

BAUKNECHT

Service-Information**Geschirrspüler****GSF 1688/1 WS**

8548 400 01810

Letzte Änderung: 07.06.2008

Anlagedatum: 07.06.2008

Ersatzteilliste	2
Technische Daten	5
Explosionszeichnung	11
Schließschema	13
Text /Legende	14

Die vorliegenden Serviceunterlagen sind ausschließlich für technisch qualifizierte Fachkräfte bestimmt, welche mit den entsprechenden einschlägigen Sicherheitsvorschriften vertraut sind.

Änderungen vorbehalten

Ersatzteilliste

Pos-Nr.	12NC	Beschreibung
003 0	4812 440 19594	Traverse Quer
004 0	4812 440 18952	Bodenwanne
004 1	4812 401 18402	Halter Bodenwanne
011 0	4812 505 18357	Fuss kurz
022 0	4812 440 10755	Seitenwand links WS-GW
022 1	4812 440 10754	Seitenwand rechts WS-GW
024 0	4812 440 10417	Rueckwand Blende
030 0	4812 310 18916	Arbeitsplatte
034 0	4812 404 78237	Distanzstueck f.Arbeitspl.
034 1	4812 404 78242	Befestigung f.Arbeitspl.ws
040 1	4812 417 18774	Scharnier links
040 2	4812 417 18773	Scharnier rechts
040 3	4812 417 19172	Schutz white / FS WS-GW
040 3	4812 417 19173	Schutz f.Tuer links
044 0	4812 492 38358	Feder f.Tuer
047 0	4812 404 48746	Bremse Tuer
047 1	4812 401 18397	Bremsband an Tuerschar
047 2	4812 404 68023	Haken
050 0	4812 440 89032	Sockelblende m.Loeh WS-GW
053 4	4812 440 89035	Sockelblende rund WS-GW (BK-VBL)
065 0	4812 466 48051	Isolation ohne Ausschnitt
103 0	4812 440 10758	Tuer aussen lack. WS-GW
120 0	4812 440 19456	Innentuer ged. KDTL
120 1	4812 440 18969	Leiste
130 0	4812 417 58373	Kippschloss kpl. sw
131 0	4812 401 18416	Haken Verschluss
191 0	4812 466 68564	Dichtung Tuer, Rahmen
191 3	4812 466 68533	Dichtung Sockel
192 0	4812 466 68467	Tuerdichtung unten
241 0	4812 458 19263	Korb O-ger/vstb.silber VBL
241 1	4812 458 19264	Halter Tassen rechts VBL10809
241 3	4812 528 88113	Korbrolle O-K.verstb.V+EBL10809/4St
241 4	4812 458 19274	Halter f.Geschirr Multiflex10809
241 5	4812 535 78085	Lager f.Multiflex 10809
241 6	4812 310 19011	Halter Glaeser links VBL10809
241 7	4812 404 48945	Buegel f.Multiflex silv.gr.
241 8	4812 466 68659	Distanzstueck O-Korb grau
242 0	4812 310 28234	Korb unten Kit VBL2F/2F/AL-nep
242 1	4812 528 88112	Korbrolle U-Korb VBL/EBL10809 8Stck
242 4	4812 466 48102	Anschlag gr.10809
242 6	4812 458 19299	Tellereinsatz Stachel nept li
242 7	4812 458 19298	Tellereinsatz Stachel nept re
243 0	4812 458 19265	Korb Besteck gr.10809
243 5	4812 310 38908	Besteckkorb Kit
243 6	4812 458 19247	Gitter f.Besteck saph EBL
261 0	4812 462 79831	Schiene Teleskop, innen
261 1	4812 462 79768	Kappe Teleskopsch. hinten10809
261 2	4812 462 79902	Kappe
263 0	4819 520 18013	Kugelkaefig KDTL
263 1	4812 310 48026	Service-Satz Kugeln PI

