

JVC

SCHEMATIC DIAGRAMS

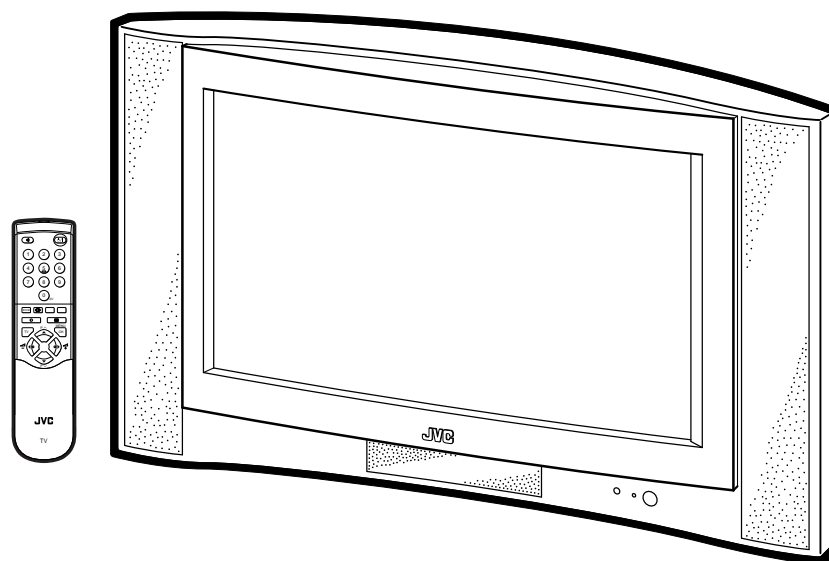
COLOUR TELEVISION

**AV32X25EUS / AV32X250EUS
AV32X25EIGY / AV32X25EKG
AV28X25EUS / AV28X25EIGY
AV28X25EKG**

BASIC CHASSIS

MF II

CD-ROM No.SML200206



InterArt
Natural Vision
T-V LINK

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AV32X25EUS / AV32X250EUS / AV32X25EIGY / AV32X25EKGY AV28X25EUS / AV28X25EIGY / AV28X25EKGY

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.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board

:R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

- Resistance value

- No unit

: [Ω]
- K

: [K Ω]
- M

: [M Ω]

- Rated allowable power

- No indication

: 1/ 16 [W]
- Others

: As specified

- 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)Power Supply

- 

:B1



:B2 (12V)
- 

:9V



:5V

* Respective voltage values are indicated

(5)Test point


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:Test point




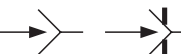
:Only test point display

(6)Connecting method

- 


:Connector





:Wrapping or soldering
- 


:Receptacle

(7)Ground symbol

- 



:LIVE side ground
- 

:ISOLATED(NEUTRAL) side ground
- 

:EARTH ground
- 

:DIGITAL ground

5.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.

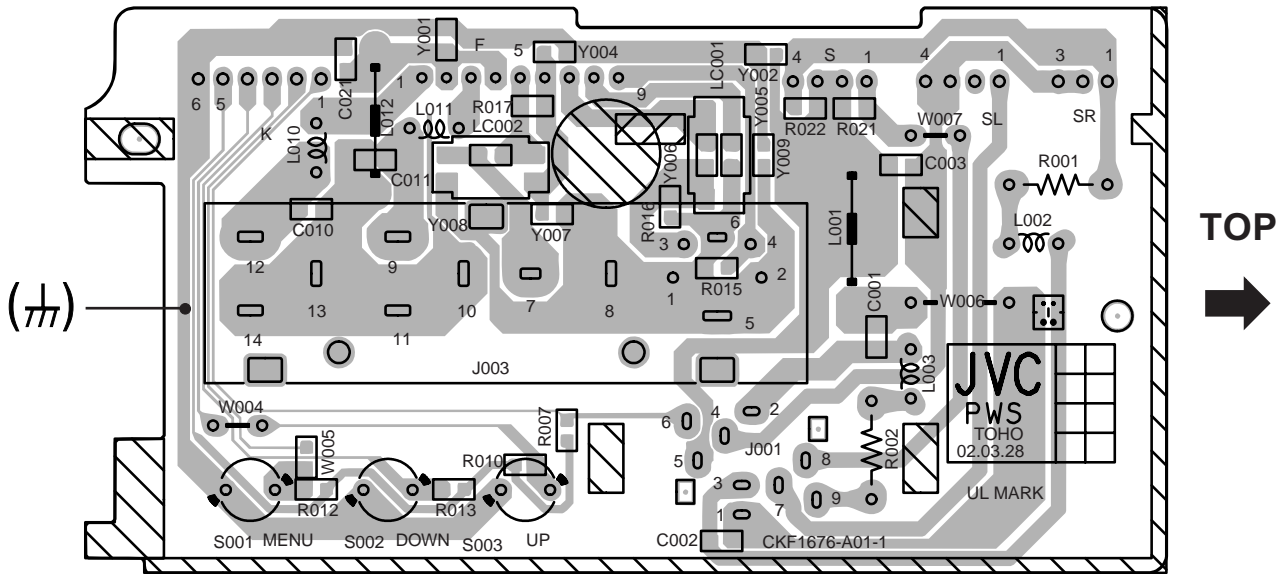
- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(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

