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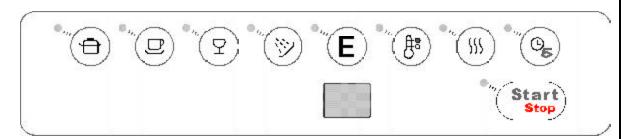
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D1876 DISHWASHER (DW954)

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PROGRAMS

PROGRAM DEFINITION

Pots and pans/Sani Two prewashes, main wash, three rinses* and drying.

Normal Two prewashes, main wash, two rinses* and drying.

Quick Main wash, two rinses, heated drying.

Rinse One rinse at 131°F (55°C). If Heat fan dry is selected, the heating

element will activate. Drying: 158°F (70°C)

* The Pots and Pans/Sani and Normal programs can be programmed for an extra rinse (see page 3). In that case, the temperatures for the next-to-last rinse would be the household water temperature and the final rinse would be the last rinse temperature indicated in the table below.

OPTIONS

Temperature Lets you select high or low water temperatures for the wash programs (except

Rinse). (See the table below.) The indicator light glows red when it's on the High

setting and remains off when set on Low.

Heat Fan Dry Pressing this touchpad activates the heating element along with the turbo fan for

12 minutes after the final rinse. (158° F/70° C)

Time Delay Press this touchpad to delay starting the unit for five hours.

Start/Stop Press this touchpad to Start or Stop the machine. To interrupt a program, hold this

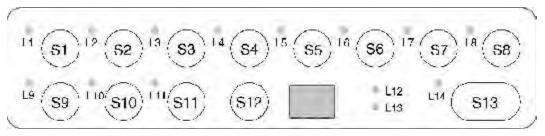
touchpad down for three seconds.

WASH PROGRAM TEMPERATURES

Wash Program	Temp	1st Prewash	2nd Prewash	Main Wash	1st Rinse	2nd Rinse	3rd Rinse
Pots & Pans/Sani	Low	113°F (45°C)	House	131°F (55°C)	House	House	131°F (55°C)
	High	113°F (45°C)	House	158°F (70°C)	House	House	149°F (65°C)
Normal	Low	86°F (30°C)	House	131°F (55°C)	House	131°F (55°C)	n/a
	High	86°F (°30C)	House	149°F (65°C)	House	149°F (65°C)	n/a
Quick	Low	House	n/a	113°F (45°C)	House	113°F (45°C)	n/a
	High	House	n/a	131°F (55°C)	House	131°F (55°C)	n/a



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S = Pushbutton switch

L = Indicator light

EXTENDING FAN COOLING TIME

To extend the fan cooling time, press S1 five times then press one of the following:

S5 for 30 extra minutes

\$4 for normal fan cooling time

SETTING AN EXTRA RINSE

To add an extra rinse to the Pots and Pans and Normal wash programs, **press S2 five times then press** one of the following:

S5 for an extra rinse

S4 for the normal number of rinses

SETTING CHILD-SAFE START FUNCTION

The start function can be reprogrammed so that the button must be pressed in for 3 seconds to start the programs. To do this, **press S4 five times then press** one of the following:

\$5 to get a prolonged start function or

\$4 to get a normal start function.

SETTING PUMP-OUT TIME

If it's necessary to reprogram the pump-out time, you can do so by **pressing S3 five times then pressing** one of the following:

Press:	to get an outlet time of:
S3	20 seconds
S4	25 seconds (factory setting)
S5	35 seconds
S6	45 seconds
S 7	85 seconds

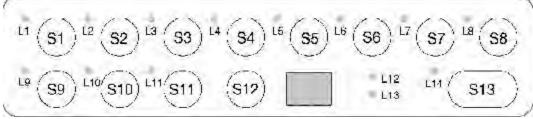
SETTING INLET TIME

You can reprogram the inlet time on level controlled and time controlled inlets. To do this, **press S5 five times then press** one of the following:

Press:	to get an inlet time of:
S3	45 seconds (factory setting)
S4	56 seconds
S 5	68 seconds
S6	90 seconds
S7	113 seconds
S8	180 seconds







S = Pushbutton switch

L = Indicator light

FAULT CODES

Blinking lights and an F-code in the LED window indicate a machine fault.

