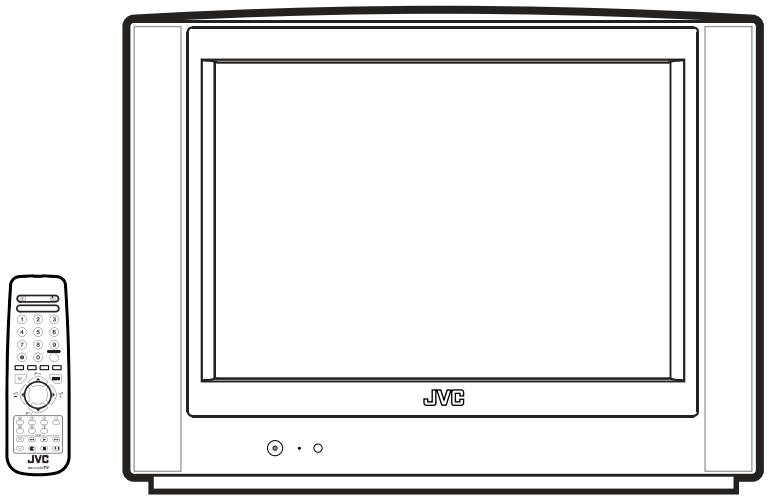
JVC

SCHEMATIC DIAGRAMS

COLOUR TELEVISION

AV-28KT1BUF/A, /B, /C,
AV-28KT1SUF/A, /B, /C

CD-ROM No.SML200310



No.52137
2003/10

AV-28KT1BUF/A/B/C
AV-28KT1SUF/A/B/C

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal	
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped	
(3)Internal resistance of tester	:DC 20kΩ/V	
(4)Oscilloscope sweeping time	:H	⇒ 20µS/div
	:V	⇒ 5mS/div
	:Others	⇒ Sweeping time is specified
(5)Voltage values	:All DC voltage values	

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	:[Ω]
K	:[K Ω]
M	:[M Ω]

● Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflammable resistor
FR	:Fusible resistor

∗ Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	:[pF]
less than 1	:[µF]

● Withstand voltage

No indication	:DC50[V]
Others	:DC withstand voltage [V]
AC indicated	:AC withstand voltage [V]

∗ Electrolytic Capacitors
47/50[Example]:Capacitance value [µF]/withstand voltage[V]

● Type

No indication	:Ceramic capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capacitor

(3)Coils

No unit	:[µH]
Others	:As specified

4.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE side GND and the ISOLATED(NEUTRAL) side GND.Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◇ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◇ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

Sep. 2003 No. 52137

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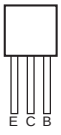
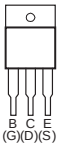
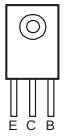
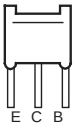
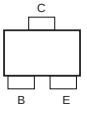
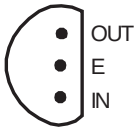
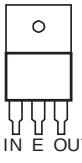
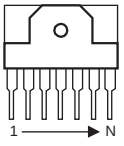
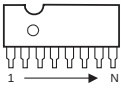
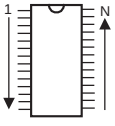
SEMICONDUCTOR SHAPES

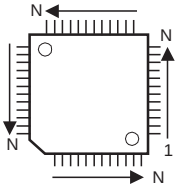
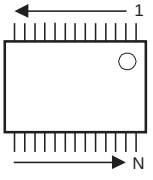
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

IC

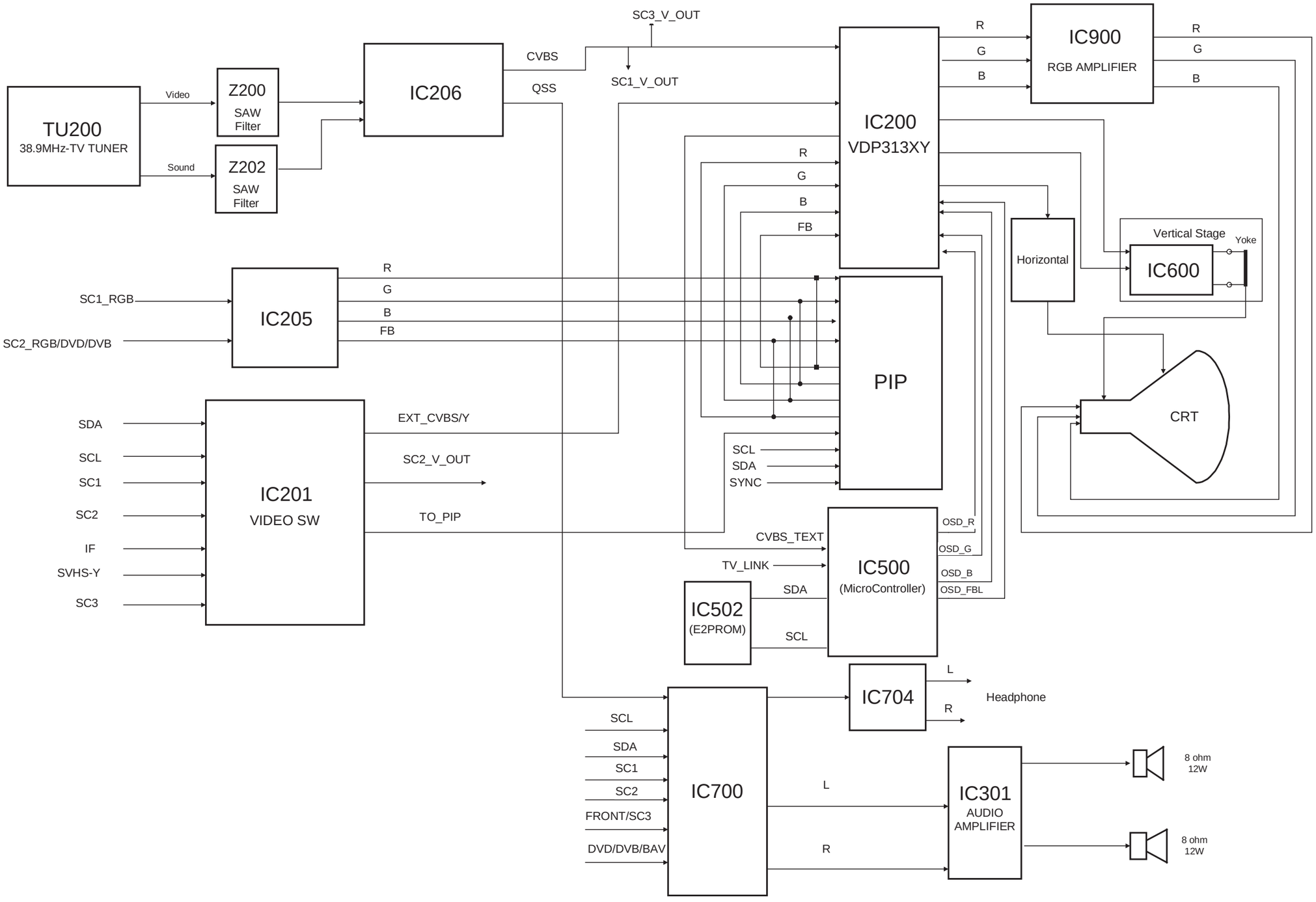
BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

