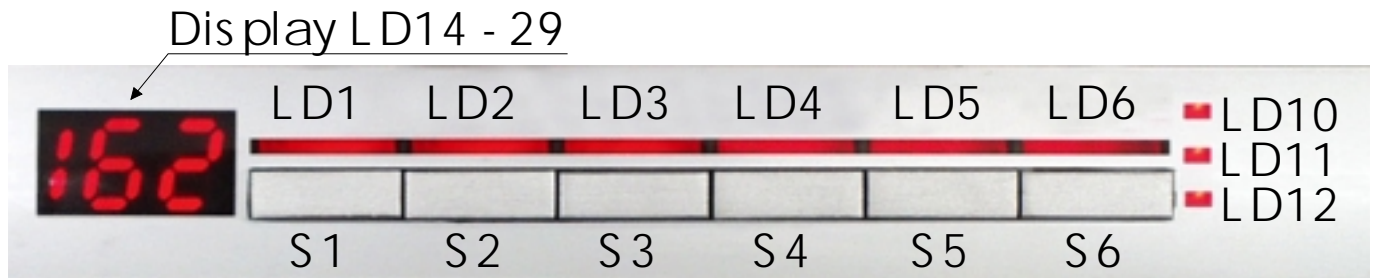
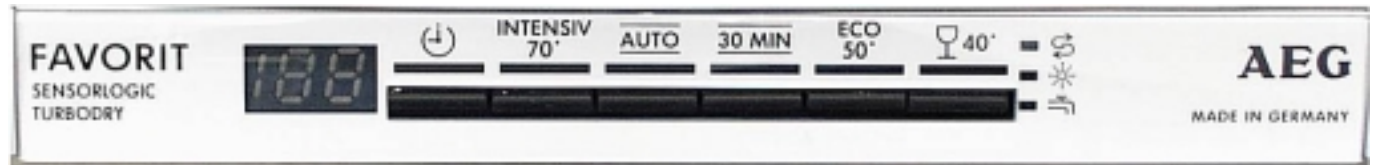
Electronic EDW 1500

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

The heating is switched by a relay on the electronic board.



3.3. Control panel EDW 1503



Separate ON/OFF switch without optical confirmation.

6 keys S1 to S6 to select programs or options with the corresponding LEDs

2,5-digit display and 3 LEDs (LD10 to LD12)

Indication of start time via 2.5-digit display

Indication between 1 and 19 hours (in steps of 1h)

Indication of remaining run time via 2.5-digit display (maximum indication of run time "199")

LED display for salt, rinse-aid, „water tap closed“ and END.

• regeneration on need • manufacturing test routine • several service functions

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)
- senitize

Electronic EDW 1503

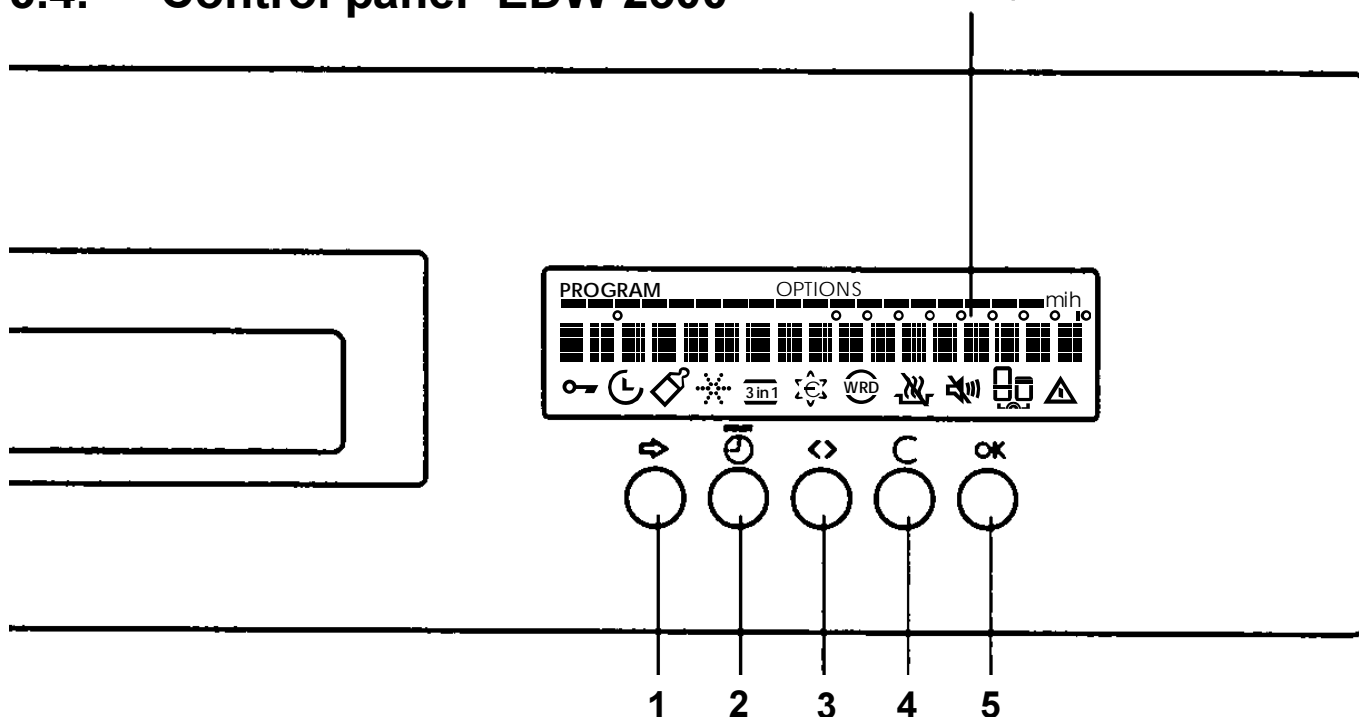
On electronic models, a micro processor controls all components, this is done using triacs. The electronic also memorizes all programme data.

The heating is switched by a relay on the electronic board.



3.4. Control panel EDW 2500

Display



1. Button - Programs

Selection up and down within a menu
Change to and from an adjustment value (e.g. water hardness)

2. Button - Start-time preselection

Start-time preselection 1 to 19 hours.

3. Button - Options

Switch between the menu "Programs" and the menu "Options" or "Settings"
During a running dishwashing program, the display can be switched between the active program step display and the selected dishwashing program.

4. Button - Cancel

Aborting a running dishwashing program

5. Button - OK

Start program

Switching between ON and OFF with switchable functions (e.g. clear rinse)

Commence the setting process and complete with adjustable functions

Acknowledging a selection

Detailed descriptions of EDW 2500 see page 40 - 51 (chapter 8.4.1 -9.1.2)

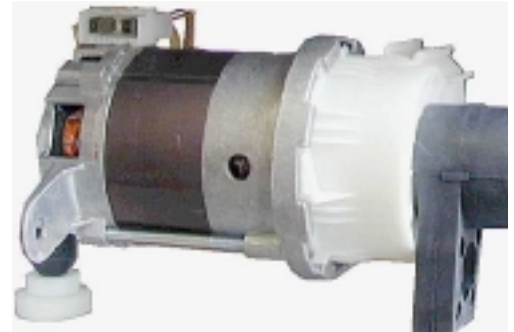
4. Components

4.1 Circulation Pump

The circulation pump is driven by an asynchronous motor with an auxiliary winding. The auxiliary winding is in circuit with a 3 mF capacitor. A tachogenerator is used for speed control. There are three speeds for rinsing. 1600 1/min, to 2800 1/min, Power output 50 W.

Coil resistances

| | |
|--------------|-------------|
| Main winding | 38 Ohm |
| aux. winding | 110 Ohm |
| Tacho | ca. 220 Ohm |



4.2 Drain Pump

The drain pump is driven by a synchronous motor.

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

Flap trap



4.3 Flow Heater

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

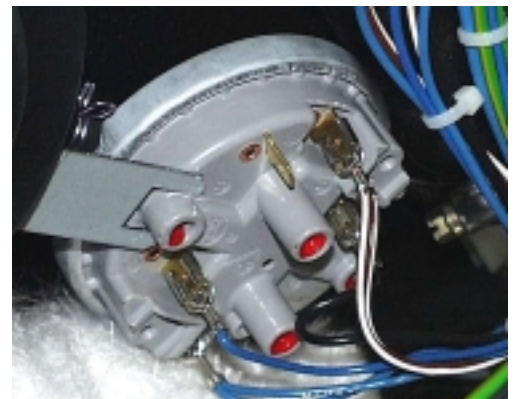
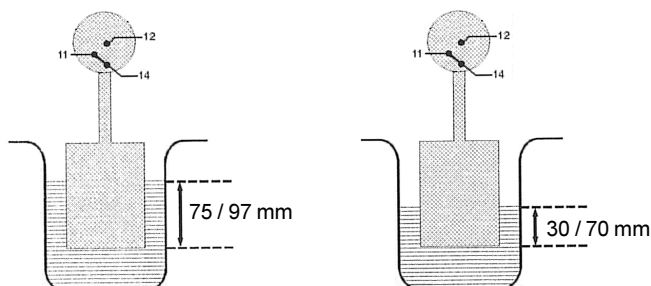
| | |
|--------------|-------------|
| Power output | 2100 W |
| Resistor | 25 Ω |
| Protector | 98 °C ± 5 K |
| Thermal fuse | 260 °C |



4.4 Pressure Switch

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

Niv 1 = Switch point 75 mmWS / Reset point 30 mmWS
Niv 2 = Switch point 97 mmWS / Reset point 70 mmWS



4.5 Detergent dispenser

Dosing of detergent

prewash 10 ml
wash 20 - 30 ml

Dosing of rinse aid

position 1 - 6 2 ml - 7 ml

Capacity

140 ml

dosing of rinse-aid

maximum filling level

outlet of rinse-aid

detergent tray

detergent tray for pre wash

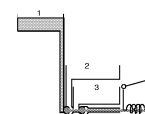


coil

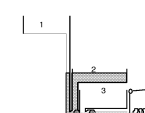


The detergent compartment 1 is filling corresponding to the set dosing quantity when the door is open. Possibly existing rinse-aid in compartments 2 and 3 flows back into the storage tank of the rinse-aid. The detergent trays are filled up. The door will be closed and the detergent for prewash will be rinsed out through the slots in the detergent dispenser cover.

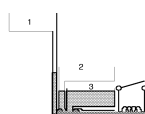
coil



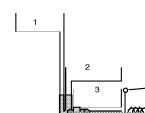
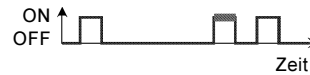
During the washing cycle the coil is switched on and the detergent compartment cover releases the detergent. The rinse-aid flows from compartment 1 into compartment 2.



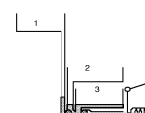
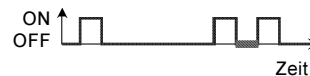
After switching off the coil, the rinse-aid flows from compartment 2 into compartment 3.



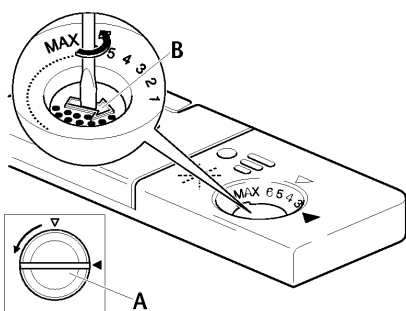
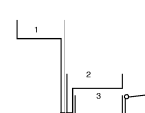
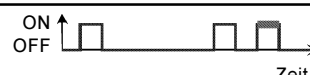
During the rinse cycle, the coil will be switched on when the rinse is warmed and the rinse-aid runs from compartment 3 into the rinse tank. At the same time, the remaining rinse-aid (15 %) runs from compartment 1 into compartment 2.



With the coil switched off, the rinse-aid flows from compartment 2 into compartment 3.



During the rinse cycle, the coil is always switched on twice. When it is switched on the second time, the remaining rinse-aid flows into the rinse tank.



Setting the rinsing agent dosage

1. Open the dispenser by turning the cover cap (A) to the left.
2. In order to increase the dosing amount, turn the dosing arrow to the left by means of a coin or screwdriver. In the works, the setting has been to Position 4 (ideal setting is position 2 – 4).
3. Close the dispenser.

4.6 NTC-Temperature sensor with integrated turbidity sensor

| NTC | Temp. | Resistance |
|-----|-------|------------|
| | 10°C | 9653 Ohm |
| | 25°C | 4843 Ohm |
| | 60°C | 1204 Ohm |
| | 90°C | 445 Ohm |

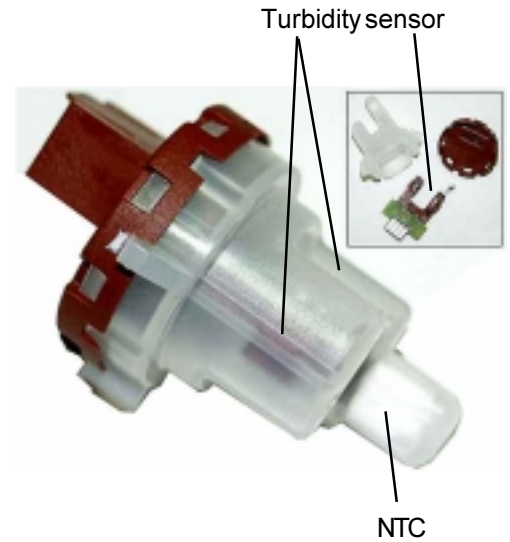
The turbidity sensor function is only activated in cycles "AUTO"

Function:

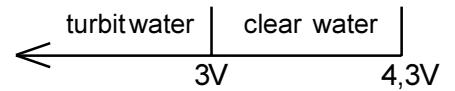
The input voltage with the turbidity sensor may be between 6 V and 11.4 V. (The measurements are described in detail in the chapter "Measuring Points at the Electronic Control (in the base)"). For a clear water the output voltage must always be 4.3 V. If that value differs due to soiling of the turbidity 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.

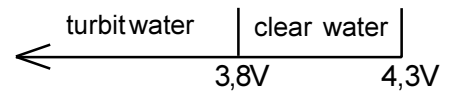
That corresponds to 4.3 V with water.



output voltage prewash



output voltage intermediate



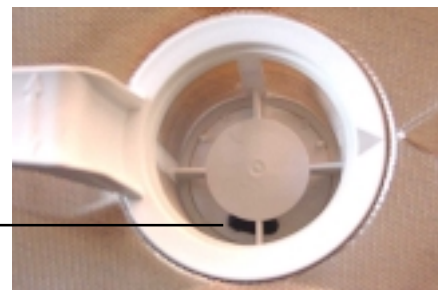
The NTC with trouble sensor is installed in the sump.

4.7 Filter detection (SL)



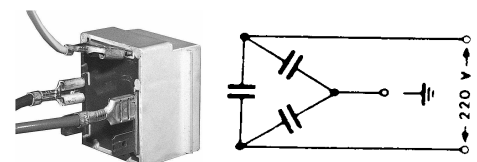
Reed switch

Permanent magnet



4.8 Interference Filter

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



4.9 Drier unit

Washing compartment and regeneration dosage device with condenser form one closed circuit.

Moist air will be led up out of the washing compartment by means of an air guidance between the washing compartment and the regeneration dosage device.

The air will be dried and the condensate discharged into the trough.

Dry air will be led through the washing compartment ventilation into the washing compartment.



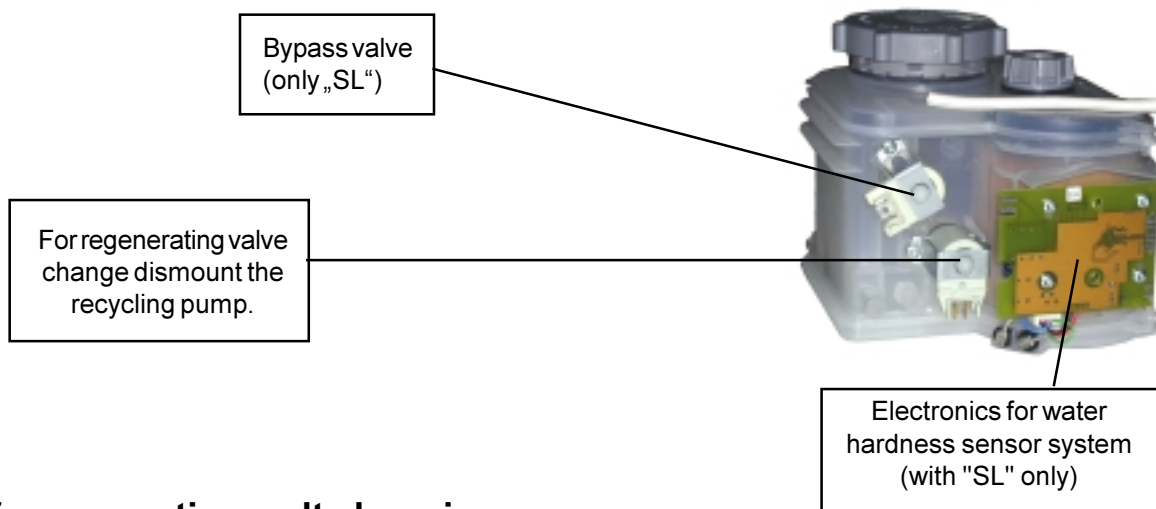
4.10 Water softening/regeneration

The water softening can be adjusted. The incoming water flows 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.



Setting of regeneration salt dosering

There is generally no regeneration when "HARDNESS 1" has been set. Works setting for the hardness range is 4.