Code	Blinking Lights	Problem
F1	L3 and L7	Heating element
F2	L1-L8	Overfill
F3	L4 and L5	Thermistor fault (heater control)
F4	L1-L4	Water inlet

FAULT-TRACING PROGRAM

The functions of the electrical components can be tested by **pressing S6 five times then pressing** one of the following:

Press	to test
S3	inlet valve 1
S4	combi-dispenser
S5	heating element
S6	circulation pump
S7	outlet pump
S8	fan motor and wax motor

Stop the fault-tracing program by pressing S13.

LINKS ON THE PROCESSOR BOARD

(for program variations)

These diodes should be cut for proper U.S.iInstallation:

Link USA: USA processor board layout



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CONTROL PANEL (see page 15)

The control panel contains a microprocessor for control of programs, circulation pump, inlet valves, etc. It also allows for custom settings of programs (see page 3).

CIRCULATION PUMP/MOTOR (see page 17)

The circulation pump/motor consists of a synchronous motor and pump, constructed in an integrated unit. A 16 μ F capacitor is fitted to the circulation motor/pump.

OUTLET PUMP (see page 17)

The outlet pump consists of a synchronous motor and pump, constructed in an integrated unit.

INLET VALVE (see page 17)

A single-unit type: A solenoid and valve seat.

HEATING ELEMENT (see page 11)

1400 Watt

THERMISTOR (see page 11)

The thermistor controls the water temperature within +/-1°C (2.5°F) to give the required temperature. The heater will be disconnected if the thermistor is short-circuited or loosened from the circuit board and the fault code "F3" displays in the LED window. The normal resistance of the thermistor is between 25 and 15K ohm at 68°F (20°C) or 86°F (30°C) alternately.

OVERHEAT PROTECTION (see page 11)

The thermostat has a switch-off function at 190° F (88°C) that prevents the heating element from staying on if the control unit or the timer should fail.

DOOR SWITCH (see page 17)

A microswitch senses that the door has been opened. This interrupts the program and cuts the power to all control components (motor, valves, etc.).

LEVEL SWITCH (PRESSURE SWITCH) (see page 11)

This switch protects against overfilling by interrupting the power to the inlet valve and starting the outlet pump. If the water level has not dropped within 30 seconds or if overfill has occurred twice during the same program, the program will be terminated and a fault code displays. The overfill protection operates during all programs, including fault-tracing, even if the microprocessor is faulty.

OVERFILL SWITCH (see page 11)

A float in the base pan influences a microswitch that disconnects the inlet valve and starts the outlet pump.

COMBI-DISPENSER (see page 13)

The combi-dispenser dispenses both detergent and rinse aid. The dispenser has an adjustable volume chamber for setting the desired amount of rinse aid.

TURBO FAN (see page 13)

The turbo fan evacuates the moist air from the machine during the drying phase of the program. The fan system consists of a fan motor that runs a two-part impeller. Dry, cool air is pulled in from the door into one of the impeller halves. A wax motor opens a damper and the moist air is pulled into the other part of the impeller. The dry, cool air and warm, moist air mix and condense in the condensation chamber. The condensed moisture then drains through the channel to the lower sump area. Dry air is then vented out through a channel below the outer door.



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ELECTRICAL SUPPLY

The machines are wired for connection to a single-phase, 120V, 15A supply, with a heater power of 1400W, giving a total power requirement of 1600W.

VALUES FOR WIRING DIAGRAMS

Resistance values at 68° F (+/-5°F), 20° C (+/-3°C) (Values within +/- 10% is normal.)

