



Service Manual

Microwave oven

AVM 441 WH

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Introduction safety

INTRODUCTION

Before leaving the factory each oven is carefully checked.
It must, however, be installed and used correctly.

Despite all the steps taken to make the oven safe, the safety is dependent on the correct installation and the fact the user understands how to use and maintain the oven.

The information in this section should be used as a reminder that the oven is safe and that anyone who uses it must first read the instructions for use in order to be able to use the oven correctly and obtain best results.

SAFETY

To avoid injury to yourself and damage to the appliance always work to the following rules when servicing an oven.

Always disconnect the plug from the mains before starting work.

If there is no plug switch off the electric supply at the control box.

When you have finished servicing an oven before you reconnect it to the mains, make sure that:

- all the internal connections are correct
 - the wires are insulated and not touching the door or the cabinet or anything sharp
 - all the earth connections are electrically and mechanically sound
 - do not modify or anyway interfere with the safety devices built-in to the oven
- make sure that each replacement part you use conforms to the manufacturer's specifications

Do not start a repair if you have any doubt as to your ability to complete it.

CAUTION - MICROWAVE RADIATION

PERSONNEL SHOULD NOT BE EXPOSED TO THE MICROWAVE ENERGY WHICH MAY RADIATE FROM THE MAGNETRON, WAVEGUIDE OR ANTENNA IF THEY ARE IMPROPERLY USED OR CONNECTED. ALL INPUT AND OUTPUT MICROWAVE CONNECTIONS, WAVEGUIDES, FLANGES AND GASKETS MUST BE SECURE. NEVER OPERATE THE DEVICE WITHOUT A MICROWAVE ENERGY ABSORBING LOAD ATTACHED. NEVER LOOK INTO AN OPEN WAVEGUIDE OR ANTENNA WHILE THE DEVICE IS ENERGIZED. NEVER OPERATE AN OVEN WITH CABINET OFF WITHOUT MEASURING THE MICROWAVE LEAKAGE AROUND MAGNETRON AND VISIBLE MICROWAVE CONNECTIONS (WELDING JOINTS).

Do not operate the oven if the following conditions exist:

- the door does not close firmly against the door support because of the door being warped or the hinges damaged.
- The door trims or seals are damaged.
- If there is any visible damage to the oven.
- if the door does not close properly.

Avoid operating the oven if known components in the interlock system, oven door or microwave generating assembly are known defective. They must be replaced.

WARNING - HIGH VOLTAGE

IT IS POSSIBLE TO COME IN CONTACT WITH LETHAL HIGH VOLTAGE WHEN WORKING WITH HV TRANSFORMER, HV CAPACITOR AND MAGNETRON. THEREFORE NEVER TRY TO MEASURE THE HIGH VOLTAGE. ALWAYS TAKE UTMOST CARE WHEN PERFORMING ELECTRIC MEASUREMENTS INSIDE THE OVEN.

Technical data**Dimensions of cabinet**

Height	185	mm
Width	335	mm
Depth	290	mm

Cavity

Cavity volume	20	l
Turntable diameter	280	mm

Weight

Net	16.5	Kg
Packed	18.0	Kg

Electrical

Voltage	230-240	V
Frequency	50	Hz
Power consumption	2550	W
Current consumption	11	A
Fuse	10	A

Power

Output power	900	W
Microwave frequency	2450	MHz
Quarzgrill	1000	W

Timer

90 min.

Accessories

Built in kit (optional)