Pos-Nr.	12NC	Beschreibung
265 0	4812 404 49712	Korbverstellung VBL kpl.gr.10809
265 2	4812 404 48934	Griff Korbverst. VBLgr.10809
301 0	4812 453 72708	Schalterleiste GSF 1688/1 WS
303 1	4812 460 38156	Griffplatte WS EBL
331 0	4812 413 59171	Knopf WS-GW (IC)Pol.
332 0	4812 410 29237	Taste Start WS
332 1	4812 410 29238	Taste Option WS
332 3	4812 410 29166	Taste E/A WS
350 1	4812 381 28076	Fenster
350 2	4812 381 28071	Lichttraeger
350 3	4812 381 28072	Lichttraeger
400 0	4812 361 58334	Motor +UP,50Hz,per.HP-
405 1	4819 515 28158	Dichtung
420 0	4812 121 18132	Kondensator Betrieb 4mF
421 0	4812 121 18158	Entstoerfilter
430 0	4812 360 18508	Laugenpumpe kpl.230-24
430 1	4812 466 68689	Dichtung LP
442 0	4812 361 18196	Geblaese kpl.
450 0	4812 259 28684	Heizelement 2100W
480 0	4812 321 28425	Kabelbaum
480 1	4812 321 28426	Kabel
480 3	4812 401 18418	Schutz f.Verdrahtung
490 0	4819 321 18136	Netzkabel 2m SA
490 1	4812 321 28367	Zugentlastung
521 0	4812 218 38257	Eingabe Electr. (UCB)
521 8	4812 530 78066	Achse Programmwahl
571 0	4812 281 28379	Ventil Zulauf
575 0	4812 281 28361	Regeneriervent. KDTL
583 0	4812 271 28407	Schalter Membran
616 0	4812 281 18047	Reedkontakt ELSA KDTL
616 1	4812 271 58161	Reedkontakt KSMA
620 0	4812 310 28235	Eingabe Electr.
621 0	4819 410 29004	Schalter Ein / Aus
633 0	4812 271 38355	Mikroschalter Tuer KDT
680 0	4812 418 68326	Kombidosierung m.KSM saph/nept.blue
680 1	4812 466 68495	Dichtung Kombidosierung
681 1	4812 466 68497	Dichtung Deckel KSM SK 5244.04.04
681 2	4812 440 18975	Klappe Kombidosierung
682 0	4812 466 68496	Dichtung Deckel RMG
691 0	4812 282 68012	Fuehler NTC
701 0	4819 530 28926	Zulaufschlauch 2,5 m (Eltek)
701 1	4812 310 18302	Schlauchsich.
701 2	4822 480 50159	Sieb Zulauf
710 0	4812 418 68128	Monoblock
710 2	4812 310 38896	Gewinding gr.10809
710 3	4819 466 69562	Dichtung KDTL
714 0	4812 462 79903	Verschlusskappe o.Anzeige gr.10809
716 0	4812 418 68147	Regenerierdos. m.WE
716 1	4812 466 68475	Dichtung Regenerierdos.
716 2	4812 462 78994	Abdeckung Regenerierdos. gr.10809

