



Service-Information

Geschirrspüler

ADP 995 WHM

8542 995 10410

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

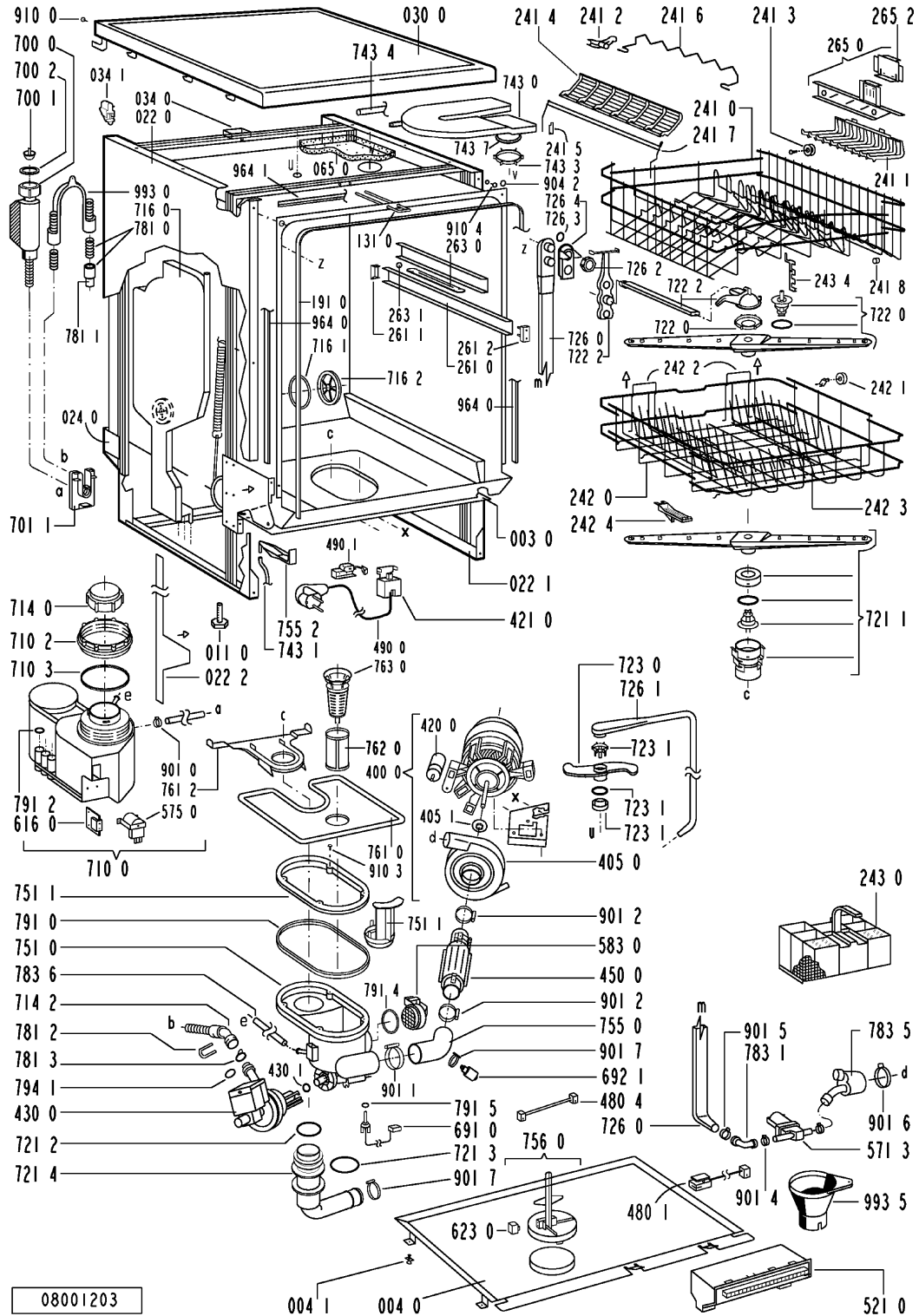
Pos-Nr.	12NC	Beschreibung
003 0	4812 440 19594	Traverse Quer Ab: 27/99
003 0	4812 440 19382	Traverse Quer
004 0	4812 440 18952	Bodenwanne
004 1	4812 401 18402	Halter Bodenwanne
011 0	4812 505 18357	Fuss kurz
022 0	4812 440 18951	Seitenwand links
022 1	4812 440 18949	Seitenwand rechts
022 2	4812 440 18953	Distanzstueck Daemmstreifen
024 0	4812 440 19463	Rueckwand Blende
030 0	4812 310 18428	Arbeitsplatte AMH4000WH
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 18784	Schutz f.Tuer (Set)
044 0	4812 492 38358	Feder f.Tuer
044 1	4812 492 38364	Feder f.Taste
047 0	4812 404 48591	Bremse Tuer
047 1	4812 401 18397	Bremsband an Tuerschar
047 2	4812 404 68023	Haken
053 0	4812 440 88887	Sockelblende o.Loeh WS
053 4	4812 440 88891	Sockelblende rund o.L. WS
065 0	4812 466 48052	Isolation
103 0	4812 440 18956	Tuer aussen SD WS
120 0	4812 440 19456	Innentuer ged. KDTL
120 1	4812 440 18969	Leiste
130 0	4812 417 58361	Kippschloss kpl. ws
131 0	4812 401 18416	Haken Verschluss
175 0	4812 310 18295	Dekorleiste links WS
175 1	4812 310 18294	Dekorleiste rechts WS
175 2	4812 310 18296	Dekorleiste unten WS
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 18914	Korb oben ger. WP
241 1	4812 458 18324	Halter Tassen rechts w
241 2	4812 535 78036	Lager Glaeserhalter ws
241 3	4812 528 88068	Korbrolle Set O-Korb (4 Rollen)
241 4	4812 458 18288	Besteckfach WS
241 5	4812 458 18921	Halter Besteckfach
241 6	4812 458 18333	Halter Glaeser links w
241 7	4812 404 48639	Buegel
241 8	4812 466 68553	Distanzstueck Set O-Ko
242 0	4812 458 18923	Korb unten kpl. 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
242 4	4812 466 48059	Anschlag Sperre mech. ws
243 0	4812 458 18272	Korb Besteck
243 4	4812 458 18317	Halterung WP-ZW

