JVC

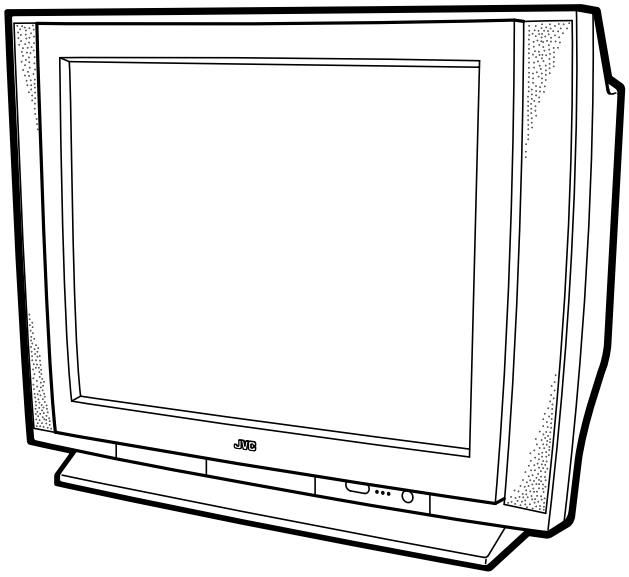
SCHEMATIC DIAGRAMS

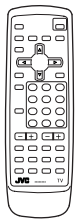
COLOR TELEVISION

HV-34LZ
HV-34LZ/HK
HV-34LZ/-A
HV-34LZ/EE

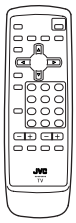
BASIC CHASSIS
MF

CD-ROM No.SML200209





[RM-C1030]
HV-34LZ
HV-34LZ/-A
HV-34LZ/EE



[RM-C1031]
HV-34LZ/HK

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No.52020
Sep. 2002

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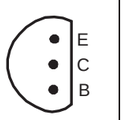
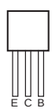
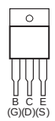
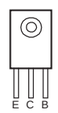
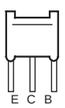
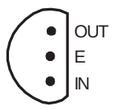
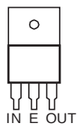
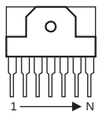
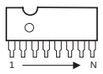
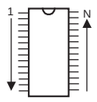
SEMICONDUCTOR SHAPES

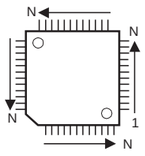
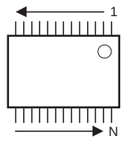
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR

IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

TOP VIEW		
		

HV-34LZ,HV-34LZ/HK,HV-34LZ/-A,HV-34LZ/EE 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	: Color 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

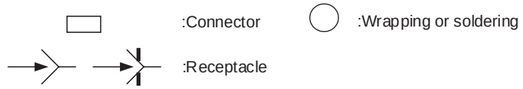
No unit	:[μH]
Others	:As specified

(4)Power Supply

∗Respective voltage values are indicated

(5)Test point

(6)Connecting method



(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.

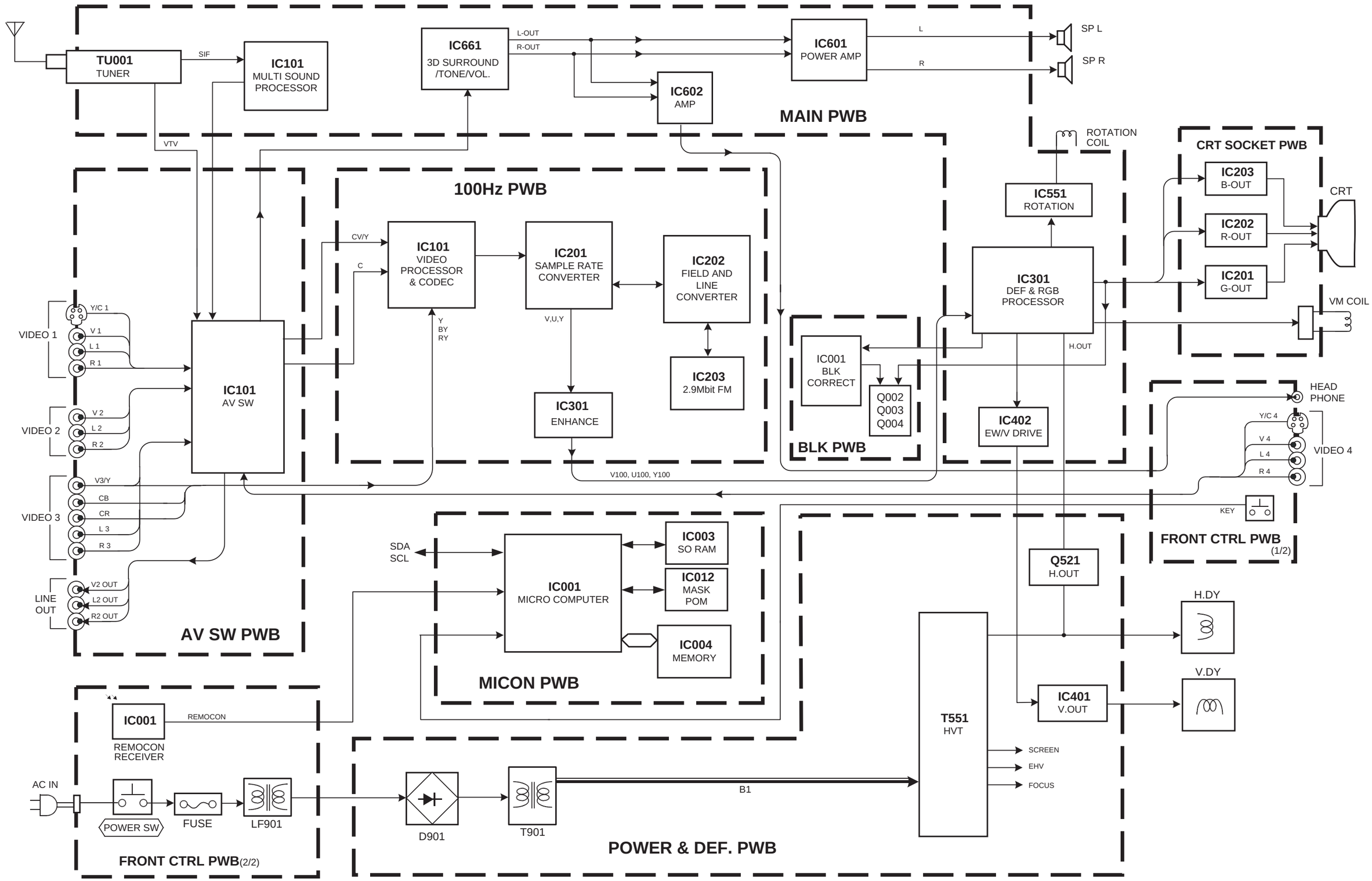
(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts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

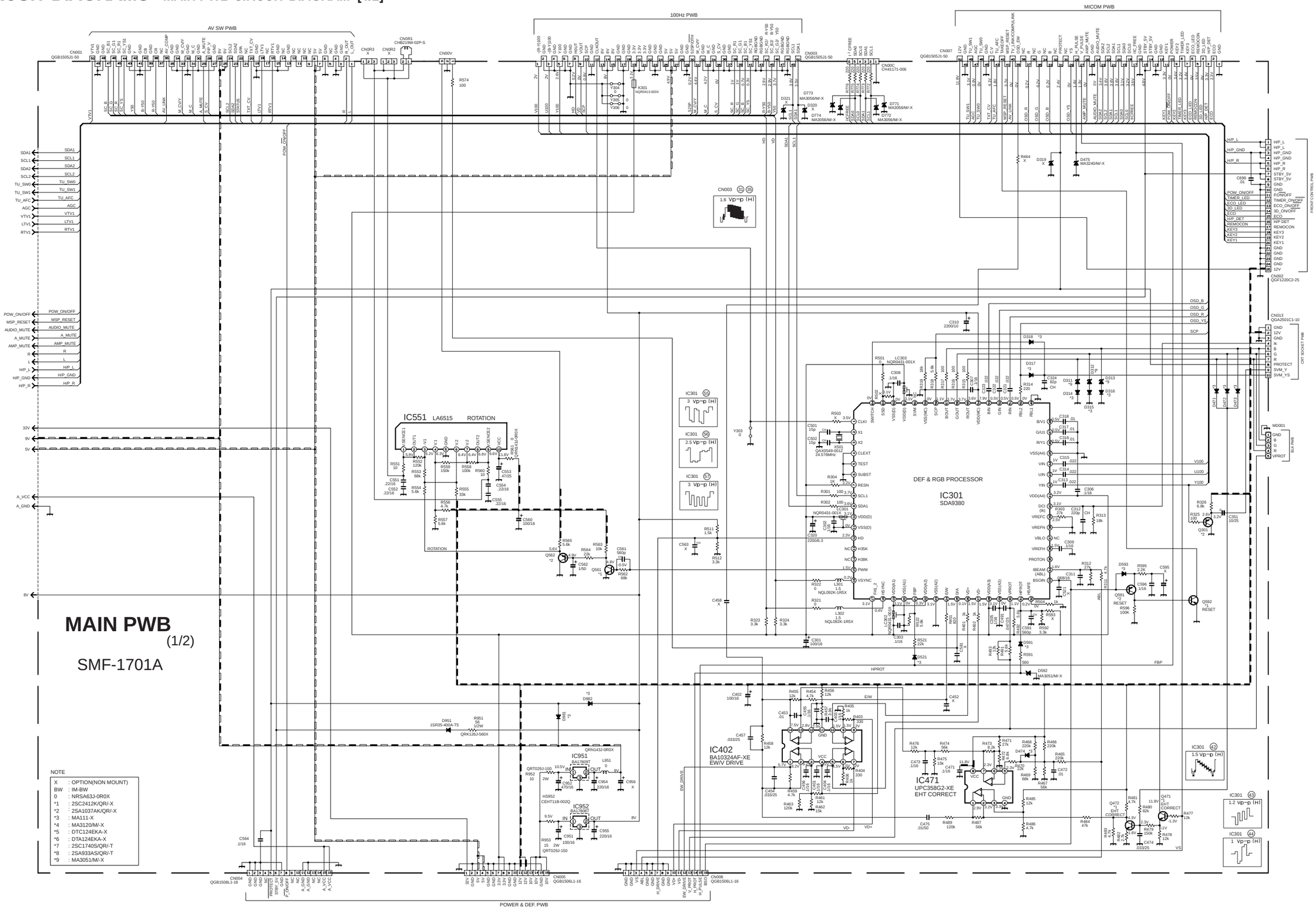
NOTE

◇ **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.

