

# Service Manual

Dishwasher  
integratable

ADG 955 WHM

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	Family	Global A5

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**Technical data**

**Dimension**

Height	82.0-87.0	cm
Width	59.5	cm
Depth	57.5	cm
Weight	52.7	kg

**Wooden door (for 22 mm thickness)**

Thickness min..	16	mm
Thickness max.	25	mm
Width min.	592	mm
Width max.	595	mm
Height min.	515	mm
Height max.	600	mm
Weight max.	5.5	kg
Max. stick out over lower edge of appliance door	92	mm
Height of plinth min.	93	mm

**Electronic boards**

Service boards	see spare part list
Serial boards	
UB	4619 720 79741
DB	4619 720 80771
CB	4619 720,80661

**Succession of programs**

Programs	see program diagram
Succession	1-4b-5b-6b-7

**Alarms**

Refill salt

**Options**

Zone washing

**Program information**

Start indicator  
 Pre wash  
 Main wash  
 Drying  
 End

**Volume (normal program)**

Water	Volume	Level
Regeneration	0.3 l	15 mm
Back rinse 3x	1.0 l	68 mm
Prewash	4.8 l	122 mm
Prewash/Zone washing	4.0 l	120 mm
Main wash	4.5 l	121 mm
Main wash/Zone washing	3.5 l	117 mm
Intermediate rinse 1	4.0 l	120 mm
Intermediate rinse 1/ Zone washing	3.5 l	117 mm
Intermediate rinse 2	4.0 l	120 mm
Intermediate rinse 2/ Zone washing	3.5 l	117 mm
Clear rinse	4.0 l	120 mm
Clear rinse/Zone washing	3.5 l	117 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 height of the water level.

**Detergent max.**

Main-wash	45	cm <sup>3</sup>
Rinse aid	125	cm <sup>3</sup>
6 Dosage steps	1 - 6	ml

**Water softener**

Saltcontainer	2	kg
Resin container	900	cm <sup>3</sup>
Regeneration dosage	300	cm <sup>3</sup>

**Water pressure**

Inlet pressure	0.3-10	bar
Spray pump pressure	0.4	bar

**Rotations**

Spray pump motor	2800	RPM
Drain pump motor	3000	RPM
Spray arm lower	20 - 40	RPM
Spray arm upper	25 - 35	RPM
Ceiling rotor	45 - 65	RPM

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## Technical data

### Flow rates / Inlet volume

Flow meter (at 0.3 bar = quantity 1.1 l/min)	208	Imp/l
Spray pump	~ 70	l/min
Drain pump	16	l/min
Pump height max.	1.1	m
Inlet valve	4.5	l/min
Valve for Zone washing	30	l/min
Spray arm lower	33	l/min
Sprayarm upper	27	l/min
Ceiling rotor	10	l/min

### Electrical data

#### Base data

Voltage	220/230	V
Frequency	50	Hz
Total power	2.0-2.2	kW
Fuse	10	A

#### Motor

#### Spray pump motor

Voltage	220/230	V
Power consumption	160	W
HI	81	$\Omega$
HA	44	$\Omega$
Capacitor	4	$\mu$ F

#### Drain pump motor

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

### Heating

#### 1 Element system

Voltage	220/230	V
Power consumption	1.87/2.04	kW
Resistance	24.5	$\Omega$
Heating speed	~ 2.0	$^{\circ}$ C/min
Temperature on surface	~ 115	$^{\circ}$ C
Safety thermostat self reset	85	$^{\circ}$ C

### Potentiometer

Position 0	0.0	k $\Omega$
Position 1	0.5	k $\Omega$
Position 2	1.0	k $\Omega$
Position 3	1.4	k $\Omega$
Position 4	1.8	k $\Omega$
Position 5	2.3	k $\Omega$
Position 6	2.6	k $\Omega$

### Water valves

#### Single valve at inlet hose

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

#### Regenerating valve

Voltage	220/240	V
Frequency	50/60	Hz
Resistance	3.13	k $\Omega$

#### Valve for zone-washing

Voltage	220-240	V
Frequency	50/60	Hz
Resistance	4	k $\Omega$

#### Coil of dispenser

Voltage	220/240	V
Frequency	50/60	Hz
Resistance	1.5	k $\Omega$

#### Reedcontact

flow meter  
salt control

#### NTC

15 $^{\circ}$ C	75	k $\Omega$
20 $^{\circ}$ C	62	k $\Omega$
30 $^{\circ}$ C	43	k $\Omega$
40 $^{\circ}$ C	28	k $\Omega$
50 $^{\circ}$ C	19	k $\Omega$
60 $^{\circ}$ C	13	k $\Omega$
70 $^{\circ}$ C	9	k $\Omega$
80 $^{\circ}$ C	6	k $\Omega$
85 $^{\circ}$ C	5	k $\Omega$

