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1. Test programs

	T	Indication
Activate test mode:	- Close the door - Set program selector switch to position 0 ("OFF") - Set program selector switch to position 8 (6:00 o'clock) - Wait until the start LED is flashing Actuate and hold the "Spin speed" button - Set program selector switch to position 9 (turn clockwise) - Release the "Spin speed" button Error display "Last program" Note: All REMANENT errors will be reset.	LED Start/Pause is flashing state LED's and seven-segment display are illuminated for a period of 3 sec no error: error: F: XX
Select test program:	- Select the test program with the program selector switch. Program selector position 1 is equal to Pos.1, etc. Pos.1 Safety test Pos.2 Automatic test Pos.3 Motor Pos.4 Valves Pos.5 Pump Pos.6 Heater Pos.7 Water level (Pressure sensor) Pos.8 Aqua sensor (Turbidity sensor) Pos.9 Flow sensor Pos.10 not implemented Pos.11 not implemented Pos.11 not implemented Pos.12 not implemented Pos.13 not implemented Pos.14 not implemented Pos.15 3D Sensor	LED Start/Pause is flashing
Start test program:	- Actuate Start/Pause button	LED Start/Pause is illuminated
Abort test program:	- Actuate Start/Pause button or - turn program selector switch	LED Start/Pause is flashing
Leave test mode:	- Set program selector switch to position 0 ("OFF")	

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Test Program - Coding Instruction

Pos.1 Safety		
Test		Indication:
	Door is locked Wait about 15 sec. Pull out mains plug of washing machine Put mains plug into the safety testing device Door must be locked and program selector switch must NOT be at position 0 ("OFF") Run the test program of the safety testing device Note: The heater test should be conducted, before the safety test is started. Therefore is secured, that both heater fuses are working. Note: There is no need of water intake or to switch ON the heater! The control is designed, that all components are included in the safety test.	LED Start/Pause is illuminated
Pos.2 Automatic test		
Test		Indication:
Quick test of all components (Final factory test)	Door is locked	LED Start/Pause is illuminated
solenoid valve 1 ON PF Solenoid valve 2 ON MAIN MAIN MAIN MAIN MAIN MAIN MAIN MAI		
Motor - clockwise rotation 50rpi ON (drum anticlockwise) OFF Motor - anticlockwise 50rpm ON (drum clockwise) OFF		
Motor - spinning ON OFF Time in sec pre-filling	g 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 spinning	

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PW

est		Indication:
eversing	- Door is locked	LED Start/Pause is illuminated
•	- Code of speed variant is displayed	seven-segment display: 16 => 1600rpm
	Code of Speed Tallatin & displayed	14 => 1400rpm
		12 => 1200rpm
	- Pump is actuated	12 -> 1200pm
	- 4 sec: drum is being rotated anticlockwise at 50rpm	
	- 2 sec: break	
	- 2 sec: drum is being rotated clockwise at 50rpm	
pinning and pumping	- Spin speed is increased to the maximum	
	- Display "spin speed is reached"	state LED "spinning" is illuminated
	- The appliance is spinning for 3 min with maximum spin speed	
	Note: unbalance detection is disabled	
	Note: catastrophe limit unbalance detection is enabled	
	inter-state of the state of the	
os.4 Valves	•	·
est		Indication:
solenoid valve	- Door is locked	LED Start/Pause is illuminated
	- Pump is actuated until the appliance is completely drained	
	Water is being taken in via valve V1 for about 5 sec	
	- Water is being taken in via valve V2 for about 5 sec	
	Note: only cold water appliances, otherwise 5 sec break	
	- Water is being taken in via valve V3 for about 5 sec	
	Note: only warm water appliances, otherwise 5 sec break	
	- water is taken in via valves V1 and V2	
	Note: When overflow level is reached, the pump is actuated for 90 sec and "F:31" is displayed.	
os.5 Pump		
est		Indication:
rump	- Door is locked	LED Start/Pause is illuminated
	- Pump is actuated	
	- Pump is switched off	
	- Break for about 2 sec	
	- Pump is being actuated for about 2 sec	LED Chart/Davis is floating
	- Door is unlocked	LED Start/Pause is flashing
		1
os.6 Heater est		Indication:
eater	- Door is locked	LED Start/Pause is illuminated
realer		LED Stativ Fause is illuminated
	- Water is taken in to heater level	
	- Heater is switched on	
	Note: The heater is switched off after 30 minutes or after the temperature of 85°C is reached.	
		I
os.7 Water level (Pressure sensorest	r)	Indication:
	- Door is locked	Indication: LED Start/Pause is illuminated
djustment of pressure sensor		LED Starveause is illuminated
	- Pump is actuated	
	- When the appliance is completely drained: -> adjustment of pressure sensor	
	- Pump is switched off	
	- Water is taken in to a level of 24 cm above drum bottom	