BLOCK DIAGRAM



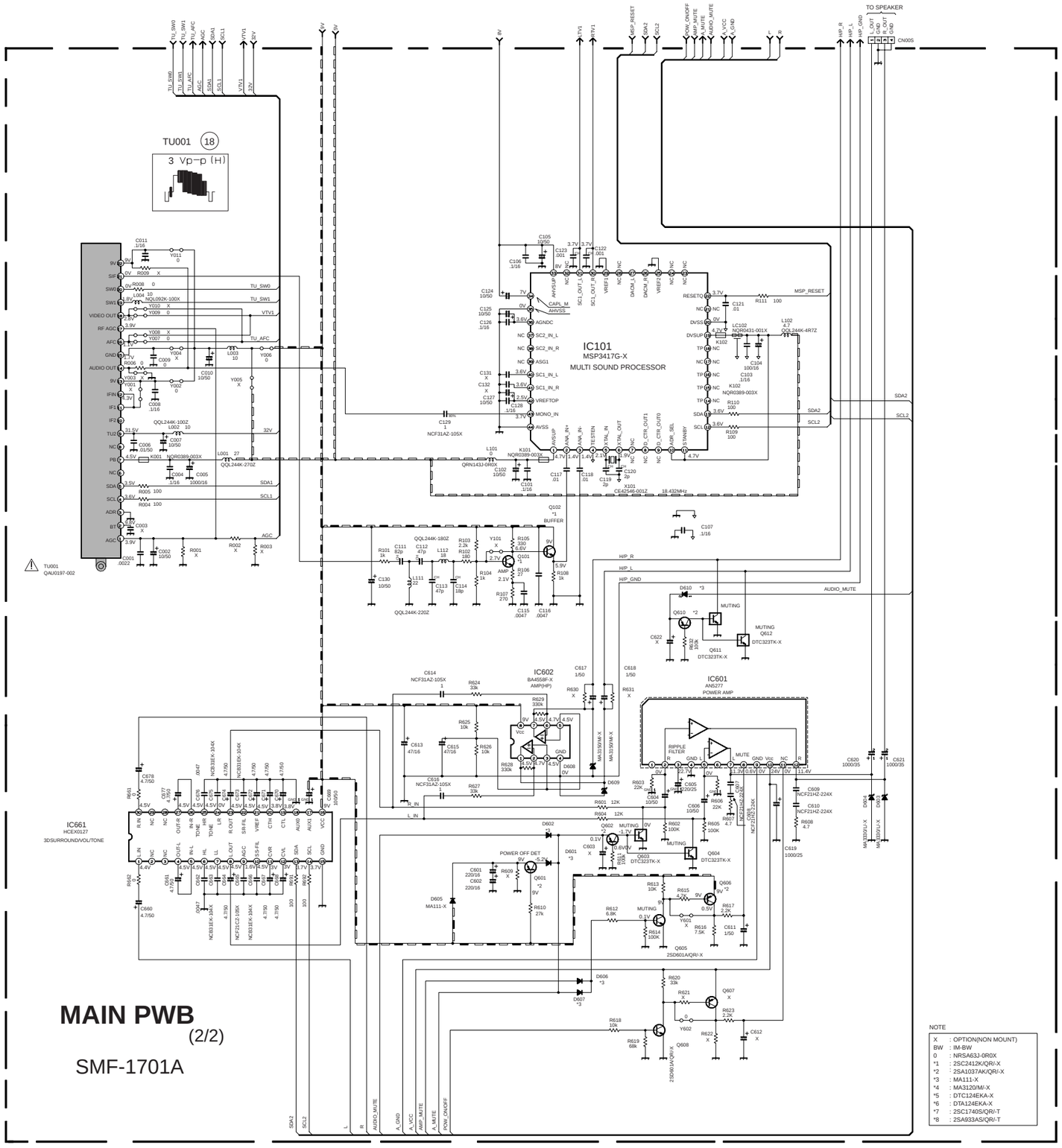
CIRCUIT DIAGRAMS *MAIN PWB CIRCUIT DIAGRAM* [1/2]



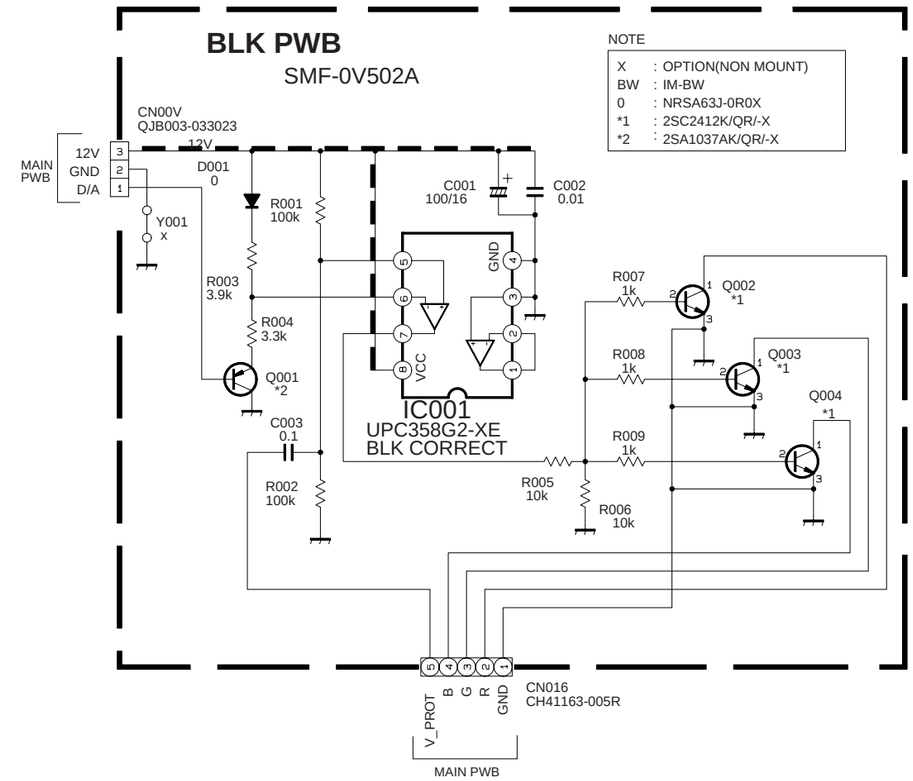
NOTE

X	:	OPTION(NON MOUNT)
BW	:	IM-BW
0	:	NRSA63J-0R0X
*1	:	2SC2412K/QR/-X
*2	:	2SA1037AK/QR/-X
*3	:	MA111-X
*4	:	MA3120/M/-X
*5	:	DTC124EKA-X
*6	:	DTA124EKA-X
*7	:	2SC1740S/QR/-T
*8	:	2SA933AS/QR/-T
*9	:	MA3051/M/-X

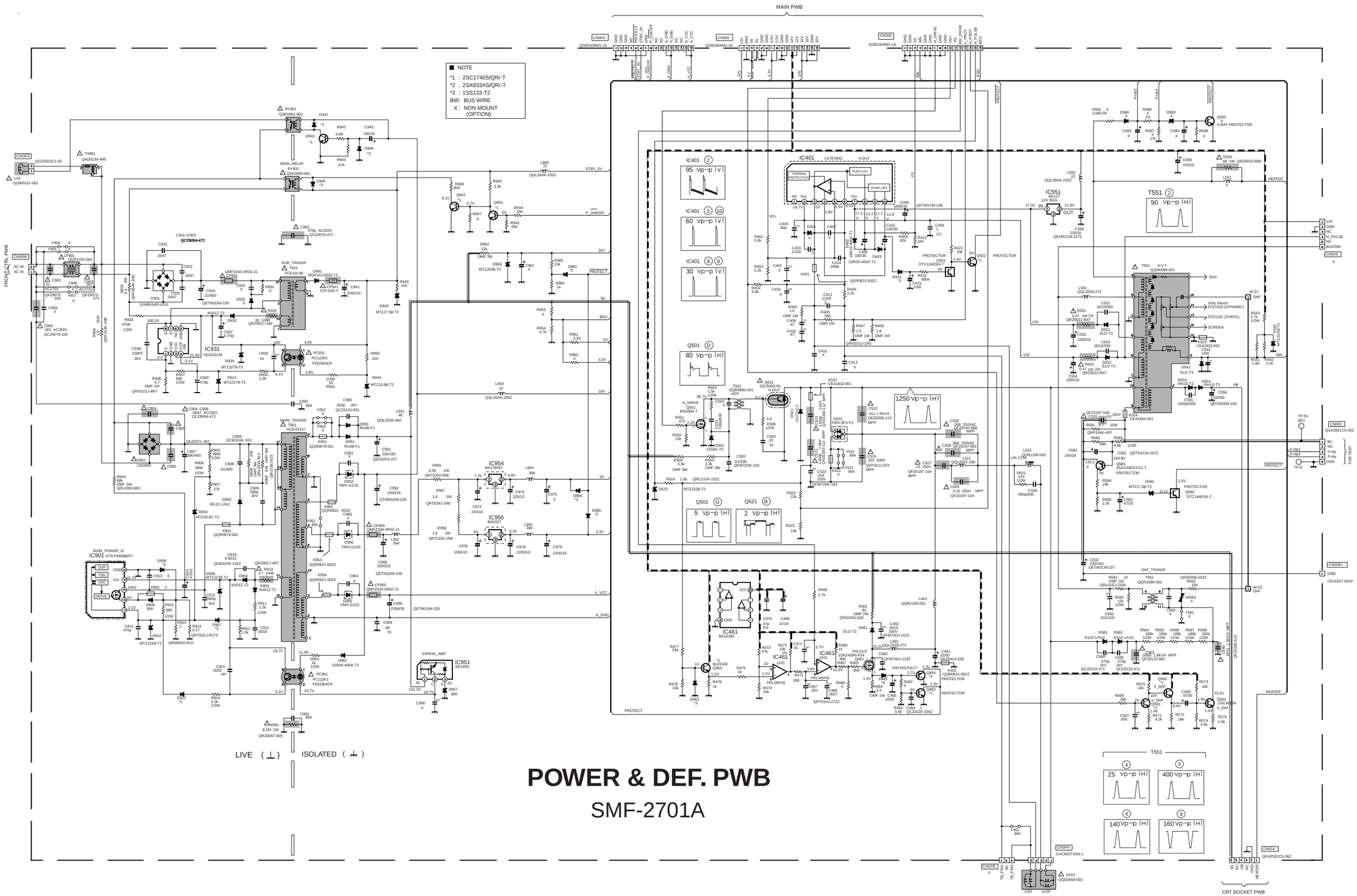
MAIN PWB CIRCUIT DIAGRAM [2/2]