TOP VIEW		
		

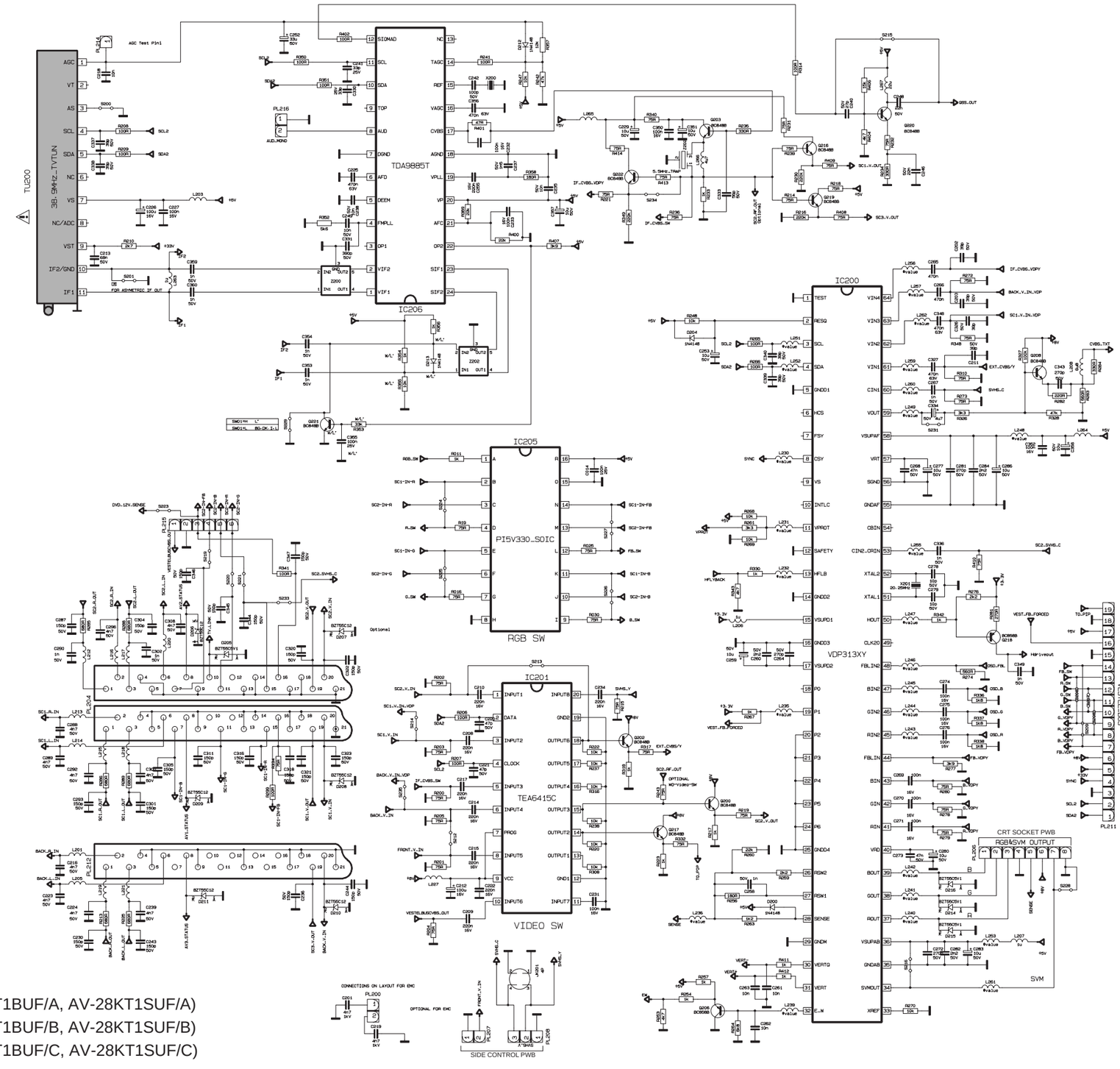
AV-28KT1BUF
AV-28KT1SUF

BLOCK DIAGRAM



AV-28KT1BUF
AV-28KT1SUF

CIRCUIT DIAGRAMS *MAIN PWB CIRCUIT DIAGRAM [1/5]*

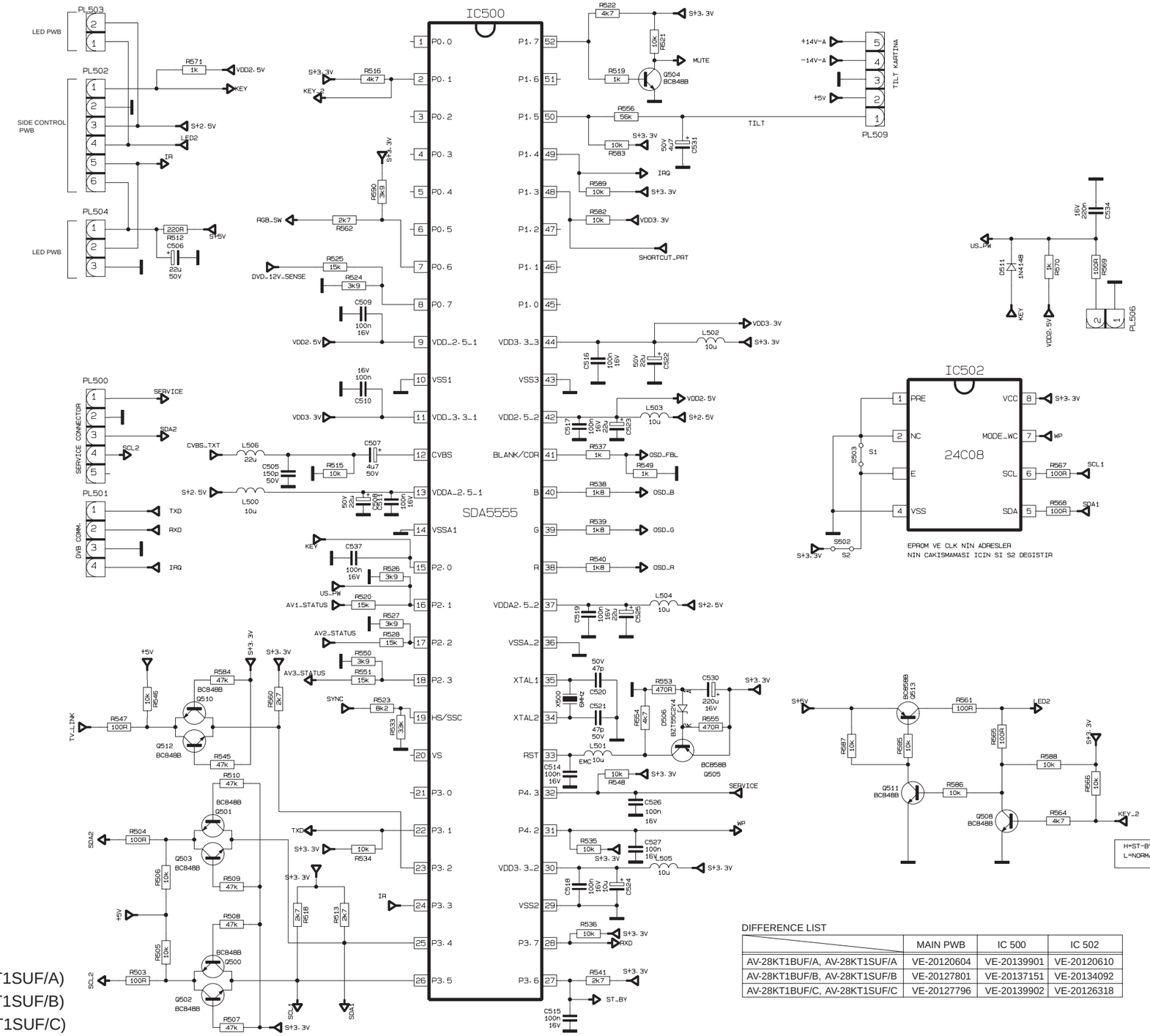


MAIN PWB (1/5)

