

JVC

SCHEMATIC DIAGRAMS

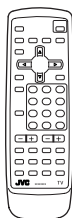
COLOR TELEVISION

HV-29WZ
HV-29WZ/**HK**
HV-29WZ/**-A**
HV-29WZ/**AU**
HV-29WZ/**EE**

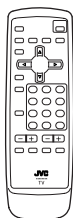
CD-ROM No.SML200209

BASIC CHASSIS

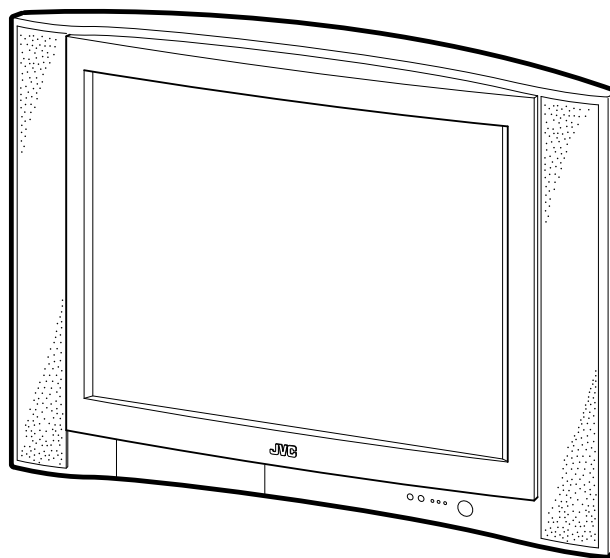
MF



[RM-C1030]
 HV-29WZ
 HV-29WZ/-A
 HV-29WZ/AU
 HV-29WZ/EE



[RM-C1031]
 HV-29WZ/HK



CONTENTS

■ NOTE ON USING CIRCUIT DIAGRAMS	2-1
■ SEMICONDUCTOR SHAPES	2-2
■ BLOCK DIAGRAM	2-3
■ CIRCUIT DIAGRAMS	2-5
■ PATTERN DIAGRAMS	2-21

CONTENTS

SEMICONDUCTOR SHAPES	2-2
BLOCK DIAGRAM	2-3
CIRCUIT DIAGRAMS	
MAIN PWB CIRCUIT DIAGRAM	2-5
BLK PWB CIRCUIT DIAGRAM	2-8
POWER & DEF. PWB CIRCUIT DIAGRAM	2-9
AV SW PWB CIRCUIT DIAGRAM	2-11
FRONT CONTROL PWB CIRCUIT DIAGRAM	2-13
CRT SOCKET PWB CIRCUIT DIAGRAM	2-15
100Hz PWB CIRCUIT DIAGRAM	2-17
MICOM PWB CIRCUIT DIAGRAM	2-19

PATTERN DIAGRAMS

MAIN PWB PATTERN	2-21
POWER & DEF. PWB PATTERN	2-25
AV SW PWB PATTERN	2-27
CRT SOCKET PWB PATTERN	2-28
FRONT CONTROL PWB PATTERN	2-29
BLK PWB PATTERN	2-30
100Hz PWB PATTERN	2-31
MICOM PWB PATTERN	2-33

SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR

IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW

CHIP IC

TOP VIEW		

HV-29WZ,HV-29WZ/HK,HV-29WZ/-A,HV-29WZ/AU,HV-29WZ/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

	:B1		:B2 (12V)
	:9V		:5V

* Respective voltage values are indicated

(5)Test point

	: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.