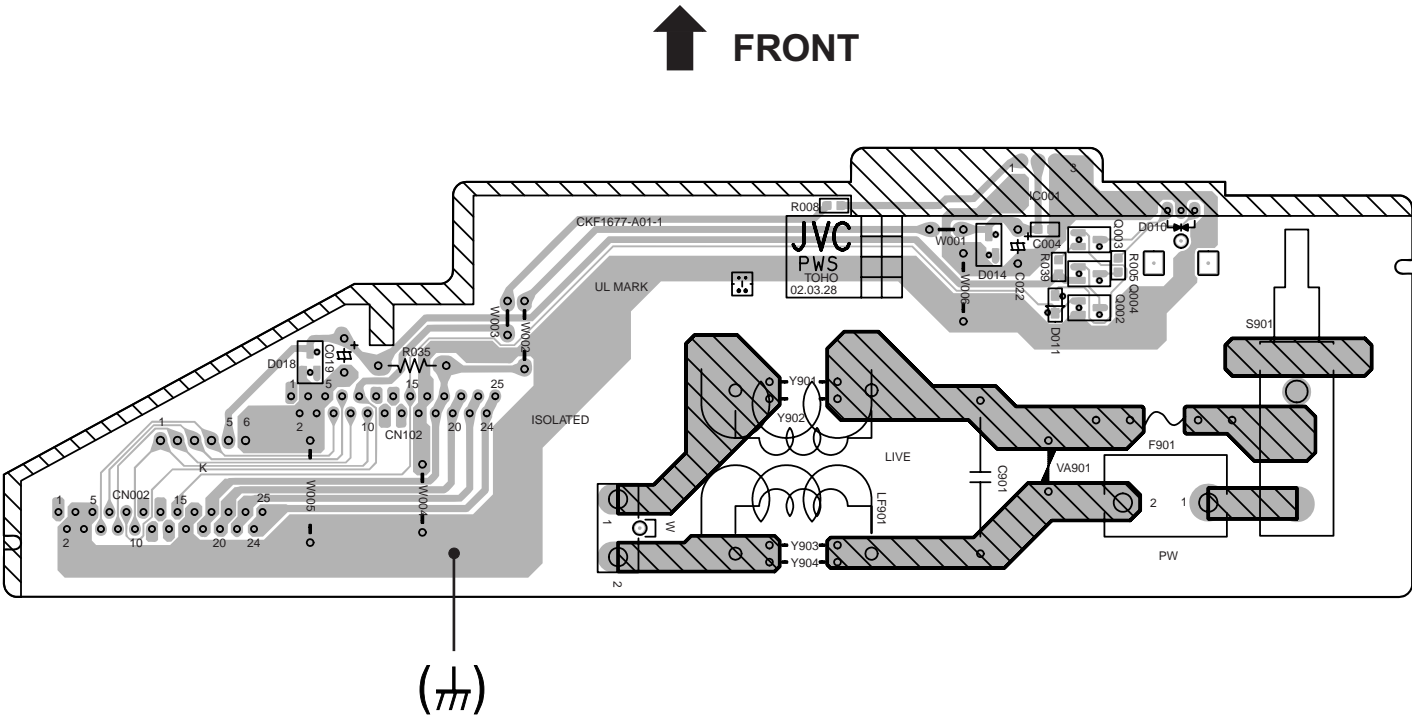
IC

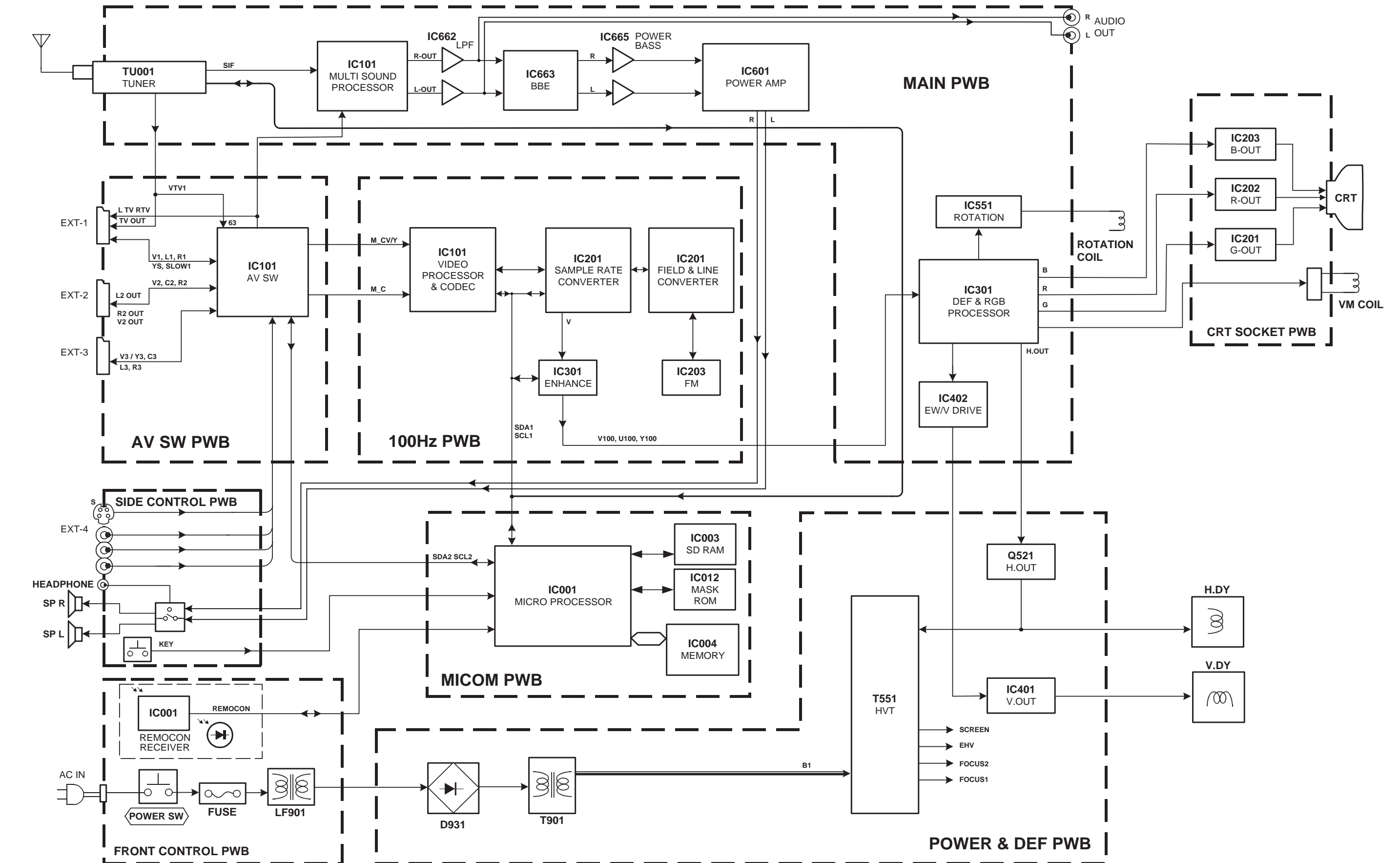
BOTTOM VIEW	FRONT VIEW			TOP VIEW

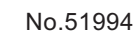
CHIP IC

TOP VIEW		