Spare part list

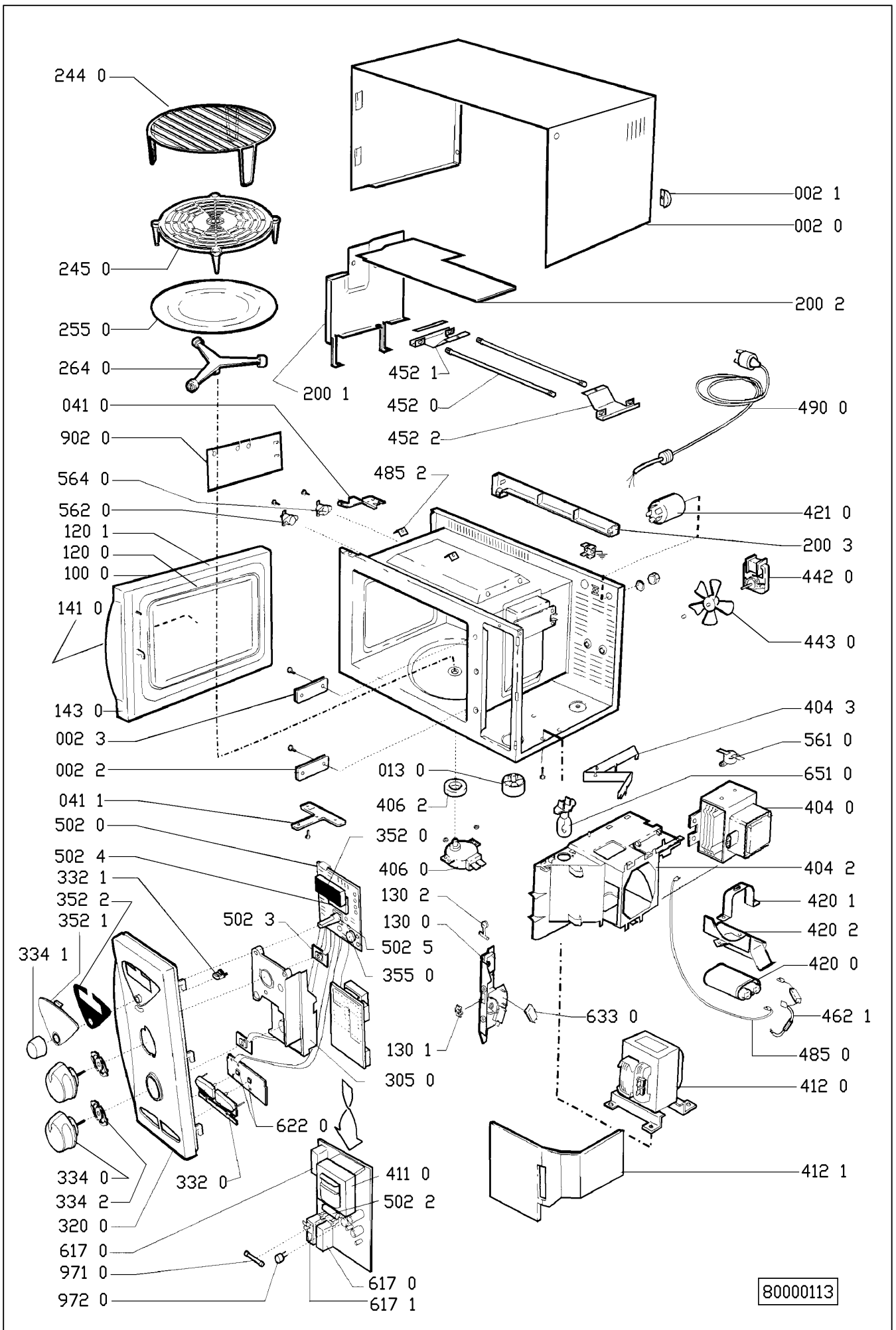
Model
Service No.
Version

AVM 441 WH
853844119291
853844119291

Pos. No.	12NC Code	Description
002 0	4819 440 59448	Cabinet WH
002 1	4819 466 98741	Spacebar WH
002 2	4819 442 38357	Cover plate lower
002 3	4819 440 59444	Cover plate upper
013 0	4819 462 79423	Foot
041 0	4819 417 19514	Hinge,upper
041 1	4819 417 19248	Hinge,lower
100 0	4819 442 38721	Door
120 0	4819 440 59865	Door,inner
120 1	4819 459 48654	Door frame inner
130 0	4819 271 38148	Unit,pushbutton
130 1	4819 466 89172	Clip
130 2	4819 404 78492	Lever
141 0	4819 450 58113	Oven glass
143 0	4819 459 48659	Door frame outer WH
200 1	4819 462 38672	Air guide side
200 2	4819 462 38671	Air guide top
200 3	4819 462 38669	Air guide rear
244 0	4819 458 19898	Stand high
245 0	4819 466 98731	Stand optional
255 0	4819 466 78218	Turntable glass