Pos-Nr.	12NC	Beschreibung
717 1	4812 462 79793	Stopfen f.Diverter
721 1	4812 360 68689	Sprueharm
722 0	4812 360 68687	Sprueharm
722 2	4812 360 68693	Sprueharm
723 0	4812 360 68691	Deckendusche
726 1	4812 530 29331	Rohr
726 2	4812 505 18208	Mutter oben
743 0	4812 530 48134	Luftfuehrung
743 1	4812 530 28102	Zulaufschlauch 9x1,5x250
743 2	4812 440 19526	Luftfuehrung unten
743 3	4812 462 79857	Abdeckung Luftfg.+Kondens. 10809
743 4	4812 281 38001	Ventilscheibe
743 5	4812 466 98934	Scheibe
743 7	4812 466 68514	Dichtung
751 0	4812 418 18338	Ablaufschacht ,NTC WI
755 0	4812 530 29119	Kruemmer
755 2	4812 530 48148	Auffangschale
756 0	4812 360 58099	Schwimmer
761 0	4812 480 58122	Sieb fein
761 2	4812 418 18337	Abdeckung Sieb gr.10809
761 3	4812 418 18341	Abdeckung
761 4	4812 530 58141	O-Ring
763 0	4812 480 58123	Sieb grob Kombination
781 0	4812 530 29113	Ablaufschlauch
781 3	4812 281 28417	Klappe Rueckschlag
783 4	4812 530 28888	Schlauch Magnetventil-WE
783 6	4812 530 28796	Schlauch 10x3x180+10
791 0	4812 532 68099	Dichtung Schacht
791 2	4812 530 58093	Dichtung SK 5199 01 4, 1 St
791 4	4812 466 68503	Dichtung
791 5	4812 466 68504	Dichtung
901 0	4822 401 10258	Schlauchschelle 10-18 mm
901 1	4812 401 18424	Schelle 050,0
901 2	4812 401 18157	Schlauchschelle 32-50/9 C61
901 5	4812 401 48573	Schelle 028,6
910 1	4812 502 18394	Schraube 3,5x17-H
910 2	4812 502 18363	Schraube 4,0x12-H
910 3	4812 502 18527	Schraube 4x15 T20
910 4	4812 502 18385	Schraube M3,5x8-T15M
910 5	4812 502 18393	Schraube 3,5x9-1 Tx15
910 7	4812 502 18397	Schraube INOX A2 M 5X12
910 8	4812 502 18389	Schraube 5x20 T20
910 9	4812 401 18425	Schraube 2,5x18-H
964 0	4812 466 68536	Dichtung Gehaeuse re/l
964 1	4812 466 68469	Dichtung Gehaeuse oben
993 0	4819 530 29028	Einhaengebogen
993 1	4812 466 78388	Folie Wrasenschutz
993 5	4822 532 80216	Fuelltrichter Salz

Technische Daten

Abmessungen + Gewicht

Abmessungen Gerät

Höhe	85.0 cm
Breite	59.7 cm
Tiefe	59.6 cm
Gewicht	56 kg

Elektronik

Service Elektronik
siehe Ersatzteilliste
Serien Elektronik

Programmed control board and programing of version , see „Board Service"and „DATA"on rating plate of inner door:

UCB 719091

User/Control Board

Dataset 719081

UCB Basis, nicht programmiert 4619 727 06231

see on board itself

Programmablauf

Programme P1a - P3a - P4a - P5a - P6a - P7a

see program diagram

Programmfolge P1a-P3a-P4a-P5a-P6a-P7a

Programmablauf und Dauer

Daten Energie Label

Referenzprogramm P5a

Energieklasse A

Waschperformance A

Trockenperformance A

Alarm

Klarspülanzeige
Salzanzeige
Wasserhahn geschlossen

Optionen

Delay timer 3digits - 1 to 24 h

Halbe Beladung
Sani rinse

Programminformation

All programs will be locked after start. Changing the program or ?nishing 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.

Startanzeige

Inhalt

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
Regeneración	0,3 l	15 mm
Llenados limpieza 3x	1,0 l	60 mm
Prelavado	4,8 l	120 mm
Lavado	4,2 l	118 mm
Aclarado intermedio 1	4,2 l	118 mm
Aclarado intermedio 2	4,2 l	118 mm
Aclarado final	4,2 l	118 mm
Sobrenivel / seguridad	8,5 l	141 mm

Messung Wasserlevel

Para medir el nivel de agua en la cuba, sacar el filtro y con un metro medir desde fondo del colector.

Grobfiter entnehmen, stattdessen Meterstab auf tiefsten Punkt einstellen, Wasserhöhe ablesen!

Reinigungen Kapazität

Vorwäsche	10 cm ³
Hauptwäsche	40 cm ³
Klarspülerdosierung	135 cm ³
Dossiereinstellungen	1 ml - 6 ml

Wasserenthärter

Salzbehälter	2 kg
Harzbehälter	700 cm ³
Regenerierdosierung	300 cm ³

Wasserdruck

Zulaufdruck	0.3 bar - 10 bar
Umwälzpumpendruck	0.3 bar

Drehzahlen

Umwälzpumpe Motor	2800 RPM
Laugenpumpenmotor	3000 RPM
Sprüharm unten	30 RPM - 40 RPM
Sprüharm oben	30 RPM - 40 RPM
Ventilator	2500 RPM

