



Service-Information

integrierbar Geschirrspüler

ADG 944 NB

8542 944 01040

Letzte Änderung: 07.06.2008

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

Änderungen vorbehalten

Ersatzteilliste

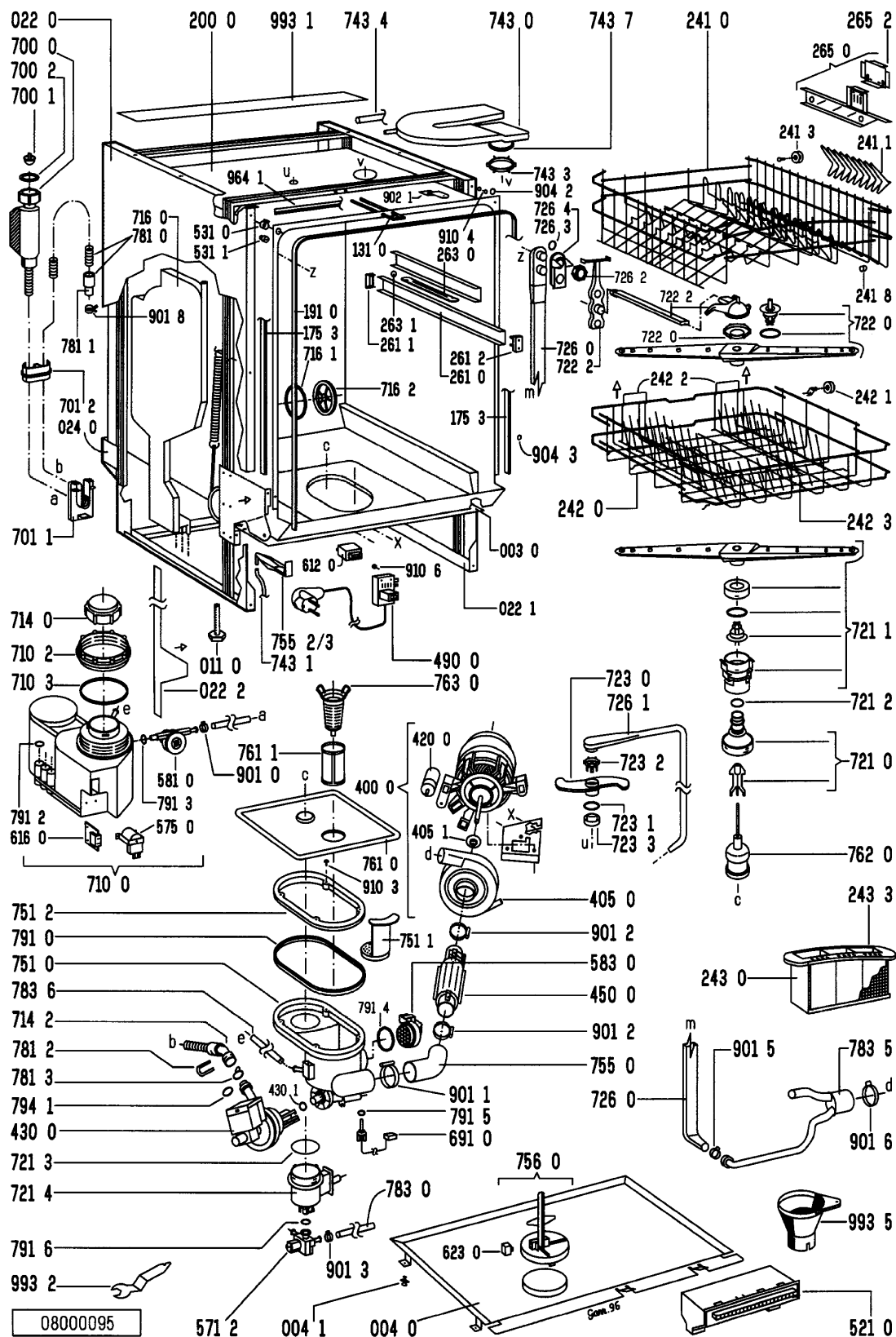
Pos-Nr.	12NC	Beschreibung
003 0	4812 440 18947	Traverse Quer
004 0	4812 440 18952	Bodenwanne
004 1	4812 401 18402	Halter Bodenwanne
011 0	4812 505 18369	Fuss lang
022 0	4812 440 19398	Seitenwand links Ab: 30/96
022 0	4812 440 19362	Seitenwand links
022 1	4812 440 19397	Seitenwand rechts Ab: 30/96
022 1	4812 440 19361	Seitenwand rechts
022 2	4812 440 18953	Distanzstueck Daemmstreifen
024 0	4812 440 18948	Rueckwand Blende
040 1	4812 417 18774	Scharnier links
040 2	4812 417 18773	Scharnier rechts
044 0	4812 492 38362	Feder f.Tuer
044 1	4812 492 38356	Feder f.Taste
047 0	4812 404 48591	Bremse Tuer
047 1	4812 401 18397	Bremsband an Tuerscharnier
047 2	4812 404 68023	Haken
053 0	4812 440 88875	Sockelblende o.Loch Ab: 30/96
053 0	4812 440 88106	Sockelblende o.Loch
103 0	4812 440 18986	Tuer aussen lack. WS
105 0	4812 404 48611	Befestigung f.GSI-Tuer
105 2	4812 505 68004	Klammer
120 0	4812 440 18961	Innentuer gedaemmt KDTL
120 1	4812 440 18955	Leiste mit Gewinde
130 0	4812 417 58361	Kippschloss kpl. ws
131 0	4812 401 18403	Haken Verschluss
175 3	4812 466 68532	Leiste Moebelabschl.re/li ws
191 0	4812 466 68534	Dichtung Tuer, Rahmen
192 0	4812 466 68467	Tuerdichtung unten
200 0	4812 418 18183	Behaelter kpl.
241 0	4812 458 18276	Korb oben gerade
241 1	4812 458 18283	Halter Tassen rechts WS
241 1	4812 458 18284	Halter Tassen rechts GR Ab: 09/96
241 3	4812 528 88068	Korbrolle Set O-Korb verstb.
241 8	4812 466 68482	Distanzstueck Set O-Korb
242 0	4812 458 18274	Korb unten kpl. WP 3Einsaetze
242 1	4812 528 88069	Korbrolle U-Korb ws, einzeln
242 2	4812 458 18262	Einsatz f.U-Korb Stachel
242 3	4812 458 18275	Einsatz f.U-Korb Stachel kurz
243 0	4812 458 18296	Korb Besteck ZW
243 3	4812 458 18289	Korb Besteck kpl. m.Rahmen
261 0	4819 462 38271	Schiene Teleskop, innen
261 1	4819 404 48819	Kappe Teleskopsch. hinten
261 2	4812 462 78995	Kappe Teleskopsch. vorne
263 0	4819 520 18013	Kugelkaefig KDTL
263 1	4812 520 48001	Kugel Plastik
265 0	4812 404 48599	Korbverstellung kpl.
265 2	4812 404 48589	Griff Korbverstellung weiss
301 0	4812 453 79543	Schalterleiste Spritzt. SW
303 1	4812 417 58366	Kindersicherung kpl. SW

