



# Service Manual

## Dishwasher

### 6ADP 5540 WH

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	8542 540 53720	
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	Family	VBL - LOW 5

## Technical data

### Dimension

Height	85.0	cm
Width	59.7	cm
Depth	61.0	cm
Weight	56	kg

### Electronic boards

Service boards	see spare part list
Serial boards	see on the boards itself
DUB	4619 724 06631
Programing of version and programmed control board, see „Service“ and „Data set“ on rating plate of inner door:	
CB programmed	464741
Data set	464731
Basic control board, not programmed see on the board itself	4619 724 17411

### Succession of programs

Programs	see program diagram
Succession	P1a - P3a - P5b - P6a - P7a

### Program information

Start indicator  
Pre wash  
Main wash  
Drying  
End

All programs will be locked after start. Changing the program or finishing the program will be possible only after pressing the start button for longer then 1.5 sec. (Break by customer)

A switching off the appliance or unplug the appliance for a while, this will frozen the program step and later on, the program continuos on the same position.

Exception: Switching off the appliance or unplug the appliance during the drying phase, this will lead directly to the end of the program.

### Water Volume at permanent spray system

Water	Volume	Level
Regeneration	0.3 l	15 mm
Back rinse 3x	1.0 l	60 mm
Prewash	4.8 l	120 mm
Main wash	4.2 l	118 mm
Intermediate rinse 1	4.2 l	118 mm
Intermediate rinse 2	4.2 l	118 mm
Clear rinse	4.2 l	118 mm
Safety/ overflow	8.5 l	141 mm

### Measuring the level

Remove the coarse sieve, put in a measuring meter into the sump, measure the hight of the water level.

### Detergent max.

Pre-wash	10	cm <sup>3</sup>
Main-wash	40	cm <sup>3</sup>
Rinse aid	135	cm <sup>3</sup>
6 Dosage steps	1 - 6	ml

### Water pressure

Inlet pressure	0.3 - 10	bar
Spray pump pressure	0.3	bar

### Rotations

Spray pump motor	2800	RPM
Drain pump motor	3000	RPM
Spray arm lower	30 - 40	RPM
Spray arm upper	30 - 40	RPM

## Technical data

### Flow rates/ Inlet volume

Flow meter (at 0.3 bar = quantity 1.1 l/min)	208	Imp/l
Spray pump	45 - 65	l/min
Drain pump	16	l/min
Pump height max.	1.1	m
Inlet valve	4	l/min
Spray arm lower	~ 33	l/min
Sprayarm upper	~ 27	l/min
Shower top	~ 8	l/min

### Electrical base data

Voltage	240	V
Frequency	50	Hz
Total power	2.4	kW
Fuse	10	A

### Motor

### Spray pump motor permanent spray system

Voltage	220/ 240	V
Power consumption	145	W
HI	69	$\Omega$
HA	48	$\Omega$
Capacitor	4	$\mu$ F

### Drain pump motor

Voltage	220/ 240	V
Power consumption	30	W
Resistance	146	$\Omega$

### Heating (1 Element system)

Voltage	240	V
Power consumption	2.22	kW
Resistance	24.5	$\Omega$
Heating speed	~ 2.0	$^{\circ}$ C/min
Temperature on surface	~ 115	$^{\circ}$ C
Safety thermostat self reset		
(Temperature of water)	~ 85	$^{\circ}$ C
Fuse	206	$^{\circ}$ C

### Water valves

Waterstop system	Drip tray
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### Single electric inlet valve

Voltage	220/ 240	V
Frequency	50/ 60	Hz
Resistance	3.76	k $\Omega$

### Coil of dispenser

Voltage	220/ 240	V
Frequency	50/ 60	Hz
Resistance	1.3	k $\Omega$

### Reed contacts

flow meter	
rinse aid control	

### NTC

20 $^{\circ}$ C	58.1	k $\Omega$
25 $^{\circ}$ C	47.1	k $\Omega$
30 $^{\circ}$ C	38.2	k $\Omega$
40 $^{\circ}$ C	25.4	k $\Omega$
50 $^{\circ}$ C	17.2	k $\Omega$
60 $^{\circ}$ C	11.8	k $\Omega$
70 $^{\circ}$ C	8.3	k $\Omega$
80 $^{\circ}$ C	6	k $\Omega$
85 $^{\circ}$ C	4	k $\Omega$

### Accessory

If you need spare parts apart from the spare part list have a look in the Service Bulletin 4812 718 40084.

