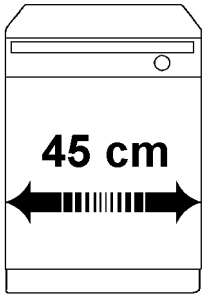
Whirlpool



Service Manual

Dishwasher integratable ADG 758

Model ADG 758
Version 8511 155 10811

Date: 16.11.2005 (Mod. 01)
Document-No.: 4812 728 11715

Subject to modification

Technical data

Dimension

Height	82.0 - 87.0	cm
Width	44.8	cm
Depth	57.0	cm
Weight	36	kg

Wooden door for Full Door appliances

Thickness min.	16	mm
Thickness max.	20	mm
Width min.	442	mm
Width max.	448	mm
Height min.	650	mm
Height max.	720	mm
Weight min.	2.5	kg
Weight max.	6.2	kg
Max. stick out over lower edge of appliance door	90	mm
Height of plinth min.	93	mm

Electronic boards

Service boards	see spare part list

Succession of programs

Programs	see program diagram
Succession	Prewash, cold
	Delicate 45˚
	Bio/ Eco 55˚
	Normal 65˚
	Intensive 70˚

Datas Energy Label

Reference program	Bio/ Eco 55˚
Energy Performance	B
Cleaning Performance	A
Drying Performance	B

Alarms

Refill rinse aid
Refill salt

Option

Delay function

Program information

End - Acoustic signal

All programs will be locked after start. Changing the program or finishing the program will be possible only after pressing the start button for longer then 1.5 sec. (Break by customer)

A switching off the appliance or unplug the appliance for a while, this will frozen the program step and later on, the program continuos on the same position.
If the tank temperature is over 50 ˚C the program will restart 15 seconds after the door is closed to avoid overpressure inside the tank.
Exception: Switching off the appliance or unplug the appliance during the drying phase, this will lead directly to the end of the program.

Volume

Detergent	48	ccm
Clear rinse containing	140	ccm
Adjustable	1 - 6	
Rinse aid dosage	1 - 4	ccm
Capacity	10 stand. place settings	
Water connection up to	60	˚C

Electrical base data

Voltage	220-230	V
Frequency	50	Hz
Total power	2.2	kW
Fuse	10	A

Spray pump motor

Voltage	220-240	V ± 10%
Frequency	50	Hz
Power consumption	150	W
Rotation	2950	RPM
Capacitor	6	µ F
Resistance (20˚C)		
primary winding	~ 44	Ω ± 7%
start winding	~ 50.5	Ω ± 7%

Drain pump motor

Voltage	220-240	V ± 10%
Frequency	50	Hz
Power consumption	34/ 30	W
Resistance winding	155/ 170	Ω ± 10%
Maximal head	1	m
Maximal flow rate	20	l/min

Heating - 1 Element flow through system

Voltage	230	V
Power consumption	2.04	kW
Resistance	25	Ω ± 10%
Thermal protection	98	˚C ± 5˚C
Thermal Fuse	206	˚C ± 10˚C

Technical data

Water safty options

Waterstop system	Aquasafe	

Water inlet valve/ Aquastop

Voltage	220-240	V ± 10%
Frequency	50/ 60	Hz
Inlet pressure	0.5 - 10	bar
Flow rate	3.5	l/min ± 7%
Resistance	~ 4.12	kΩ

Regeneration valve

Voltage	220-240	V
Frequency	60	Hz
Resistance	~ 3.75	kΩ

Coil of dispenser

Voltage	220/ 240	V ± 10%
Frequency	50/ 60	Hz
Resistance	~ 1.33	kΩ

Level pressure switch and Door micro switch

Max carrying capacity of the contacts	250 V	14 (4) A

NTC

23 ˚C	~ 14	kΩ
25 ˚C	~ 11,5	kΩ
30 ˚C	~ 9,5	kΩ

Indication lights

Voltage	230	V
Power consumption	0.5	W

Micro switch safty device

Voltage	250	V
Power consumption	3 (4)	W

Push buttons

Voltage	250	V
Power consumption	16 (4)	W

Suppressor

Capacitor (Y)	1 x 0.1 µ F (X1) + 2 x 2700 pF	
Resistance	2.2	MΩ

Safty system against water-leakage

Aquastop + floater switch
(Floater switches of the inlet valve and on the drain pump)

Regeneration and Volumes

Salt container volume	1.5	kg
Volume for regeneration	320	cm^3
Default Water hardness setting	3	

Adjustment on display	German degrees ˚dH	French degrees ˚fH	Regenaration
H0	< 9	< 15	Disabeld
H1	< 15	< 25	Every 5 cycles
H2	< 23	< 40	Every 4 cycles
H3	< 34	< 60	Every 3 cycles
H4	< 46	< 80	Every 2 cycles
H5	< 58	< 100	Every cycle