Pos-Nr.	12NC	Beschreibung
305 0	4812 440 19365	Leiste Abschluss SW
305 1	4819 502 18241	Schraube Kunststoff
305 2	4819 505 18191	Mutter
305 3	4812 440 19366	Leiste verstellbar 5mm SW
305 4	4812 440 19367	Leiste verstellbar 10mm SW
322 0	4812 453 79605	Einlage bed. SW
331 0	4812 413 58895	Knopf Programmwahl kpl. SW
331 1	4812 325 88003	Ring Knopf SW
332 0	4812 410 28531	Drucktaste Kappe SW
350 0	4812 276 58057	Anzeige Elektr. (DB)
351 1	4812 381 28021	Lichtleiter
400 0	4812 259 28654	Motor kpl.m.UP 220V/50Hz
405 0	4812 360 18358	Umwaelzpumpe kpl.o.Motor
405 1	4819 515 28158	Dichtung
420 0	4812 121 18132	Kondensator Betrieb 4mF
430 0	4812 360 18357	Laugenpumpe kpl. DOLPH
430 1	4812 466 68506	Wellendichtring KDTL
450 0	4812 259 28653	Heizelement m.Mantel mont.
480 0	4812 321 28364	Kabelbaum Satz
490 0	4812 401 18394	Netzkabel 1,6m
490 0	4812 321 18026	Netzkabel 3m
490 0	4812 321 18019	Netzkabel 5m (o.Stecker)
521 0	4812 214 78149	Steuerung (CB) ZEL-Satz
531 0	4812 273 18051	Schalter f.Wasserhärte
531 1	4812 273 18052	Einstellrad f.Wasserhärte
571 2	4812 281 28362	Sieb Ventil
575 0	4812 281 28361	Regeneriervent. KDTL
581 0	4812 349 28003	Zaehlwerk Wasser
583 0	4812 271 28355	Schalter Membran
612 0	4812 280 58018	Relais Heizung
616 0	4812 281 18047	Reedkontakt ELSA KDTL
620 0	4812 218 38023	Eingabe Electr. (UB)
623 0	4812 271 38356	Mikroschalter Schwimmer KDTL
633 0	4812 271 38355	Mikroschalter Tuer KDTL
680 0	4812 418 68135	Kombidosierung o.KSM
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
700 0	4812 530 28804	Zulaufschlauch 2 Ventile 4,2m
700 0	4812 530 28788	Zulaufschlauch 2 Ventile 2m
700 1	4812 480 48019	Sieb
700 2	4812 520 58002	Dichtung KDTL
701 1	4812 310 18153	Schlauchsich. Set KDTL
701 2	4819 401 18423	Halter
710 0	4812 418 68128	Monoblock
710 2	4819 310 38536	Gewinding grau
710 3	4819 466 69562	Dichtung KDTL
714 0	4812 462 78993	Verschlusskappe o.Anzeige

