

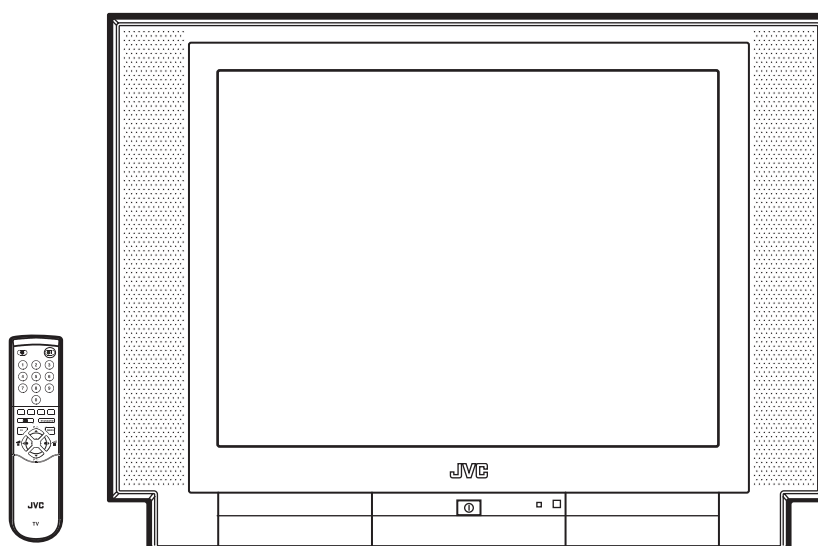
JVC

SCHEMATIC DIAGRAMS

COLOUR TELEVISION

AV-29BH11ENS AV-29BH11EPS AV-29BH11EES

CD-ROM No.SML200209



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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	

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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 20k Ω /V
(4)Oscilloscope sweeping time	:H \Rightarrow 20 μ S/div :V \Rightarrow 5mS/div :Others \Rightarrow 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	: [μ F]

● Withstand voltage

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

* Electrolytic Capacitors

47/50[Example]:Capacitance value [μ F]/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	: [μ H]
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.

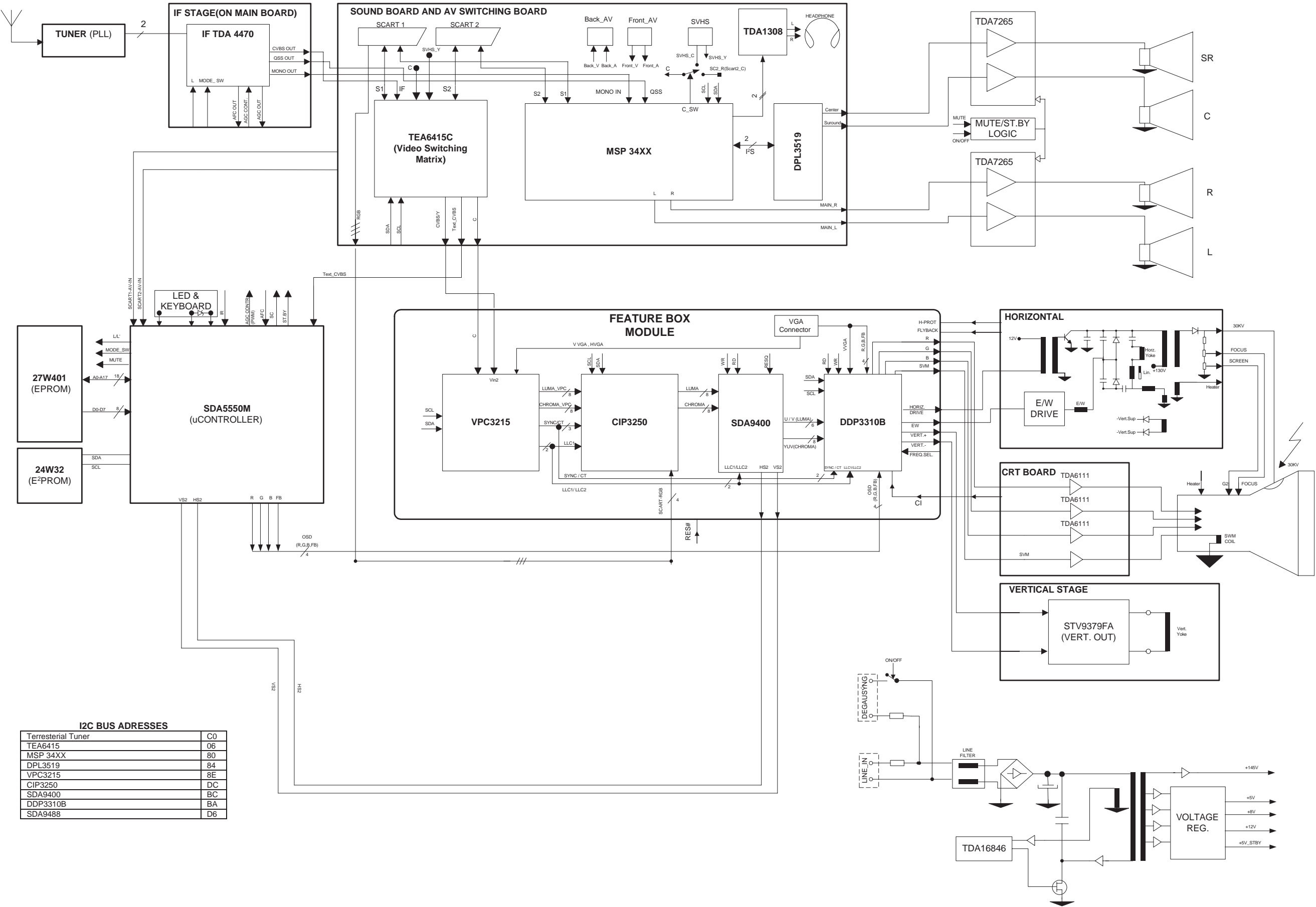
NOTE

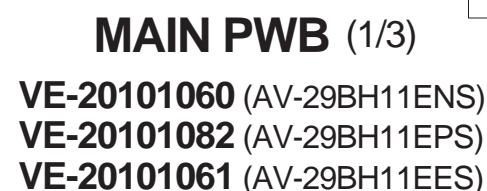
◇ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list. When ordering parts, please use the numbers that appear in the Parts List.

