

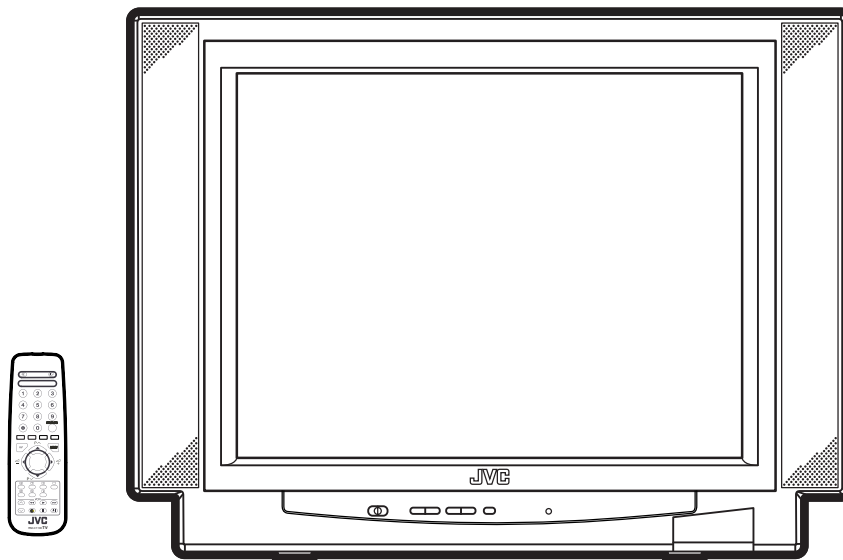
JVC

SCHEMATIC DIAGRAMS

COLOUR TELEVISION

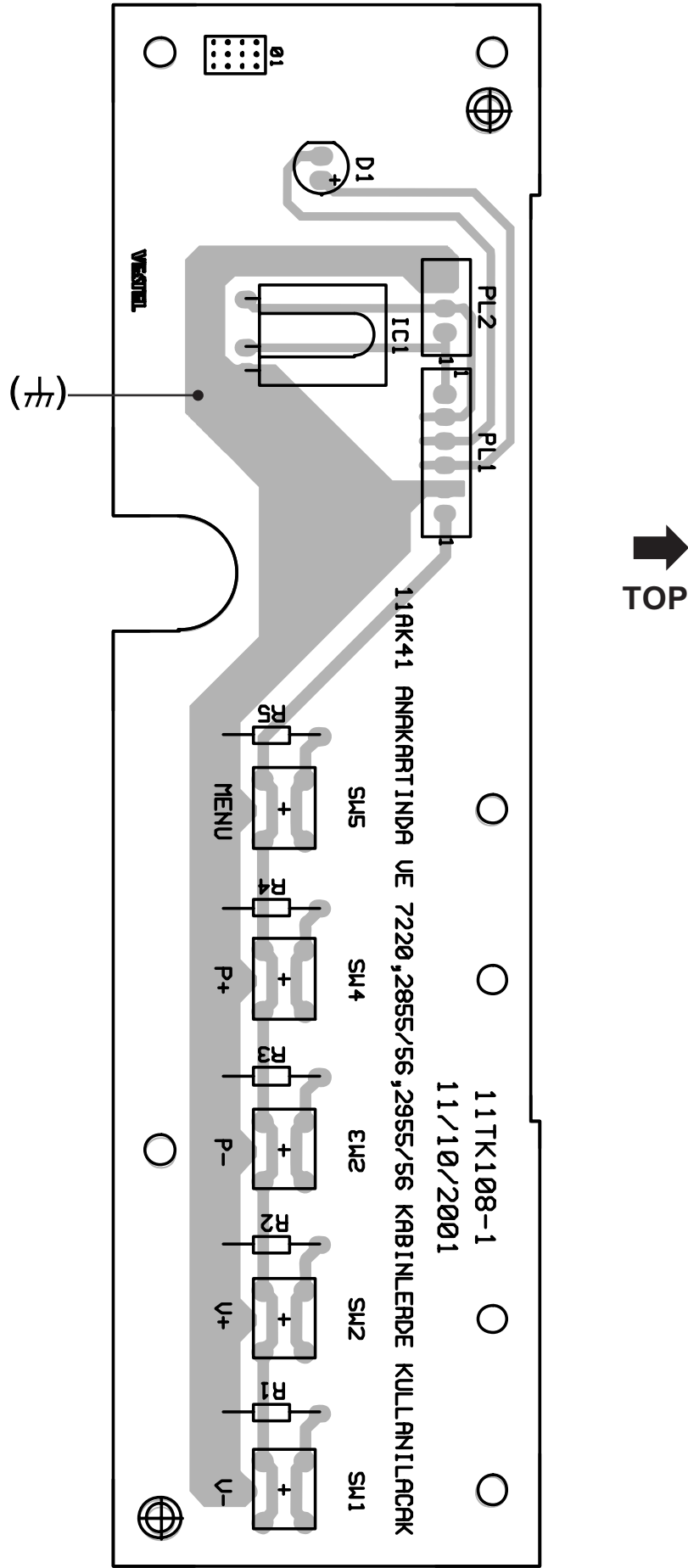
AV-28BT8ENS / AV-28BT8ENB
AV-28BT80EN / AV-28BT8EPS
AV-28BT8EPB / AV-28BT80EP
AV-28BT8EES / AV-28BT8EEB
AV-28BS88EN

CD-ROM No.SML200207



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AV-28BT8ENS, AV-28BT8ENB,AV-28BT80EN
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STANDARD CIRCUIT DIAGRAM

NOTE ON USING CIRCUIT DIAGRAMS

- 1.SAFETY
The components identified by the \triangle 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.


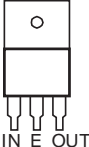
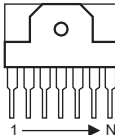
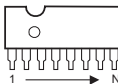
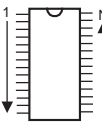
NOTE
◇ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.
When ordering parts, please use the numbers that appear in the Parts List.

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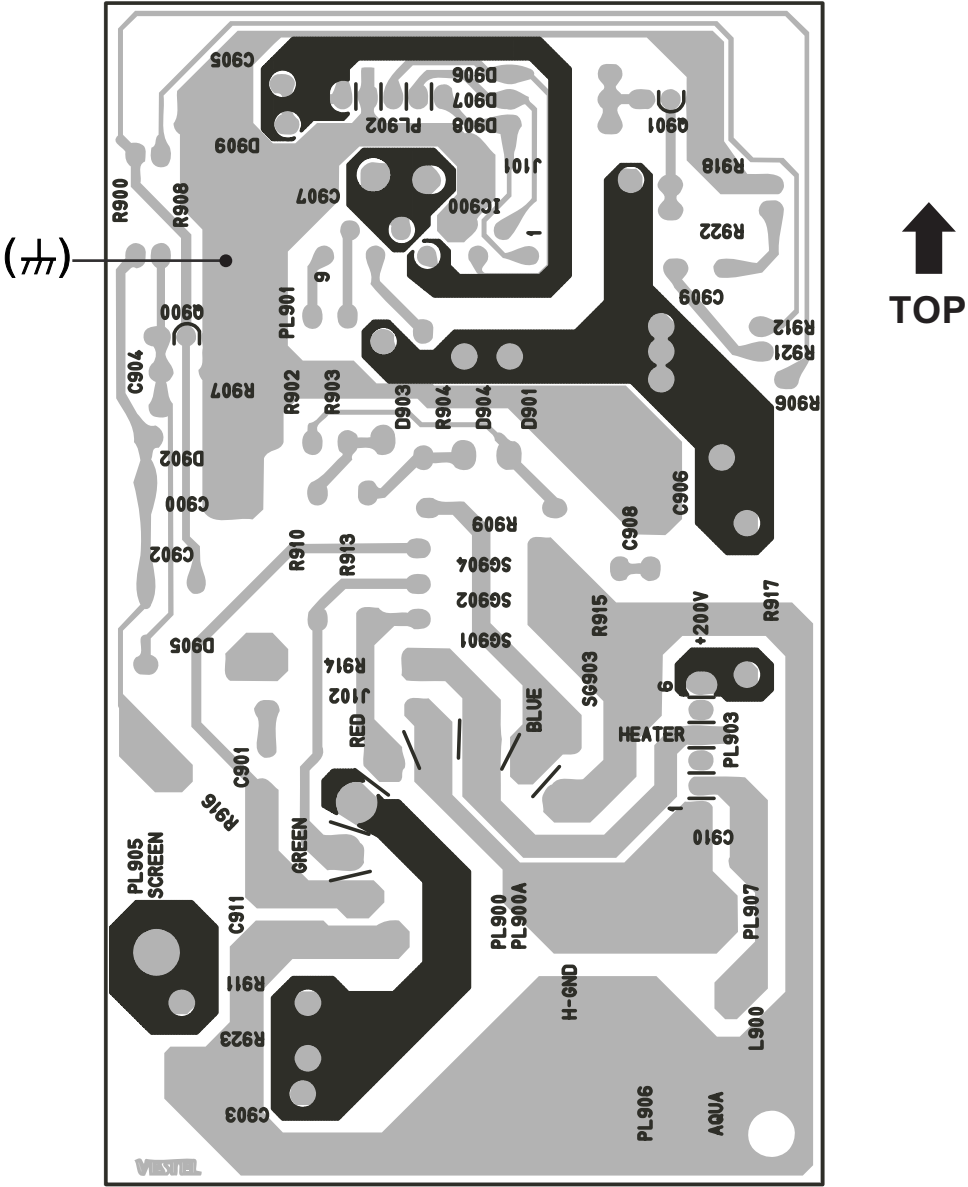
SEMICONDUCTOR SHAPES