AP Drain pump 120V, 60 Hz, 25.5 ohm

BB Illumination switch

CP Main pump 120 V, 60 Hz, Main = 10.5 ohm, Aux = 14.5 ohm

KD Combi-dispenser 120 V, 0.31 ohm

EL Heating element 120 V, 1400 W, 10 ohm

V Inlet valve 120 V, 9.93 K ohm (1-3, 2-4)

FL Fan 120 V, 0.25 K ohm

LB Door switch

LU Door

N Level switch

P Control unit

R Relay 230 V Eberle, 0.59 K ohm

T Thermostat 19–25 K ohm

TB Pushbutton switch

TTE Temp. thermistor 19–25 K ohm

WAX Wax motor 1.5–3.0 K ohm

OB Overflow switch



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The lists below define the meanings of the dashed numbers or letters following a part number:

Colors:

- -0 White
- -29 Black, bright
- -33 Black
- -36 Dark grey
- -49 Helios grey
- -69 black, metallic
- -77 grey
- -81 metallic
- -95 Stainless Steel

Note: Not all colors are available for all parts.

Doors

- -M for units with fan
- -P for integrated units
- -R for decor frames, long devision
- -S for decor frames, short devision
- -T for decor frames with adjustable lower part



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				(DVV 954)	
	Date)0-06		CASING AND RELATED PARTS		Page 9
Fig.	Qty	Part No.	Description	Notes	
1 2 3 4 5	1 1 1 4 1 1	80 583 53 80 600 41 80 575 26 89 003 52 80 707 43 80 597 58- 89 009 44-	Sound insulation Sound insulation profile Guard plate Screw Felt, kick plate Kick plate Screw, kick plate	RTS ST 4.2x13 -0, -29, -81 -0, -29, -81	
6	1	80 706 15	Sealing strip	-0, -29, -01	
7 8	1 2 4 1	80 571 00- 89 003 52 80 097 69- 80 706 12	Lower cover Screw Plug for decorframe Sound insulation	-S-0, -S-29, -95 RTS ST 4.2x13 -0, -33	
9 10 11	1 2 2 2	80 584 86 80 575 49 80 575 50 89 003 27	Drip protection for guard plate Bracket, kick plate Spring, kick plate Screw	RTS ST 4.2x13 FZB T20	



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	Ooto			(DVV 934)	-
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Fig.	Qty	Part No.	Description	Notes	
Fig. 2 3 4 5 6 7 8 9 10 11 12 14 15 16 17	Qty 1 1 1 2 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	80 706 13 80 574 89 88 010 98 80 579 78- 80 586 38- 80 579 77 80 579 79- 80 570 52 80 600 33 89 011 10 80 570 77 80 602 58 80 023 70 80 584 95 80 701 42 80 025 79	Sealing strip, casing top Tub seal Lock catch compl. Ball catch Ball bearing holder, guide rail Ball bearings Basket stop Guide rail Sound insulation Screw + O-ring Heating element Cable holder Protection collar, heating Cable holder Thermostat	-77 -77 -77 A2-M6x12 T30 1400 W 120 V For heating	
18	1 1 4 2 2	80 597 61- 80 597 62- 89 006 46 89 003 52 80 706 14	Strip side, left Strip side, right Screw Screw Sealing strip	-0, -29, -95 -0, -29, -95 A4 RTS 4.2x13 T20 RTS ST 4.2x13	
19 20 21 22 23 24 25 26	1 2 2 1 2 1 1 1 1 1 1	80 575 23 89 011 04 80 584 91- 80 704 95 89 003 27 80 602 55 80 599 91 80 069 48 80 585 58 80 502 51 89 003 57 89 021 31 89 014 13	Bottom outer Screw, casing - bottom Door springs compl. Mount, inlet valve Screw Mount, electrical connection Cable holder Grommet RFI filter Terminal block Screw, terminal block Screw, grounding terminal bl. Washer	A2-MRT-TT 4x8 T20 -77 RTS ST 4.2 x 13 FZB T20 3-pole RTS ST 4.2x25 FZB T20 MRT-TT 4x6 FZB T20 AZ 4,3 FZB	
27 28 29 30	4 4 2 2	80 721 19 80 570 62 89 011 56 80 519 57	Reinforcement washer Leveling leg Nut Slide foot, rear only	M10x100, 8.8 FZB M6M10 BH8 FZB	