## Spare part list

**Model**  
**Service No.**  
**Version**

**6ADP 5540 WH**  
**854254053720**  
**854254053720**

Pos. No.	12NC Code	Description
003 0	<b>4812 440 19594</b>	Traverse
004 0	<b>4812 440 18952</b>	Drip tray assy
004 1	<b>4812 401 18402</b>	Holder
011 0	<b>4812 505 18357</b>	Foot short
022 0	<b>4812 440 18951</b>	Side panel left
022 1	<b>4812 440 18949</b>	Side panel right
024 0	<b>4812 440 10417</b>	Panel, rear
030 0	<b>4812 440 19755</b>	Table top WH
034 0	<b>4812 404 78237</b>	Spacer
034 1	<b>4812 404 78242</b>	Fastener table top
040 1	<b>4812 417 18774</b>	Hinge left
040 2	<b>4812 417 18773</b>	Hinge right
040 3	<b>4812 417 18923</b>	Protector f.door (set)
044 0	<b>4812 492 38358</b>	Spring f.door
047 0	<b>4812 404 48746</b>	Brake f.door
047 1	<b>4812 401 18397</b>	Band,brake
047 2	<b>4812 404 68023</b>	Hook
053 0	<b>4812 440 88887</b>	Plinth WH
053 4	<b>4812 440 88928</b>	Plinth rounded WH
061 0	<b>4812 466 88552</b>	Counter weight
103 0	<b>4812 440 19756</b>	Door outer WH
103 2	<b>4812 440 19778</b>	Corner piece set
120 0	<b>4812 440 19456</b>	Door,inner
120 1	<b>4812 440 18969</b>	Batten
130 0	<b>4812 417 58361</b>	Tilt lock cpl. wh
131 0	<b>4812 401 18416</b>	Hook lock
191 0	<b>4812 466 68564</b>	Gasket door
192 0	<b>4812 466 68467</b>	Gasket, door lower
241 0	<b>4812 458 19027</b>	Basket upper straight
241 1	<b>4812 458 18324</b>	Holder cups right wh
241 3	<b>4812 528 88068</b>	Wheel,basket upper (set)
241 6	<b>4812 310 18757</b>	Holder glasses KIT wh
241 8	<b>4812 466 68553</b>	Spacer cap set
241 9	<b>4812 528 88101</b>	Wheel,basket basket upper
242 0	<b>4812 310 28134</b>	Basket lower KIT
242 1	<b>4812 528 88069</b>	Wheel,basket lower wh
242 4	<b>4812 466 48091</b>	Fixation gr
243 0	<b>4812 458 18272</b>	Basket cutlery
261 0	<b>4819 462 38271</b>	Rail telescope, inner
261 1	<b>4812 462 79768</b>	Cap rail
261 2	<b>4812 462 78995</b>	Cap rail ahead
263 0	<b>4819 520 18013</b>	Ball cage cpl.
263 1	<b>4812 520 48001</b>	Ball Niro 8 D
303 1	<b>4812 460 38092</b>	Plate,handle WH
322 0	<b>4812 453 71654</b>	Insert panel
331 0	<b>4812 413 59028</b>	Knob program cpl. WH
332 0	<b>4812 410 28669</b>	Button WH
400 0	<b>4812 361 58334</b>	Motor +SP,50Hz,per.HP-PNT
405 0	<b>4812 360 18511</b>	Spray pump wo.Mot.per.HP,50Hz
405 1	<b>4819 515 28158</b>	Gasket
420 0	<b>4812 121 18132</b>	Capacitor
421 0	<b>4812 121 18158</b>	Interf.filter
430 0	<b>4812 360 18508</b>	Pump,draining cpl.
430 1	<b>4812 466 68689</b>	Gasket
450 0	<b>4812 259 28684</b>	Heating element