TRANSISTOR					
BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

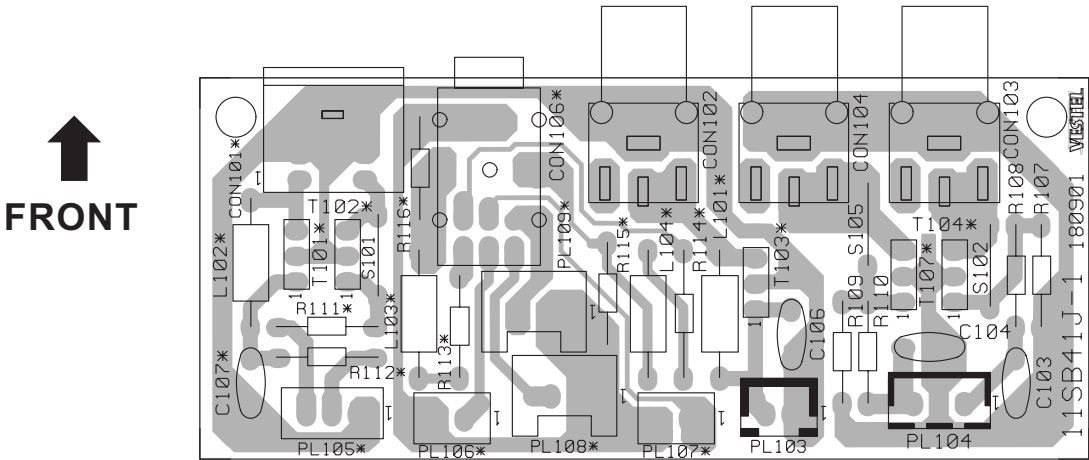
IC				
BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC		
TOP VIEW		