Pos-Nr.	12NC	Beschreibung
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 48637	Korbverstellung kpl. b
265 2	4812 404 48638	Griff Korbverstellg. b
301 0	4812 453 70053	Schalterleiste WS m.Multizone
303 1	4812 460 38055	Griffplatte WS
305 0	4812 440 18964	Leiste Abschluss WS
322 0	4812 453 70429	Einlage bed. WS
322 1	4812 440 19468	Aufkleber Multizone blau
331 0	4812 413 58953	Knopf Programmwahl kpl. WS
332 0	4812 410 28564	Drucktaste Kappe WS
350 0	4819 310 39832	Anzeige Elektr. (DB)
400 0	4812 361 58126	Motor +UP 220-240V/50Hz BK16
405 0	4812 360 18371	Umwaelzpumpe kpl.o.Motor
405 1	4819 515 28158	Dichtung
420 0	4812 121 18132	Kondensator Betrieb 4mF
421 0	4812 121 18161	Entstoerfilter
430 0	4812 360 18357	Laugenpumpe kpl. DOLPH
430 1	4812 466 68506	Wellendichtring KDTL
450 0	4812 259 28684	Heizelement 2100W
480 0	4812 321 28386	Kabelbaum Set (WP/IG)
480 1	4812 321 28371	Kabel WI-CB
480 2	4812 321 28383	Kabel UB-DB 6polig
480 3	4812 401 18418	Schutz f.Verdrahtung
480 4	4812 321 28387	Kabel (SENSOR)
490 0	4819 321 18136	Netzkabel 2m SA
490 1	4812 321 28367	Zugentlastung
521 0	4812 214 78273	Steuerung (CB) Sensor
531 0	4812 273 18055	Schalter Wasserhaerte
531 1	4812 273 18056	Einstellrad Wasserhaerte
571 3	4812 281 28363	Ventil f.Zone-Washing
575 0	4812 281 28361	Regeneriervent. KDTL
583 0	4812 271 28355	Schalter Membran
616 0	4812 281 18047	Reedkontakt ELSA KDTL
616 1	4812 271 58161	Reedkontakt KSMA
620 0	4812 218 38082	Eingabe Electr. (UB)
623 0	4812 271 38356	Mikroschalter Schwimmer KDTL
633 0	4812 271 38355	Mikroschalter Tuer KDT
680 0	4812 418 68155	Kombidosierung m.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
692 1	4812 209 88001	Sensor kpl. (Truebung)
700 0	4812 530 28848	Zulaufschlauch 2 Ventile 2m
700 0	4812 530 28804	Zulaufschlauch 2 Ventile 4,2m