BLOCK DIAGRAM

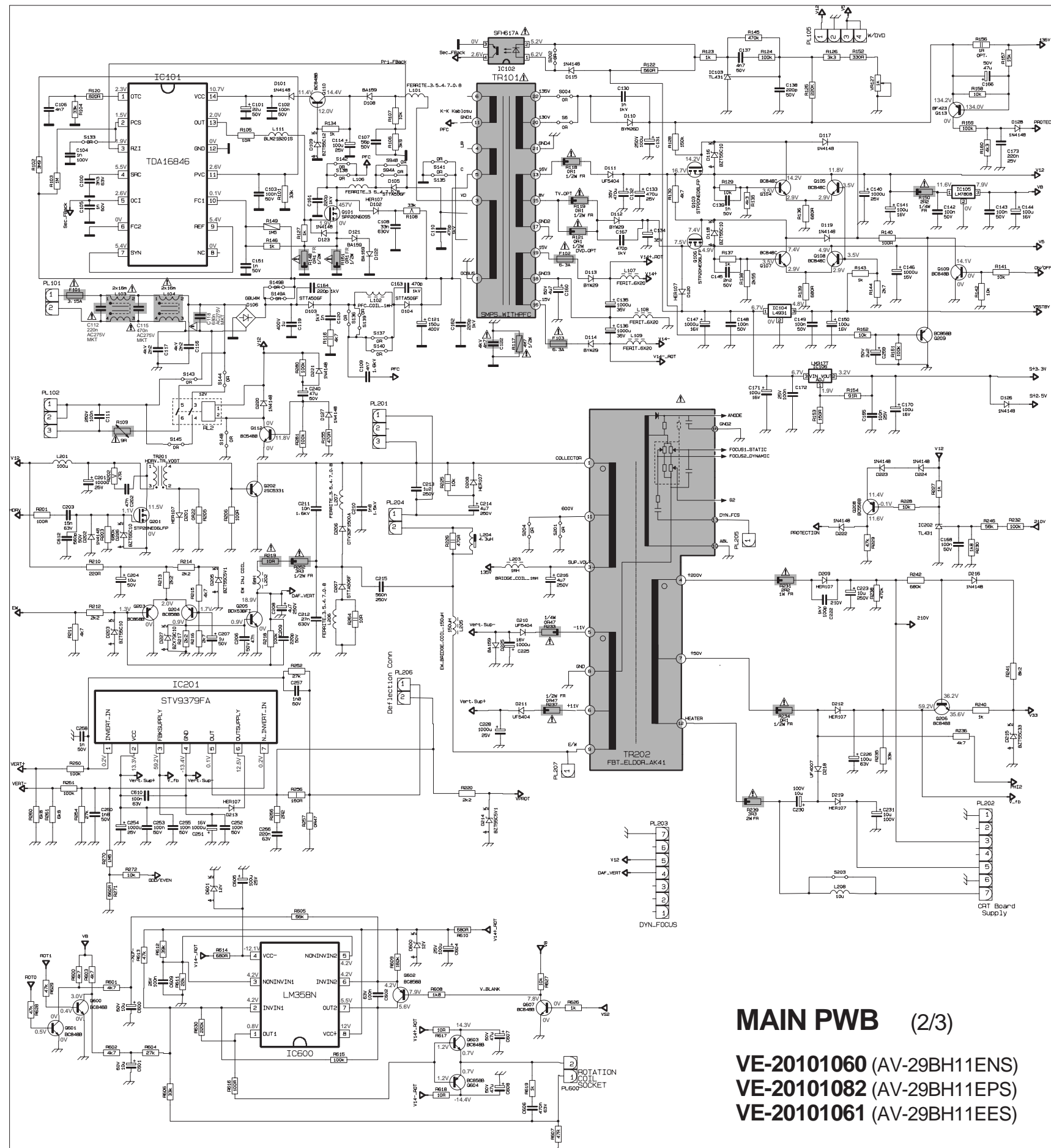
AV-29BH11ENS
AV-29BH11EPS
AV-29BH11EES

AV-29BH11ENS
AV-29BH11EPS
AV-29BH11EES





MAIN PWB CIRCUIT DIAGRAM (2/3)

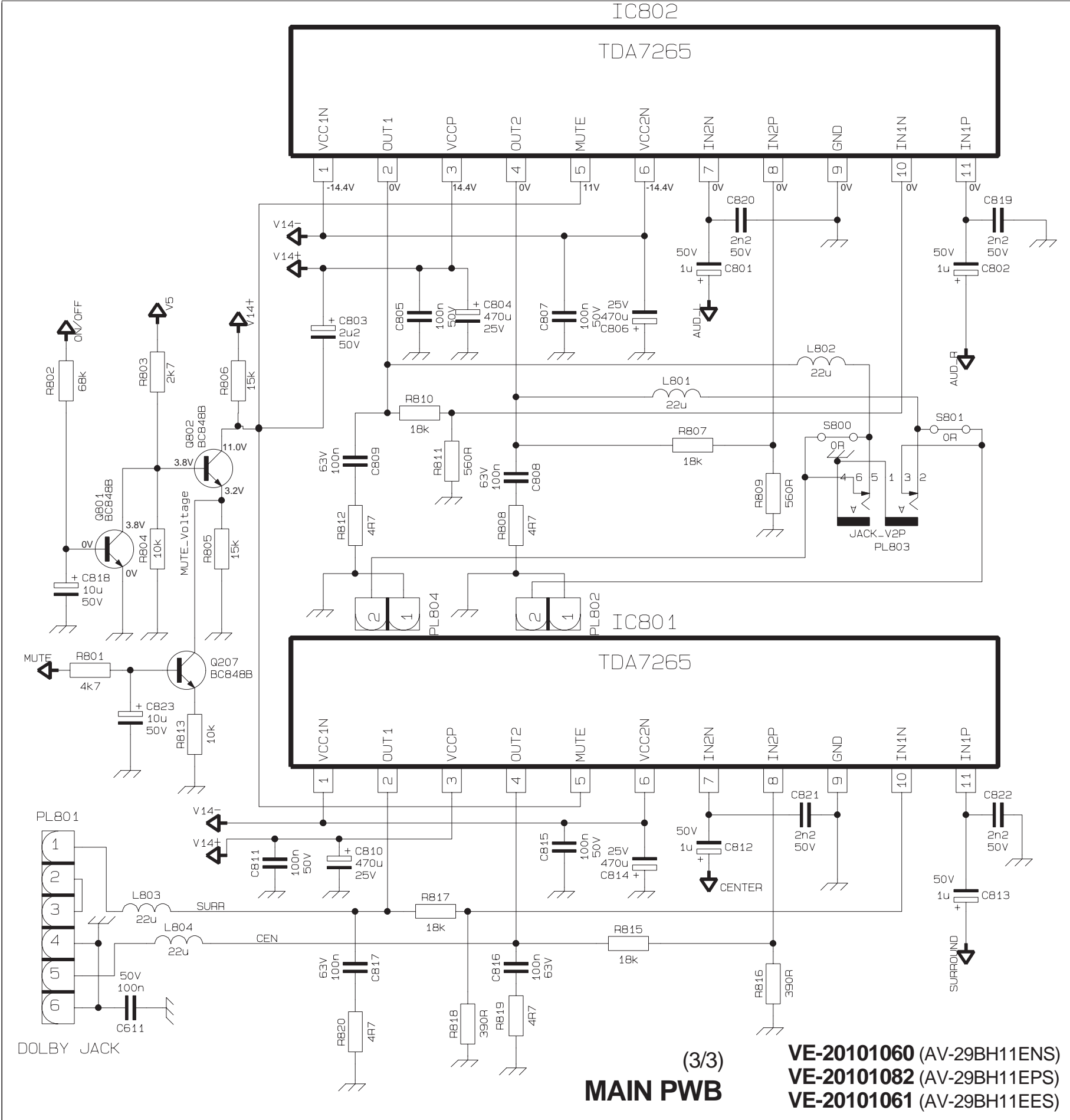


MAIN PWB (2/3)

VE-20101060 (AV-29BH11ENS)
VE-20101082 (AV-29BH11EPS)
VE-20101061 (AV-29BH11EES)