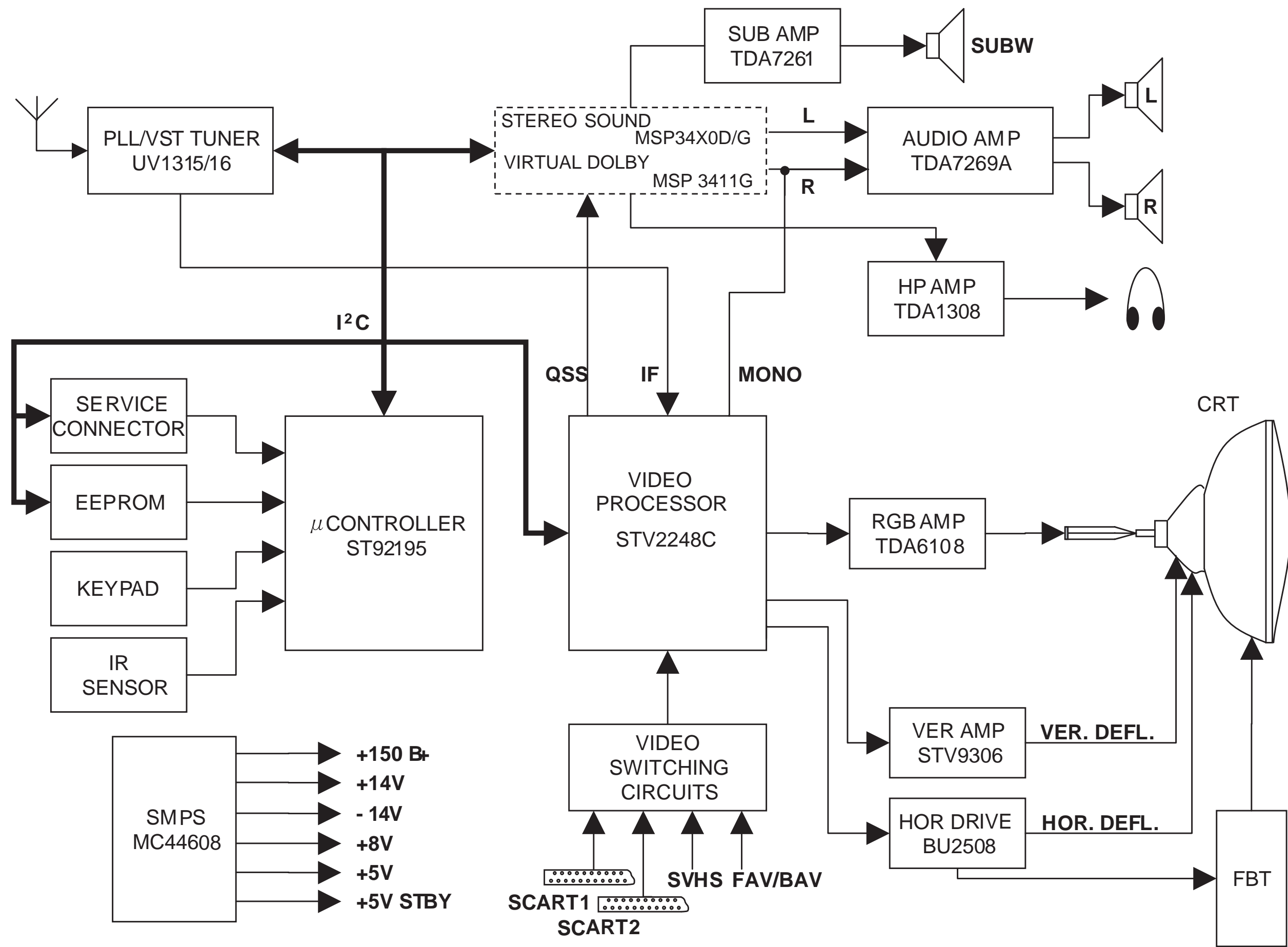
CRT SOCKET PWB PATTERN



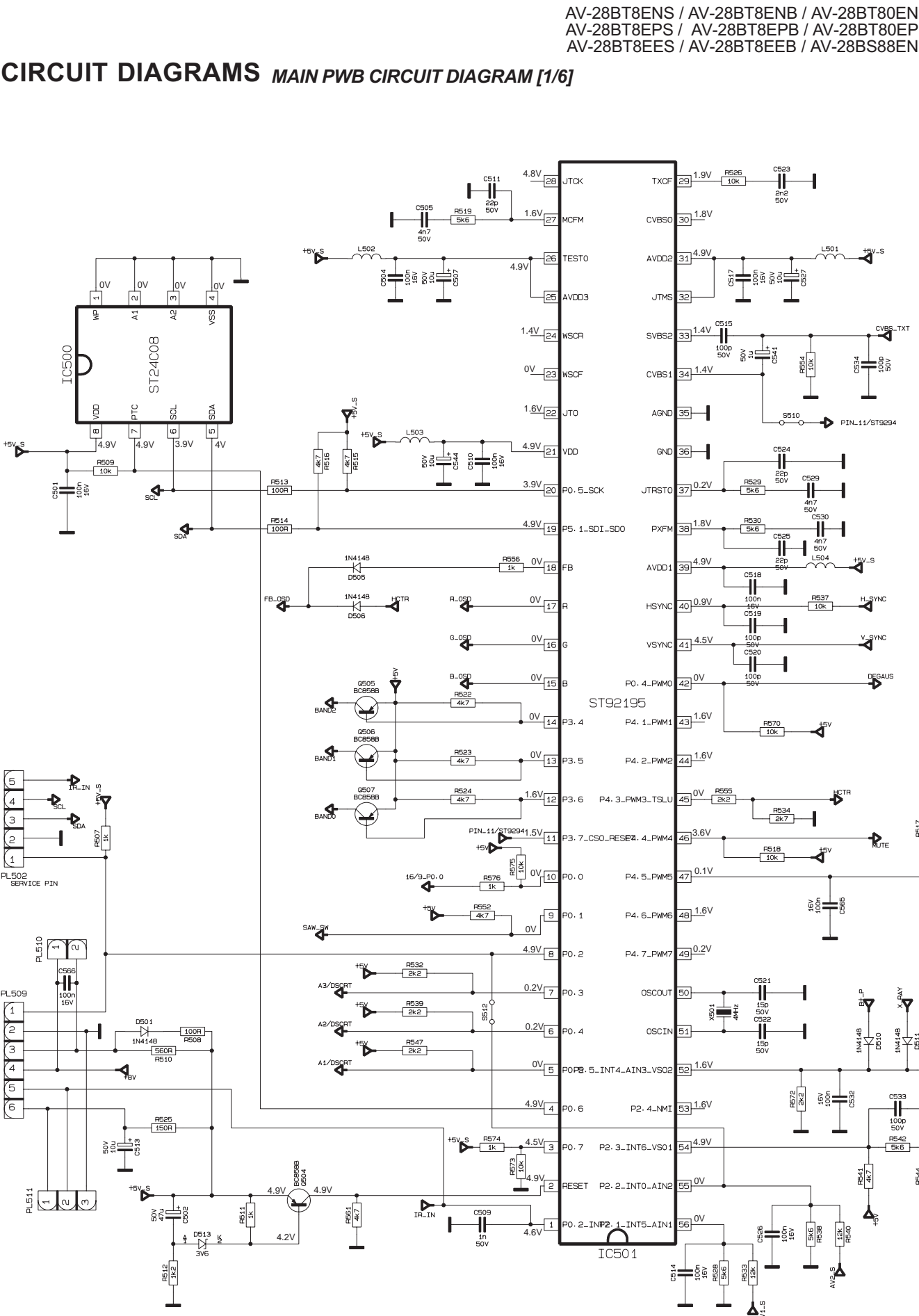
FRONT AV & HEADPHONE PWB PATTERN



BLOCK DIAGRAM

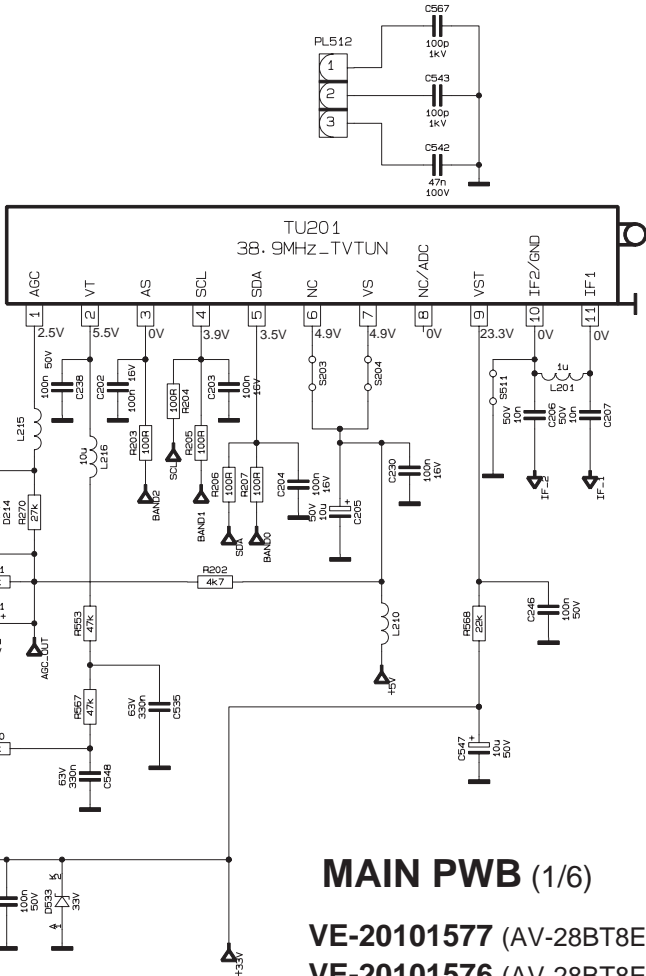
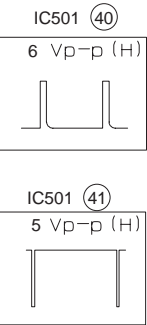


CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAM [1/6]



AV-28BT8ENS / AV-28BT8ENB / AV-28BT80EN
AV-28BT8EPS / AV-28BT8EPB / AV-28BT80EP
AV-28BT8EES / AV-28BT8EEB / AV-28BS88EN

DIFFERENCE LIST								
		EN	EE		EP		AV-28BS88EN	
Z401	30001705	FILTER SAW OFWG9353M	30013163	FILTER SAW K9356	30012545	FILTER SAW K9656M	30001705	FILTER SAW OFWG9353M
Z402	30015591	FILTER SAW G3967	30014261	FILTER SAW K3958M	30014261	FILTER SAW K3958M	30015591	FILTER SAW G3967
IC403	30014521	IC STV2247 (SHRINK56)	30014510	IC STV2248 (SHRINK56)	30014510	IC STV2248 (SHRINK56)	30014521	IC STV2247 (SHRINK56)
J217	30002583	KISA DEVRE TEL 0.6MM	30002583	KISA DEVRE TEL 0.6MM	—	—	30002583	KISA DEVRE TEL 0.6MM
L404	30002583	KISA DEVRE TEL 0.6MM	30001990	FIXED COIL 6.8UH Q75 K	30001990	FIXED COIL 6.8UH Q75 K	30002583	KISA DEVRE TEL 0.6MM
L407	—	—	—	—	30001992	FIXED COIL 10UH Q65 K-A	—	—
Z404	—	—	30001724	FILTER SER TRAP TPS 5.5MHZ	30001724	FILTER SER TRAP TPS 5.5MHZ	—	—
C457	—	—	30012578	CAP SMD 68PF 50V J (0603)	30012560	CAP SMD 100PF 50V J (0603)	—	—
S411	30012985	JUMPER SMD 0603	30012985	JUMPER SMD 0603	—	—	30012985	JUMPER SMD 0603
Q402	—	—	—	—	30001457	TR BC848B SMD	—	—
D402	—	—	—	—	30012411	DIODE BA782 SMD	—	—
R402	—	—	—	—	30012692	RES SMD 1/16W 4.7K J (0603)	—	—
R407	—	—	—	—	30000471	RES CF 1/4W 10K J	—	—
R410	—	—	—	—	30000471	RES CF 1/4W 10K J	—	—
R412	—	—	—	—	30000723	RES CF 1/4W 47K J	—	—
R552	—	—	—	—	30012692	RES SMD 1/16W 4.7K J (0603)	—	—
C446	—	—	—	—	30000345	CAP EL 10UF 50V M	—	—
NOT2	—	—	—	—	30009831	CABLE 0.6MM BLUE (5CM)	—	—
NOT1	—	—	—	—	30009847	CABLE 0.6MM BLUE (8CM)	—	—
IC500	20099532	IC 24C08 T27981110A101211012(J	20101623	IC 24C08 T34286110B101211012(J	20099534	IC 24C08 T28087110A101211012(J	20101581	IC 24C08 T34181110A101211112(J
IC501	20093395	PR.IC.37-7PGTXT ST92195C 64K	—	—	—	—	20101580	PR.IC.37-7PGTXT ST92195C 64K S
IC700	30013658	IC MSP3410G SDIP64	—	—	—	—	30009354	IC MSP3411 SDIP64
S701	—	—	—	—	—	—	30002583	KISA DEVRE TELI 0.6MM

