



Service Manual

Dishwasher

ADP 543 WH

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	Family	TQ SMART

Technical data

Dimension

Height	85.0	cm +15
Width	59.8	cm
Depth	57.0	cm
Weight	51.7	kg

Succession of programs

Programs	see program diagram
Succession	P300 Prewash P304 Eco 50° P303 Normal 50° P301 Intensive 65°

Datas Energy Label

Energy Performance	B
Cleaning Performance	C
Drying Performance	D
Reference program	P304 Eco 50°

Specification / PI-Expression

Program Daily 65°C		
Water consumption	16	l
Energy consumption	1.64	kWh
Program duration	~ 100	min

Program Eco 50°C		
Water consumption	20	l
Energy consumption	1.44	kWh
Program duration	~ 100	min

Noise level		
- without door insulation	~ 56	dB (A)

Detergent		
Separate contained		
- chamber I	15 - 25	ml
- chamber II	5	ml

Water connection	~ 25	°C
Water connection up to	60	°C
Capacity	12	stand. place settings

Volume

Water		
Basic/working level	4.8	l
Safety level	12.0	l
Overflow-level	13.5	l

Rinse aid		
Clear rinse max.	150	cm ³
Minimum for indication off	90	cm ³
6 Dossier steps	1 - 6	cm ³ ± 0.5
Salt container	2	kg

Flow Rates / Inlet Volumes

Spray pump	70	l / min
Drain pump	18	l / min
Height of drain hose max.	1.0	m
Height of drain hose min.	0.4	m
Length of drain hose max.	3.7	m
Length of drain hose min.	1.4	m
Water inlet electrovalve	2.5	lpm ± 2.5%

Water Pressure

Inlet pressure	0.3 - 10	bar
Spray pump pressure	0.32	bar

Rotations

Spray pump - motor	2800	RPM
Drainpump - Motor	3000	RPM
Spray arm lower	40	RPM ± 5
Spray arm upper	25	RPM ± 5

Electrical Data

Base level		
Voltage	220/230	V
Frequency	50	Hz
Total power	2.2/ 2.4	kW
Fuses	16	A

Timer

Model	Ako Type 516 653
Basic step time	7.5 s
2 Normal times	30/150 s

Technical data

Heating

1 Element system

Type	Flow through
Voltage	220 - 240 V
Power consumption	~ 2 kW
Resistance	~ 25.0 Ω
Security	98 °C
Thermo fuse	226 °C

Motor

Spray pump - motor

Voltage	220 - 230 V
Power consumption	160 W
HI	75 Ω
HA	41 Ω
Capacitor	5 μ F

Drainpump - motor

Voltage	220 - 240 V
Power consumption	30 W
Resistance	168 Ω

Timer motor

Voltage	220 - 240 V
Resistance	9.5 kΩ

Valves

Water Inlet valve

Voltage	220/240 V
Power consumption	6 W
Resistance	3850 Ω

Regeneration valve

Voltage	220/240 V
Power consumption	6 W
Resistance	3750 Ω

Thermostat (NTC)

Type	ELTH	2611850
Temperatures	50	°C ± 3
Temperatures (reset value)	40	°C ± 3

Water levels

Regeneration level - Water Levels P/S

Switching point	70 ± 5	mm w.c.
Reset point	45 ± 5	mm w.c.
No overflow/ no protective resistance		

Regeneration and Volumes

Volume	320	cm ³
Steps	4	
Water hardness	< 30°	dh
	< 5.0	mmol/l
Salt consumption		
by 21° dh max.	50	g
(Default Water hardness setting is 3)		

Water hardness category	Position of selector	German degrees °dH	French degrees °fH
1	1	0 - 6	0 - 11
2	2	7 - 13	12 - 23
3	3	14 - 20	24 - 36
4	4	21 - 35	37 - 63