Pos. No.	12NC Code	Description
480 0	<b>4812 321 28405</b>	Cable harness set
480 1	<b>4812 321 28371</b>	Cable
480 3	<b>4812 401 18418</b>	Protector f.wiring
490 0	<b>4812 321 18051</b>	Cable,mains
490 1	<b>4812 321 28367</b>	Strain relief
521 0	<b>4812 214 78858</b>	Control board (CB)
571 0	<b>4812 281 28379</b>	Valve inlet
583 0	<b>4812 271 28407</b>	Switch diaphragm
620 0	<b>4812 218 38091</b>	User board (DUB)
633 0	<b>4812 271 38355</b>	Microswitch door
680 0	<b>4812 418 68155</b>	Combidosage
680 1	<b>4812 466 68495</b>	Gasket
681 1	<b>4812 466 68497</b>	Gasket
681 2	<b>4812 440 18975</b>	Flap
682 0	<b>4812 466 68496</b>	Gasket
691 0	<b>4812 282 68012</b>	Feeler NTC
701 0	<b>4812 530 28081</b>	Hose, inlet 3/8Z cpl. 5m
701 0	<b>4812 530 28082</b>	Hose, inlet 3/8Z cpl. 3m
701 0	<b>4819 530 28928</b>	Hose, inlet 2m
701 1	<b>4812 310 18302</b>	Yoke
701 2	<b>4822 480 50159</b>	Sieve inlet
710 2	<b>4819 310 38536</b>	Threaded ring
710 3	<b>4819 466 69562</b>	Gasket set
714 0	<b>4812 462 78012</b>	Threaded cap
716 0	<b>4812 418 68142</b>	Reg.dosage
716 1	<b>4812 466 68475</b>	Gasket
716 2	<b>4812 462 78994</b>	Cover
717 1	<b>4812 462 79793</b>	Stopper
721 1	<b>4812 360 68347</b>	Spray arm lower. cpl.
722 0	<b>4812 360 68348</b>	Spray arm upper wh
722 2	<b>4812 360 68349</b>	Spray arm 2nd level cpl. wh
723 0	<b>4812 360 68351</b>	Douche ceiling
726 1	<b>4812 530 29118</b>	Tube assembly cpl.
726 2	<b>4812 505 18208</b>	Nut
743 1	<b>4812 530 28102</b>	Hose, inlet
751 0	<b>4812 418 18338</b>	Water collector
755 0	<b>4812 530 29119</b>	Bend
755 2	<b>4812 530 48148</b>	Tray,leak
761 0	<b>4812 480 58122</b>	Sieve fine
761 2	<b>4812 418 18337</b>	Cover sieve
761 3	<b>4812 418 18341</b>	Cover
761 4	<b>4812 530 58141</b>	O-Ring
763 0	<b>4812 480 58123</b>	Sieve coarse
781 0	<b>4812 530 29113</b>	Hose,draining
781 3	<b>4812 281 28417</b>	Flap non-return
783 4	<b>4812 530 28904</b>	Hose 10x3x265+10
783 6	<b>4812 530 28824</b>	Hose 10,3X3X245
791 0	<b>4812 532 68099</b>	Gasket
791 4	<b>4812 466 68503</b>	Gasket
791 5	<b>4812 466 68504</b>	Gasket
901 0	<b>4822 401 10258</b>	Clamp,hose 10-18 mm
901 1	<b>4812 401 18424</b>	Strap 050,0
901 2	<b>4812 401 18157</b>	Strap 32-50/9 C61
901 5	<b>4812 401 48573</b>	Strap 028,6
904 0	<b>4812 462 78998</b>	Threaded cap