Spare part list

Model **ADG 758**
Service No. **851115510811**
Version **851115510811**

Pos. No.	12NC Code	Description
004 0	**4812 905 08205**	Drip tray assy
011 0	**4812 905 08128**	Foot
012 2	**4812 905 08148**	Fixation
012 3	**4819 905 01036**	Fastener
022 0	**4812 905 08544**	Side panel left
022 1	**4812 905 08545**	Side panel right
024 0	**4812 905 08211**	Container
040 0	**4812 905 08161**	Frame right
040 1	**4812 905 08162**	Frame left
040 2	**4812 905 08241**	Hinge right
040 3	**4812 905 08242**	Hinge left
040 4	**4812 905 08208**	Container
044 0	**4812 905 08234**	Spring Door
053 0	**4812 905 08202**	Plinth
065 0	**4819 905 00692**	Insulation door
065 8	**4812 905 08227**	Batten left
065 9	**4812 905 08228**	Batten right
066 0	**4812 905 08238**	Cover
100 1	**4819 905 00001**	Spacer Rubber
103 0	**4812 440 19835**	Door outer
120 0	**4812 905 08356**	Door,inner
130 0	**4812 905 08527**	Door lock
131 0	**4812 905 08536**	Lock hook
176 1	**4819 905 00036**	Protector
191 0	**4819 905 00569**	Gasket, door from 96/12
191 1	**4812 905 08197**	Protector
191 3	**4812 905 08004**	Corner piece
191 4	**4812 905 08179**	Bracket right
191 5	**4812 905 08181**	Bracket left
191 6	**4812 905 08376**	Support plinth
191 7	**4812 905 08163**	Gasket
191 8	**4812 905 08543**	Front trim
241 0	**4812 905 08195**	Basket upper cpl.
241 1	**4812 905 08159**	Guide
241 3	**4819 905 01224**	Wheel,basket upper
241 4	**4819 905 01225**	Bushing
242 0	**4819 905 01208**	Basket lower
242 1	**4819 905 00675**	Wheel,basket lower
243 5	**4819 905 00089**	Basket cutlery
243 6	**4819 905 01238**	Holder f.spoons
261 0	**4819 905 01214**	Guide f.basket
261 1	**4812 905 08146**	Basket Flap
261 2	**4819 905 01226**	Tailpiece ahead
261 3	**4819 905 01217**	Tailpiece guide
263 0	**4819 905 01215**	Small plate support
301 0	**4812 905 08873**	Control panel ADG 758 print
301 1	**4812 310 28261**	Plate KIT
332 0	**4812 905 08532**	Button Rubber
332 3	**4812 905 08533**	Switch on/off
351 0	**4812 905 08529**	Indication unit
354 0	**4812 905 08707**	Protector
400 0	**4812 905 08773**	Spray pump
405 0	**4812 905 08217**	Support motor
430 0	**4812 905 08156**	Pump,draining
450 0	**4812 905 08537**	Heating element