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**Technical data****Regeneration**

Volume	300	cm <sup>3</sup>
Position 0 after wash cycles water hardness	10 0-5 0-0.9 0-9	°dh mmol/l °Fh
Position 1 after wash cycles water hardness	8 6-10 1-1.8 10-18	°dh mmol/l °Fh
Position 2 after wash cycles water hardness	6 11-15 1.9-2.7 19-27	°dh mmol/l °Fh
Position 3 after wash cycles water hardness	4 16-21 2.8-3.7 28.37	°dh mmol/l °Fh
Position 4 after wash cycles water hardness	3 22-28 3.8-5.0 28-50	°dh mmol/l °Fh
Position 5 after wash cycles water hardness	2 29-35 5.1-6.3 51-63	°dh mmol/l °Fh
Position 6 after wash cycles water hardness	1 36-60 6.4-10.7 64-107	°dh mmol/l °Fh
Salt consumption for regeneration	77	g
Number of cycles with 2 kg salt	26	

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## Spare part list

Model **ADG 955 WHM**  
Service No. **854295510310**  
Version **854295510310**

Pos. No.	12NC Code	Description
003 0	<b>4812 440 19382</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 18369</b>	Foot long
011 1	<b>4812 528 98004</b>	Shaft flexible
011 2	<b>4812 528 78032</b>	Slide disc f.foot
011 3	<b>4812 535 98054</b>	Gear
011 4	<b>4812 528 98001</b>	Roll f.foot
022 0	<b>4812 440 19398</b>	Side panel left
022 1	<b>4812 440 19397</b>	Side panel right
022 2	<b>4812 440 18953</b>	Spacer
024 0	<b>4812 440 19401</b>	Panel, rear
040 1	<b>4812 417 18774</b>	Hinge left
040 2	<b>4812 417 18773</b>	Hinge right
044 0	<b>4812 492 38362</b>	Spring f.door
044 1	<b>4812 492 38364</b>	Spring f.cap
047 0	<b>4812 404 48591</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 88884</b>	Plinth
103 0	<b>4812 440 18986</b>	Door outer
105 0	<b>4812 404 48611</b>	Fastener door
105 2	<b>4812 505 68004</b>	Clip
110 0	<b>4812 440 19455</b>	Door frame
120 1	<b>4812 440 18955</b>	Batten
130 0	<b>4812 417 58361</b>	Tilt lock
131 0	<b>4812 401 18416</b>	Hook lock
175 3	<b>4812 466 68532</b>	Batten
191 0	<b>4812 466 68534</b>	Gasket door
192 0	<b>4812 466 68467</b>	Gasket, door lower
200 0	<b>4812 418 18207</b>	Container cpl.
241 0	<b>4812 458 18912</b>	Basket upper straight
241 1	<b>4812 458 18324</b>	Holder cups right white
241 3	<b>4812 528 88068</b>	Wheel,basket upper (set)
241 8	<b>4812 466 68553</b>	Spacer cap set
242 0	<b>4812 458 18923</b>	Basket lower cpl.
242 1	<b>4812 528 88069</b>	Wheel,basket lower
242 2	<b>4812 458 18262</b>	Plate,support f.basket lower
242 3	<b>4812 458 18275</b>	Plate,support f.basket lower
242 4	<b>4812 466 48059</b>	Striker
243 0	<b>4812 458 18272</b>	Basket cutlery
243 4	<b>4812 458 18317</b>	Bracket
261 0	<b>4819 462 38271</b>	Rail telescope, inner
261 1	<b>4819 404 48819</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
265 0	<b>4812 404 48637</b>	Basket adjustm. cpl.
265 2	<b>4812 404 48638</b>	Grip basket adjustment
301 0	<b>4812 453 70039</b>	Control panel WH
303 1	<b>4812 460 38055</b>	Plate,handle WH
305 0	<b>4812 440 19436</b>	Batten WH
305 1	<b>4819 502 18241</b>	Screw synthetic
305 2	<b>4819 505 18191</b>	Nut
305 3	<b>4812 440 19348</b>	Batten adjustable 5mm WH