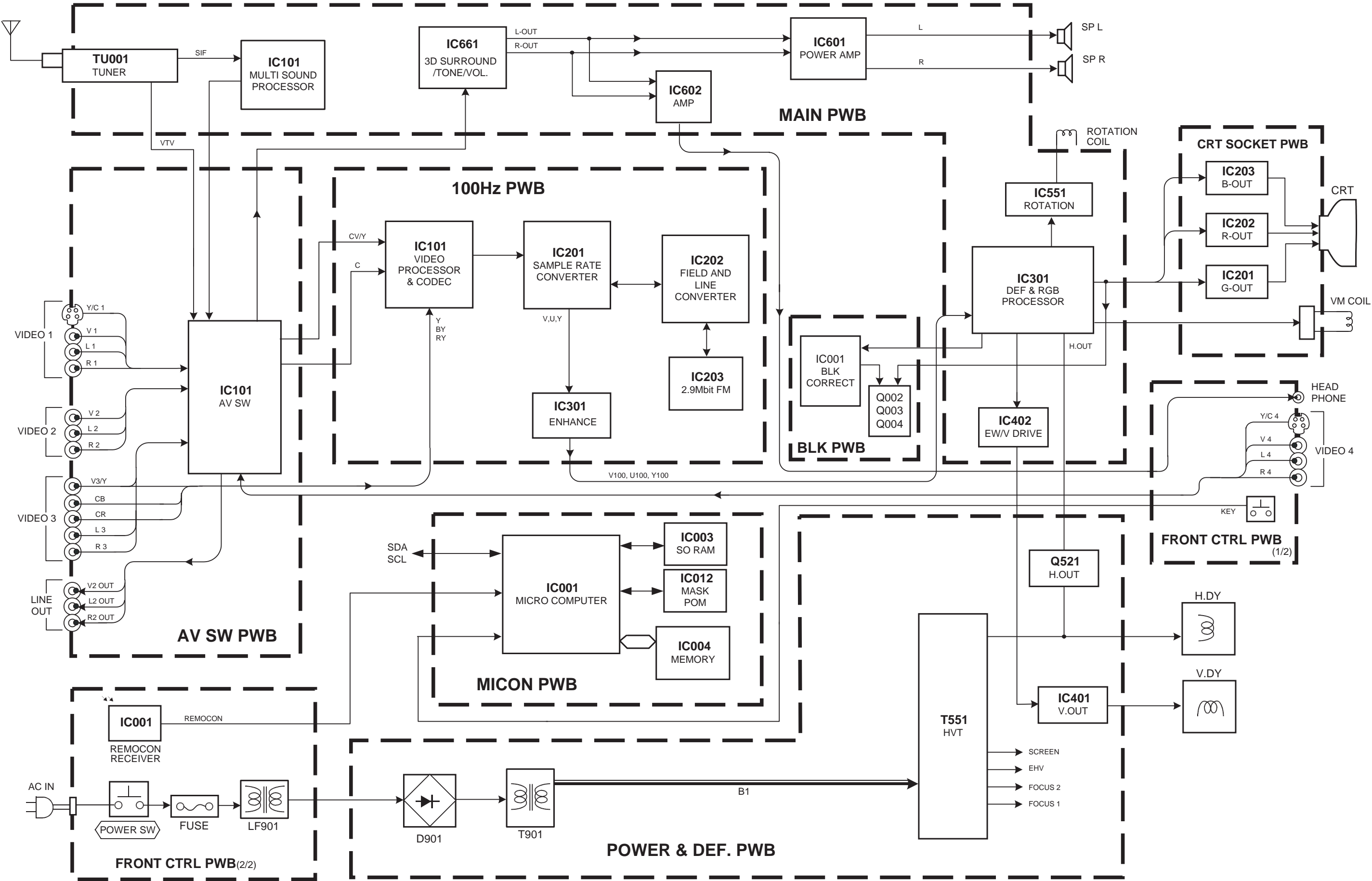
- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.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