Spare part list

Model
Service No.
Version
ADP 543 WH
854277301701
854277301701

Pos. No.	12NC Code	Description
001 1	4812 404 48782	Bracket foot left
001 2	4812 404 48783	Bracket foot right
001 3	4812 404 48784	Bracket foot
004 0	4812 440 10498	Drip tray assy
011 0	4812 505 18374	Foot short, adjustable
022 0	4812 440 19575	Side panel left
022 1	4812 440 19576	Side panel right
024 0	4812 404 78605	Support
030 0	4812 440 19992	Table top
040 1	4812 417 18836	Hinge right
040 2	4812 417 18835	Hinge left
040 3	4812 417 18949	Protector f. Door
044 0	4812 462 38142	Spring, hinge
047 0	4812 404 48864	Hinge pulley
047 1	4812 404 48735	Brake Door
047 2	4812 404 68032	Hook left
047 3	4812 404 68033	Hook right
050 0	4812 440 88957	Plinth (Whirlpool) PS
053 0	4812 440 19573	Plinth
061 0	4812 466 88484	Counter weight
065 0	4812 466 48071	Insulation
103 0	4812 440 19993	Door,outer
120 0	4812 440 11116	Door,inner
120 1	4812 440 19933	Batten
123 0	4812 466 48069	Insulation Door
130 0	4812 417 58375	Tilt lock
131 0	4812 401 18578	Hook Lock
191 0	4812 466 68752	Sealing Door
191 1	4812 466 68732	Sealing door
191 2	4812 466 68733	Sealing door
192 0	4812 466 68734	Sealing door
200 0	4812 404 78696	Tub -2003
241 1	4812 404 48825	Shelf
241 3	4812 528 88081	Wheel,basket upper
241 4	4812 458 19022	Basket upper w. roller
242 0	4812 458 19114	Basket lower
242 1	4812 528 88079	Wheel,basket lower
243 0	4812 458 18966	Cutlery cpl.
261 0	4812 462 38075	Rail telescope, inner
261 1	4812 462 79745	Cap rail
261 2	4812 462 79746	Cap rail ahead
301 0	4812 453 72529	Control panel
303 0	4812 460 58361	Grip
331 0	4812 413 59047	Knob
332 0	4812 410 28722	Push button cap on/off
332 1	4812 410 28723	Push button cap funktion
351 0	4812 381 28061	Lamp red
351 2	4812 381 28067	Lamp red
400 0	4812 361 58392	Spray pump
400 1	4812 846 78001	Cap fixation
400 2	4812 401 18489	Bracket Motor
400 3	4812 401 18491	Damper circulation pump
400 4	4812 401 48577	Bracket Motor group
420 0	4812 121 18261	Capacitor
421 0	4812 121 18241	Interf.filter