	EN		EE		EP	
R401	---	---	---	---	VE-30000665	RES CF 1/4W 33K J
R403	---	---	---	---	VE-30000668	RES SMD 1/10W 33K J 0805
R411	VE-30000747	RES SMD 1/10W 560R J (0805)	VE-30000747	RES SMD 1/10W 560R J (0805)	VE-30000721	RES SMD 1/10W 4.7K J
R417	---	---	---	---	VE-30000778	RES SMD 1/10W 6.8K J 0805
R418	---	---	---	---	VE-30000593	RES SMD 1/10W 2.2K J (0805)
R432	---	---	---	---	VE-30000787	RES SMD 1/10W 680K J
R437	---	---	---	---	VE-30000499	RES SMD 1/10W 1.2K J (0805)
R438	---	---	---	---	VE-30000655	RES CF 1/4W 330R J
R439	---	---	---	---	VE-30000770	RES CF 1/4W 680R J
R440	VE-30000534	RES SMD 1/10W 15K J (0805)	VE-30000534	RES SMD 1/10W 15K J (0805)	---	---
R441	VE-30000818	RES SMD 1/10W 8.2K J (0805)	VE-30000818	RES SMD 1/10W 8.2K J (0805)	VE-30000751	RES SMD 1/10W 5.6K J 0805
R446	---	---	---	---	VE-30000469	RES SMD 1/10W 1K J 0805
R447	---	---	---	---	VE-30000469	RES SMD 1/10W 1K J 0805
R516	---	---	---	---	VE-30007026	RES SMD 1/10W 5.1K J(0805)
R517	---	---	---	---	VE-30007026	RES SMD 1/10W 5.1K J(0805)
VR401	---	---	---	---	VE-30001058	RES ADJ 1/6W 22K VER (OTO)
VR401	---	---	---	---	VE-30001069	RES ADJ 1/6W 47K VER (MAN)
CXXX	---	---	---	---	VE-30009195	CONN MALE HEADER 1P
CXX7	---	---	---	---	VE-30000106	CAP MKT 47NF 100V J
C403	VE-30000384	CAP EL 2.2UF 50V M	VE-30000384	CAP EL 2.2UF 50V M	VE-30000393	CAP EL 3.3UF 50V M
C406	VE-30000224	CAP SMD 220PF 50V J (0805)	VE-30000224	CAP SMD 220PF 50V J (0805)	VE-30000220	CAP SMD 22PF 50V J (0805)
C424	---	---	---	---	VE-30000387	CAP EL 33UF 50V M
C430	---	---	---	---	VE-30000294	CAP SMD 100NF 50V K (0805)
C440	VE-30000400	CAP EL 47UF 50V M	VE-30000400	CAP EL 47UF 50V M	VE-0000355	CAP EL 100UF 50V M
C455	VE-30000345	CAP EL 10UF 50V M	VE-30000345	CAP EL 10UF 50V M	---	---
C479	---	---	---	---	VE-30000362	CAP EL 1UF 50V M
C494	---	---	---	---	VE-30000362	CAP EL 1UF 50V M
C496	---	---	---	---	VE-30000413	CAP EL 4.7UF 50V M
C491-T	---	---	---	---	VE-30000400	CAP EL 47UF 50V M
D401	VE-30001735	JUMPER SMD 1206	VE-30001735	JUMPER SMD 1206	VE-30001285	DIODE 1N4148 SMD
D402	---	---	---	---	VE-30001285	DIODE 1N4148 SMD
Q401	---	---	---	---	VE-30001457	TR BC848B SMD
Q405	---	---	---	---	VE-30001457	TR BC848B SMD
Q406	---	---	---	---	VE-30001457	TR BC848B SMD
IC302	VE-20101089	IC 24C32 037J111113312	VE-20101104	IC 24C32 038J111113312	VE-20101106	IC 24C32 039J111113312
IC401	VE-30001495	IC TDA4472	VE-30001495	IC TDA4472	VE-30001494	IC TDA4470H
L426	---	---	---	---	VE-30001994	FIXED COIL 22UH J AXIAL
VL401	VE-30002037	ADJ COIL VIF 38.9 Q80	VE-30002037	ADJ COIL VIF 38.9 Q80	VE-30002036	ADJ COIL VIF 38.9MHZ C=12PF
S401	VE-30001734	JUMPER SMD (0805)	VE-30001734	JUMPER SMD (0805)	---	---
T402	---	---	VE-30001726	FILTER SER TRAP TPS 6.5MHZ	---	---

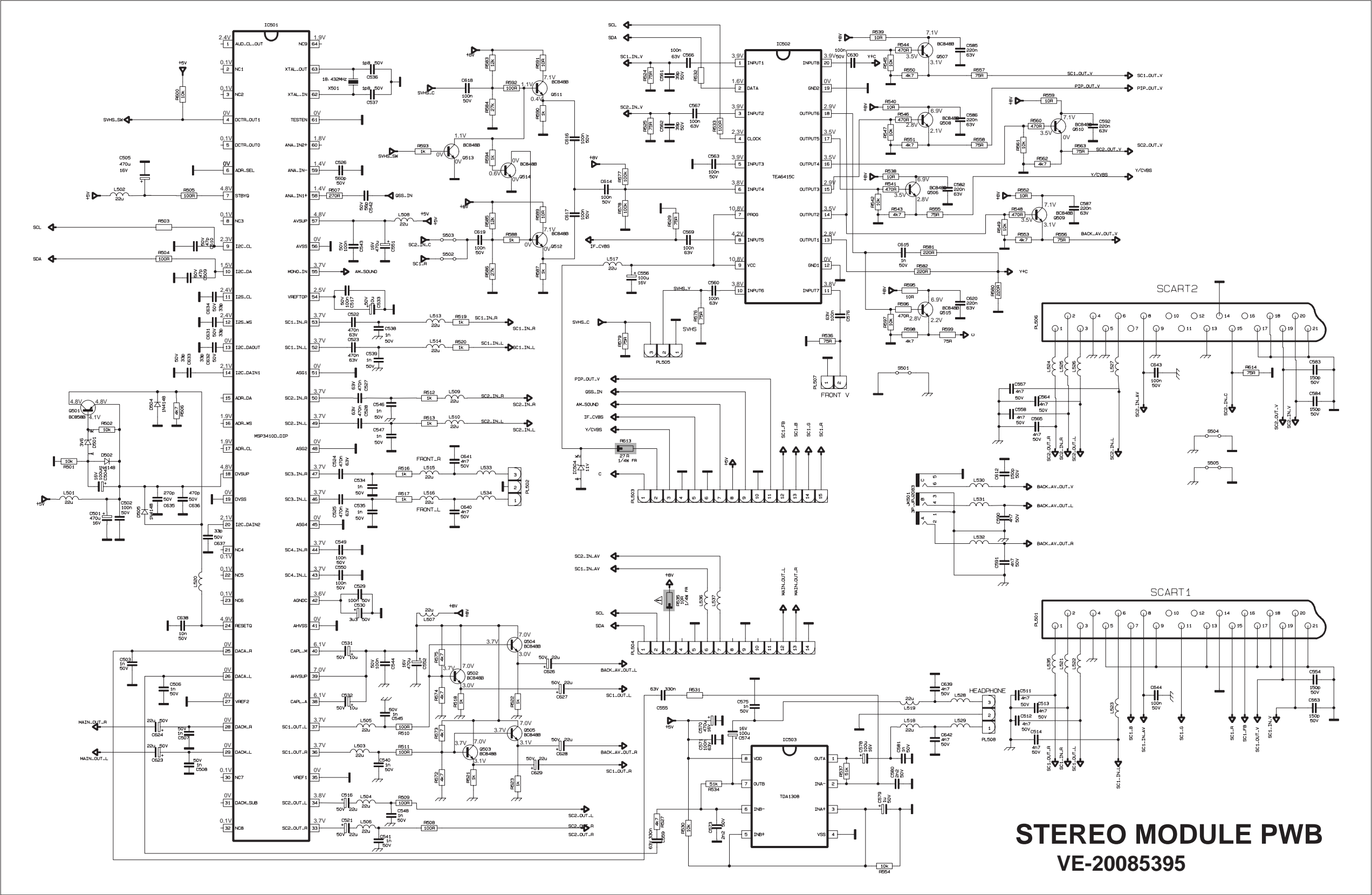
MAIN PWB CIRCUIT DIAGRAM (3/3)