VE-20120604 (AV-28KT1BUF/A, AV-28KT1SUF/A)
VE-20127801 (AV-28KT1BUF/B, AV-28KT1SUF/B)
VE-20127796 (AV-28KT1BUF/C, AV-28KT1SUF/C)

AV-28KT1BUF
AV-28KT1SUF

MAIN PWB CIRCUIT DIAGRAM [2/5]



MAIN PWB (2/5)

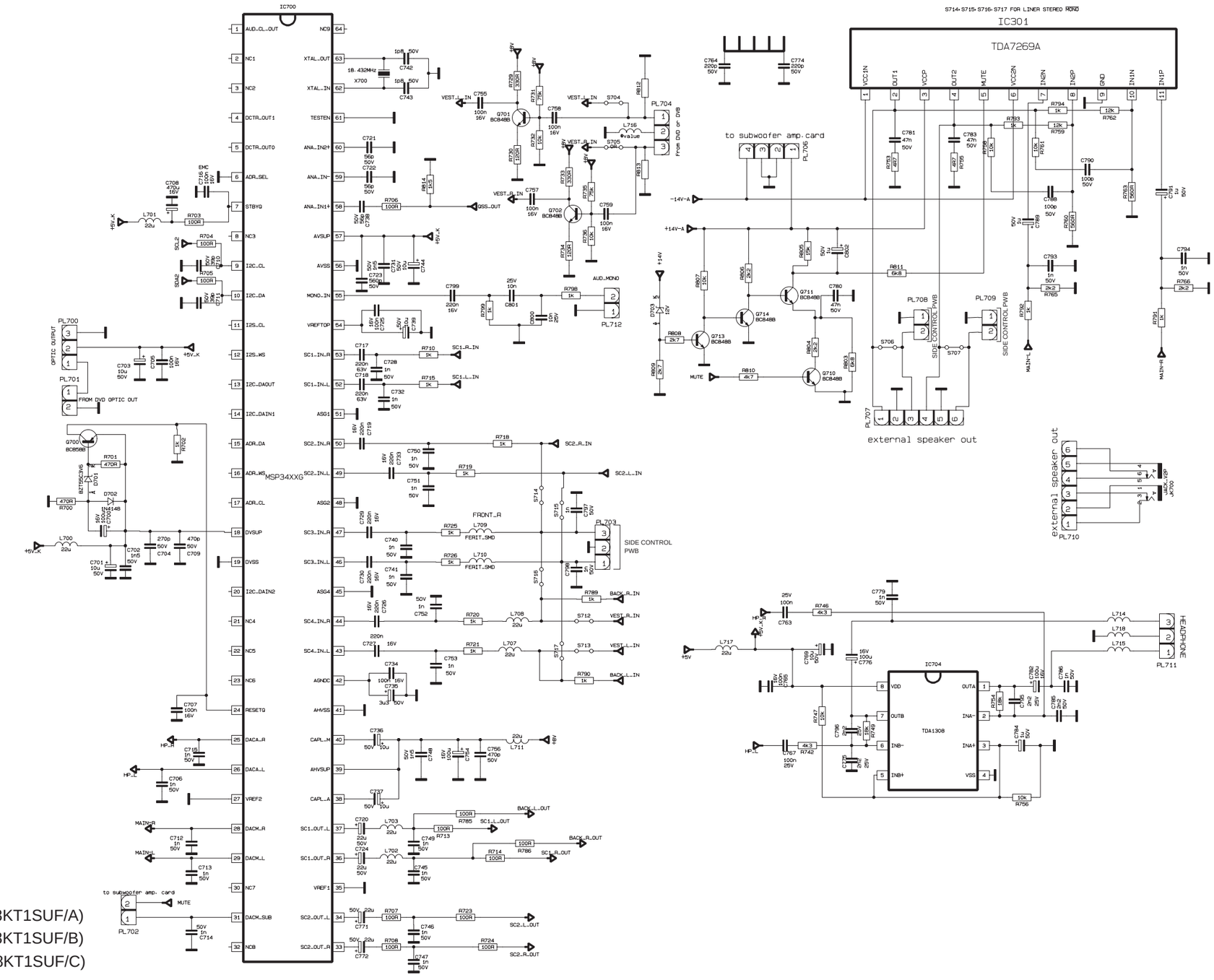
VE-20120604 (AV-28KT1BUF/A, AV-28KT1SUF/A)
VE-20127801 (AV-28KT1BUF/B, AV-28KT1SUF/B)
VE-20127796 (AV-28KT1BUF/C, AV-28KT1SUF/C)

DIFFERENCE LIST

	MAIN PWB	IC 500	IC 502
AV-28KT1BUF/A, AV-28KT1SUF/A	VE-20120604	VE-20139901	VE-20120610
AV-28KT1BUF/B, AV-28KT1SUF/B	VE-20127801	VE-20137151	VE-20134092
AV-28KT1BUF/C, AV-28KT1SUF/C	VE-20127796	VE-20139902	VE-20126318

AV-28KT1BUF
AV-28KT1SUF

MAIN PWB CIRCUIT DIAGRAM [3/5]