BLK PWB CIRCUIT DIAGRAM



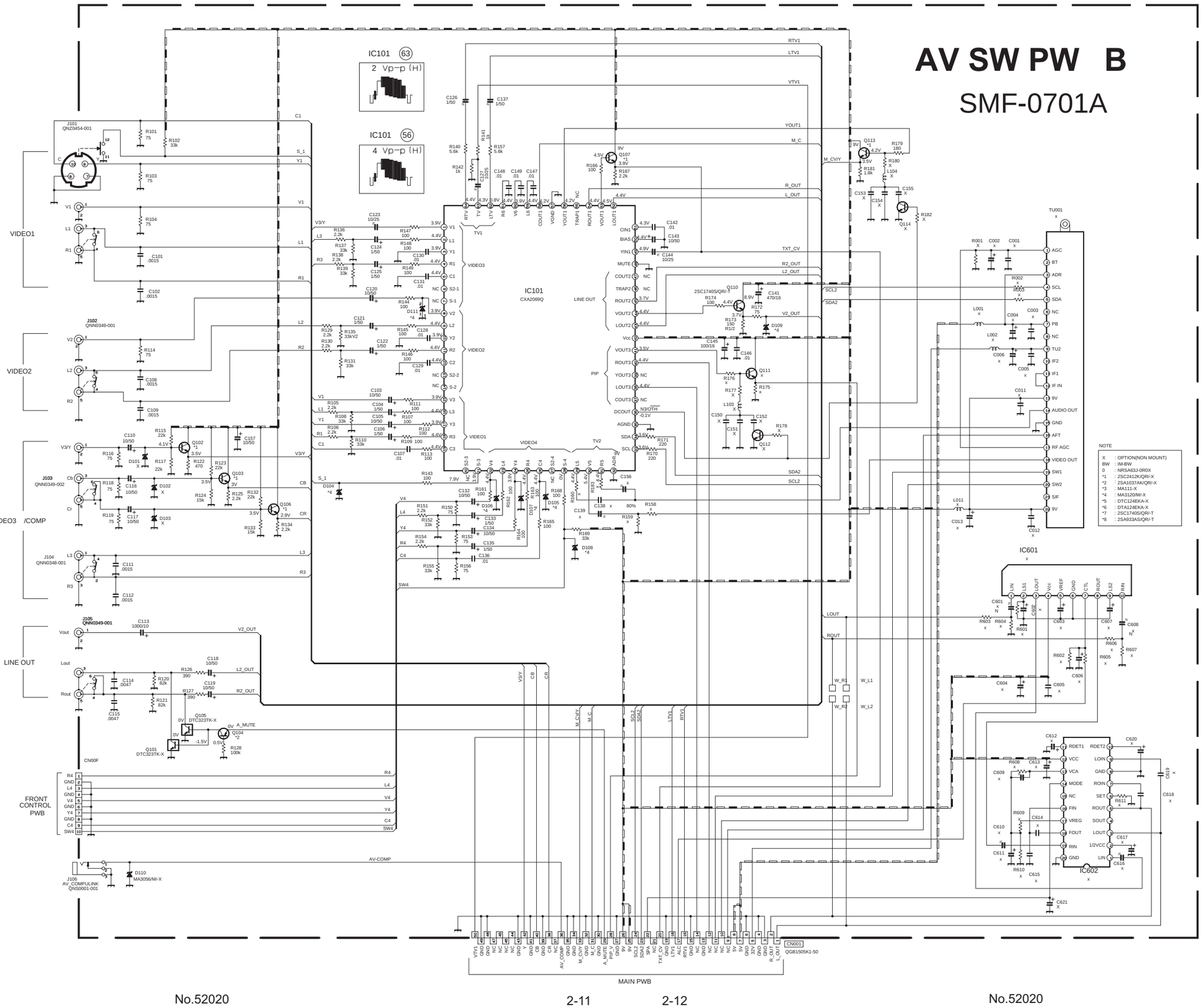
POWER & DEF. PWB CIRCUIT DIAGRAM



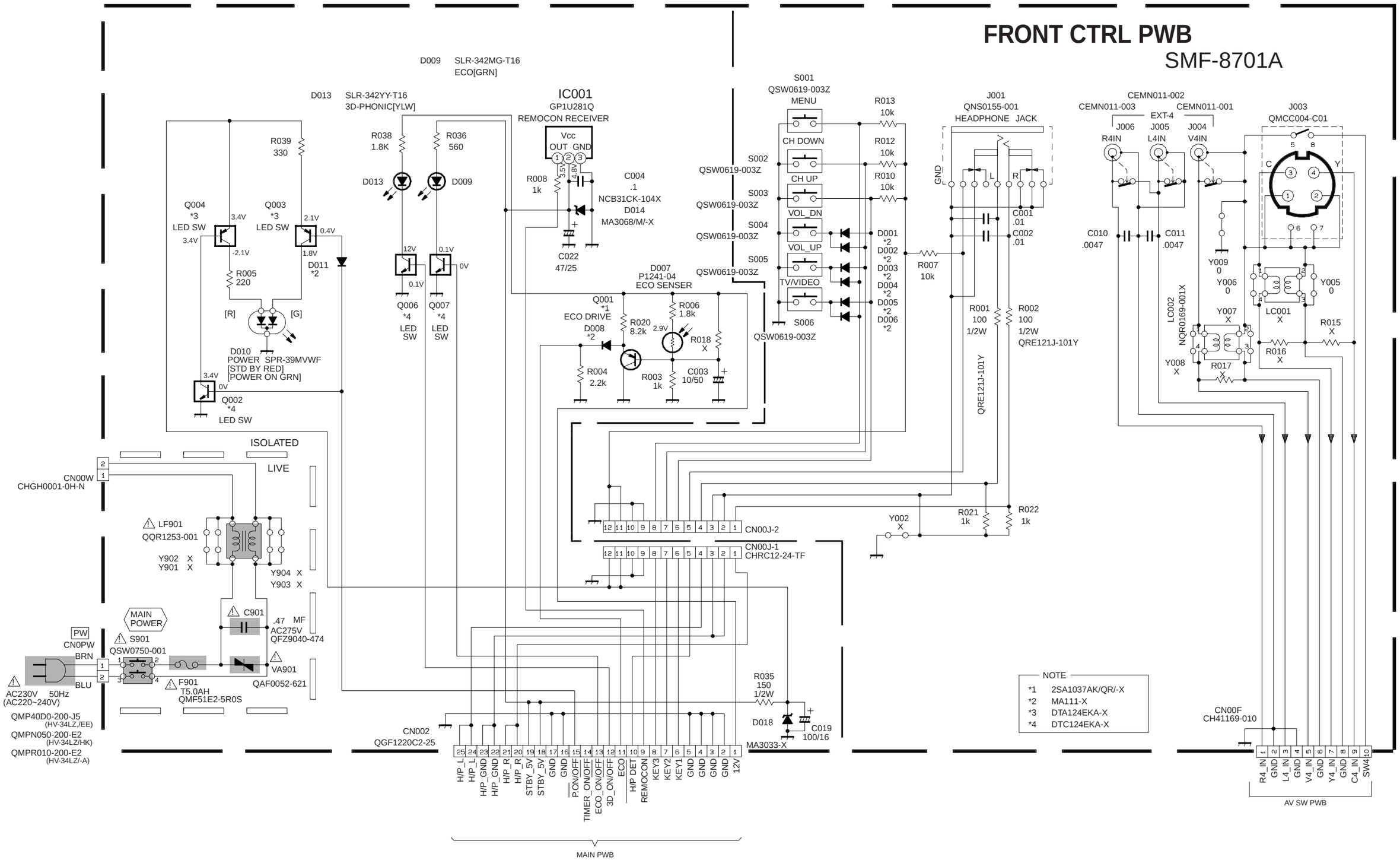
POWER & DEF. PWB

SMF-2701A

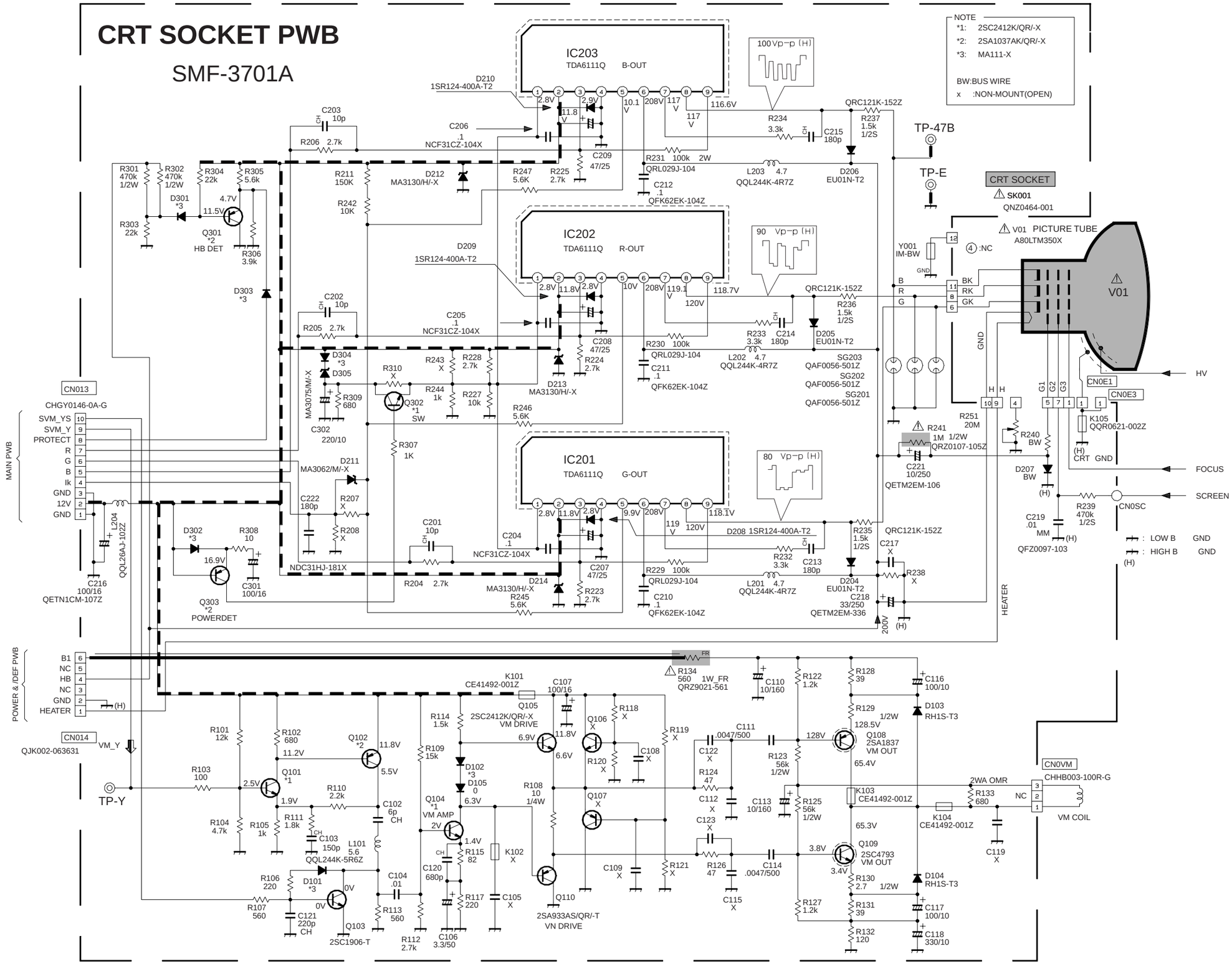