FRONT CONTROL PWB PATTERN

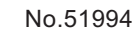




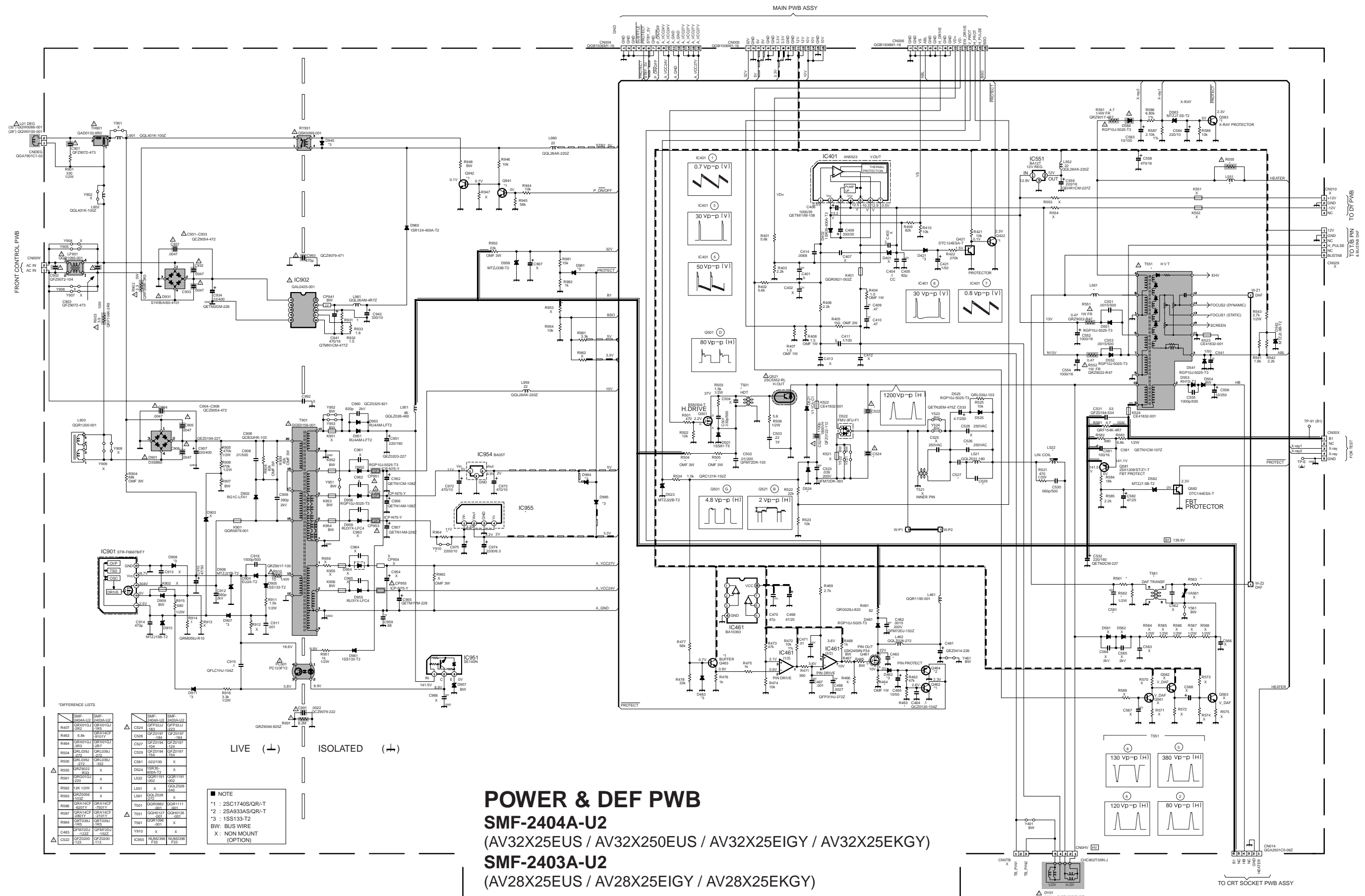


MAIN PWB

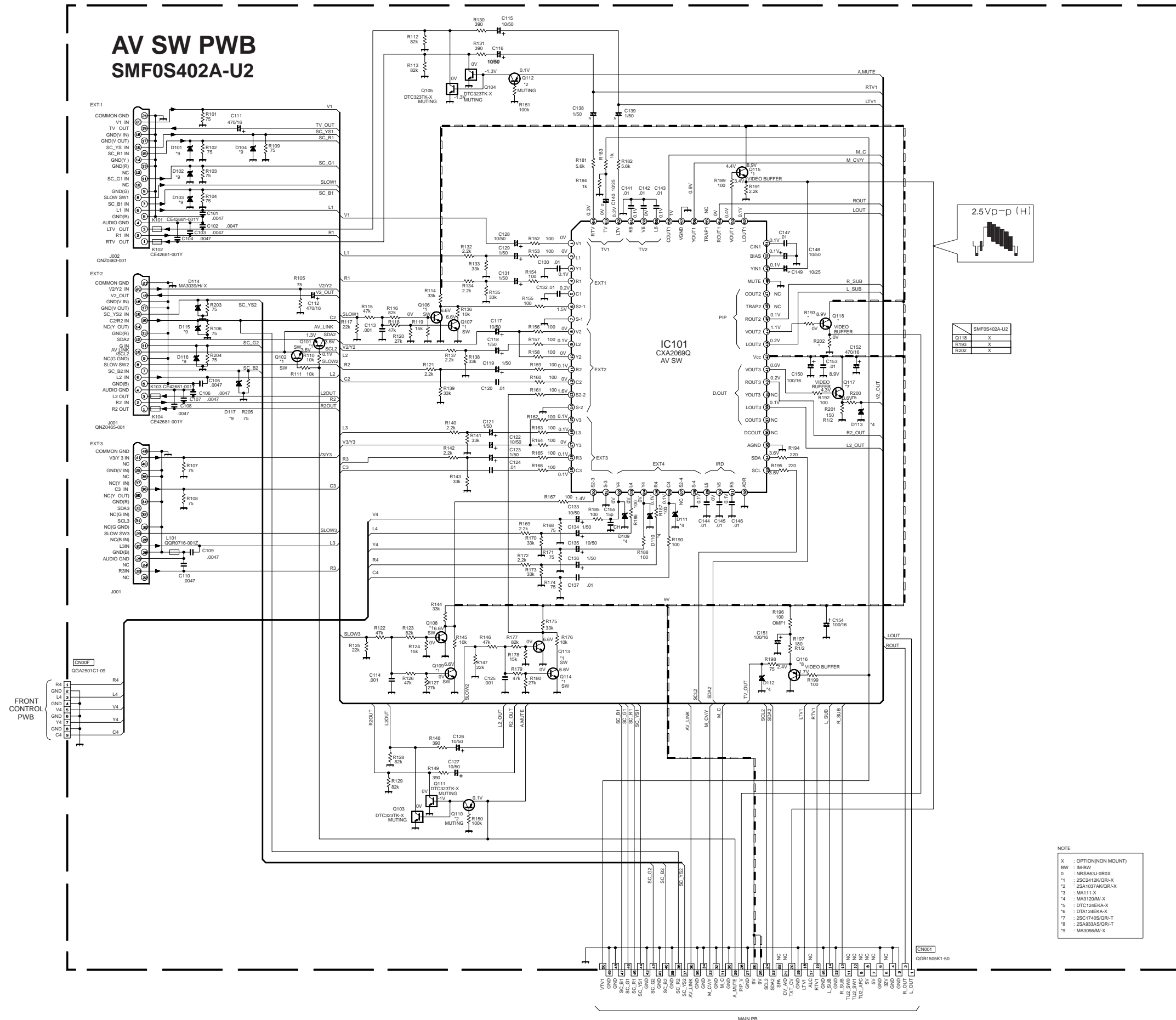
SMF-1943A-U2
(AV28X25EKG Y)