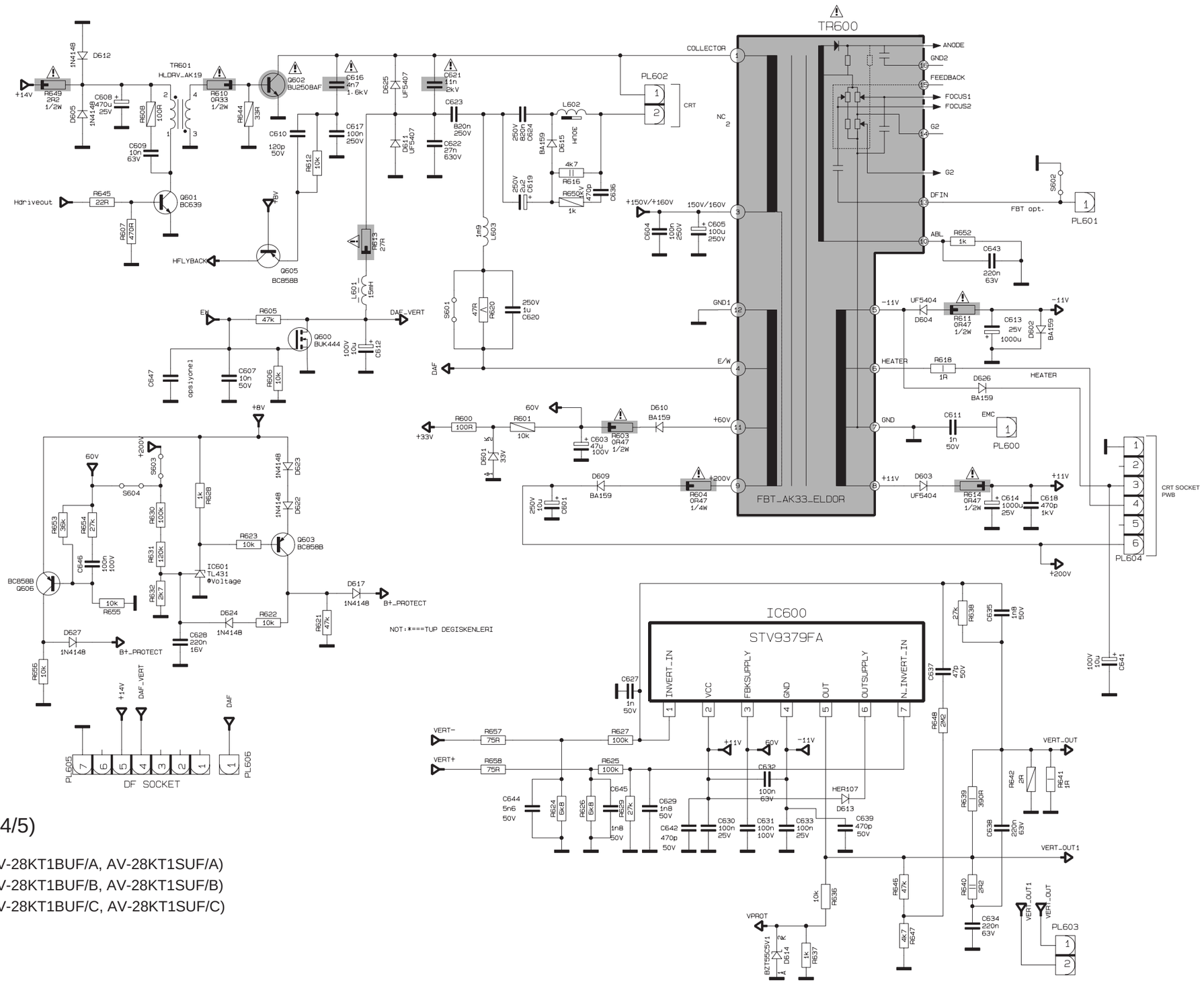


MAIN PWB (3/5)

VE-20120604 (AV-28KT1BUF/A, AV-28KT1SUF/A)
VE-20127801 (AV-28KT1BUF/B, AV-28KT1SUF/B)
VE-20127796 (AV-28KT1BUF/C, AV-28KT1SUF/C)

AV-28KT1BUF
AV-28KT1SUF

MAIN PWB CIRCUIT DIAGRAM [4/5]

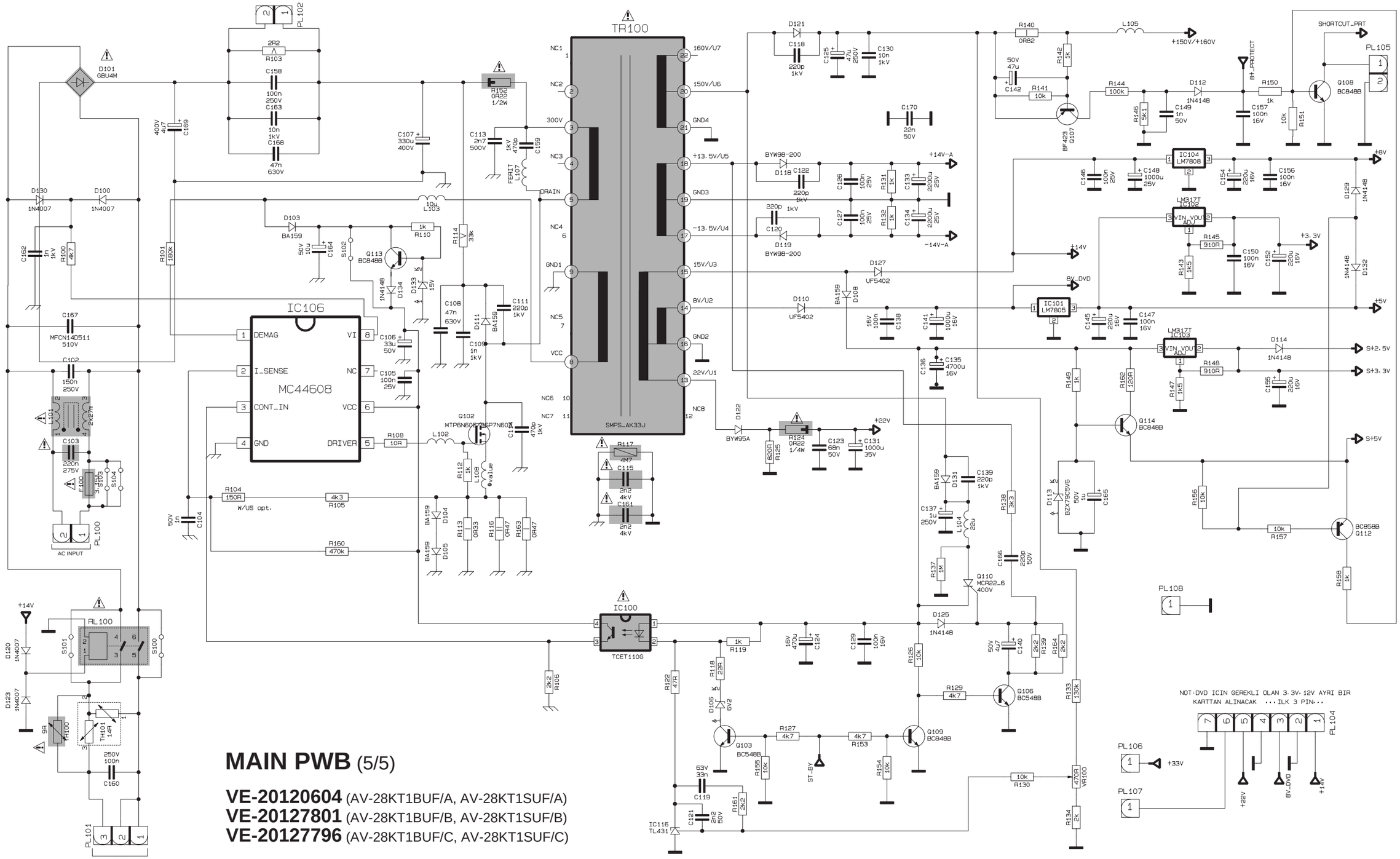


MAIN PWB (4/5)

VE-20120604 (AV-28KT1BUF/A, AV-28KT1SUF/A)
VE-20127801 (AV-28KT1BUF/B, AV-28KT1SUF/B)
VE-20127796 (AV-28KT1BUF/C, AV-28KT1SUF/C)