AV SW PWB CIRCUIT DIAGRAM



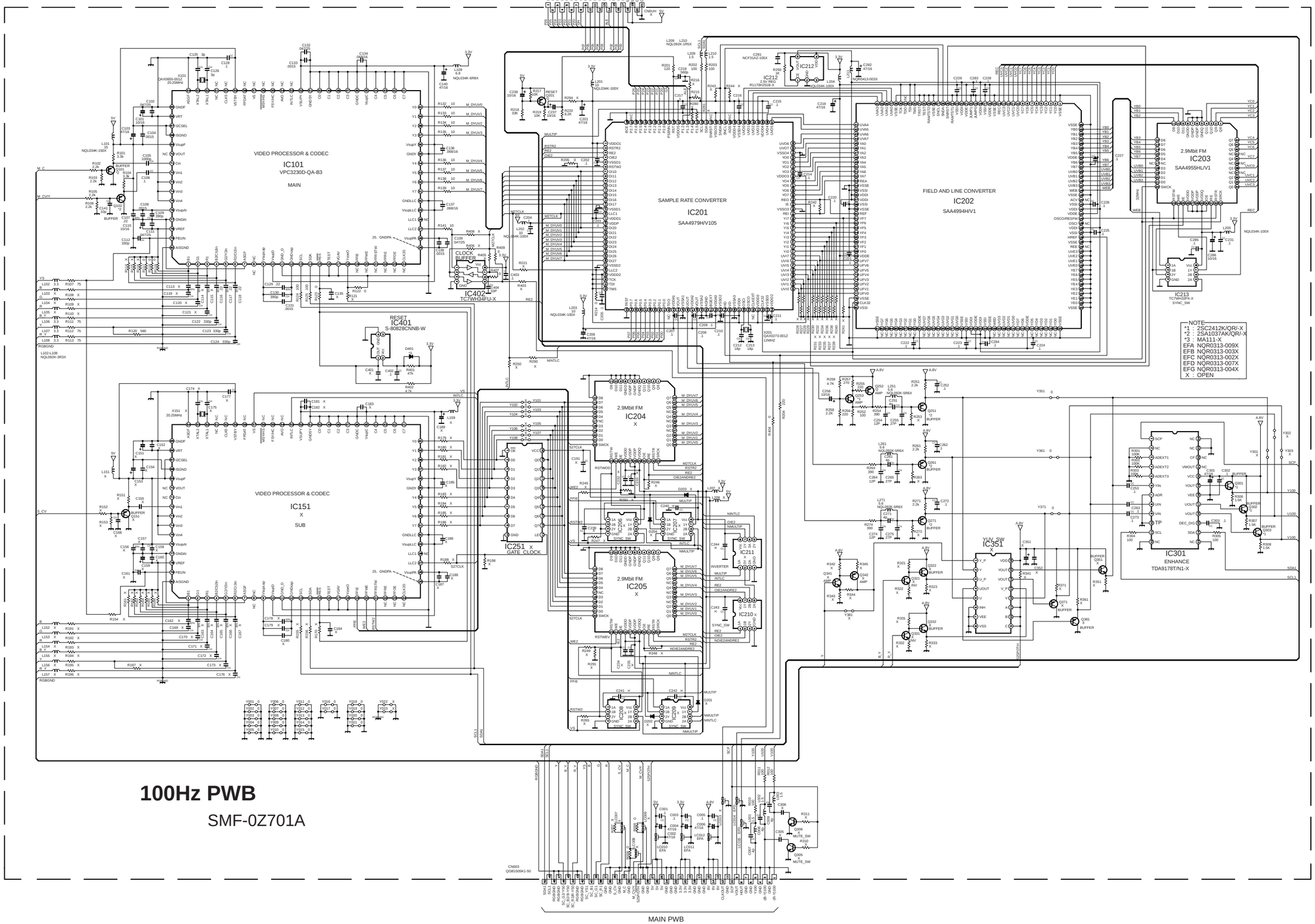
FRONT CONTROL PWB CIRCUIT DIAGRAM



CRT SOCKET PWB CIRCUIT DIAGRAM



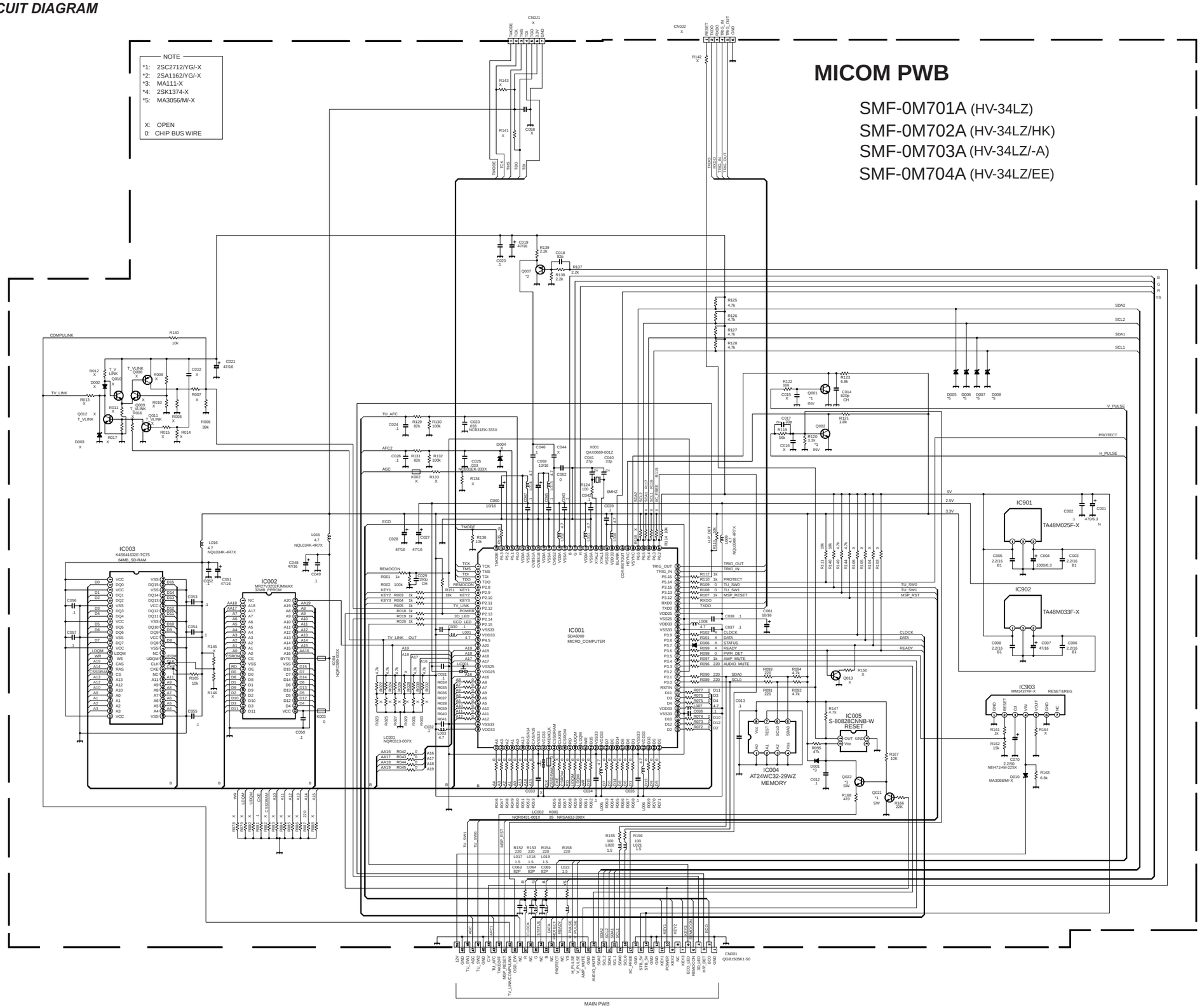