Pos. No.	12NC Code	Description
305 4	<b>4812 440 19349</b>	Batten adjustable 10mm WH
322 0	<b>4812 453 70038</b>	Insert panel WH
331 0	<b>4812 413 58888</b>	Knob program cpl. WH
331 1	<b>4812 325 88001</b>	Ring knob WH
332 0	<b>4812 410 28564</b>	Push button cap WH
350 0	<b>4812 276 58075</b>	Display board (DB)
400 0	<b>4812 361 58126</b>	Motor + spraypump cpl.
405 0	<b>4812 360 18371</b>	Spray pump
405 1	<b>4819 515 28158</b>	Gasket
420 0	<b>4812 121 18132</b>	Capacitor
421 0	<b>4812 121 18161</b>	Interf.filter
430 0	<b>4812 360 18357</b>	Pump,draining
430 1	<b>4812 466 68506</b>	Shaft seal
450 0	<b>4812 259 28684</b>	Heating element
480 0	<b>4812 321 28386</b>	Cable harness set
480 1	<b>4812 321 28371</b>	Cable
480 2	<b>4812 321 28383</b>	Cable 6poles
480 3	<b>4812 401 18418</b>	Protector f.wiring
490 0	<b>4819 321 18136</b>	Cable,mains 2m
490 1	<b>4812 321 28367</b>	Strain relief
521 0	<b>4812 214 78192</b>	Control board (CB)
531 0	<b>4812 273 18055</b>	Switch waterhardness
531 1	<b>4812 273 18056</b>	Wheel, fingertip
57 3	<b>4812 281 28363</b>	Valve f.zooe-washing
575 0	<b>4812 281 28361</b>	Regen.valve
583 0	<b>4812 271 28355</b>	Switch diaphragm
616 0	<b>4812 281 18047</b>	Contact,reed salt
620 0	<b>4812 218 38065</b>	User board (UB)
623 0	<b>4812 271 38356</b>	Microswitch
633 0	<b>4812 271 38355</b>	Microswitch
680 0	<b>4812 418 68154</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
700 0	<b>4812 530 28804</b>	Hose, inlet aqua stop 4,2m
700 0	<b>4812 530 28848</b>	Hose, inlet aqua stop 2m
700 1	<b>4812 480 48019</b>	Sieve
700 2	<b>4812 520 58002</b>	Gasket set
701 1	<b>4812 310 18153</b>	Yoke clamp set
701 2	<b>4819 401 18423</b>	Holder
710 0	<b>4812 418 68128</b>	Monoblock
710 2	<b>4819 310 38536</b>	Nut threaded ring set
710 3	<b>4819 466 69562</b>	Gasket set
714 0	<b>4812 462 78993</b>	Threaded cap
714 2	<b>4812 440 18963</b>	Cabinet non-return flap
716 0	<b>4812 418 68147</b>	Reg.dosage
716 1	<b>4812 466 68475</b>	Gasket
716 2	<b>4812 462 78994</b>	Cover
721 1	<b>4812 360 68059</b>	Arm,spray lower cpl.
721 2	<b>4812 466 68491</b>	Gasket 25x2,3B
721 3	<b>4812 466 68558</b>	Gasket 30x3,0
721 4	<b>4812 440 19455</b>	Flange
722 0	<b>4812 360 68044</b>	Arm,spray upper