STEREO MODULE PWB CIRCUIT DIAGRAM

AV-29BH11ENS
AV-29BH11EPS
AV-29BH11EES

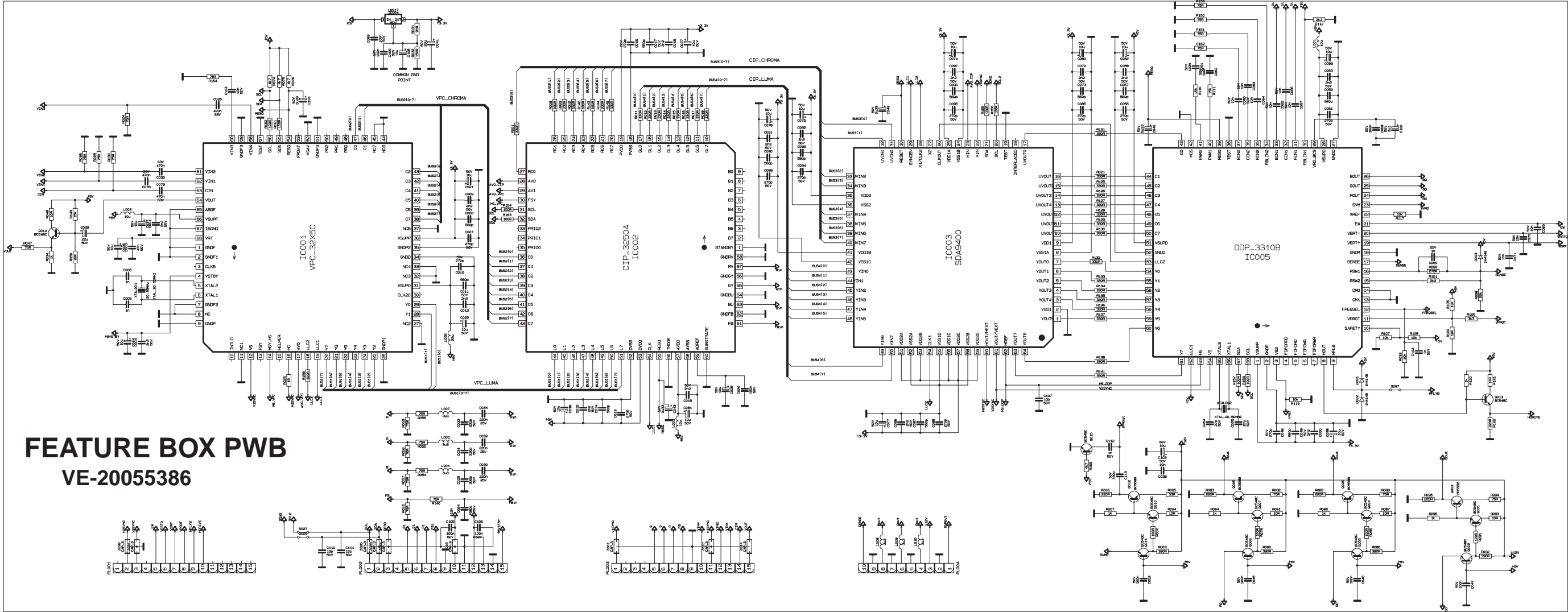
AV-29BH11ENS
AV-29BH11EPS
AV-29BH11EES



FEATURE BOX PWB CIRCUIT DIAGRAM

AV-29BH11ENS
AV-29BH11EPS
AV-29BH11EES

AV-29BH11ENS
AV-29BH11EPS
AV-29BH11EES

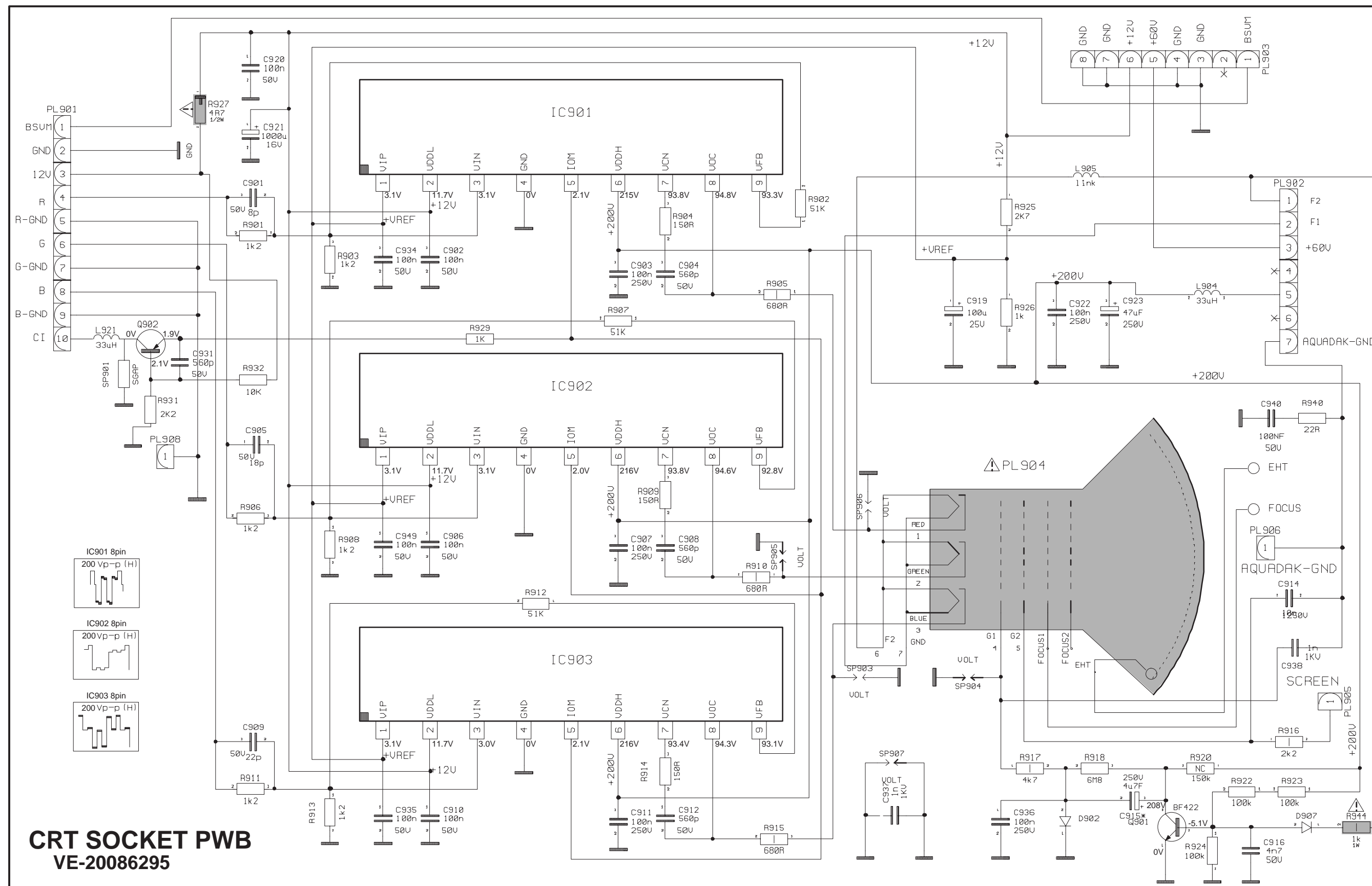


FEATURE BOX PWB
VE-20055386

CRT SOCKET PWB CIRCUIT DIAGRAM