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_			T =	T., .	
Fig.	Qty	Part No.	Description	Notes	
1	1	80 527 78	Wax motor		
2	1	80 585 01	O-ring		
3	1	80 600 21	Fan, compl.		
4 5	1	80 579 63- 80 727 29-	Air channel, turbo dry	-S -0, -33	
l °	'	60 <i>121</i> 29-	Nozzle, air channel	-0, -33	
6	1	88 011 18	Inner door compl.		
	4	89 021 20	Screw	A2-MKFT 5x10-TT FZB	
7	1	80 579 64	Lock ring, fan casing		
8	1 2	80 584 84 89 020 85	Cover plate, fan Screw, fan cover plate	A2-PTK 40x10 WN1452	
9	1	80 706 80-	Combi-dispenser	-77	
`	6	89 020 87	Screw	PTK 40x14 WN1452 FZB	
	1	80 719 17	Rinse aid cap		
1	1	80 719 18	Combi-dispenser lid	Incl. seal and spring	
10	1	80 575 25	Hinge, left		
۱ '°	1	80 575 25 80 575 24	Hinge, right		
	2	80 575 30	Hinge screw		
	2	33500262	Nut, hinge bearing, locking	4 BH8 FZB	
11	2	80 579 48	Slide washer, hinge bearing		
12	1	80 715 87 89 021 31	Holder, cable harness Screw, cable harness holder	MRT-TT 4x6 FZB T20	
13	1	80 584 87	Stay, air channel	MR1-11 4X0 F2B 120	
14	1	80 579 85	Brace stand		
	2	89 006 46	Screw, lower stay	A4 RTS 4.2x13 T20	
15	1	80 602 54	Door seal lower	L=555 mm	
16 17	1	80 702 94	Sound insulation	6.0.000.05	
11	1 6	80 579 86- 89 006 46	Door outer part Screw	-S-0, -S-29, -95 A4 RTS 4.2x13 T20	
	2	89 003 27	Screw	RTS ST 4.2x13 FZB T20	
	2	80 561 17-	Screw	-29	
	6	80 097 69-	Plug for decor frame	-33	
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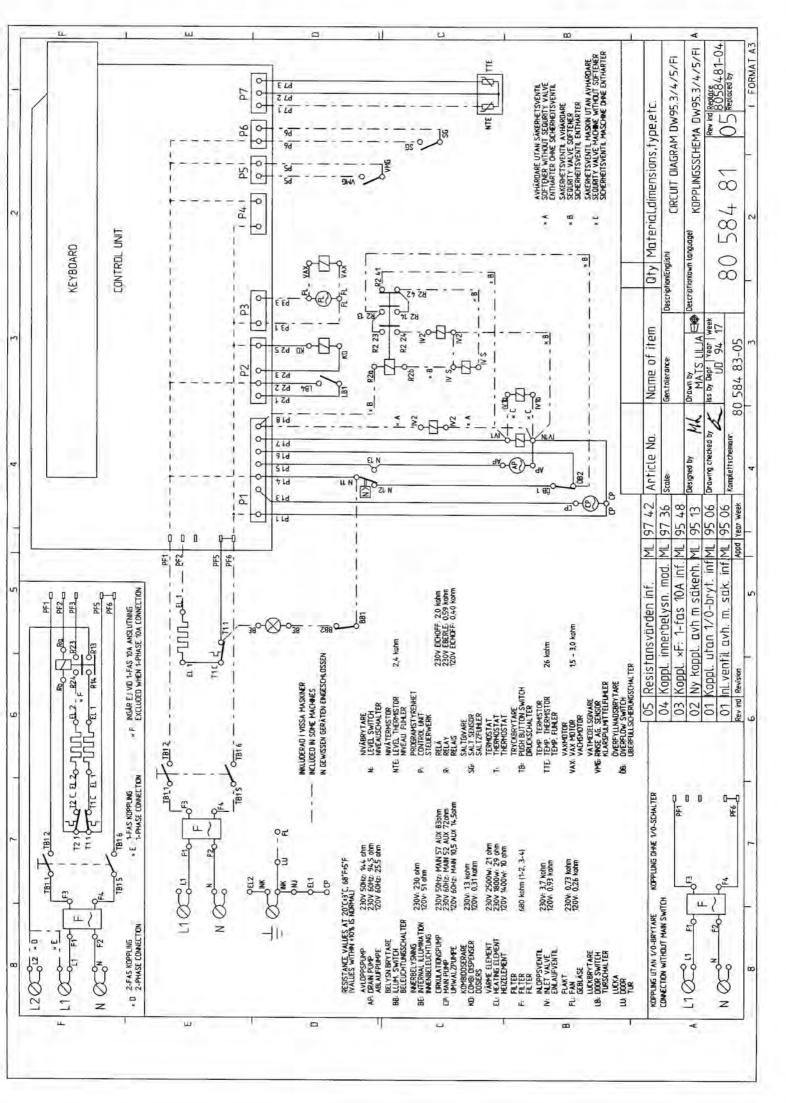
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Fig.	Qty	Part No.	Description	Notes	
1 2 3	1 1 1	80 575 41- 80 575 45 80 575 46	Handle Safety catch Spring, safety catch	-0, -33, -81	
6 7 8	1 1 2 2 1 1 1	80 575 44 80 575 39 89 020 85 89 020 87 80 710 98 80 554 73 80 575 42	Control arm, safety catch Holder, handle assembly Screw Screw Cover, microswitch Microswitch Control pin, microswitch	A2-PTK 40x10 WN1452 PTK 40x14 WN1452 FZB	
9 10 11 12	1 1 1 1 1	80 070 78 80 575 37- 80 575 38- 89 020 92 80 734 08-	Spring, handle Front panel Backing for decor plate Screw Decor insert	-0, -69, -81 -0, -69, -81 PTK 40x25 WN1452 FZB -0, -33, -81	
13 14 15	1 1 2 1	80 600 76 88 012 01 89 020 53 80 597 67	Contact cover Control unit Screw Thermistor	PTK 40x45/15 FZB T20	
16	1	80 734 52 80 730 96	Cable harness complete Use and Care Guide		