Models L, GL, V without sensor

| Water hardness | | | Water hardness settings | Display indication |
|----------------|--------------|------|-------------------------|--------------------|
| °fh | °dh | Area | | |
| 90 - max. 125 | 51 - max. 70 | IV | 10* | 10 L |
| 76 - 89 | 43 - 50 | | 9 | 9 L |
| 65 - 75 | 37 - 42 | | 8 | 8 L |
| 51 - 64 | 29 - 36 | | 7 | 7 L |
| 40 - 50 | 23 - 28 | | 6 | 6 L |
| 33 - 39 | 19 - 22 | III | 5 | 5 L |
| 26 - 32 | 15 - 18 | | 4*** | 4 L |
| 19 - 25 | 11 - 14 | II | 3 | 3 L |
| 07 - 18 | 4 - 10 | I/II | 2 | 2 L |
| < 7 | < 4 | I | 1 no regeneration | 1 L |

* longer duration on this setting

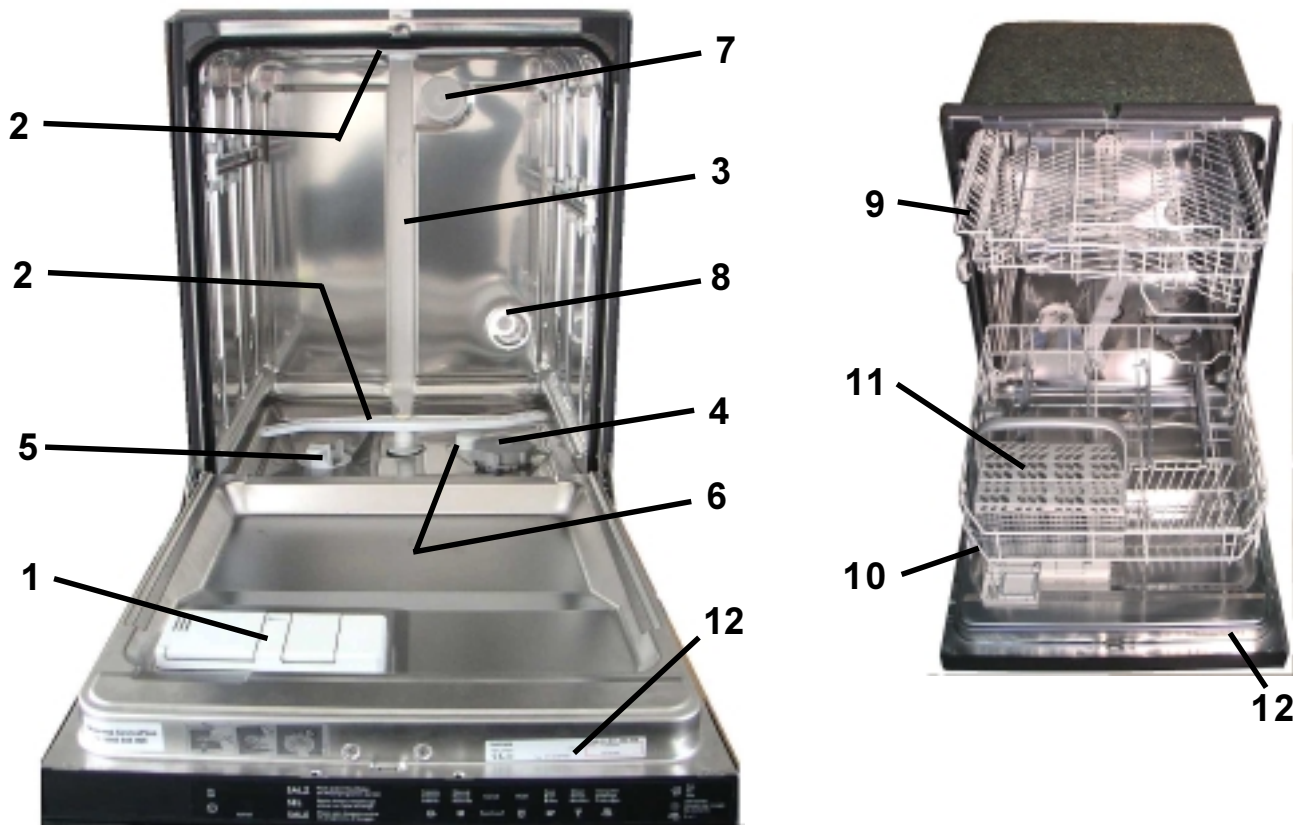
*** value preset by the manufacturer

Model SL with sensor

| Water hardness | | Water hardness settings |
|---|--------------|-------------------------|
| °fh | °dh | Display indication |
| 90 - max. 125 | 51 - max. 70 | 10* |
| 76 - 89 | 43 - 50 | 9 |
| 65 - 75 | 37 - 42 | 8 |
| 51 - 64 | 29 - 36 | 7 |
| 40 - 50 | 23 - 28 | 6 |
| 33 - 39 | 19 - 22 | 5 |
| 26 - 32 | 15 - 18 | 4 |
| 19 - 25 | 11 - 14 | 3 |
| Automatic water hardness sensing | | 2*** |
| < 7 | < 4 | 1 |

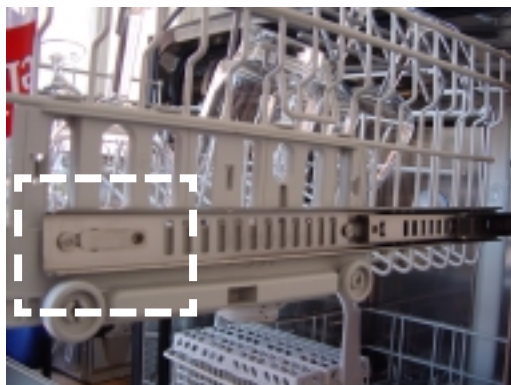
5. Repair informations / Position of Components

5.1 Washing compartment



- Detergent dispenser (1)
- Spray arms (2)
- Water supply for upper spray arm (3)
- Salt container (4)
- Filter (5)
- Water inlet cap (6)

- Ventilation to drying tank (7)
- Blending switch (8)
- Above basket (9)
- Bottom basket (10)
- Cutlery basket (11)
- Type plate (12)



You can easily unclick the upper basket by twisting the locking device (photo in the middle and on the right)

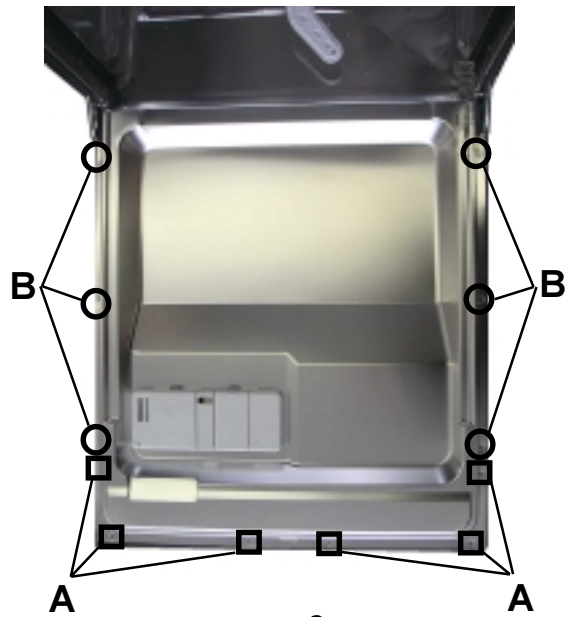


5.2 Door area

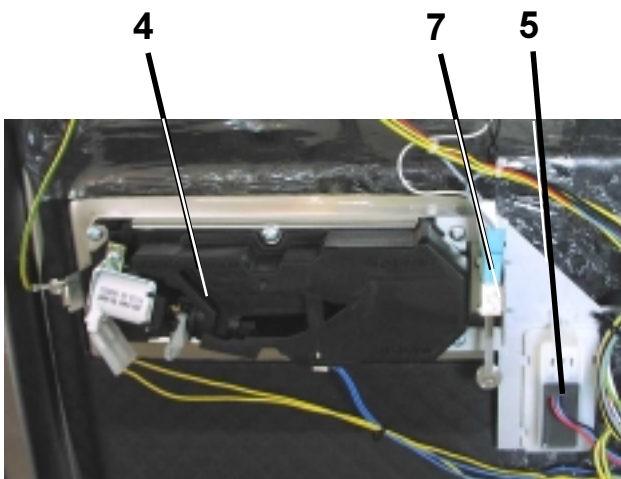
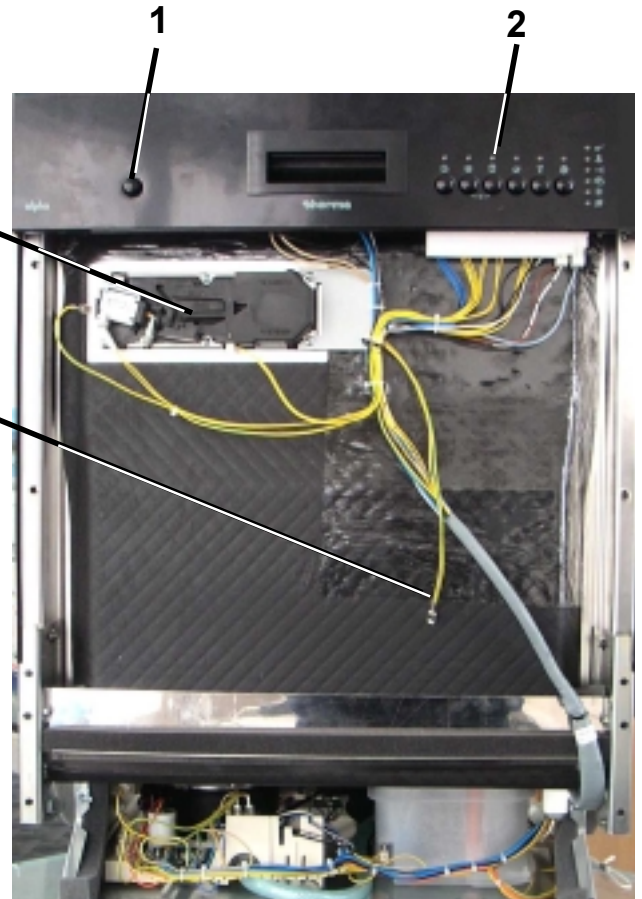
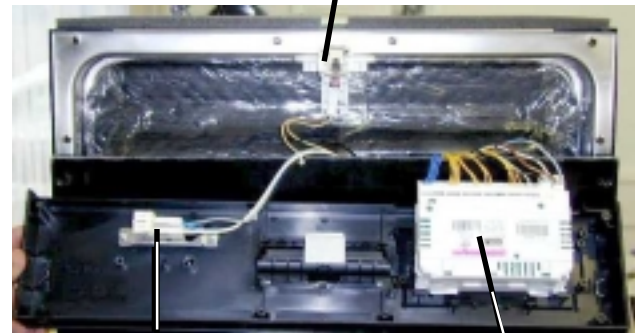
Unscrew the six screws (A). Press the panel upwards by a small amount and take it off.

Now you have easy access to door lock, main switch, and the electronic.

Unscrew the six screws (B). Pull door sheet metal (outer door) upwards out of hinge.



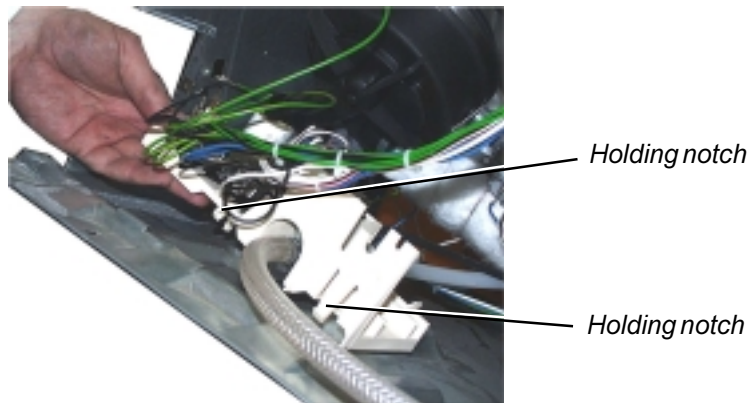
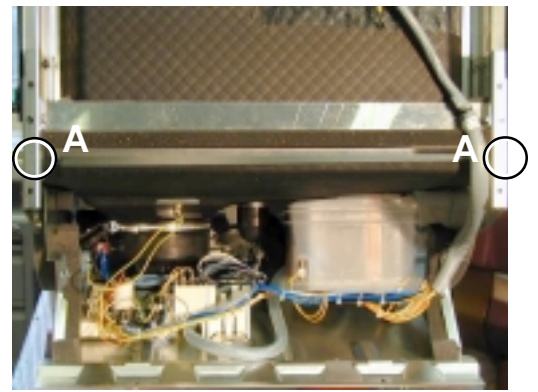
- 1 ON/OFF-switch
- 2 Electronic
- 3 Door lock
- 4 Detergent dispenser
- 5 Spray arm detection (with "SL" only)
- 6 Earth lead.
- 7 optional microswitch for interior lighting



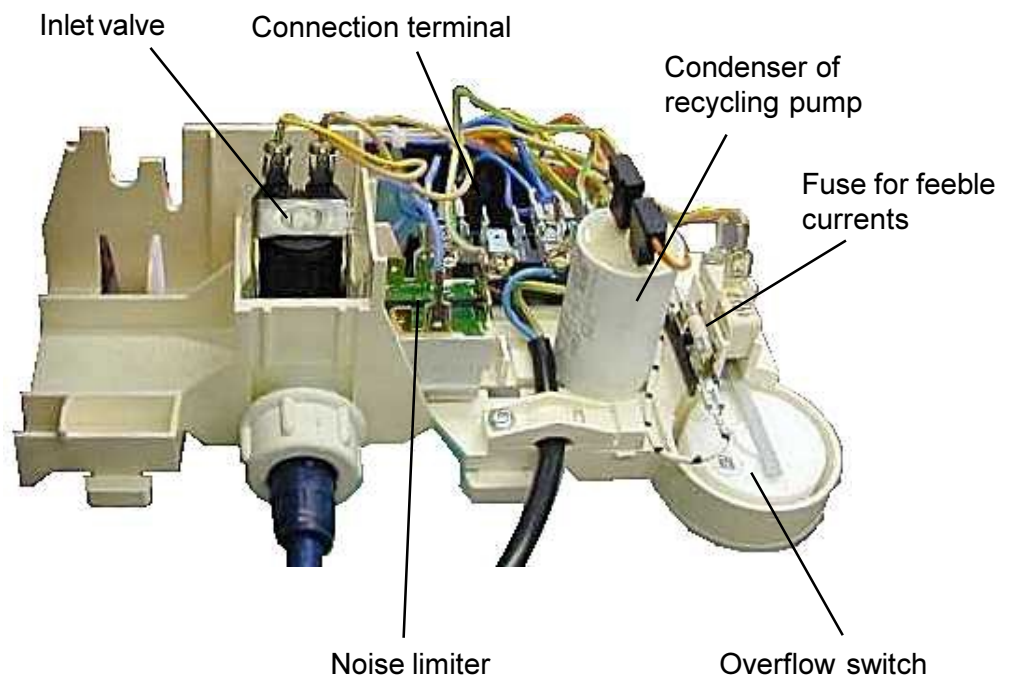
5.3 Service position

To provide access from the front for exchanging the softening equipment, if necessary, put the machine in service position.

- Unhinge door springs
- Unscrew front screws at trough/pump compartment (A).
- Unscrew rear screws at trough/pump compartment.
- Unhinge support for recycling pumps
- Detach cable duct fixtures at pump compartment.
- Fold up the trough in service position.
- You can also unclick and draw out the support unit to the front in other positions than the "service position".



Support unit



5.4 Softener

In Service Position, you can also remove or reinstall NTC/ trouble sensors, pressure monitors, and water softening equipment.

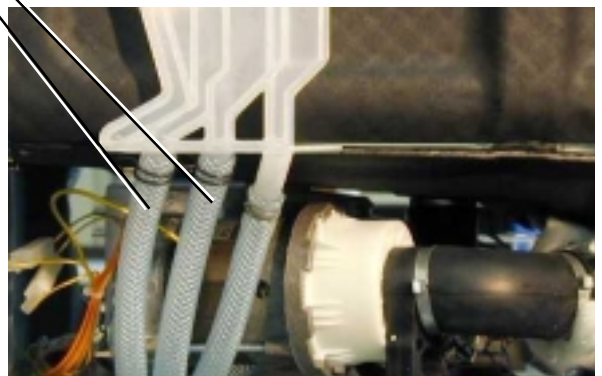
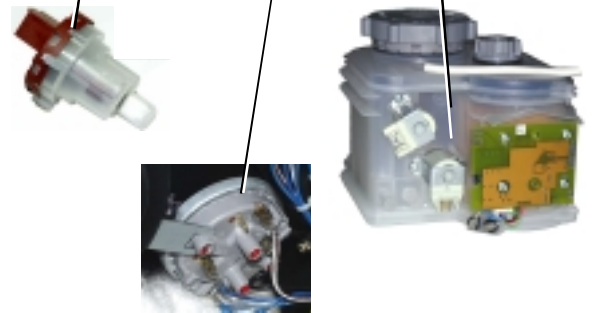
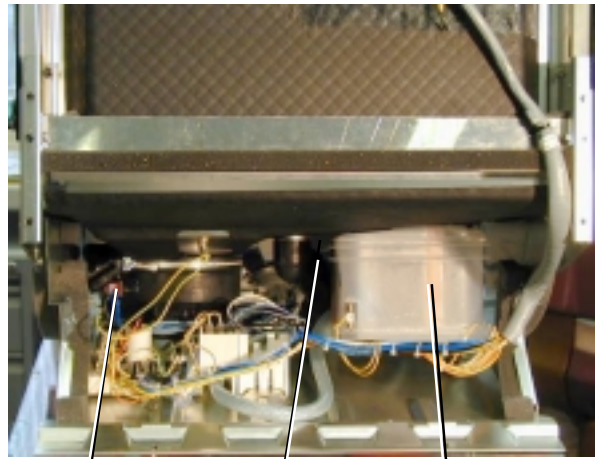
To dismantle the water softening equipment, remove electrical connections.

Also detach the two hoses leading to the regeneration dosage device.

Pull off the water inlet cap from the trough side, and unscrew the nut located below.

Once the salt seal is unscrewed from the salt filling pipe, turn off the large fastening nut.

A useful hint:
You could use a V-belt to loosen this nut, by applying it as described in the figure below.

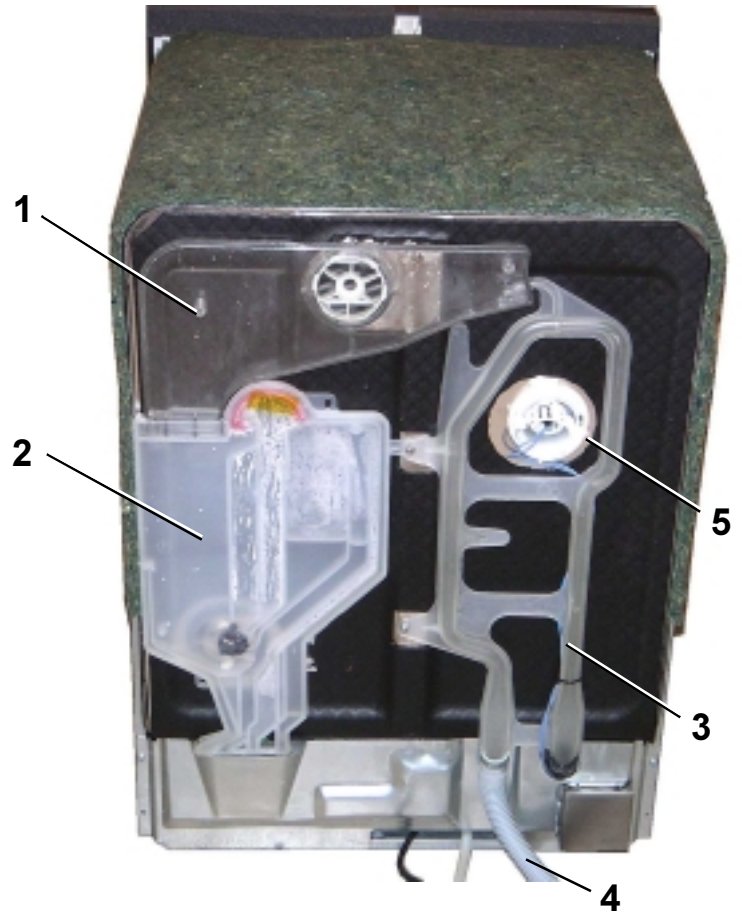


Water inlet, lift off cover, unscrew nut

Salt filler neck

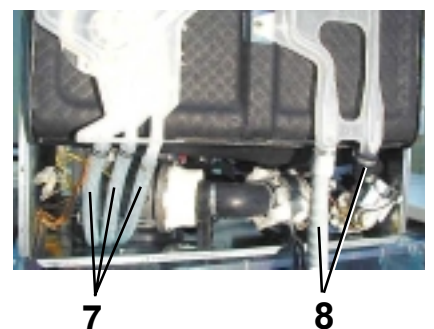
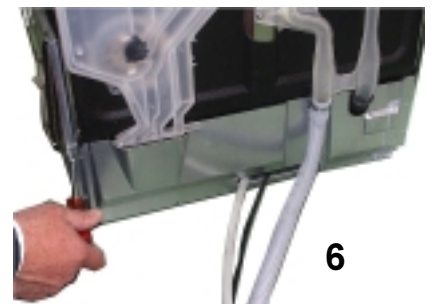
5.5 Back side view