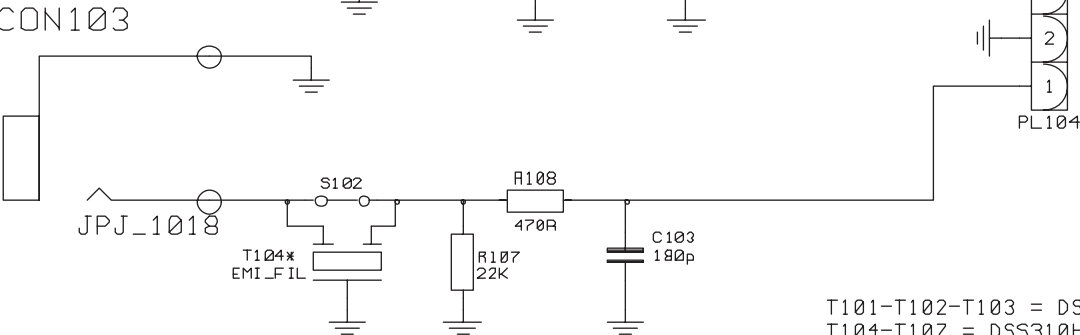
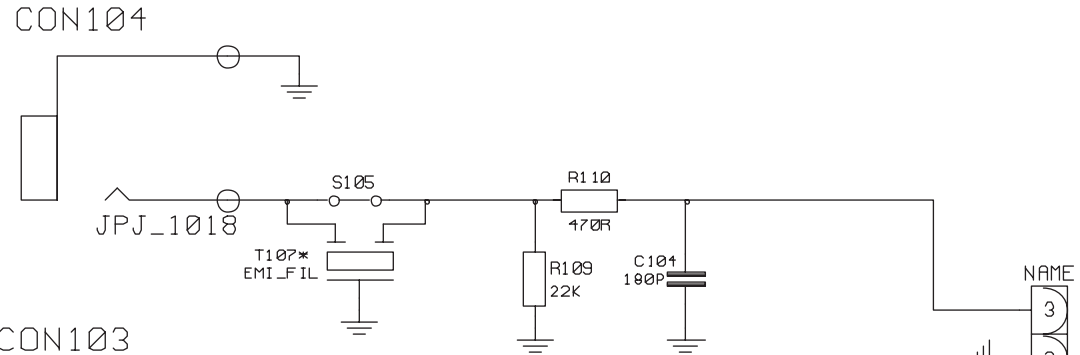
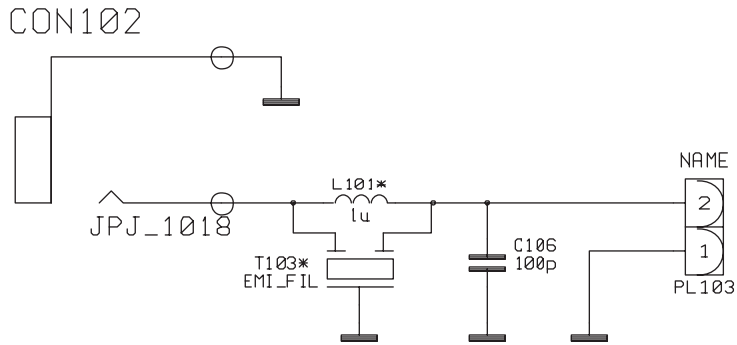
AV-29BH11ENS
AV-29BH11EPS
AV-29BH11EES

AV-29BH11ENS
AV-29BH11EPS
AV-29BH11EES

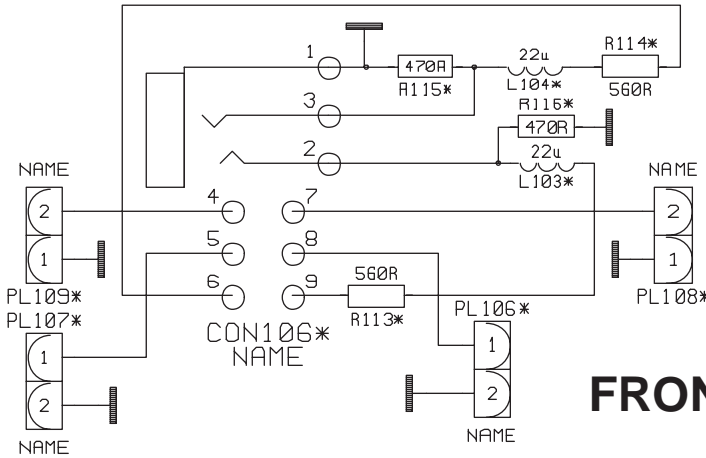


CRT SOCKET PWB
VE-20086295

FRONT AV & HEADPHONE PWB CIRCUIT DIAGRAM

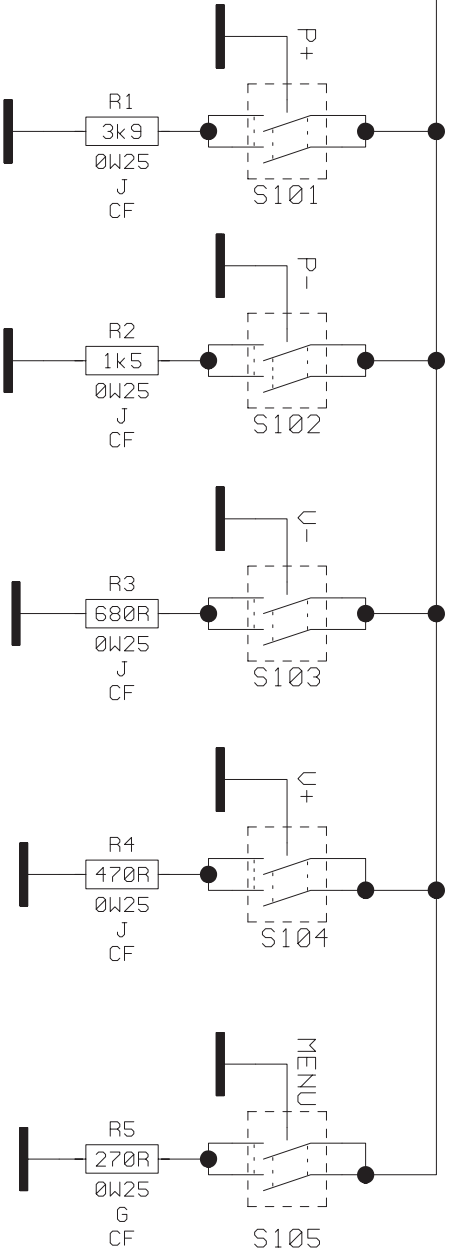
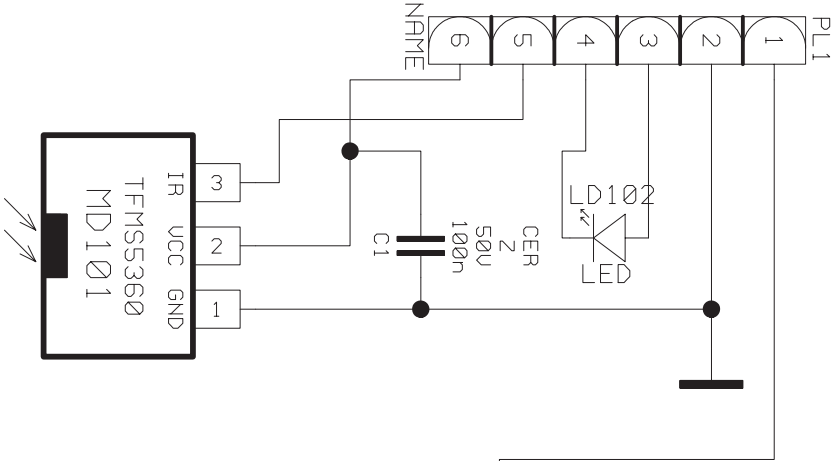