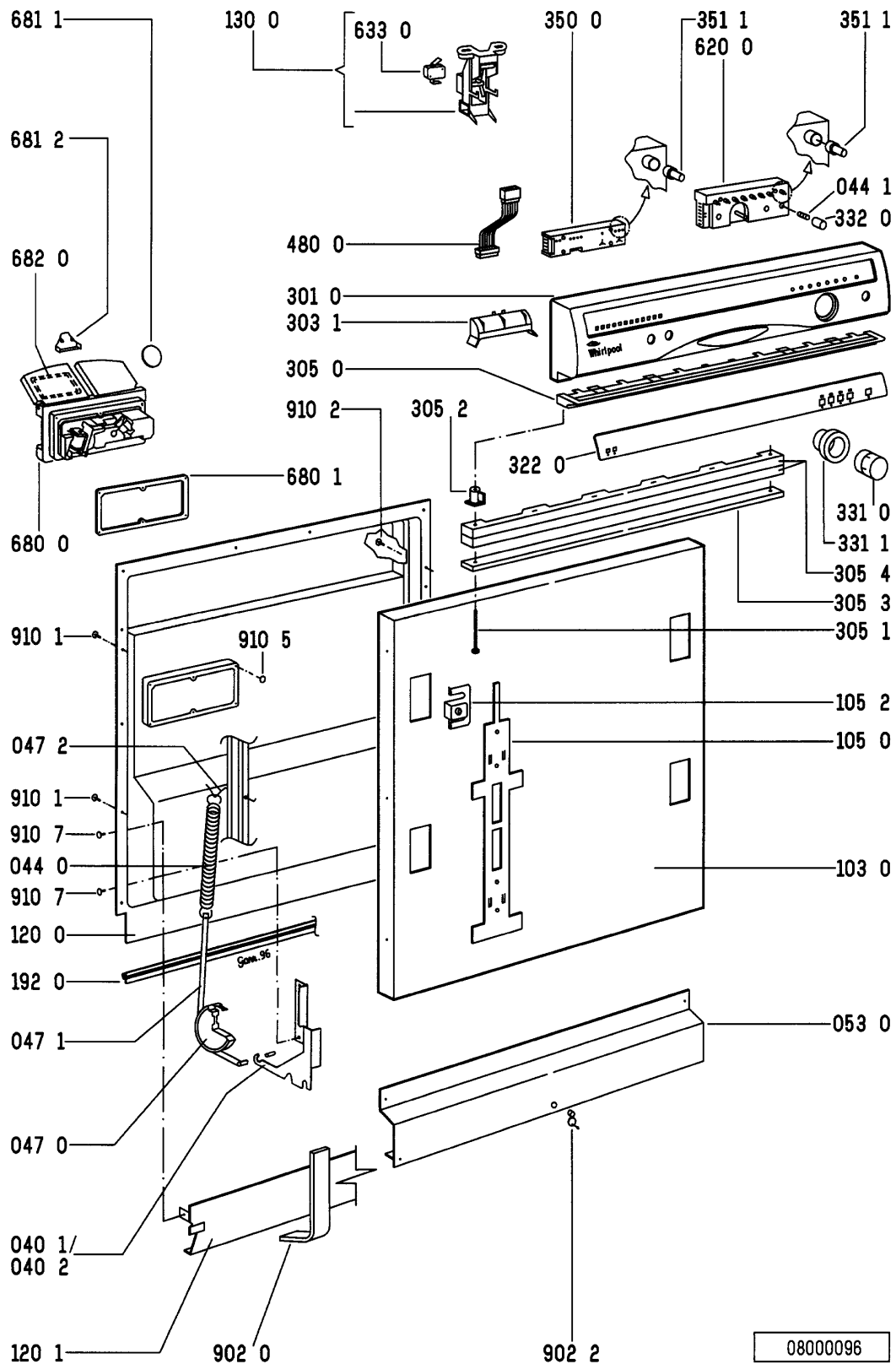
Pos-Nr.	12NC	Beschreibung
714 2	4812 440 18963	Gehaeuse Rueckschlagkappe
716 0	4812 418 68141	Regenerierdos. kpl.m.WE
716 1	4812 466 68475	Dichtung Regenerierdos.
716 2	4812 462 78994	Abdeckung Regenerierdos. gr.10809
721 0	4812 360 68043	Nabe Sprueharm unten kpl.
721 1	4812 360 68047	Sprueharm unten kpl. 2-armig
721 2	4812 466 68491	Dichtung 25x2,3B
721 3	4812 466 68489	Dichtung 76x2,5
721 4	4812 418 18176	Gehaeuse Mikrofilter
722 0	4812 360 68044	Sprueharm oben kpl.
722 2	4812 360 68048	Nabe Sprüharm ob/ger. kpl.
723 0	4812 360 68049	Sprueharm Decke
723 1	4812 466 68483	Dichtung 3.Spruehebene
723 2	4812 404 48597	Clip Deckenrotor
723 3	4812 505 18362	Verschraubung Deckenzufuehrg.
726 0	4812 530 28786	Rohr Zufuhr 2.Spruehebene
726 1	4812 530 28787	Rohr Zufuhr 3.Spruehebene
726 2	4812 505 18358	Mutter
726 3	4812 466 68512	Dichtung f.Andockflansch
726 4	4812 462 79633	Zentrierung f.Andocksystem
743 0	4812 511 48171	Verfluessiger
743 1	4812 530 28102	Zulaufschlauch 9x1,5x250
743 3	4812 505 18364	Mutter Kondens./Luftfuehrg.
743 4	4812 530 28807	Schlauch Zufuhr 9x1,5x270+10
743 7	4812 466 68514	Dichtung
751 0	4812 418 18169	Ablaufschacht
751 1	4812 418 18171	Wasserfuehrung
751 2	4812 440 18954	Befestigung Rahmen
755 0	4812 530 28785	Kruemmer
755 2	4812 530 48136	Auffangschale m.Ablaufrohr li
755 3	4812 530 48137	Auffangschale m.Ablaufrohr re
756 0	4812 360 58099	Schwimmer
761 0	4812 480 58061	Sieb fein Niro
761 1	4812 480 58072	Sieb Einsatz (Feinsieb)
762 0	4812 480 58065	Mikrofilter rotierend o.Magnet
763 0	4812 480 58057	Sieb grob
781 0	4812 530 28737	Ablaufschlauch
781 1	4819 530 28286	Schlauchmuffe
781 2	4819 492 68405	Klammer Rueckschlagventil
781 3	4812 281 28364	Klappe Rueckschlag KDTL
783 0	4812 530 28792	Schlauch 11,5x3x200
783 5	4812 530 28797	Verteiler Rot.Sieb
783 6	4812 530 28796	Schlauch 10x3x180+10
791 0	4812 532 68063	Dichtung Schacht
791 2	4812 530 58093	Dichtung SK 5199 01 4, 1 StÄck
791 3	4812 466 68502	Dichtung 10x3,5
791 4	4812 466 68503	Dichtung
791 5	4812 466 68504	Dichtung
791 6	4812 466 68505	Dichtung
794 1	4819 530 58032	Dichtung 20x2,5