- Drier casing (1)
- Regeneration dosage (2)
- Back suction safety device (3)
- Drain hose (4)
- Interior lighting (SL) (5)



5.6 Dismount the regeneration dosage device with drying unit:

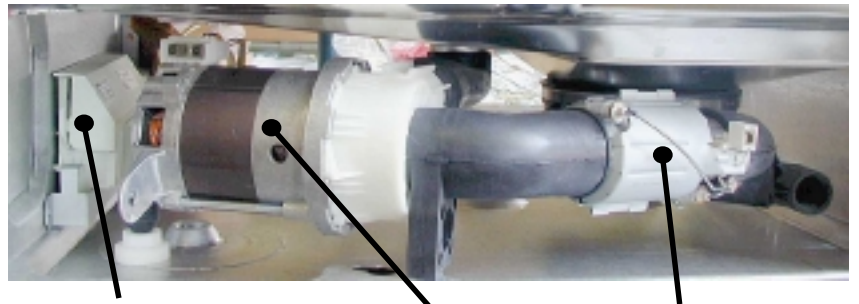
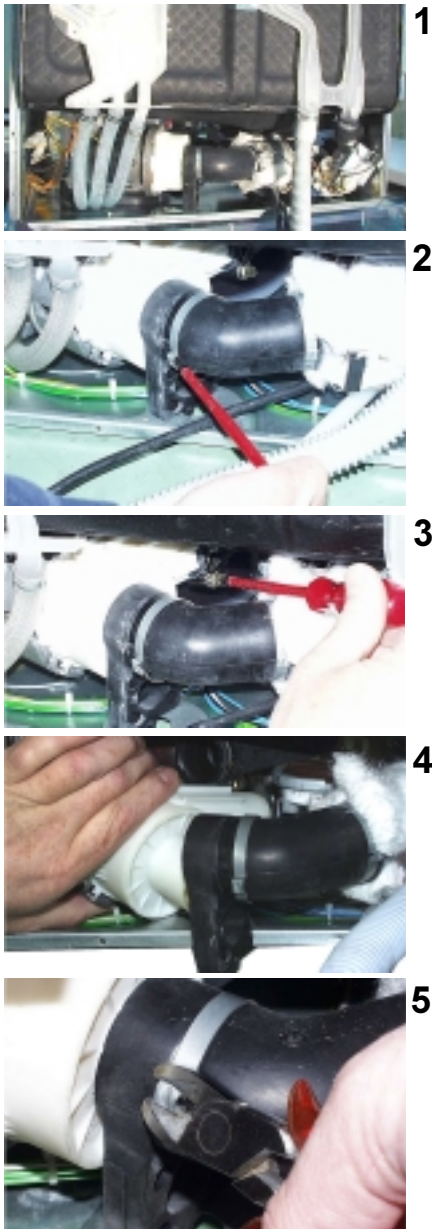
- Turn the bayonet socket on the drying unit steam inlet to the left and unclick. A suitable tool would be a pair of nippers inserted inverted (5).
- Unscrew the cover plate (6).
- Detach the hoses (7).
- Remove the fastening screw and pull off the regeneration dosage device along with the drier unit.
- If you wish to remove the flap trap, you also have to remove the associated hoses (8).



5.7 Drain pump

When you have removed the rear base sheet, you can take off the discharge pump by turning to the left (bayonet socket).

Here you can clearly see the flap trap installed in the suction area apart from the nonreturn valve.



5.8 Power electronic - Circulation pump - Flow heater

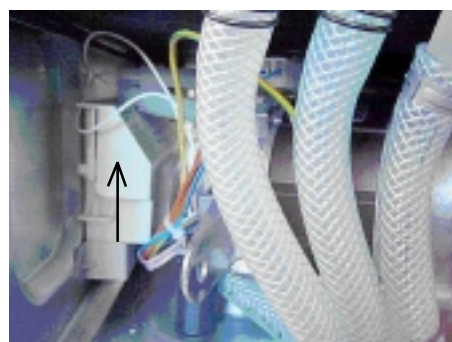
These 3 components can be exchanged from the rear.

- 1 Fitting position of recycling pump and heater
- 2 Fold out the band clamp (2).
- 3 Unscrew the screw connections. Detach hoses (3).
- 4 Unlock pump support from base. Now you can take out the recycling pump (4).

When mounting the recycling pump, note the following :

- You can re-use the strap-type hose clamp if you press it together with a diagonal cutting nipper (5).
- If you cannot re-use this clamp, use a new screwed clamp.
- Carefully install the rubber foot and the hose fixture.

Power electronic
Unclick and draw out to the backside.



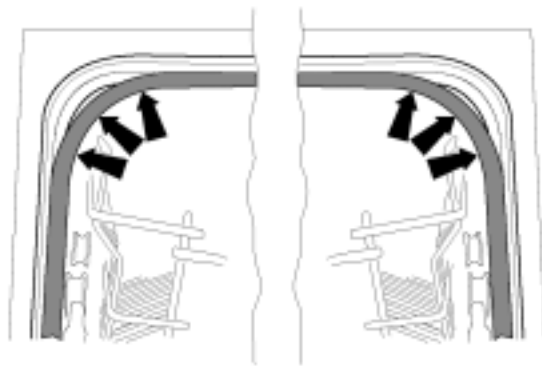
5.9 Installation instructions for door sealing

Carefully insert left-hand and right-hand door seal.

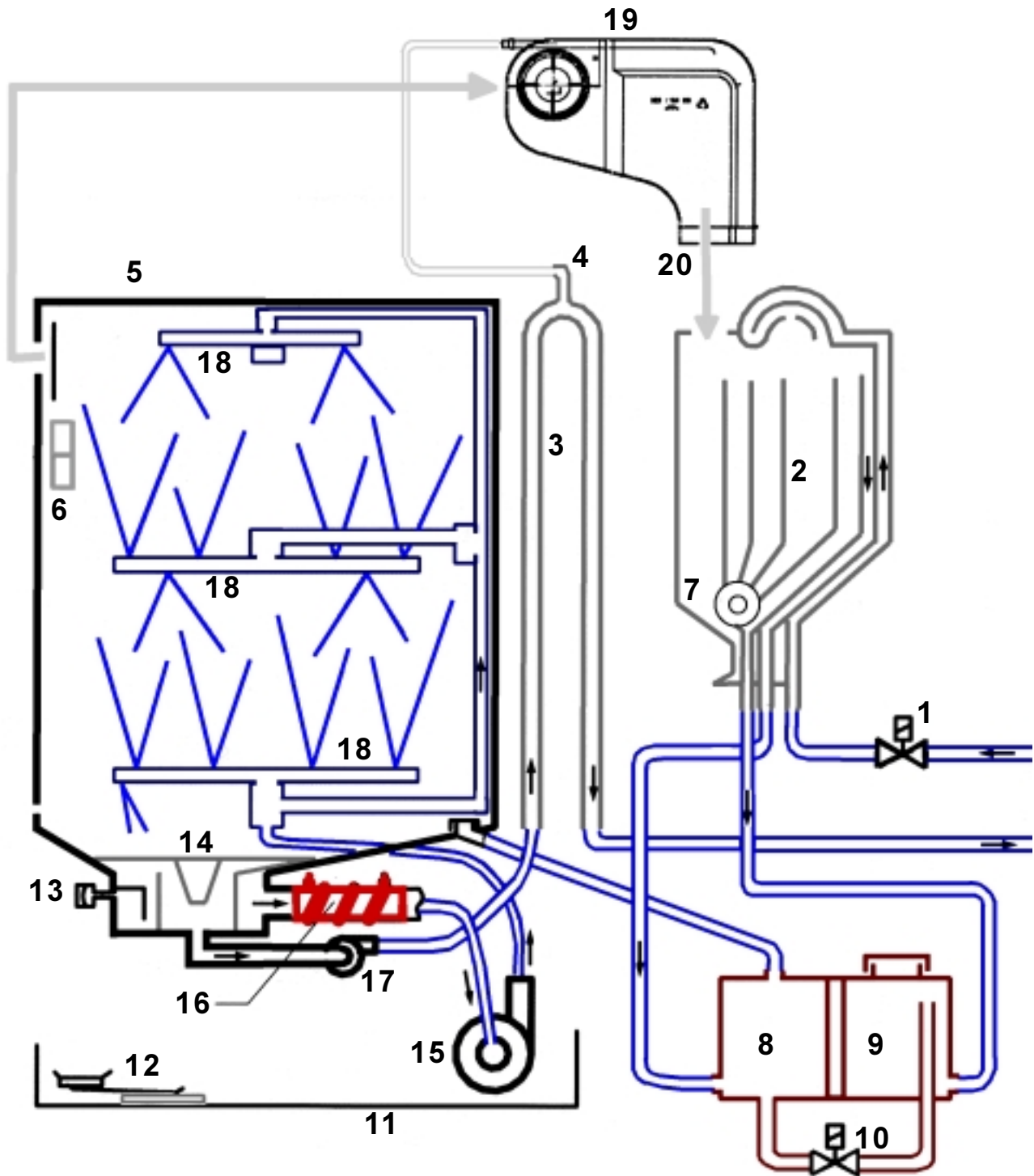
Install door seal as shown in such a way that the seal is slightly stretched in both radii .

Make sure that the sealing lip is not crimped or wavy in the radii and springs well back after pressing it with your finger.

Check for leakages



6. Water course scheme



- | | | | | | |
|---|-----------------------------|----|--------------------|----|----------------------------------|
| 1 | Inlet valve | 8 | Softener | 15 | Circulations pump |
| 2 | Regeneration dosage chamber | 9 | Salt container | 16 | Flow heater |
| 3 | Back suction safety device | 10 | Regeneration valve | 17 | Drain pump |
| 4 | Ventilation | 11 | Base tray | 18 | Spray arms |
| 5 | Washing compartment | 12 | Float switch | 19 | Drier reservoir |
| 6 | Dosing device | 13 | Pressure switch | 20 | Reversing condensation reservoir |
| 7 | Regeneration water dosage | 14 | Filter | | |

7.1. Program structure

DIVA Swiss



| programs Programme | released for production | pre wash Vorspülen | | | | | | | main wash Reinigen | | | | | | | rinses Zwischenspülen (Index 10 is always "Rinse+") | | | | | | | hot rinse Klarspülen | | | | drying Trocknen | | | E | W | comment Bemerkung | | | | | | | | | | | | | | |
|-----------------------|----------------------------|-----------------------|----------|------|---------|--------|--------|--------|-----------------------|-------------|--|-----------|---------------------------|-------|-----------------------|---|-------------|--|---------------|---------------------------|-------|----------------------|--|---------------|---------------------------|-------|--------------------|--|-----------|-----|-----|----------------------|---------------------------|---------------|--------------|---------------------------|--------------------------------------|-------------------------------------|---------------------------------|---------------|--|---|----|--|--|--|
| | | half load | sanitize | 3in1 | rinse + | BioDet | Tablet | EcoDry | Index | temperature | time after temperature Zeit nach Erreichen d. | wash type | total time Gesamt Zeit | Index | temperature | time after temperature Zeit nach Erreichen d. | temperature | time after temperature Zeit nach Erreichen d. | wash type | total time Gesamt Zeit | Index | temperature | time after temperature Zeit nach Erreichen d. | wash type | total time Gesamt Zeit | Index | temperature | time after temperature Zeit nach Erreichen d. | wash type | | | | total time Gesamt Zeit | Index Fan | Index No Fan | total time Gesamt Zeit | total time Gesamtlauzeit [min] | energy Energieverbrauch [kWh] | water Wasserverbrauch [L] | | | | | | | |
| Intensive full speed | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ◆ | ☺ | 0 | (ΔT) 45°C | ΔT + 10 | ctrl | 25 | 0 | (ΔT) 55°C | ΔT + 5 | (ΔT) 68°C | ΔT + 14 | ctrl | 37,0 | 6 | 2x3Min. (< 65°C) | 2x ΔT + 3 | ctrl | 12 | 10 | 5Min. (< 60°C) | --- | ctrl | --- | 1 | (ΔT) 69°C | --- | ctrl | 17 | --- | 4 | 24 | 115 | 1,99 | 24,1 | pots&pans heavy dirt | | | | |
| Gentle full speed | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ◆ | ☺ | 4 | --- | ΔT + 6 | ctrl | 10 | 4 | (ΔT) 50°C | ΔT + 2 | (ΔT) 55°C | ΔT + 12 | ctrl | 36 | 3 | --- | ΔT + 4 | ctrl | 8 | 10 | 5Min. (< 60°C) | --- | ctrl | --- | 1 | (ΔT) 69°C | --- | ctrl | 17 | --- | 4 | 24 | 95 | | normal load, medium soil reduced energy consumption | | | | | |
| Energylabel Axx (SC) | ☺ | --- | --- | ◆ | ☺ | ◆ | ◆ | --- | 5 | --- | ΔT + 10 | pw5 | 11 | 5 | (ΔT) 47°C | 70 - ΔT | --- | --- | ctrl & pw5 | 70 | 10 | 5Min. (< 60°C) | --- | ctrl | --- | 4 | --- | ΔT + 4 | pw5 | 6 | 3 | (ΔT) 63°C | --- | pw5 | 15 | --- | 1 | 60 | 162 | 1,10 | 15,0 | normal load & soil lowest energy consumption | | | | |
| Auto 50-65°C S2 | ☺ | --- | ☺ | ☺ | ☺ | ☺ | ◆ | ☺ | 6 | --- | ΔT + 8 | ctrl | 10 | 8 | (ΔT) 50°C | ΔT + 4 | (ΔT) 68°C | ΔT + 8 | ctrl | 40 | 5 | --- | ΔT + 4 | ctrl / pw1 | 8 | 10 | 5Min. (< 60°C) | --- | ctrl | --- | 2 | (ΔT) 69°C | ΔT + 1 | ctrl / pw1 | 22 | --- | 4 | 24 | 92- 115 | 1,10- 1,53 | 12- 22 | normal load light - normal dirt self-adjusting to load&dirt | | | | |
| Rinse & Hold | ☺ | --- | --- | ◆ | --- | ◆ | ◆ | --- | 7 | --- | ΔT + 5 | ctrl | 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7 | 0,01 | 4,5 | normal load fresh soil avoid drying of dirt | | | | | |
| Quick 30min | ☺ | --- | ☺ | ☺ | ☺ | ☺ | --- | --- | --- | --- | --- | --- | --- | 9 | 14,5Min. (< 65°C) | --- | --- | --- | ctrl | 17 | --- | --- | --- | --- | --- | 10 | 5Min. (< 60°C) | --- | ctrl | --- | 4 | 9Min. (< 69°C) | --- | ctrl | 13 | --- | --- | --- | 30 | 0,90 | 8,0 | 4 settings fresh dirt short time | | | | |
| Glass care | ☺ | --- | --- | ☺ | ☺ | ☺ | ◆ | ☺ | --- | --- | --- | --- | --- | 6 | (ΔT) 45°C | ΔT + 9 | --- | --- | ctrl | 28 | 10 | 5Min. (< 60°C) | --- | ctrl | --- | 9 | 3Min. (< 55°C) | ΔT + 3 | ctrl | 6 | 9 | (ΔT) 55°C | --- | ctrl | 13 | --- | 4 | 24 | 71 | 0,93 | 14,3 | glass & delicate items | | | | |
| 20min | ☺ | --- | --- | ◆ | ☺ | ◆ | ◆ | --- | --- | --- | --- | --- | --- | 12 | 6Min. (< 65°C) | --- | --- | --- | ctrl | 10,0 | 12 | --- | --- | --- | --- | 10 | 5Min. (< 60°C) | --- | ctrl | --- | 12 | 9Min. (< 69°C) | --- | ctrl | 10 | --- | --- | --- | 20 | 0,70 | 8,0 | 4 settings, fresh dirt shortest time, no tablets | | | | |
| Linetest SC +auto | ☺ | --- | --- | --- | --- | --- | --- | --- | 9 | (ΔT) 45°C | --- | ctrl | 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18 | | | | | |
| Linetest SC -auto | ☺ | --- | --- | --- | --- | --- | --- | --- | 10 | (ΔT) 45°C | --- | ctrl | 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 18 | | | |

| | |
|--|---|
| temperature Temperatur | temperature supervised heating / reaching of max. temperature "X" after variable time Temperaturüberwachtes Heizen / Erreichen der max. Temperatur "X" nach einer variablen Zeit |
| temperature Temperatur | time supervised heating with a maximum temperature limit Zeitüberwachtes Heizen mit Temperaturbegrenzung nach oben |
| time after temperature Zeit nach Erreichen der Temperatur | fixed time "Y" after reaching of temperature feste Zeit "Y" nach Erreichen der Temperatur |