Durchfluß

Wasserzähler	208 Imp/l	208
Umwälzpumpe		65 l/min
Laugenpumpe		16 l/min
Abpumphöhe Max	1.1 m	1,1
Zulaufventil		4 l/min
Sprüharm unten		~33 l/min
Sprüharm oben	~27 l/min Sprayarm/ Shower top	~8 l/min
Dusche oben		l/min
Ventilator		
Gesamt		900 l/min
Primärleistung		210 l/min
Sekundärluftstrom		780 l/min
Ventilator		
Gesamt		900 l/min
Primärleistung		210 l/min
Sekundärluftstrom		780 l/min

Elektrische Basisdaten

Spannung	220/ 240 V
Frequenz	50 Hz
Gesamtleistung	2.0 kW - 2.2 kW
Anschlusswert	2,0 kW - 2,2 kW
Sicherung	10 A

Umwälzpumpe Motor (Permanent-Spülsystem)

Spannung	220/ 240 V
Anschlusswert	140 W
HI	69 Ω
HA	48 Ω
Kondensator	4 μ F

Umwälzpumpe Motor

Spannung	220/ 240 V
Frequenz	50 Hz
Anschlusswert	80 W
Widerstand	30 Ω

Laugenpumpenmotor

Spannung	220/ 240 V
Anschlusswert	30 W
Widerstand	146 Ω

Ventilator

Spannung	220/ 240 V
min.	220 V
max.	240 V
Widerstand	141 Ω

Heizung*1 Element system*

Spannung	220/ 240 V
Anschlusswert	1.87/ 2.04 kW
Widerstand	24.5 Ω
Aufheizgeschwindigkeit	~2.0 $^{\circ}$ C/min
Oberflächentemperatur	~115 $^{\circ}$ C
Sicherheitsthermostat selbstrückstellend (Wassertemperatur)	85 $^{\circ}$ C
Sicherheitsthermostat selbstrückstellend (Wassertemperatur)	~85 $^{\circ}$ C
Sicherung	206 $^{\circ}$ C

Einfachzulaufventil

Spannung	220/ 240 V
Frequenz	50/ 60 Hz
Widerstand	3.76 k Ω

Regenerierventil

Spannung	220/ 240 V
Frequenz	50/ 60 Hz
Widerstand	3.13 k Ω

Spule für Kombidosierung

Spannung 220/ 240 V
 Frequenz 50/ 60 Hz
 Widerstand 1.3 kΩ

Reedkontakte

Wasserzähler
 Salzanzeige
 Klarspüleranzeige

NTC

20 °C	58.1	kΩ
25 °C	47.1	kΩ
30 °C	38.2	kΩ
40 °C	25.4	kΩ
50 °C	17.2	kΩ
60 °C	11.8	kΩ
70 °C	8.3	kΩ
80 °C	6	kΩ
85 °C	4	kΩ
20 °C	58,1	kΩ
25 °C	47,1	kΩ
30 °C	38,2	kΩ
40 °C	25,4	kΩ
50 °C	17,2	kΩ
60 °C	11,8	kΩ
70 °C	8,3	kΩ
80 °C	6	kΩ
85 °C	4	kΩ

Regeneration

Inhalt 300 cm³
 Nach Waschzyklen
 abhängig von der Wasserhärteeinstellung
 Salzverbrauch für Regeneration ~77 g
 Anzahl der Spülprogramme mit 2 kg Salz ~26
 Wasserhärte 0 - 40 °dh 0 - 10,7 mmol/l 0 - 107 °Fh

Wasserhärteeinstellung

To change the water softener setting:

- Push the POWER button on
- Change to program 2
- Hold the START button for 5 seconds until the LED is flashing
- Water softener setting is shown by flashing LED
- By pushing the START button you can change the setting
- Push the POWER button off to save and exit the water softener setting