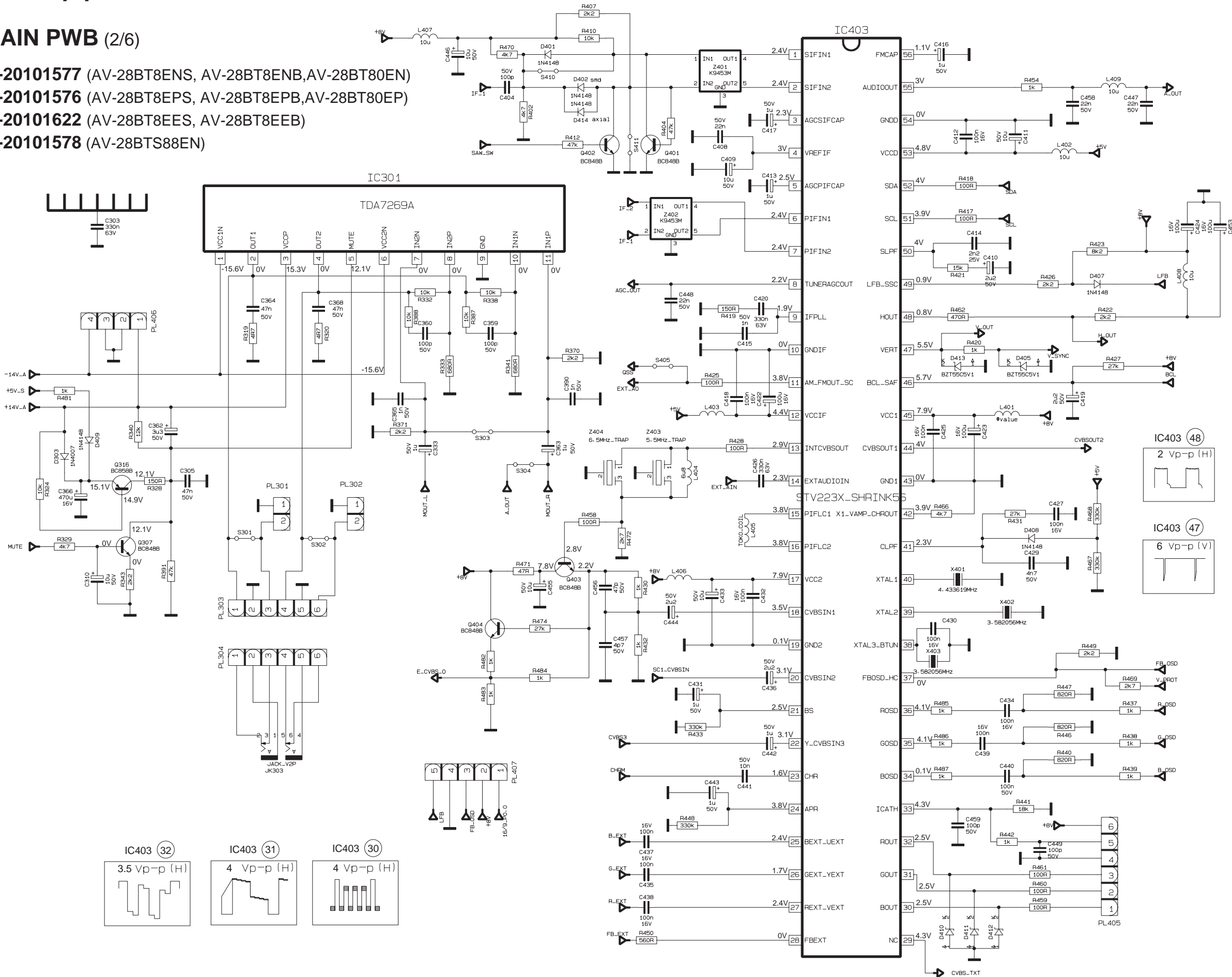


MAIN PWB (1/6)

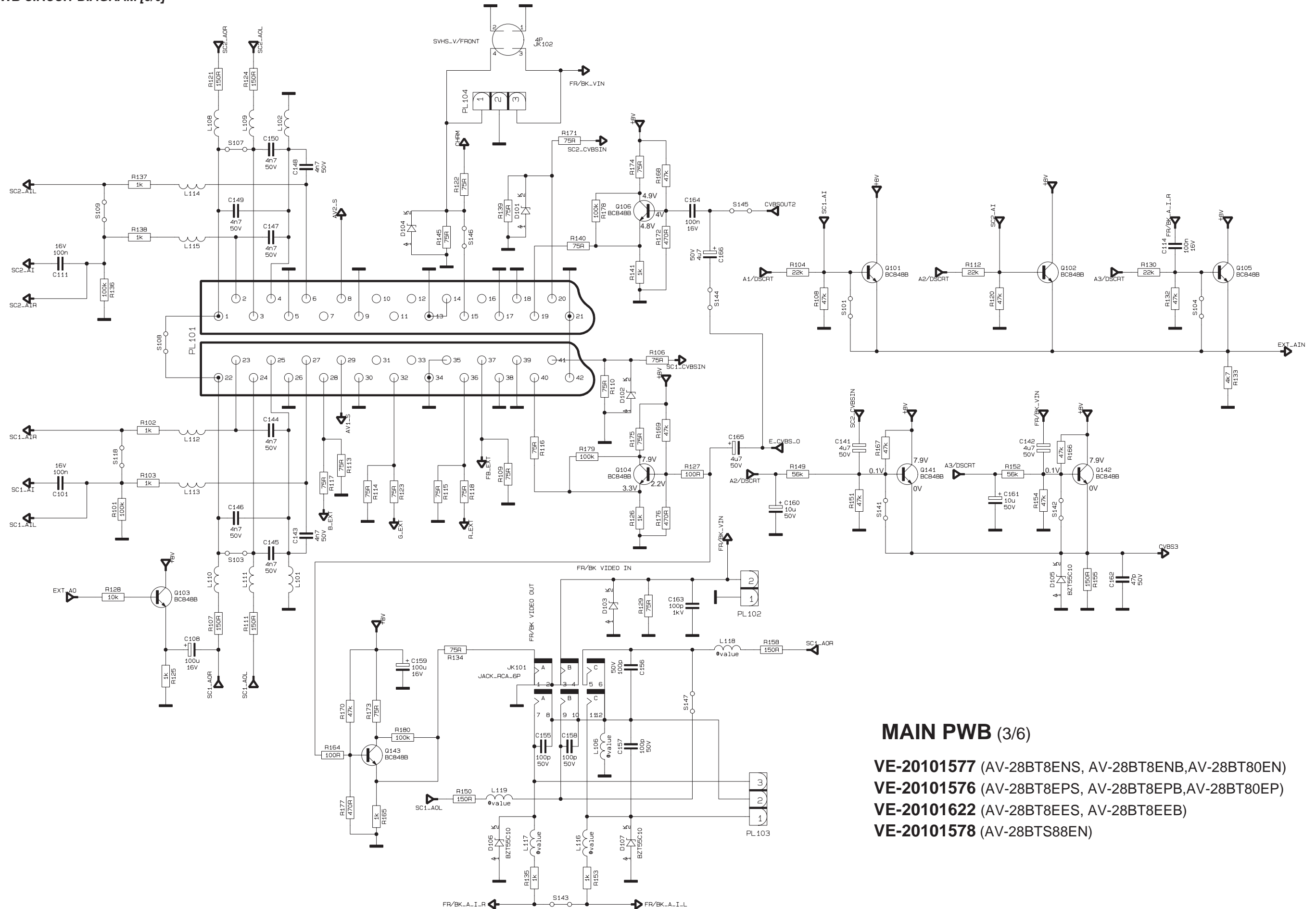
VE-20101577 (AV-28BT8ENS, AV-28BT8ENB,AV-28BT80EN)
VE-20101576 (AV-28BT8EPS, AV-28BT8EPB,AV-28BT80EP)
VE-20101622 (AV-28BT8EES, AV-28BT8EEB)
VE-20101578 (AV-28BTS88EN)