Pos-Nr.	12NC	Beschreibung
901 0	4812 401 18191	Schelle 017,8
901 1	4812 401 18396	Schelle 050,0-708 Z
901 2	4812 401 18401	Schelle
901 3	4812 401 18404	Schelle 019,8-708Z
901 5	4812 401 18406	Schelle 028,6-708Z
901 6	4812 401 18408	Schelle 038,1-708Z
901 8	4812 401 18393	Schelle Ablaufschl. 20-32/9
902 0	4812 401 18195	Klammer f.Erdung
902 1	4812 466 78361	Befestigung f.Einbauger.
902 2	4812 404 78239	Halter Fixierteil Fuss
904 2	4812 462 79635	Abdeckung WS 3,5x5
904 3	4812 462 79636	Abdeckung WS 3,5x4
910 1	4812 502 18019	Schraube
910 2	4812 502 18363	Schraube 4,0x12-H
910 3	4812 502 18364	Schraube 5x20-TORX
910 4	4812 502 18365	Schraube 3,5x5,5-TORX
910 5	4812 502 18367	Schraube 3,5x8-TORX T15
910 6	4812 502 18369	Schraube A2F M4x6
910 7	4812 502 38132	Schraube DIN 965
964 1	4812 466 68511	Dichtung Gehaeuse oben ws
993 1	4812 466 78018	Folie Wrasenschutz
993 2	4812 404 48609	Steckschlüssel Fussverstg.
993 5	4822 532 80216	Fuelltrichter Salz