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PW

Pos.6 Aqua sensor (Turbidity sensor)		
Test		Indication:
Adjustment of aqua sensor	- Door is locked	LED Start/Pause is illuminated
	- Pump is actuated	
	- When the appliance is completely drained:	
	-> adjustment of aqua sensor	
	- Pump is switched off	
	- Door is unlocked after 10 sec	LED Start/Pause is flashing

Pos.9 Flow sensor

Test		Indication:
Flow sensor	- Door is locked	LED Start/Pause is illuminated
	- Pump is actuated until the appliance is completely drained	
	- Pump is switched off	
	- Water is taken in until 5 litres are measured (Tolerance is depending of the water supply pressure)	
	-> the drum is visible covered with water	
	- Door is unlocked	LED Start/Pause is flashing
	Note: Test program runs only, when the flow sensor is implemented.	

Pos.15 3D Sensor

Test		Indication:
3D Sensor		LED Start/Pause is illuminated
(communication)	- Test is being run	seven-segment display: ""
	- No error	"cor"
	- Error	"Err"
		LED Start/Pause is flashing

2. Final factory test

		Indication:
Activate test flag	- Close the door	
(not relevant for customer service)	- Set program selector switch to position 0 ("OFF")	
	- Set program selector switch to position 8 (6:00 o'clock)	
	- Wait until the start LED is flashing.	LED Start/Pause is flashing
	- Actuate and hold the "Spin speed" button	
	- Set program selector switch to position 7 (turn anticlockwise)	state LED's and seven-segment display are illuminated for a period of 3 sec
	- Release the "Spin speed" button	
	- Pull the mains plug within 10 sec	
	- Set program selector switch to position 13	
	The automatic test starts, when the appliance is connected with the mains	
	The automatic test starts, when the appliance is connected with the mains	

3. Error search

		Indication:
Activate error search:	- Close the door - Set program selector switch to position 0 ("OFF") - Set program selector switch to position 4 (3:00 o'clock) - Wait until the start LED is flashing Actuate and hold the "Spin speed" button	LED Start/Pause is flashing
	- Set program selector switch to position 5 (turn clockwise) - Release the "Spin speed" button.	

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Test Program - Coding Instruction