## Spare part list

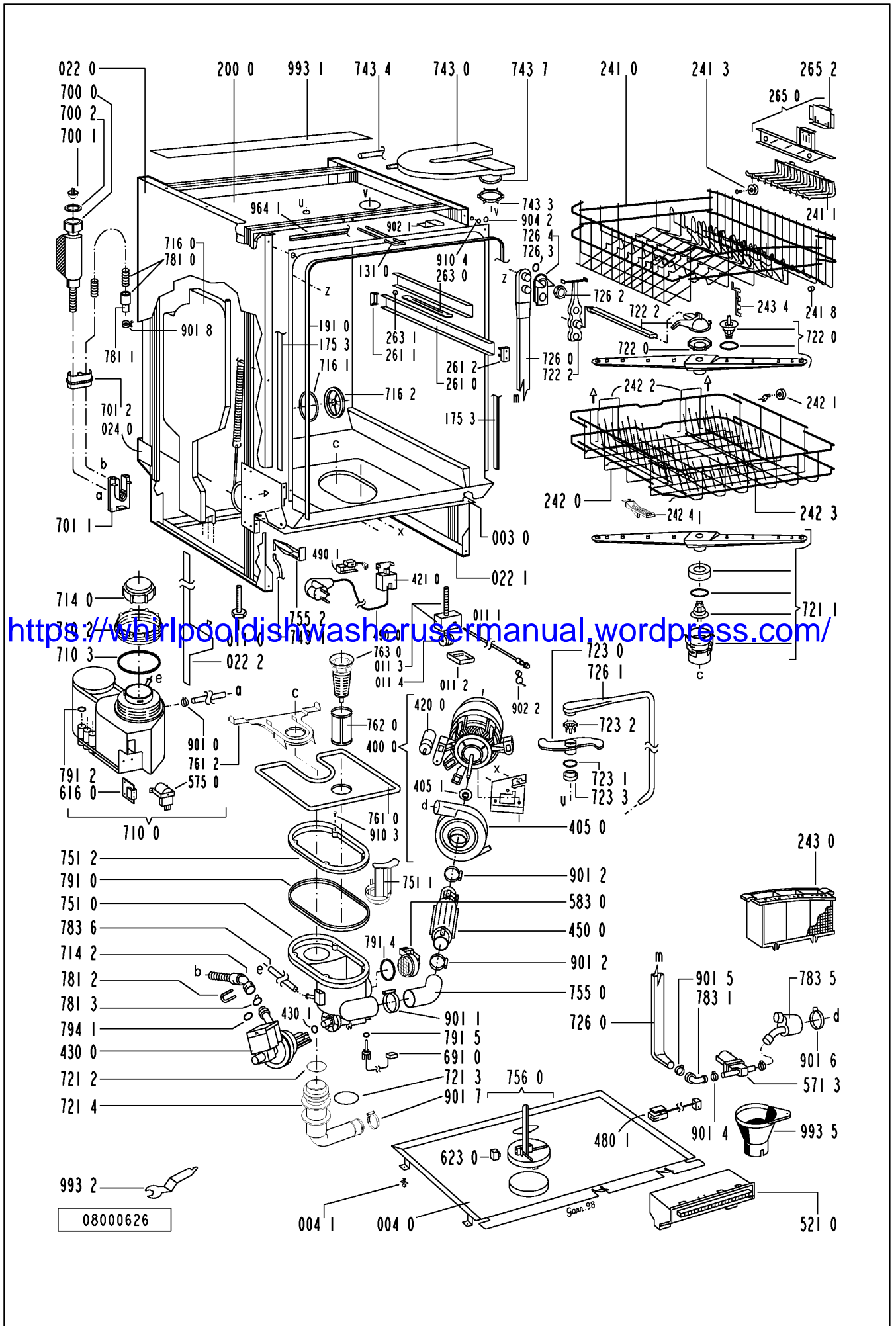
**Model** ADG 955 WHM  
**Service No.** 854295510310  
**Version** 854295510310

Pos. No.	12NC Code	Description
722 2	4812 360 68056	Hub upper straight cpl.
723 0	4812 360 68049	Arm,spray ceiling
723 1	4812 466 68483	Gasket
723 2	4812 404 48597	Clip,fix sprayarm
723 3	4812 505 18362	Screwed joint
726 0	4812 530 28786	Tube
726 1	4812 530 28787	Tube
726 2	4812 505 18358	Nut
726 3	4812 466 68512	Gasket
726 4	4812 462 79633	Centering
743 0	4812 511 48171	Capacitor
743 1	4812 530 28102	Hose, inlet
743 3	4812 505 18364	Nut
743 4	4812 530 28807	Hose 9x1,5x270+10
743 7	4812 466 68514	Gasket
751 0	4812 418 18205	Water collector
751 1	4812 418 18203	Water guide
751 2	4812 440 19454	Fastener frame
755 0	4812 530 28849	Bend
755 2	4812 530 48148	Tray,leak
756 0	4812 360 58099	Floater
761 0	4812 480 58082	Sieve fine
761 2	4812 418 18204	Gover sieve
762 0	4812 480 58084	Micr. of fine
763 0	4812 480 58083	Sieve coarse
781 0	4812 530 28737	Hose,draining
781 1	4819 530 28286	Sleeve hose
781 2	4819 492 68405	Clip f.non-return valve
781 3	4812 281 28364	Flap non-return
783 1	4812 530 28806	Hose connection
783 5	4812 530 28851	Distributor
783 6	4812 530 28796	Hose 10x3x180+10
791 0	4812 532 68067	Gasket
791 2	4812 530 58093	Gasket
791 4	4812 466 68503	Gasket
791 5	4812 466 68504	Gasket
794 1	4819 530 58032	Gasket 20x2,5
901 0	4812 401 18191	Strap 017,8
901 1	4812 401 18424	Strap 050,0
901 2	4812 401 18422	Strap W1-1 AL 32-50
901 4	4812 401 18405	Strap 025,6-708Z
901 5	4812 401 48573	Strap 028,6
901 6	4812 401 48574	Strap 038,1
901 7	4812 401 18427	Strap 031,6
901 8	4812 401 18075	Strap 20-32/9 mm
902 1	4812 466 78361	Fastener f.buildt-in models
902 2	4812 404 78241	Holder
904 2	4812 462 79635	Cover WH 3,5x5
910 1	4812 502 18394	Screw 3,5x14-H
910 2	4812 502 18363	Screw 4,0x12-H
910 3	4812 502 18389	Screw NIRO A2
910 4	4812 502 18386	Screw 3,5x8-TORX T15
910 5	4812 502 18393	Screw 3,5x9-1 Tx15
910 7	4812 502 38132	Screw DIN 965
964 1	4812 466 68511	Gasket housing upper