T101-T102-T103 = DSS310H-55B271M250
T104-T107 = DSS310H-55B222M250



FRONT AV & HEADPHONE PWB
VE-20083091

FRONT CONTROL PWB CIRCUIT DIAGRAM



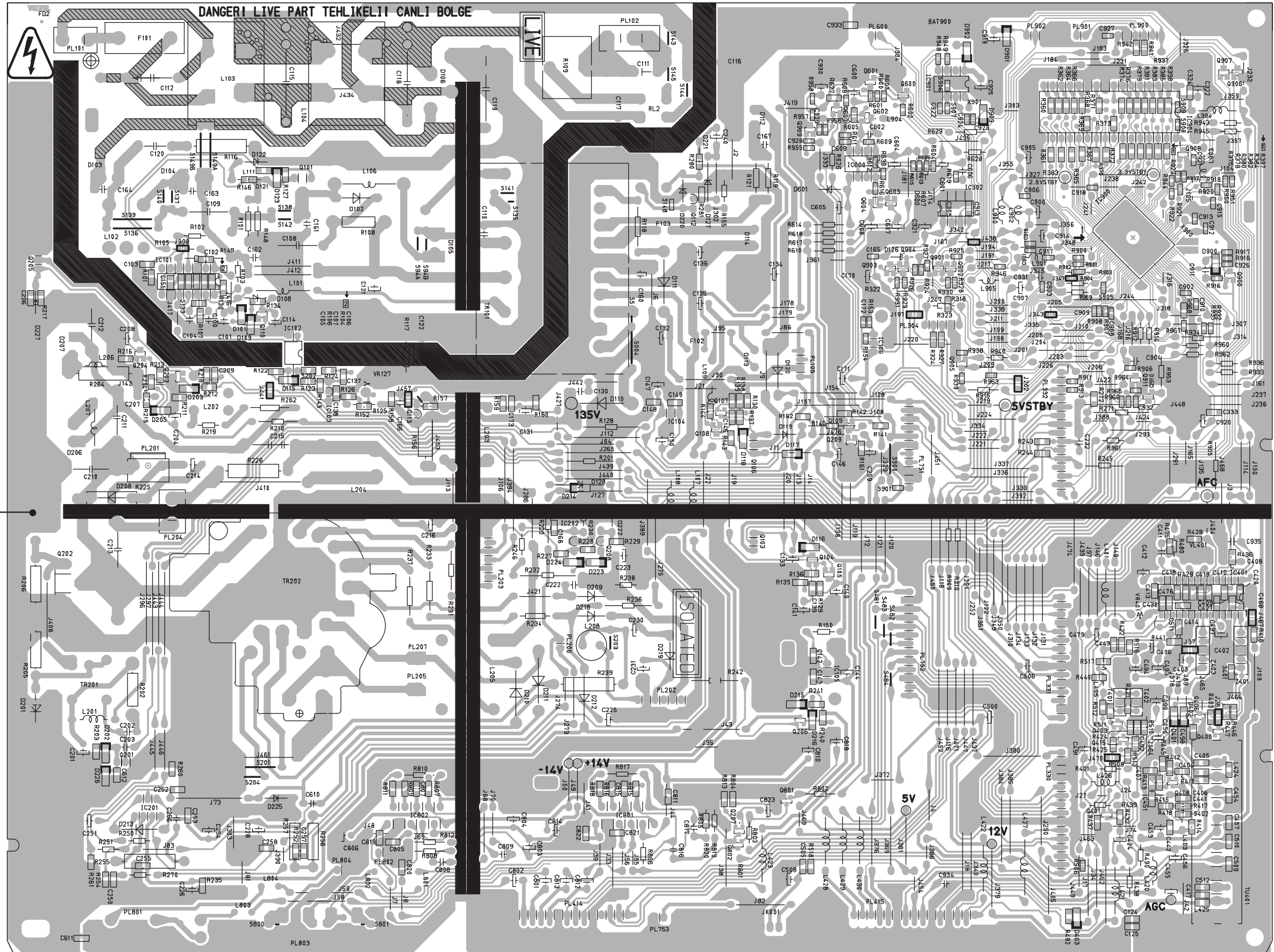
FRONT CONTROL PWB
VE-20100168

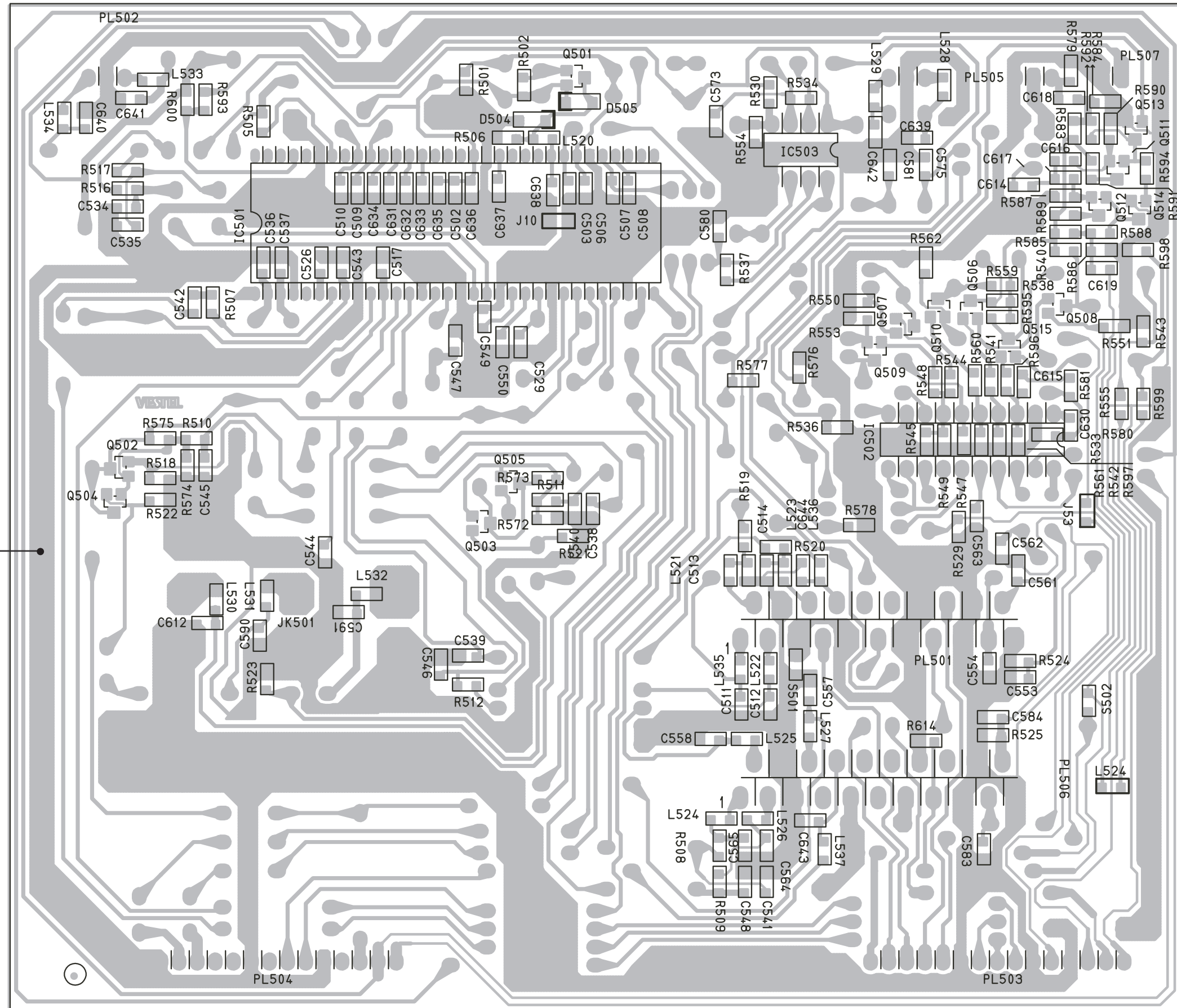
PATTERN DIAGRAMS MAIN PWB PATTERN