No.51994

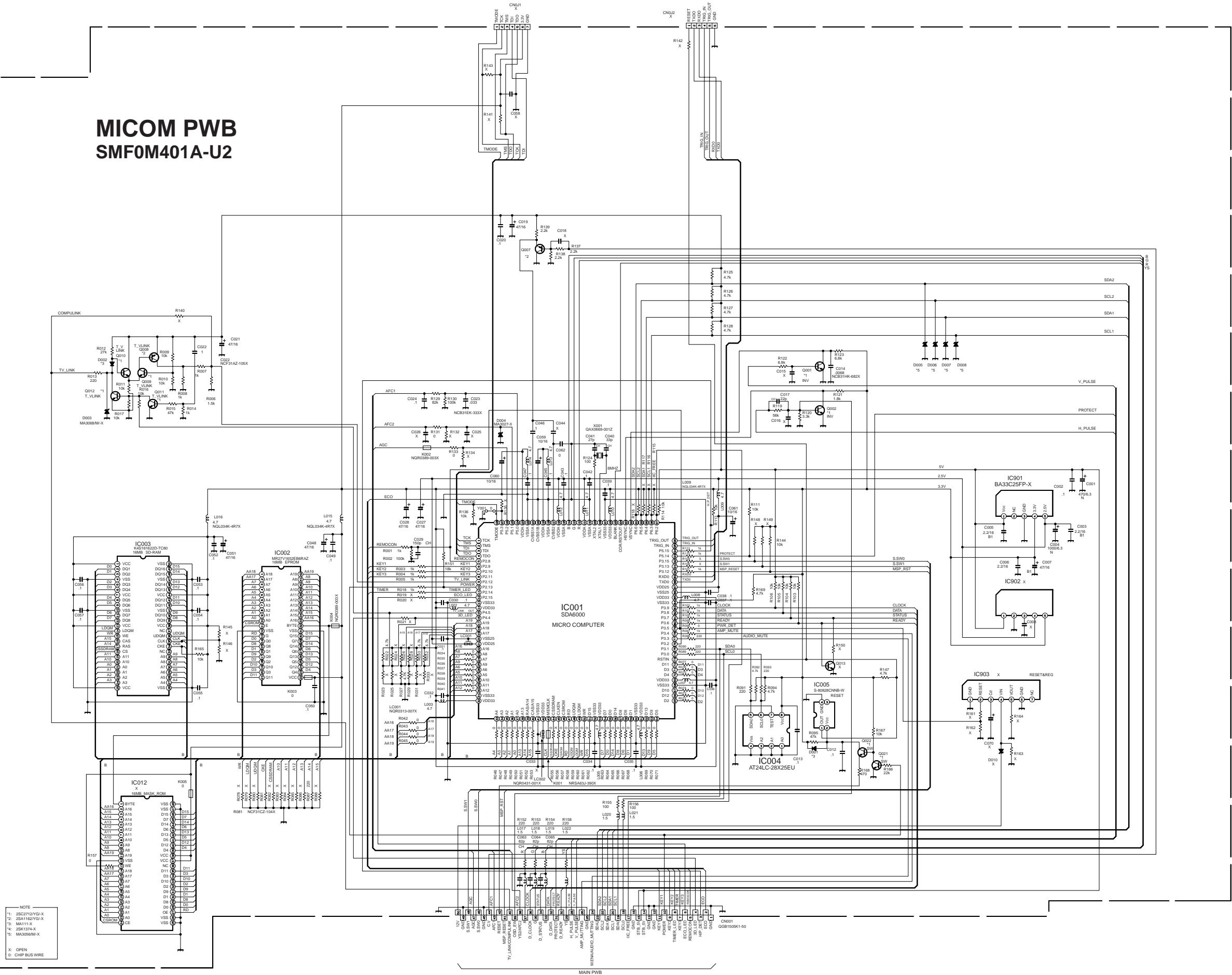


AV SW PWB
SMF0S402A-U2

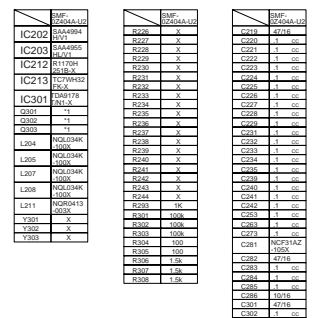


MICOM PWB CIRCUIT DIAGRAM

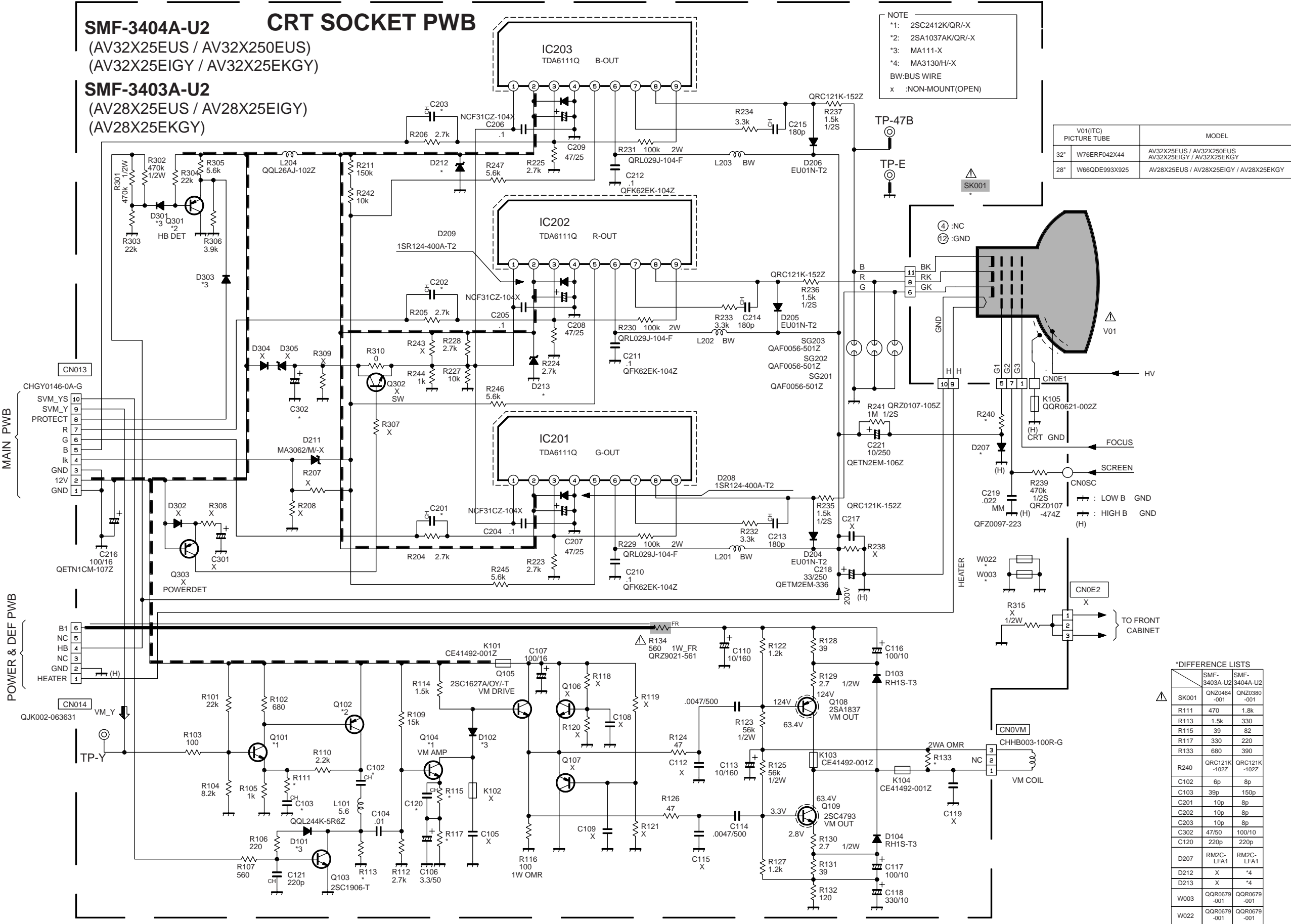
MICOM PWB
SMF0M401A-U2