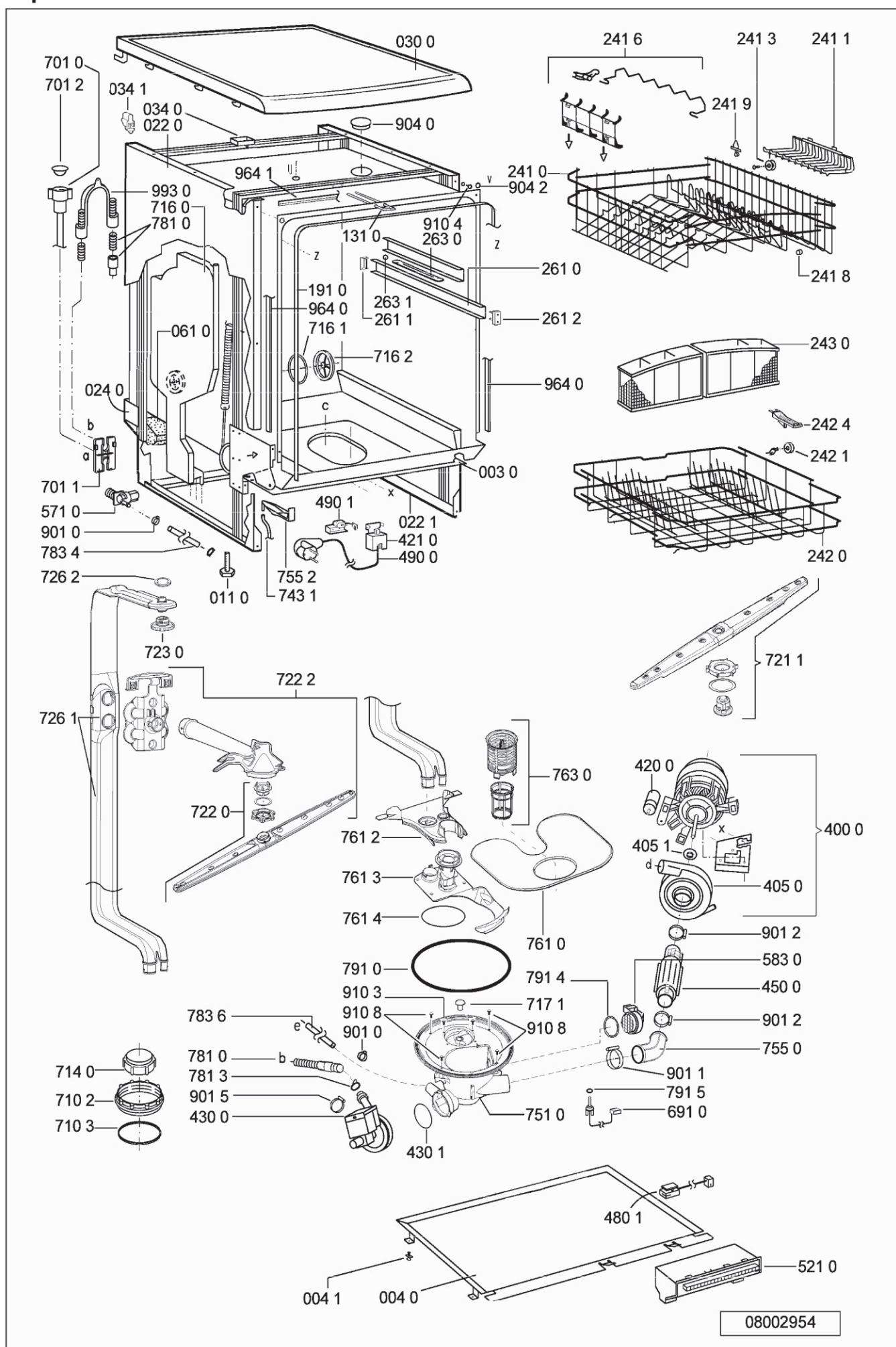
## Spare part list

**Model** 6ADP 5540 WH  
**Service No.** 854254053720  
**Version** 854254053720

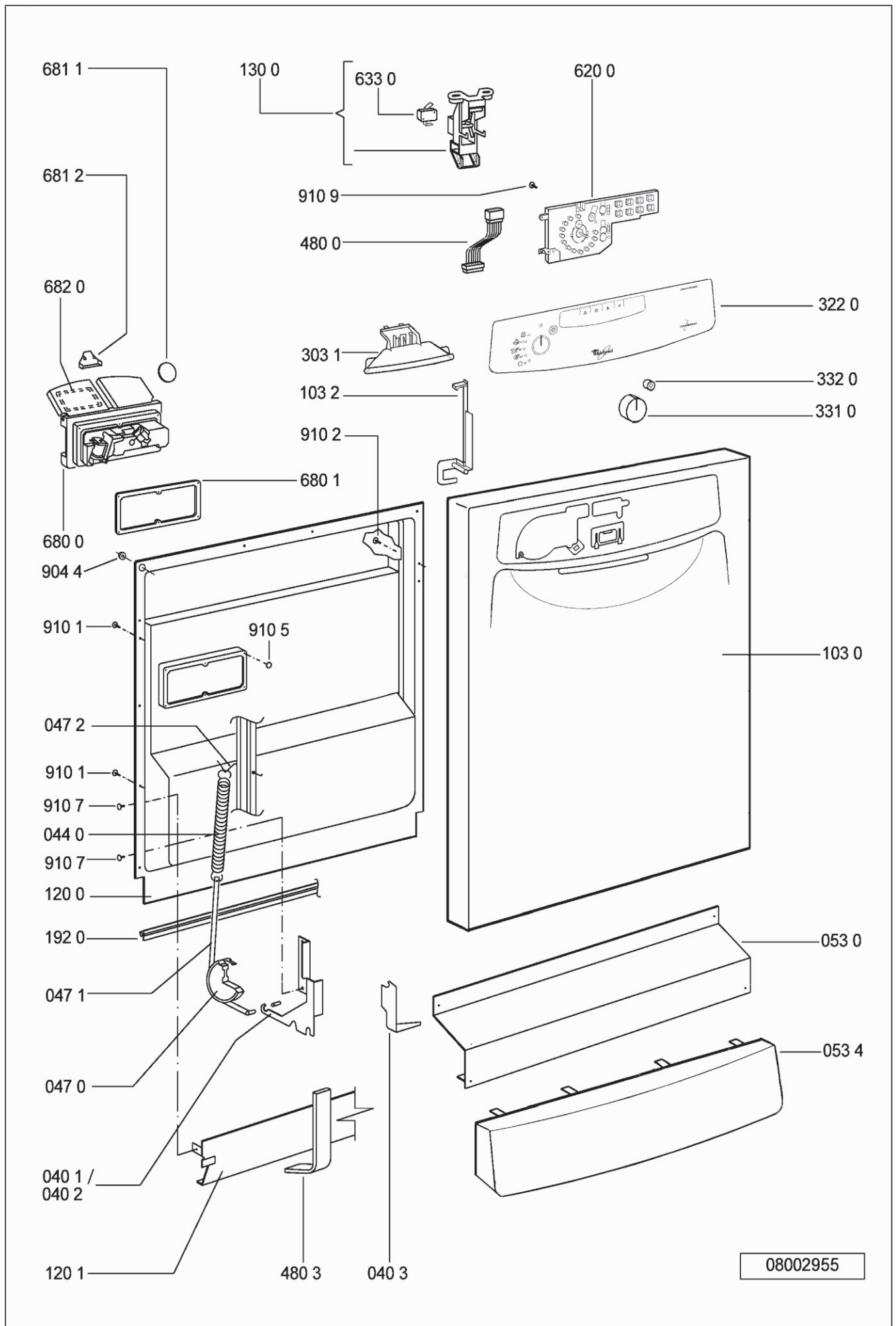
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Pos. No.	12NC Code	Description
904 2	<b>4812 462 79635</b>	Cover WH 3,5x5
904 4	<b>4812 462 79659</b>	Threaded cap
910 1	<b>4812 502 38152</b>	Screw 4,8x19
910 2	<b>4812 502 18363</b>	Screw 4,0x12-H
910 3	<b>4812 502 18389</b>	Screw 5x20 T20
910 4	<b>4812 502 18385</b>	Screw M3,5x8-T15M
910 5	<b>4812 502 18393</b>	Screw 3,5x9-1 Tx15
910 7	<b>4812 502 18397</b>	Screw INOX A2 M 5X12
910 8	<b>4812 502 18527</b>	Screw 4x15 T20
910 9	<b>4812 502 18446</b>	Screw 3,5x16
964 0	<b>4812 466 68536</b>	Gasket housing ri/le
964 1	<b>4812 466 68469</b>	Gasket housing upper
993 0	<b>4819 530 29028</b>	Bow