- ☺ implemented and released
- ◆ enabled, but no influence in process-software

7.2 Program Runtimes

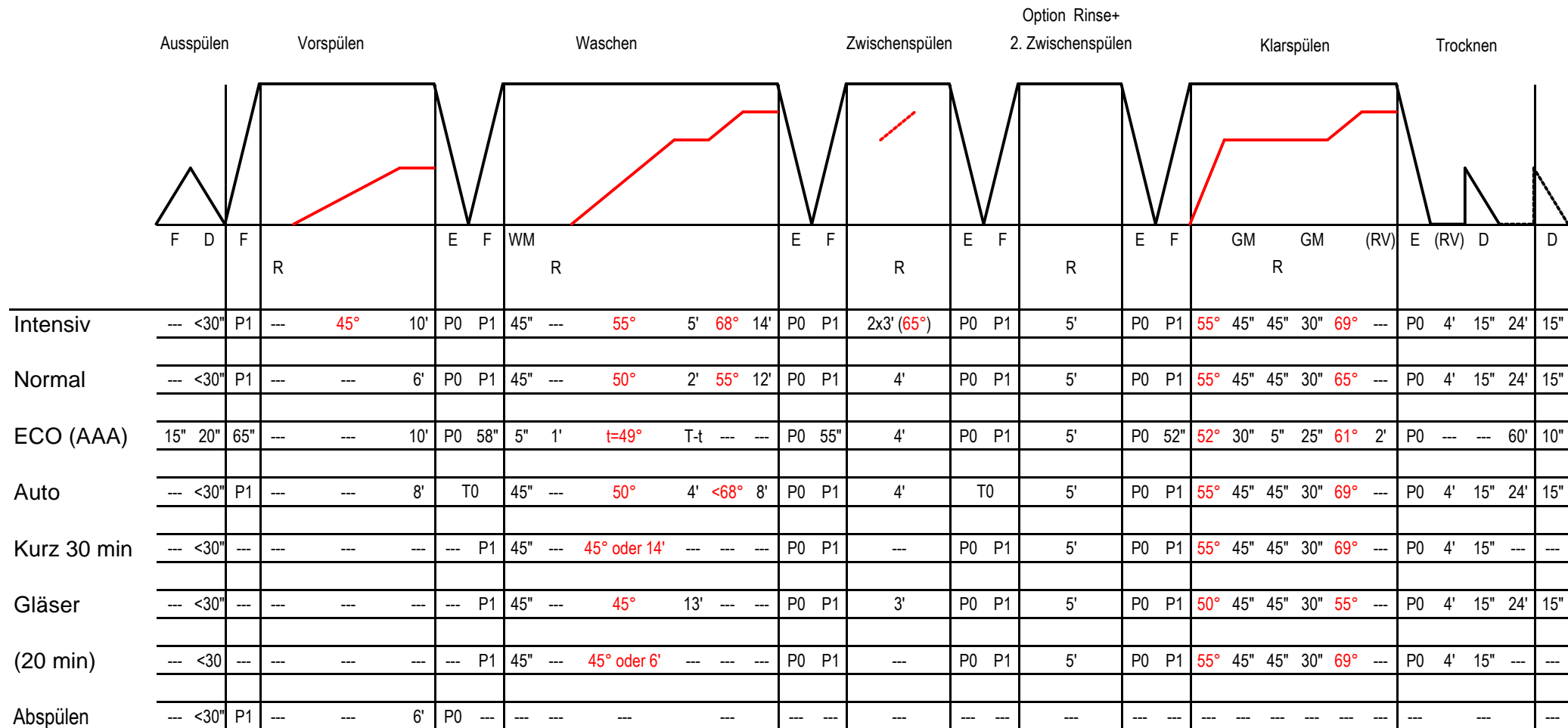
Runtimes released

| | | Runtime [min] | Sanitize | 3in1 | Halfload | Rinse+ | BioDet | Tablet | EcoDry | Temp. Opt. | Temp. Var | Bypass Ventil** |
|--|-------------|---------------|----------|------|----------|--------|--------|--------|--------|------------|-----------|-----------------|
| I2: Intensive full speed Intensiv | Prewash | 25 | 0 | 0 | -25 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Mainwash | 37 | 0 | 0 | -5 | 0 | 5 | 0 | 0 | 0 | 0 | |
| | Coldrinse | 12 | 0 | -4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Added Rinse | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | |
| | Hotrinse | 17 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Dry | 24 | 0 | 30 | 0 | 0 | 0 | 0 | -8 | 0 | 0 | |
| 115 | | | | | | | | | | | | |
| N3: Gentle full speed Normal | Prewash | 10 | 0 | 0 | -10 | 0 | 0 | 0 | 0 | 0 | 0 | X |
| | Mainwash | 36 | 0 | 0 | -6 | 0 | 5 | 0 | 0 | 0 | 0 | |
| | Coldrinse | 8 | 0 | -3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X |
| | Added Rinse | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | |
| | Hotrinse | 17 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Dry | 24 | 0 | 30 | 0 | 0 | 0 | 0 | -8 | 0 | 0 | |
| 95 | | | | | | | | | | | | |
| E1: Energylabel AAA (SC) ECO | Prewash | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X*** |
| | Mainwash | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Added Rinse | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | |
| | Coldrinse | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X*** |
| | Hotrinse | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Dry | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 162 | | | | | | | | | | | | |
| Auto2: Auto 50-65°C S2 Auto | Prewash | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Mainwash | 40 | 0 | 0 | -5 | 0 | 5 | 0 | 0 | 0 | 0 | |
| | Coldrinse | 14 | 0 | -8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X |
| | Added Rinse | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | |
| | Hotrinse | 22 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Dry | 24 | 0 | 30 | 0 | 0 | 0 | 0 | -8 | 0 | 0 | |
| 110 | | | | | | | | | | | | |
| Q4: Rinse & Hold Abspülen | Prewash | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X |
| | Mainwash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Coldrinse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Added Rinse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Hotrinse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7 | | | | | | | | | | | | |
| Q5: Quick 30min Kurz | Prewash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Mainwash | 17 | 0 | 3 | 0 | 0 | 5 | 3 | 0 | 0 | 0 | |
| | Coldrinse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Added Rinse | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | |
| | Hotrinse | 13 | 14 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 30 | | | | | | | | | | | | |
| Q 7: Glass care Gläser | Prewash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Mainwash | 28 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | |
| | Added Rinse | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | |
| | Coldrinse | 6 | 0 | -3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Hotrinse | 13 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Dry | 24 | 0 | 30 | 0 | 0 | 0 | 0 | -8 | 0 | 0 | |
| 71 | | | | | | | | | | | | |
| Q 8: 20 min 20min | Prewash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Mainwash | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Added Rinse | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | |
| | Coldrinse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Hotrinse | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20 | | | | | | | | | | | | |
| LTSC: Linetest SC +auto Linetest +auto | Prewash | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Mainwash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Coldrinse | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Added Rinse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Hotrinse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 18 | | | | | | | | | | | | |
| LTSC: Linetest SC -auto Linetest -auto | Prewash | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Mainwash | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Coldrinse | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Added Rinse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Hotrinse | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Dry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 18 | | | | | | | | | | | | |

** 1sec vor Einlassventil EIN und mit Einlassventil AUS

*** nur aktiv bei Vers (nur aktiv bei Version vor 28.09.2004)

7.3 Program steps EDW 1100 / 1500 / 1503 / 2500 für DIVA Swiss



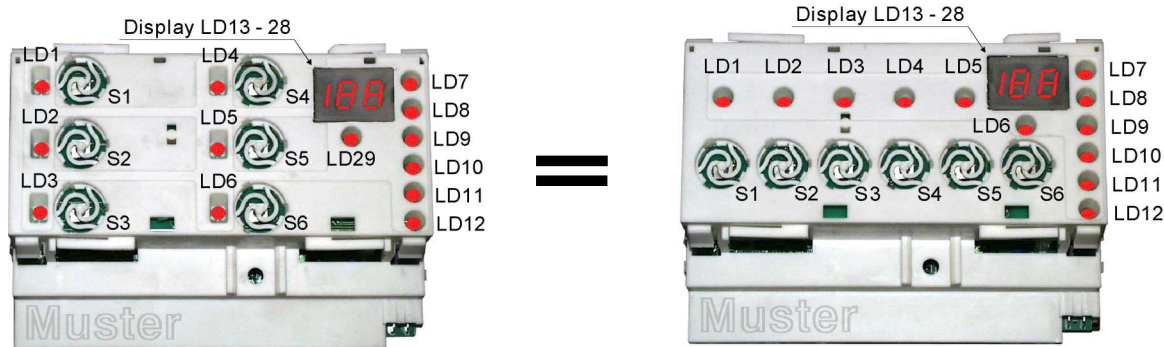
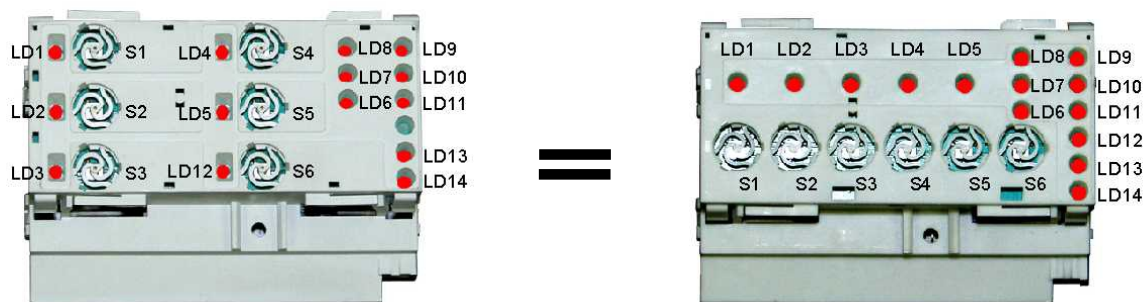
F Feste Füllzeit
 P1 Füllen bis Niveau + mind 10"
 R Nachfüllen möglich (max 9 x 5")
 t=47° Zeit, bis 47° erreicht werden
 T max Waschzeit von 70'
 xx° teilweise max Werte Zeitbegrenzt

WM Waschmittel
 GM Glanzmittel
 RV Regenerierventil (je nach Wasserhärteeinstellung)
 T0 Abpumpen und füllen, nur wenn Wasser Schmutzschwellwert überschreitet
 P0 Abpumpen, bis NIV1 zurückschaltet + mind 10"
 D Abschliessendes Abpumpen

8. Service settings - electronic modules

Inputs and outputs: keys, LEDs and lamps

Arrangement



Special manuals with more details you'll find in following documentations about
EDW 1100, EDW 1500, EDW 1503 and EDW 2500

EDW 1100

Publ. 599 517 065

EDW 1500

Publ. 599 514 942

EDW 1503

Publ. 599 514 944

EDW 2500

Publ. 599 518 934

8.1.1 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 the keys S0, S1, S2 and S3 independent of their variant-dependent program load.
- In the service function mode, key S1 is ALWAYS responsible for the function „readout of fault memory“ and „single actuator selection“.

It is generally valid:

For calling all service functions you always have first to actuate function keys S1 and S3 before switching on the appliance by ON/OFF switch S0!

The keys have to remain pressed about 4 seconds to activate the function.

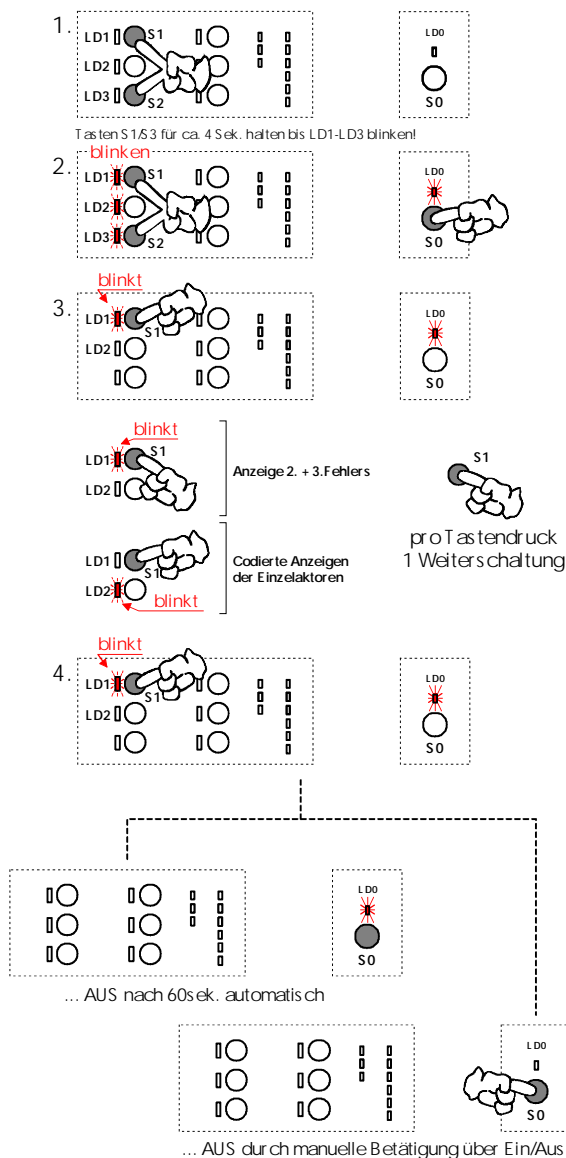
This procedure is intentionally different to that for the customer functions.

Calling the functions „readout of fault memory“ and „single actuator selection“

1. Press keys S1 and S3 simultaneously and...
 2. ... and switch on the appliance by ON/OFF switch S0. For that keep keys S1 and S3 pressed until the 3 confirmation LEDs LD1, LD2 and LD3 are flashing. (A temporary flashing up of LEDs is possible and is no fault!)
 - 3./4. By actuating the function key S1 you can call the function. The confirmation LED LD1 continues flashing, LEDs LD2 and LD3 go out.
- When you press S1 button for the first time, the first error is displayed in coded form by means of the END LED. When S1 button is pressed the second and third time, you can read the second and third value of the error memory. (see description "Overview of errors displayed") As from the fourth time you press the S1 button, LED LD1 will go dark and LD2 starts flashing. You can call the individual actuators one after the other now.

4. Actuation: selection of regeneration valve
 5. Actuation: selection of drain pump
 6. Actuation: selection of valve
(filling to level - if 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
- All positions can be called scrolling as many times as one wants.

The several steps are switched onward manually by pressing any key. If the function key S1 is not pressed within 60 seconds, the service function is left automatically. Alle LED's der Programm- und Optionstasten leuchten. Das Gerät befindet sich wieder im „Vorstart“-Modus. It is also possible to leave the function by switching off the appliance by ON/OFF key S0.



8.1.2 Service Function / LED test with integrated deletion of the fault memory

General Information

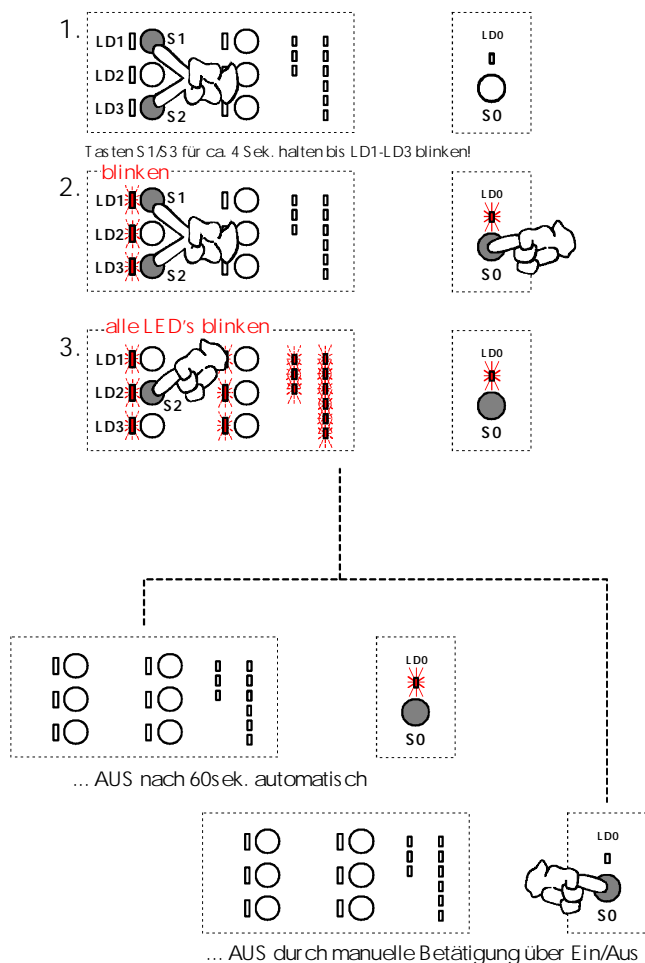
- * Calling the service functions is executed in all designs resp. key arrangements analogously.
- * For that you always have to use the keys S0, S1, S2 and S3 independent of their variant-depending program load.
- * In the service function mode, the key S2 is ALWAYS responsible for the function „LED test with integrated deletion of the fault memory“.

Generally is valid:

For calling all service functions you always have first to actuate the function keys S1 and S3 before switching on the appliance by ON/OFF switch S0!

The keys have to remain pressed about 4 seconds to activate the function.

This procedure is intentionally different to that for the customer functions.



„Calling the functions „LED test with integrated deletion of the fault memory“

1. Press keys S1 and S3 simultaneously and...

2. ... and switch on the appliance by ON/OFF switch S0. For that keep the keys S1 and S3 pressed simultaneously until the 3 confirmation LEDs LD1, LD2 and LD3 are flashing.

(A temporary flashing up of LEDs is possible and is no fault!)

3. By actuating the function key S2 you now can call the function.

All LEDs (except LD0) are flashing for about 30 seconds.

Leaving the function / deletion of the fault memory

All above-mentioned LEDs resp. the display have been flashing for about 30 seconds, the function is left automatically. Now the appliance is in the „prestart“ mode again. It is also possible to leave the function earlier by switching off the appliance by ON/OFF key S0.

In any case the service fault memory is deleted.

8.1.3 Service function / manufacturing test routine:

General information

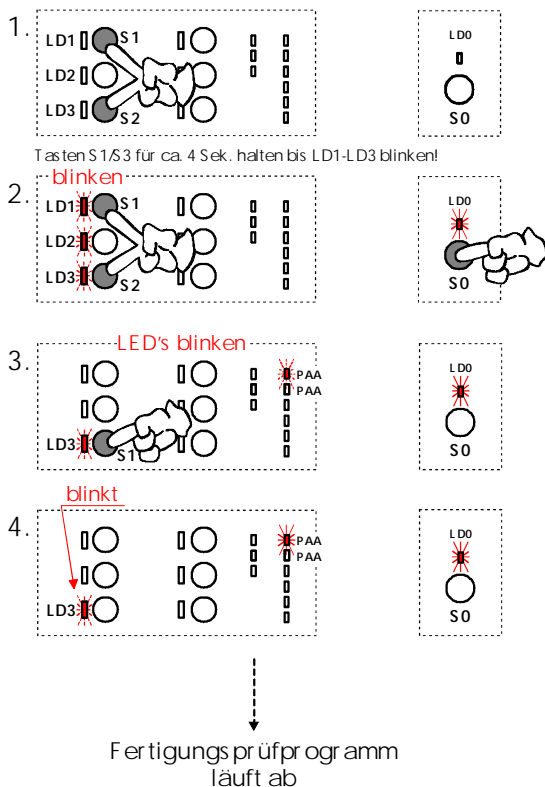
- Calling the service functions is executed in all designs resp. key arrangements analogously.
- For that you always have to use the keys S0, S1, S2 and S3 independent of their variant-dependent program load.
- In the service function mode the key S3 is ALWAYS responsible for calling the „manufacturing test routine“.

It is generally valid:

For calling all service functions you always have first to actuate the function keys S1 and S3 before switching on the appliance by ON/OFF switch S0!

The keys have to remain pressed about 4 seconds to activate the function.

This procedure is intentionally different to that for the customer functions.



Calling the function „manufacturing test routine“

1. Press keys S1 and S3 simultaneously and ...
2. ... and switch on the appliance by ON/OFF switch S0. For that keep the keys S1 and S3 pressed simultaneously until the 3 confirmation LEDs LD1, LD3 and LD3 are flashing.
(A temporary flashing up of LEDs is possible and is no fault!)
3. By actuating the function key S3 you can call the manufacturing test routine. The key LED LD3 continues flashing, the LEDs LD1 and LD2 go out. The corresponding PAA LED will flash until the program starts automatically.
4. The test routine starts automatically. The key-LED LD3 continues to flash, the corresponding PAA-LED is lit.

From that moment the same input philosophy is valid for the manufacturing test routine as for normal washing cycles

- 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)

8.1.4 Service function/ Disconnection Pulse Wash

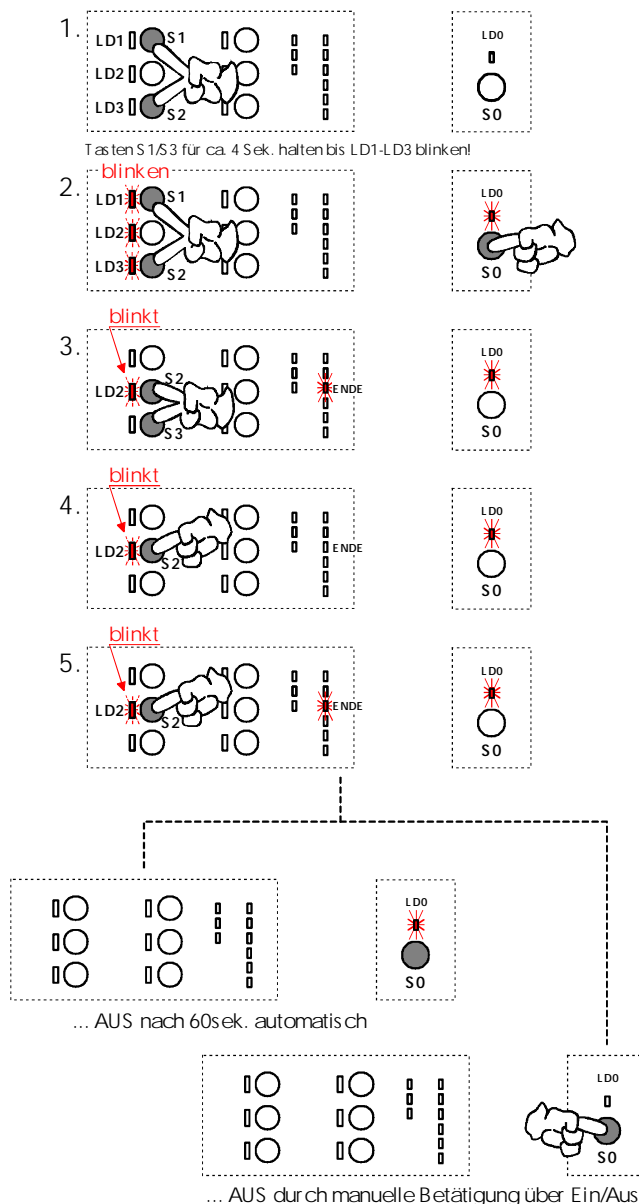
General information

- Calling the Service Functions is similar with all designs or key arrangements.
- Always use the keys S1, S2, S3 and S4 independently from their program assignment depending on the model.
- In service function mode, you can ALWAYS call the Pulse Wash function by using keys S2 and S3. Use key S2 to modify 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.

