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# Service Manual

## Dishwasher

### ADP 741 WH/1

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	8542 741 64001	
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	Family	Standard Range AS1

## Technical data

### Dimension

Height	85,0	cm
Width	59,4	cm
Depth	60,0	cm
Weight	49,8	kg

### Specification / PI-Expression

Water consumption	26,0	l
Energy consumption	1,8	kWh
Program step	~ 89	min
Noise level		
- without door insulation	~ 60	dB (A)
- with door insulation	~ 58	dB (A)
Detergent	25-75	ml
Separate contained		
- chamber I	1/3	
- chamber II	2/3	
Salt consumption		
by 21° dh max.	83	g
Water connection	25	°C
Capacity	12	stand. place settings

### Volume

Water		
Working level	5,6	l
Safety level	11,0	l
Overflow-level	13,7	l
Detergent max.	75	g
Clear rinse	130	cm <sup>3</sup>
6 Dossier steps	1-6	cm <sup>3</sup>
Salt container	2	kg

### Flow Rates / Inlet Volumes

Spray pump	70	l / min
Drain pump	13,6	l / min
Height of drain hose max.	1,1	m
Length of drain hose max.	4	m
Water inlet electrovalve	5,0 ± 5%	l

### Water Pressure

Inlet pressure	1-10	bar
Spray pump pressure	0,37	bar

### Rotations

Spray pump - motor	2780	RPM
Drainpump - Motor	3000	RPM
Spray arm lower	48 ± 6	RPM
Spray arm upper	22 ± 6	RPM

### Electrical Data

Base level		
Voltage	220/230	V
Frequency	50	Hz
Total power	~ 2,2	kW
Fuses	10	A
Water connection up to	25	°C

### Timer

Model	EC 4649.01
Basic step time	15 s
4 Normal times	30/60/ 120/270 s
2 Complem. times	45/105 s

### Heating

#### 1 Element system

Voltage	220/240	V
Power consumption	2200	W
Resistance	~ 25,0	Ω

### Motor

#### Spray pump - motor

Voltage	220	V
Power consumption	130	W
HI	121	Ω
HA	30	Ω
Capacitor	3	μ F

#### Drainpump - motor

Voltage	220/240	V
Power consumption	30	W
Resistance	144	Ω

#### Timer motor

Voltage	220/240	V
Resistance	5,64+0,4	kΩ

### Valves

#### Inlet valve

Voltage	220/240	V
Resistance	3820	Ω

## Technical data

### Regeneration valve

Voltage	220/240	V
Power consumption	8	W
Resistance	2950	$\Omega$

### Thermostats

#### Thermostat 65°C with white colour indication

Switching on temperature	$68 \pm 3$	°C
Switching off temperature	$57 \pm 5$	°C

#### Reset safety thermostat

Switching on temperature	$85+5/-3$	°C
Switching off temperature	with manual reset	

### Water Levels

#### Basic-/Working level (in mm water column)

Switching point	$140 \pm 3$	mm w.c.
Reset point	$40 \pm 5$	mm w.c.

#### Safety level

Switching point	$151 \pm 3$	mm w.c.
Reset point	$100 \pm 5$	mm w.c.

