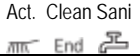


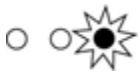










Function	Actuation	Display	Remark
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Fault group		In the test programme		At the customer		Appliance behaviour if fault occurs	Results of the internal appliance test	Measures
		LED's	Display	LED	Display			
		Act. Clean Sani 						
			E:00				<i>Not a fault</i>	
Power module			E:01		E:01	→ End of programme	Pump actuation or pump switchover defective.	Replace power module.
			E:02		E:02	Operation without heater.	Working relay for heater defective.	
			E:03		E:03	→ End of programme	Working relay/safety relay for heater defective.	
			E:04			Reserved		
			E:05		E:05	Programme stopped with draining, water switch run continuously.	Triac for water switch motor defective.	
Door			E:06		E:06	Stop in current position, no appliance function possible.	Hall sensor defective, cable interrupted or power module defective.	Power module in working order if supply voltage is already at the removed Hall sensor plug. Otherwise change Hall sensor.















Document No. 5600 00000157007 ASP EN D	Rev. D	Sheet-No. 1 of 4
Material No. 9000 361 479		

Function	Actuation	Display	Remark
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Fault group		In the test programme		At the customer		Appliance behaviour if fault occurs	Results of the internal appliance test	Measures
		LED's	Display	LED	Display			
		Act. Clean Sani  End 						
Heating		E:07				Operation without auxiliary drying system.	Heating circuit interrupted, fan defective, auxiliary electronics defective, cables interrupted.	Test components (applies to appliances with auxiliary drying system only).
		E:08				Operation without heater	Circulation pump detects too low water level in pump sump.	Start test programme, check filling. Leaks? Bowls/pans overturned in the appliance?
		E:09		E:09			Heating circuit interrupted (resistor, supply cables, contacts of the safety relay on power module).	Measure heating resistors. Check cables.
		E:10				Heat emission too low, deposits on heater.	Test water hardness; if required, descale/clean. If repeated, replace heat pump.	
		E:11		E:11		NTC fault Fault in supply cable NTCs.	Measure NTCs. Check cables.	
		E:12				Reserved		
		E:13				Water temperature too high (> 75 °C)	Protective measure – not a fault, check water supply temperature.	







Document No. 5600 00000157007 ASP EN D	Rev. D	Sheet-No. 2 of 4
Material No. 9000 361 479		

Function	Actuation	Display	Remark
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Fault group		In the test programme		At the customer		Appliance behaviour if fault occurs	Results of the internal appliance test	Measures
		LED's	Display	LED	Display			
		Act. Clean Sani  End 						
Fill		  	E:14		E:14	Programme stopped with draining	No impulses from flow sensor, although water detected by circulation pump.	Check cables, test flow sensor (reed switch).
			E:15		E:15	Programme stopped with intermittent pumping	Base pan safety switch active. Appliance cannot be switched off.	Search for cause of water in the base pan.
			E:16		E:16			
			E:17		E:17	Programme stopped with draining	Water supply rate too high according to flow sensor.	Check flow controller in the filling valve.
			E:18			Wait for supply; programme stopped with draining	Water supply rate too low according to flow sensor or no water supply.	Check water supply.
Circulation pump		  	E:19				Reserved	
			E:20		E:20	→ End of programme	Resistance values of circulation pump wrong.	Check cables, measure windings.
			E:21		E:21	→ End of programme	Circulation pump blocked	Check for foreign objects, if required replace.

Document No. 5600 00000157007 ASP EN D	Rev. D	Sheet-No. 3 of 4
Material No. 9000 361 479		

Function	Actuation	Display	Remark
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Fault group		In the test programme		At the customer		Appliance behaviour if fault occurs	Results of the internal appliance test	Measures
		LED's	Display	LED	Display			
		Act. Clean Sani 						
Detergent-solution pump			E:22				Reserved	
			E:23		E:23	→ End of programme	Resistance values of drain pump wrong.	Measure windings, check cables.
			E:24		E:24	→ End of programme	Draining not possible. Missing cover?	Check water drainage (hose kinked, blocked, delivery head, pump cover). Attach cover.
			E:25		E:25	→ End of programme	Drain pump blocked; perhaps missing cover.	Check for foreign objects. Attach cover.
Water points			E:26			Water points actuated continuously	No impulses from water points despite actuation.	Check the line. Measure mains voltage on the motor. Test water points switch.
			E:27				Reserved	
AquaSensor			E:28			Operation without AquaSensor	Calibration of AquaSensor not successful.	Check cables. AquaSensor dirty. AquaSensor available as standard for this appliance?
In-house			E:29				Reserved	
			E:30			Normal operation	Overvoltage	Not relevant to customer service
			E:31				Circulation pump overloaded	Not relevant to customer service
			E:32				Drain pump overloaded	Not relevant to customer service