100Hz PWB CIRCUIT DIAGRAM



100Hz PWB

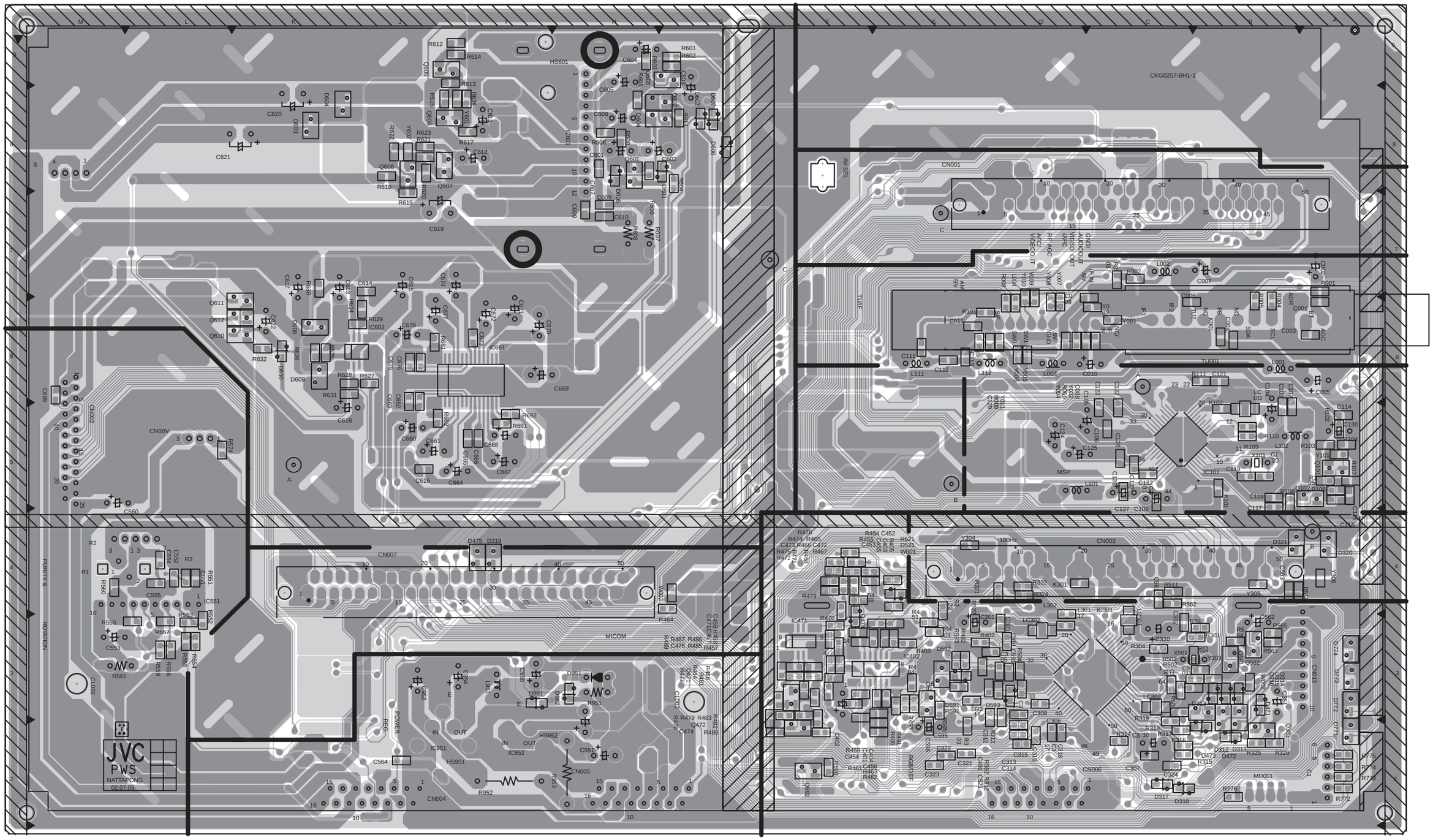
SMF-0Z701A

MICOM PWB CIRCUIT DIAGRAM



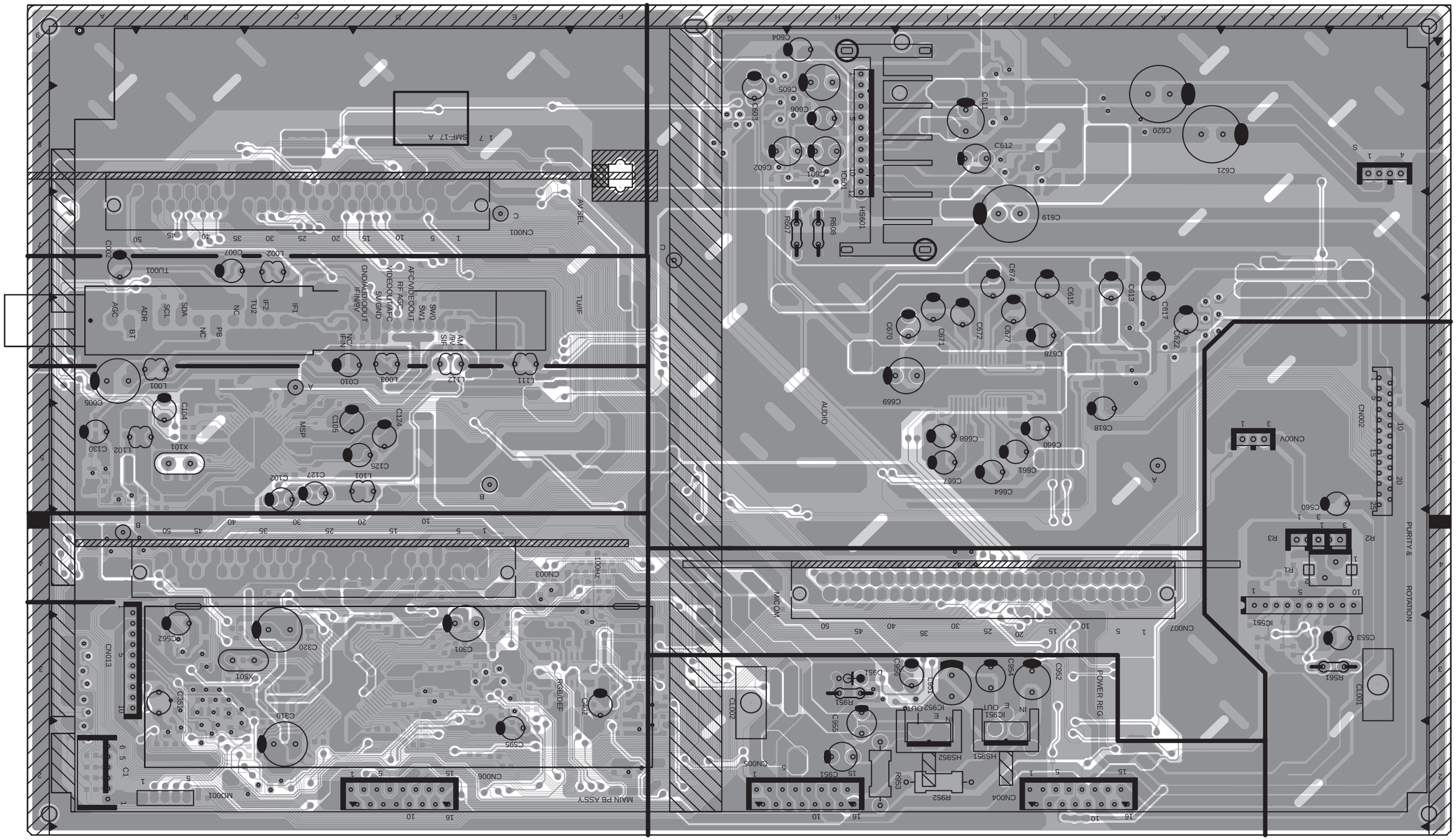
PATTERN DIAGRAMS *MAIN PWB PATTERN* (SOLDER SIDE)