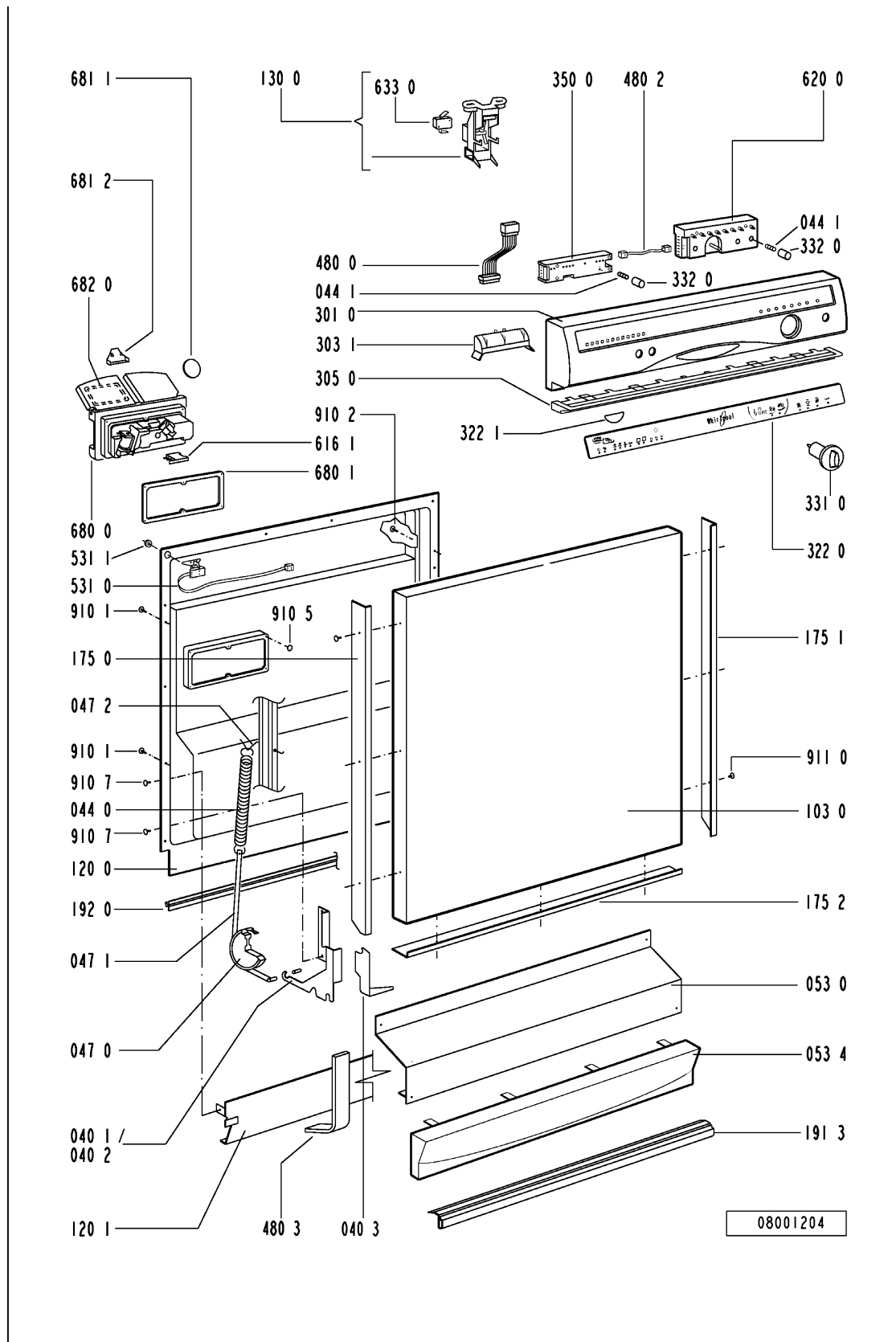
Pos-Nr.	12NC	Beschreibung
700 1	4812 480 48019	Sieb
700 2	4812 520 58002	Dichtung KDTL
701 1	4812 310 18153	Schlauchsich. Set KDTL
710 0	4812 418 68151	Monoblock kpl. el.Anz.
710 2	4819 310 38536	Gewinding grau
710 3	4819 466 69562	Dichtung KDTL
714 0	4812 462 78993	Verschlusskappe o.Anzeige
714 2	4812 440 18963	Gehaeuse Rueckschlagkappe
716 0	4812 418 68147	Regenerierdos. m.WE
716 1	4812 466 68475	Dichtung Regenerierdos.
716 2	4812 462 78994	Abdeckung Regenerierdos. gr.10809
721 1	4812 360 68061	Sprueharm unten kpl. 2-armig
721 2	4812 466 68491	Dichtung 25x2,3B
721 3	4812 466 68558	Dichtung 30x3,0
721 4	4812 440 19455	Flansch Anschluss
722 0	4812 360 68044	Sprueharm oben kpl.
722 2	4812 360 68056	Nabe Sprueharm ob./ger.kpl.
723 0	4812 360 68049	Sprueharm Decke
723 1	4819 310 39831	Kit Verschraubung
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./Luftfu
743 4	4812 530 28807	Schlauch Zufuhr 9x1,5x270+10
743 7	4812 466 68514	Dichtung
751 0	4812 418 18205	Ablaufschacht
751 1	4819 310 39826	Wasserfuehrung Service Kit
755 0	4812 530 28868	Kruemmer (SENSOR)
755 2	4812 530 48148	Auffangschale
756 0	4812 360 58099	Schwimmer
761 0	4812 480 58082	Sieb fein Niro
761 2	4812 418 18204	Abdeckung Sieb
762 0	4812 480 58084	Mikrofilter
763 0	4812 480 58083	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 1	4812 530 28806	Schlauch Verbindung
783 5	4812 530 28851	Verteiler Schlauch+ZW
783 6	4812 530 28796	Schlauch 10x3x180+10
791 0	4812 532 68067	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
794 1	4819 530 58032	Dichtung 20x2,5