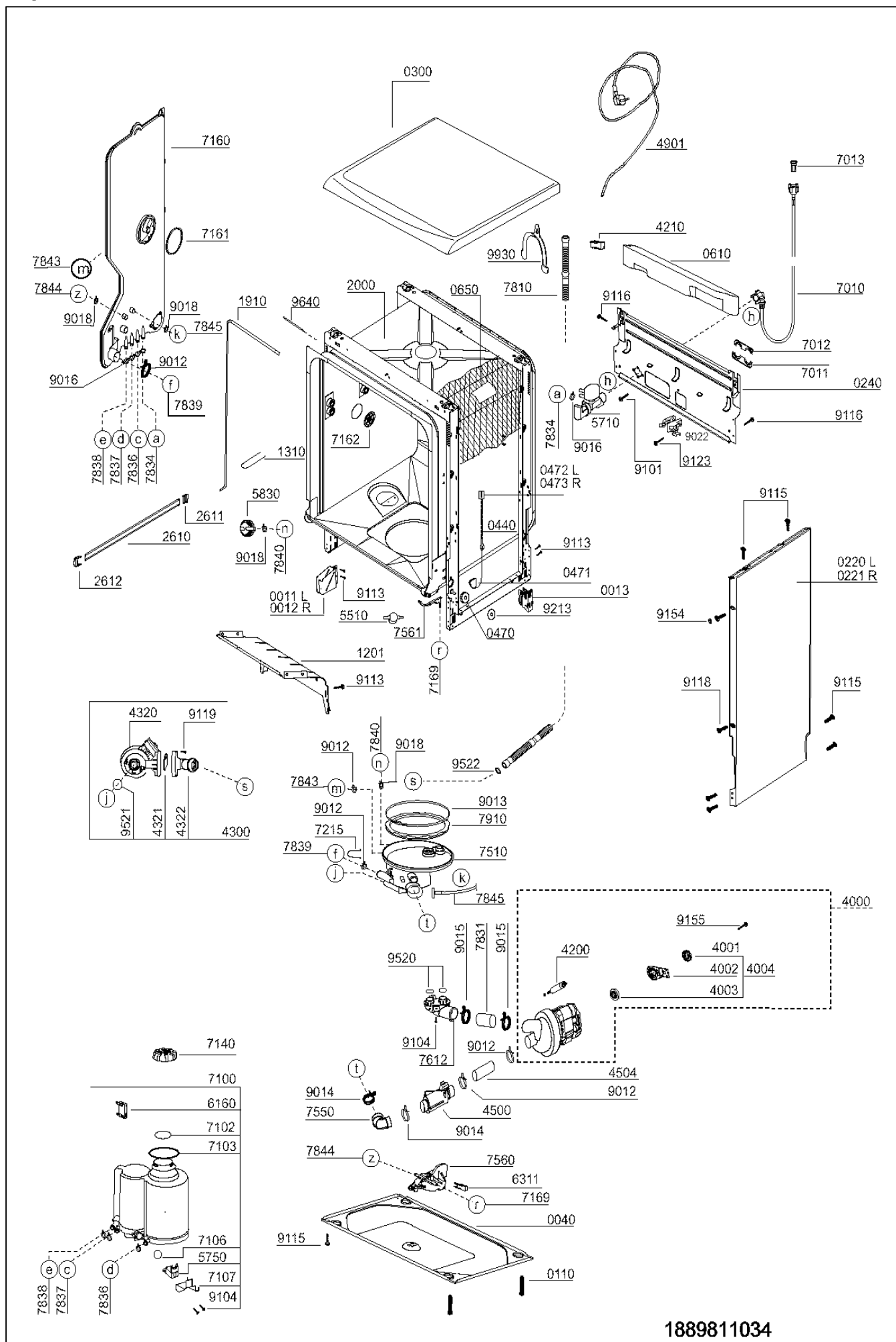
Pos. No.	12NC Code	Description
430 0	4812 360 18523	Pump,draining cpl.
432 0	4812 360 18521	Pump,draining
432 1	4812 466 88549	Gasket Drain pump
432 2	4812 466 58013	Holder Pump gasket
450 0	4812 259 28874	Heating element
450 4	4812 530 29325	Hose Heating element
490 1	4812 321 18186	Cable,mains 240V
500 0	4812 905 08478	Timer
551 0	4812 282 48268	Thermostat 50 °C
571 0	4812 281 28428	Inlet valve
575 0	4812 281 28408	Valve,magnet regener.
583 0	4812 271 28503	Pressostat safety
616 0	4812 281 18051	Contact,reed salt
620 1	4812 452 10513	Holder knob
621 0	4812 276 28372	Switch,pushbut.
631 1	4812 271 28452	Switch overflow
633 0	4812 271 38402	Microswitch door
680 0	4812 418 68312	Combidosage from 2003
680 1	4812 466 68794	Gasket from 2003
680 2	4812 271 58168	Switch,thermal
701 0	4812 530 29032	Hose, inlet
701 1	4812 404 78606	Hose Holder
701 3	4812 480 58104	Filter
710 0	4812 418 68204	Monoblock
710 3	4812 466 68809	Gasket
710 6	4812 466 68646	Gasket Regeneration valve
710 7	4812 281 28407	Valve Holder
714 0	4812 418 68209	Lid Monoblock
716 0	4812 418 68313	Reg.dosage -2003
716 1	4812 466 68647	Gasket Reg.dosage
716 2	4812 846 78005	Cap -2003
716 9	4812 530 29197	Hose
721 1	4812 360 68078	Spray arm lower cpl.
721 5	4812 435 18097	Clamp Drain hose
722 0	4812 360 68516	Spray arm upper
722 1	4812 360 68244	Spray arm upper
726 0	4812 530 28893	Tube
726 1	4812 530 29016	Tube
726 2	4812 530 29017	Tube
726 3	4812 466 28126	Gasket spray feedhose
726 4	4812 466 68648	Holder spray arm hose
726 5	4812 466 68649	Guide
726 6	4812 466 68651	Hose upper spray feed
751 0	4812 418 18506	Water collector -2003
755 0	4812 530 29326	Hose (Water collector)
756 0	4812 271 18017	Switch over flow
761 0	4812 480 58095	Sieve fine
761 1	4812 480 58292	Filter
761 2	4812 532 48048	Water guide
762 0	4812 480 58327	Filter set
763 0	4812 480 58291	Filter
764 0	4812 480 58289	Filter
781 0	4812 530 29301	Hose,draining
783 1	4812 530 58121	Hose pump-sump
783 4	4812 530 58169	Hose -2003