AV-28KT1BUF
AV-28KT1SUF

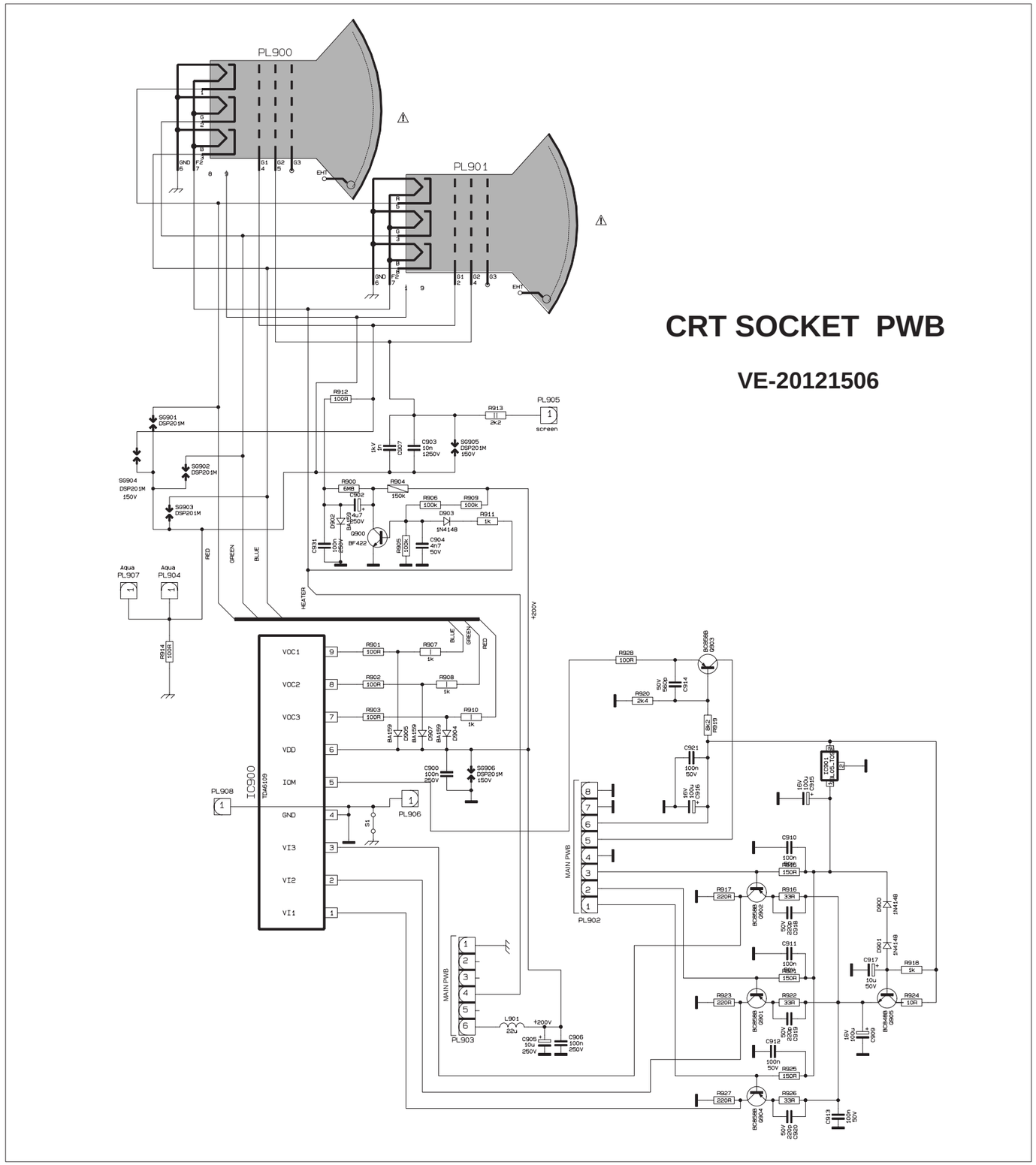
MAIN PWB CIRCUIT DIAGRAM [5/5]



MAIN PWB (5/5)

VE-20120604 (AV-28KT1BUF/A, AV-28KT1SUF/A)
VE-20127801 (AV-28KT1BUF/B, AV-28KT1SUF/B)
VE-20127796 (AV-28KT1BUF/C, AV-28KT1SUF/C)