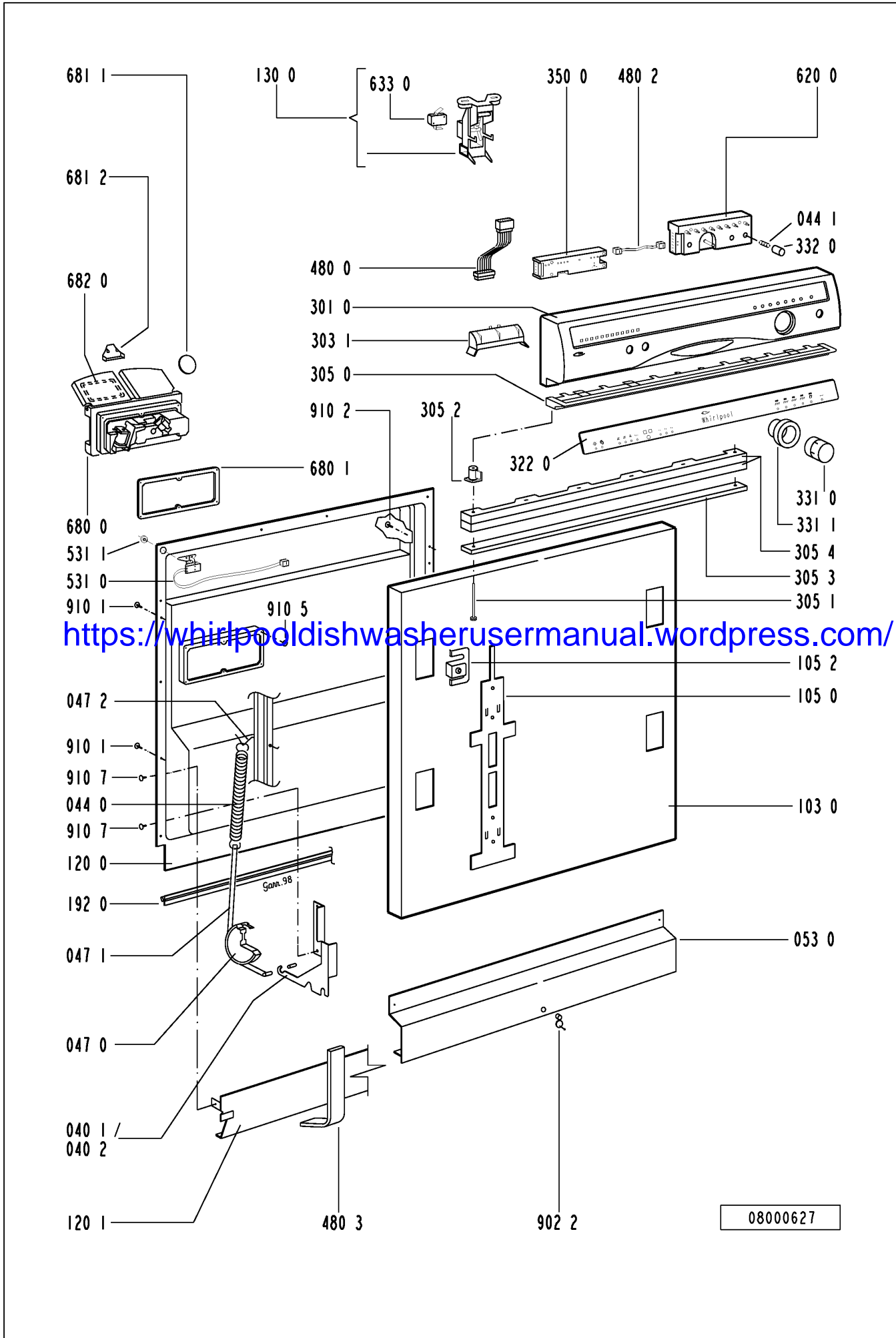
Pos. No.	12NC Code	Description
993 1	4812 466 78018	Foil protection
993 2	4812 404 48609	Socket wrenc foot
993 5	4822 532 80216	Funnel salt