264 0	4819 535 78131	Crosspiece for turntable
305 0	4819 442 38717	Holder
320 0	4819 453 58574	Control panel
332 0	4819 410 28881	Button,push
332 1	4819 410 28882	Button,push
334 0	4819 413 59051	Knob
334 1	4819 413 59052	Knob
334 2	4819 492 58141	Spring
352 0	4819 130 38081	Display
352 1	4819 450 58107	Panel
352 2	4819 466 99101	Protection
355 0	4819 280 18033	Buzzer
404 0	4819 131 58019	Magnetron
404 2	4819 526 48298	Air guide
404 3	4819 526 48297	Air guide
406 0	4819 361 18292	Motor for rotary plate
406 2	4819 532 68686	Gasket ring
411 0	4819 148 68085	Transformer
412 0	4819 145 78201	Transformer,HT
412 1	4819 462 38737	Air guide
420 0	4819 121 48016	Capacitor HT
420 1	4819 404 78491	Holder
420 2	4819 325 18036	Insulation
421 0	4819 121 18197	Filter mains
442 0	4819 361 18425	Motor
443 0	4819 515 48059	Fan
452 0	4819 259 98261	Tube,heating IR
452 1	4819 404 78613	Bracket left
452 2	4819 404 78511	Bracket right
462 1	4819 218 38039	Diode HV
485 0	4819 320 28037	Cable,HT
485 2	4819 466 98742	Guide cable
490 0	4819 321 18231	Cable,mains cpl. with clamp
502 0	4819 214 78575	Control unit

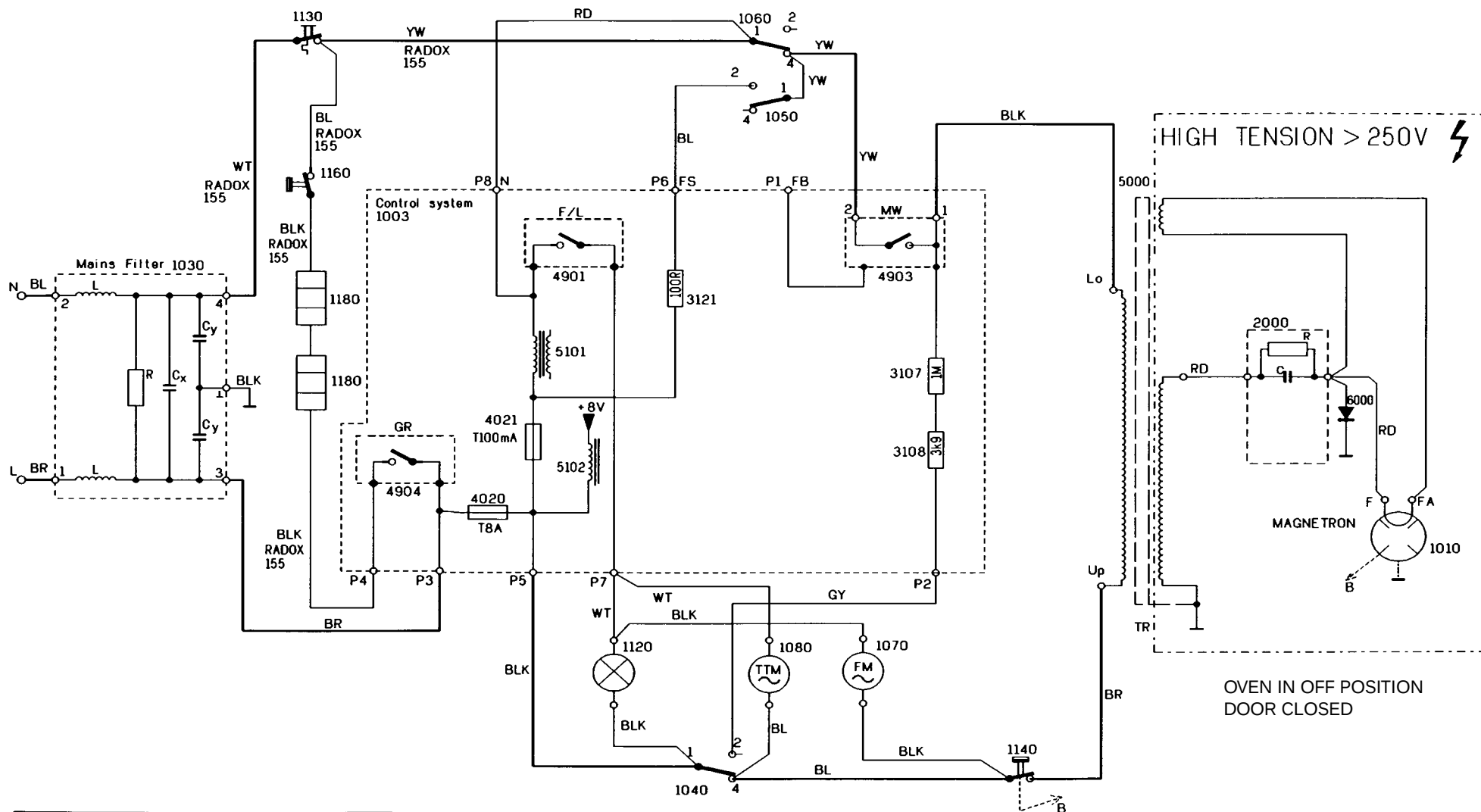
Pos. No.	12NC Code	Description
502 2	4819 113 88001	Resistor 100 Ohm
502 3	4819 101 48146	Potentiometer
502 4	4819 209 88054	Microprocessor
502 5	4819 101 48142	Potentiometer
561 0	4819 282 48247	Thermostat magnetron 145 C
562 0	4819 282 48248	Thermostat 165 C
564 0	4819 282 48243	Thermostat 120 C
617 0	4819 280 68319	Relay
617 1	4819 280 68321	Relay
622 0	4819 276 18273	Switch
633 0	4819 271 38161	Microswitch
651 0	4819 134 28029	Lamp cavity 240V - 25W
902 0	4819 325 28039	Foil holder
971 0	4819 252 28122	Fuse
972 0	4819 252 28121	Fuse