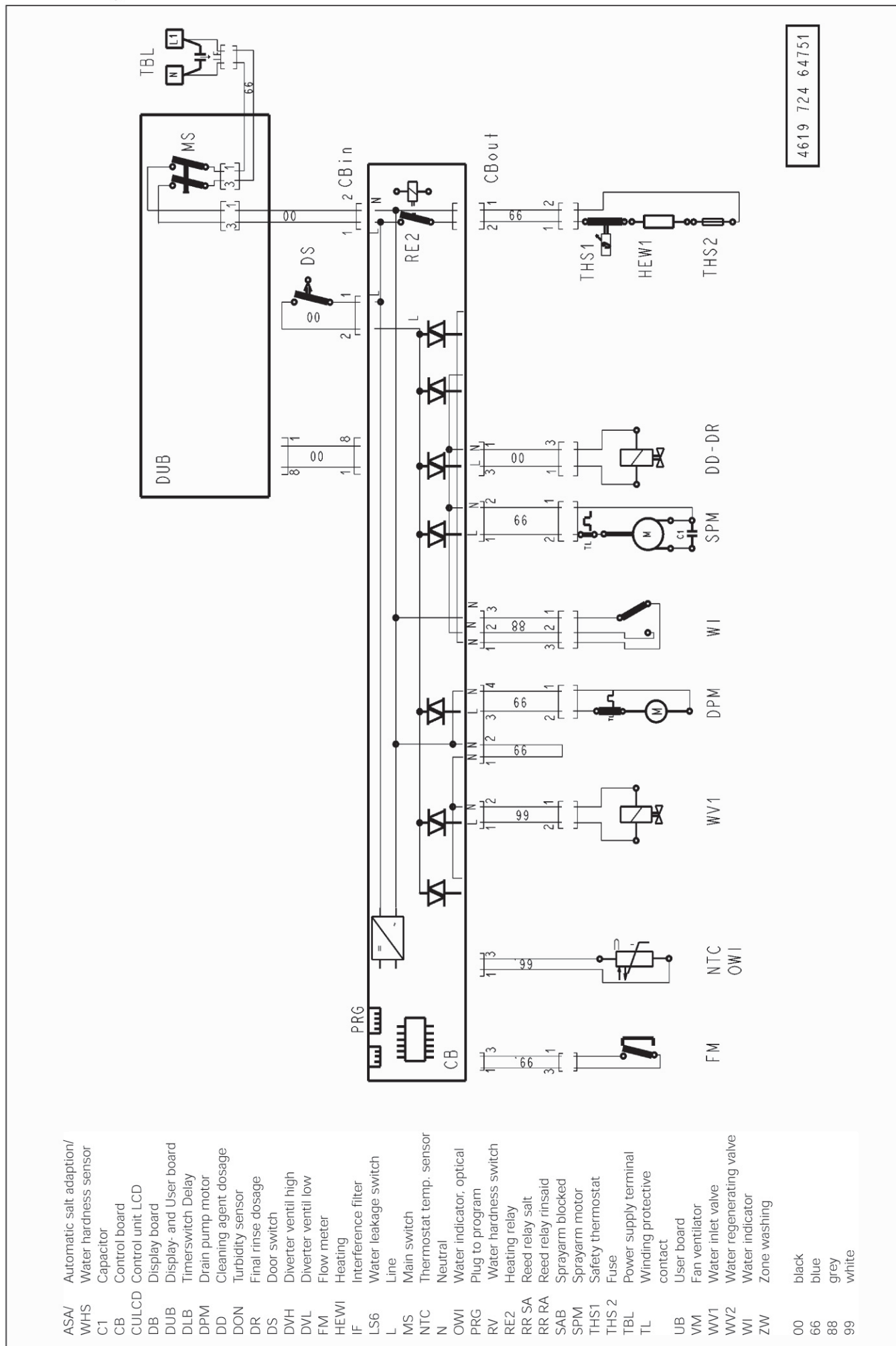
### Exploded view



### Exploded view



### Circuit diagram





## Program diagram

Program Table		PS1																																										PS2																																										PS3																																										PS4																																									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42																																																																																																																														
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Express Program 30 °C	P3a																																																																																																																																																																								
Glasses program 40 °C	P2a																																																																																																																																																																								
Prewash program cold	P1a																																																																																																																																																																								
Contacts	Water inlet valve    WV1  Regenerating valve 2    WV2  Drain pump    DPM  Heating relay    RE2  Spray pump    SPM  Dosage detergent + rinse aid DD-DR	t3 + 30 s																																																																																																																																																																							
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f : water fill if (d) water was drained out  
d : drain out depends on soil level  
h : heating up to 40°C till 70°C depends on soil level  
r : rinsing time 0 min. till 12 min. depends on soil level  
i : 2nd intermediate rinse depends on soil level

## Contacts

Water inlet valve WV1

Regenerating valve 2 WV2

Drain pump DPM

Heating relay RE2

Spray pump SPM

Dosage detergent + rinse aid DD-DR

Ventilation drive (optional) VM

Function of the machine

13 draining time up to

12 heating up to temp.

FM L amount of water

contact or triac closed

no program function

Function diagram  
Point permanent wash(A03: 4619 724 44201/03 )  
17.04.02

4619 724 44201-1

## Text/Legend

### **Test procedure for SERVICE-TEST-PROGRAM Point dishwashers appliances with and without 7 Segment Display**

Switch on the appliance. If there is no failure indicated, then:

1. Start the passive test program.  
If there is a defective component indicated, open the plinth and take out the control board (CB).
2. Check the component.  
Unplug the indicated component from the control board (CB) and check it by using an Ohmmeter  
If the resistance is not correct, check the cables to the component and check the component itself.
3. Visibly check the control board (CB).
4. At the end of the repair start the appliance and delete the failure. After this, start the passive and active test program again to see that the failure is solved.

More details: see following pages.

### **Attention:**

**Danger** for short circuit. Short circuits on components can damage the control board (CB).

If electronic boards are wet, do not switch the appliance on.

To check the appliance, plug in the appliance.

Failures, which occurred during the program will be stored and indicated by flashing the start LED.

The failure will be indicated and can be related to the failure table.

To erase the failures, you must push the start button longer than 1,5 seconds.

The failures

F1	NTC break
F2	water leakage
F9	continuous water inlet

are checked and indicated immediately after start of the program.

Therefore these failures have to be solved before starting the active test program.

When these failures are not solved, the active test program does not run.

The electrical components get their voltage via triac from the control board (CB). To test the voltage the voltmeter must be connected in parallel to the component (the component must be connected). If the component is disconnected, then the output voltage from the control board (CB) is reduced.

**After starting a program this program is locked. That means neither by unplugging/switching off the appliance nor by setting to another program, the first set program cannot be changed. Changing of the program is only possible by pushing the start button again for longer than 1,5 sec..**

**Attention:** New service control boards start at first with the service test program. This test program is without back rinsing. **Dangerous for overfilling the appliance, in case the appliance is not empty.** By running the test program or another program a second time, the back rinsing will be carried out as usual.

4619 724 43901-1

**Text/Legend****Handling of failures**

- F0 Sensor failure (only when a dirt sensor is installed )  
Will not be indicate to the customer. The programs will finish even if there is a failure. The Failure is indicated only in the active test program after 10 – 30 second's. The active test program will finish as well, even if there is a failure.  
If the failure in a sensor program appears, the machine will always choose the highest consumption (best cleaning result).  
- None or wrong output from the sensor  
- Unlogical or unreal measurement results  
Reason:  
- Defective electronic of the sensor  
- Optoelectronic parts in the sensor defect  
- The sensor is very dirty  
- Connection between sensor and control board (CB) interrupted  
Attention: The failure code will not store.
- F1. NTC break  
Temperature out of the normal value (-3°C till +85°C)  
- Temperature inside higher than +85°C  
- NTC defective  
- Dishwasher is frozen, less than -3°C  
If the temperature is less than -3°C, fill the appliance with a cup of warm water to warm it up before you start it..
- F2. Water Leakage  
- Water is in the drip tray  
Floater (LS6) switches off the WV1 and the electronic switches on the DPM until WI reports that it is empty.
- F3. Heating System Defective  
Indicated after app. 25 minutes (1. check after 5 min., after that follow 2 more checks, before the failure is indicate)  
- Heats too slowly (less than 1,5 °C in 10 min.)  
- Heating (HEW) defective  
- Relays (RE2) on control board (CB) is defective  
- NTC - resistance fluctuation
- F4. Draining Failure  
Drain pump starts and after 4 min. the WI detects that it is "not empty"  
- Drain pump (DPM) defective  
- Siphon closed  
- Control board (CB) defective  
- OWI/WI defective.