Regeneration ohne Wasserhärteeinstellung

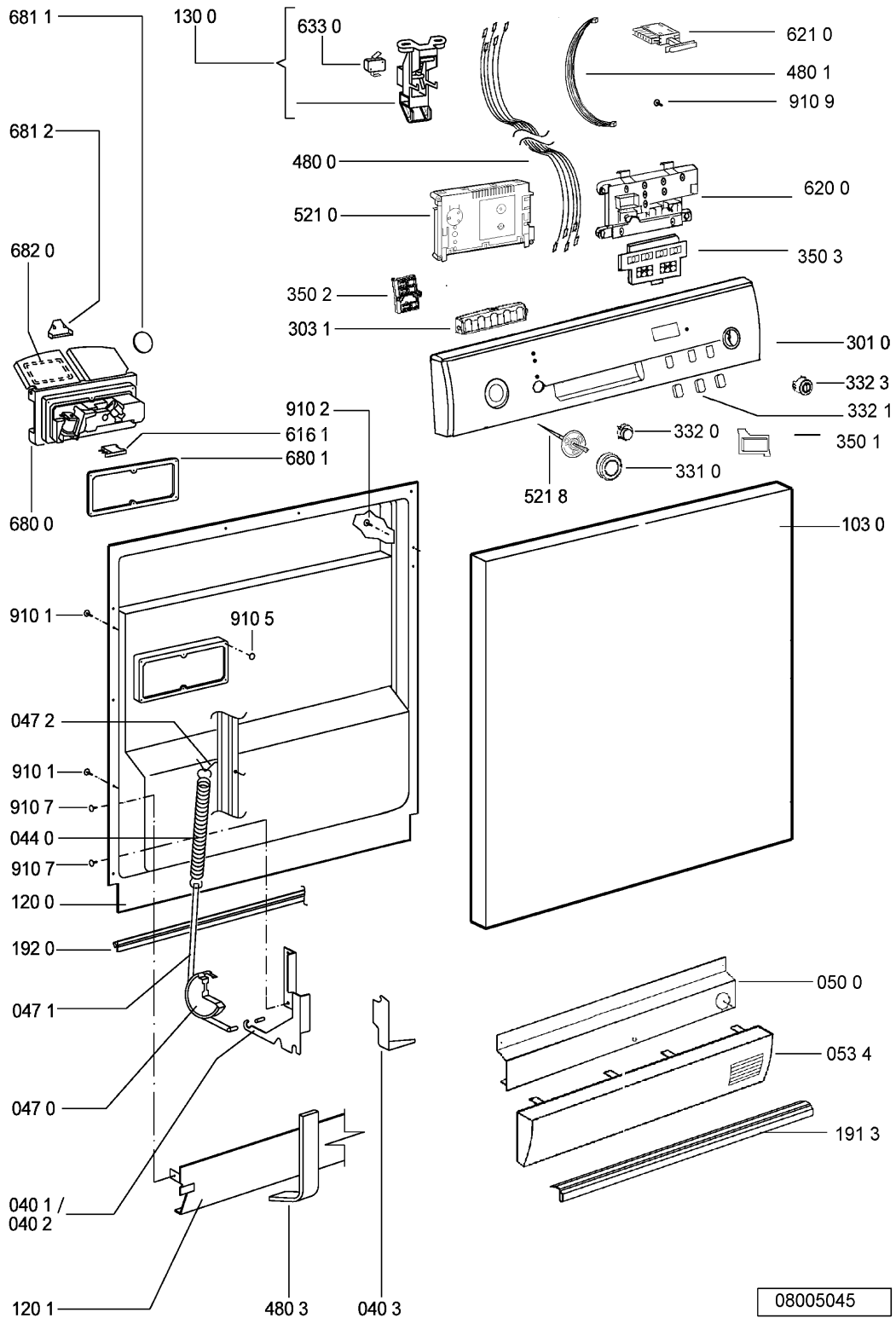
Wasserhärte

water hardness	Water hardness	German degrees °dH	French degrees °fH	English degrees Clarke °e	mmol/l
1 soft		0 - 5	0 - 9	0 - 6,3	0 - 0.9
1 - 2 soft/ medium		6 - 10	10 - 18	7 - 12.6	1 - 1.8
2 medium		11 - 15	19 - 27	13.3 - 18.9	1.9 - 2.7
3 medium/ hard		16 - 21	28 - 37	19.6 - 25.9	2.8 - 3.7
4 hard		22 - 28	38 - 50	26.6 - 35	3.8 - 5.0
4 very hard		29 - 35	51 - 63	35.7 - 44.1	5.1 - 6.3
4 extremely hard		36 - 60	64 - 107	44.8 - 74.9	6.4 - 10.7