Always applicable:

In order to call the totality of service functions always first press the function keys S1 and S3 prior to switching the appliance on by means of ON/OFF switch S0!

Keep the keys pressed for about 4 seconds in order to activate the function. This procedure is intentionally distinguished from those for the customer functions.



Calling the function „Switch OFF Pulse Wash“

1. Simultaneously press S2 and S3 and...

2. ...switch on the appliance with ON/OFF switch S1. Keep keys S1 and S3 pressed simultaneously until the 3 acknowledging LEDs LD1, LD2 und LD3 are flashing. (Short-time illumination of LEDs is possible and does not constitute any fault)

3. Simultaneously press S2 and S3 until the acknowledging LED LD2 is flashing. LEDs LD1 and LD3 will go dark. The „End“-LED indicates whether Pulse Wash is activated or deactivated.

„End“-LED on = Pulse Wash on

„End“-LED off = Pulse Wash off.

Switching the Pulse Wash function on or off:

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

Abandoning the function

After the last activation of function key S2 you can leave the special program as follows: After 60 seconds automatically all indications will go dark, except for the LD0 of the ON/OFF key

or

you switch the appliance off by means of ON/OFF key S0.

Saving the status settings

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

8.1.5. Service Function / Additional Rinsing Process

General information

- Calling the service functions is similar with all designs or key arrangements.
- Always use the keys S0, S1, S2 and S3 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 S1 and S2.
 - Use key S1 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.

Always applicable:

In order to call the totality of service functions always first press the function keys S1 and S3 prior to switching the appliance on by means of ON/OFF switch S0!

Keep the keys pressed for about 4 seconds in order to activate the function. This procedure is intentionally distinguished from those for the customer functions.

Calling the function „Additional Wash Cycle“

1. Simultaneously press S1 and S3 and...
2. ... switch on the appliance with ON/OFF switch S0. Keep keys S1 and S3 pressed simultaneously until 3 acknowledging LEDs LD1, LD2 and LD3 are flashing (Short-time illumination of LEDs is possible and does not constitute any fault)

3. Simultaneously press S1 and S2 until the acknowledging LED LD1 is flashing. LEDs LD2 and LD3 will go dark. The „End“-LED indicates whether the Additional Rinsing Process is activated or deactivated.

„Ende“-LED an = zusätzl. Spülgang angewählt
 „Ende“-LED aus = kein zusätzl. Spülgang

Switching this function on or off:

- 4./5. Any further activation of function key S1 will switch the addition alternately on or off.

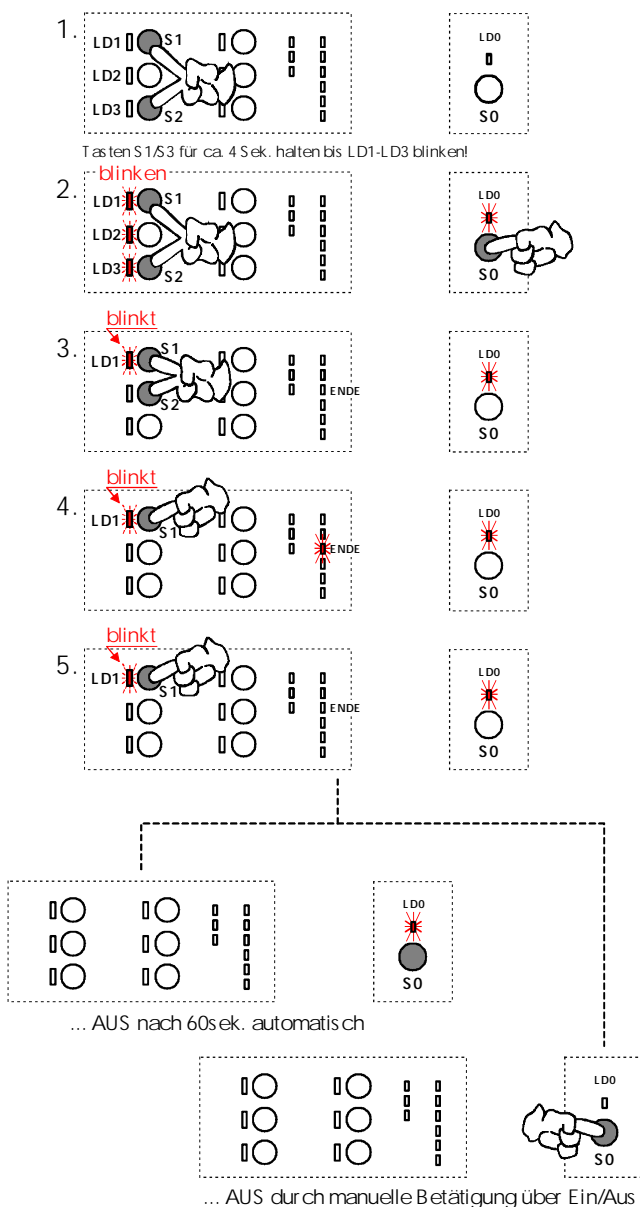
Abandoning the function:

After the last activation of function key S1 you can leave the special program as follows:

After 60 seconds automatically all indications will go dark, except for the LD0 of the ON/OFF key or you switch the appliance off by means of ON/OFF key S0.

Saving the status settings

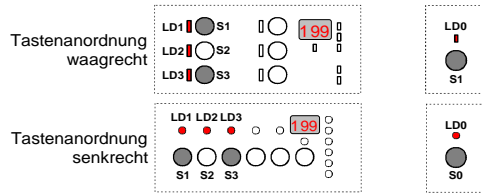
Immediately after each input of data, the currently valid status will be saved.



8.2.1 EDW 1500 Service function / readout of fault mem. and single actuator selection:

General information

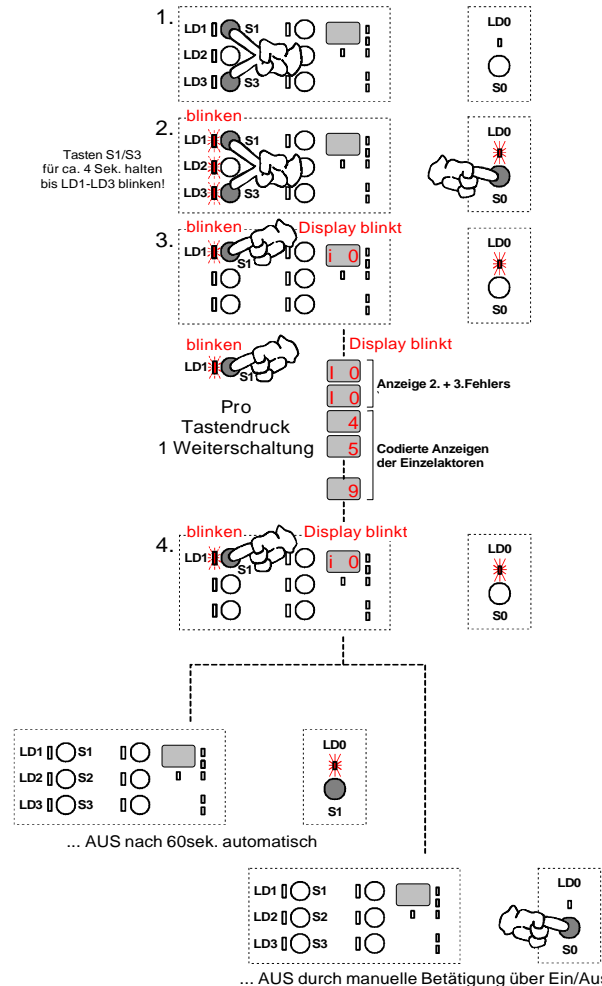
- Calling the service functions is executed in all designs resp. key arrangements analogously.
- For that you always have to use keys S0, S1, S2 and S3 independent of their variant-depending program load.
- In the service function mode, key S1 is ALWAYS responsible for the function "readout of fault memory" and "single actuator selection".



! It is generally valid:

For calling all service functions you always have first to actuate function keys S1 and S3 before switching on the appliance by ON/OFF switch S0!
 The keys have to remain pressed about 4 seconds to activate the function.
 This procedure is intentionally different to that for the customer functions.

Calling above-mentioned service function



Calling the functions

"readout of fault memory" and "single actuator selection"

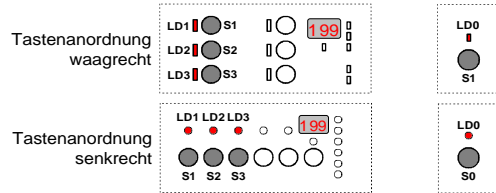
1. Press keys S1 and S3 simultaneously and ...
2. ... and switch on the appliance by ON/OFF switch S0. For that keep keys S1 and S3 pressed until the 3 confirmation LEDs LD1, LD2 and LD3 are flashing.
 (A temporary flashing up of LEDs is possible and is no fault!)
3. / 4. By actuating the function key S1 you now can call the function. The confirmation LED LD1 continues flashing, LEDs LD2 and LD3 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 S1 it is possible to call the next step and indicate it in the display.
 2. actuation: Display of second value of the fault memory.
 3. actuation: Display of third value of the fault memory.
 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 (see description page B 19 / "Survey of fault displays")
 All positions can be called scrolling as many times as one wants.

The several steps are switched onward manually by pressing any key. If the function key S1 is not pressed within 60 seconds, the service function is left automatically. All displays go out except LD0 of the ON/OFF key. It is also possible to leave the function by switching off the appliance by ON/OFF key S0.

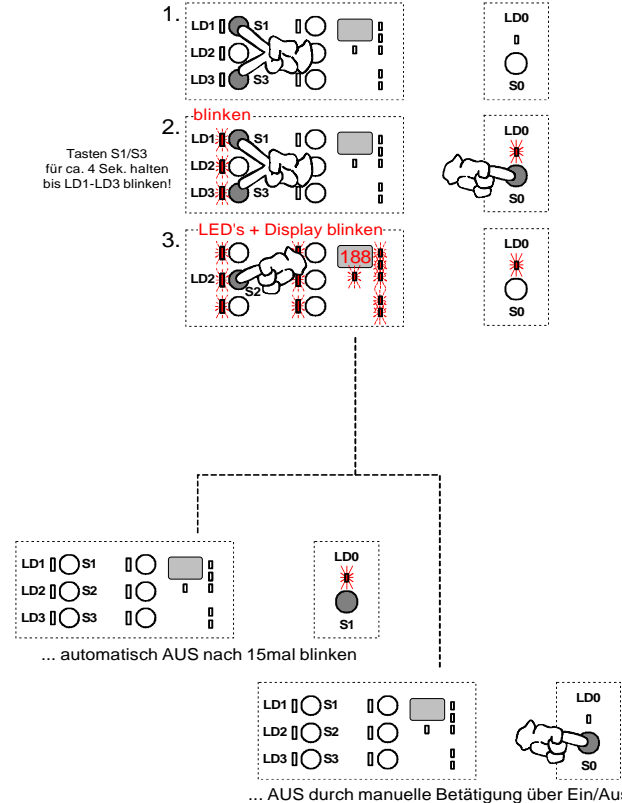
8.2.2 EDW 1500 Service function/LED test with integr. deletion of the fault memory:

General information

- Calling the service functions is executed in all designs resp. key arrangements analogously.
- For that you always have to use keys S0, S1, S2 and S3 independent of their variant-dependent program load.
- In the service function mode, the key S2 is ALWAYS responsible for the function "LED test with integrated deletion of the fault memory".



Calling above-mentioned service function



Calling the functions

"LED test with integrated deletion of the fault memory"

1. Press keys S1 and S3 simultaneously and ...
2. ... and switch on the appliance by ON/OFF switch S0. For that keep the keys S1 and S3 pressed simultaneously until the 3 confirmation LEDs LD1, LD2 and LD3 are flashing.
3. By actuating the function key S2 you now can call the function. All LEDs (except LD0) and "188" in the display are flashing about 30 seconds.

Leaving the function / deletion of the fault memory

All above-mentioned LEDs resp. the display have been flashing for about 30 seconds, the function is left automatically. Now the appliance is in the "prestart" mode again. It is also possible to leave the function earlier by switching off the appliance by ON/OFF key S0.

In any case, the service fault memory is deleted.

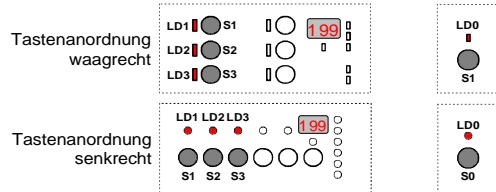
It is generally valid:

For calling all service functions you always have first to actuate the function keys S1 and S3 before switching on the appliance by ON/OFF switch S0! The keys have to remain pressed about 4 seconds to activate the function. This procedure is intentionally different to that for the customer functions.

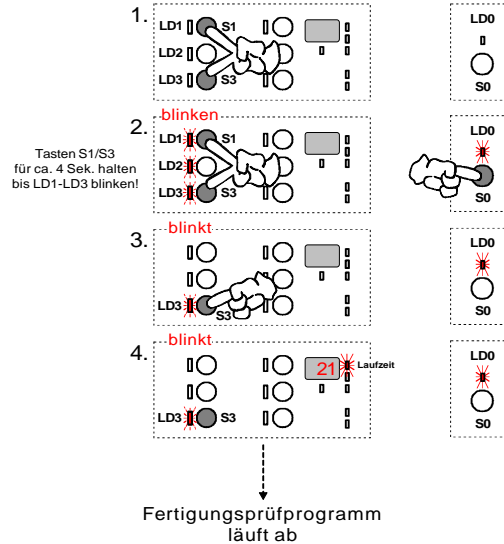
8.2.3 EDW 1500 Service function / manufacturing test routine:

General information

- Calling the service functions is executed in all designs resp. key arrangements analogously.
- For that you always have to use keys S0, S1, S2 and S3 independent of their variant-dependent program load.
- In the service function mode the key S3 is ALWAYS responsible for calling the "manufacturing test routine".



Calling above-mentioned service function



Calling the function "manufacturing test routine"

1. Press keys S1 and S3 simultaneously and ...
2. ... and switch on the appliance by ON/OFF switch S0. For that keep the keys S1 and S3 pressed simultaneously until the 3 confirmation LEDs LD1, LD2 and LD3 are flashing.
3. By actuating the function key S3 you can call the manufacturing test routine. The key LED LD3 continues flashing, the LEDs LD1 and LD2 go out.
4. The test routine starts automatically. The run time LED flashes up. The display indicates the expected run time.

From that moment the same input philosophy is valid for the manufacturing test routine as for normal washing cycles.

- ☞ *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)

It is generally valid:

For calling all service functions you always have first to actuate the function keys S1 and S3 before switching on the appliance by ON/OFF switch S0!

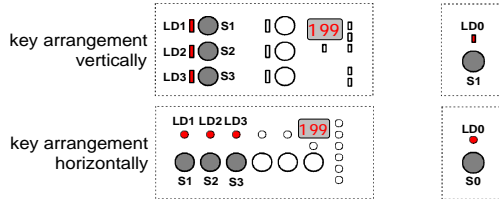
The keys have to remain pressed about 4 seconds to activate the function.

This procedure is intentionally different to that for the customer functions.

8.2.4. EDW 1500 Service function / disconnection pulse wash

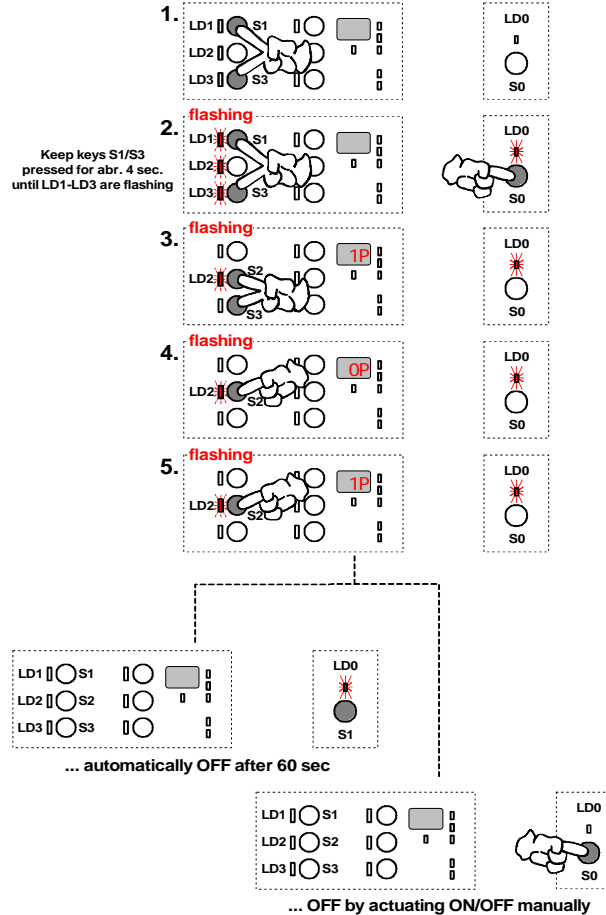
General information

- Calling the Service Functions is similar with all designs or key arrangements.
- Always use the keys S0, S1, S2 and S3 independently from their program assignment depending on the model.
- In service function mode, you can ALWAYS call the Pulse Wash function by using keys S2 and S3. Use key S2 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 cir. pump are alw.increased to "High Pulse Speed".** Water consumption slightly increases. Extension of time is possible depending on the temperature.

Calling above-mentioned service function



Calling the function "Switch OFF Pulse Wash"

1. Simultaneously press S1 and S3 and ...
2. ... switch on the appliance with ON/OFF switch S0. Keep keys S1 and S3 pressed simultaneously until the 3 acknowledging LEDs LD1, LD2 and LD3 are flashing. (Short-time illumination of LEDs is possible and does not constitute any fault)
3. Simultaneously press S2 and S3 until the acknowledging LED LD2 is flashing. LEDs LD1 and LD3 will go dark. The current status whether Pulse Wash is active or not is signaled in the display.
1P = Pulse Wash is active
0P = Pulse Wash is switched off

Switching the Pulse Wash Function on or off:

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

Leaving the function

After the last activation of function key S2 you can leave the special program as follows:
After 60 seconds all displays go out automatically, except LD0 of the ON/OFF key
or
the appliance is switched off by ON/OFF key S0.

Saving the status settings

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

Always applicable:

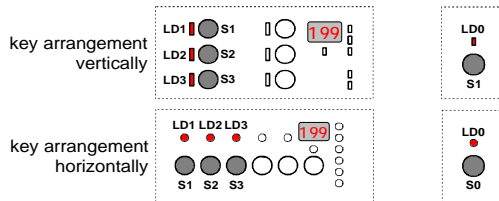
In order to call the totality of service functions, always first press the function keys S1 and S3 prior to switching the appliance on by means of ON/OFF switch S0! Keep the keys pressed for abt. 4 seconds in order to activate the function. This procedure is intentionally distinguished from those for the customer functions.