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**Exploded view**



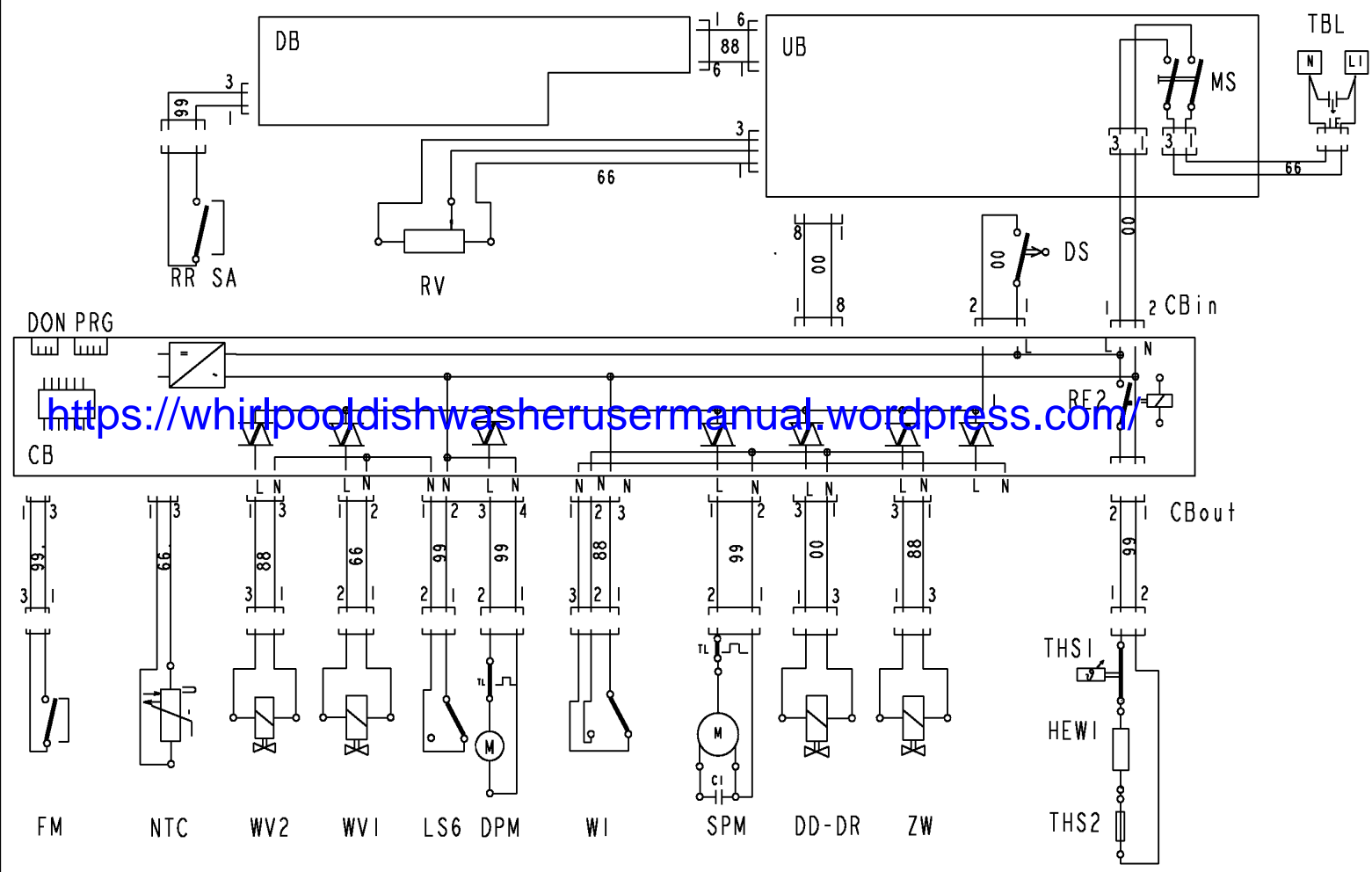
**Exploded view**





**Circuit diagram**

- C1 Capacitor
- CB Control board
- DB Display board
- DPM Drain pump motor
- DD Cleaning agent dosage
- DON Additional sensor
- DR Final rinse dosage
- DS Door switch
- FM Flow meter
- HEWI Heating
- IF Interference filter
- LS6 Water leakage switch
- L Line
- MS Main switch
- NTC Thermostat temp. sensor
- N Neutral
- PRG Plug to program
- RV Water hardness switch
- RE2 Heating relay
- RR SA Reed relay salt
- RR RA Reed relay rinsaid
- SAB Sprayarm blocked
- SPM Sprayarm motor
- THS Safety thermostat
- THS 2 Fuse
- TBL Power supply terminal
- TL Winding protective contact
- UB User board
- VM Fan ventilator
- WV1 Water inlet valve
- WV2 Water regenerating valve
- WI Water indicator
- ZW Zone washing
  
- 00 black
- 66 blue
- 88 grey
- 99 white



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4619 720 86481



## Text/Legend

**Test procedure for SERVICE-TEST-PROGRAM DOLPHIN dishwashers (Global)**

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 Ohm-measure equipment.  
If the ohms are not correct, check the cables to the component and check the component itself.
3. Check the control board (CB).
4. Only if there is no reaction when pushing a push button or turning the rotary switch, then test the control board (CB) and the user board (UB) with the test points.
5. At the end of the repair start the appliance and delete the stored failure. After this, start the test program again to see that the failure is solved.