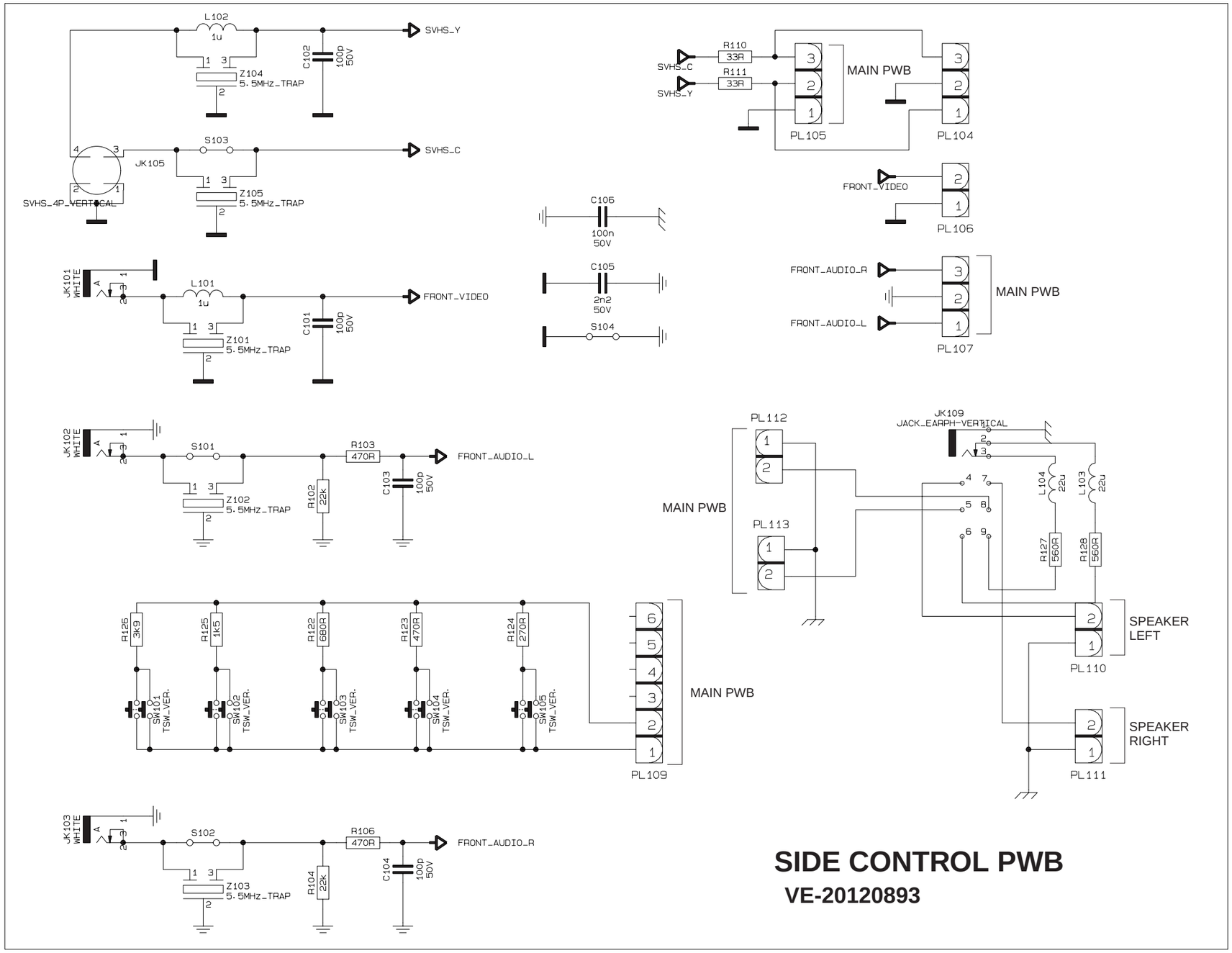
CRT SOCKET PWB CIRCUIT DIAGRAM



CRT SOCKET PWB

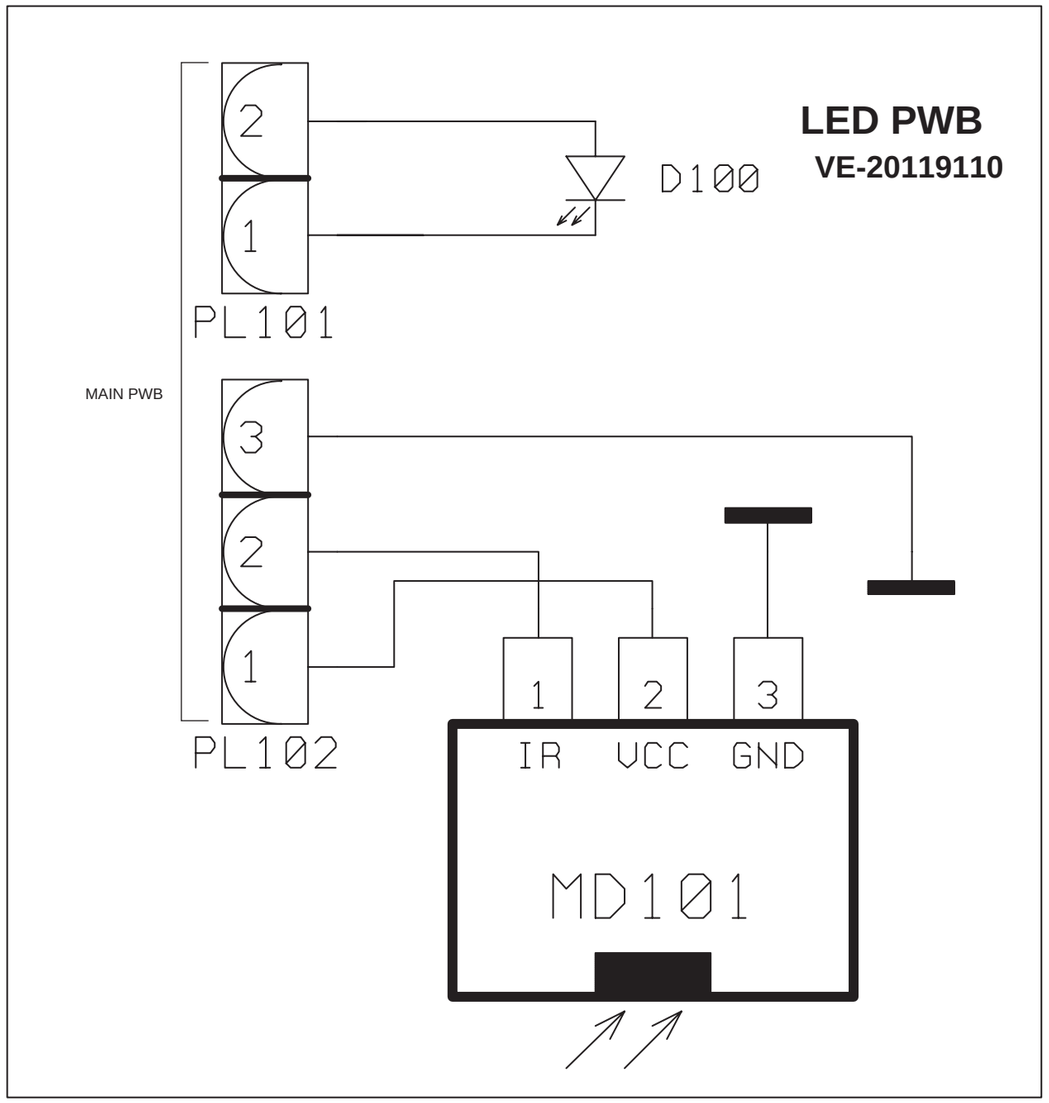
VE-20121506

SIDE CONTROL PWB CIRCUIT DIAGRAM

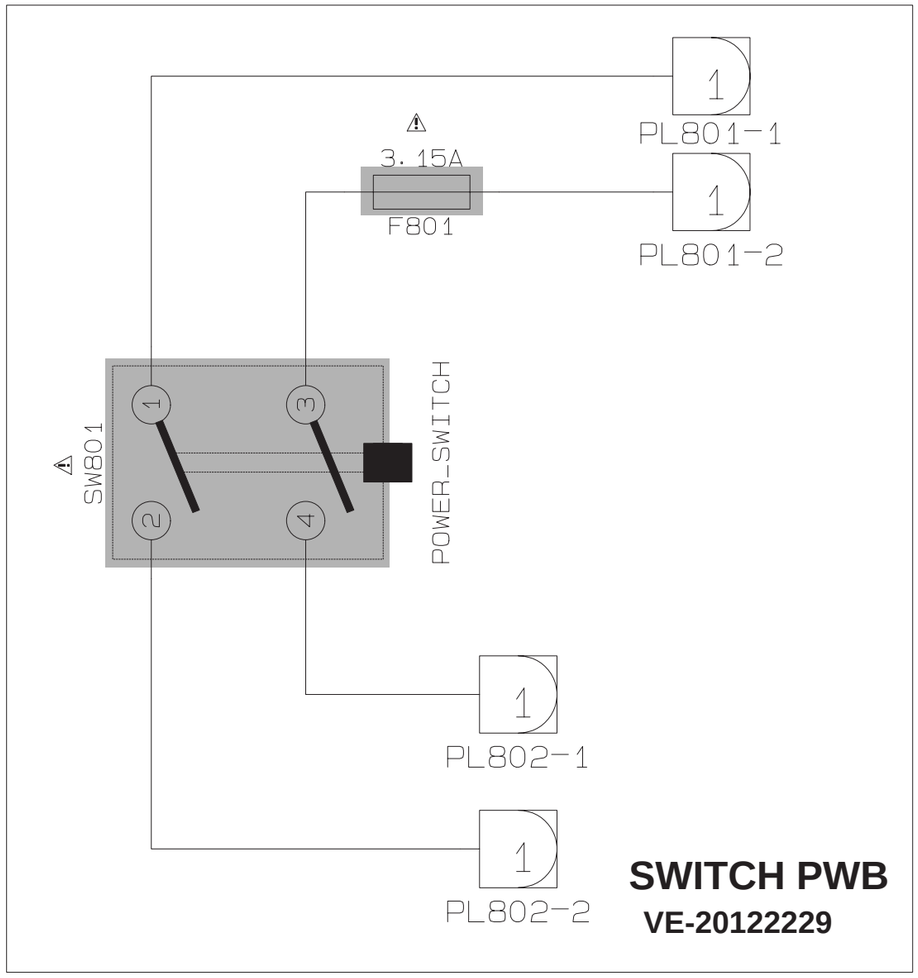


AV-28KT1BUF
AV-28KT1SUF

LED PWB CIRCUIT DIAGRAM