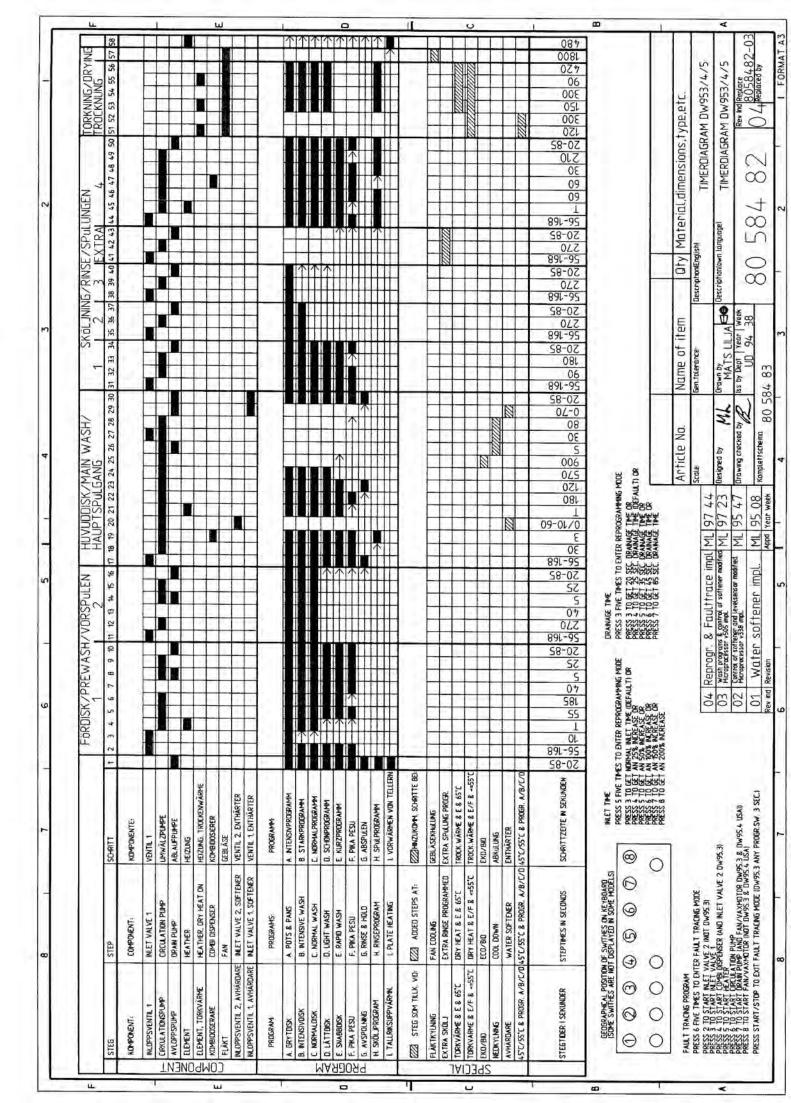


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Fig.	Qty	Part No.	Description	Notes	
l ,	1	00 712 27	Cup shelf wine glasses	-36	
2	1	80 713 37- 80 011 99-	Cup shelf, wine glasses Upper basket, w/wheels *	-36, with cup shelf	
3	1	80 713 36-	Cup shelf	-36	
ľ	•	00 7 13 30-	oup shell	-50	
4	1	80 575 36-	Lock ring, air break	-77	
5	1	80 585 04	O-ring, inlet air break		
6	1	80 575 14	Air break		
7	1	80 597 40	Strainer, upper part		
8	4	80 584 98-	Basket wheel, upper	- 77	
9	1	80 575 06-	Knife stop, upper basket	-77 	
10	2	80 712 14-	Knifestand, upper basket Cutlery basket	-77 -77	
111	1	88 010 89- 88 012 00-	Lower basket	-77 -36	
12	8	80 095 16-	Basket wheel, lower	-77	
13	1	80 584 93-	Lower basket insert	-36	
'	-				
14	1	80 703 04	Outlet hose		
15	1	80 726 95	Spray arm, upper		
16	2	89 012 62	Nut, spray arm bearing		
17	2	80 520 95	Washer, spray arm bearing		
18	2	80 570 70-	Spray arm bearing	- 7 7	
19	1	80 570 68-	Spray pipe bearing, upper	-77	
20 21	1 2	80 570 63	Spray pipe	47.0.706	
22	1	80 521 89 80 585 02	Hose clip, inlet valve Rubber hose, inlet valve	17.0-706	
23	1	80 721 21	Inlet valve		
~	2	89 020 87	Screw	PTK 40x14 WN1452 FZB	
	_	00 020 0.		11111001111111102125	