More details: s. following pages.

**Attention:**

First unplug the appliance, then set the connection clamps of the volt measurement on the test points.

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.

For check the appliance, plug in the appliance.

Failures, which occurred during the program will store and indicate by flashing start LED.

Then start the test program without erase the failure before. The failure will indicate.

To erase the failures, you must push the start button longer than 3 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). For testing the volume of voltage the volt meter must be parallel to the component (the component must be connected). If the component is disconnected, then the outcomed voltage from the control board (CB) is reduced.

For appliances with no program indicator or 7-segment-display you can use for testing a display board (DB) in addition. More details : see chapter active test program.

**After starting a program this program is locked. That means neither by unplugging/switching of the appliance nor by setting an other program, the first setted program can be changed.**

**Changing of the program is only possible by pushing the start button again for longer than 3 sec.. The programs end with draining out. After that start again.**

**On appliances with separate On-Off button the last used program is stored. That means if the customer wants to use the same program again he has only to press the On-button and the Start-button.**

**Attention: On new service control boards the first service test program is without back rinsing. Dangerous for overfilling the appliance, in case the appliance is not empty. By running the test program a second time the back rinsing will be carried out as usual.**

4619 720 87721-1

## Text/Legend

### **Handling of failures**

#### F0 Sensor failure

Will not indicate for the customer. The programs will finish even 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 there is a failure.

If the failure in a sensor program appear, 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
- Case of 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

Fill in the appliance a cup of warm water to warm it up before you start it, if the temperature is less than -3°C.

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#### F2. water leakage

- water is in the drip tray

float (LS6) switches off the WW1 and the electronic switches on the DPM till WI reports empty

#### F3. heating system defective

Indicated after app. 11 minutes (1. check after 5 min., after that follow 2 more checks, before the failure is indicate)

- too less heating speed (lower 1,5 °C in 3 min.)
- heating (HEW) defective
- relays (RE2) on control board (CB) is defective
- NTC - resistance fluctuation
- water indicator (WI) defective (is switched off) - spray pump (SPM) is not working

#### F4. draining failure

drain pump starts and after 4 min. the WI detects not empty

- drain pump (DPM) defective
- siphon closed
- control board (CB) defective
- water indicator (WI) defective (is switched on)

#### F5. spray arm blocked (leads not to stop the appliance)

SAB sensor sends less than 10 impulses/min.

- spray arm blocked or not fixed well
- spray pump (SPM) does not work well
- SAB sensor defective

## Text/Legend

F6. water tap closed (only indicated after start of the active test program)  
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 to less impulses (less than 10 imp. in 10 sec.)
- water tap closed
- water inlet hose blocked
- water inlet valve (WV1) defective
- flow meter (FM) defective

F8. water level failure  
failure monitored during spray pump is on and the water indicator switches back more than 20 times in 2 min.

- water indicator defective (should switch on after app. 1 litre)
- sieve blocked
- water strongly foams
- pot has turned off and is filled with spray water
- no stable spray pump (SPM) working

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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. draining / 20 sec. tracing

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

**Text/Legend**

**Appliances FAILURE AND ALARM DISPLAYING CODES**

Alarm / Failure	Indication for customer		Indication whitin test program after a failure has occurred	
<b>Sensor-break F 0</b>	○ ○ ○ ○ PS1 PS2 PS3 PS4 START ○		● ● ○ ○ PS1 PS2 PS3 PS4 START ○ (only indicated after start of the active t.p.)	
<b>NTC-break F 1</b>	○ ○ ○ ○ PS1 PS2 PS3 PS4 START ●		● ○ ○ ○ PS1 PS2 PS3 PS4 START ○	
<b>Water Leakage F 2</b>	○ ○ ○ ○ PS1 PS2 PS3 PS4 START ●		○ ● ○ ○ PS1 PS2 PS3 PS4 START ○	
<b>Heating System Failure F 3</b>	○ ○ ○ ○ PS1 PS2 PS3 PS4 START ●		○ ○ ● ○ PS1 PS2 PS3 PS4 START ○	
<b>Draining Failure F 4</b>	○ ○ ○ ○ PS1 PS2 PS3 PS4 START ●		○ ○ ○ ● PS1 PS2 PS3 PS4 START ○	
<b>Spray Arm Blocked F 5</b>	○ ○ ○ ○ PS1 PS2 PS3 PS4 START ○		● ○ ○ ● PS1 PS2 PS3 PS4 START ○	
<b>Water Tap Closed F 6</b>	○ ○ ○ ○ PS1 PS2 PS3 PS4 START ●		○ ● ○ ● PS1 PS2 PS3 PS4 START ○ (only indicated after start of the active t.p. Start LED flashed in passive t.p.)	
<b>Flow Meter Failure F 7</b>	○ ○ ○ ○ PS1 PS2 PS3 PS4 START ●		○ ○ ● ● PS1 PS2 PS3 PS4 START ○	
<b>Water Level Failure F 8</b>	○ ○ ○ ○ PS1 PS2 PS3 PS4 START ●		○ ● ● ○ PS1 PS2 PS3 PS4 START ○	
<b>Water Continuously On F 9</b>	○ ○ ○ ○ PS1 PS2 PS3 PS4 START ●		● ○ ● ○ PS1 PS2 PS3 PS4 START ○	