Explosionszeichnung

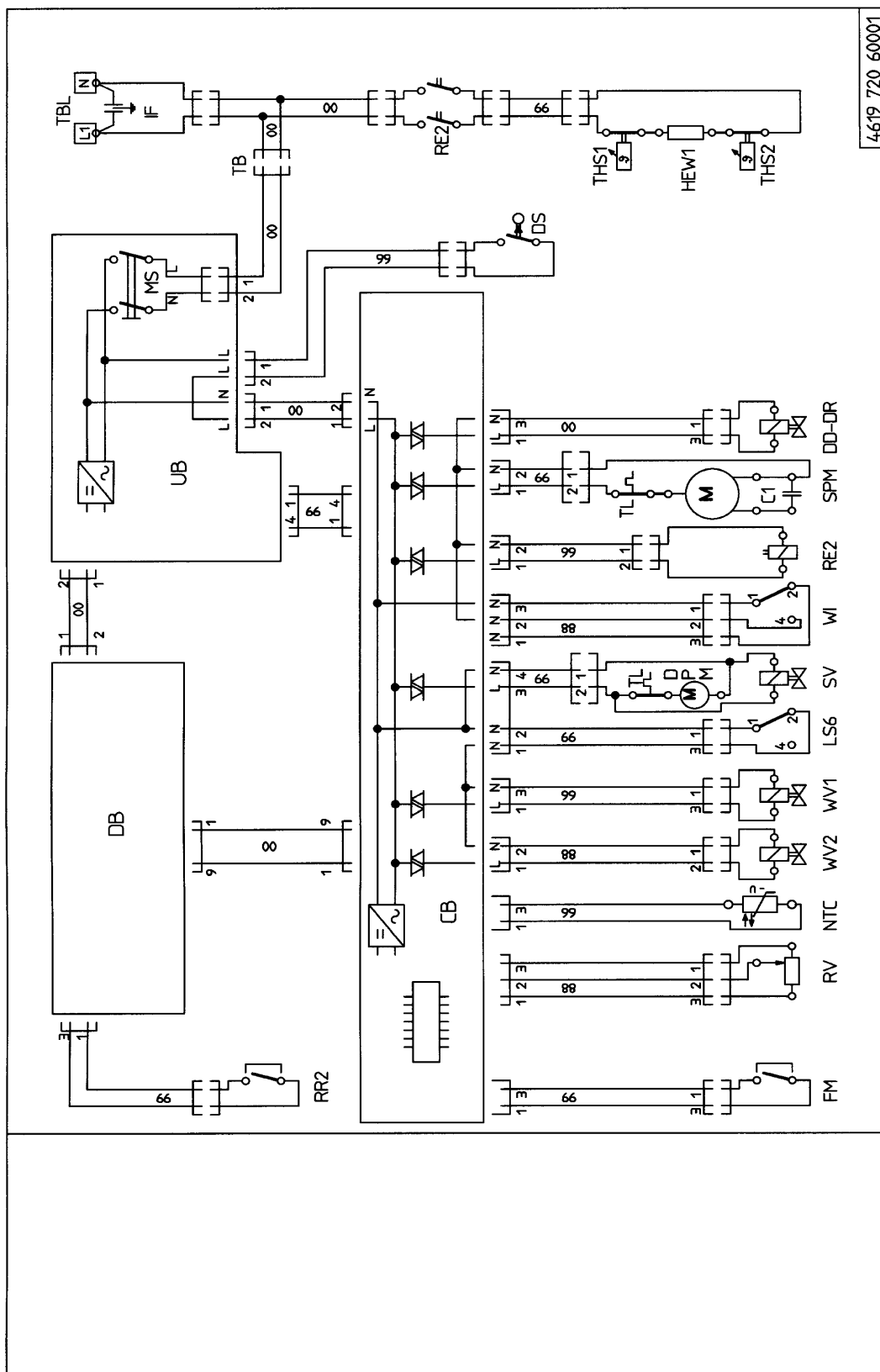


Explosionszeichnung



08000096

Stromlaufplan



4619 720 60001

Legende

3IN1	Multi-tablet Micro switch (3in1)
ASA/	Automatic salt adaption/
WHS	Water hardness sensor
C1	Capacitor
CB	Control board
CULCD	Control unit LCD
DB	Display board
DUB	Display- and User board
DLB	Timerswitch Delay
DPM	Drain pump motor
DD	Cleaning agent dosage
DON	Turbidity sensor
DR	Final rinse dosage
DS	Door switch
DVH	Diverter ventill high
DVL	Diverter ventill low
FM	Flow meter
HEWI	Heating
HEX	Valve HEX - Heat exchanger
IF	Interference filter
LS6	Water leakage switch
L	Line
LOTF	Light on the floor module
M	Motor
MS	Main switch
MIX	Mix-Valver for regeneration
NTC	Thermostat temp. sensor
N	Neutral
OWI	Water indicator, optical
PRG	Plug to program
RE	Relay Heating
RE2	Relay Mix valve for Regeneration
RE3	Relay Spray pump motor
RV	Water hardness switch
RR SA	Reed relay salt
RR RA	Reed relay rinsaid
SPM	Sprayarm motor
THS1	Safety thermostat
THS2	Fuse
TBL	Power supply terminal
TL	Winding protective contact
UB	User board
UCB	User- and Control board
UDB	User- and Display board
VM	Fan ventilator
VSM	Variable speed Motor
WI	Water indicator
WV1	Water inlet valve
WV2	Water regenerating valve
ZW	Zone washing valve
00	black
66	blue
88	grey
99	white

08000000en

Schließschema

		Komponente										Programmtafel									
		Ventilator (trocknen optional)	Zonenwäschventil (optional)	Dosiermagnet Reiniger Klarsp. DD-OR	Umweltzumpenmotor SPM	Heizungsrelais REZ	Wasserindikator WI	Stabventil SV	Laugenpumpe DPM	Regenerierventil WYZ	Zuflutventil WV1	Programmbild auf LED									
		VM	ZW	DD-OR	SPM	REZ	WI	SV	DPM	WYZ	WV1										
Funktion																					
Starposition fuer alle Programme abpumpen	1											13+30 s									
fuellen	2											FM									
abpumpen	3											13+10 s									
fuellen	4											FM									
abpumpen	5											13+10 s									
fuellen	6											FM									
abpumpen	7											13+10 s									
fuellen-abspülen	8											FM									
spülen-heizen	9											t2 = °C									
spülen	10											min									
spülen-abpumpen	11											13+30 s									
fuellen-abspülen	12											FM									
spülen-dosieren reinigen	13											3 s									
spülen-heizen	14											t2 = °C									
spülen	15											min									
spülen-heizen	16											t2 = °C									
spülen	17											min									
spülen-abpumpen	18											13+30 s									
fuellen-abspülen	19											FM									
spülen	20											6,5 min									
spülen-abpumpen	21											13+30 s									
fuellen-abspülen	22											FM									
spülen	23											3,5 min									
spülen-abpumpen	24											13+30 s									
fuellen-abspülen	25											FM									
spülen-heizen	26											t2 = °C									
spülen-dosieren klarspülen	27											1 min									
spülen	28											3 s									
spülen-dosieren klarspülen	29											1,5 min									
spülen-heizen	30											t2 = °C									
spülen	31											1 min									
abpumpen	32											13+30 s									
trocknen	33											2 min									
trocknen-(regenerieren)	34											1 min									
trocknen-(regen.) pumpen	35											13+30 s									
trocknen-(regenerieren)	36											1 min									
trocknen-(regenerieren)-fuellen	37											1 s									
trocknen-(regenerieren)	38											3 s									
trocknen-(regenerieren)-fuellen	39											1 s									
trocknen-abpumpen	40											13+30 s									
trocknen	41											9 min									
trocknen-abpumpen	42											13+30 s									
Ende	43																				

		VM	ZW	DD-OR	SPM	REZ	WI	SV	DPM	WYZ	WV1	LEDs					Testprogramm Service
												PS1	PS2	PS3	PS4	ZW	
abpumpen	1																
fuellen	2																
abpumpen	3																
fuellen	4																
abpumpen	5																
fuellen	6																
abpumpen	7																
fuellen-abspülen	8																
pausa-dosieren-reinigen	9																
spülen-heizen	10																
regenerieren	11																
regenerieren-abpumpen	12																
trocknen-regenerieren-abpumpen	13																
Ende	14																

4619 720 47121-2

Text /Legende

Testprozedur für Service-Testprogramm der Dolphin Geschirrspüler

1. Starte Testprogramm
Wenn ein Fehler angezeigt wird, öffne den Sockel und ziehe die Controllektronik nach vorne.
2. Überprüfe das als defekt angezeigte Bauteil.
Ziehe den Stecker des Bauteils von der Controllektronik und messe das Bauteil selbst, sowie die Zuleitungskabel zum Bauteil mit einem Ohmmeter durch.
3. Überprüfe das Controllboard.
4. Nur wenn keine Reaktion bei drücken der Programmtasten oder einstellen verschiedener Programme erfolgt, überprüfe die Controll-, Eingabeelektronik mit Hilfe der Service Testpunkte.
5. Am Ende des Programmes starte das Testprogramm erneut, um sicher zu sein, daß der Fehler beseitigt ist.