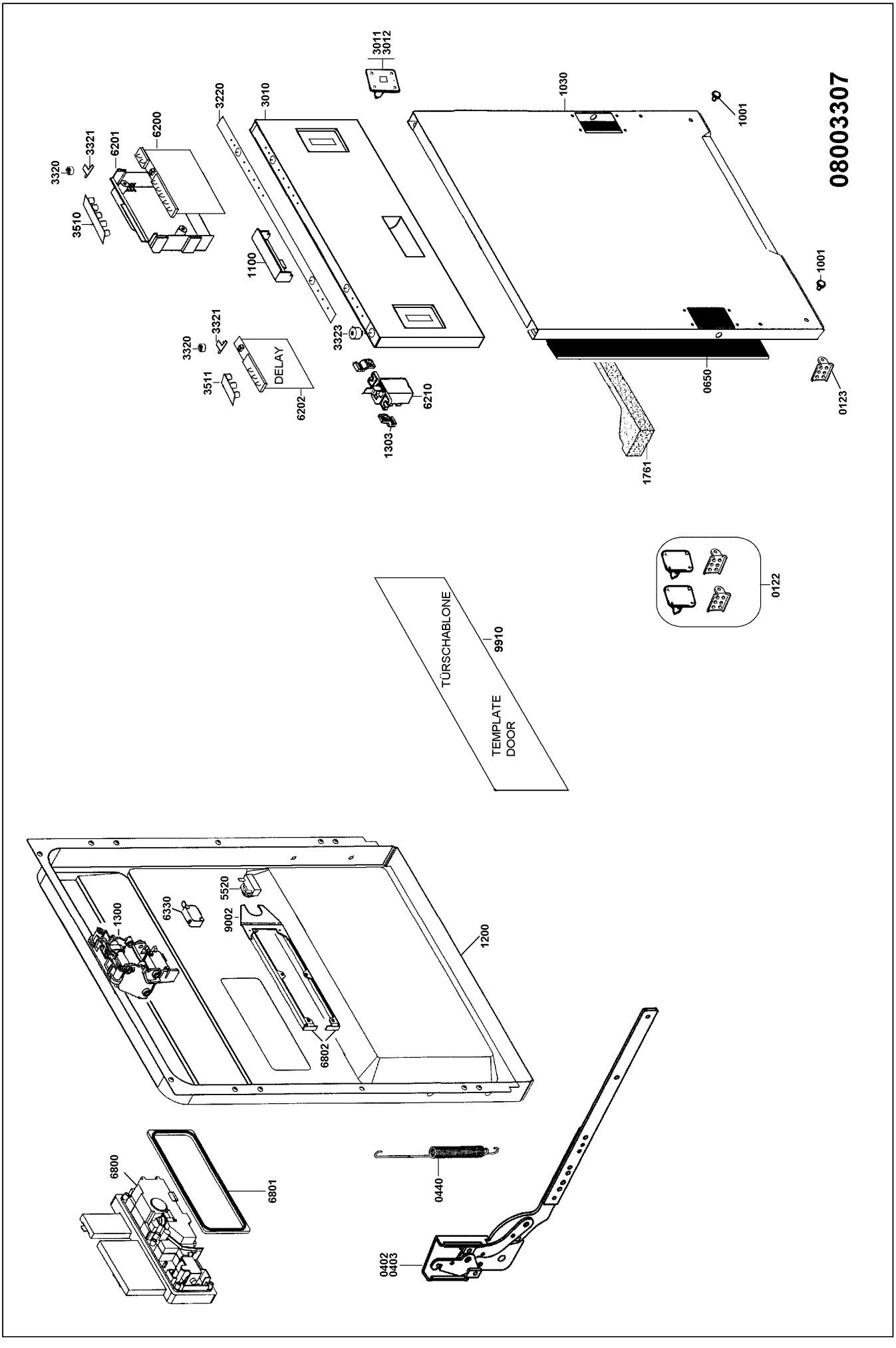
Pos. No.	12NC Code	Description
450 1	**4812 905 08538**	Connection SP/heatingelem.
480 3	**4819 905 00002**	Gasket
490 0	**4812 905 08155**	Cable
552 0	**4812 210 78011**	Thermostat
571 0	**4812 905 08369**	Inlet valve LV2405
571 1	**4812 905 08158**	Interf.filter
583 0	**4812 905 08194**	Pressostat
620 0	**4812 905 08824**	Timer 220730002*16700000
620 1	**4812 905 08138**	Protector
620 2	**4812 905 08638**	User board
621 0	**4812 905 08534**	Switchmechanism
633 0	**4812 905 08528**	Microswitch
680 0	**4819 905 01044**	Combidosage electr. Indicaton
680 1	**4819 905 00026**	Gasket border
680 2	**4819 905 00027**	Fastener combidosage
700 0	**4812 905 08347**	Hose, inlet
700 1	**4812 905 08373**	Hose
701 1	**4812 905 08337**	Bracket valve
710 0	**4812 905 08154**	Monoblock with Reed
710 2	**4812 905 08327**	Threaded ring
714 0	**4812 905 08153**	Threaded cap
716 0	**4812 905 08151**	Reg.dosage
716 1	**4812 905 08133**	Gasket
716 2	**4812 905 08132**	Collar
721 0	**4819 905 01145**	Hub f.sprayer lower
721 1	**4819 905 00067**	Spray arm below
722 0	**4812 905 08145**	Spray arm upper
722 2	**4812 905 08212**	Connection
722 3	**4812 905 08207**	Flap non-return
722 4	**4812 905 08213**	Connection
722 5	**4819 905 01223**	Gasket
723 0	**4819 905 01218**	Spray arm ceiling
723 1	**4812 905 08131**	Nozzle Ceiling
726 1	**4812 905 08183**	Hose
726 2	**4812 905 08185**	Threaded ring
726 3	**4812 905 08184**	Gasket
751 0	**4812 905 08169**	Water collector
756 0	**4812 905 08188**	Floater
761 0	**4812 905 08218**	Filter
761 3	**4812 905 08172**	Support
763 0	**4812 905 08173**	Filter
781 0	**4812 905 08135**	Hose,draining
781 3	**4812 905 08157**	Gasket
781 4	**4819 905 01144**	Rubber Motor
783 1	**4812 905 08187**	Hose
783 2	**4812 905 08168**	Hose Pump
783 3	**4812 905 08149**	Hose
783 4	**4812 905 08182**	Hose
783 5	**4812 905 08539**	Hose heating element
783 6	**4812 905 08192**	Hose
783 7	**4819 905 01197**	Hose
783 8	**4812 905 08196**	Drainhose
791 0	**4812 905 08186**	Flange
791 1	**4812 905 08167**	Gasket
794 0	**4819 905 01143**	Gasket ceiling sprayer