Function	Actuation	Display	Remark
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		Display	Can be skipped?	Time (s)	Value	Check Measure	Remark
Preparation						Remove approx. 0.5 l water from salt dispenser.	Regeneration valve must be checked for leaks at appropriate customer specifications (see also steps with display S:11 + S:33).
CoilCheck		S:00	No	approx. 20			Check the drain pump. Activate the drain pump and place the water switch in the top basket position.
Check flow sensor and flow controller		S:01 – S:03 (Step S:04 to S:06 are displayed only if error occurs E 18)	No	approx. 10 – 100			Add 50 ml (filling valve, drainage pump and circulation pump are activated in succession).
Pause		S:07 (Step is not displayed)	Yes	10			
Fill + pump		S:08 – S:10	No	approx. 100			Heat exchanger is overfilled, residual quantity in the pump sump is pumped off ==> heat exchanger full (contains 3.1 l water).
Pause		S 11	Yes	10		Visual inspection: water level in salt dispenser.	No change to water level ==> Regeneration valve leakproof.
Fill		S 12	No	approx. 36	1.5 l		All the water is conveyed to the pump sump via the heat exchanger.

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Material No. 9000 365 066	GV640 Zeolith WT	

Function	Actuation	Display	Remark
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		Display	Can be skipped?	Time (s)	Value	Check Measure	Remark
Pause		S 13	Yes	10		Visual inspection: water level in appliance.	Water level on upper edge of fine mesh filter (= 1.5 l in pump sump).
Fill		S:14 – S:15	No	approx. 60	2.5 l		Total: 4 l in appliance
Circulate		S 16	Yes	15			Circulation pump must not “snorkel”.
Dispense (detergent)		S 17	Yes	10			
Circulate + heat + calibrate AquaSensor		S:18 – S:19	No	110			
Zeolith fan + heater + circulate		S:20 – S:21	No	1200			During Zeolith heating approx. +1 °C/min temperature increase.
Pause + fan		S 22	Yes	20			Fan runs on for 60 seconds.
Circulate + dispense (rinse aid)		S:23 – S:25	Yes	65			Number of impulses = set value of dispensed rinse aid.
Circulate + heat + change position of water switch		S:26 – S:27	Yes	approx. 480	65 °C		During heating +2.5 °C/min. Change every 30 s roof shower head, top basket, bottom basket.
Pump off		S 28	No	45			
Drain heat exchanger		S 29	Yes	60			Check outlet valve
Pause		S 30	Yes	10		Visual inspection: water level in appliance.	Water level must be over handle of coarse filter..
Pump off + drain heat exchanger + fill + regenerate		S:31 – S:33	No	approx. 20			Drain the complete appliance.








Document No. 56000000162698 ASP DE B	Rev. B	Sheet-No. 2 of 3
Material No. 9000 365 066	GV640 Zeolith WT	

Function	Actuation	Display	Remark
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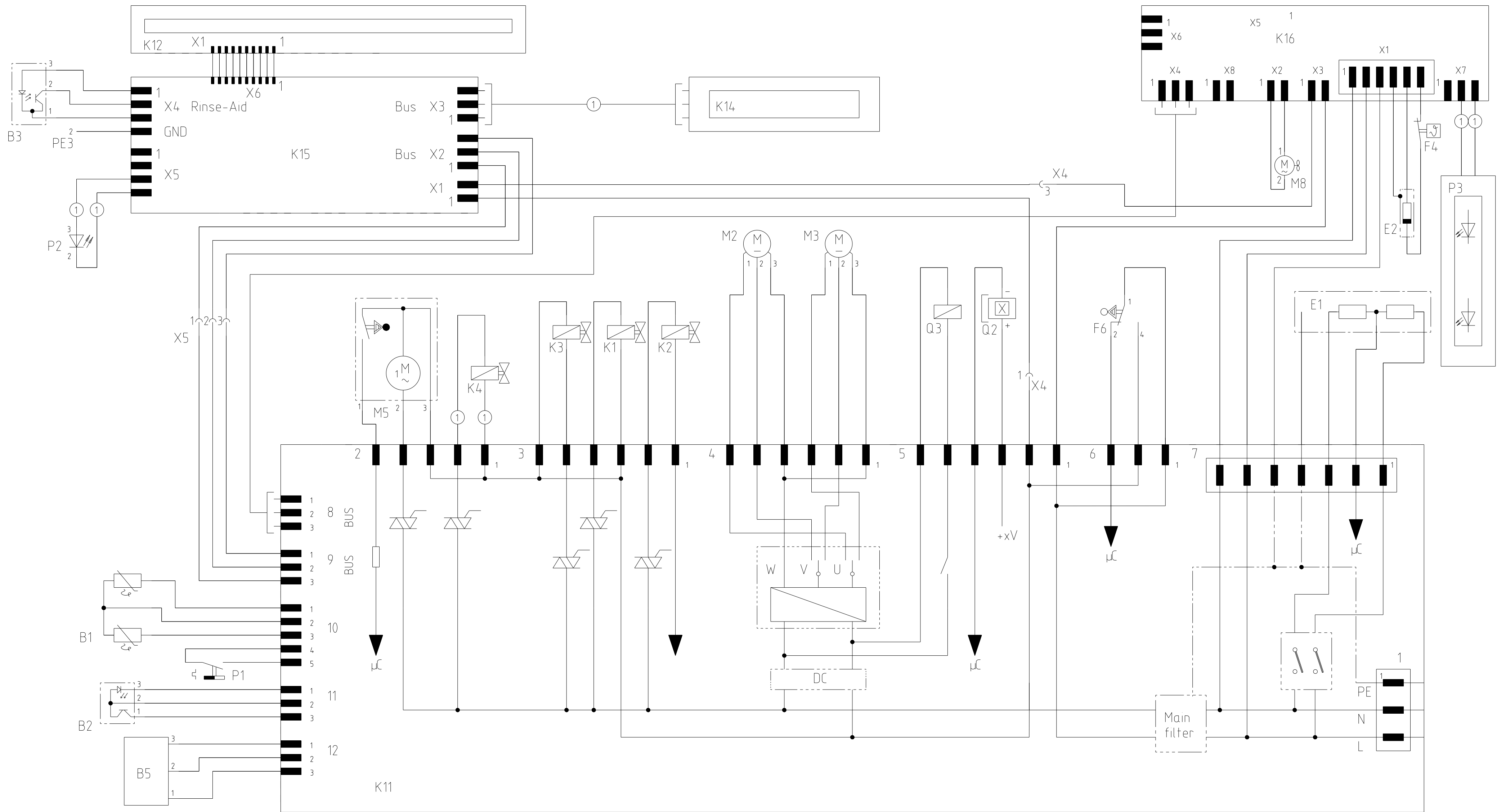
		Display	Can be skipped?	Time (s)	Value	Check Measure	Remark
Pause		S 34	Yes	10		Visual inspection: water level in salt dispenser.	Water level in salt dispenser must be increased by several cm.
Pump off + drain heat exchanger + fill		S:35 – S:36	No	approx. 96	4 l		Rinse the brine solution out of the heat exchanger and pump sump.
Pump off + drain (heat exchanger)		S 37	No	30			Drain the complete appliance.
Check whether appliance was drained (activates circulation pump and drain pump)		S:38 – S:39 (Step S:40 to S:41 are displayed only if error occurs E 24)	No	approx. 10 –120			Self-check whether appliance was drained.
End of test programme		“0” on display or “End LED” is lit				Switch off main switch	Test has ended. When the appliance is next switched on, the normal rinse programme is displayed.
Stop						Perform reset	Is possible at any time by pressing the Start/Stop button for longer than 3 seconds.