MAIN PWB (2/6)

VE-20101577 (AV-28BT8ENS, AV-28BT8ENB,AV-28BT80EN)
VE-20101576 (AV-28BT8EPS, AV-28BT8EPB,AV-28BT80EP)
VE-20101622 (AV-28BT8EES, AV-28BT8EEB)
VE-20101578 (AV-28BTS88EN)



MAIN PWB CIRCUIT DIAGRAM [3/6]



MAIN PWB (3/6)

VE-20101577 (AV-28BT8ENS, AV-28BT8ENB,AV-28BT80EN)

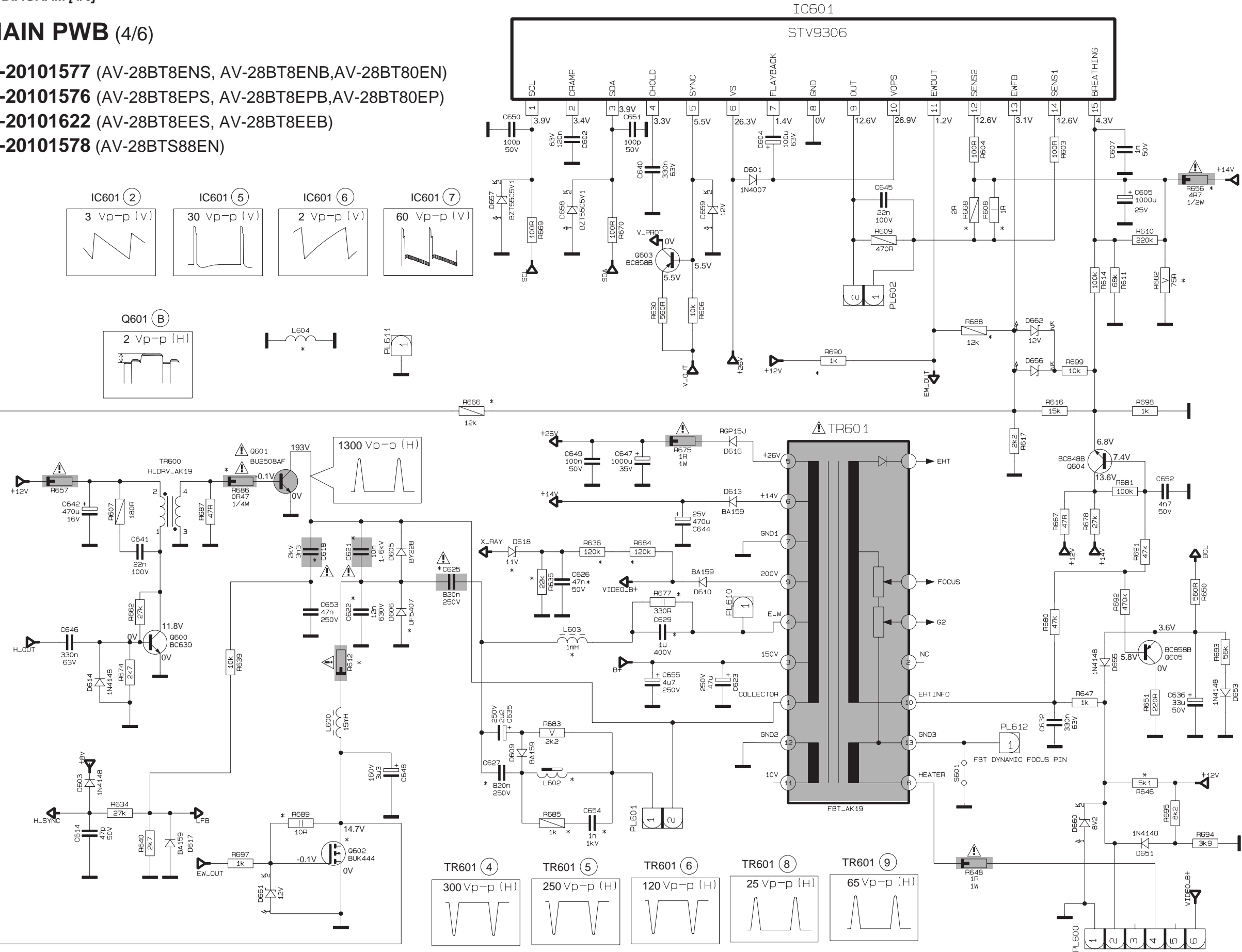
VE-20101576 (AV-28BT8EPS, AV-28BT8EPB,AV-28BT80EP)

VE-20101622 (AV-28BT8EES, AV-28BT8EEB)

VE-20101578 (AV-28BTS88EN)

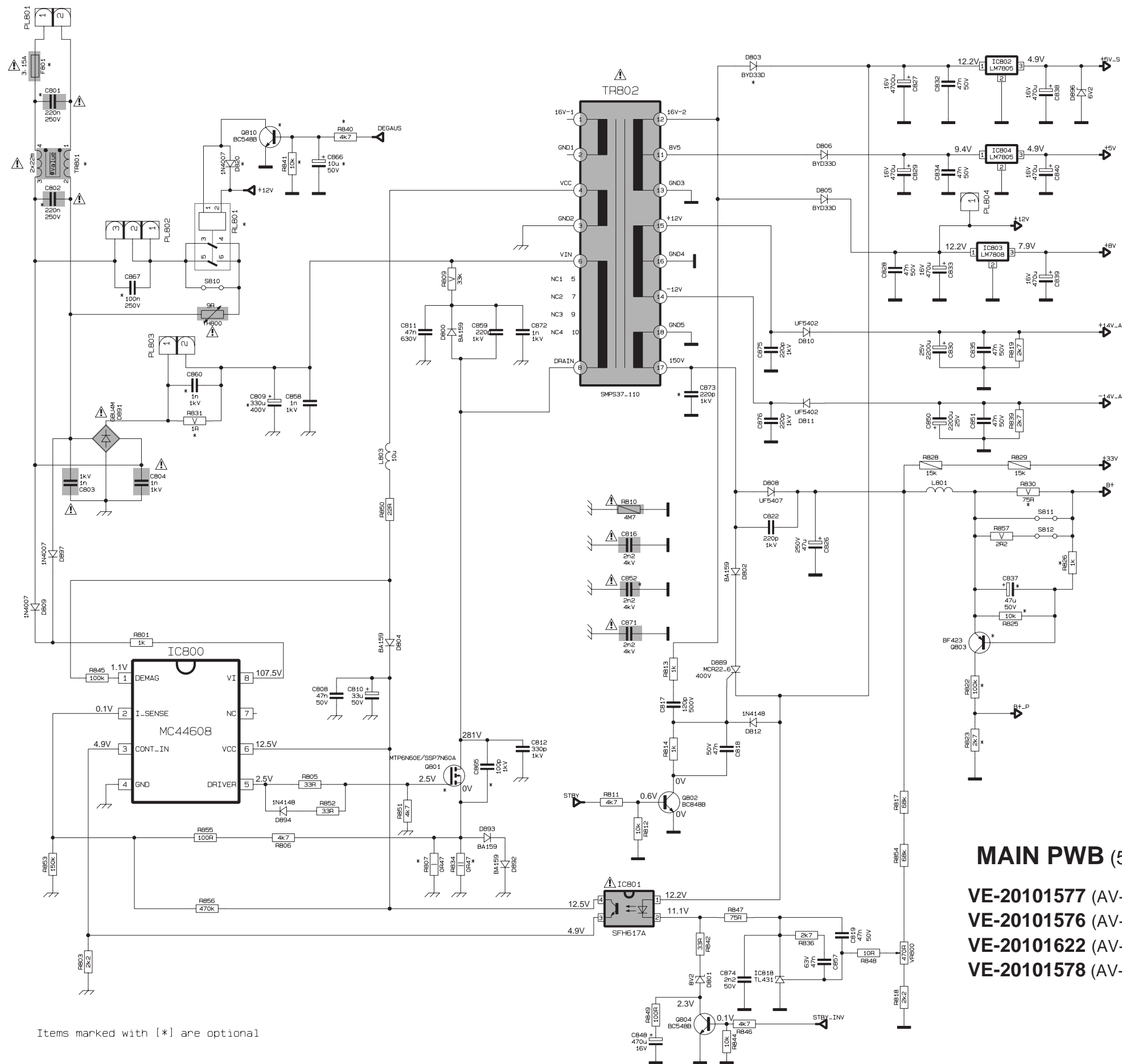
MAIN PWB (4/6)