FRONT

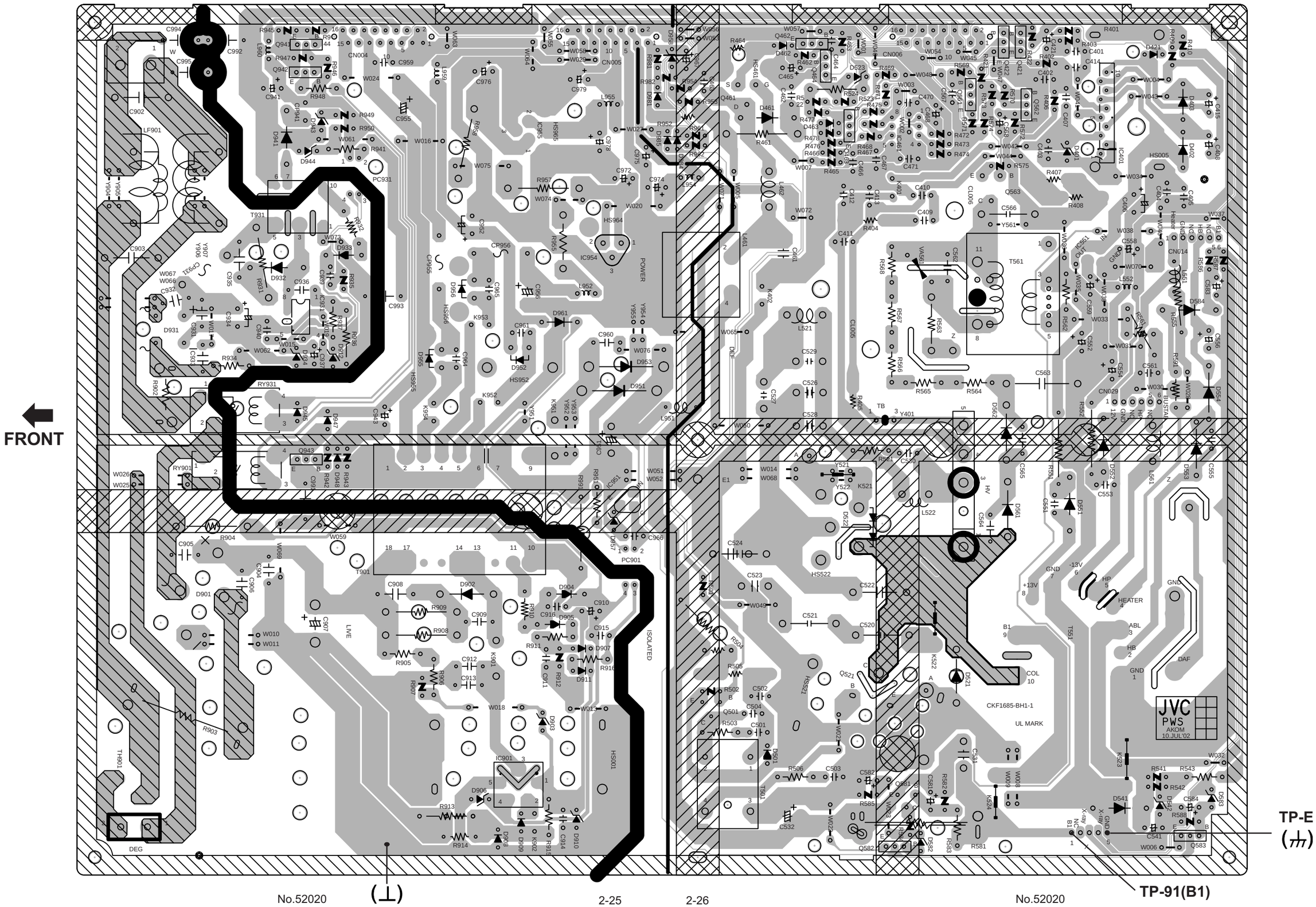


MAIN PWB PATTERN (PARTS SIDE)