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

8.2.5. EDW 1500 Service function / additional rinsing process

General information

- Calling the Service Functions is similar with all designs or key arrangements.
- Always use the keys S0, S1, S2 and S3 independently from their program assignment depending on the model.
- In service function mode, you can ALWAYS call the "additional wash cycle" by using keys S1 and S2. Use key S1 to modify the setting.
- From works settings, no additional wash cycle is set.



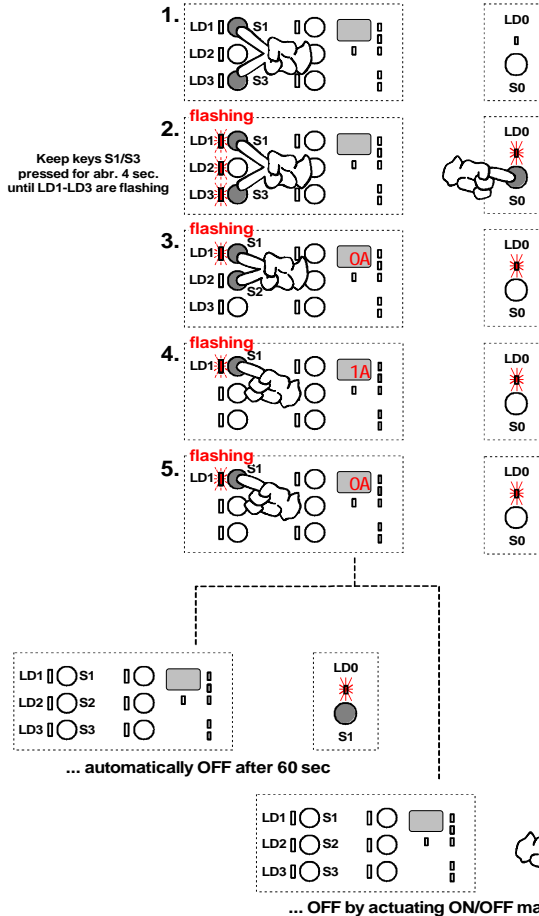
- **If this function is activated, an additional wash cycle will ALWAYS be added, except for "prewash extra".** This will extend program run times up to about 10 minutes. This additional wash cycle will be executed until the function is deactivated again.

Always applicable:

In order to call the totality of service functions, always first press the function keys S1 and S3 prior to switching the appliance on by means of ON/OFF switch S0! 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 S1 and S3 and ...
2. ... switch on the appliance with ON/OFF switch S0. Keep keys S1 and S3 pressed simultaneously until the 3 acknowledging LEDs LD1, LD2 and LD3 are flashing.
(Short-time illumination of LEDs is possible and does not constitute any fault)
3. Simultaneously press S1 and S2 until the acknowledging LED LD1 is flashing. LEDs LD2 and LD3 will go dark. The current status whether the Add. Wash Cycle is active or not is signaled in the display. If there is no display on the model, the value is indicated by LED "End."
1A = Add. Wash Cycle is selected
0A = No Add. Wash Cycle

Switching this function on or off:

4. / 5. Any further activation of function key S1 will switch the addition alternately on or off.

Leaving the function

After the last activation of function key S1 you can leave the special program as follows:

After 60 seconds all displays go out automatically, except LD0 of the ON/OFF key

or

the appliance is switched off by ON/OFF key S0.

Saving the status settings

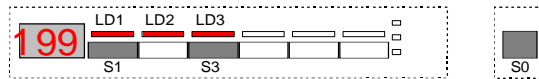
Immediately after each input of data, the currently valid status will be saved.

8.3.1. EDW 1503 Service funct./readout of fault memory and single actuator select.:

General information

- Calling the service function is executed in all designs resp. key arrangements analogously.
- For that you always have to use keys S0, S1, S2 and S3 independent of their variant-depending program load.
- In the service function mode key S1 is ALWAYS responsible for the function "readout of fault memory" and "single actuator selection"

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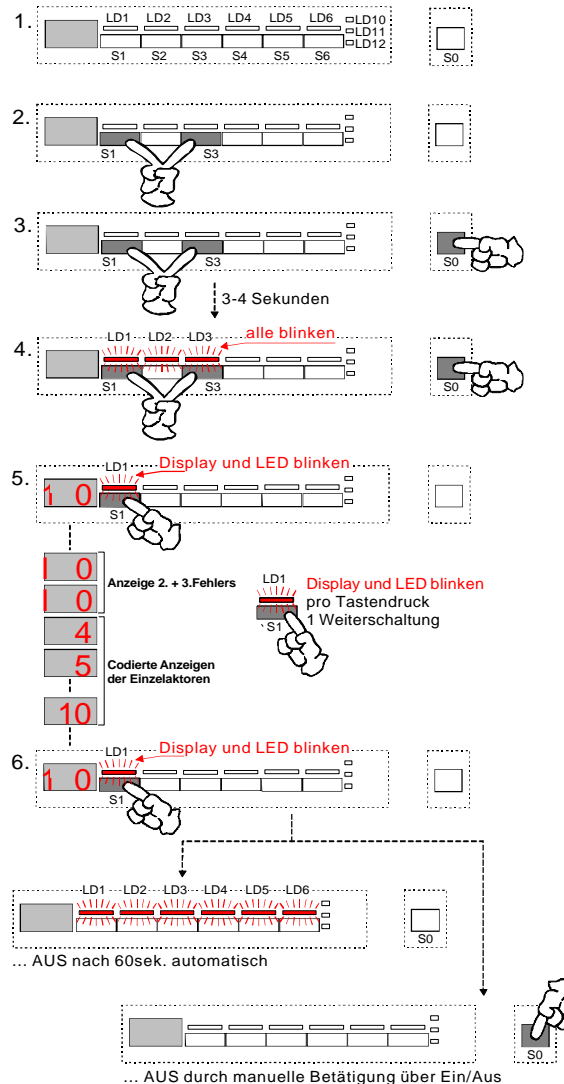
It is generally valid:

For calling all service functions you always have first to actuate function keys S1 and S3 before switching on the appliance by ON/OFF switch S0.

The keys have to remain pressed about 3 seconds to activate the function.

This procedure is intentionally different to that for the customer functions.

Calling above-mentioned service function



Calling the functions

"readout of fault memory" and "single actuator selection"

1. Appliance in switched-off condition
 2. Press keys S1 and S3 simultaneously and ...
 3. / 4. ... and switch on the appliance by ON/OFF switch S0. For that keep pressed keys S1 and S3 until the 3 confirmation LEDs LD1, LD2 and LD3 are flashing. (A temporary flashing up of LEDs is possible and no fault!)
 5. / 6. By actuating the function key S1 you now can call the function. The confirmation LED LD1 continues flashing, LEDs LD2 and LD3 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 S1 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
 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 (see description page B 19 / "Survey of fault displays")
- All positions can be called scrolling as many time as one wants.

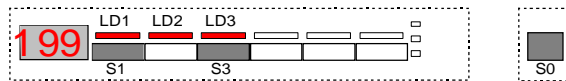
The several steps are switched onward manually by pressing any key. If the function key S1 is not pressed within 60 seconds, the service function is left automatically. All LEDs of the program and option keys are lit. The indication in the display goes out. The appliance is in the "prestart" mode again. It is also possible to leave the function by switching off the appliance by ON/OFF key S0.

8.3.2. EDW 1503 Service function / LED test with integr. deletion of the fault memory:

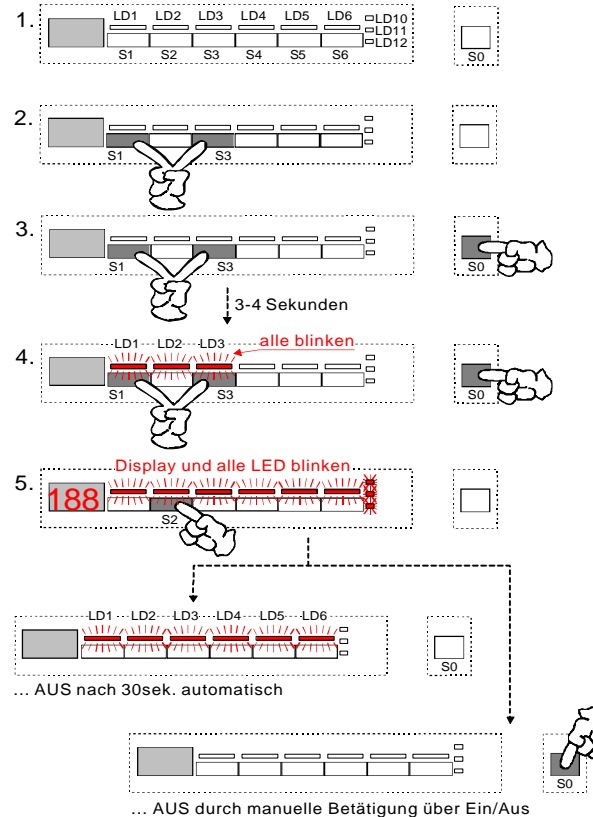
General information

- Calling the service functions is executed in all designs resp. key arrangements analogously.
- For that you always have to use keys S0, S1, S2 and S3 independent of their variant-dependent program load.
- In the service function mode, the key S2 is ALWAYS responsible for the function "LED test with integrated deletion of the fault memory".

EDW 1503 / VGA



Calling above-mentioned service function



Calling the functions

"LED test with integrated deletion of the fault memory"

1. Appliance in switched-off condition
2. Press keys S1 and S3 simultaneously and ...
3. / 4. ... and switch on the appliance by ON/OFF switch S0. For that keep the keys S1 and S3 pressed simultaneously until the 3 confirmation LEDs LD1, LD2 and LD3 are flashing. (A temporary flashing up of LEDs is possible and no fault!)
5. By actuating the function key S2 you now can call the function. All LEDs and "188" in the display are flashing about 30 seconds.

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.

All LEDs of the program and option keys are lit. The indication in the display goes out. The appliance is in the "prestart" mode again.

The function can be left even earlier by switching off the appliance by ON/OFF key S0.

In any case, the service fault memory is deleted.

It is generally valid:

For calling all service functions you always have first to actuate the function keys S1 and S3 before switching on the appliance by ON/OFF switch S0. The keys have to remain pressed about 4 seconds to activate the function.

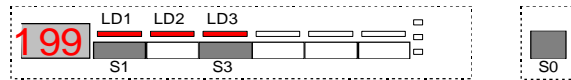
This procedure is intentionally different to that for the customer functions.

8.3.3. EDW 1503 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 S0, S1, S2 and S3 independent of their variant-dependent program load.
- In the service function mode, the key S3 is ALWAYS responsible for calling the "manufacturing test routine"

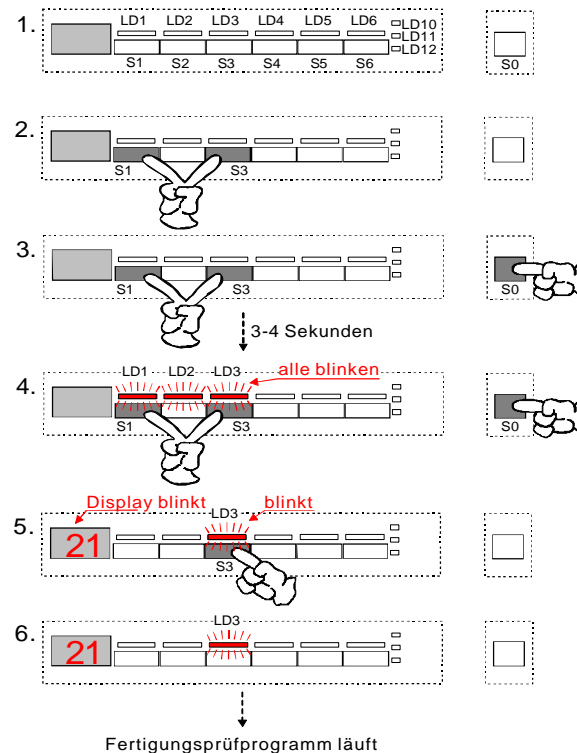
EDW 1503 / VGA



It is generally valid:

For calling all service functions you always have first to actuate the function keys S1 and S3 before switching on the appliance by ON/OFF switch S0! The keys have to remain pressed about 4 seconds to activate the function. This procedure is intentionally different to that for the customer functions.

Calling above-mentioned service function



Calling the function "manufacturing test routine"

1. Appliance in switched-off condition
2. Press keys S1 and S3 simultaneously ...
3. / 4. ... and switch on the appliance by ON/OFF switch S0. For that keep the keys S1 and S3 pressed until the 3 confirmation LEDs LD1, LD2 and LD3 are flashing. (A temporary flashing up of LEDs is possible and no fault!)
5. By actuating the function key S3 you can call the manufacturing test routine. The key LED LD3 continues flashing, LEDs LD1 and LD2 go out. The presumable run time is indicated in the display flashing.
6. The test routine starts automatically. The key LED LD3 continues flashing. The display is now indicating the expected run time.

From that moment the same input philosophy is valid for the manufacturing test routine as for normal washing cycles.

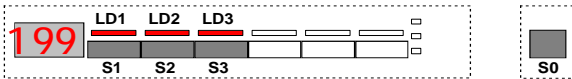
- ☞ *cycle run and cycle end*
(see description page B 5)
- ☞ *delete cycle in advance*
(see description page B 6)
- ☞ *interrupt program*
(see description page B 8)

8.3.4. EDW 1503 Service function / disconnection pulse wash

General information

- Calling the Service Functions is similar with all designs or key arrangements.
- Always use the keys S0, S1, S2 and S3 independently from their program assignment depending on the model.
- In service function mode, you can ALWAYS call the Pulse Wash function by using keys S2 and S3. Use key S2 to modify the setting.
- From works settings, Pulse Wash is always set to be active.

EDW 1503 / VGA



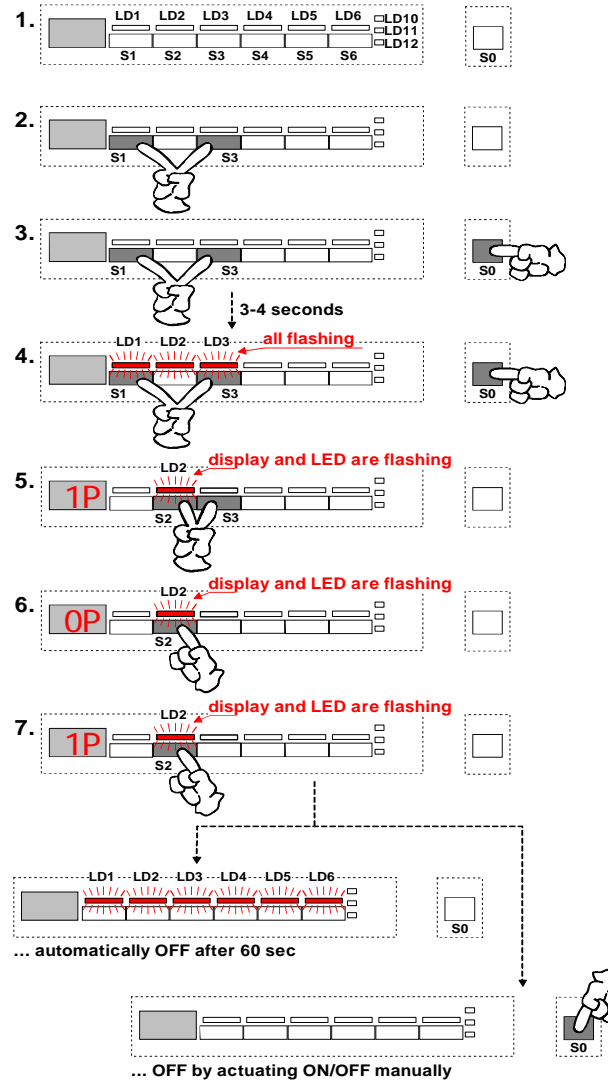
- If you deselect Pulse Wash the rot.speeds of the circ. pump are always increased to "High Pulse Speed". Water consumption slightly increases. Extension of time is possible depending on the temperature.

Always applicable:

In order to call the totality of service functions, always first press the function keys S1 and S3 prior to switching the appliance on by means of ON/OFF switch S0! 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. Appliance should be switched off
2. Simultaneously press S1 and S3 and ...
3. / 4. ... switch on the appliance with ON/OFF switch S0. Keep keys S1 and S3 pressed simultaneously until the 3 acknowledging LEDs LD1, LD2 and LD3 are flashing.
(Short-time illumination of LEDs is possible and does not constitute any fault)
5. Simultaneously press S2 and S3 until the acknowledging LED-LD2 is flashing. LEDs LD1 and LD3 will go dark. The current status whether Pulse Wash is active or not is indicated in the display.
1P = Pulse Wash is active
OP = Pulse Wash is switched off

Switching the Pulse Wash Function on or off:

6. / 7. Any further activation of function key S2 will switch the addition alternately on or off.

Leaving the function

After the last key pressure of the function key S2 you can leave the special program as follows. After 60 seconds all LEDs of the program and option keys are lit automatically. The indication in the display goes out. The appliance is in the "prestart" mode again or the appliance is switched off by ON/OFF key S0.

Saving the set condition

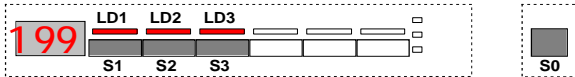
The currently valid condition is saved directly after any entry.

8.3.5. EDW 1503 Service function / additional rinsing process

General information

- Calling the Service Functions is similar with all designs or key arrangements.
- Always use the keys S0, S1, S2 and S3 independently from their program assignment depending on the model.
- In service function mode, you can ALWAYS call the "additional wash cycle" by using keys S1 and S2. Use key S1 to modify the setting.
- From works settings, no additional wash cycle is set.

EDW 1503 / VGA



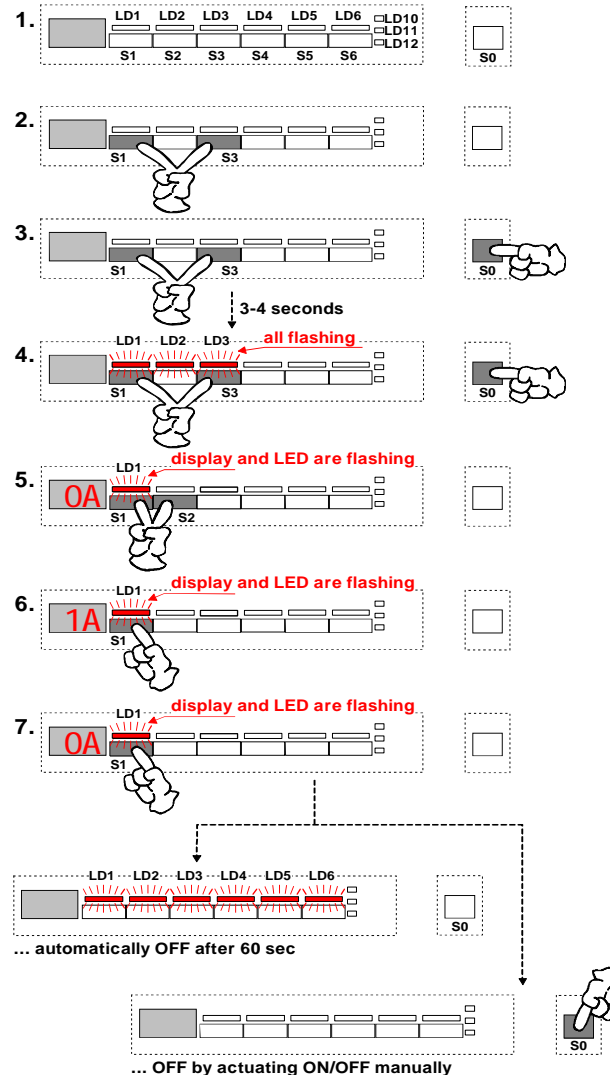
- **If this function is activated, an additional wash cycle is ALWAYS added, except for "prewash extra".** This will extend program run times up to about 10 minutes. This additional wash cycle will be executed until the function is deactivated again.