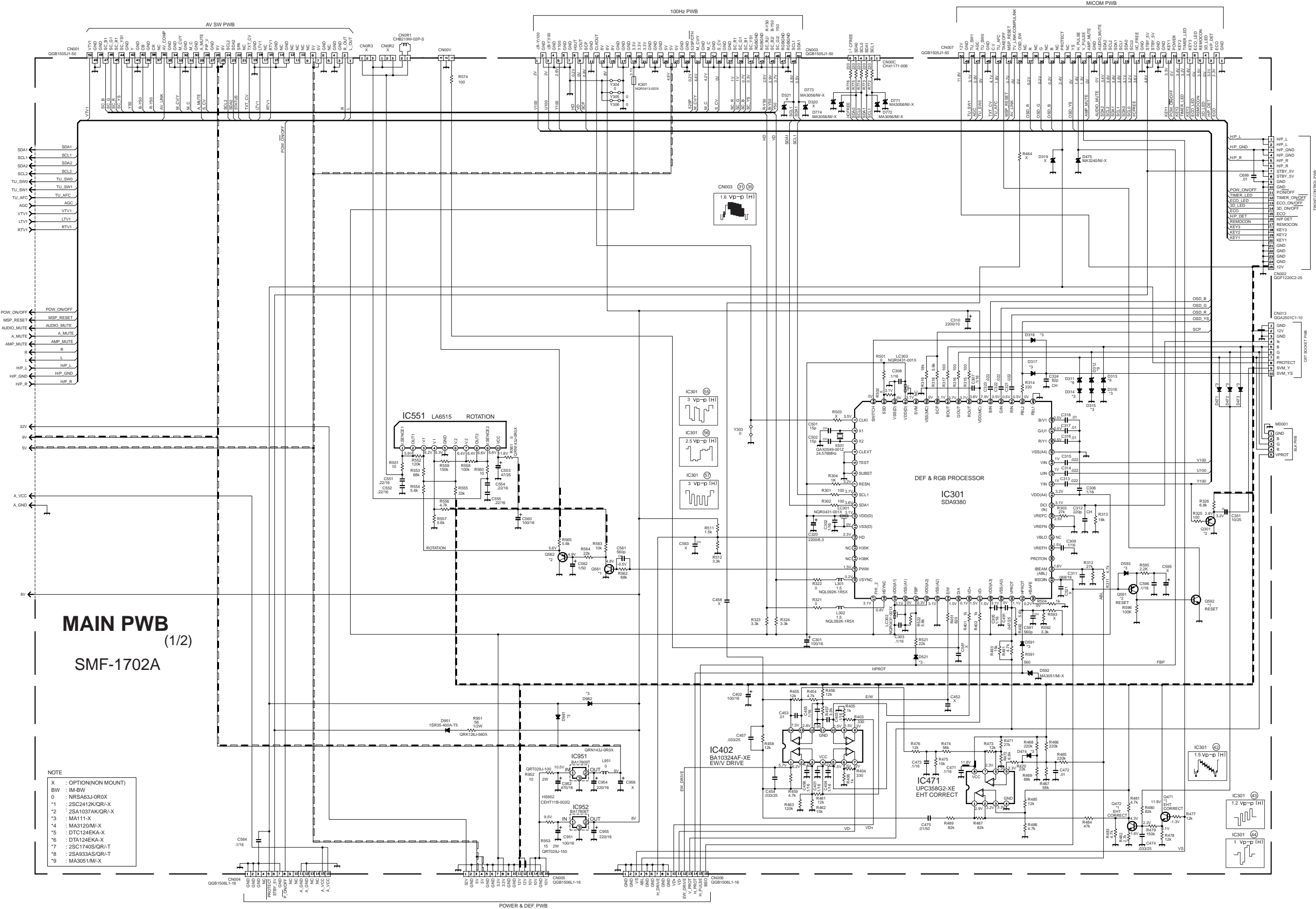
◇ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.
When ordering parts, please use the numbers that appear in the Parts List.