- VE-20101577 (AV-28BT8ENS, AV-28BT8ENB,AV-28BT80EN)
VE-20101576 (AV-28BT8EPS, AV-28BT8EPB,AV-28BT80EP)
VE-20101622 (AV-28BT8EES, AV-28BT8EEB)
VE-20101578 (AV-28BTS88EN)



Items marked with [*] are optional

MAIN PWB CIRCUIT DIAGRAM [5/6]



Items marked with [*] are optional

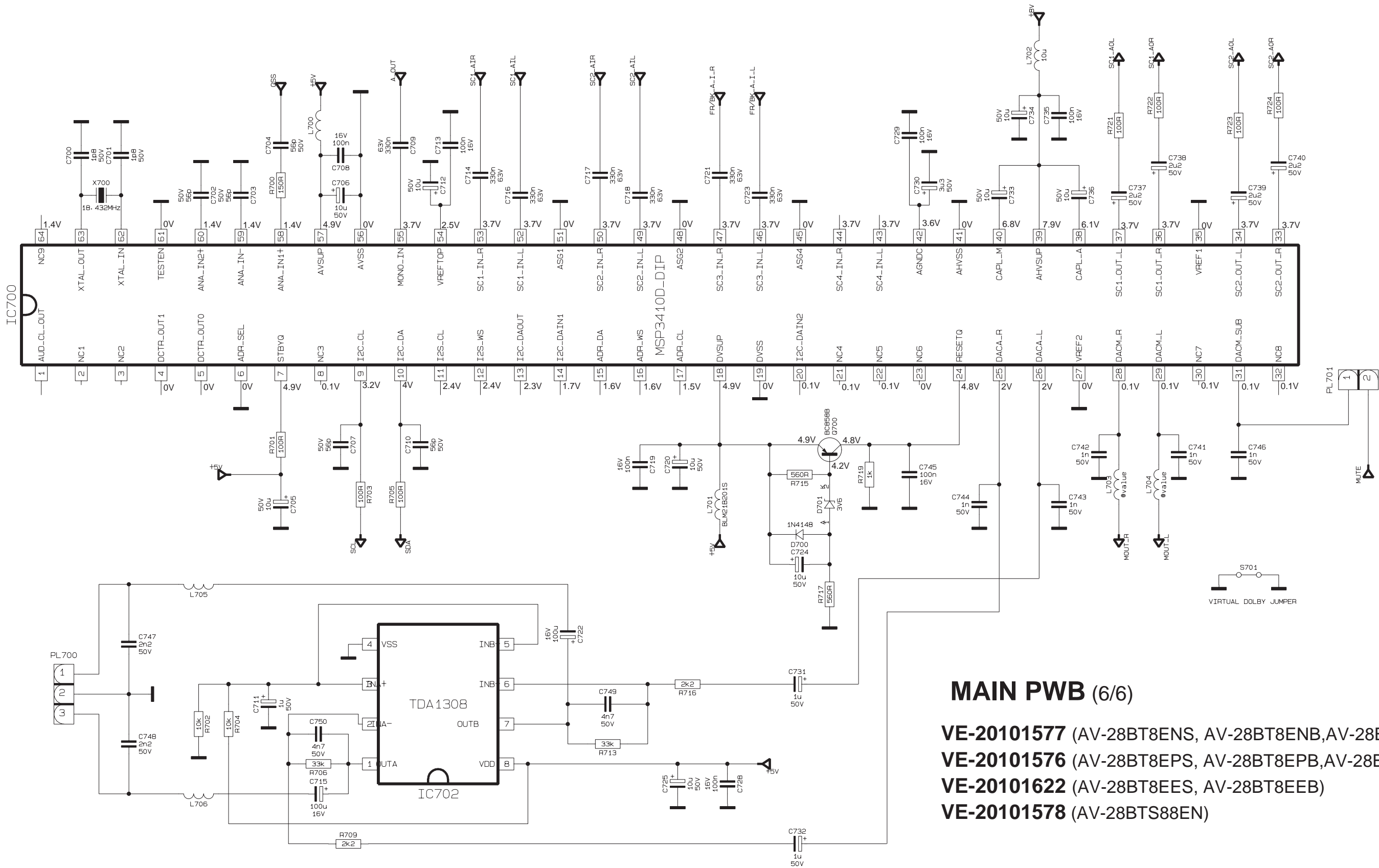
MAIN PWB (5/6)

- VE-20101577 (AV-28BT8ENS, AV-28BT8ENB,AV-28BT80EN)
- VE-20101576 (AV-28BT8EPS, AV-28BT8EPB,AV-28BT80EP)
- VE-20101622 (AV-28BT8EES, AV-28BT8EEB)
- VE-20101578 (AV-28BTS88EN)

AV-28BT8ENS / AV-28BT8ENB / AV-28BT80EN
AV-28BT8EPS / AV-28BT8EPB / AV-28BT80EP
AV-28BT8EES / AV-28BT8EEB / AV-28BS88EN

AV-28BT8ENS / AV-28BT8ENB / AV-28BT80EN
AV-28BT8EPS / AV-28BT8EPB / AV-28BT80EP
AV-28BT8EES / AV-28BT8EEB / AV-28BS88EN

MAIN PWB CIRCUIT DIAGRAM [6/6]