Exploded view



80000113

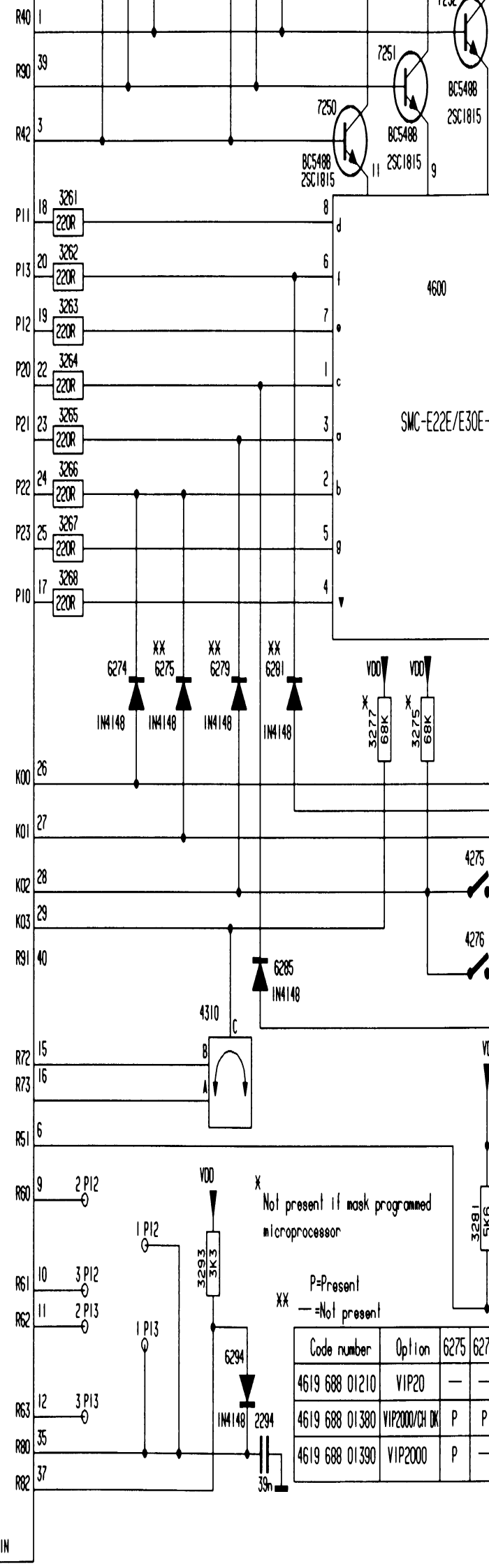
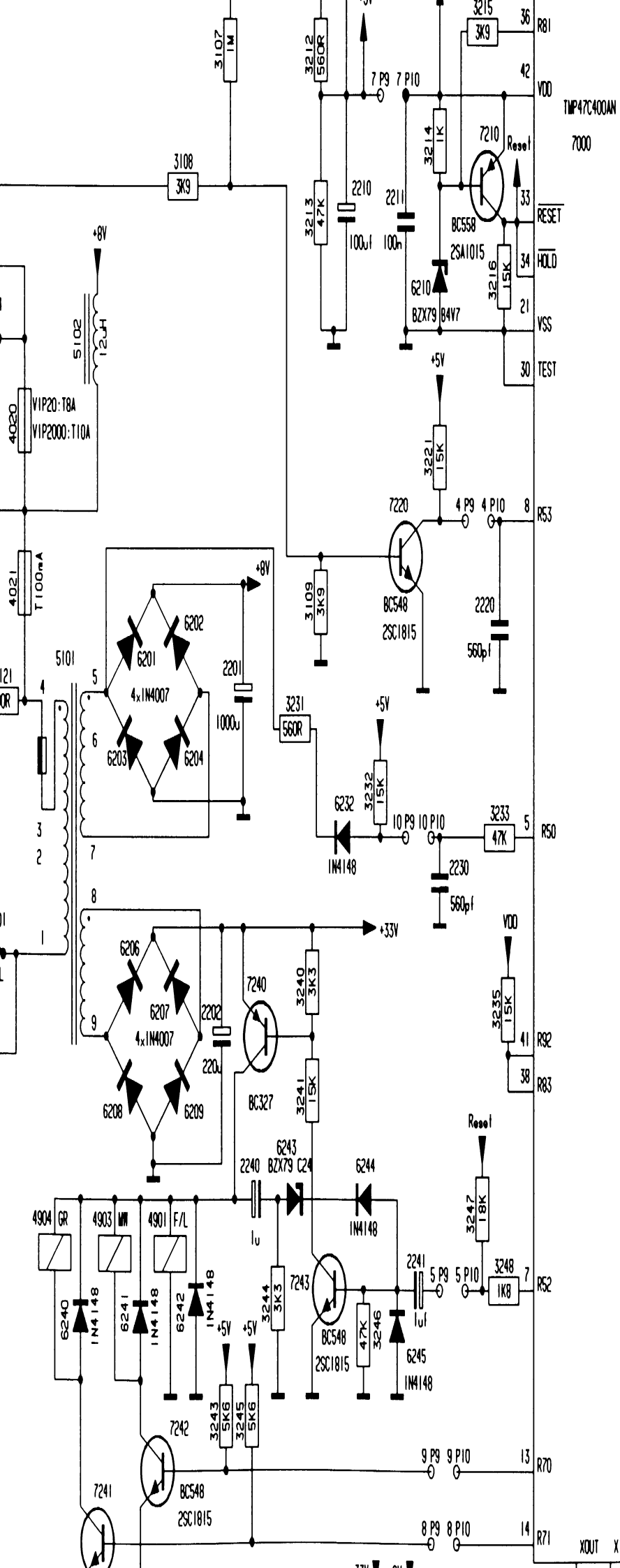
Wiring diagram