		Indication:
Display of first error	- Select the program with the program selector switch.	LED Start/Pause is illuminated
of the chosen program	Program selector position 1 is equal to Pos.1, etc.	
	Pos.1 error of "power-on" states after last program	seven-segment display (flashing): "F:aa"
	Pos.2 error of last program	"F:aa"
	Pos.3 error of last program -1	"F:aa"
	Pos.4 error of last program -2	"F:aa"
	Pos.5 error of last program -3	"F:aa"
	Pos.6 error of last program -4	"F:aa"
	Pos.7 error of last program -5	"F:aa"
	Pos.8 error of last program -6	"F:aa"
	Pos.9 not implemented	
	Pos.10 not implemented Pos.11 not implemented	
	Pos.12 not implemented	
	Pos.13 not implemented	
	Pos.14 not implemented	
	Pos.15 not implemented	
Disable of East well Ethers	A service set 5 server and total for each service.	
Display of first until fifth error of the chosen program	A maximum of 5 errors are stored for each program. The order of errors is equal to the appearance.	
of the chosen program	The order of errors is equal to the appearance.	
	- Actuate the "Finish in" button to display the next occurred error.	seven-segment display (flashing):
	0 or 1 Error audible signal: "beep beep"	"F:aa"
	2 Errors	"F:aa" 1. Error
	"Finish in" button is actuated	"F:bb" 2. Error
	"Finish in" button is actuated	"F:aa" 1. Error
	;	
	3 Errors	"F:aa" 1. Error
	"Finish in" button is actuated	"F:bb" 2. Error
	"Finish in" button is actuated	"F:cc" 3. Error
	"Finish in" button is actuated	"F:aa" 1. Error
	;	: :
	4 Errors	"F:aa" 1. Error
	"Finish in" button is actuated	"F:bb" 2. Error
	"Finish in" button is actuated	"Fice" 3. Error
	"Finish in" button is actuated	"F:dd" 4. Error
	"Finish in" button is actuated	"F:aa" 1. Error
	:	: :
	5 Errors	"F:aa" 1. Error
	"Finish in" button is actuated	"F:bb" 2. Error
	"Finish in" button is actuated	"Ficc" 3. Error
	"Finish in" button is actuated	"F:dd" 4. Error
	"Finish in" button is actuated	"F:ee" 5. Error
	"Finish in" button is actuated	"F:aa" 1. Error
	:	
Leave test mode:	- Set program selector switch to position 0 ("OFF")	
Leave test mode:	- Set program selector switch to position 0 ("OFF")	

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Test Program - Coding Instruction



4. List of error numbers

FATAL ERROR: - A restart of a washing program is possible by switching OFF/ON appliance

REMANENT ERROR: - In case of remanent error, it's impossible to restart any washing program by switching OFF/ON appliance (error will remain).

- Error can be erased by activating the test mode

Malfunction is displayed during the washing program.

Error	Error display:		Error description:	Possible reason:	Possible effect:	Corrective:	Inspection:
No	normal mode	test mode	· 1				
16 ⊗	F: 16	F: 16	door lock open	- door is open - door switch is not actuated	- washing program is halted - a restart is possible - error will not be stored	- close door - check door lock - check wire harness	Normal mode: start any washing program with a open door
17 ⊗	F: 17	F: 17	water filling time exceeded (conventional measurement)	- water tap is closed - water pressure <1bar at supply - filter or supply is blocked - solenoid valve is broken - aqua stop solenoid valve is broken - pressure sensor is broken	washing program is halted pump starts after 5 min a restart is possible	- open water tap - check components - check wire harness	Pos.7 Water level (Pressure sensor) Pos.4 Valves
18 ⊗	F: 18	F: 18	pumping time exceeded	- pump is blocked or broken - pressure sensor is broken - hose to the pressure sensor is blocked - draining hose is blocked	FATAL ERROR without 90sec pumping - washing program is aborted - door is locked, if possible - operator control actions are blocked - the current indication is frozen	Reset error with OFF and ON check components check wire harness	Pos.5 Pump
19		F: 19	heating time exceeded	- heating circuit is broken - set temperature can not be achieved - low voltage - fossil heater or heater is broken - heater relay is blocked	 washing program will be finished without heating 	- check heater - check wire harness - check control	Pos.6 Heater
20		F:20	unexpected heating	- NTC is broken (out of range) - heater relay is stuck - the heater is actuated in a non heating period	FATAL ERROR - washing program is aborted - door is locked, if possible - the pump removes water - operator control actions are blocked - the current indication is frozen	- Reset error with OFF and ON - check NTC - check heater - replace power module	Pos.6 Heater
23 ⊗	F: 23	F: 23	aqua stop actuated	- water in the base tub - leaky water system - aqua stop switch is blocked / broken	- washing program is aborted - the pump is actuated	- check leak tightness of water system - check aqua stop switch - check wire harness	Normal mode
25		F: 25	error of Aqua Sensor (error of Turbidity Sensor) calibration of operating point failed	- calcified Aqua Sensor (Turbidity Sensor)	washing program will be finished without rinsing cycles	- check Aqua Sensor - check wire harness	Pos.8 Aqua sensor (Turbidity sensor)
26		F: 26	error of analogue pressure sensor (provides error voltage)	- pressure sensor broken - hose to the pressure sensor is blocked	FATAL ERROR - washing program is aborted - door is locked, if possible - the pump removes water - operator control actions are blocked - the current indication is frozen	Reset error with OFF and ON check pressure sensor check hose to the pressure sensor check wire harness	Pos.7 Water level (Pressure sensor)
27		F: 27	error of offset adjustment of analogue pressure sensor	- pressure sensor is broken	The adjustment will be skipped. The old value will be used.	- check pressure sensor - check wire harness	Pos.7 Water level (Pressure sensor)