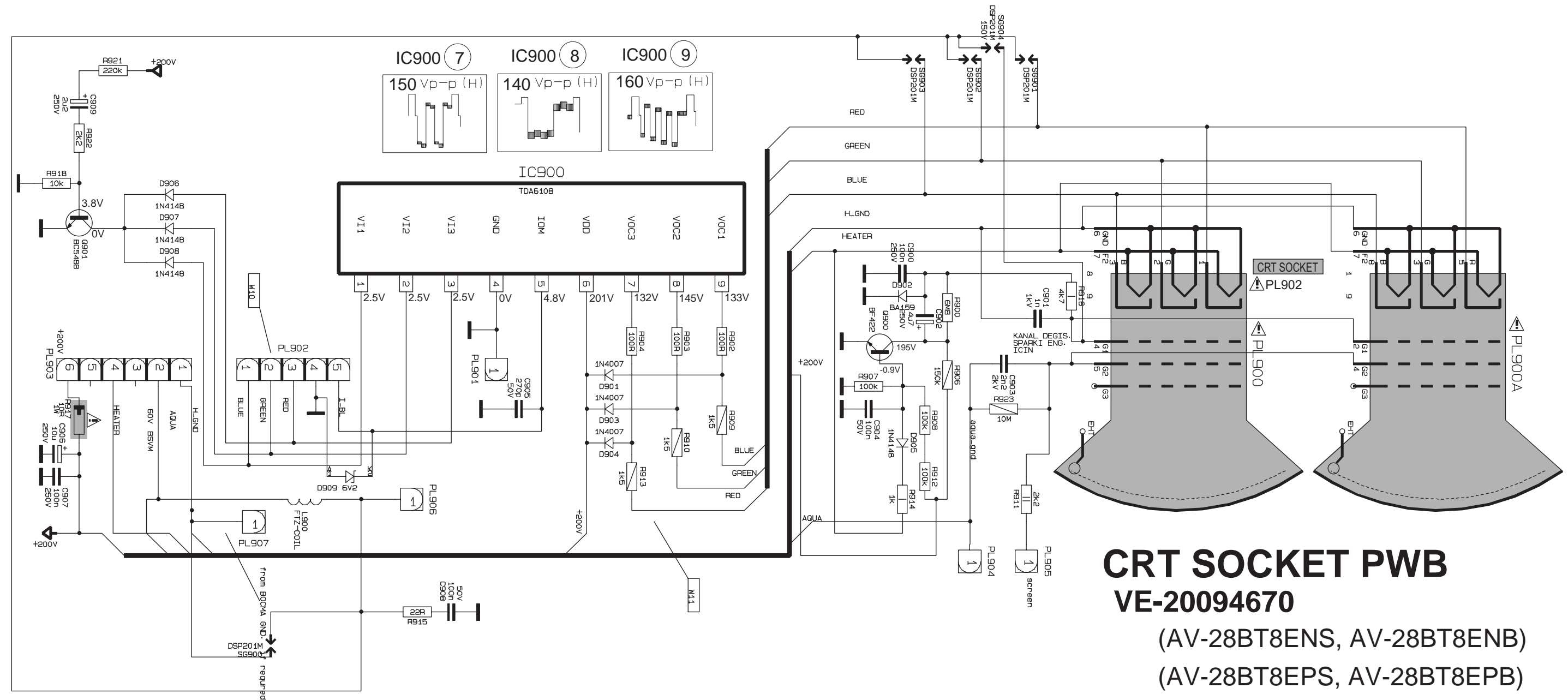
MAIN PWB (6/6)

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VE-20101576 (AV-28BT8EPS, AV-28BT8EPB,AV-28BT80EP)
VE-20101622 (AV-28BT8EES, AV-28BT8EEB)
VE-20101578 (AV-28BTS88EN)

CRT SOCKET PWB

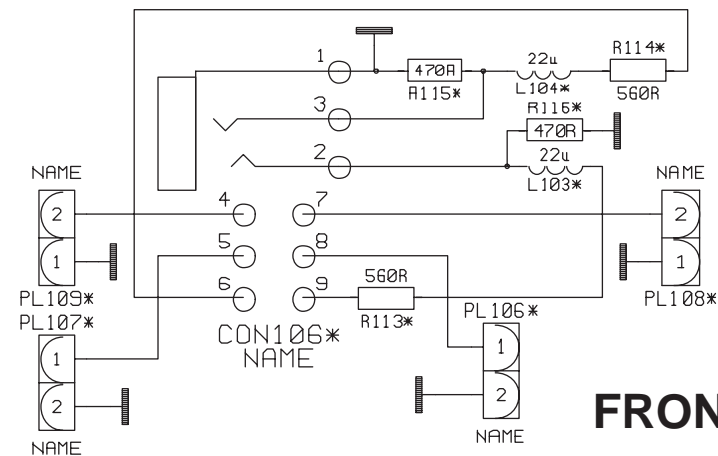
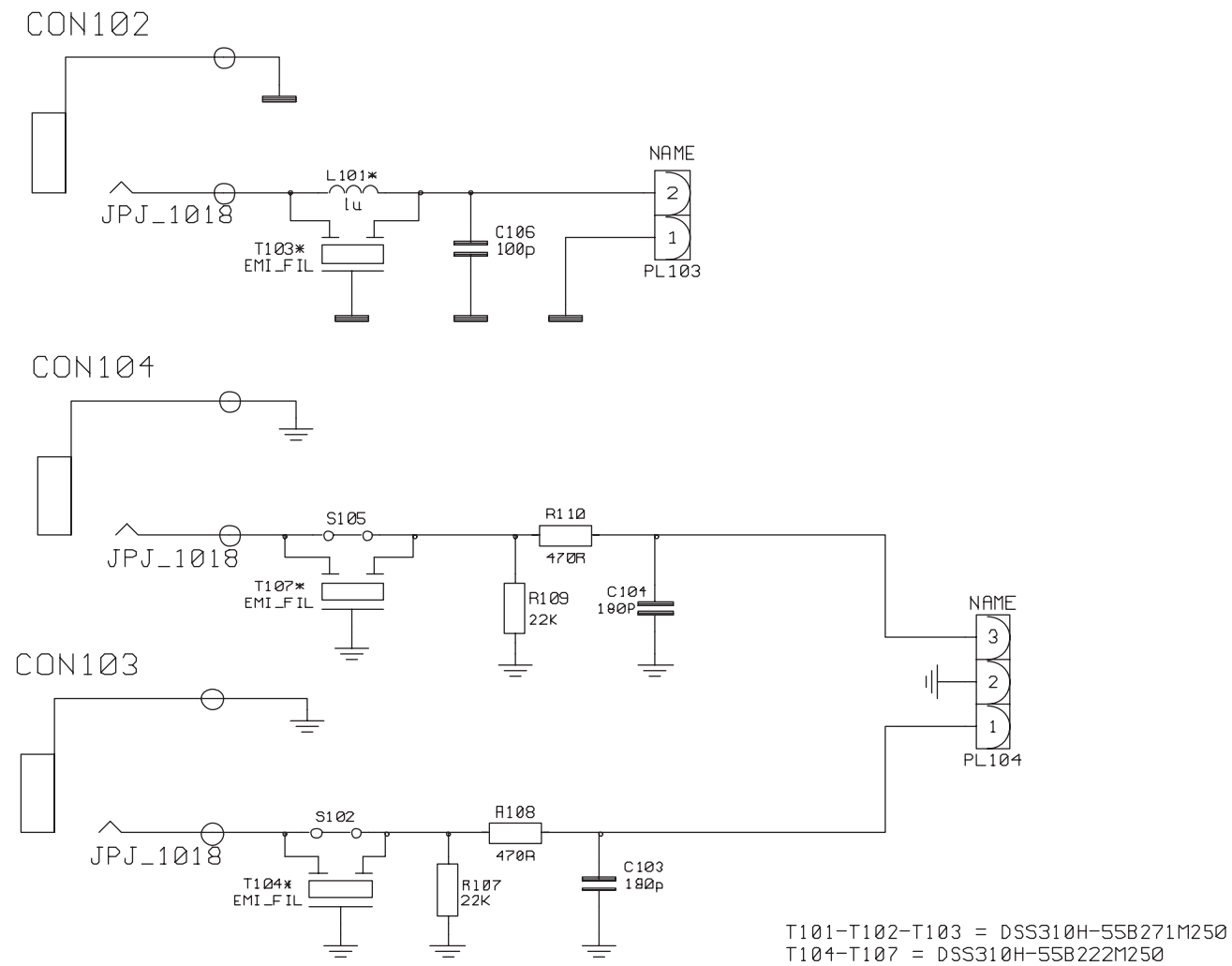
VE-20094670

(AV-28BT8ENS, AV-28BT8ENB)
(AV-28BT8EPS, AV-28BT8EPB)
(AV-28BT8EES, AV-28BT8EEB)