## Text/Legend

- F6. Water Tap Closed  
Water valve (WV1) is switched on but flow meter (FM) sends no impulses (less than 10 imp. in 10 sec.) and the water indicator (WI) is off (empty)  
- Water tap closed  
- Water inlet hose blocked  
- Water inlet valve (WV1) defective  
- Flow meter (FM) defective (leads to FM failure)
- F7. Flow Meter Failure  
Water inlet valve (WV1) is switched on and the water indicator (WI) is on (full).  
- Flow meter (FM) sends too few impulses (less than 10 imp. in 10 sec.)  
- Water tap closed during water inlet  
- Water inlet hose blocked  
- Water inlet valve (WV1) defective  
- Flow meter (FM) defective
- F8. Water Level Failure.  
Failures are supervised over the whole program.  
*Mechanical water indicator WI:* Spray pump works, the WI switches more than 20 times in 2 minutes back.  
*Optical water indicator OWI:* Always after the OWI-Signal is missing, the electrical components are turned off for 5 sec. If after the 5 sec. the OWI-Signal is still not present then, it notes a Failure F8. If, however, after the 5 sec. the OWI-Signal is present, then the water-level is filled to 6 Ltr. and the electrical components are again turned on. After the OWI signal is missing for a second time note an F8 Failure.  
- WI defect? Should switch on after approx. 1 Ltr  
- Sieve blocked  
- Water strongly foams  
- Pot has turned off and is filled with spray water  
- No stable spray pump (SPM) working
- F9. Continuous Water Inlet  
Water inlet valve (WV1) is switched off, water indicator (WI) on, flow meter (FM) sends impulses (more than 10 imp. in 10 sec.)  
- Water inlet valve (WV1) mechanically not closed  
- Triac (CB) permanently switched on. (short circuit)  
Reaction: interval 30 sec. drain pump on / 20 sec. drain pump off in interval

**The following failures will only be indicated, when the relevant component is installed.**



**Text/Legend****FA. OWI (Optical Water Indicator) – Failure**

If the electronics signals of the Flow meter for the 3,4 Ltr. of water has been received on permanent wash system and 2,5 Ltr on alternating wash system and the OWI signal "Water in the sump" is missing then take note.

- Lens will be cleaned: Water inlet off for 10 Sec and SPM on for 10 Sec.

- If after that there is still no signal "Water in sump", then the appliance goes into failure mode FA.

**FB. MDV (Motor Diverter) – Failure**

Failure condition:

Start water inlet. After 15 sec. switches the WI. After that, when not within 120 sec. comes a signal from the MDV to the control board, lower or upper spray arm is functioning, then the FB will indicate.

Check:

- Do the upper and lower spray arms alternate turns in approx. 30-40 sec.? If only one turns then there is a failure.

- Is the diverter disc in the sump blocked? Yes, unblock it.

- Does 230V come from the control board (ZW,DVH) to the MDV? No, change control board.

How to check:

Start test program and wait until backrinse is over. After the start of the regular water-inlet must come 230V within 30 sec. for approx. 20 sec. to the MDV.

- Is the winding of the MDV or cable to the MDV interrupted? (ZW,DVH) resistance of the MDV should be approx. 6,3 K $\Omega$

- Is the signal cable between the MDV and control board (SAB,DVL) carrying 5v?

**FC. ASA ( Automatic Salt Adaptation )/ Water hardness sensor Failure  
(only indicates in the active test program)**

Failure condition:

Electronic on the water softener detects high electrical resistance in the resin.

Check:

Cables on the sensors of the water softener interrupted or weak contact? Cables from the control board (ASA) to WHS electronic on the water softener interrupted or weak contact?

For salt, rinse aid, zone wash valve, sieve valve failure see active test program.

## Text/Legend

### Failure Display POINT

Appliances with 1 and 2-digit 7 Segment Display and without 7 Segment Display

Alarm / Failure	Failure code, Indication in test program when a failure occurs	
	Shown with 7 segment display or without 7 segment display	Shown on 2/3 digit 7 segment display
<b>F1 NTC-Failure</b>	START  1 x flash 1s Pause 1 x flash.....	
<b>F2 Water Leakage</b>	START  2 x flashes 1s Pause 2 x flashes.....	
<b>F3 Failure in Heating System</b>	START  3 x flashes 1s Pause 3 x flashes.....	
<b>F4 Draining Failure</b>	START  4 x flashes 1s Pause 4 x flashes.....	
<b>F6 Water Tap closed</b>	START  6 x flashes 1s Pause 6 x flashes.....	
<b>F7 Flow Meter Failure</b>	START  7 x flashes 1s Pause 7 x flashes.....	
<b>F8 Water Level Failure</b>	START  8 x flashes 1s Pause 8 x flashes.....	
<b>F9 Continuous Waterinlet</b>	START  9 x flashes 1s Pause 9 x flashes.....	
<b>F0 Sensor-Failure (Only displayed in act. test program)</b>	START  10 x flashes 1s Pause 10 x flashes.....	
<b>FA OWI-Fehler</b>	START  11 x flashes 1s Pause 11 x flashes.....	
<b>FB MDV-Fehler</b>	START  12 x flashes 1s Pause 12 x flashes.....	
<b>FC ASA-Fehler (Only displayed in act. test program)</b>	START  13 x flashes 1s Pause 13 x flashes.....	