Weitere Details: siehe folgende Seiten

Achtung :

Kurzschlußgefahr! Kurzschlüsse können die Controllektronik zerstören.

Klemmen des Meßgerätes erst an die Testpunkte setzen, wenn das Gerät vom Netz getrennt ist.

Wenn die Elektronik feucht ist, das Gerät nicht einschalten.

Zum Prüfen des Gerätes, dieses wieder an das Netz anschließen.

Die Fehler, **F1** (NTC defekt), **F2** (Wasser in Bodenwanne) und **F9** (ständiger Wasserzulauf), werden sofort nach dem Start jedes Programmes angezeigt.

Deshalb müssen diese Fehler vor dem Start des Testprogramms repariert werden, denn sonst läuft das Testprogramm nicht ab.

Die elektrischen Komponenten werden über einen Triac mit Spannung versorgt. Wenn die Spannungsversorgung eines Bauteils gemessen werden will, darf dies nur parallel zum angeschlossenen Bauteil gemacht werden. Wenn an einem abgezogenen Stecker die anliegende Spannung gemessen wird, kann diese infolge des fehlenden Bauteilewiderstandes sich verringern, und zu einem falschen Ergebnis führen.

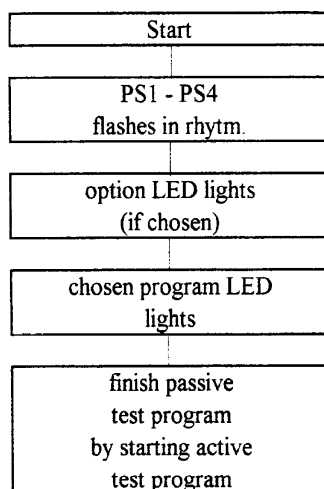
Text /Legende

Indication of failure and alarms

Whirlpool and Ignis appliances

failure	failure no.	indication	indication within test program
NTC - break	F1	start LED flashes	PS1 flashes
water leakage failure	F2	start LED flashes	PS2 flashes
heating system failure	F3	start LED flashes	PS3 flashes
draining failure	F4	start LED flashes	PS4 flashes
spray arm blocked	F5	PS1 flashes	PS1 + PS4 flash
water tap closed	F6	start LED flashes	PS2 + PS4 flash
flow meter failure	F7	start LED flashes	PS3 + PS4 flash
water level failure	F8	start LED flashes	PS2 + PS3 flash
water inlet continuously on	F9	start LED flashes	PS1 + PS3 flash
salt		alarm LED on	alarm LED on
rinse agent		alarm LED on	alarm LED on

Passive test program



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

Start procedure

1. Switch off the appliance
2. Push start button and hold it and select program BIO-ECO 50 °C (d)
3. Finish pushing the start button when the start LED flashes
4. Failure indication

Program sequence LED

PS1	1. LED	backrinsing prewash
PS2	2. LED	mainwash intermediate rinse final rinse
PS3	3. LED	drying
PS4	4. LED end	goes off if any button is pushed; goes off after 30 min. progr. is finished

Text /Legende

Indication of failure and alarms

Bauknecht appliances low and high version

failure	failure no.	indication without digits	indication with digits	indication within test program
NTC - break	F1	start LED flashes	F1 at digits	PS1 flashes F1 at digits
water leakage failure	F2	start LED flashes and alarm LED	alarm LED flashes	PS2 flashes F2 at digits
heating system failure	F3	start LED flashes	F3 at digits	PS3 flashes F3 at digits
draining failure	F4	start LED flashes	F4 at digits	PS4 flashes F4 at digits
spray arm blocked	F5	PS1 flashes	alarm LED flashes	PS1 + PS4 flash F5 at digits
water tap closed	F6	start LED flashes	alarm LED flashes	PS2 + PS4 flash F6 at digits
flow meter failure	F7	start LED flashes	F7 at digits	PS3 + PS4 flash F7 at digits
water level failure	F8	start LED flashes	F8 at digits	PS2 + PS3 flash F8 at digits
water inlet continuously on	F9	start LED flashes	alarm LED flashes (water leakage)	PS1 + PS3 flash F2 at digits
salt		alarm LED on	alarm LED on	alarm LED on
rinse agent		alarm LED on	alarm LED on	alarm LED on

With the passive test program all LEDs and buttons can be tested.

If there is no failure, the passive test program runs normal.