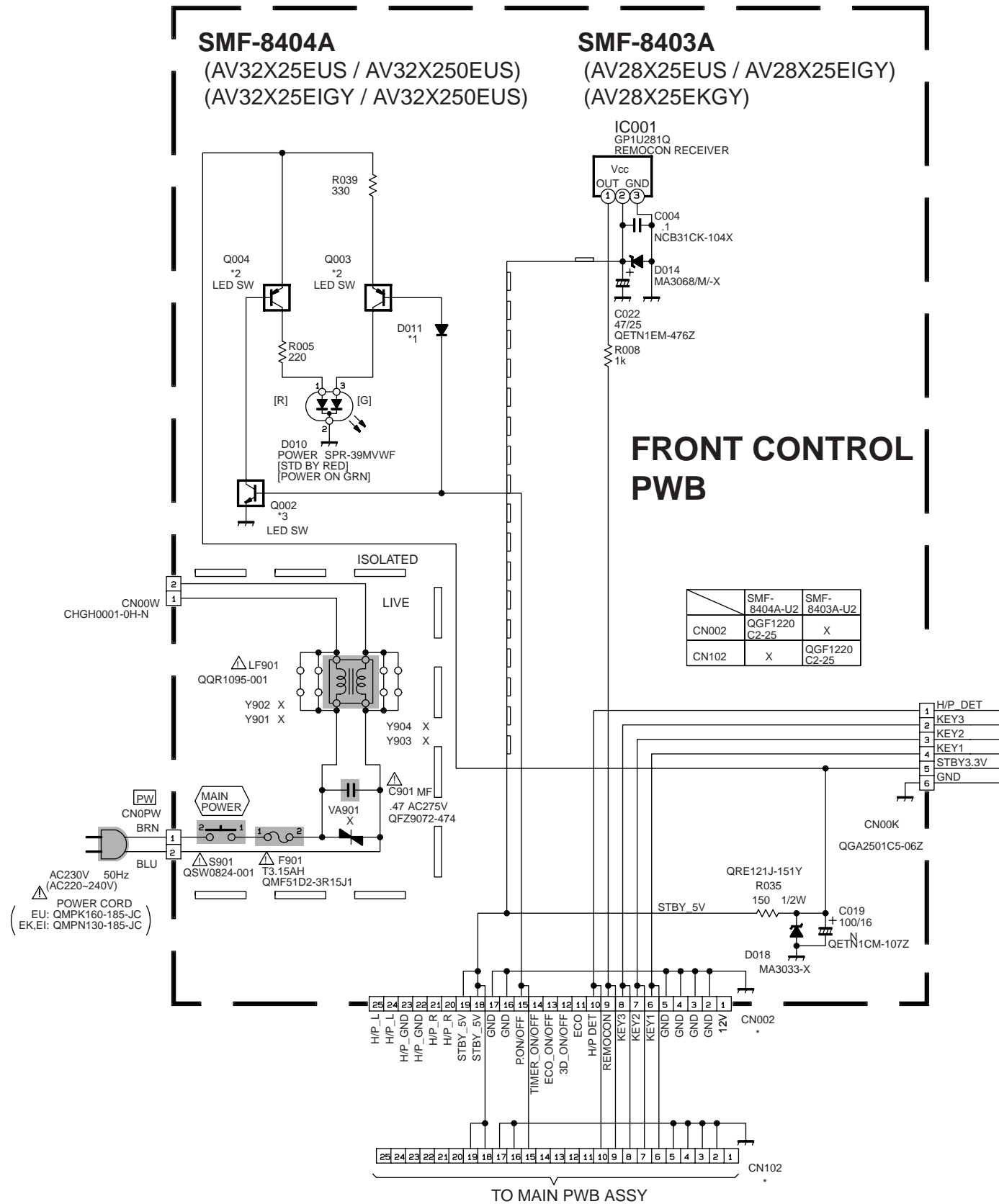
100Hz PWB
SMF0Z404A-U2



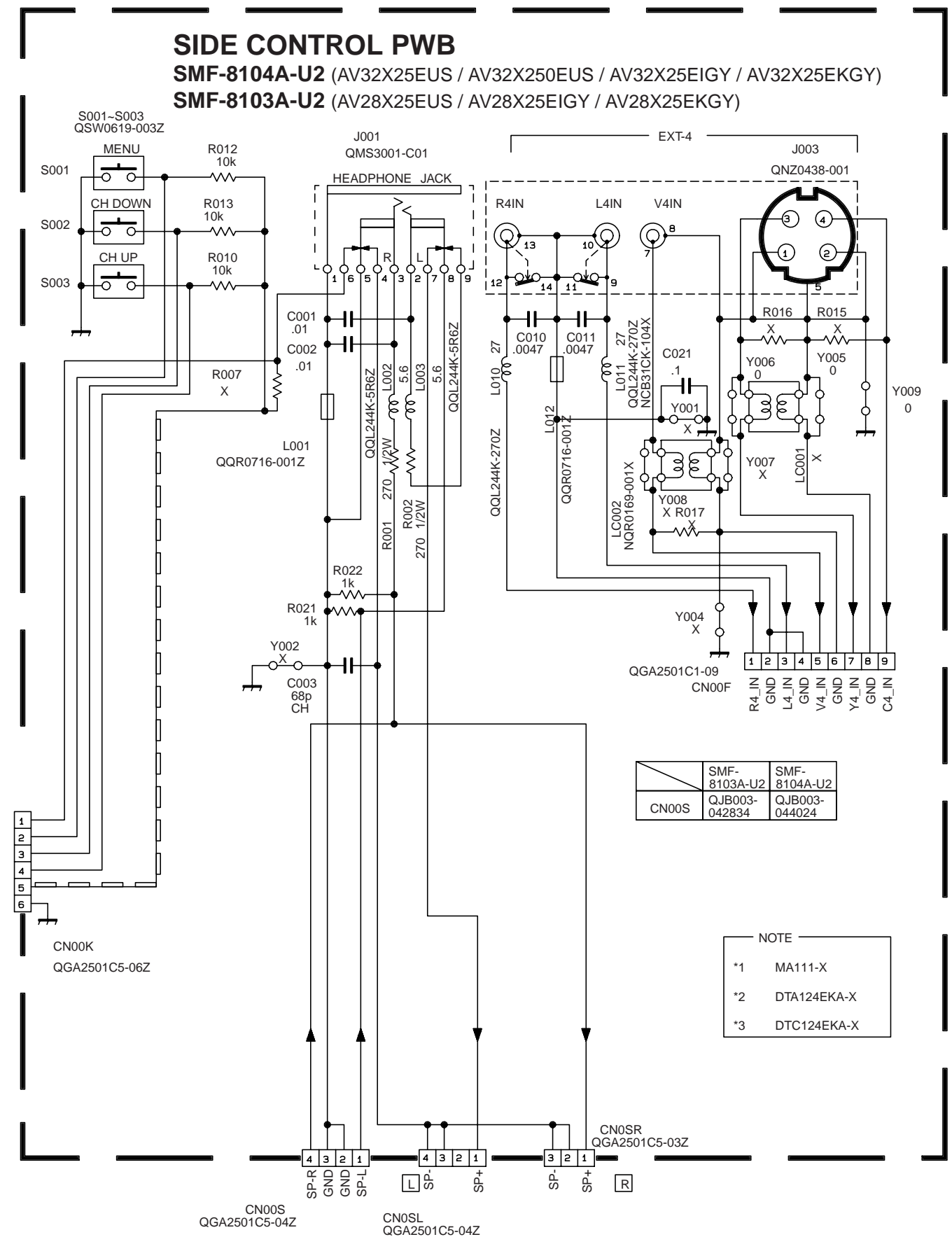
CRT SOCKET PWB CIRCUIT DIAGRAM



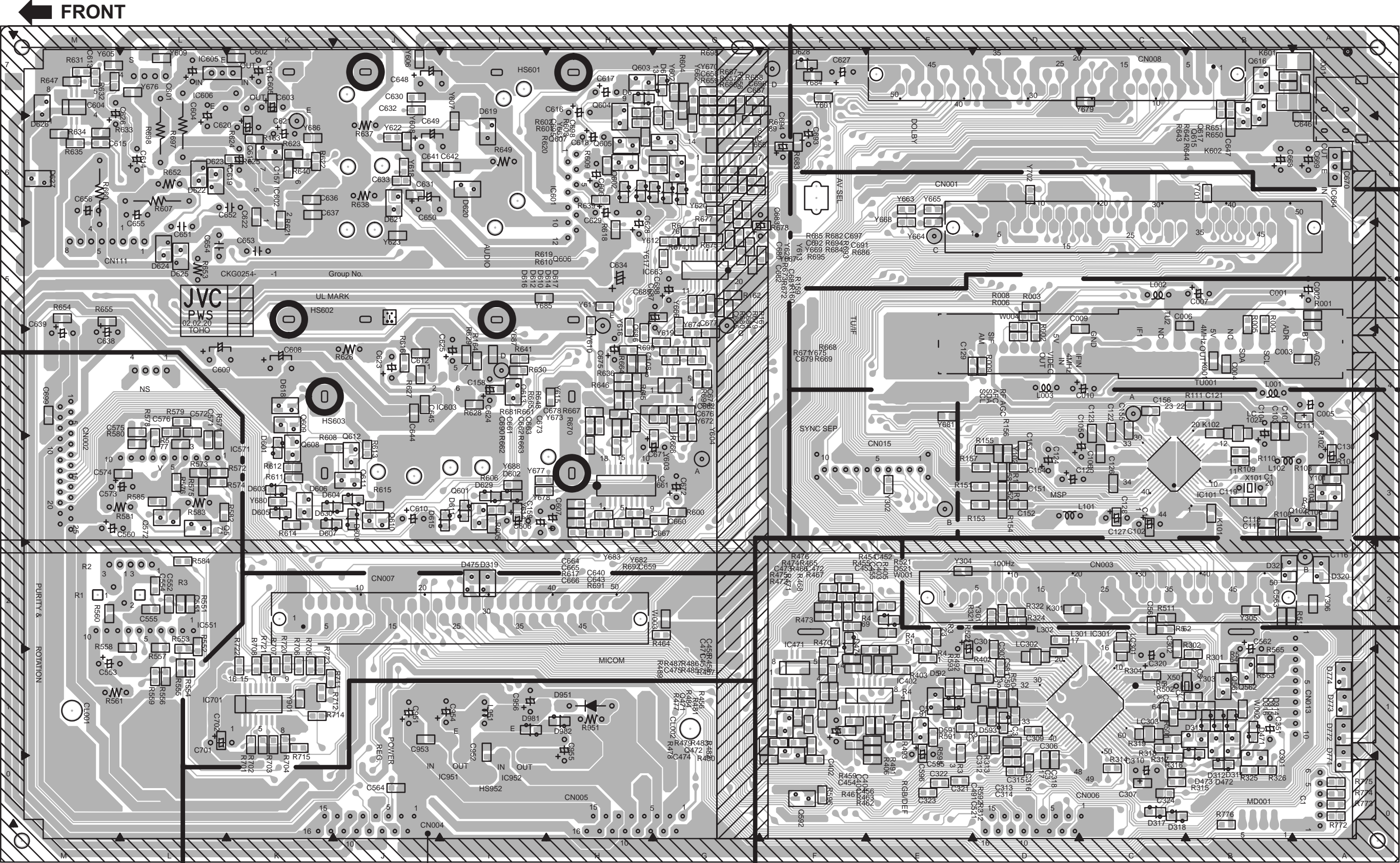
FRONT CONTROL PWB CIRCUIT DIAGRAM