Spare part list

Model **ADP 543 WH**
Service No. **854277301701**
Version **854277301701**

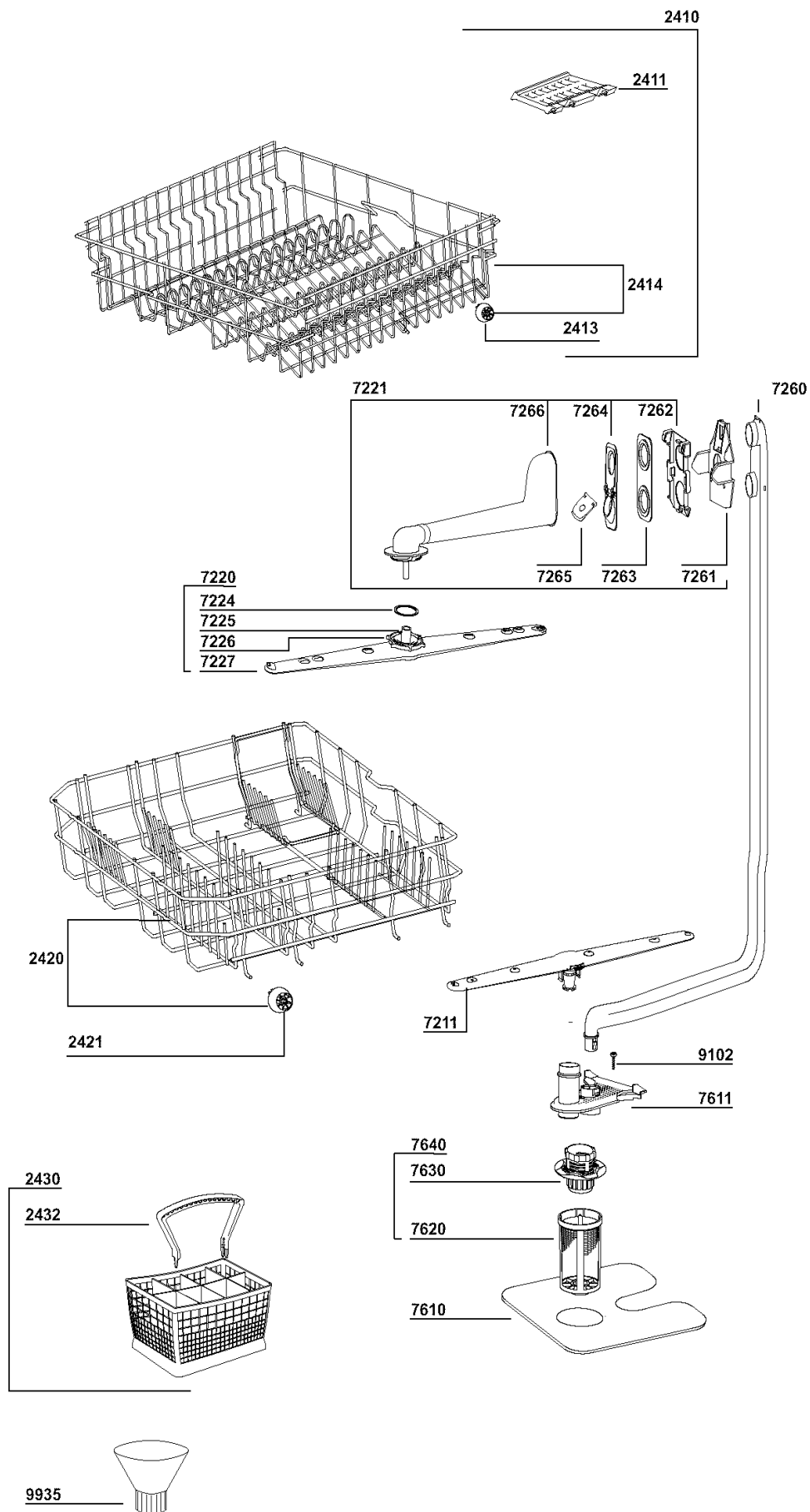
Pos. No.	12NC Code	Description
783 6	4812 530 58174	Hose
783 7	4812 530 58171	Hose
783 8	4812 530 58172	Hose -2003
784 0	4812 530 58135	Hose
784 6	4812 530 58173	Hose -2003
791 0	4812 532 68093	Gasket sump
901 2	4812 401 18662	Clamp
901 3	4812 401 18493	Strap sump
901 4	4812 401 18494	Strap 47
901 5	4812 401 18495	Strap 40
901 6	4812 401 18496	Strap 15,9
901 8	4812 401 18498	Strap 8,6
901 8	4812 401 18663	Clamp
901 9	4812 401 18024	Strap YDNAC 10081
902 2	4812 321 28413	Strain relief
910 1	4812 502 18473	Screw PT 4x18
910 2	4812 502 18456	Screw 4x18
910 4	4812 502 18457	Screw 4x14
910 5	4812 502 18458	Screw 4x16
911 2	4812 502 18459	Screw M4x10
911 3	4812 502 18536	Screw M4X8
911 4	4812 502 18504	Screw
911 5	4812 502 18463	Screw 3,9x19
911 6	4812 502 18464	Screw
911 8	4812 502 18466	Screw
912 3	4812 502 18586	Screw
915 3	4812 502 18472	Washer M5x8
915 4	4812 846 78003	Cap screw
915 5	4812 404 18146	Screw 5x22
921 3	4812 526 48073	Washer
952 0	4812 630 58097	O-Ring
952 1	4812 630 58098	O-Ring
952 2	4812 630 58099	O-Ring
964 0	4812 460 58383	Tape,sealing
993 0	4819 530 29028	Bow
993 5	4822 532 80216	Funnel salt