● Led Flashing PS 1 till PS 4 : Program sequence LED  
 ○ Led OFF

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**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 normal.

**Attention:**

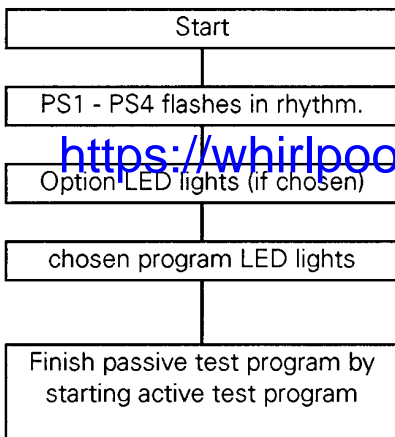
If you can't start the active test program (Start button don't flash), normally there is one of the following failures detected: F1, F2 or F9

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

**Start procedure**

Passive test program

The passive test program shows the stored failure. If there is no failure the passive test program runs normal.



1. Switch off the appliance
2. Push start button and hold it.
3. Choose position 1 of the turning knob turning right side (program 1).
4. Finish pushing the start button when the start LED flashes
5. Failure indication.
6. Repair the failure
7. Solve the failure by pushing the start button for longer than 3 sec.
8. Start the passive test program again. If there is no failure detected, test all LED's and after that choose program 1.
9. Finish the passive test program by pushing the start button for shorter than 3 sec.

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

Program sequence LED

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 after 30 min progr. is finished





**Text/Legend**

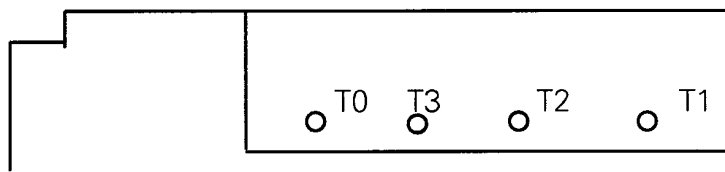
**Testpoints on the control board (CB)**

With these test points the function of the buttons and the rotary switch can be checked.  
The test points are in the service window on the control board.  
For the test fine clamps, cables and volt meter with high input resistance are necessary.

**Before setting the clamps on the test points, switch off the appliance.**

Testpoints: T0: common line T2: analogue value  
T1: analogue value T3: digital signal

Service window



**Check: T0 to T1**

Communication between control board (CB) and display board (DB) measured over user board (UB)

pushed button	voltage	from	to
no button pushed	ca. - 5.24 V DC	Control board (CB)	Display board (DB)
ZW (1 or 2 LED)	ca. - 3.43 V DC	Display board (DB)	Control board (CB)
Delay	ca. - 2.88 V DC	Display board (DB)	Control board (CB)
ZW + Delay start	ca. - 2.88 V DC	Display board (DB)	Control board (CB)

**Check: T0 to T2**

Communication between Control board (CB), User board (UB)

	voltage	from	to
Programplace 1	ca. - 1.32 V DC	User board (UB)	Control board (CB)
Programplace 2	ca. - 1.75 V DC	User board (UB)	Control board (CB)
Programplace 3	ca. - 2.20 V DC	User board (UB)	Control board (CB)
Programplace 4	ca. - 2.90 V DC	User board (UB)	Control board (CB)
Programplace 5	ca. - 3.36 V DC	User board (UB)	Control board (CB)
Programplace 6	ca. - 3.80 V DC	User board (UB)	Control board (CB)
Programplace 7	ca. - 4.27 V DC	User board (UB)	Control board (CB)
start button	ca. - 0.00 V DC	User board (UB)	Control board (CB)

**Check: T0 to T3:**

Communication between Control board (CB) and User board (UB ). Check of the 'Start' function  
Select any program.

before start ( start LED off )	- 5.24 V DC
after start ( start LED on )	- 3.87 V DC

How exact the data are, depends on the measure equipment.