Passive test program

Start procedure

Start

PS1 - PS4
flashes in rhythm.

option LED lights
(if chosen)

chosen program LED
lights

finish passive
test program
by starting active
test program

ROTARY VERSION

1. Switch off the appliance
2. Select program BIO/ECO (d)
3. Push start button and hold it and switch on the main switch
4. When start LED flashes, then release start button

PUSH BUTTON VERSION

1. Switch off the appliance
2. Push start button hold it and switch on the main switch
3. Release the start button when the start LED flashes
4. Select program BIO/ECO (d)

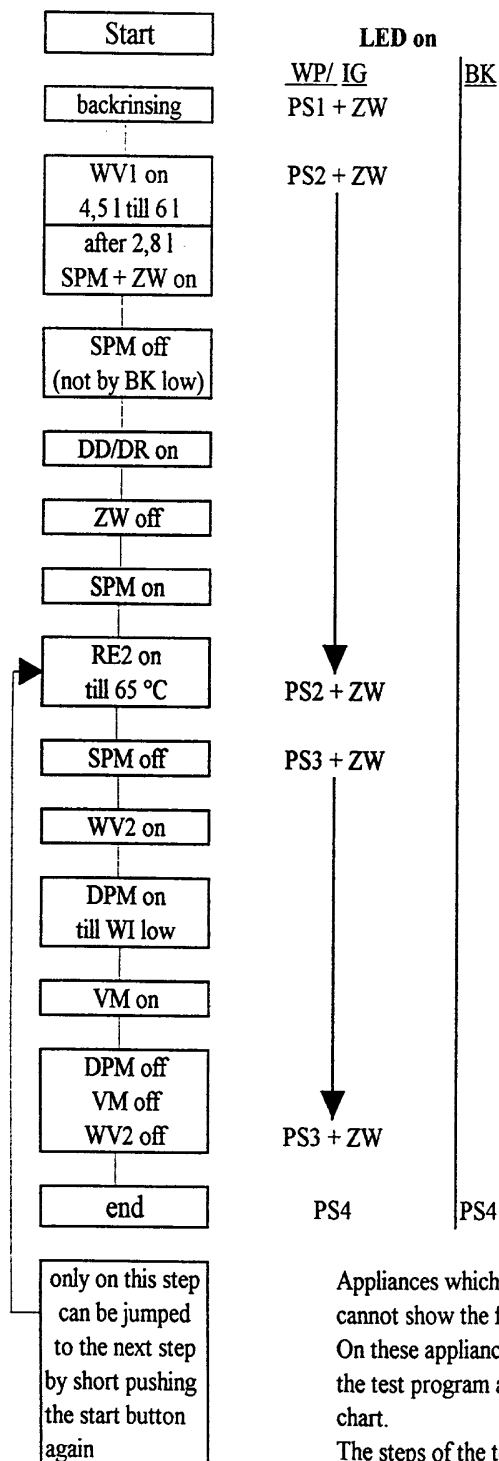
Program sequence LED

PS1	1. LED	backrinsing prewash
PS2	2. LED	main wash intermediate rinse final rinse
PS3	3. LED	drying
PS4	4. LED end	goes off if any button is pushed
		goes off after 30 min. progr. is fin.

Text /Legende

Active test program

All appliances Bauknecht, Whirlpool and Ignis



Test procedure

- passive test program O. K.
no: repair failure
yes: push start button shorter than 3 sec.
- active test program starts

Remarks

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

The failure position is indicated:

On WP and IG appliances by switching off the flashing start LED.

On BK appliances the flashing start LED lights continuously.

To leave the test progr. push start button for longer than 3 sec.

Too less salt or too less rinse aid leads not to the stop of the appliance.

The function of the zone wash valve can only be checked optically.

A defect leads to an instable SPM pressure.

The function of the sieve valve can only be checked optically.

In case of defect the housing of the selfcleaning microfilter is not empty on the end of the program.

Appliances which have no program sequence LED/digits cannot show the failure.

On these appliances the failure can only be found by starting the test program and following this by using the program chart.

The steps of the test program are as normal.

Text /Legende

Handling of failures

F1. NTC break

- temperature out of the normal value (-10 degr. till +85 degr. C)

Possible failures

- heating higher than +85 degr. C
- NTC defective
- dishwasher is frozen, less than -10 degr. C

F2. water leakage

- water is in the drip tray
float (LS6) switches off the WV1 and the electronic switches on the DPM till WI reports empty

F3. heating system defective

- too less heating speed (lower 1,5 degr. in 3 min.)
- heating (HEW) defective
- relais (RE2) defective

F4. draining failure

- drain pump starts and after 4 min. the WI detects not empty
- drain pump (DPM) defective
- syphon 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
- selfcleaning microfilter blocked
- spray pump (SPM) does not work well
- SAB sensor defective

Text /Legende**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 at low level

- 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 is switched on and the water indicator (WI) is switched on high level

- 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
- water indicator (WI) is defective

F8. water level failure

failure monitored during spray pump is on and the water indicator switches back more than 10 times in 2 min.

- water indicator defective
- 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) for WV1 is closed

reaction: interval 30 sec. draining / 20 sec. tracing

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

Text /Legende

			Programs												
BK	IG	WP	a	b	c	d	d	e	e	f	g	h	i	j	k
			B			B	W	B	W						
			K			K	I	K	I						
A3			X			X				X					
	A3	A3	X				X			X					
A4			X			X		X		X					
	A4	A4	X				X		X	X					
	A5	A5	X				X		X	X	X				
	A6	A6	X		X		X		X	X	X				
	A7		X	X	X		X		X	X	X				
B4			X			X		X		X					
B5			X			X		X		X	X				
		B5	X				X		X	X	X				
B6			X		X	X		X		X	X				
		B6	X		X		X		X	X	X				
		B7	X	X	X		X		X	X	X				
C5			X			X		X		X	X				
C6			X		X	X		X		X	X				
C7			X	X	X	X		X		X	X				
C11			X	X	X	X		X		X	X	X	X	X	X

- a prewash
- b glass 40 degr.
- c rapid 50 degr.
- d bio eco 50 degr.(BK without pre wash,WH IG with pre wash)
- e bio normal 50 degr.(BK with pre wash cold)
- e daily 65 degr.(only IG WH, without pre wash)
- f normal 65 degr.(with prewash cold)
- g intensive 70 degr.(with prewash 40 degr.)
- h -d- bio eco 50 degr.(BK without pre wash), + e-button
- i -e- bio normal 50 degr.(BK with pre wash cold) + e-button
- j -f- normal 65 degr.(with prewash cold) + e-button
- k -g- intensive 70 degr.(with prewash 40 degr.) + e-button

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. Chancing of the program is only possible by pushing the start-button again for longer than 3 sec.