Exploded view

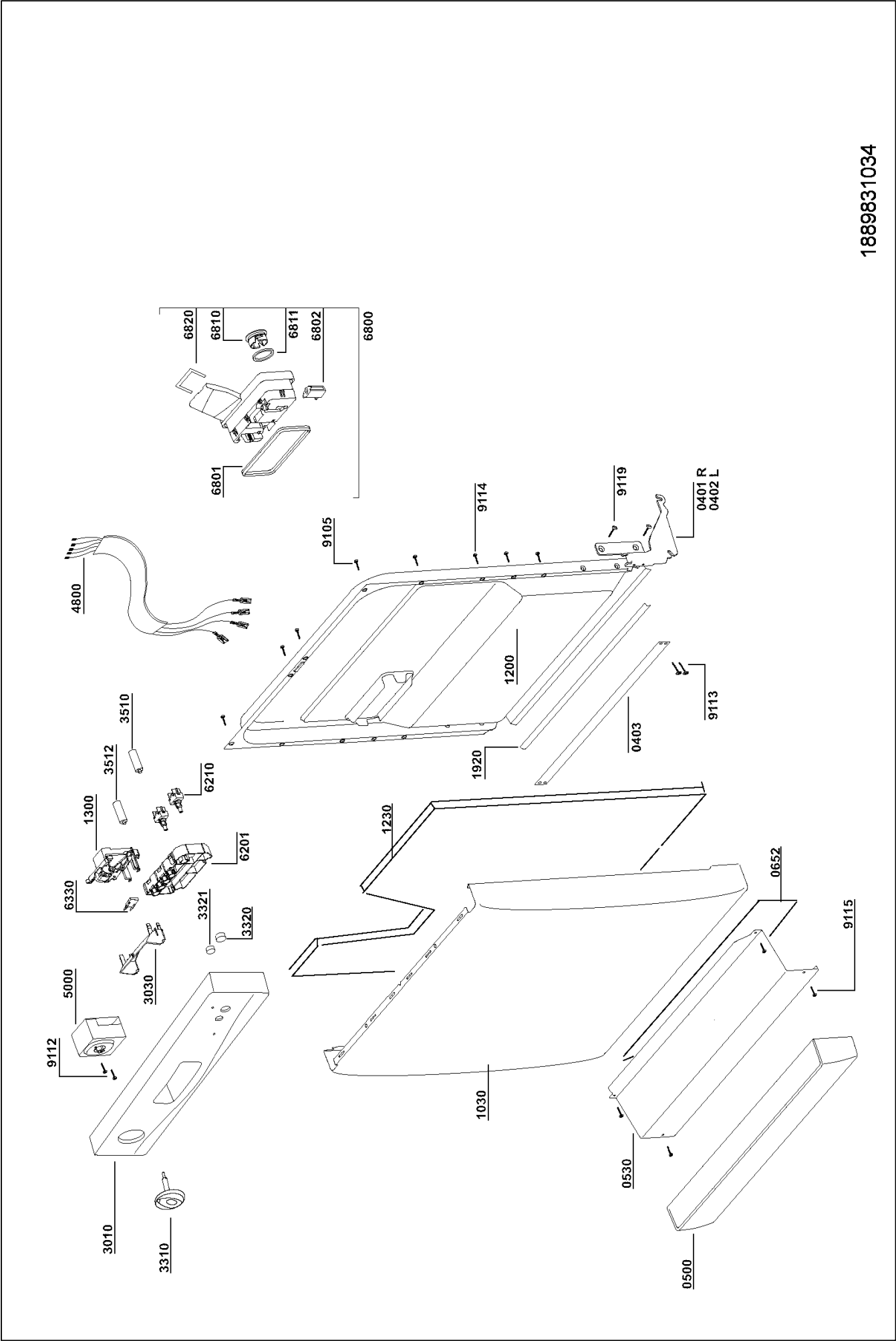


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Exploded view



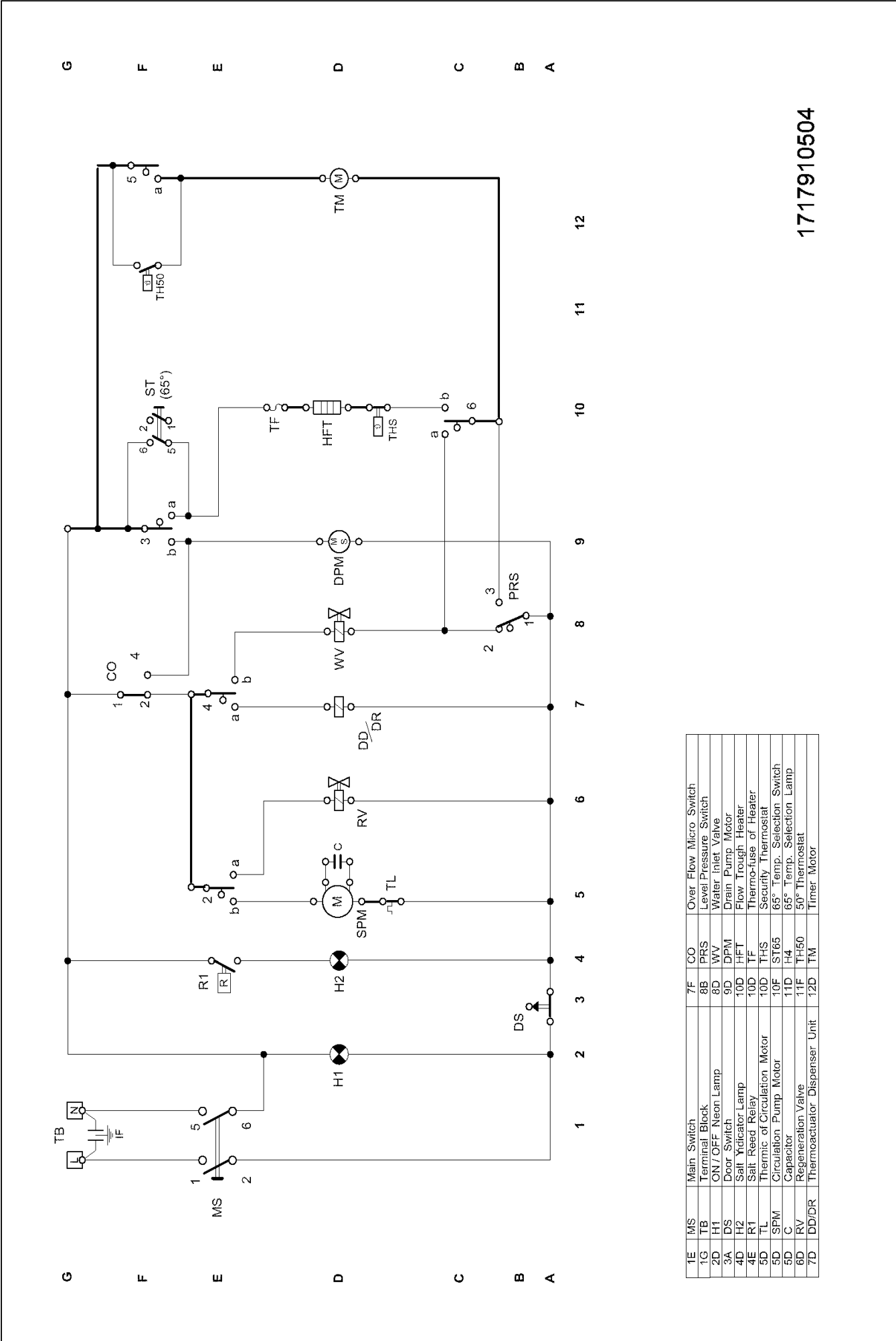
Exploded view



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Circuit diagram



1E	MS	Main Switch	7F	CO	Over Flow Micro Switch
1G	TB	Terminal Block	8B	PRS	Level Pressure Switch
2D	H1	ON / OFF Neon Lamp	8D	WV	Water Inlet Valve