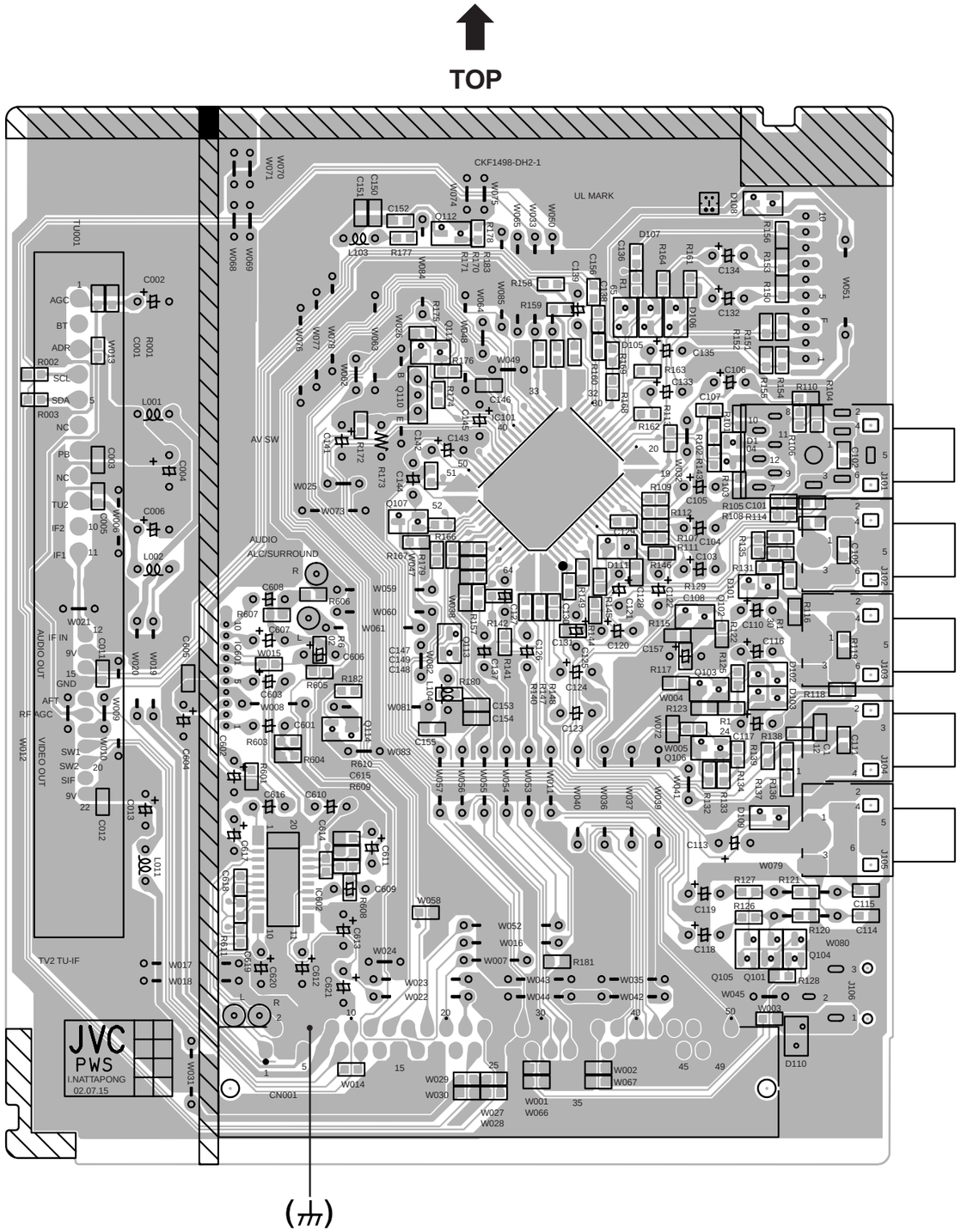
FRONT



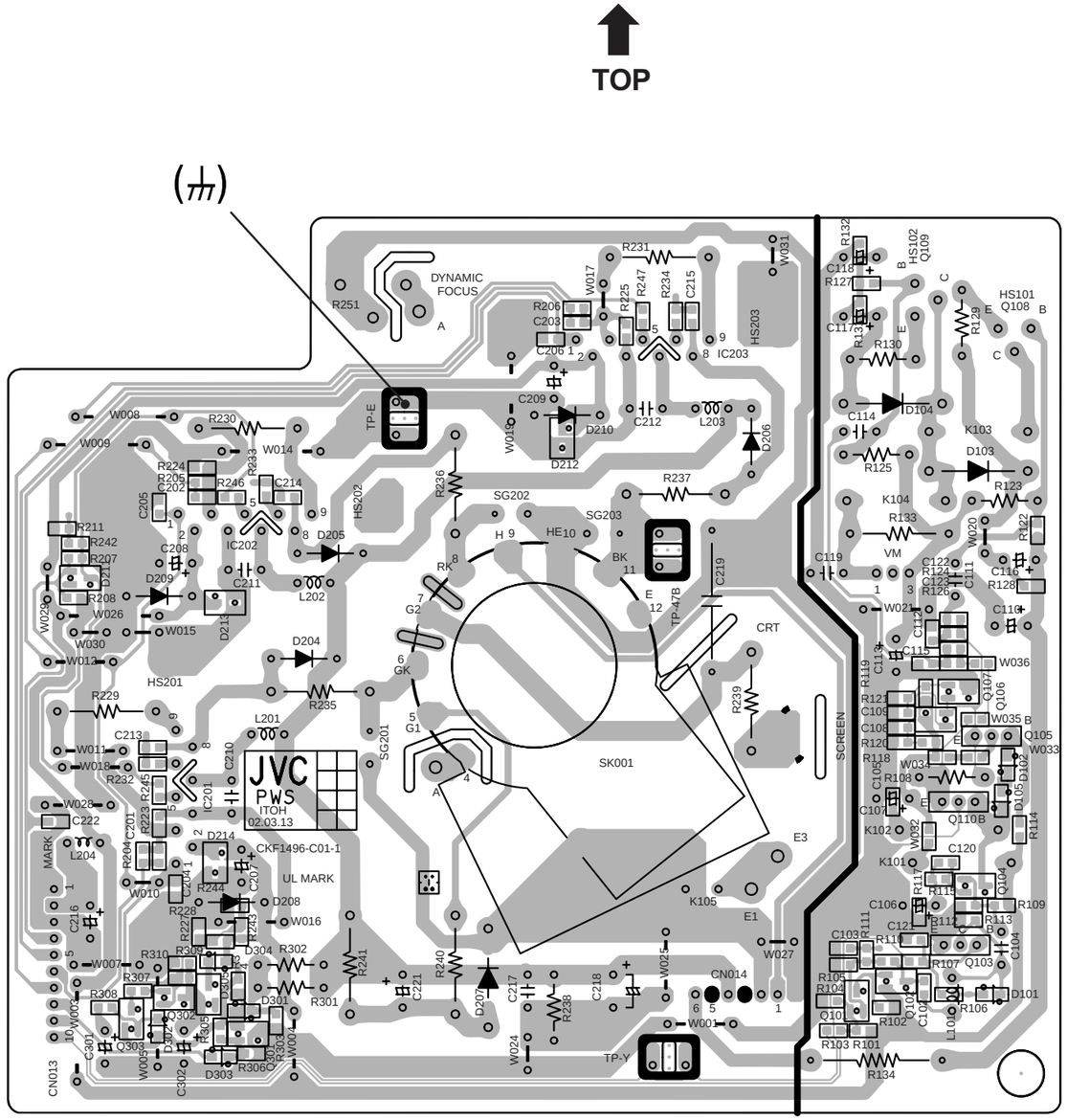
POWER & DEF. PWB PATTERN



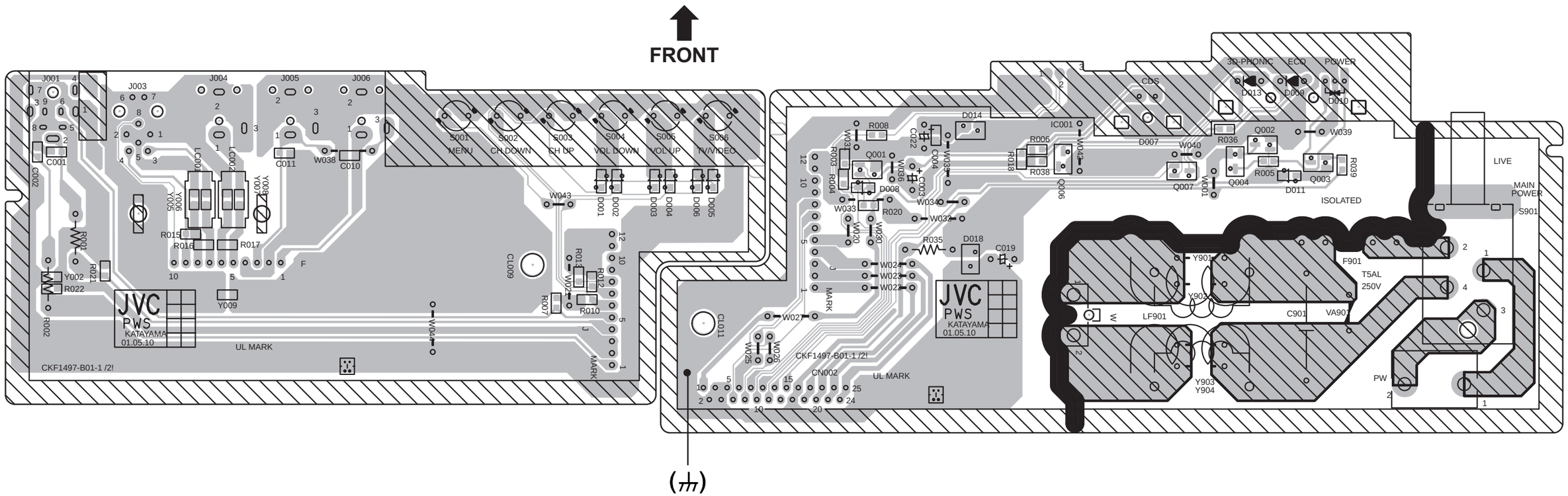
AV SW PWB PATTERN



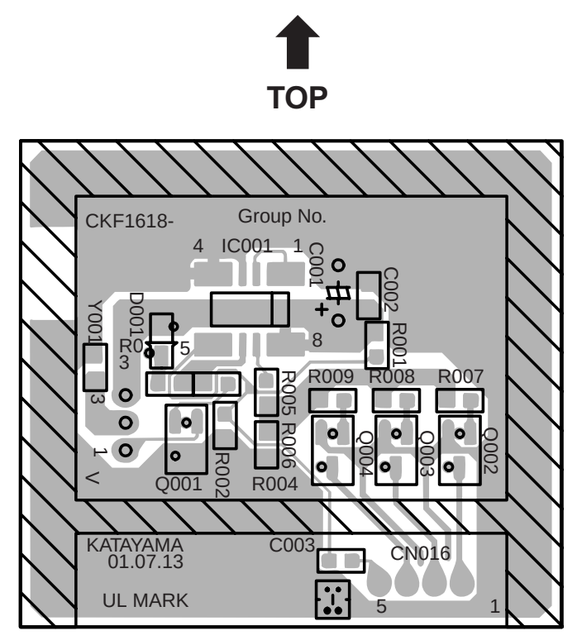
CRT SOCKET PWB PATTERN



FRONT CONTROL PWB PATTERN



BLK PWB PATTERN

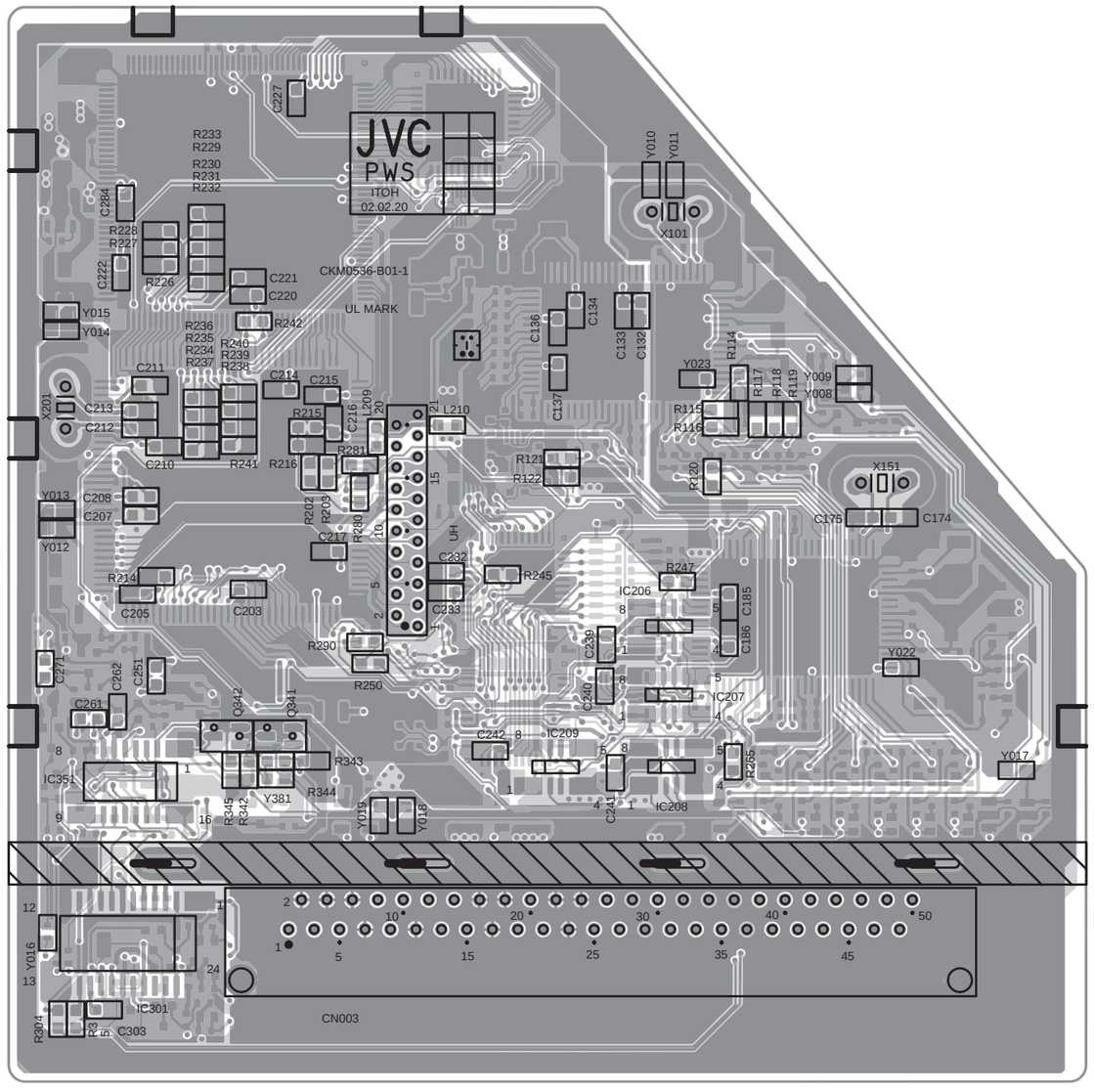