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Material No. 9000 365 066	GV640 Zeolith WT	

Function	Actuation	Display	Remark
Operating diagram			Button name
Reset			Switch on the main switch.
		0:01	Press "Start" for 3 seconds.
Select special programmes			Switch off main switch.
			Hold down buttons "B" + "C".
			Switch on the main switch.
		P0	Release buttons.
Select special programmes		P0...P7	Press button "B" until required programme is indicated.
		P0 P1 P2 P3 P4 P5 P6 P7	Fault memory Customer service programme Not relevant to customer service Not relevant to customer service Not relevant to customer service Not relevant to customer service Not relevant to customer service Demonstration programme

Function	Actuation	Display	Remark
Read out fault memory		P0	Activate: Press button "C".
		C:00–C:07 E:00–E:32	Storage space number: Hold down button "C". Storage space contents (fault code): Release button "C".
Customer service test programme		P1	Press button "B" until P1 is displayed.
		S:00 to S:39	Activate: Press button "C".
Skip test step		S:00 to S:39	Press button "B" It is not possible to skip all test steps. See "Test programme" document.
End special programmes			
P0			Switch off main switch.
P1		0:01	Press "Start" for 3 seconds (Reset).

Function	Actuation	Display	Remark
Select demonstration programme		P7	Press button "B" until P7 is displayed.
		Various	Activate: Press button "C".
	Door		<p>If operation from front: Open and close door again.</p> <p>If operation from above: Close and open door and close again.</p>
End demonstration programme	Door		<p>Only if operation from above: When programme is running, open door.</p>
		0:01	Press "Start" for 3 seconds (Reset).
			Simultaneously press buttons "B" + "C".
			Switch off main switch.



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53

REF	Components	Path	REF	Components	Path
B1	Temperature sensor NTC	5	K15	Power supply unitPiezopart	4-17
B2	Low salt sensor optical	4	K16	Electronics module Zeolith	41-53
B3	Low rinse aid sensor optical	1	M2	Circulation pump BLDC	26-27
B5	Aqua sensor 1	6	M3	Detergent solution pump BLDC	29-30
E1	Heater	47,48,50,51	M5	Water switch	12-15
F4	Heater	50-51	M8	Circulating air motor	46
F6	Safety pressure switch	40-41	P1	Impeller meter	6-8
K1	Regeneration valve	22	P2	On light	2
K2	Filler valve	24	P3	Light bar	53
K3	Drainage valve	20	Q2	Door switch	36
K4	Raw water valve	17	Q3	Dispenser coil	34
K11	Power unit	9-51			
K12	Operating unit	7-9			
K14	Display module	24-31			

① Fitted depending on features

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