3A	DS	Door Switch	9D	DPM	Drain Pump Motor
4D	H2	Salt Indicator Lamp	10D	HFT	Flow Trough Heater
4E	R1	Salt Indicator Relay	10D	TF	Thermo-fuse of Heater
5D	TL	Thermic of Circulation Motor	10D	THS	Security Thermostat
5D	SPM	Circulation Pump Motor	10F	ST65	65° Temp. Selection Switch
5D	C	Capacitor	11D	I4	65° Temp. Selection Switch
6D	RV	Regeneration Valve	11F	TH50	50° Thermostat
7D	DD/DR	Thermoactuator Dispenser Unit	12D	TM	Timer Motor

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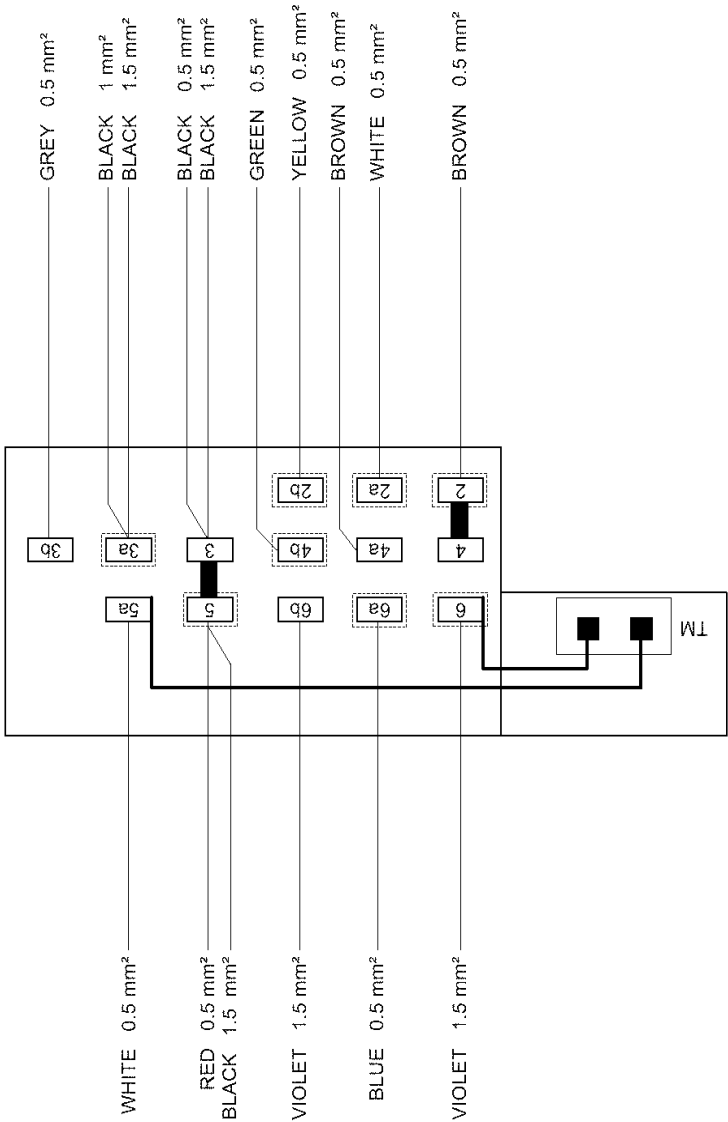
PS : Pressure Switch
T : Thermostat

Timer Part Number : 18 9803 01 00

1898010500

Text/Legend

Timer



Timer Part Number : 18 9803 01 00



Terminal with insulation housing



Terminal without insulation housing

1717930504