SIDE CONTROL PWB CIRCUIT DIAGRAM



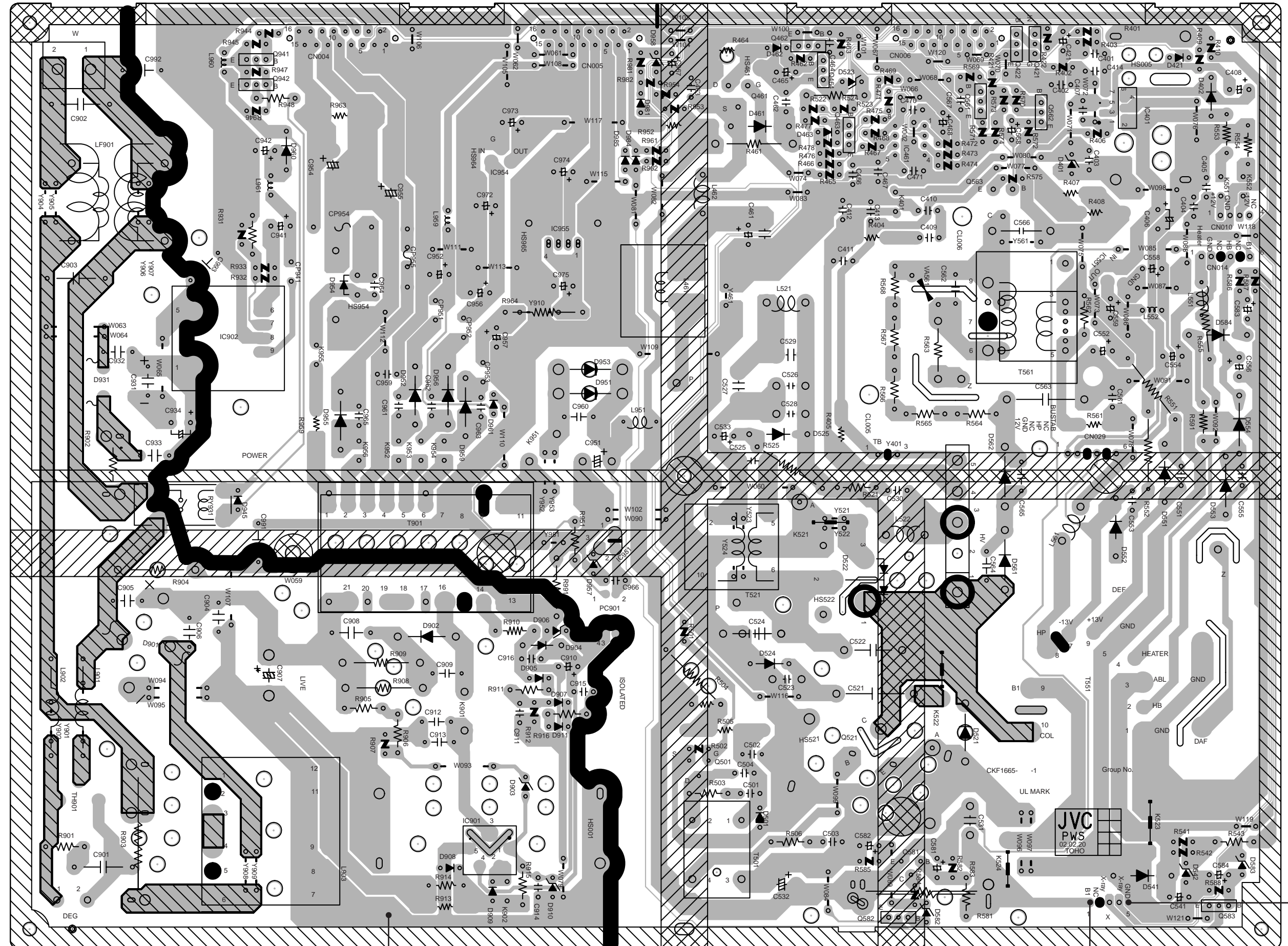
PATTERN DIAGRAMS MAIN PWB PATTERN



(π)

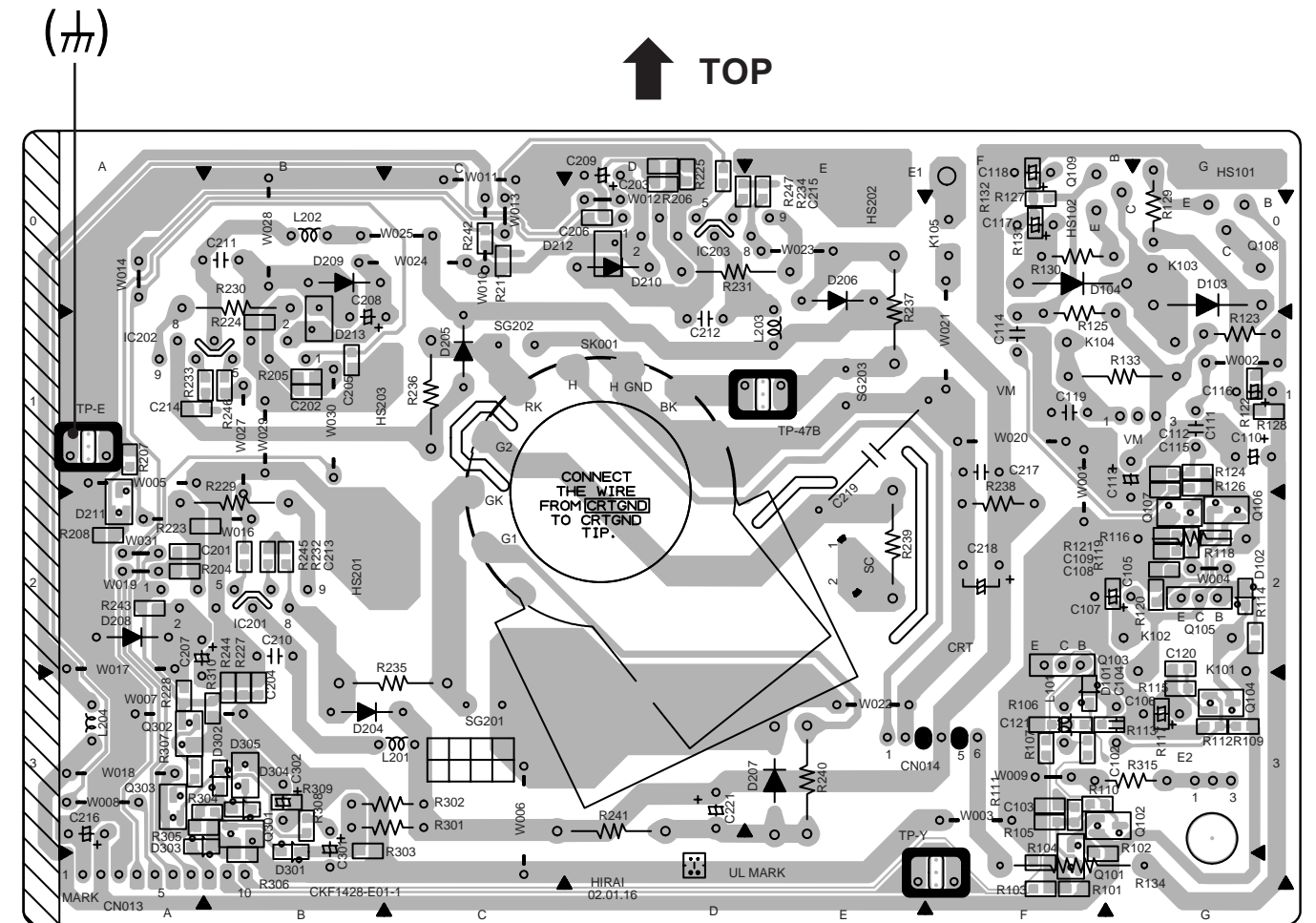
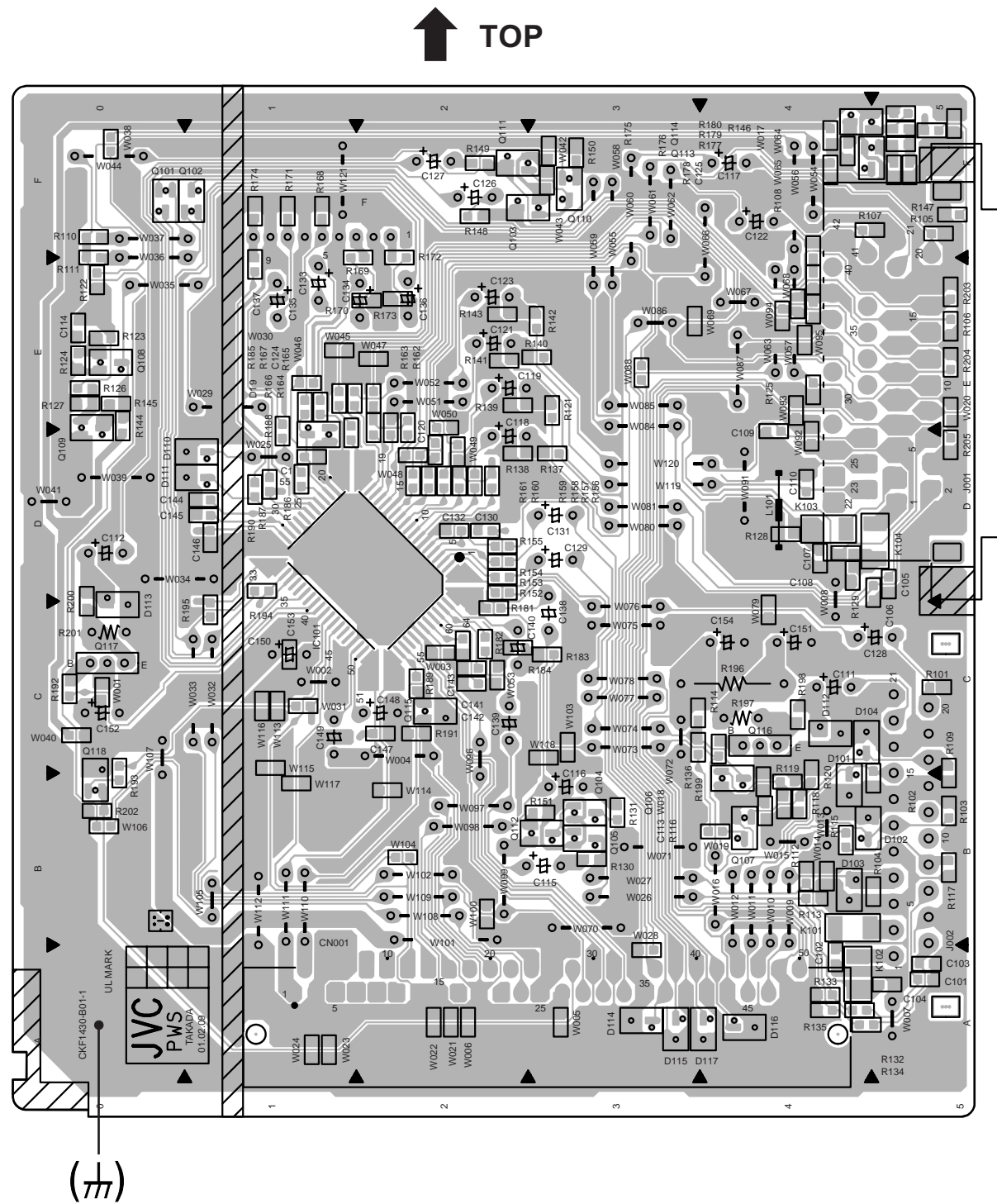
POWER & DEF PWB PATTERN