AV-28BT8ENS / AV-28BT8ENB / AV-28BT80EN
AV-28BT8EPS / AV-28BT8EPB / AV-28BT80EP
AV-28BT8EES / AV-28BT8EEB / AV-28BS88EN

FRONT AV & HEADPHONE PWB CIRCUIT DIAGRAM

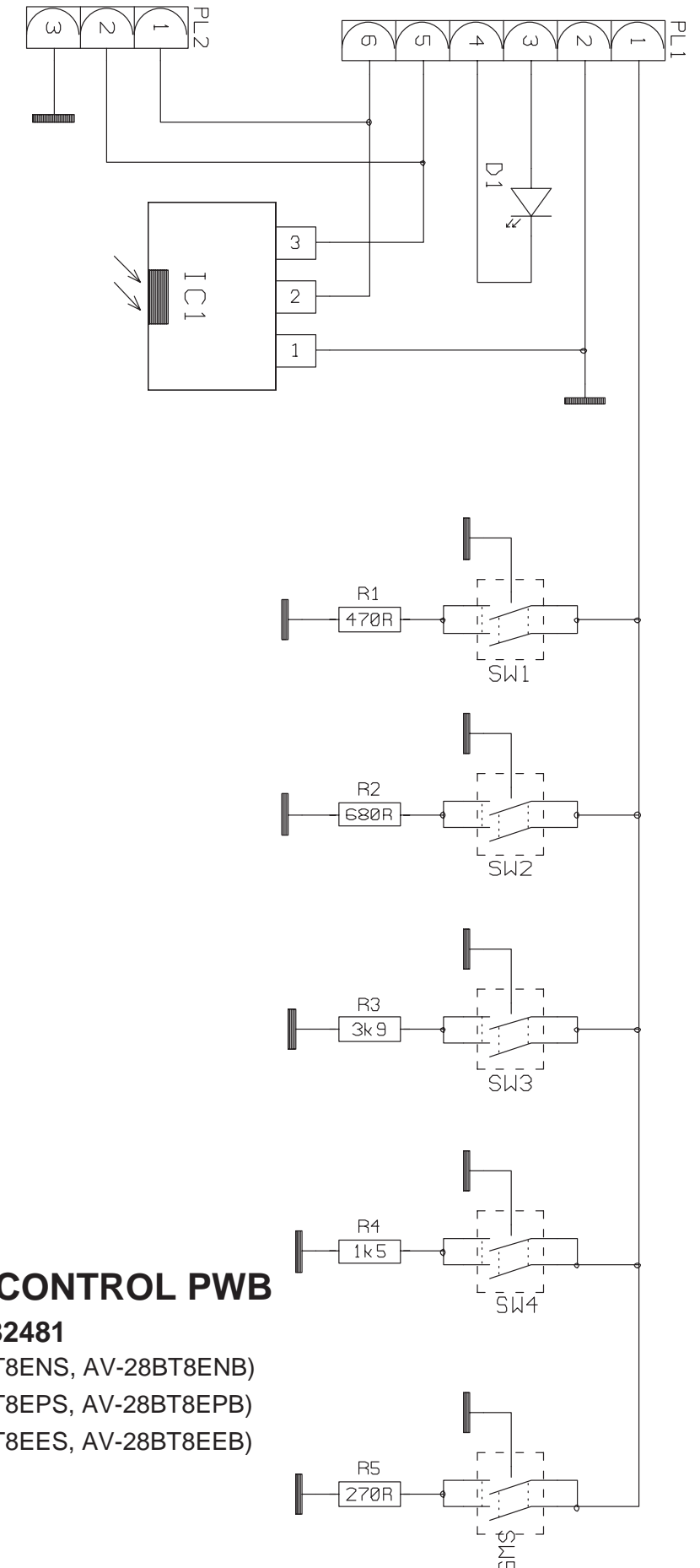


FRONR AV & HEADPHONE PWB
VE-20083646

(AV-28BT8ENS, AV-28BT8ENB)
(AV-28BT8EPS, AV-28BT8EPB)
(AV-28BT8EES, AV-28BT8EEB)

AV-28BT8ENS / AV-28BT8ENB / AV-28BT80EN
AV-28BT8EPS / AV-28BT8EPB / AV-28BT80EP
AV-28BT8EES / AV-28BT8EEB / AV-28BS88EN

FRONT CONTROL PWB CIRCUIT DIAGRAM



FRONT CONTROL PWB
VE-20082481

(AV-28BT8ENS, AV-28BT8ENB)
(AV-28BT8EPS, AV-28BT8EPB)
(AV-28BT8EES, AV-28BT8EEB)

AV-28BT8ENS / AV-28BT8ENB / AV-28BT80EN
AV-28BT8EPS / AV-28BT8EPB / AV-28BT80EP
AV-28BT8EES / AV-28BT8EEB / AV-28BS88EN

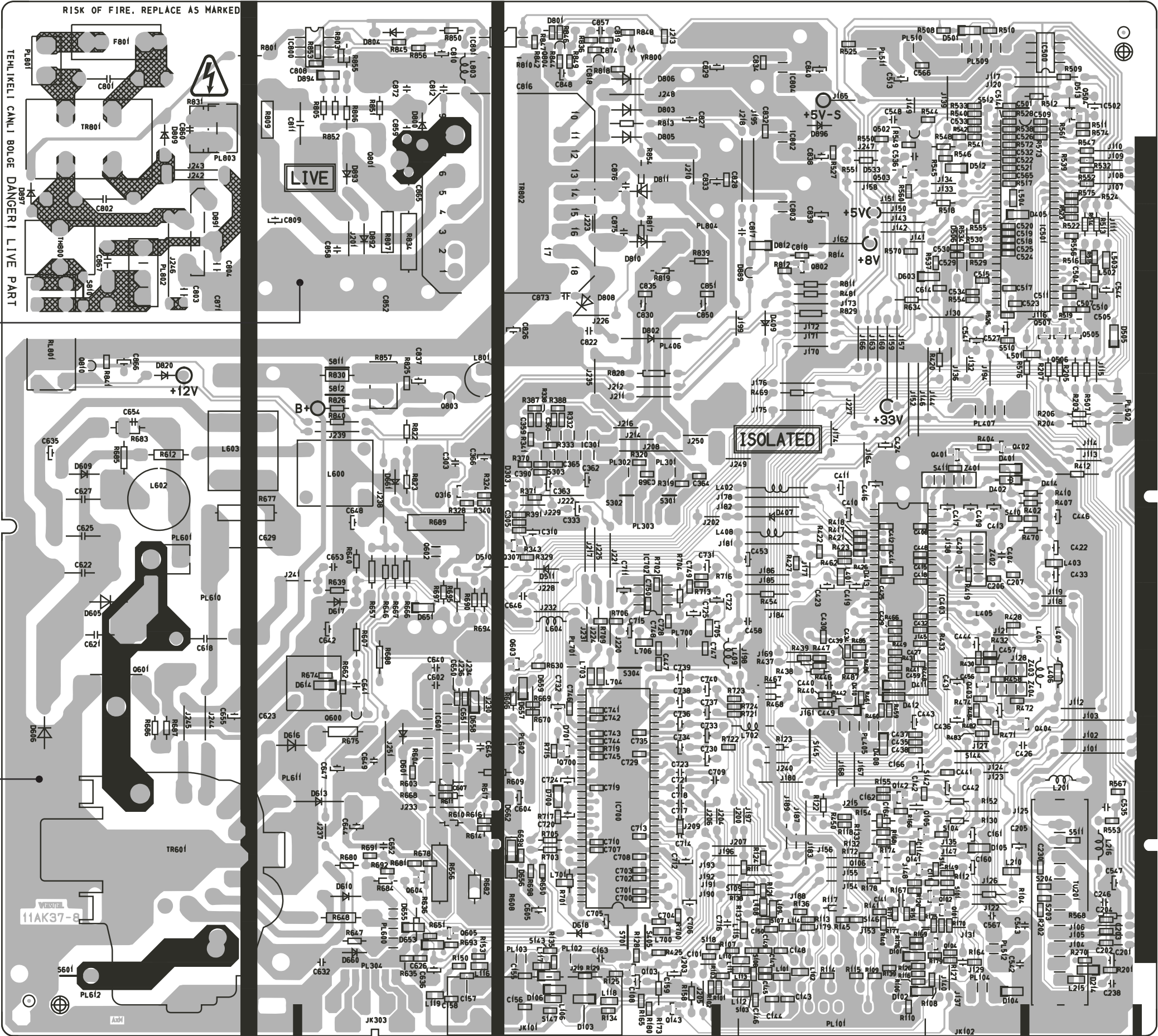
AV-28BT8ENS / AV-28BT8ENB / AV-28BT80EN
AV-28BT8EPS / AV-28BT8EPB / AV-28BT80EP
AV-28BT8EES / AV-28BT8EEB / AV-28BS88EN

PATTERN DIAGRAMS MAIN PWB PATTERN

FRONT

(1)

(11)





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