AV-29BH11ENS
AV-29BH11EPS
AV-29BH11EES

AV-29BH11ENS
AV-29BH11EPS
AV-29BH11EES

FRONT

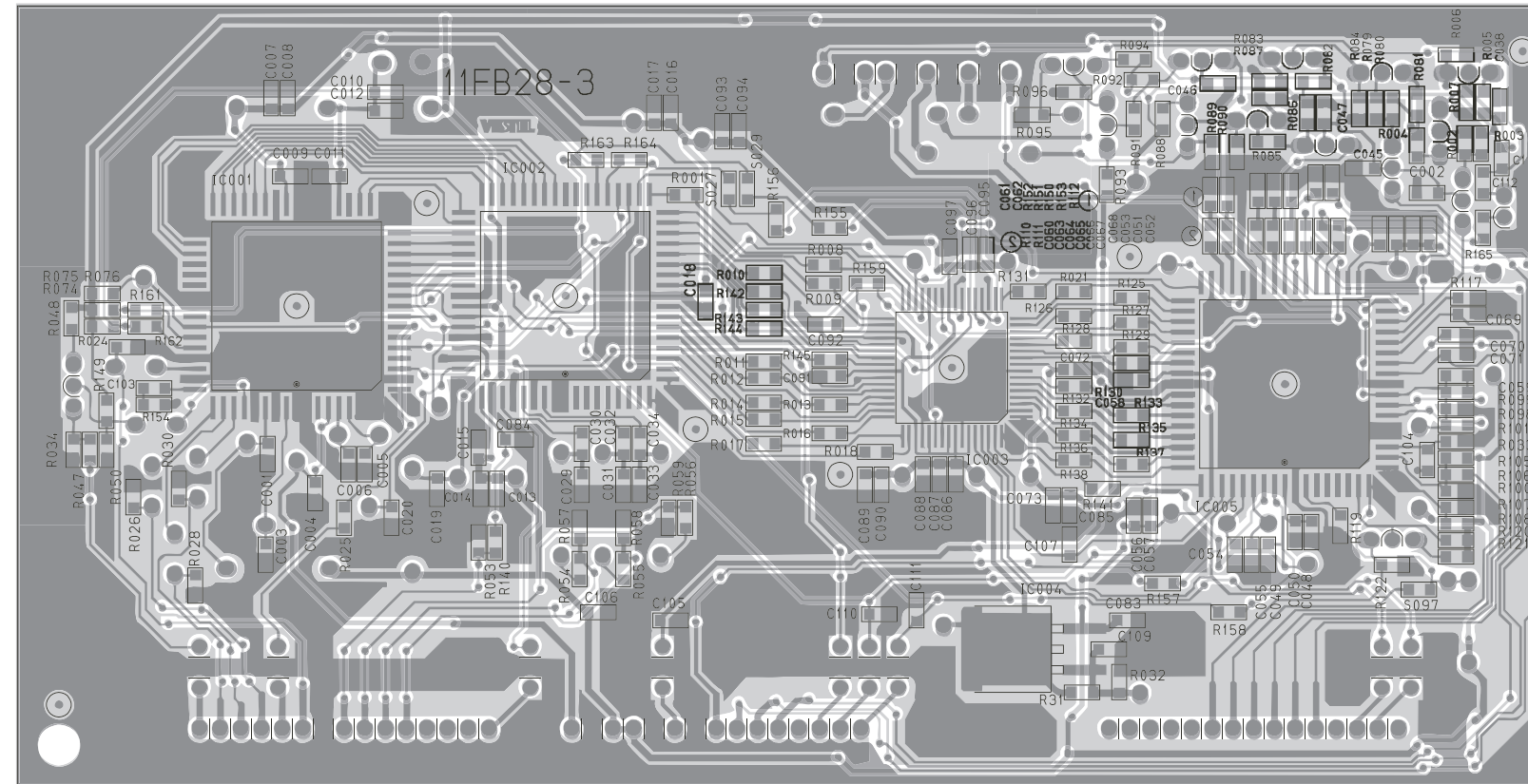




FEATURE BOX PWB PATTERN

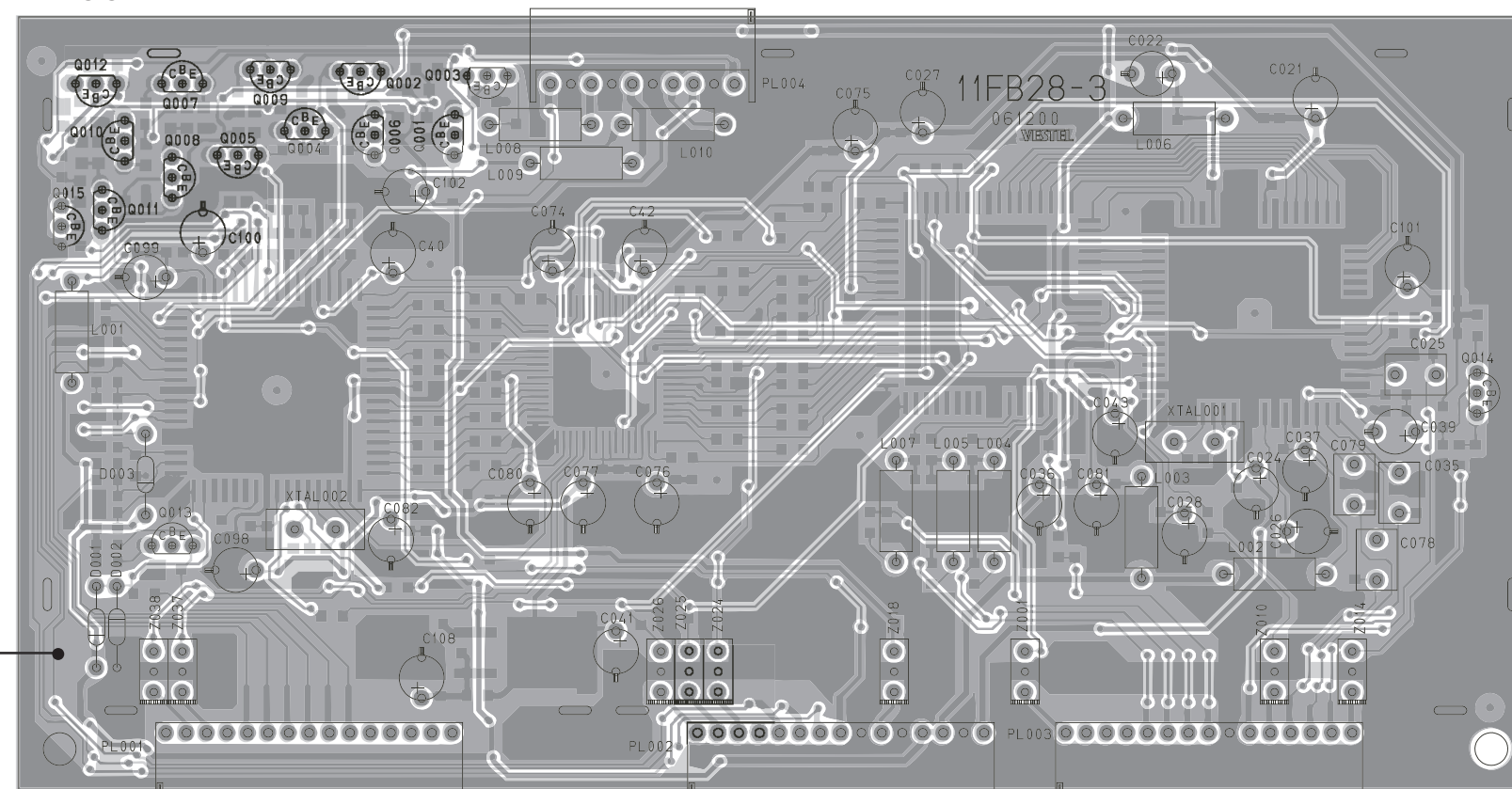
SOLDER SIDE

TOP



PARTS SIDE

TOP

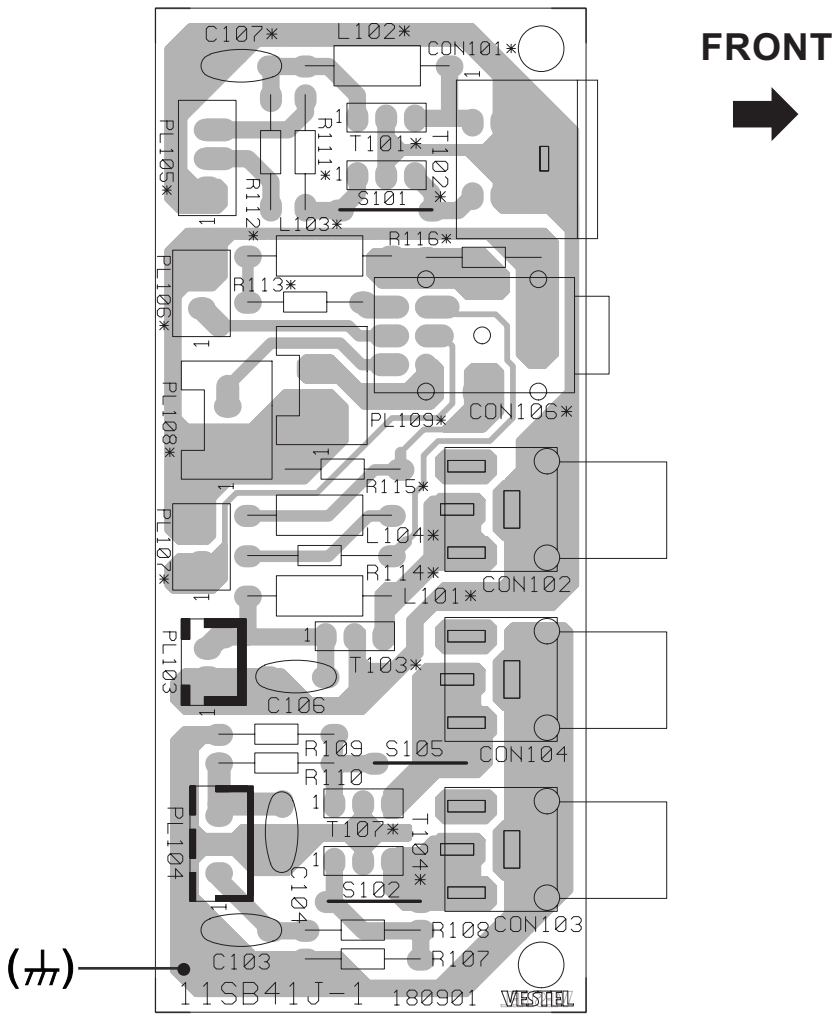