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Test Program - Coding Instruction



Error	Error display:		Error description:	Possible reason:	Possible effect:	Corrective:	Inspection:
No	normal mode	test mode					
28		F: 28	error of flow sensor (provides implausible values)	- flow sensor is broken	The water intake is changed from volume based to time based.	- check flow sensor - check wire harness	Pos.9 Flow sensor
29 ⊗	F: 29	F: 29	no water filling detected by flow sensor (fast measurement)	- water tap is closed - water pressure <1bar at supply - filter is blocked - supply is blocked - solenoid valve is broken - aqua stop solenoid valve is broken - pressure sensor is broken	- washing program is halted - pump starts after 5 min - a restart is possible	- open water tap - check components - check wire harness	Normal mode Pos.7 Water level (Pressure sensor) Pos.4 Valves
31		F: 31	overflow level exceeded	- pump is blocked - draining hose is blocked - solenoid valve is stuck - adjustment of pressure sensor is incorrect L pressure sensor is blocked L hose to the pressure sensor is blocked	water level is pumped down below overflow level the program is continued	- check solenoid valve - check pump - check pressure sensor - check hose to the pressure sensor - check wire harness - check draining hose	Pos.7 Water level (Pressure sensor) Pos.4 Valves Pos.5 Pump
32		F: 32	spinning interruption	- unbalance detected	- spinning interruption	- no need - no need to take into consideration	Normal mode
34 ⊗	F: 34	F: 34	door lock can not be locked	- door lock is broken - door hook is stuck - door is stuck - stiff gasket	FATAL ERROR - washing program is aborted - door is unlocked, if possible - operator control actions are blocked - the current indication is frozen	- Reset error with OFF and ON - check door lock - check mechanic - check wire harness	Normal mode
35		F: 35	Door lock can't unlocked	- door lock is broken - door hook is stuck - door is stuck - stiff gasket	FATAL ERROR - Door is locked - door is unlocked, if possible	- Reset error with OFF and ON - check door lock - check mechanism - check wire harness	Normal mode
36 ⊗	F: 36	F: 36	door lock circuit defect	- control is broken L Triac is broken L Relays is broken	FATAL ERROR - washing program is aborted - door is unlocked, if possible - operator control actions are blocked - the current indication is frozen	- Reset error with OFF and ON - check control - check wire harness	Normal mode
37		F: 37	error of temperature sensor: break	- NTC is broken	washing program will be finished without heating	- check NTC - check wire harness	Pos.6 Heater
38		F: 38	error of temperature sensor: short-circuit	- NTC is broken	- washing program will be finished without heating	- check NTC - check wire harness	Pos.6 Heater
42 ⊗	F: 42	F: 42	uncontrolled run-up of drum motor	- control is broken L Triac is broken	REMANENT ERROR - washing program is aborted - door is unlocked, if possible - operator control actions are blocked - the current indication is frozen	Reset error with activating test mode check control	Normal mode Pos.3 Motor

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Test Program - Coding Instruction