Spare part list

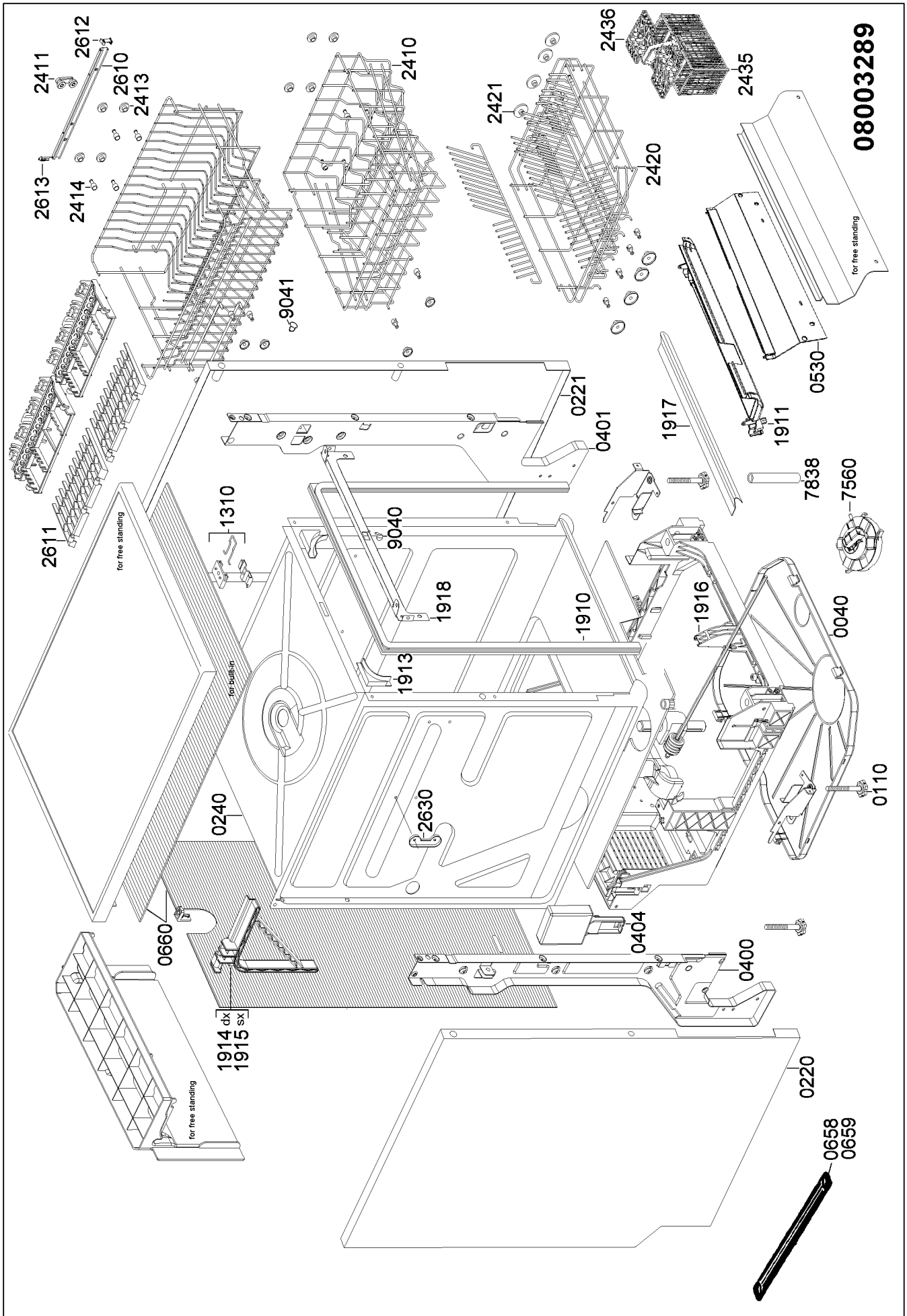
Model	**ADG 758**
Service No.	**851115510811**
Version	**851115510811**

Pos. No.	12NC Code	Description
794 7	**4819 480 53059**	Filter
900 2	**4819 905 00494**	Holder Thermostat
904 0	**4812 905 08147**	Stopper & 1201
904 1	**4812 462 79738**	Stopper
991 0	**4812 905 08414**	Template
993 5	**4819 905 00033**	Funnel