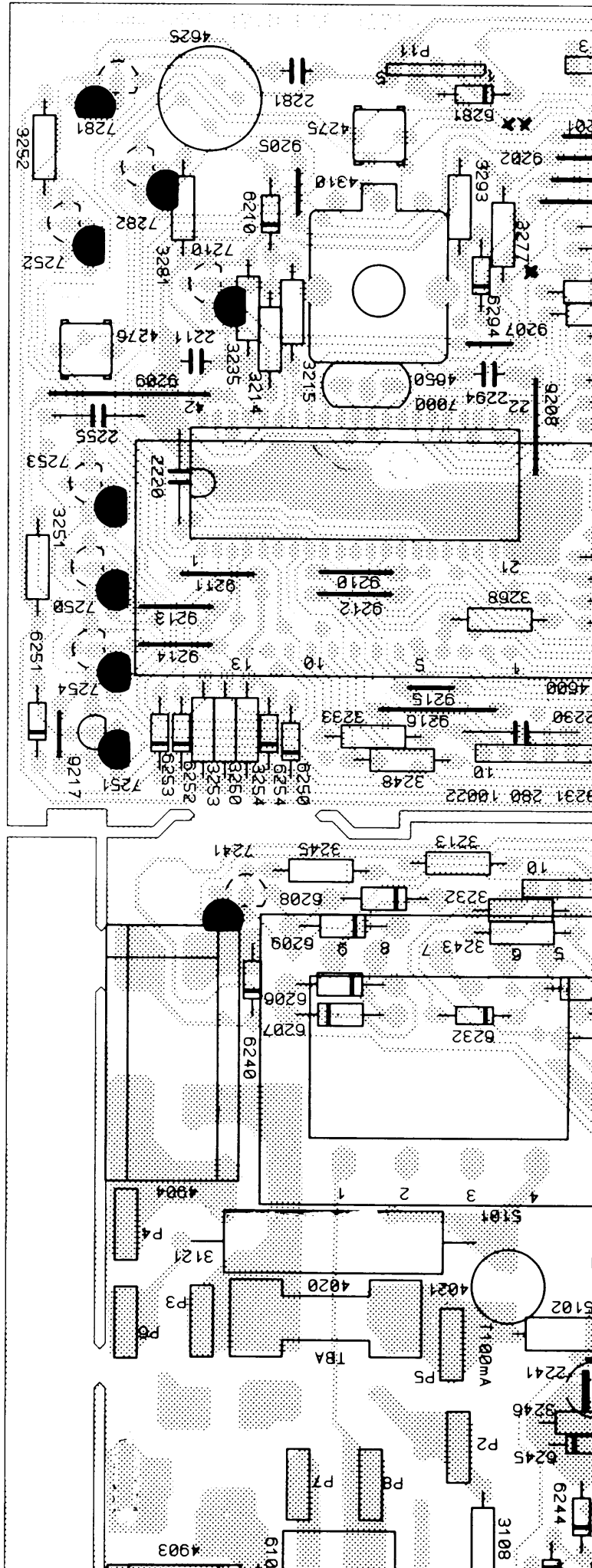
COLOUR CODE	FARBKODE	CODE DE COULEUR
YW	YELLOW	GELB JAUNE
WT	WHITE	WEISS BLANC
RD	RED	ROT ROUGE
GY	GREY	GRAU GRIS
BR	BROWN	BRAUN BRUN
BLK	BLACK	SCHWARZ NOIR
BL	BLUE	BLAU BLEU

1003	Control system	1070	Motor fan	1180	Heating element grill
1010	Magnetron	1080	Motor turntable	2000	HT capacitor
1030	Mainsfilter	1120	Cavity lamp	4020	Fuse T8A
1040	Doorswitch secondary	1130	Thermostat cavity	4021	Fuse T100mA
1050	Doorswitch monitor	1140	Thermostat magnetron	5000	HT transformer
1060	Doorswitch primary	1160	Thermostat grill	6000	HT diode

8538 446 31291



ber	Option	VIP20	1210
6281	6275	6279	6281



XX = Not present
P = Present

* Not present if mask programmed
microprocessor

Pos. 4020 : VIP 20 T8A
VIP 2000 T10A