Error	Error display:		Error description:	Possible reason:	Possible effect:	Corrective:	Inspection:
No	normal mode	test mode					
43 ⊗	F: 43	F: 43	drum motor does not rotate	- speed sensor is broken	REMANENT ERROR	- Reset error with activating test mode	Normal mode
				- drum is blocked by laundry	- washing program is aborted	- check load	Pos.3 Motor
				- motor is blocked	- door is unlocked, if possible	- check speed sensor	
				- control is broken	- operator control actions are blocked	- check control	
				L Triac is broken	- the current indication is frozen	- check wire harness	
44 ⊗	F: 44	F: 44	test of relay for changing direction	- control is broken	REMANENT ERROR	- Reset error with activating test mode	Normal mode
			of drum motor failed	L Triac is broken	- washing program is aborted	- check control	Pos.3 Motor
					- door is unlocked, if possible		
					- operator control actions are blocked		
					- the current indication is frozen		
59		F: 59	3D-Sensor: measurement error or	- wire harness is broken	reduced spinning speed	- check wire harness	Pos.15 3D Sensor
			plausibility error	- EMC failure	, , ,	- check 3D sensor	
			i -	- control is broken		- check position of magnet	
				- 3D-Sensor is broken		- check control	
				- magnet not in position			
				- software of 3D sensor is incompatible			
60		F: 60	flow sensor:	- flow sensor is broken	The water intake is changed from	- check flow sensor	Pos.9 Flow sensor
			too low or too high values	- turbulent water in the sensor or hose	volume based to time based.	- check filter in solenoid valve	
						- check wire harness	
61		F: 61	implausible door lock status	- door is locked but open	FATAL ERROR	- Reset error with OFF and ON	Normal mode
01		F. 01	implausible door lock status	- emergency unlock was actuated by hand	- washing program is aborted	- check door lock	Normal mode
				- emergency unlock was actuated by fland	- door is locked, if possible	- check door lock	
					- the pump removes water	- check wire harness	
					- operator control actions are blocked	- Check wife flatfless	
					- the current indication is frozen		
63 ⊗	E- 63	F: 63	System error	- incorrect variant coding	FATAL ERROR	- Reset error with OFF and ON	Normal mode
03 ⊗	1.03	1.03	System entiti	- no communiction between Power Unit and	- washing program is aborted	- check variant coding in test mode	Normal mode
			1	Operating Unit.	- door is unlocked possibly	- check D-Bus wire harness	
			1	Operating Offit.	operator control actions are blocked	- replace power module	
		ĺ	1		the current indication is frozen	- replace power module	
67 ⊗	E: 67	F: 67	Implausible or inexistent variant	- variant code is incompatible between the controls	FATAL ERROR	- Reset error with OFF and ON	Variant coding
07 ⊗	1.07	1.07	coding	- software of controls is incompatible	- washing program is aborted	- repeat variant coding	variant county
			coung	- sortware or controls is incompatible	- door is locked, if possible	- replace control(s)	
		ĺ	1				
					- the pump removes water - operator control actions are blocked	- reprogram the control(s) (development only)	
		ĺ	1		the current indication is frozen		
	1			L	- the current indication is frozen		

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5. Variant coding

The customer service code is at the appliance:

- > at a label placed at the inner surface of the door
- > at the rating plate at the rear panel of the appliance