On appliances with seperate 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.

Text /Legende

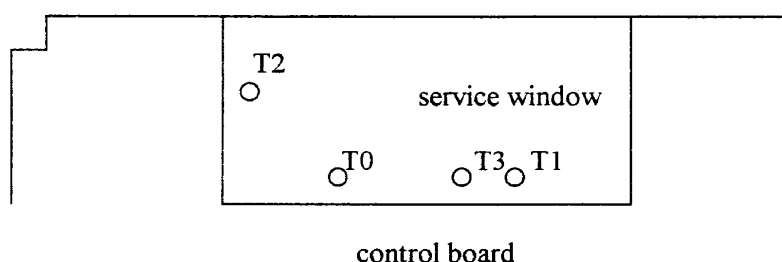
Test points on the control board for Whirlpool and Ignis appliances

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.

Test points: T0 = common line T2 = analogue value
T1 = analogue value T3 = digital signal



Check: test point T0 to T1

Communication between Control board and Display board

pushed button	voltage	from	to
all off	appr. -6,19 V (DC)	control board	display board
ZW	appr. -3,69 V (DC)	display board	control board
delay start	appr. -2,33 V (DC)	display board	control board
ZW + delay start	appr. -1,85 V (DC)	display board	control board

Check: test point T0 to T2

Communication between Control board and User board

rotary switch	voltage	from	to
progr. a	appr. -1,54 V (DC)	user board	control board
progr. b	appr. -2,06 V (DC)	user board	control board
progr. c	appr. -2,57 V (DC)	user board	control board
progr. d	appr. -3,42 V (DC)	user board	control board
progr. e	appr. -3,96 V (DC)	user board	control board
progr. f	appr. -4,47 V (DC)	user board	control board
progr. g	appr. -5,00 V (DC)	user board	control board
start button	appr. 0,00 V (DC)	user board	control board

Check: test point T0 to T3

Communication between Control board and Display Board

multiplexing appr. -3,18 V (DC)

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

Text /Legende

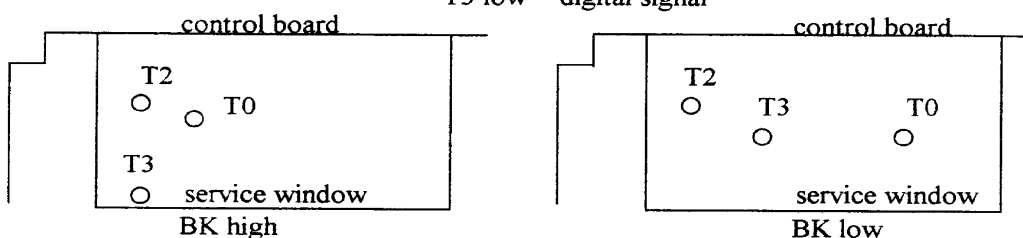
Test points on the control board for Bauknecht appliances

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.

Test points: T0 = common line T2 = analogue value T3 high = serial link
T3 low = digital signal



Check: test point T0 to T2 high range (see control board: BK-CB -H)

Communication between Control board and User board or Control- and Display board

pushed button or rotary switch	voltage	from	to
off	appr. -5,0 V (DC)	control board	user board
progr. a	appr. -1,0 V (DC)	user board	control board
progr. b	appr. -1,5 V (DC)	user board	control board
progr. c	appr. -2,0 V (DC)	user board	control board
progr. d (h)	appr. -2,5 V (DC)	user board	control board
progr. e (i)	appr. -3,0 V (DC)	user board	control board
progr. f (j)	appr. -3,5 V (DC)	user board	control board
progr. g (k)	appr. -4,0 V (DC)	user board	control board
start button	appr. -0,6 V (DC)	user board	control board
option- , gentle- or delay button	appr. -5,0 V (DC)	control board	display board

Check: test point T0 to T2 low range (see control board: BK-CB -L)

Communication between Control board and User board or Control- and Display board

pushed button or rotary switch	voltage	from	to
off	appr. -5,0 V (DC)	control board	user board
progr. a	appr. -1,0 V (DC)	user board	control board
progr. b	do not exist on low range		
progr. c	appr. -1,5 V (DC)	user board	control board
progr. d	appr. -2,0 V (DC)	user board	control board
progr. e	appr. -2,5 V (DC)	user board	control board
progr. f	appr. -3,0 V (DC)	user board	control board
progr. g	appr. -3,5 V (DC)	user board	control board
start button	appr. -0,6 V (DC)	user board	control board
eco-dry button	appr. -4,0 V (DC)	control board	display board
delay button	appr. -4,5 V (DC)	control board	display board

Check: test point T0 to T3 high range

no program running	-0,8/-1,0 V (DC)	control board	display board
program bio/eco running	-0,3/-0,8 V (DC)	control board	display board

Check: test point T0 to T3 low range

multiplex signal	-2,5 V (DC)	control board	display board
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How exact the data are, depends on the measure equipment.