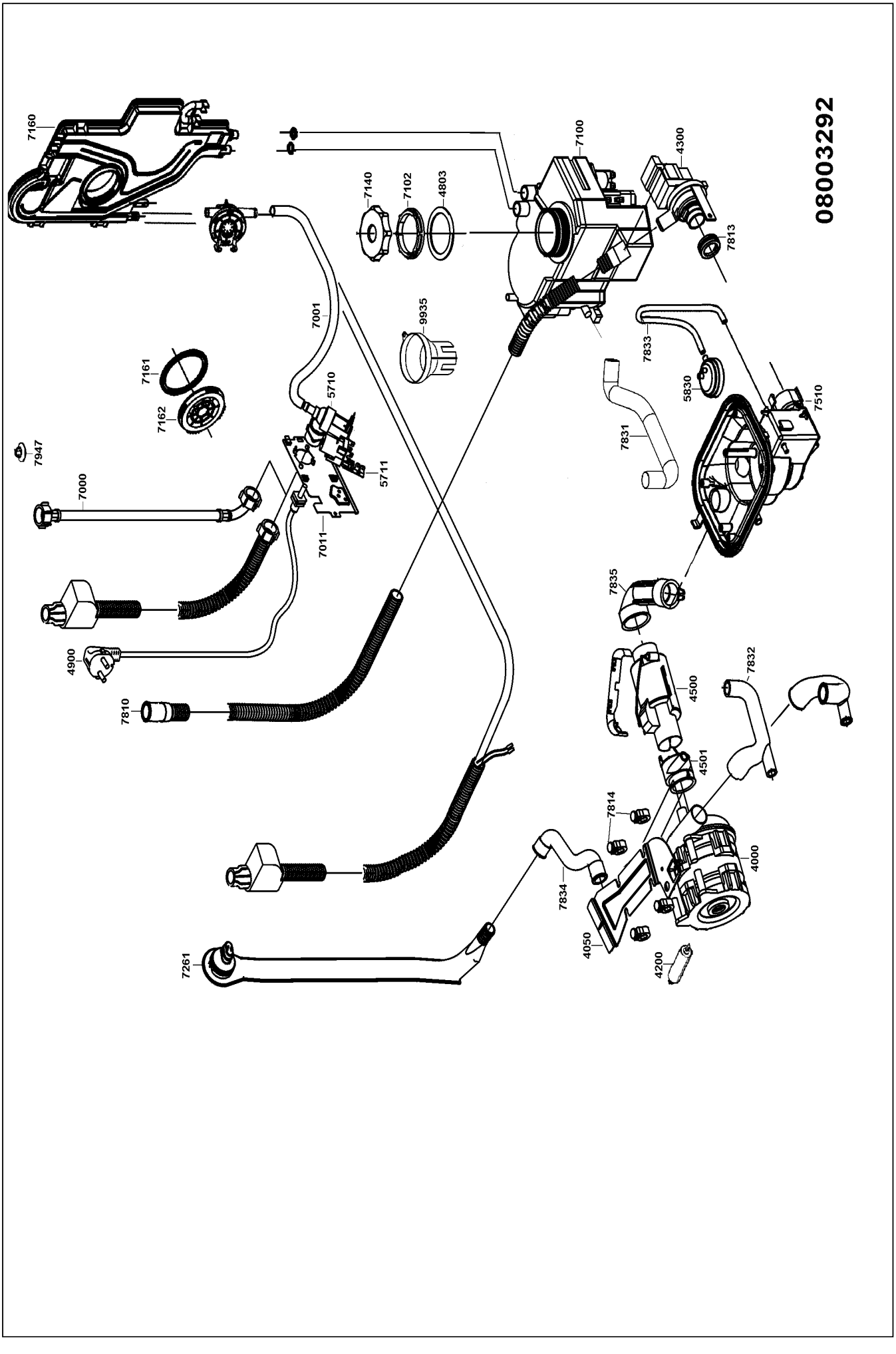
Exploded view



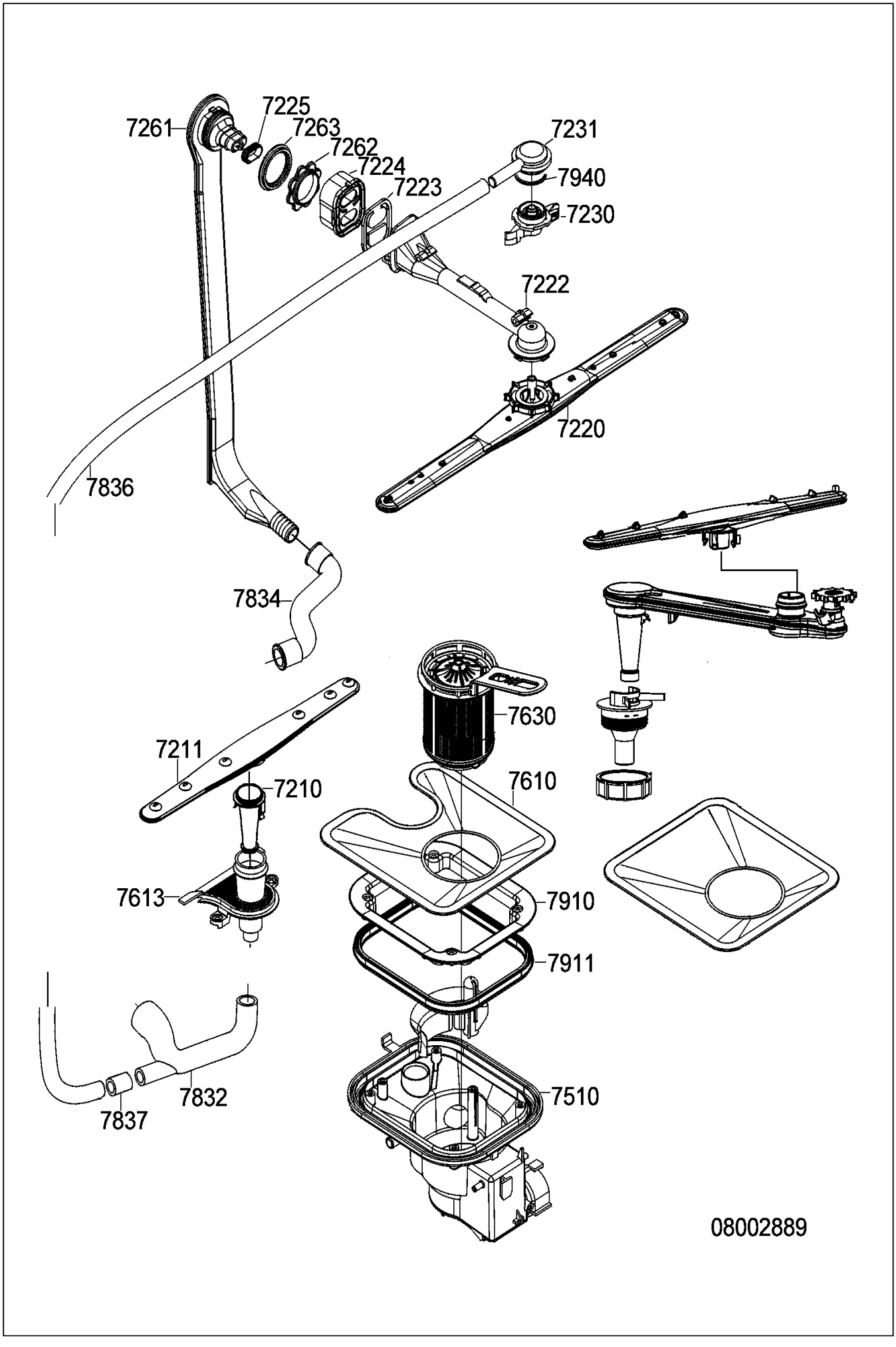
Exploded view



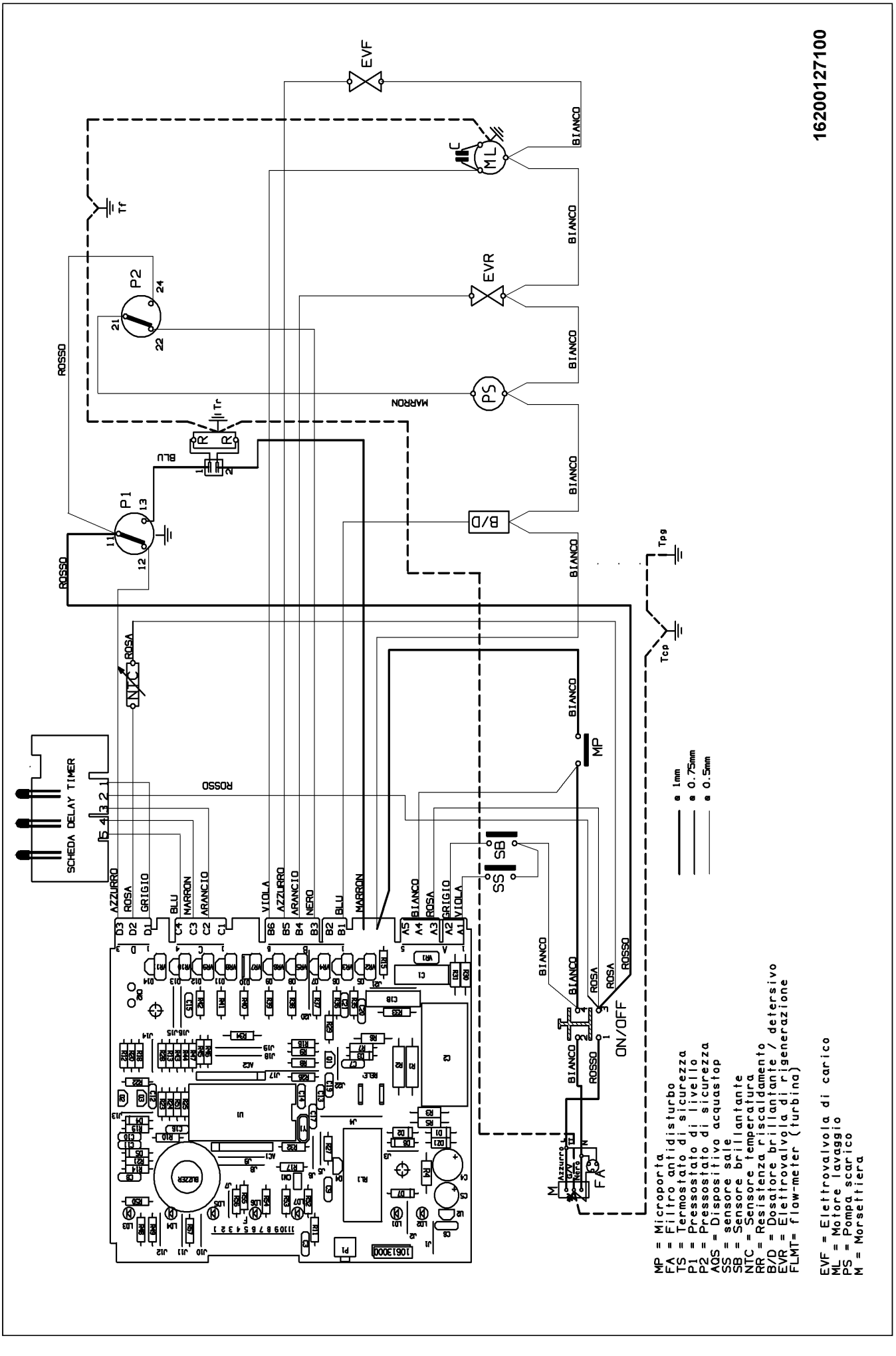
Exploded view



Exploded view

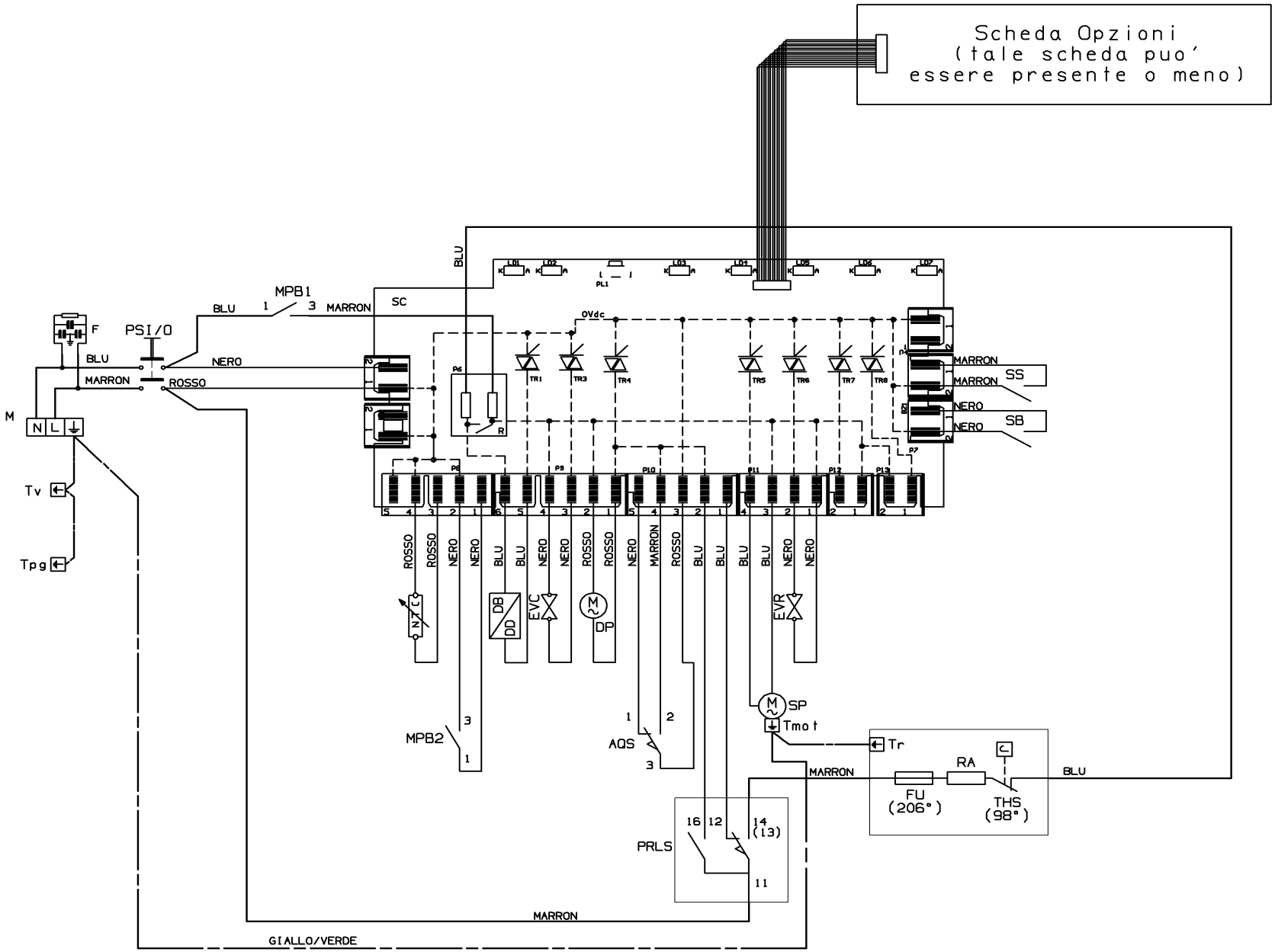


Wiring diagram



Circuit diagram

L/N	Line/ Neutral - Terminal block
F	Interference filter
I/O	ON/ OFF
FLMT	Flow meter
NTC	Thermostat temp. sensor
MPB1	Door microswitch 1
MPB2	Door microswitch 2
DDDB	Detergent dispenser
EVC	Water inlet valve
DP	Drain pump
AQS	Aquastop
PRLS	Pressostat
SP	Spray pump motor
EVR	Water regeneration valve