FRONT
↑

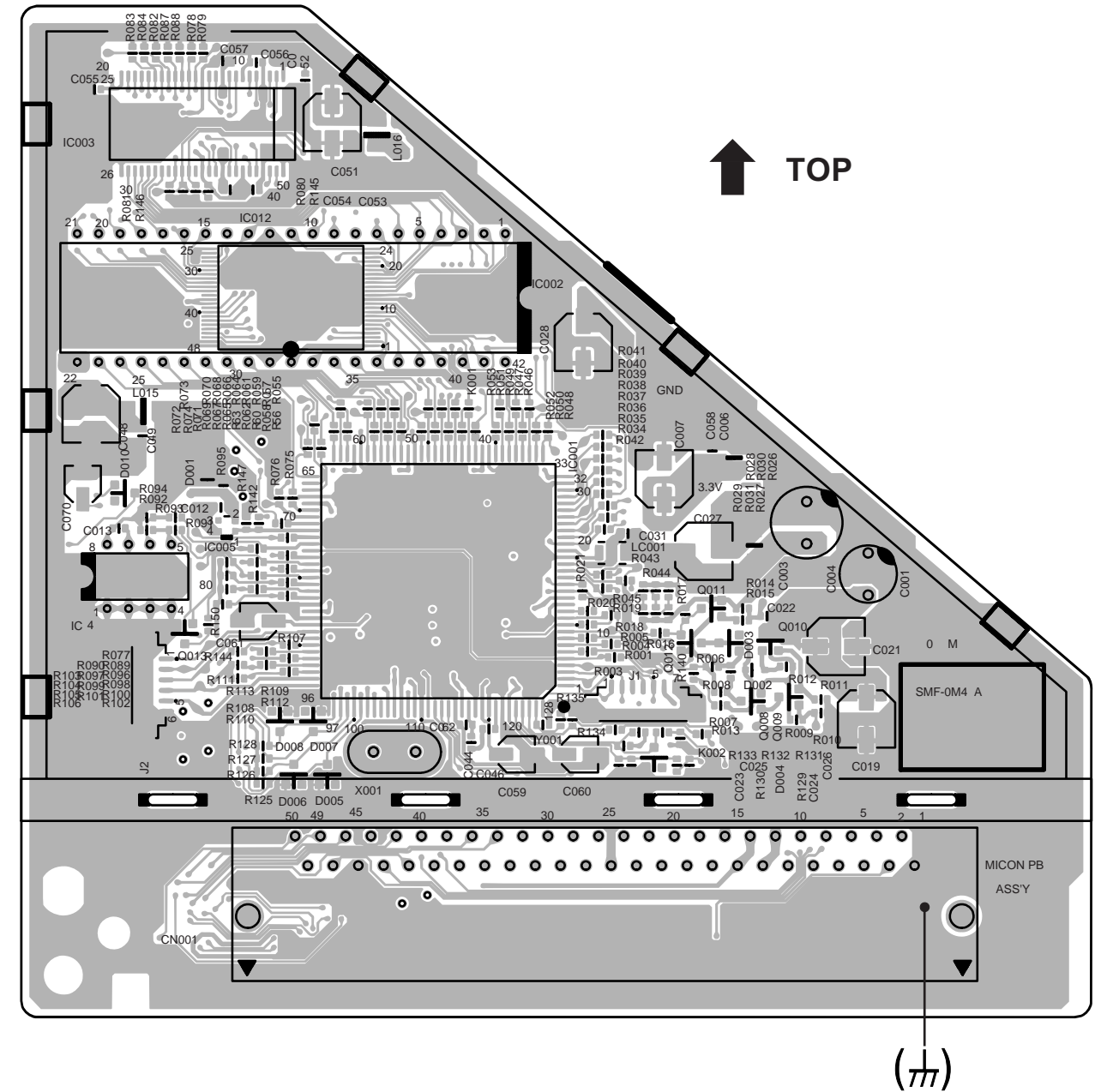
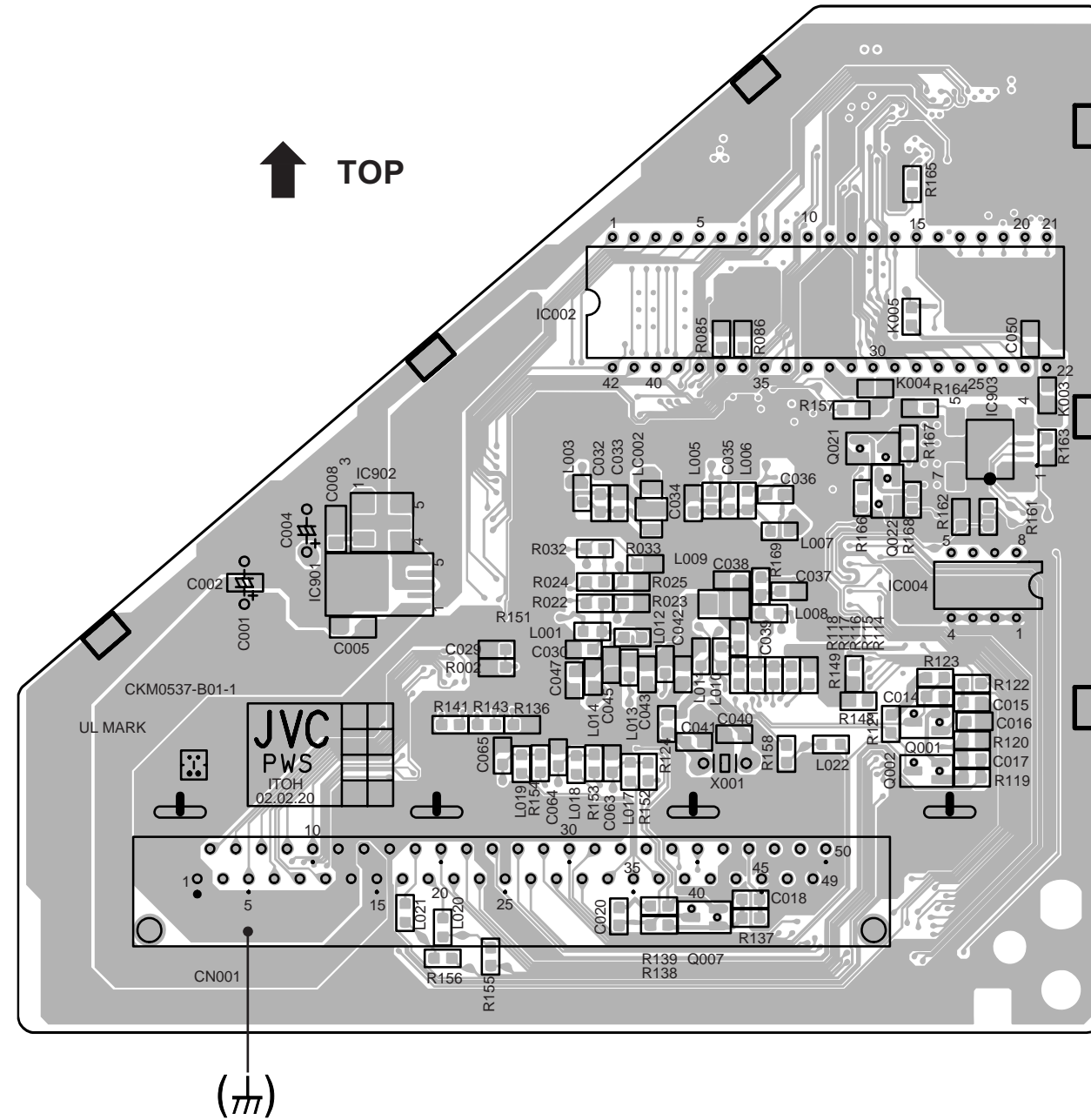