### Water Measuring

Basic-/Working level	125	mm
Safety level (~ 10 l)	136	mm

### Regeneration and Volumes

Volume	360	cm <sup>3</sup>
Waterhardness	< 30°	dh

## Spare part list

Model ADP 741 WH/1  
Service No. 854274164001  
Version 854274164001

Pos. No.	12NC Code	Description
001 1	<b>4812 404 48578</b>	Bracket foot
011 0	<b>4812 505 18006</b>	Foot short, adjustable
030 0	<b>4812 310 18279</b>	Table top cpl. WH
034 0	<b>4812 404 78087</b>	Pin
034 1	<b>4812 404 78088</b>	Fastener
040 0	<b>4812 417 18309</b>	Hinge set
040 1	<b>4812 417 18311</b>	Cover,hinge set
044 0	<b>4812 492 38011</b>	Spring f.door left
044 1	<b>4812 492 38012</b>	Extension f. spring
044 2	<b>4812 492 38013</b>	Spring f. door right
045 0	<b>4812 404 48114</b>	Brake f.door
045 1	<b>4812 401 18079</b>	Band,brake
045 2	<b>4812 401 18081</b>	Hoop connection
053 0	<b>4812 440 88023</b>	Plinth sheet
053 1	<b>4812 440 18597</b>	Pedestal cover ri+le WH
053 2	<b>4812 440 18584</b>	Plinth middle part WH
103 0	<b>4812 440 18179</b>	Door outer WH
120 0	<b>4812 440 18474</b>	Door,inner
121 0	<b>4812 404 48577</b>	Batten cpl.
130 0	<b>4812 417 58019</b>	Tilt lock
131 0	<b>4819 401 18831</b>	Hook lock
191 0	<b>4812 466 68408</b>	Gasket door
191 1	<b>4812 466 68164</b>	Gasket door, inner
192 0	<b>4812 466 68163</b>	Gasket door, lower
200 0	<b>4812 418 18042</b>	Container insulated
200 1	<b>4819 535 78066</b>	Fastener container
241 0	<b>4819 458 68222</b>	Basket upper adjustable
241 1	<b>4819 404 79343</b>	Holder cup GR
241 3	<b>4819 528 78108</b>	Wheel,basket upper (set)
241 4	<b>4819 520 18036</b>	Holder guide basket set
241 5	<b>4819 505 18364</b>	Nut (8x)
242 0	<b>4819 458 68109</b>	Basket lower cpl. GR
242 1	<b>4819 528 78105</b>	Wheel,basket lower GR
242 2	<b>4819 458 68111</b>	Holder plate GR
243 0	<b>4819 458 68046</b>	Basket cutlery
261 0	<b>4819 462 38888</b>	Rail telescope, inner
261 1	<b>4819 462 88049</b>	Cap (4x)
301 0	<b>4812 453 78377</b>	Control panel WH
303 0	<b>4812 460 58019</b>	Grip WH
322 0	<b>4819 460 78604</b>	Insert panel WH
331 0	<b>4819 412 58646</b>	Knob program WH
400 0	<b>4812 361 58007</b>	Motor w.spray pump cpl.
405 0	<b>4812 360 18014</b>	Spray pump
405 1	<b>4819 515 28158</b>	Gasket
405 2	<b>4819 466 69401</b>	Gasket
405 3	<b>4819 440 19139</b>	Cap
420 0	<b>4812 121 18129</b>	Capacitor
421 0	<b>4819 121 18063</b>	Interf.filter
430 0	<b>4812 360 18022</b>	Pump,draining cpl.
450 1	<b>4819 532 68332</b>	Nut
450 3	<b>4819 404 79291</b>	Support
450 4	<b>4819 530 28996</b>	Tube
451 0	<b>4819 259 28903</b>	Tube,heating
480 0	<b>4819 320 58321</b>	Cable harness
480 1	<b>4819 466 98512</b>	Cover of cable