RA	Heating element
THS	Safty thermostat
FU	Fusible
MV	Fan
SB	Sensor rinse aid
SS	Sensor salt
DIV	Diverter position
MA	Diverter motor
TR	Triac
R	Rele
LD	LED
SC	Timer



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Text/Legend

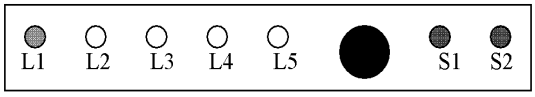
1 – INTRODUCTION

The present document describes the execution modality of the test programs for the 3rd generation electronic timers for full door led visualisation dishwashers.

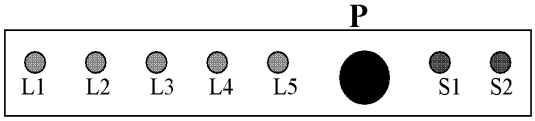
2 – Test program

2.1 – Setting modality

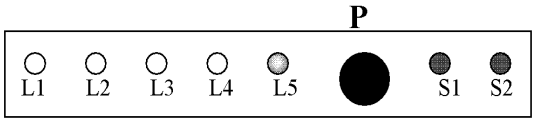
Before setting the test program, make sure that the dishwasher is in a starting status, in which the tub is empty. To do this, it is sufficient to set the modality “Setting a program to zero” that is described at point 2.3.
The test cycle can be set in the following way:



a) With the opened door, keep pushing on the P button for 30” till all LEDs are going on:



b) Within 3” leave the button and push it again to confirm the execution of the test program. The confirmation of this operation is shown by the blinking of the following LED :