Always applicable:

In order to call the totality of service functions, always first press the function keys S1 and S3 prior to switching the appliance on by means of ON/OFF switch S0! 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. Appliance should be switched off
2. Simultaneously press S1 and S3 and ...
3. / 4. ... switch on the appliance with ON/OFF switch S0. Keep keys S1 and S3 pressed simultaneously until the 3 acknowledging LEDs LD1, LD2 and LD3 are flashing.
(Short-time illumination of LEDs is possible and does not constitute any fault)
5. Simultaneously press S1 and S2 until the acknowledging LED-LD1 is flashing. LEDs LD2 and LD3 will go dark. The current status whether the Add. Wash Cycle is active or not is indicated in the display.
1A = Add. Wash Cycle is selected
0A = No Add. Wash Cycle

Switching this function on or off:

6. / 7. Any further activation of function key S1 will switch the addition alternately on or off.

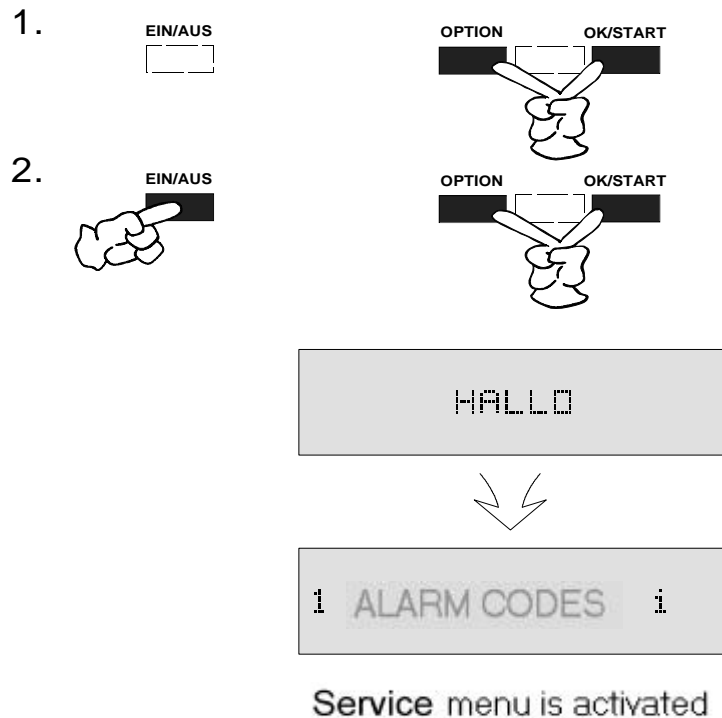
Leaving the function


After the last key pressure of the function key S1 you can leave the special program as follows.
After 60 seconds all LEDs of the program and option keys are lit automatically. The indication in the display goes out. The appliance is in the "prestart" mode again or the appliance is switched off by ON/OFF key S0.




Saving the set condition


The currently valid condition is saved directly after any entry. will be saved.

8.4.1. Accessing the service menu




 So that the service menu can be called up, the dishwasher must be switched off!
The button lock is also not to be activated.

1.  Press the Option and Ok/Start buttons at the same time and
2.  ...to this end, switch the dishwasher on with the On/Off button.
 The two buttons Option and Ok/Start must be kept pressed in until the text "1 ERROR CODE i" appears in the text line after the word "HALLO".

 The Service Menu is activated!
The selection of individual menu items in the service menu is described in detail on the following pages.

The selection can only be reset by switching the dishwasher off.

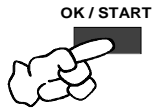
 If no selection is made in the service menu, the setting automatically returns to the initial selection after a pre-determined time (Time out).

8.4.2. Service menu / Error code and actuator test

1.



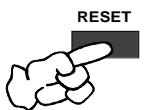
2.



3.



4.



or automatically after 60 seconds

- 2. ↵ The error memory can be read out by pressing the Ok/Start button.
 ↵ "1 ALARM CODE" appears in the display text line and the coded error is displayed next to the "i". (In the example only red fields)
 ↵ The error descriptions are explained in chapter 21.
 ↵ An additional 2 errors can be read out the next two times the Ok/Start button is pressed.

- 3. ↵ The actuator test is activated the next time the Ok/Start button is pressed.
 ↵ "2 ACTUATORS " appears in the display text line and the actuator which is triggered is indicated with a number.
 ↵ With each additional push of the button, the next stage is called up as follows.


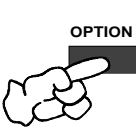






| | |
|----------------|---|
| 2 AKTUATORS 4 | Triggering of the regeneration valve |
| 2 AKTUATORS 5 | Triggering of the drain pump |
| 2 AKTUATORS 6 | Triggering of the inlet valve |
| | (Filling to the level - should the level already exist do not fill) |
| 2 AKTUATORS 7 | Triggering of the heater element |
| | (Only carried out when the level is detected) |
| 2 AKTUATORS 8 | Triggering of the circulation pump |
| 2 AKTUATORS 9 | Triggering of the detergent dispenser |
| 2 AKTUATORS 10 | Triggering of the dryer ventilation |
| 2 AKTUATORS 11 | Triggering of the autodosage <i>currently unused</i> |
| 2 AKTUATORS 12 | Triggering of the water hardness sensor <i>currently unused</i> |

- ↵ All 3 error memories and the complete actuator test can be called up any number of times by scrolling.

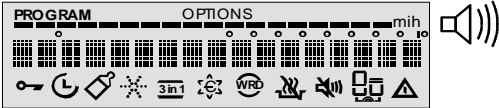

4. Leaving the function

By pressing the Reset button, the function is quitted and "SELECT PROGRAM" appears in the text field of the display or this occurs should no button be pressed within 60 seconds - or the dishwasher is deactivated with the On/Off button.






8.4.3. Service menu / Display test and deleting the error memory

1. 
2.  
 2.  Scroll through to the LED test service option with the option button.
 2.  Option "3 LED TEST" is shown in the text line of the display.
3.   

⇕ Anzeige im Wechsel ⇕


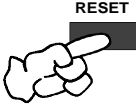
 

⇕ Anzeige im Wechsel ⇕

 
 3.  The option is activated by pressing the Ok/Start button.
 3.  As is shown in the left-hand graphic, the 3 display images repeatedly appear one after the other, in the same sequence until the function is quitted.
 3.  The signal tone also sounds for a long period, the exception being if it is deliberately deactivated.
4. **Leaving the function**

After the button has been pushed for the last time, the service menu can be quitted as follows.

 - ◆ ...by pressing the Reset button, the function is quitted and "SELECT PROGRAM" appears in the text field of the display
 - ◆ or this occurs should no button be pressed within 60 seconds
 - ◆ or the dishwasher is deactivated with the On/Off button.

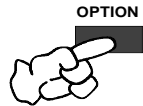
 If this service option is called up and activated, the customer service error memory will in all cases be deleted.
4.  or automaticly after 60 seconds

8.4.4. Service menu / Manufacturing test (Line test)

1.



2.



3.



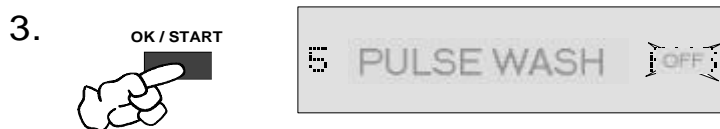
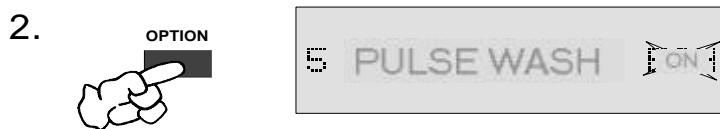
"programme runs"

2. ↵
↵ The option "3 LINE TEST" alternately displayed with "PRG. COUNTER" in the text line of the display, the number of completed dishwashing programs being shown next to it.
 - ◆ This program info. serves to determine how many dishwashing cycles the dishwasher has already completed during its serviceable life. This counter cannot be reset!
3. ↵
↵ The option is activated by pressing the Ok/Start button.
The manufacturing program runs.

The manufacturing test program resets the display settings to the delivery state.

8.4.5. Service menu / Pulse wash

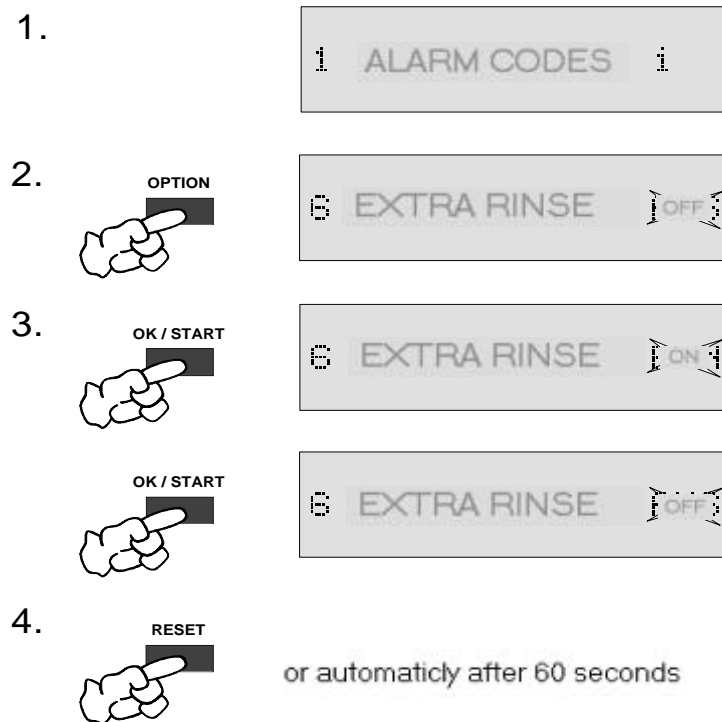
- ♦ Pulse Wash is always set to active ex works.
- ♦ If the pulse rinsing function is deactivated, the rotational speed of the circulating pump is generally increased to "High Pulse Speed" .
- ♦ The water consumption increases slightly.
- ♦ A time extension is possible depending on the temperature.









2. ↵ Scroll through to the pulse rinsing option with the option button.
↵ Service option is shown in the text line of the display.
↵ (example "5 PULS WASH ON")
↵ The text part "5 PULSE RINSING" is illuminated, the setting "ON" flashes.
3. ↵ The option can now be deactivated "OFF" or activated "ON" each time the Ok/Start button is pressed.
↵ The text part "5 PULSE RINSING" is illuminated, the setting "ON" or "OFF" flashes.
4. **Leaving the fuction**
After the button has been pushed for the last time, the service menu can be quitted as follows.
 - ♦ ...by pressing the Reset button, the function is quitted and "SELECT PROGRAM" appears in the text field of the display
 - ♦ or this occurs should no button be pressed within 60 seconds
 - ♦ or the dishwasher is deactivated with the On/Off button.

8.4.6. Service menu / Extra rinse

- ♦ No additional dishwashing process has been selected ex works.
- ♦ If the function is activated, an additional dishwashing process is generally included with the exception of the dishwashing program "Pre-Rinse".
- ♦ This results in the program running times being prolonged by max. approx. 10 minutes..
- ♦ This additional dishwashing will be repeated until the function is deactivated in the service mode again.
- ♦ This means that this service function differs from the program option "Extra Rinsing", with which the customer can deselect the additional rinsing process at any time whatsoever.



2.  Scroll through to the extra rinsing service option with the option button.
 Service option is shown in the text line of the display.
 (example "6 EXTRA RINSE OFF")
 The text part "6 EXTRA RINSE" is illuminated, the setting "OFF" flashes.
3.  The option can now be added on "ON" or deactivated "OFF" each time the Ok/Start button is pressed.
 The text part "6 EXTRA RINSE" is illuminated, the setting "ON" or "OFF" flashes.
4. **Leaving the function**
After the button has been pushed for the last time, the service menu can be quitted as follows.
 - ♦ ...by pressing the Reset button, the function is quitted and "SELECT PROGRAM" appears in the text field of the display
 - ♦ or this occurs should no button be pressed within 60 seconds
 - ♦ or the dishwasher is deactivated with the On/Off button.

8.4.7. Service menu / Brightness



- ♦ The brightness value 10 is set ex-works.
- ♦ Setting values of 0 (dark display) to 10 (light display) possible.

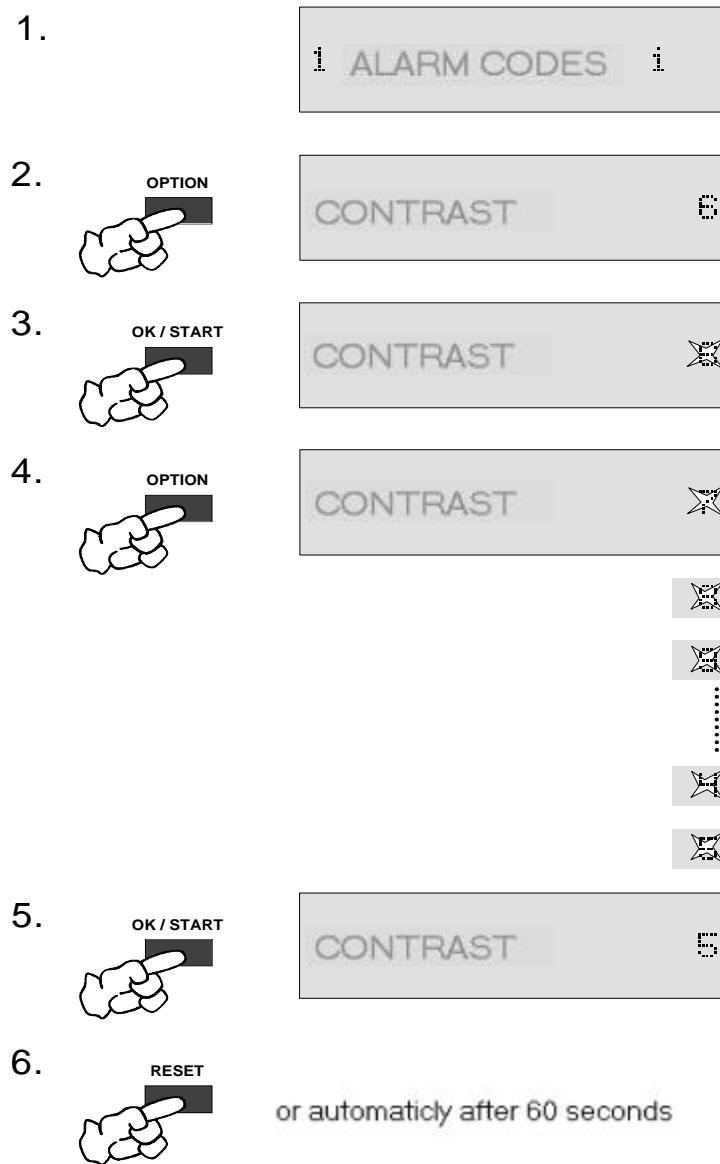
- ↔ Scroll through to the brightness service option with the option button.
 - ↔ Service option is shown in the text line of the display.
 - ↔ (Example "*Brightness 10*")
- ↔ The brightness selection is activated by pressing the Ok/Start button.
 - ↔ The currently set value appears in the text line of the display
 - ↔ The text part "BRIGHTNESS" is illuminated, the brightness setting flashes.
- ↔ The brightness can be changed with each push of the Option button.
 - ↔ However, in the service menu this is only possible in one direction
 - ↔ Sequence: ... - 10 - 0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 0 - ...
 - ↔ The text part "BRIGHTNESS" is illuminated, the brightness setting flashes.
- ↔ The new brightness setting is taken over by pressing the Ok/Start button.
 - ↔ The new brightness setting is shown in the text line of the display.
 - (Example "*Brightness 8*")

6. Leaving the function

After the button has been pushed for the last time, the service menu can be quitted as follows.






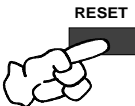
- ♦ ...by pressing the Reset button, the function is quitted and "SELECT PROGRAM" appears in the text field of the display
- ♦ or this occurs should no button be pressed within 60 seconds
- ♦ or the dishwasher is deactivated with the On/Off button.

8.4.8. Service menu / Contrast




- ♦ The contrast value is pre-set to 6 ex-works.
 - ♦ Setting values of 0 (lowest contrast) - 10 (highest contrast) are possible.
2. ⌂ ⌂ Scroll through to the contrast service option with the option button.
⌂ ⌂ Service option is shown in the text line of the display.
⌂ ⌂ (Example "CONTRAST 6")
 3. ⌂ ⌂ The brightness selection is activated by pressing the Ok/Start button.
⌂ ⌂ The currently set value appears in the text line of the display
⌂ ⌂ The text part "CONTRAST" is illuminated, the brightness setting flashes.
 4. ⌂ ⌂ The contrast can be changed with each push of the Option button.
⌂ ⌂ However, in the service menu this is only possible in one direc
⌂ ⌂ Sequence: ... - 6 - 7 - 8 - 9 - 10 - 0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - ...
⌂ ⌂ The text part "CONTRAST" is illuminated, the contrast setting flashes.
 5. ⌂ ⌂ The new contrast setting is taken over by pressing the Ok/Start button.
⌂ ⌂ The new contrast is now shown in the text line of the display.
(Example "CONTRAST 5")
 6. **Leaving the function**
After the button has been pushed for the last time, the service menu can be quitted as follows.
 - ♦ ...by pressing the Reset button, the function is quitted and "SELECT PROGRAM" appears in the text field of the display
 - ♦ or this occurs should no button be pressed within 60 seconds
 - ♦ or the dishwasher is deactivated with the On/Off button.

8.4.9. Service menu / Water hardness

1. 
 2. 
 2. ↻ Scroll through to the water hardness option with the option button.
 ↻ Service option is shown in the text line of the display.
 ↻ (Example "WATER HARDNESS 4")
 3. 
 3. ↻ The water hardness setting is activated by pressing the Ok/Start button.
 ↻ The currently set value appears in the text line of the display
 ↻ The text part "WATER HARDNESS" is illuminated, the hardness flashes.
 4. 
 4. ↻ The water hardness can now be changed with each push of the option button.
 ↻ However, in the service menu this is only possible in one direc
 ↻ Sequence: ... - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 1 - 2 - 3 - 4 - 5 - ...
 ↻ The text part "WATER HARDNESS" is illuminated, the hardness setting flashes.
 5. 
 5. ↻ The new water hardness setting is taken over by pressing the Ok/Start button.
 ↻ The new water hardness setting is shown in the text line of the display.
 (Example "WATER HARDNESS 3")
 6. 

or automaticly after 60 seconds
- 6. Leaving the function**
 After the button has been pushed for the last time, the service menu can be quitted as follows.
- ◆ ...by pressing the Reset button, the function is quitted and "SELECT PROGRAM" appears in the text field of the display
 - ◆ or this occurs should no button be pressed within 60 seconds
 - ◆ or the dishwasher is deactivated with the On/Off button.