		Indication:
Activate variant coding mode:	- Close the door - Set program selector switch to position 0 ("OFF") - Set program selector switch to position 12 (9:00 o'clock) - Wait until the start LED is flashing.	LED Start/Pause is flashing
	 Actuate and hold the "Spin speed" button Set program selector switch to position 11 (turn anticlockwise) Release the "Spin speed" button. 	LED Start/Pause is illuminated
Select variant:	- Select the variant with the program select switch. Program selector position 1 is equal to Pos.1, etc The current variant code is incremented, when the "Finish in" button is pressed.	
	Pos. 1 Setting Speed variant (range 07) 0 1600 rpm oscillating system 1600 1 1400 rpm oscillating system 1600 2 1200 rpm oscillating system 1600 3 1000 rpm oscillating system 1600 4 1400 rpm oscillating system 1400 5 1200, 1000 rpm oscillating system 1400 6 1200 rpm oscillating system 1200 7 1000 rpm oscillating system 1200 Note: All information concerning the oscillating system is printed at the top weight.	The current variant code is displayed in the seven-segment display
	Pos. 2 Setting Aqua stop / Warm water (range 03) 0 Cold water with Aqua stop 1 Warm water without Aqua stop 2 Cold water without Aqua stop	The current variant code is displayed in the seven-segment display
	Pos.3 Setting Door lock (range 01) 0 PTC door lock 1 Magnetic door lock	The current variant code is displayed in the seven-segment display
	Pos. 4 Setting Flow sensor (range 01) 0 without Flow sensor 1 with Flow sensor	The current variant code is displayed in the seven-segment display
	Pos. 5 Setting Aqua sensor (Turbidity sensor) (range 03) 0 without Aqua sensor 1 with Aqua sensor 2-3 not used	The current variant code is displayed in the seven-segment display

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		Indication:
Select variant:		
	Pos. 6 Setting VT-Set (range 04) Customer Service PCB: - Look up control (MExxxx) on rating plate or door label - Look up coding on document "spare part information" (For development: "FK_VersionSurvey_HW+SW" (5500 000 003 4256)) Serial PCB: Coding = 0, not changeable	The current variant code is displayed in the seven-segment display
	Pos.7 Setting Language cluster (range 07) Coding = 0, not changeable	The current variant code is displayed in the seven-segment display
	Pos.8 Setting Language (range 05) Coding = 0, not changeable	The current variant code is displayed in the seven-segment display
	Pos.9 Setting Brand (range 07) 0 regional brand fascia 1 Siemens fascia and regional brand printing 2 Bosch fascia 3-7 not used	The current variant code is displayed in the seven-segment display
	Pos.10 Setting Key variant (range 07)	The current variant code is displayed in the seven-segment display
	0 Bosch	Int Pre T. Ets Start Sp-
	Siemens and regional brands	T- Sp- Ets Int Pre Li Xrin Start
	1 Bosch	Int Pre T- Ets Start Sp-
	1 Siemens and regional brands	T- Sp- Ets Int Pre Li AgX Start

Legend:

Int Intensive, Stains Pre Prewash Li Less ironing Xrin Extra rinse AgX Water plus
T- Reduce temperature Sp- Reduce spin speed
Ets End time selection
Start Start/Pause

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		Indication:	
Select variant:	2 Bosch	Int Pre T- Ets Start Sp-	
	2 Siemens and regional brands	T- Sp- Ets Int Pre Li Prin Start	
	3-7 Bosch	Sp- Sp- Sp- Ets Start Sp-	
	3-7 Siemens and regional brands	Sp- Sp- Ets Sp- Ets Sp- Start	
	Pos.11 Setting Menu variant (range 0) Coding = 0, not changeable	The current variant code is displayed in the seven-segment display	
	Pos.12 Setting Load display (range 01) 0 with load display - not used 1 without load display	The current variant code is displayed in the seven-segment display	
	Pos.13 Setting Child lock (range 0) Coding = 0, not changeable	The current variant code is displayed in the seven-segment display The current variant code is displayed in the seven-segment display	
	Pos.14 Setting Valve terminal (range 0) Coding = 0, not changeable		
	Pos.15 Setting Control (range 04) 0 (P) not used 1 (A) not used 2 (E) EU ME77, ME107, ME147, ME197 UL ME104, ME116 3 (D) not used 4 (S) not used	The current variant code is displayed in the seven-segment display	
Set new variant: (Update variant code in power module)	- All changes are valid after the "Start/Pause" button is actuated - Set program selector switch to position 0 ("OFF") Note: The variant coding mode is left after the "Start/Pause" button is actuated.	Display OFF / ON uPd Display OFF / ON normal mode	

Legend:

Intensive, Stains
Pre Prewash
Li
Less ironing
Extra rinse
Prin
Power rinse
AgX
TReduce temperature
SpReduce spin speed
Ets
End time selection
Start Start/Pause

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