HV-34LZ

100Hz PWB PATTERN

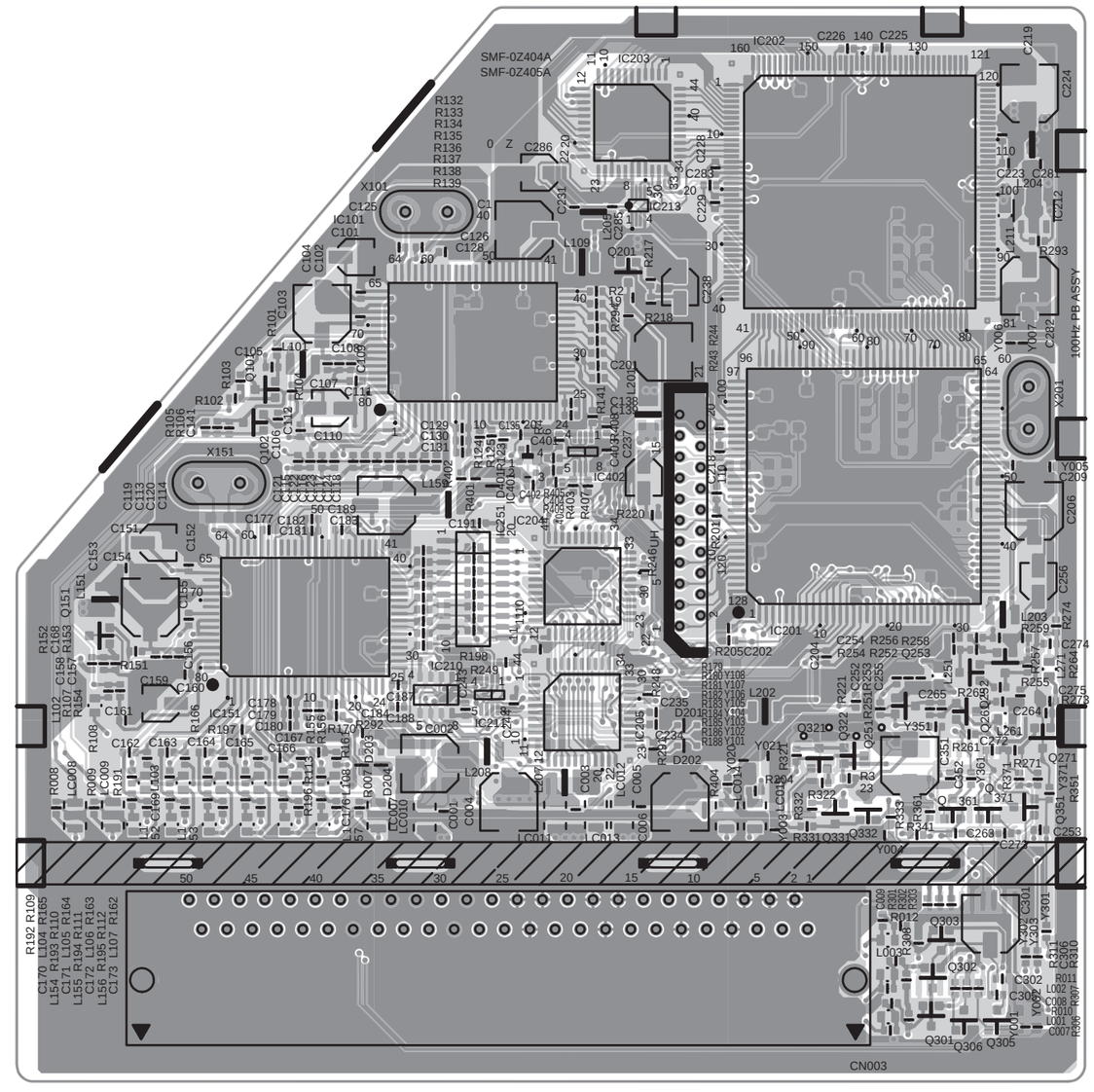
[SOLDER SIDE]

TOP



[PARTS SIDE]

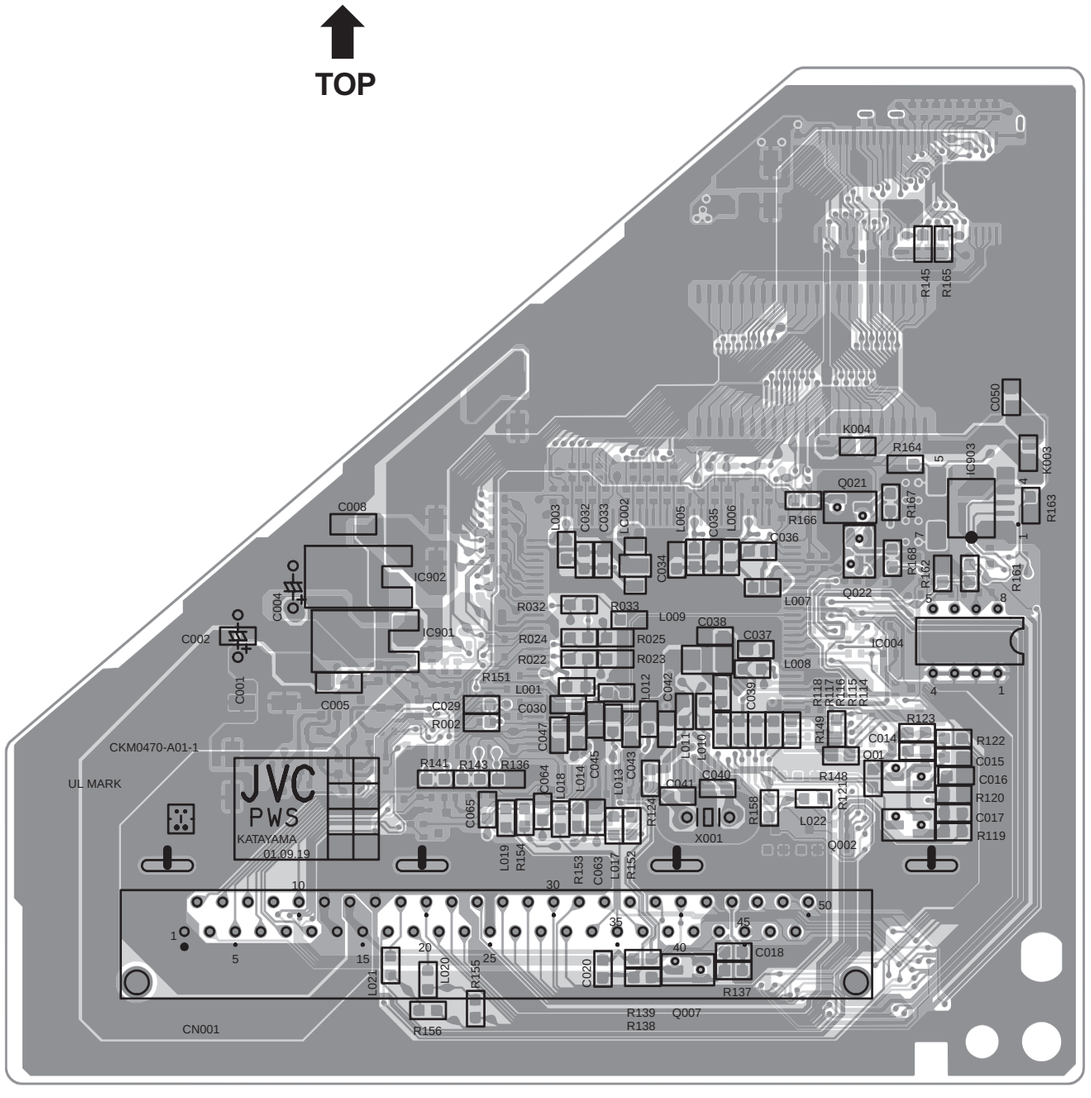
TOP



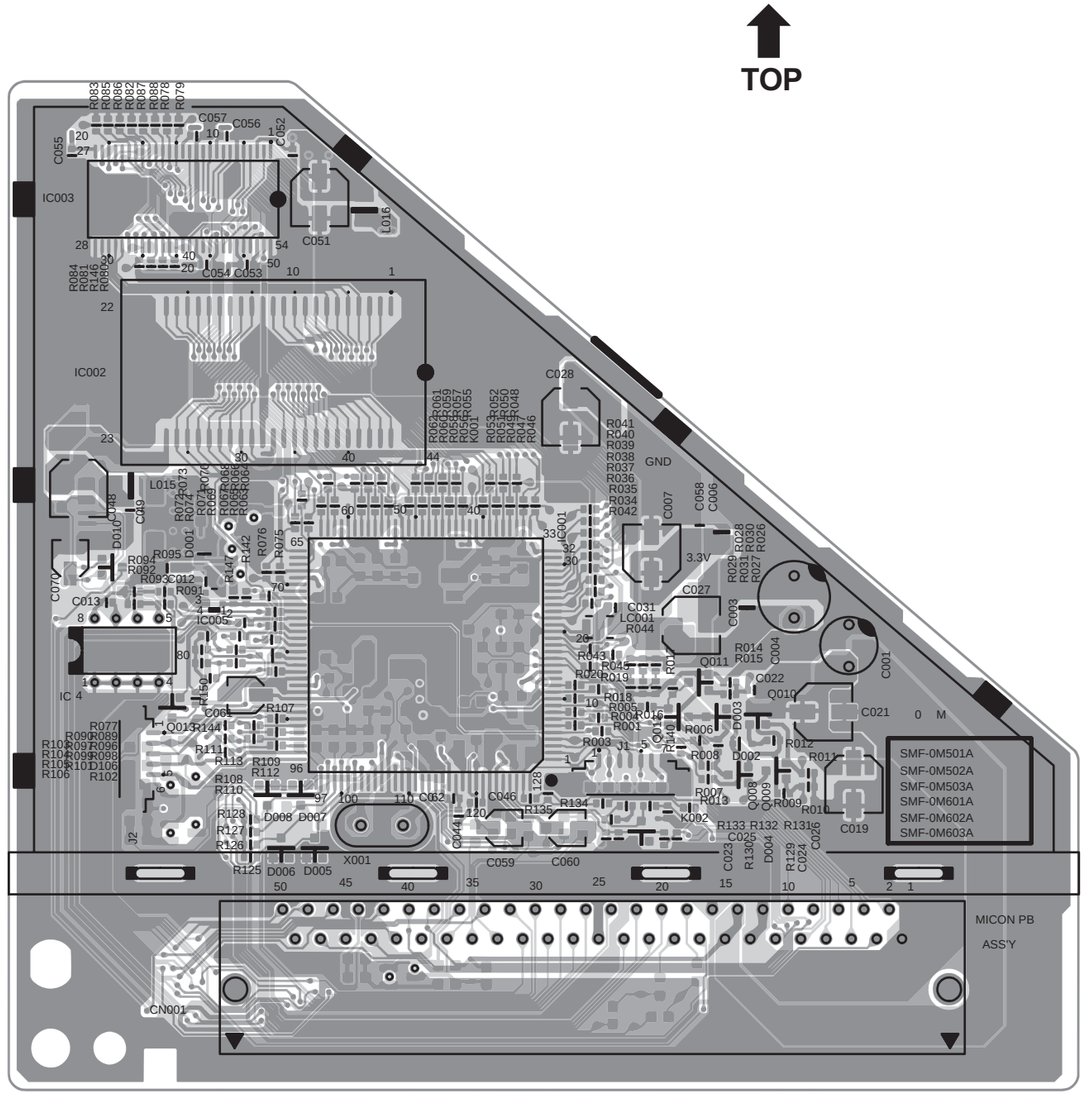
HV-34LZ

MICOM PWB PATTERN

[SOLDER SIDE]



[PARTS SIDE]



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