Pos-Nr.	12NC	Beschreibung
901 0	4822 401 10492	Schlauchschele 14-24 mm
901 1	4812 401 18424	Schelle 050,0
901 2	4812 401 18157	Schlauchschele 32-50/9 C61
901 4	4812 401 18426	Schelle 025,6
901 5	4812 401 48573	Schelle 028,6
901 6	4812 401 48574	Schelle 038,1
901 7	4812 401 18427	Schelle 031,6
904 2	4812 462 79635	Abdeckung WS 3,5x5
910 0	4812 502 18384	Schraube A2F 4x35-H
910 1	4812 502 18394	Schraube 3,5x17-H
910 2	4812 502 18363	Schraube 4,0x12-H
910 3	4812 502 18389	Schraube 5x20 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
911 0	4812 502 38134	Schraube Dekor ST3,5x9,5-C-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 5	4822 532 80216	Fuelltrichter Salz

Explosionszeichnung



Explosionszeichnung



Text /Legende

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 /Legende

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 sensorprogram 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
- Optoelectrical 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
- F2. water leakage
- water is in the drip tray
floater (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 /Legende

- 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
- 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 /Legende

Appliances FAILURE AND ALARM DISPLAYING CODES

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

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

Text /Legende

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

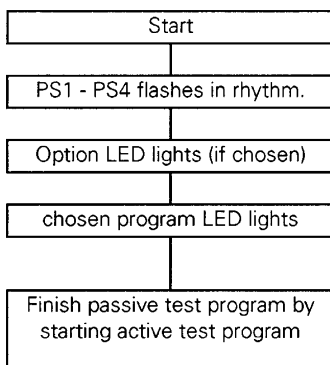
Attention:
If you can't start the active test program (Start button don't flash), normally there is one of the following failures detected: F1, F2 or F9

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.