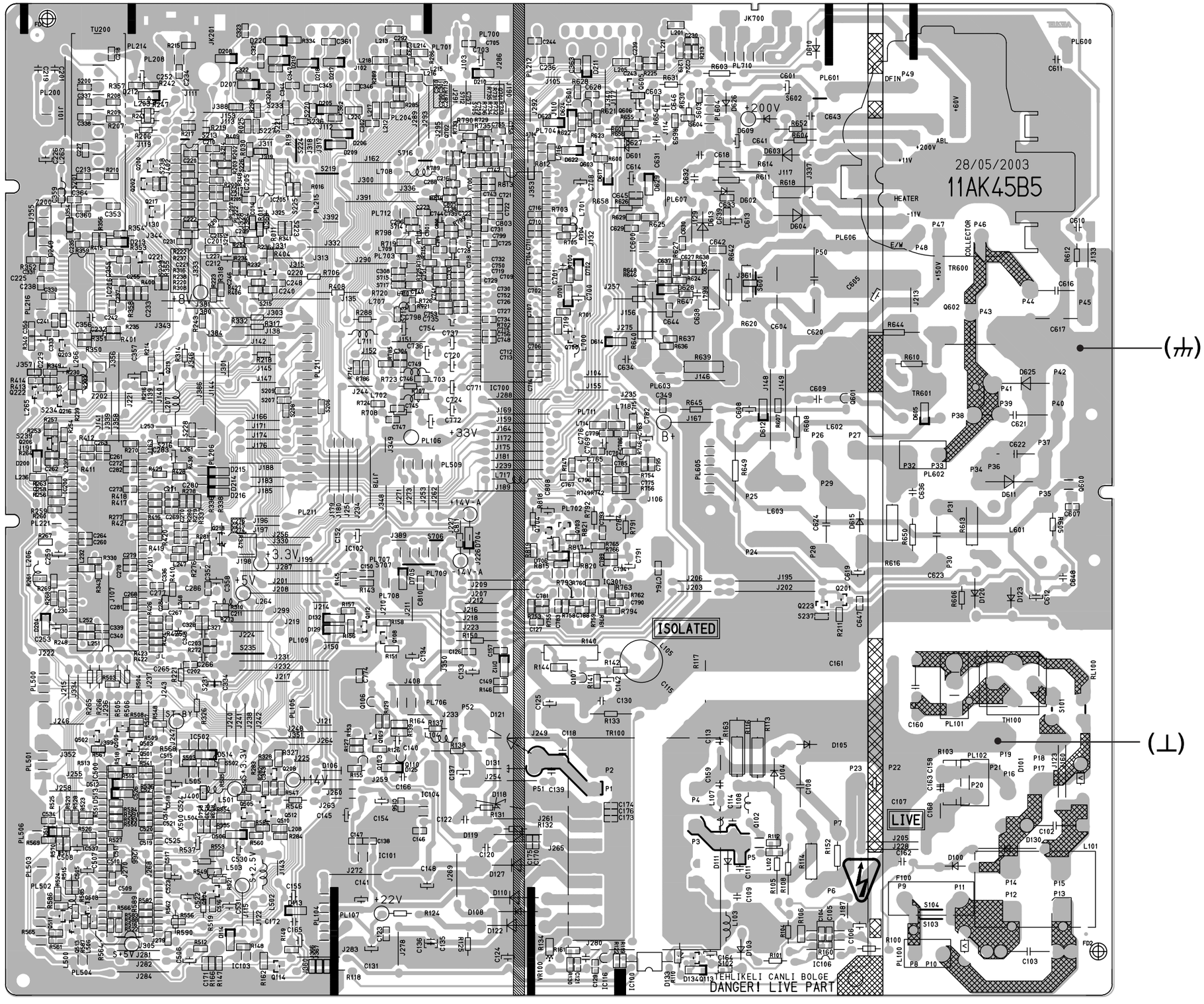
SWITCH PWB CIRCUIT DIAGRAM



AV-28KT1BUF
AV-28KT1SUF

PATTERN DIAGRAMS *MAIN PWB PATTERN*

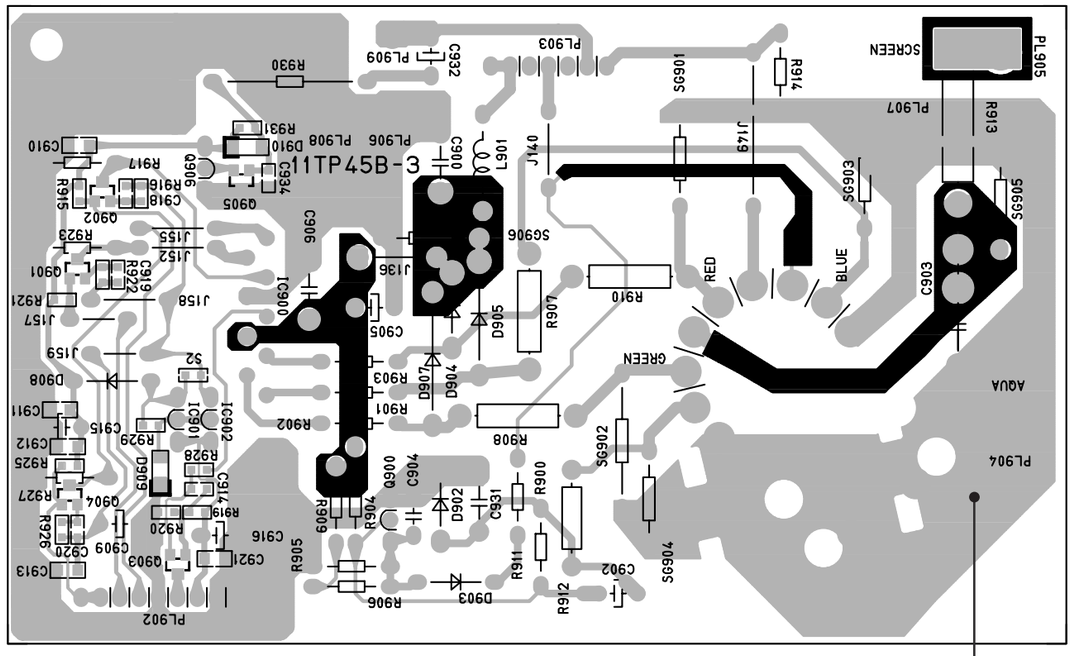
FRONT



AV-28KT1BUF
AV-28KT1SUF

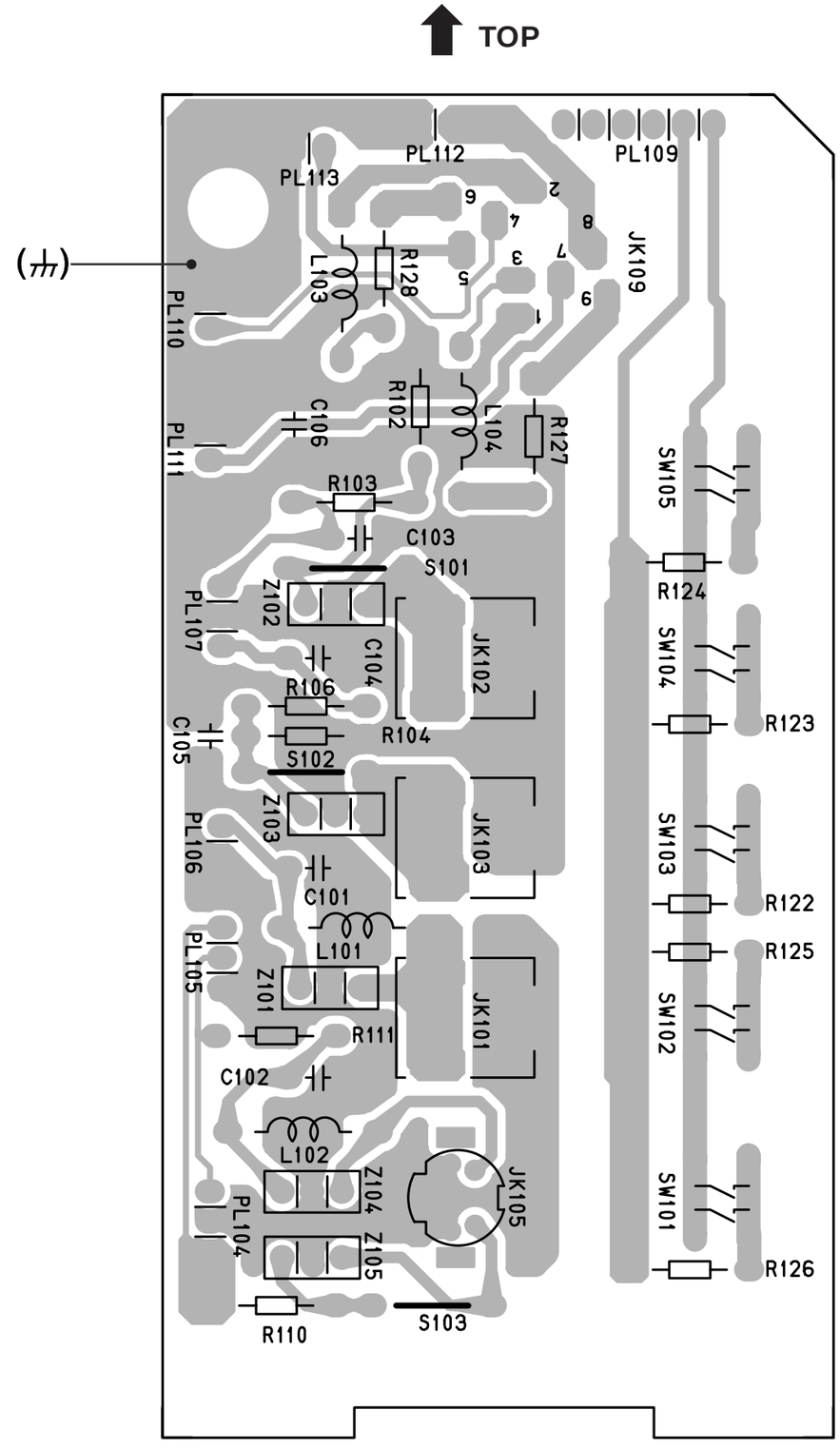