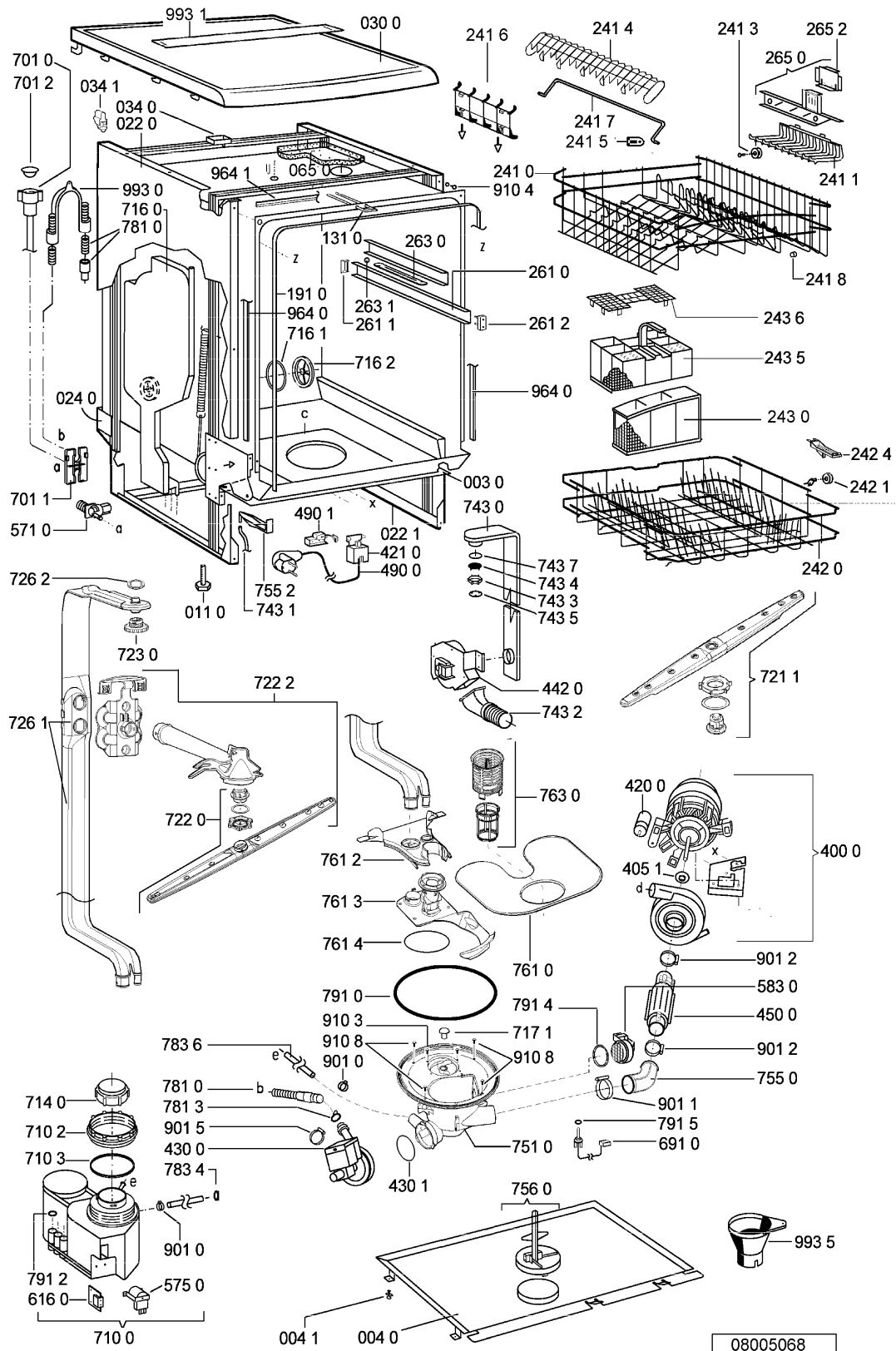
Zubehör

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

Explosionszeichnung



Explosionszeichnung



Text /Legende

Test procedure for SERVICE-TEST-PROGRAM Point dishwashers appliances with and without 7 Segment Display and an Integrated Board.