24	1	80 726 92	Spray arm, lower		
25	1	80 570 67-	Spray pipe bearing, lower	-77	
26	1	89 017 55	O-ring, lower spray pipe bearing		
27	1	80 570 69	Nut, spray pipe bearing		
28	2	80 574 84	Hose, circulation pump		
29	4	80 520 97	Hose clip, circ. pump hose	44.0-708	
30	1	80 550 95	Rubber buffer, circ. pump		
31	1	80 710 24	Level switch (pressure)		
32	1	80 570 53	Float, base pan		
33	1	80 600 68	Microswitch float		
34	1	80 585 00	Rubber hose	5x8x340	
35	1	88 011 23-	Bottom well, sump	-77	
36	1	80 585 03	O-ring, bottom well, sump	109.5x3	
37	1	80 574 87-	Cover plate	-33	
38	1	80 025 84	O-ring, outlet pump	49.5x3	
39	4	90 720 22	Outlet nump		
40	1 1	80 720 32 80 522 39	Outlet pump Hose clip	31.6-708	
41	1	80 574 88	Lock ring, bottom well, sump	01.0-100 	
42	1	80 584 54	Cover plate		
43	1	80 579 72-	Filter basket, coarse	-77	
44	1	80 574 86-	Insert, filter basket	-77	
45	1	80 712 50	Circulation pump		
			*When ordering an upper basket, you also (see Figure 9).	need to order the knife stop and knife star	nd







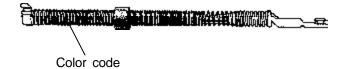
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TOPIC: DOOR SPRINGS

There are three different sets of door springs, as defined below:

Part Number	Machine	Weight Capacity	Color Coding
80 584 91-77	For all standard machines	9 lbs.	none
80 602 32-77	For integrated and fully-integrated machines	12 lbs.	yellow
80 713 23-77	Heavy-duty for wooden panels, available as accessory part	22 lbs.	red



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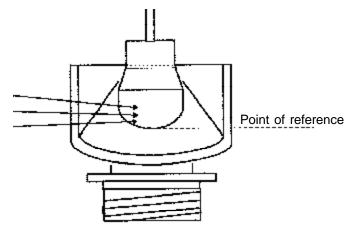
TOPIC: WATER LEVEL

Switch level transferred to measuring points on the coil arm bearing.

Timer-controlled machines

Water flow inlet valve = 3.8 +/- 5% ltr / min Intake time = 60 seconds

Max. tol. 3.8 - 5% = 3.9 ltr +1 mm

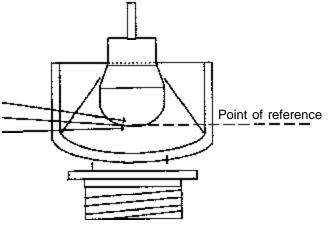


Electronic machines

Water flow inlet valve = 3.8 +/- 5% ltr / min

Intake time = 57 seconds

Max. tol.
$$3.8 + 5\% = 3.7$$
 ltr +1 mm = Max. tol. $3.8 + / - 5\% = 3.51$ ltr +0 mm = Max. tol. $3.8 - 5\% = 3.3$ ltr -1 mm =



Note: Start with dry bottom well, which gives a 2mm lower level.

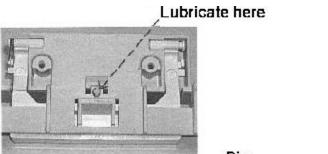


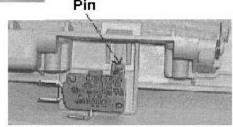
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TOPIC: GUIDE PIN FOR DOOR LOCK

Occassionally, the guide pin for the door lock may freeze or become stuck, causing the machine not to stop when the door is opened. To prevent this, you can lubricate the guide pin with petroleum jelly.







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TOPIC: CONTROL UNIT FAILURE ANALYSIS

To prevent repeated exchanges of control units due to failures in auxiliary components (circulation pumps, inlet valves, etc.), a simple check on the control unit should be done to determine what cause the failure.

If any of the control unit components listed below or the conductive pattern (copper foil on the soldering side) near these components are damaged, most likely the external component caused the failure and should be ohm-measured. In the case of short-circuits, the components should be exchanged along with the control unit.

External Component Associated Output Components

Heater K1, PF2
Drain pump K2, P1 5
Circulation pump K3, P1 3

Inlet valve 1 Q13, R36, R52, D22, D24, P1 7
Inlet valve 2 Q6, R43, R55, D26, D27, P1 8
Combi-dispenser Q12, R50, R58, D21, D23, P2 3
Fan and wax motor Q16, R46, R56, D18, D19, P3 3

Interior light P4 3 (after 9740, the lamp is not connected to the control unit.)

K=Relay Q=Triac R=Resistor D=Diode P=Connector

Note: Once the was motor has dried out, it is not possible to measure for faults. Remove the wax

motor and check for burn marks. For complete certainty, replace the wax motor.



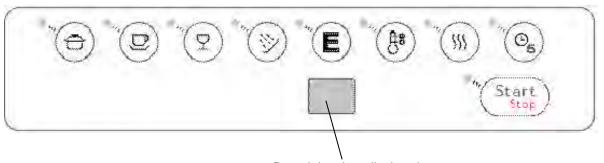
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TOPIC: REMAINING TIME INDICATION

Dishwashers with an LED window show how much time remains for the program to run. This is calculated on the assumption that the incoming water is at a temperature of 141°F (60°C).

If the machine is connected to a cold water supply, the time display for the remaining time will be incorrect the first time each program is run. On subsequent runs of the respective programs, the machine will calculate the time based on how long the program took on the previous run.



Remaining time displays in the LED window.