CRT SOCKET PWB PATTERN

TOP



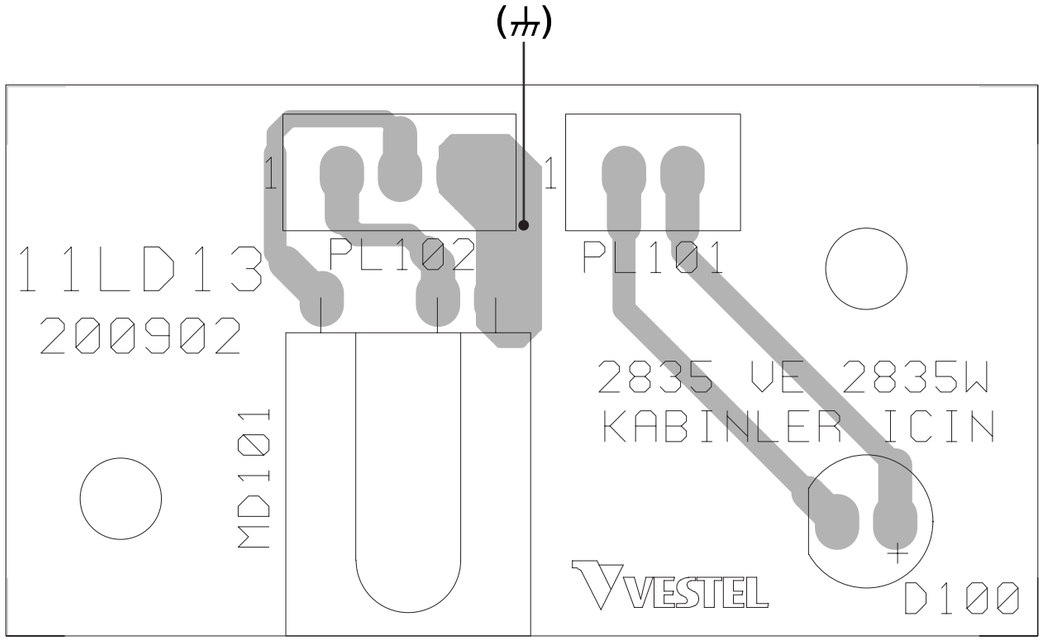
SIDE CONTROL PWB PATTERN

TOP



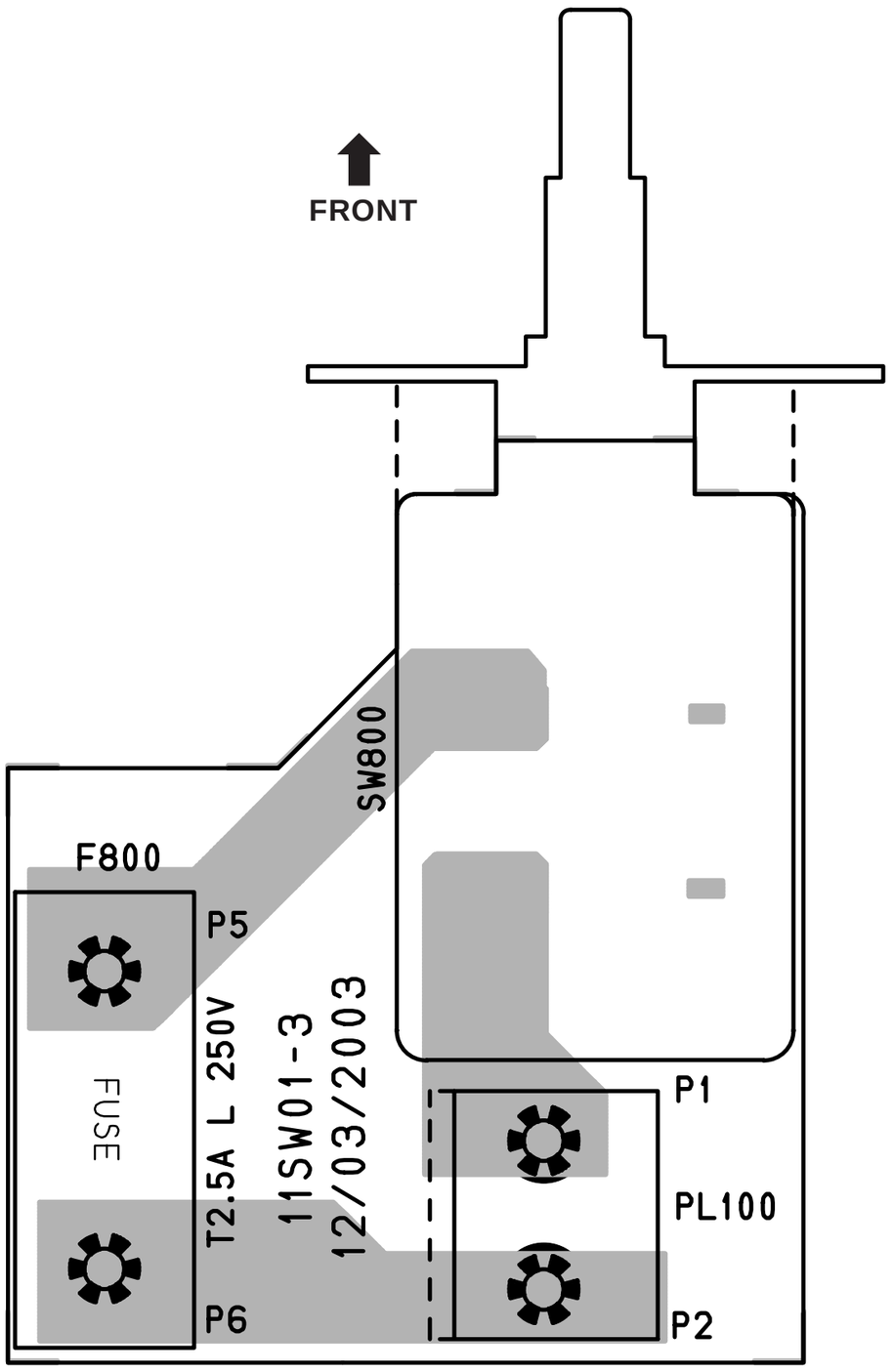
AV-28KT1BUF
AV-28KT1SUF

LED PWB PATTERN



TOP

POWER SWITCH PWB PATTERN



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