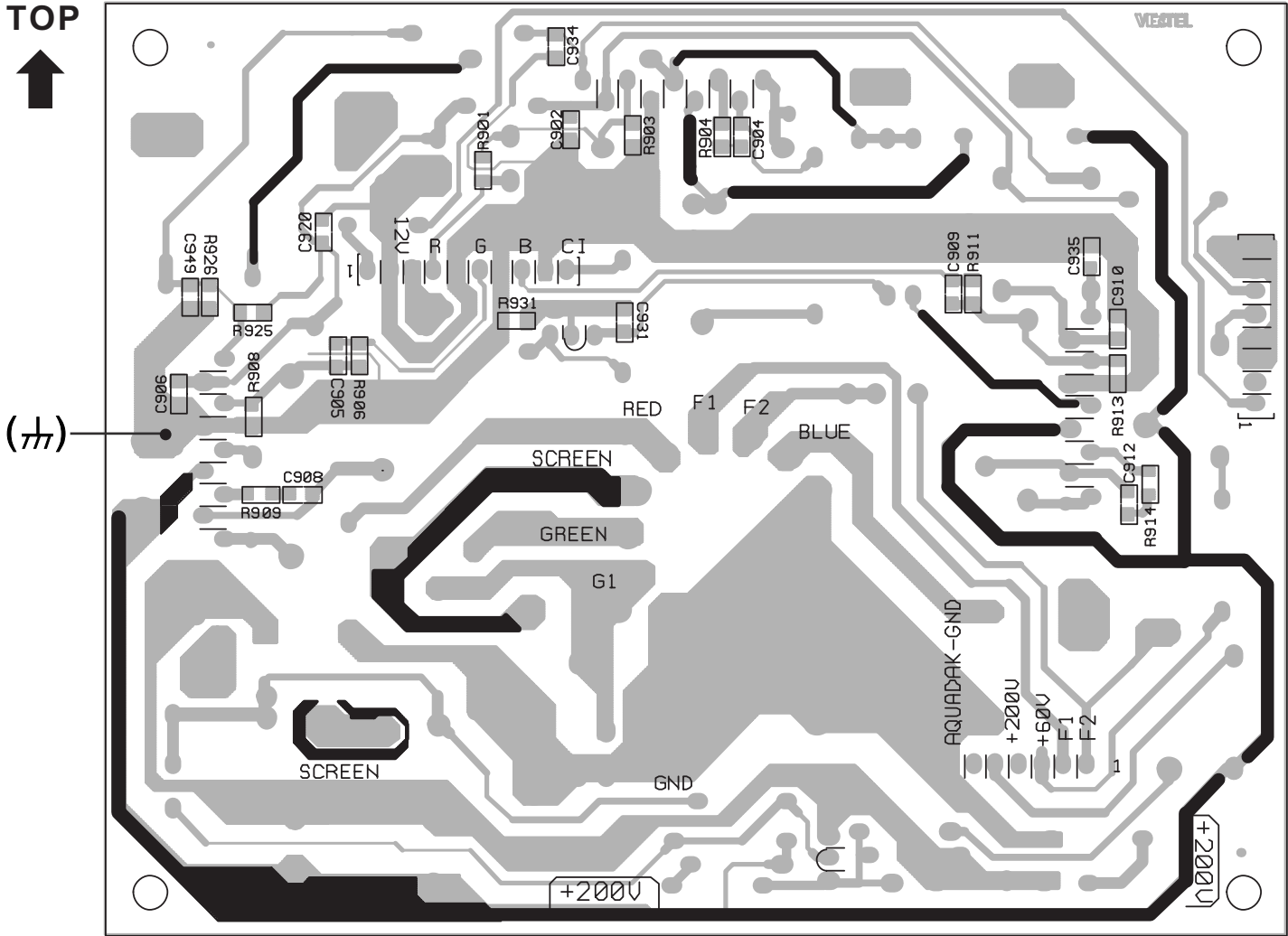


CRT SOCKET PWB PATTERN

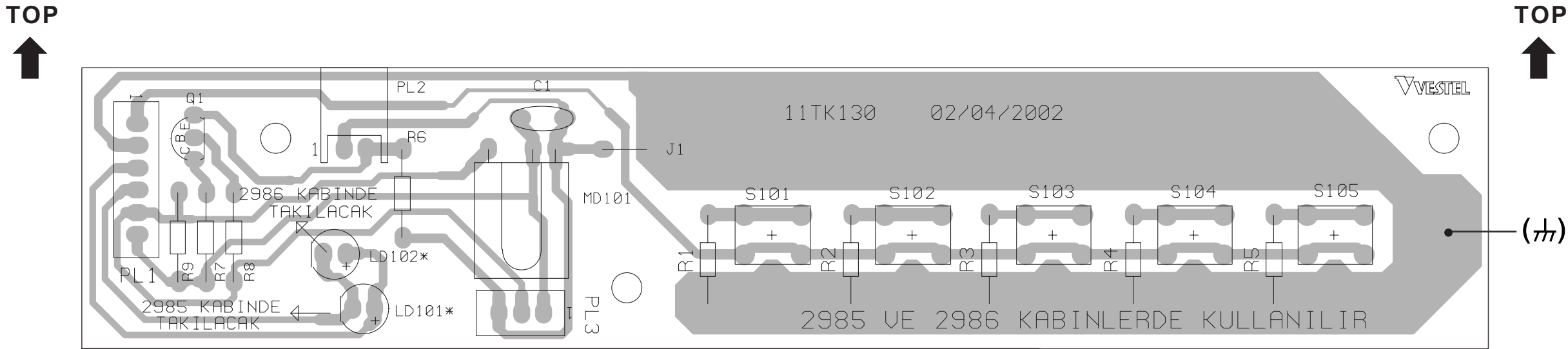
AV-29BH11ENS
AV-29BH11EPS
AV-29BH11EES

FRONT AV & HEADPHONE PWB PATTERN

AV-29BH11ENS
AV-29BH11EPS
AV-29BH11EES



FRONT CONTROL PWB PATTERN





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