L5 blinking

In the case of a wrong setting procedure the test cycle doesn’t start and one must repeat the from point (a)

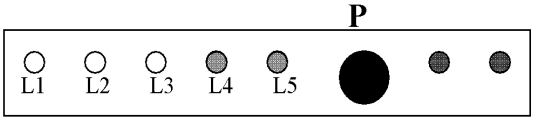
2.2) Leaving the test program

In order to leave the test program the dishwasher must be turned off; this means that if the dishwasher is being opened during the test program, this will not be stored inside the memory and for reactivation of the test program one must execute anew the “setting modality”

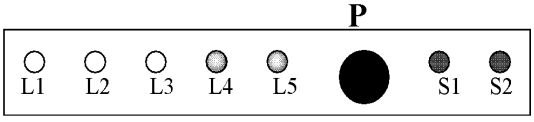
2.3) Setting the program to zero

In order to set a program to zero and bring the appliance to an starting status for the test cycle, perform the following operation:

a.) with the opened door keep on pushing on the P button till the following leds are going on:



Close the door and the appliance oges automatically in the drain moldality and at the end the leds L4 and L5 are blinking



L4 and L5 are blinking

Text/Legend

2.3) Execution of the test program

Test program for 45cm models.

Step	Description	Indicator status
1)	**WAITING TO START THE TEST PROGRAM**: The appliance with opened door is ready to perform the test program	
2)	**STARTING THE CHECK** Close the door; after some seconds the appliance starts loading (the first part with the motor keeping still, the second part with the motor working)	
3)	**OPENING OF THE DISPENSER UNIT** After the pressure switch level has been reached the dispenser unit is being activated.	
4)	**HEATING PHASE** The appliance is heating till it reachs a temperature of 50°C. During this phase it is possible to test the functioning of the antiflood safety device on the bottom tray, by lifting the polystyrene floater; durino this actionning the drain ha sto start ***<u>Notice: during this phase, by pushing on the program selection button, the timer is forced to step to following phase.</u>***	
5)	**WAITING FOR OPERATOR'S ACTION** Once the temperature of 50°C has been reached, the appliance gives an acustic signal. During this phase the regeneration valve is activated **<u>To proceed with the cycle the operator must push on the program selection button</u>**	
6)	**FINAL DRAIN** After having pushed the program selection button the appliance starts (or proceeds if already started) the draining and at the same time it activates the regeneration valve and the drying fan if present (and after the Empty signal of the rpessure switch)	
7)	**TEST END** After the final drain the appliance reaches the check end indicating it with L5 blinking and the other indicators on in a fix way.	

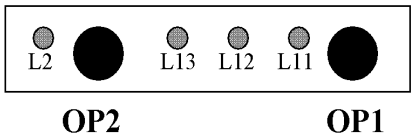
 LED IS BLINKING

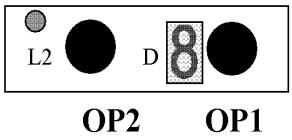
 LED IS ALWAYS ON

Text/Legend

2.5) FUNCTIONAL CHECK OF THE OPTINO MODULE (if present)

Set a program different from the Soak pz pressing the P button. The possible option modules are indicated below





c) Push several times on the OP1 button and verify that the Led sequence L11, L12, L13 are going on. Return to the situation with all lights off.
d) Push on OP2 button and check that the Led L2 is going on. Push again OP2 and check that the L2 light goes off.

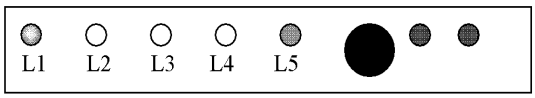
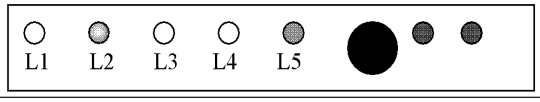
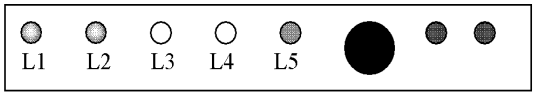
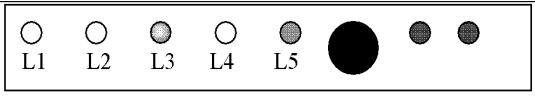
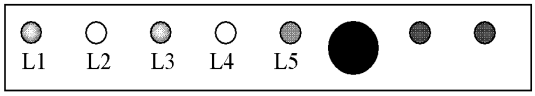
a) Push several times on the OP1 button and verify that the numbers on the displaz pass from -,1,2,…etc. return to the starting point with the slah (-).
b) Push on OP2 button and check that the Led L2 is going on. Push again OP2 and check that the L2 light goes off.

GENERAL CHECKS TO PERFORM DURING THE TEST PROGRAM

1) Check if there are any water leakages
2) Check the functionality of the salt and rinse aid indicators (if present)
3) Check of the functionality of the sky wash (if present)

3) Alarms

in the following the chart indicates possible errors that may be found.

Alarm/description	Visualisation
E1 - Fault in Acquastop device	
E2 – Safety level	
E3 – No heating	
E4 – NTC not connected	
E5 – No water loading	
E6 – No drain