**LED flashing**

- "Rotor blocked (F5)" isn't displayed on the POINT appliance

**Text/Legend**

With the passive test program, you can check all LED's and buttons. If there is no failure the passive test program runs normally.

**Attention:**

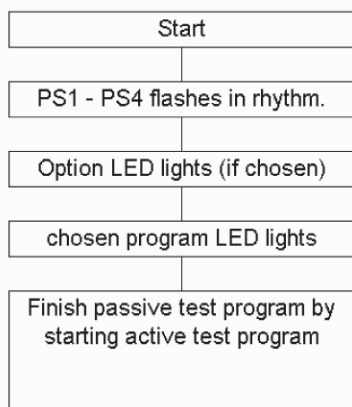
If you can't start the active test program (Start button doesn't flash), normally there is one of the following failures detected: F1, F2 or F9

When these failures are not solved before, the passive and active test program will not run. After solving the failure you must "sign" (erase) the failure.

A present failure will be indicate directly after you switch on the appliance. Then fix the mistake, erase failure and start test program again (see following start procedure).

**Start procedure**Start the passive test program if there is no failure indicated

If there is no failure the passive test program runs normally.



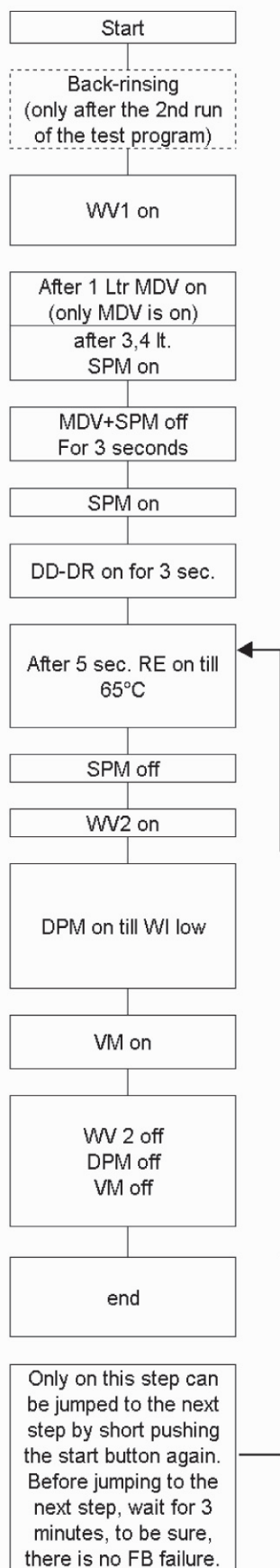
1. Turn OFF appliance
2. Push start button and hold it.
3. Select program position 1.( turn to the right or with WP VBL turn to the left)
4. Finish pushing the start button when the start LED flashes.
5. Test all LEDs by operating the buttons and the program knob. After the check, turn the program knob on to program place 1
6. Start the active test program by pushing the start button again
7. Failure indication.
8. Repair the failure
9. Solve the failure by pushing the start button for longer than 1,5 sec.
10. Start the active test program again, to see, if the failure is really solved

**Active test program starts (see next page)**

PS1	1.LED	prewash		
PS2	2.LED	mainwash		
		intermediate rinse		
		final rinse		
PS3	3.LED	drying (regeneration)		
PS4	4.LED	end	goes off if any button is pushed	goes off if after 30 min prog. Is finished

## Text/Legend

### Active test program



#### Remarks

The active test program runs to the failure position and stops or, if there is no failure, it runs to the end.

To leave the test program push the start button for longer than 1,5 second's.

Not enough salt or rinse aid will not stop the running of the appliance.

**Remark** When switching off the main switch or interrupting the mains, during the test program runs, then the alternating of the spray arms changes in the test program from 30/30 sec. to the rhythm of the main wash 5/3 min.

**Important** Leaving the test program is possible by making a break by the customer (Pushing the start button for more than 1,5 sec.).

After finishing the test program (End LED shines and/or Start LED goes off) then the appliance must be switched off.

If this is not done, then the next main wash will be made with the frequency of the Service Test Program ~30/30 sec. instead of 3/5 min.

When the failure position is reached the failure indication is indicated on the page "Failure Codes"

#### Attention:

If you can't start the active test program (Start button doesn't flash), normally there is one of the following failures detected: F1, F2 or F9

When these failures are not repaired before, the active test program will not run. After solving the failure you must "sign" (erase) the failure.