8.4.1. The Demo mode

 To this end, switch the dishwasher on with the On/Off button.

- **Call-up demo mode**

- ↳ In order to access the Demo-Mode, it might be necessary to press the RESET button numerous times until the text "SELECT PROGRAM" appears in the text line of the display.
- ↳ The Demo mode is called-up by pressing the two buttons OK/Start and Reset for approx. 10 seconds at the same time.
- ↳ "DEMO OFF" appears in the display.
- ↳ The Demo mode can be activated by pressing the Option button. Hereby, the two settings "DEMO ON" and "DEMO CONTINUOUS" can be selected.
- ↳ The preselection is activated and the Demo mode activated by pressing the Ok/Start button.
- ↳ The texts "SELECT PROGRAM" and "DEMO ACTIVE" alternately appear in the display.

- **Mode A: "DEMO ON"**

- ↳ The "DEMO ON" mode enables the user to operate the dishwasher normally in that he sets the programs and options.
- ↳ If the program is started by pressing the OK/Start button and it runs, no actuators are triggered.
- ↳ Obviously, the individual program parts are completed faster than normal so that there are greater leaps in time until the end of the program is reached.
- ↳ This mode serves presentation purposes.

- **Mode B: "DEMO CONTINUOUS"**

- ↳ The "DEMO CONTINUOUS" mode functions analogue to the "DEMO ON" mode but the selected program runs continuously until it is cancelled with the Reset button.
- ↳ This mode mainly serves the purpose of allowing the dishwasher to run in a continuous simulation operation in sales.

- **Deactivate demo mode**

- ↳ To deactivate the Demo-Mode, the Reset button must be pressed as long as "SELECT PROGRAM" is in the display.
- ↳ The press the Reset button for approx. 6 seconds.
- ↳ During this period, the texts "SELECT PROGRAM" and "DEMO ACTIVE" alternately appear in the display.
- ↳ The Demo mode is deactivated if the text "LANGUAGE ENGLISH" is shown in the text line. In Juno dishwashers, the text "LANGUAGE GERMAN" is displayed. The display is now reset to the delivery status

9.1.1. Overview Errors Displayed

| | ERROR | Entry in the text line of the display | | Acoustic display | Short description | Was passiert? |
|-----|--------------------------------------|---------------------------------------|--|--|---|--|
| | | Text display customer | Text display Servicemode / cust. service | Number of signal tones 2Hz / 5sek. pause if activated | | |
| | Clear rinse missing | PLEASE CLOSE DOOR | --- | --- | | |
| | Klarspüler fehlt | REFILL RINSE AID | --- | --- | | |
| | Salt missing | REFILL SALT | --- | --- | | |
| | Filter soiled* | CLEAN FILTER | --- | --- | Errors are always displayed at the end of the program if the internal counter has reached 20. After the next program start, the counter will be set to 0. | |
| i10 | Tap closed | OPEN THE TAP | ERROR CODE i10 | 1 mal | Only has validity for program steps with filling to level: the forward break-over point of the pressure control device is not reached after 60 sec. at the latest. The following has validity for each 1st static filling of a program part: Timeout 90 Sec. > 45 Sec. Pump out > error message | The program is halted and can be continued after remedying the error by activating the Progr. button. However, should the error not be remedied and the progr. button is activated, the dishwasher continues until the next part program drying. |
| i20 | Drain pump | DRAIN BLOCKED | ERROR CODE i20 | 2 mal | Switch-back point of the pressure control device is not reached after max. 120 sec.. Program is halted. | The program is halted and can be continued after remedying the error by activating the Program button |
| i30 | Aqua-Control | SERVICE CODE i30 | ERROR CODE i30 | 3 mal | Aqua-Control System directly deactivates the valve. | The program is halted and continues automatically after the error has been terminated. |
| i50 | Circulating pump Triac short circuit | SERVICE CODE i50 | ERROR CODE i50 | 5 mal | Tacho pulses are recognised although the U-Pump has not been triggered. | The program is terminated and water runs in until the forward break-over point of the pressure control device is reached. |
| i60 | Heating element | --- | ERROR CODE i60 | --- | No temperature increase of min. 1.5K was detected within a period of 3 min. during the heating phase. | Program continues until the end without the heating function! |
| i70 | NTC-sensor | --- | ERROR CODE i70 | --- | NTC short circuit or interruption. | Program continues until the end without the heating function! |
| i80 | EEPROM | --- | ERROR CODE i80 | --- | Communication error with the ext. EEPROM | |
| i90 | Check sum MCF / CCF | --- | ERROR CODE i90 | --- | Check sum (variants programming) MCF or check sum CCF is incorrect. Is only recognised after activation! | No program selection possible. ON/OFF-LED on |
| iA0 | Rinsing arm blocked | SPRAYARM BLOCKED | ERROR CODE iA0 | Daueron | The rotation of the rinsing arm is checked and evaluated at the start of the program and at the start of each of the program steps, in addition to after open/close door and a power failure.. | Error output until the rotational speed of the rotating arm is detected or no triggering takes place. |
| iB0 | Turbidity sensor | --- | ERROR CODE iB0 | --- | The opaqueness signal which is required for calibration is not achieved within a period of 15 sec. | Opaqueness is always detected. The program process is adapted accordingly. |
| iC0 | Communications error | --- | ERROR CODE iC0 | --- | The communication with the user interface is subjected to interference. | The dishwasher halts and waits until the communication is restored. |
| iD0 | Tacho | --- | ERROR CODE iD0 | --- | With a triggered circulating pump, no tacho pulse is detected for 5 + 20 sec.. | Circulating pump without control, heating switched off. This function is then rechecked in every step. |
| iF0 | Filling time error | --- | ERROR CODE iF0 | --- | The time limits is exceeded during filling | Program runs into the next part prog. without level. Subsequent clocking for the repeated obtaining of water is not applicable. Errors are reset after a complete pumping out. |

9.1.2. List of Possible Error Causes

| Code | Possible error causes | | |
|------------|--|--|---|
| i10 | No or not enough water let in | Water tap is closed or faulty No water pressure, pressure too low or changing Screen in front of inlet valve clogged Flow governor at inlet valve faulty Inlet valve faulty Inlet valve deenergized (faulty wiring or no activation by electronics) Inlet hose bent | |
| | Machine runs dry (Siphon effect) | Softener system clogged (by filling detergent into salt compartment, for instance) Upright installation without upright assembly kit Connection height of the discharge hose is lower than 30cm above appliance base Connection w/o siphon or air chamber | |
| | Water level inside appliance is not detected | Pressure controller faulty Pressure controller hose obstructed, bent or leaking Pressure controller wiring is faulty Screens in the appliance clogged (also check spray arm nozzles for clogging) | |
| i20 | Water is not pumped off | Fault with discharge pump Discharge pump deenergized (faulty wiring or no activation by electronics) Obstruction/blocking (filters in the appliance, discharge opening in discharge trough, discharge pump, discharge hose, siphon, cover plug at siphon connection not removed during first commissioning) Discharge hose bent or connection height above 100cm Ball valve in discharge trough glued / blocked (discharge pump does not aerate) | |
| | Water level inside appliance is not detected | Pressure controller faulty Pressure controller hose obstructed or bent Insulation fault with heating element | |
| i30 | Water remains in base trough | Leakage | Leakage at recipient, discharge trough, hose system (e.g., Y-type hose), regeneration dosage etc. Inlet valve faulty (does not close) Water inlet too high (faulty flow governor at inlet valve) Connecting hose regenerating dosing to discharge trough blocked Water inlet channels in regeneration dosing unit blocked |
| | | Overflow | Screens in the appliance clogged (also check spray arm nozzles for clogging) Pressure controller faulty Pressure controller hose obstructed, bent or leaking Pressure controller wiring 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 | |
| i50 | Motor triac short-circuit | Faulty electronics | |
| i60 | No rise in temperature | Heating element faulty Heating element deenergized (faulty wiring or no activation by electronics) | |
| i70 | NTC signal faulty | Thermal sensor defect Wiring faulty (e.g. short-circuit or interruption) | |
| i80 | Check sum error EEPROM | Mains filter defect Faulty electronics EMC problem | |
| i90 | Check sum error model programming | Faulty electronics | |
| iA0 | Upper spray arm does not rotate | Blocking by dishes or cutlery basket Nozzles clogged (drive nozzles at spray arm extremities) Spray arm leaking (welding seam) Spray arm bearing blocked (dirt, foreign bodies) Screens in the appliance clogged Bellows at connecting pipe not sealed at recipient rear wall (bellows not contacting/glued together) Circulating pump 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 Spray arm detection sensor faulty Wiring faulty | |
| iB0 | turbidity signal faulty | turbidity sensor defect Wiring faulty turbidity sensor dirty Foam production in the appliance (splashed rinsing liquid / leaking dosing unit or con-compatible detergent / rinsing agent used) | |
| iC0 | communication faulty | Faulty electronics Wiring faulty | |
| iD0 | Circulation pump no function | Circulating pump / capacitor defect Circulating pump deenergized (faulty wiring or no activation by electronics) | |
| | No tachometer signal recognized | Tachometer generator defect Wiring faulty | |
| iF0 | Time limit during filling exceeded | Problem with water inlet in general - see Error code i10, pipette effect in particular (also look for an error memory entry i10) | |
| | | Problem by incomplete pumping in previous program cycle (remaining water) - see Error code i20 (also look for an error memory entry i20) 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) | |

9.2.1. Overview Errors Displayed

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

| Error Name | Display on Screen | Display by END LED <small>2Hz / 5sec. Pause</small> | Acoustic Indication <small>No.of Beeps</small> <small>If available for this model</small> | Error Display visible for Customer** | | Call Error Memory (Service) | | Output via Indicator Lamp <small>If available for this model</small> | Short Explanation | What happens? |
|------------------------------------|-------------------|--|---|--------------------------------------|----|-----------------------------|----|---|---|--|
| | | | | Display PAA | AK | Display PAA | AK | | | |
| Water tap closed | | 1 x flashing | 1 x | ☺ | ☺ | ☺ | ☺ | 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 | | 2 x flashing | 2 x | ☺ | ☺ | ☺ | ☺ | --- | 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 | | 3 x flashing | 3 x | ☺ | ☺ | ☺ | ☺ | --- | Aqua-Control System switches off solenoid directly. | Programme stops and restarts automatically when error has terminated. |
| Recycling pump Triac short-circuit | | 5 x flashing | 5 x | ☺ | | ☺ | ☺ | --- | Tacho signals are recognized although rec. pump is not selected. | Programme stops and water is filled up until reset point of pressostat |
| Heating | | 6 x flashing | 6 x | | | ☺ | ☺ | --- | During heating, temperature rise by min. 1.5K is not detected within 3min. | Programme is continued until its end without heating function! |
| NTC Sensor | | 7 x flashing | 7 x | | | ☺ | ☺ | --- | NTC short-circuit or break. | Programme is continued until its end without heating function! |
| EEPROM | | 8 x flashing | 8 x | ☺ ? | | | | --- | Communication error with ext. EEPROM | |
| Check sum MCF / CCF | | 9 x flashing | 9 x | | | ☺ | ☺ | --- | 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 | | 10 x flashing | 10 x | | ☺ | ☺ | ☺ | 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. |
| Turbidity sensor | | 11 x flashing | 11 x | | | ☺ | ☺ | --- | The turbidity signal required for calibration is not reached with 15secs. | Always recognition of turbidity. Programme sequence is adapted accordingly. |
| Communication error | | 12 x flashing | 12 x | | | ☺ | ☺ | --- | Communication failure with User Interface. | Machine stops, waiting until communication is cleared. |
| Tacho | | 13 x flashing | 13 x | | | ☺ | ☺ | --- | 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 | | 14 x flashing | 14 x | | | ☺ | ☺ | --- | 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

9.2.2. List of Possible Error Causes

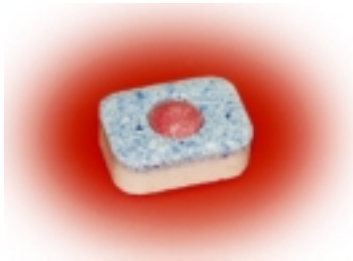
| Code | Possible error causes | | |
|------------|--|--|---|
| i10 | No or not enough water let in | Water tap is closed or faulty No water pressure, pressure too low or changing Screen in front of inlet valve clogged Flow governor at inlet valve faulty Inlet valve faulty Inlet valve deenergized (faulty wiring or no activation by electronics) Inlet hose bent | |
| | Machine runs dry (Siphon effect) | Softener system clogged (by filling detergent into salt compartment, for instance) Upright installation without upright assembly kit Connection height of the discharge hose is lower than 30cm above appliance base Connection w/o siphon or air chamber | |
| | Water level inside appliance is not detected | Pressure controller faulty Pressure controller hose obstructed, bent or leaking Pressure controller wiring is faulty Screens in the appliance clogged (also check spray arm nozzles for clogging) | |
| i20 | Water is not pumped off | Fault with discharge pump Discharge pump deenergized (faulty wiring or no activation by electronics) Obstruction/blocking (filters in the appliance, discharge opening in discharge trough, discharge pump, discharge hose, siphon, cover plug at siphon connection not removed during first commissioning) Discharge hose bent or connection height above 100cm Ball valve in discharge trough glued / blocked (discharge pump does not aerate) | |
| | Water level inside appliance is not detected | Pressure controller faulty Pressure controller hose obstructed or bent Insulation fault with heating element | |
| i30 | Water remains in base trough | Leakage | Leakage at recipient, discharge trough, hose system (e.g., Y-type hose), regeneration dosage etc. Inlet valve faulty (does not close) Water inlet too high (faulty flow governor at inlet valve) Connecting hose regenerating dosing to discharge trough blocked Water inlet channels in regeneration dosing unit blocked |
| | | Overflow | Screens in the appliance clogged (also check spray arm nozzles for clogging) Pressure controller faulty Pressure controller hose obstructed, bent or leaking Pressure controller wiring 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 | |
| i50 | Motor triac short-circuit | Faulty electronics | |
| i60 | No rise in temperature | Heating element faulty Heating element deenergized (faulty wiring or no activation by electronics) | |
| i70 | NTC signal faulty | Thermal sensor defect Wiring faulty (e.g. short-circuit or interruption) | |
| i80 | Check sum error EEPROM | Mains filter defect Faulty electronics EMC problem | |
| i90 | Check sum error model programming | Faulty electronics | |
| iA0 | Upper spray arm does not rotate | Blocking by dishes or cutlery basket Nozzles clogged (drive nozzles at spray arm extremities) Spray arm leaking (welding seam) Spray arm bearing blocked (dirt, foreign bodies) Screens in the appliance clogged Bellows at connecting pipe not sealed at recipient rear wall (bellows not contacting/glued together) Circulating pump 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 Spray arm detection sensor faulty Wiring faulty | |
| iB0 | turbidity signal faulty | turbidity sensor defect Wiring faulty turbidity sensor dirty Foam production in the appliance (splashed rinsing liquid / leaking dosing unit or con-compatible detergent / rinsing agent used) | |
| iC0 | communication faulty | Faulty electronics Wiring faulty | |
| iD0 | Circulation pump no function | Circulating pump / capacitor defect Circulating pump deenergized (faulty wiring or no activation by electronics) | |
| | No tachometer signal recognized | Tachometer generator defect Wiring faulty | |
| iF0 | Time limit during filling exceeded | Problem with water inlet in general - see Error code i10, pipette effect in particular (also look for an error memory entry i10) | |
| | | Problem by incomplete pumping in previous program cycle (remaining water) - see Error code i20 (also look for an error memory entry i20) 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) | |

10. The new options

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

General information

- 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 - „Satinize“**

To which programmes can you add this option?

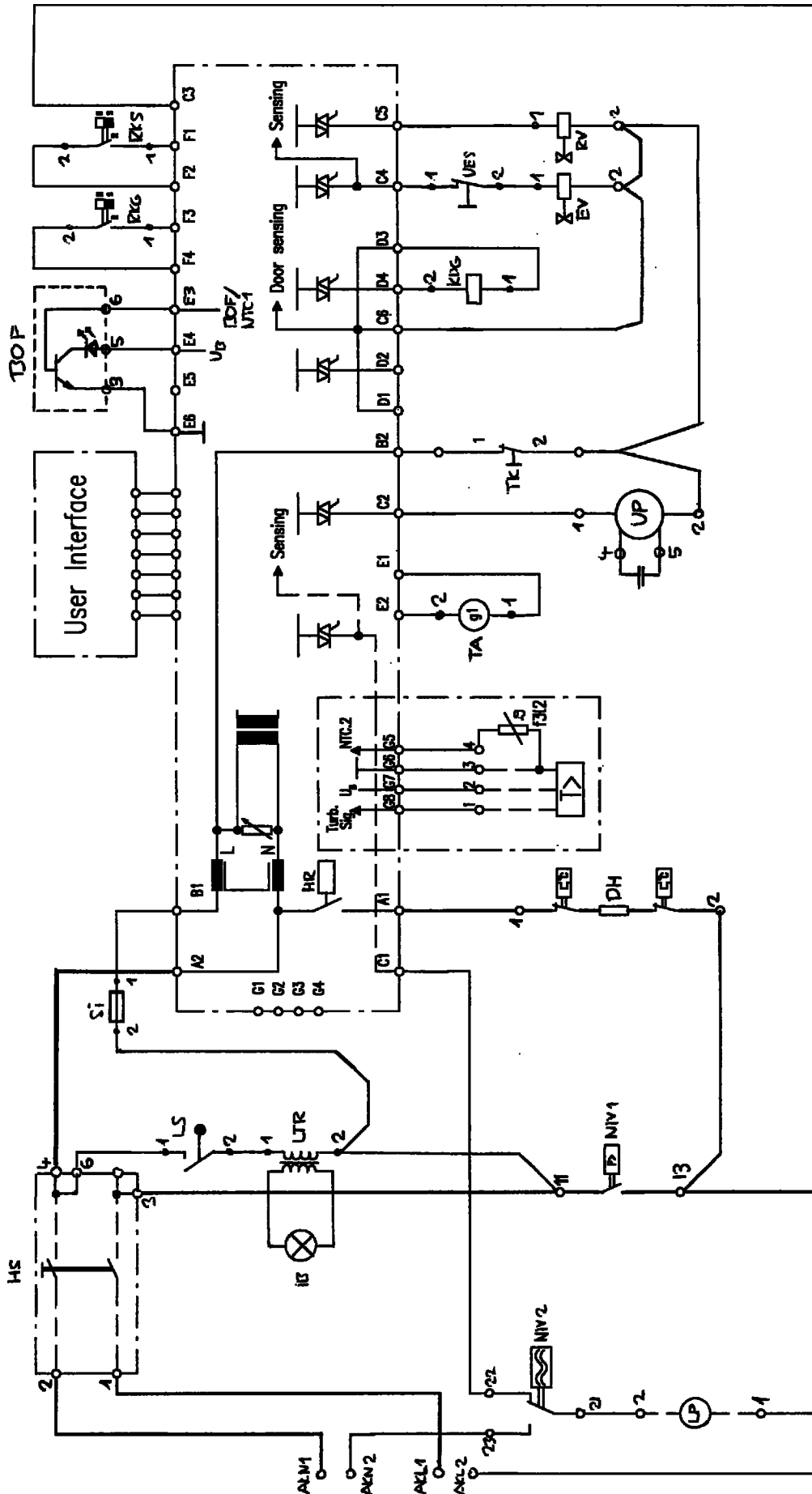
- "Sanitize" can be added to all wash cycles

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.

11.1. Electric circuit diagram

(Example EDW 1503, model with interior lighting)



11.2 Wiring diagramn (Example