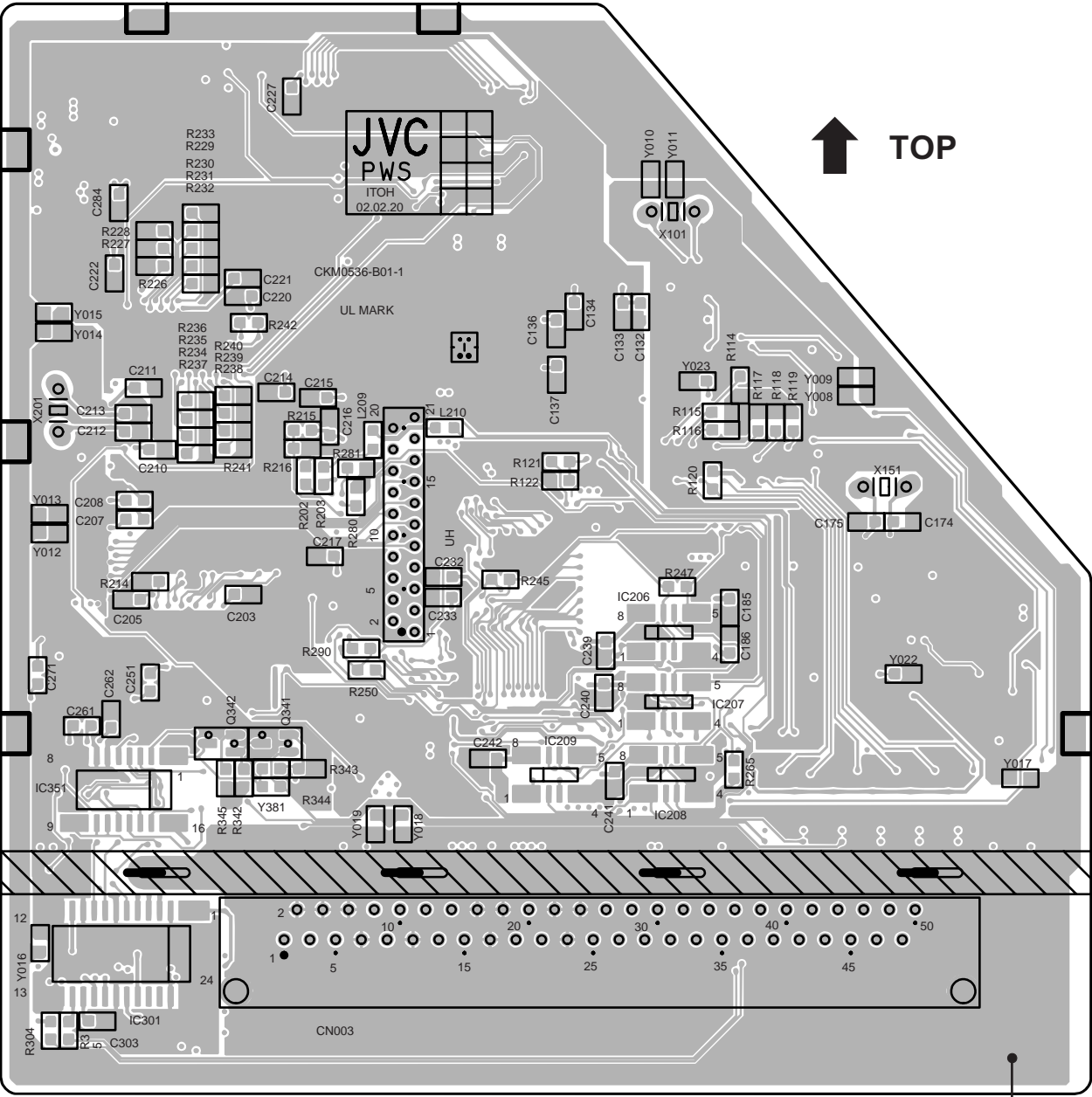
AV SW PWB PATTERN

CRT SOCKET PWB PATTERN

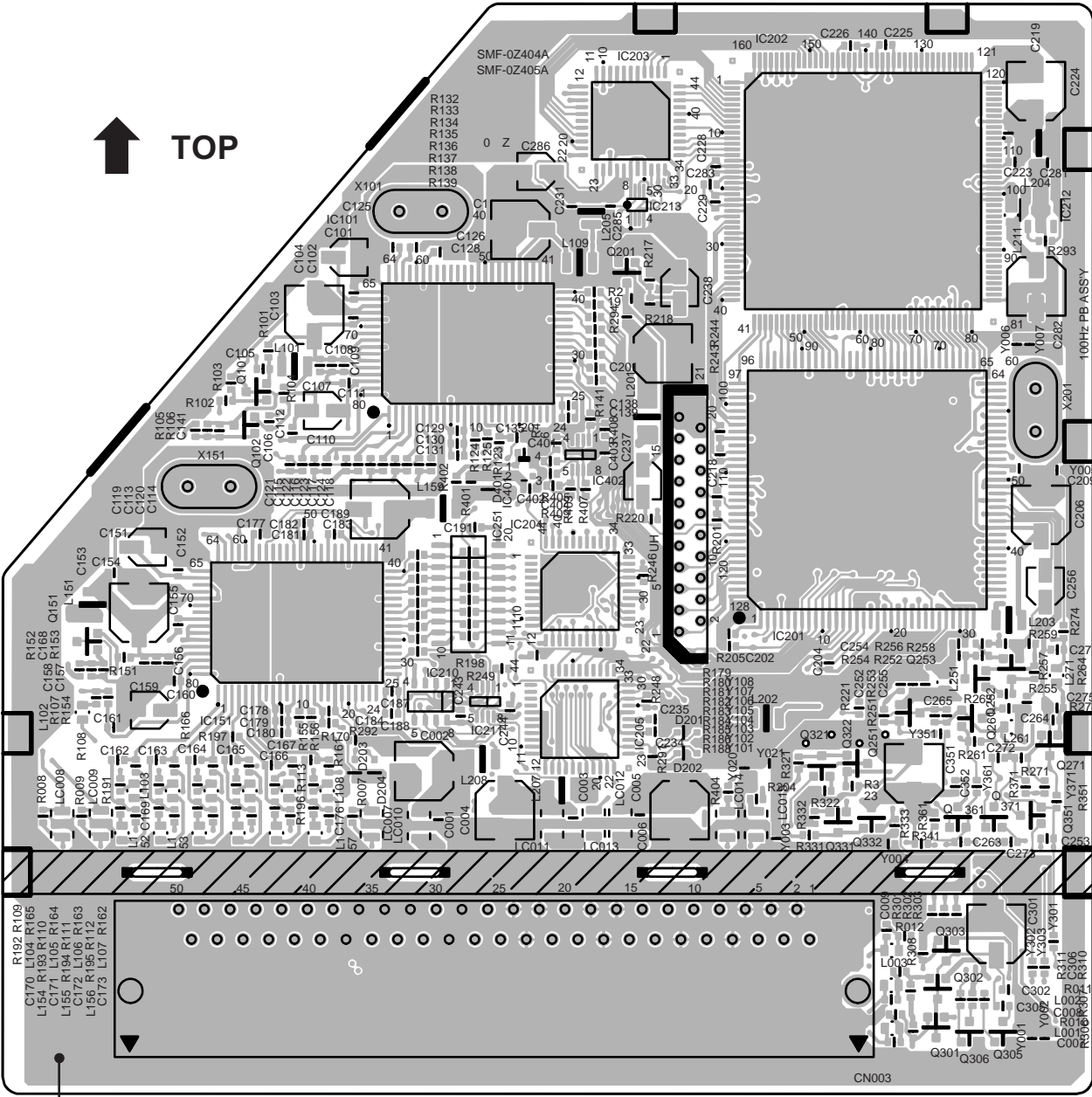


MICOM PWB PATTERN





(M)



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