Pos. No.	12NC Code	Description
480 3	<b>4812 290 48003</b>	Cable separator
491 0	<b>4812 290 68051</b>	Terminal block
501 0	<b>4819 282 18721</b>	Timer EC4649.01
551 0	<b>4819 282 48198</b>	Thermostat 65 degree
564 0	<b>4819 282 48315</b>	Thermostat safety
564 1	<b>4819 404 79292</b>	Holder
564 2	<b>4819 532 68811</b>	Gasket
571 0	<b>4812 281 28059</b>	Valve,magnet inlet
575 0	<b>4819 281 28184</b>	Valve,magnet regen.
581 0	<b>4819 271 29004</b>	Pressostat
633 0	<b>4819 273 18252</b>	Microswitch door
680 0	<b>4812 418 68119</b>	Combidosage
680 1	<b>4819 468 18253</b>	Gasket set
681 0	<b>4812 462 78311</b>	Threaded cap
681 1	<b>4812 466 68444</b>	Gasket cover set
682 0	<b>4812 466 68445</b>	Gasket cover set
701 0	<b>4812 530 28081</b>	Hose, inlet 3/8Z cpl. 5m
701 0	<b>4812 530 28082</b>	Hose, inlet 3/8Z cpl. 3m
701 0	<b>4819 530 28283</b>	Hose, inlet 2m
701 1	<b>4812 310 18153</b>	Yoke clamp set
701 2	<b>4822 480 50159</b>	Sieve inlet
710 0	<b>4812 418 68108</b>	Monoblock
710 1	<b>4819 360 58381</b>	Floater
710 2	<b>4819 310 38536</b>	Threaded ring
710 3	<b>4819 466 69562</b>	Gasket set
714 0	<b>4819 462 78885</b>	Threaded cap
716 0	<b>4812 418 68115</b>	Reg.dosage set
716 1	<b>4819 466 69037</b>	Gasket
716 2	<b>4819 462 78504</b>	Can plug
721 0	<b>4819 535 88105</b>	Hub lower cpl. GR
721 1	<b>4819 535 98619</b>	Spray arm lower cpl. GR
721 2	<b>4819 505 18357</b>	Nut coupling GR
721 3	<b>4819 505 18354</b>	Nut
721 4	<b>4819 466 69398</b>	Gasket lower
721 5	<b>4812 502 18021</b>	Nut rotor lower
722 0	<b>4819 535 98621</b>	Spray arm upper GR
722 2	<b>4819 535 88107</b>	Bearing rotor hub GR
722 3	<b>4819 466 69396</b>	Gasket
722 4	<b>4819 466 69399</b>	Gasket upper
723 0	<b>4819 360 69675</b>	Set of nozzles GR
723 1	<b>4819 466 68908</b>	Gasket
725 0	<b>4819 532 88044</b>	Funnel GR
726 0	<b>4812 530 28746</b>	Hose
726 1	<b>4819 530 28539</b>	Drainhose inner connecting
726 2	<b>4819 530 28538</b>	Hose bow
751 0	<b>4812 418 18043</b>	Water collector
751 1	<b>4819 515 28157</b>	Tube,stabilizer cpl.
753 0	<b>4812 530 28095</b>	Suction pipe set
753 1	<b>4812 530 28736</b>	Chamber,air
755 0	<b>4812 530 28094</b>	Bend
755 1	<b>4819 404 49567</b>	Holder thermostat
761 0	<b>4812 480 58048</b>	Sieve fine
761 1	<b>4819 532 68331</b>	Gasket
762 0	<b>4819 480 58084</b>	Microfilter
763 0	<b>4812 480 58049</b>	Sieve coarse