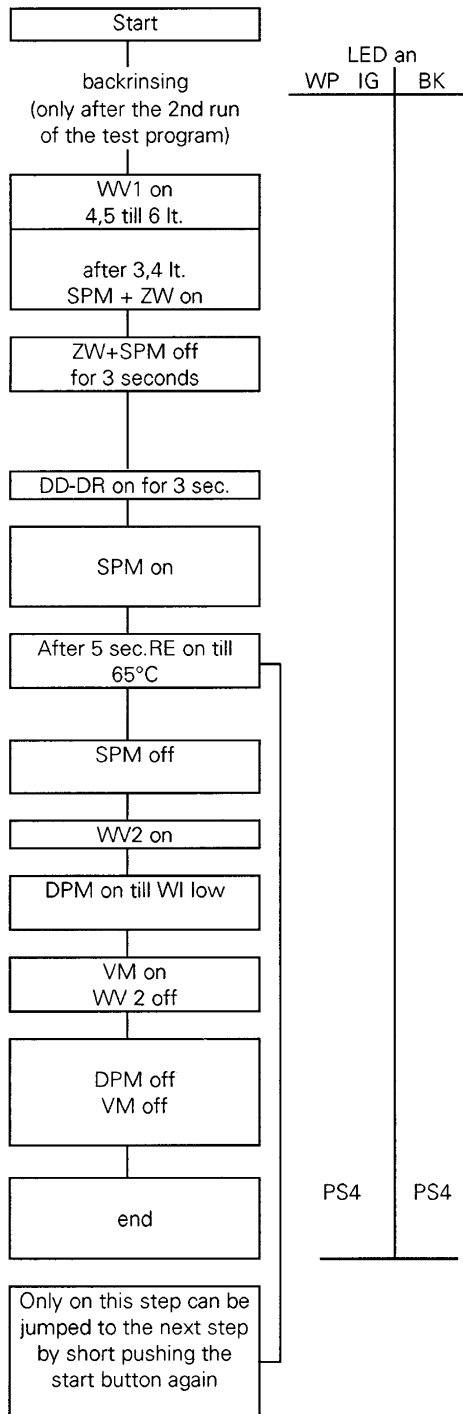
Active test program starts (see next page)

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 /Legende

Active test program



Test procedure

1. Passive test program OK?
no: repair failure, after that solve the failure and start the passive test program again.
yes: push start button shorter than 3 second's
2. 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.

To leave the test program push the start button for longer than 3 second's.

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 a not stable SPM pressure.

Appliances which have no program sequence or no 7-segment-display can't exactly 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 or by connecting an additional kit 4819 310 39782 on the user board (UB) (connector DISPL).

When the failure position is reached the flashing start LED goes out.

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.

Remarks:
ZW on: zone wash valve on = no water on the upper sprayarm.
ZW off: zone wash valve off = water on the upper sprayarm.

Text /Legende

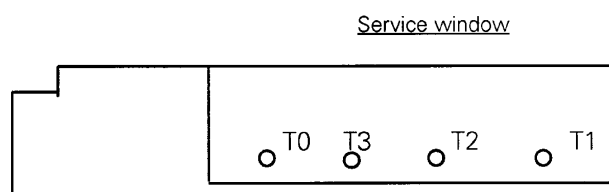
Testpoints on the control board (CB)

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



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.

Text /Legende

3. TEST DES LIAISONS ENTRE LA PLATINE DE PROGRAMMATION (UB) ET LA PLATINE DE CONTROLE (CB)

Test pour la vérification de la touche Départ. **Sélectionner** auparavant n'importe quel **programme**.

Test entre T0 et T3	
Touche Départ	Tensions
Avant sélection (led Départ off)	- 5,24 V DC
Après sélection (led Départ on)	- 3,87 V DC

Attention : La précision des mesures dépend entièrement de l'appareil de mesure utilisé, c'est pourquoi nous vous conseillons un appareil à haute impédance interne.