Switch on the appliance.

1. If there is a defective component indicated, open up 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. Visually check the control board (CB).
4. At the end of the repair start the appliance and delete the failure (press in the start button for more the 1.5 sec). After this, start the test program again to see that the failure is solved.

More details: see following pages.

Attention:

Danger of 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

F9 continuous water inlet

are checked and indicated immediately after start of the program.

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

When these failures are not solved, the 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 72701-1

Text /Legende

Handling of failures

- 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 indicated)
- 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
- WI defective. (doesn't switch back anymore)
- 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
- 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










Text /Legende

- F8. Water Level Failure.
Failures are supervised over the whole program.
Spray pump works, the WI switches more than 20 times in 2 minutes back.
- WI defect? Should switch on after approx. 1 Ltr
- Sieve blocked
- Water strongly foams
- Pot has over turned and has filled with spray water
- No stable spray pump (SPM) pressure.
- 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
- FA. WI Failure
If the electronic signal of the Flow meter has been received for the 3.4 Ltr. of water on permanent wash system and the WI signal "Water in the sump" is missing then an failure is recorded.
- FE. EPROM Failure
After the start of the test programme the EPROM is immediately checked for errors and an error is displayed if any are found.

Text /Legende

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
F1 NTC-Failure	 1 x flash 1s Pause 1 x flash.....
F3 Failure in Heating System	 3 x flashes 1s Pause 3 x flashes.....
F4 Draining Failure	 4 x flashes 1s Pause 4 x flashes.....
F6 Water Tap closed	 6 x flashes 1s Pause 6 x flashes.....
F7 Flow Meter Failure	 7 x flashes 1s Pause 7 x flashes.....
F8 Water Level Failure	 8 x flashes 1s Pause 8 x flashes.....
F9 Continuous Waterinlet	START  9 x flashes 1s Pause 9 x flashes.....
FA WI-Failure	START  11 x flashes 1s Pause 11 x flashes.....
FE EPROM Failure	START  15 x flashes 1s Pause 13 x flashes.....

 LED flashing

Text /Legende

Attention:

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

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

If a failure is indicated directly after you switch on the appliance. Then fix the mistake, erase failure and start the test program again (see following start procedure).

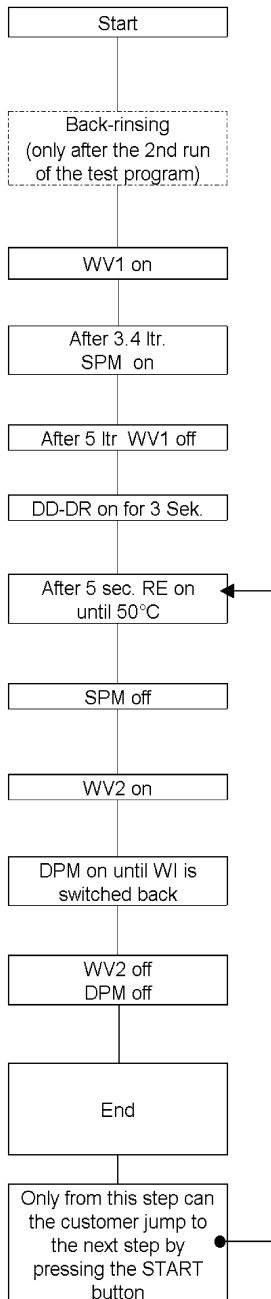
Start procedure

Start the test program if there is no failure indicated

1. Turn OFF appliance at the Mains.
2. Select program position 1.
3. Push start button and hold it.
4. Turn On appliance still holding the start button.
5. Release the start button when the Start-LED flashes.
6. Start the 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 test program again, to see, if the failure really is solved.

Text /Legende

Test Programme



Remarks

The 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.

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

Attention:

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

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