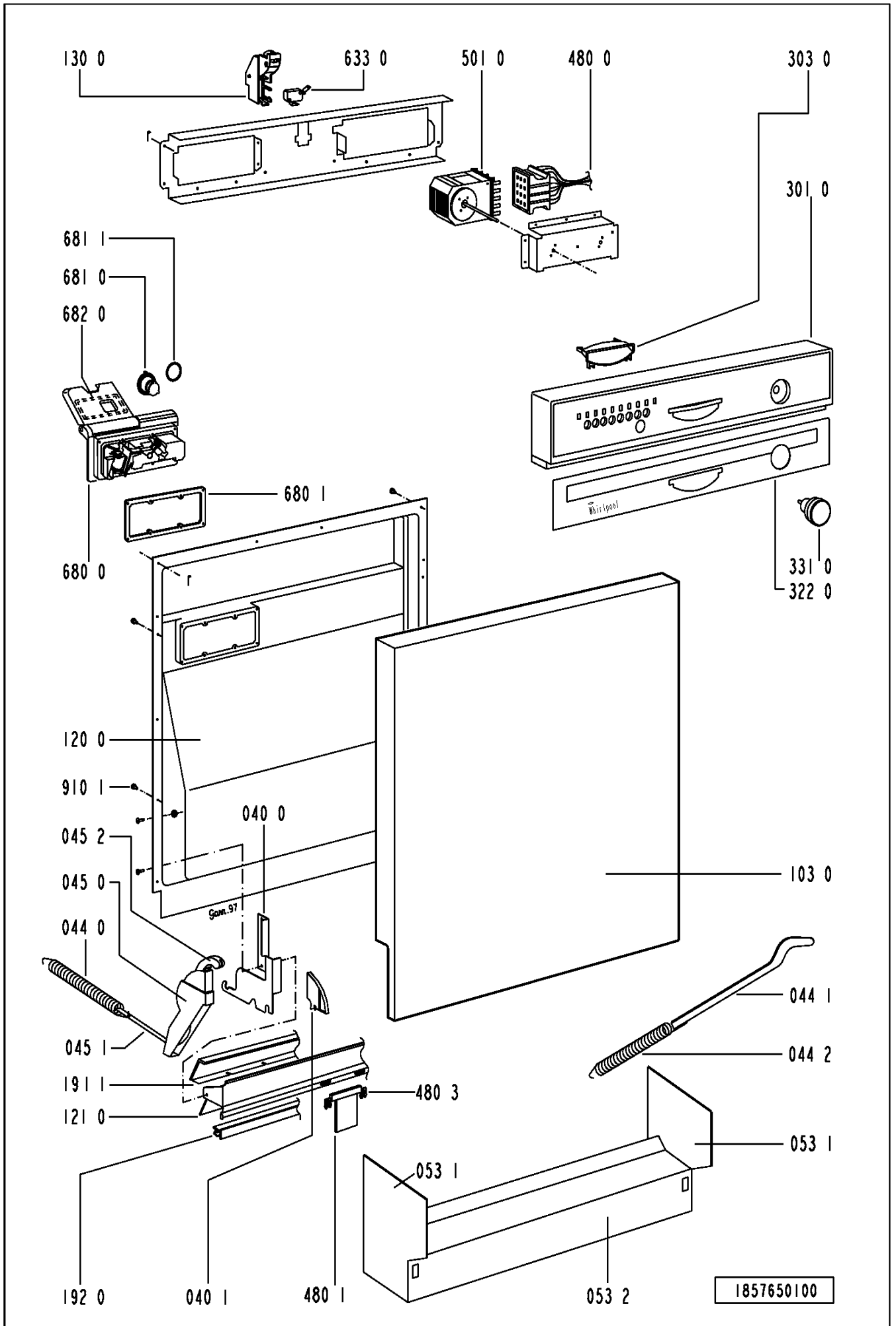
## Spare part list

**Model** ADP 741 WH/1  
**Service No.** 854274164001  
**Version** 854274164001

Pos. No.	12NC Code	Description
781 0	<b>4812 530 28737</b>	Hose,draining
781 2	<b>4819 492 68405</b>	Clip f.non-return valve
781 3	<b>4812 360 58095</b>	Flap f.non-return valve
783 0	<b>4812 530 28097</b>	Hose
783 1	<b>4819 530 28997</b>	Hose
783 2	<b>4819 530 28998</b>	Hose
783 3	<b>4819 530 28999</b>	Hose
783 7	<b>4819 530 29002</b>	Hose
794 1	<b>4819 468 18254</b>	Gasket
901 0	<b>4819 401 18808</b>	Strap 30 mm
901 1	<b>4819 401 18809</b>	Strap 17,5 mm
901 2	<b>4819 401 18811</b>	Strap 47 mm
901 3	<b>4819 401 18821</b>	Strap 130-150
901 4	<b>4819 401 18813</b>	Strap 82 mm
901 5	<b>4819 401 18814</b>	Strap 42,5 mm
901 6	<b>4819 401 18815</b>	Strap 60 mm
901 7	<b>4819 401 18816</b>	Strap 13,5 mm
901 8	<b>4819 401 18812</b>	Strap 8 mm
902 2	<b>4812 290 48007</b>	Strain relief
903 0	<b>4819 466 68905</b>	Fixation door
910 0	<b>4819 502 18464</b>	Screw
910 1	<b>4812 502 18019</b>	Screw
964 0	<b>4812 460 58096</b>	Tape,sealing
993 0	<b>4812 530 48017</b>	Bow
993 5	<b>4822 532 80216</b>	Funnel salt



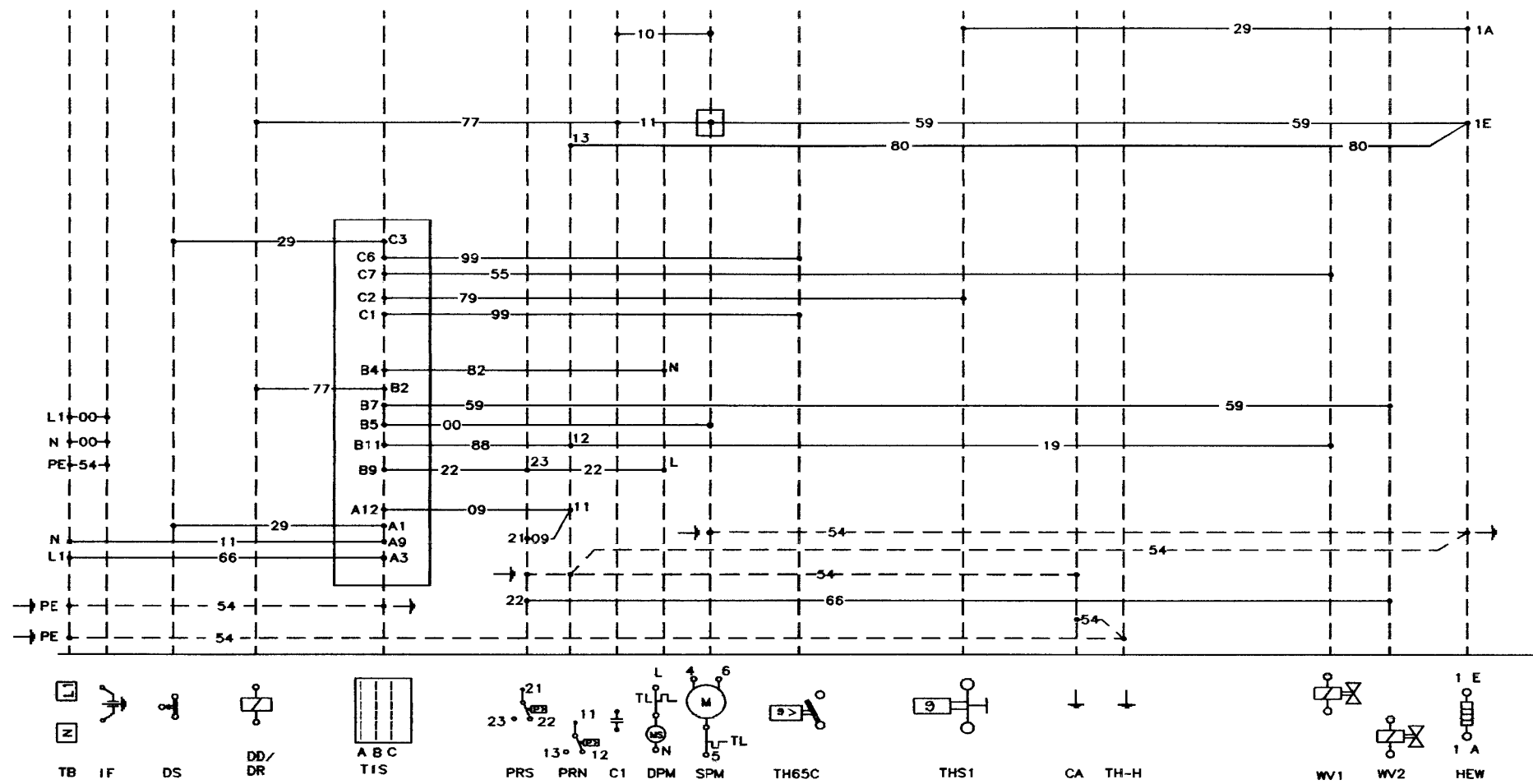
**Exploded view**







Wiring diagram

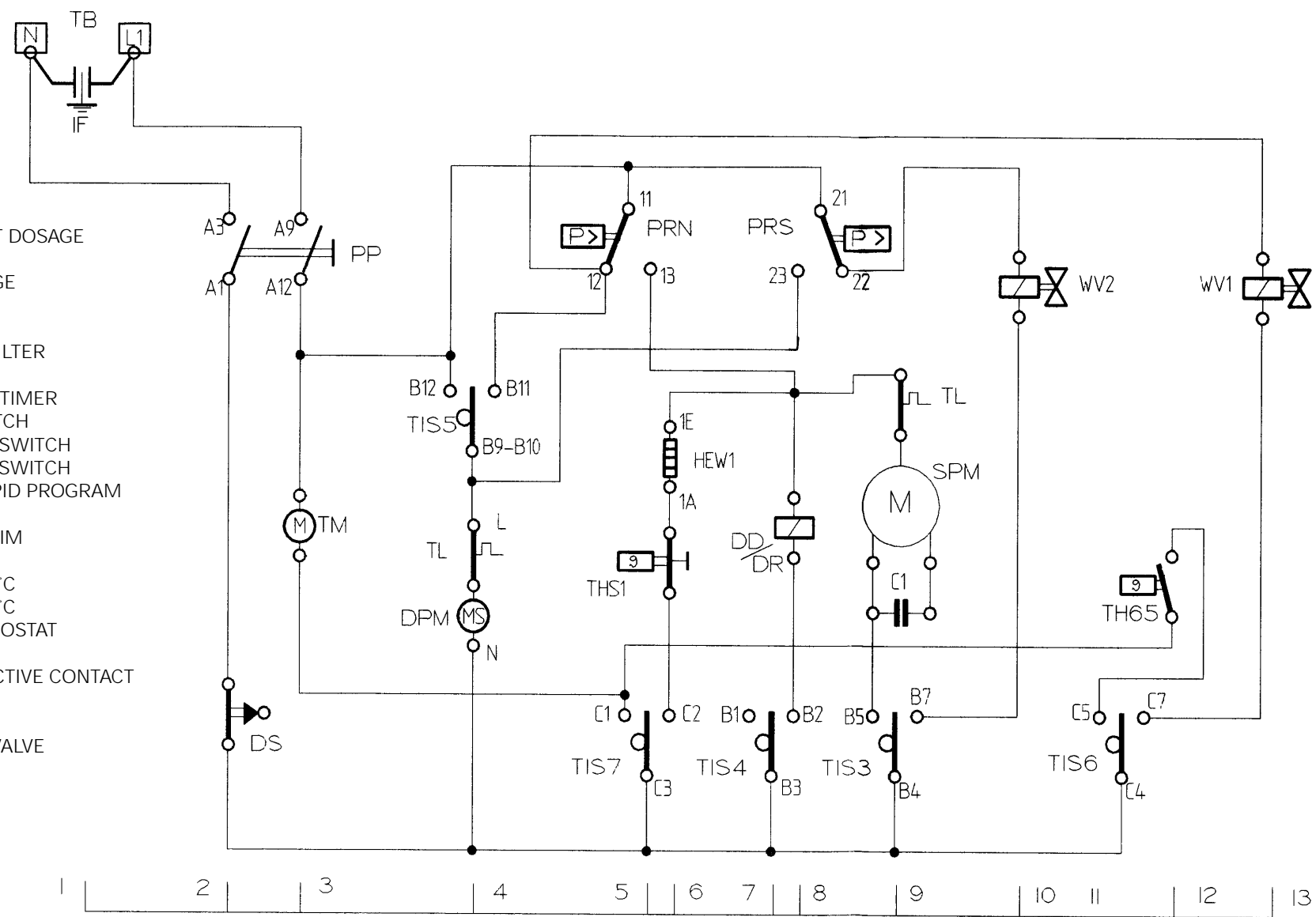


00	black	21	red-brown	34	orange-yellow	66	blue	82	grey-red
09	black-white	22	red	44	yellow	69	blue-white	88	grey
10	brown-black	29	red-white	54	green-yellow	77	violet	99	white
11	brown	31	orange-brown	55	green	79	violet-white		
19	brown-white	33	orange	59	green-white	80	grey-black		

Timer EC 4649.01  
1855160200

**Circuit diagram**

- C1 CAPACITOR
- DD CLEANING AGENT DOSAGE
- DPM DRAINPUMP
- DR RINSE AID DOSAGE
- DS DOOR SWITCH
- HEW HEATER
- IF INTERFERENCE FILTER
- LS6 FLOAT SWITCH
- PP MAIN SWITCH IN TIMER
- PRL BASE LEVEL SWITCH
- PRN WORKING LEVEL SWITCH
- PRS SECURITY LEVEL SWITCH
- PS3 BUTTON FOR RAPID PROGRAM
- SPM PUMP MOTOR
- TB DISTRIBUTION TRIM
- TH/H EARTHING
- TH55 THERMOSTAT 55 °C
- TH65 THERMOSTAT 65 °C
- THS1 SECURITY-THERMOSTAT
- TIS TIMER CONTACT
- TL WINDING PROTECTIVE CONTACT
- TM TIMER MOTOR
- WV1 INLET VALVE
- WV2 REGENERATING VALVE



TIMER EC 4649.01  
 1855210000