BLOCK DIAGRAM

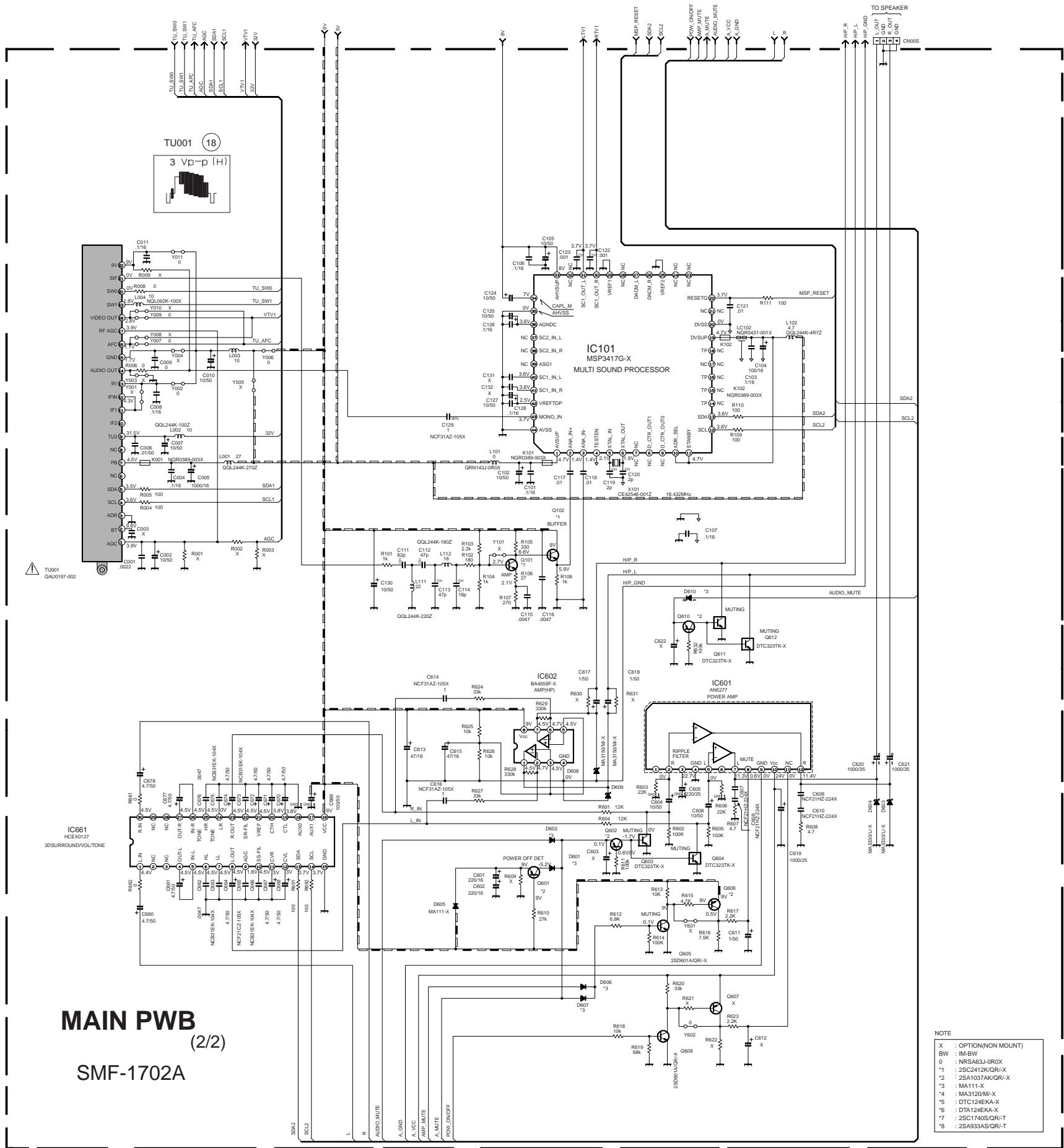


CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAM [1/2]

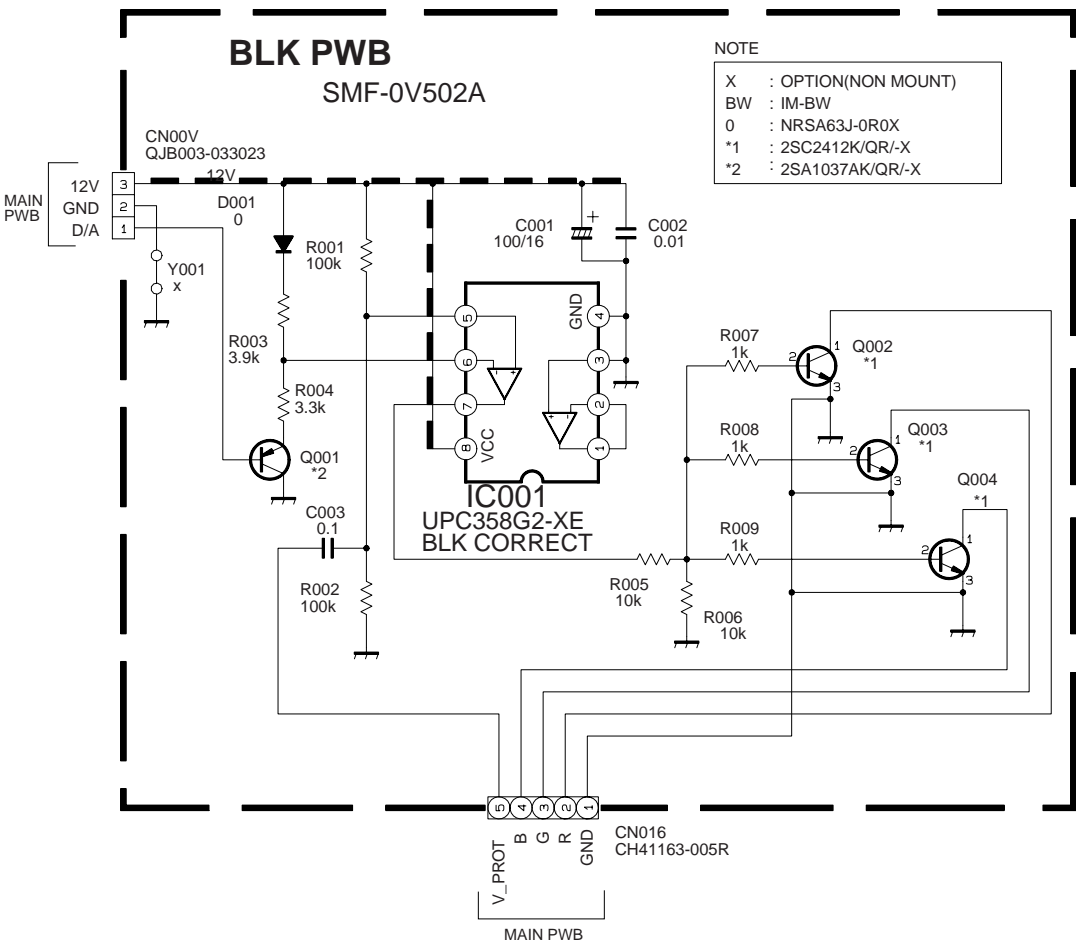
HV-29WZ HV-29WZ



MAIN PWB CIRCUIT DIAGRAM [2/2]



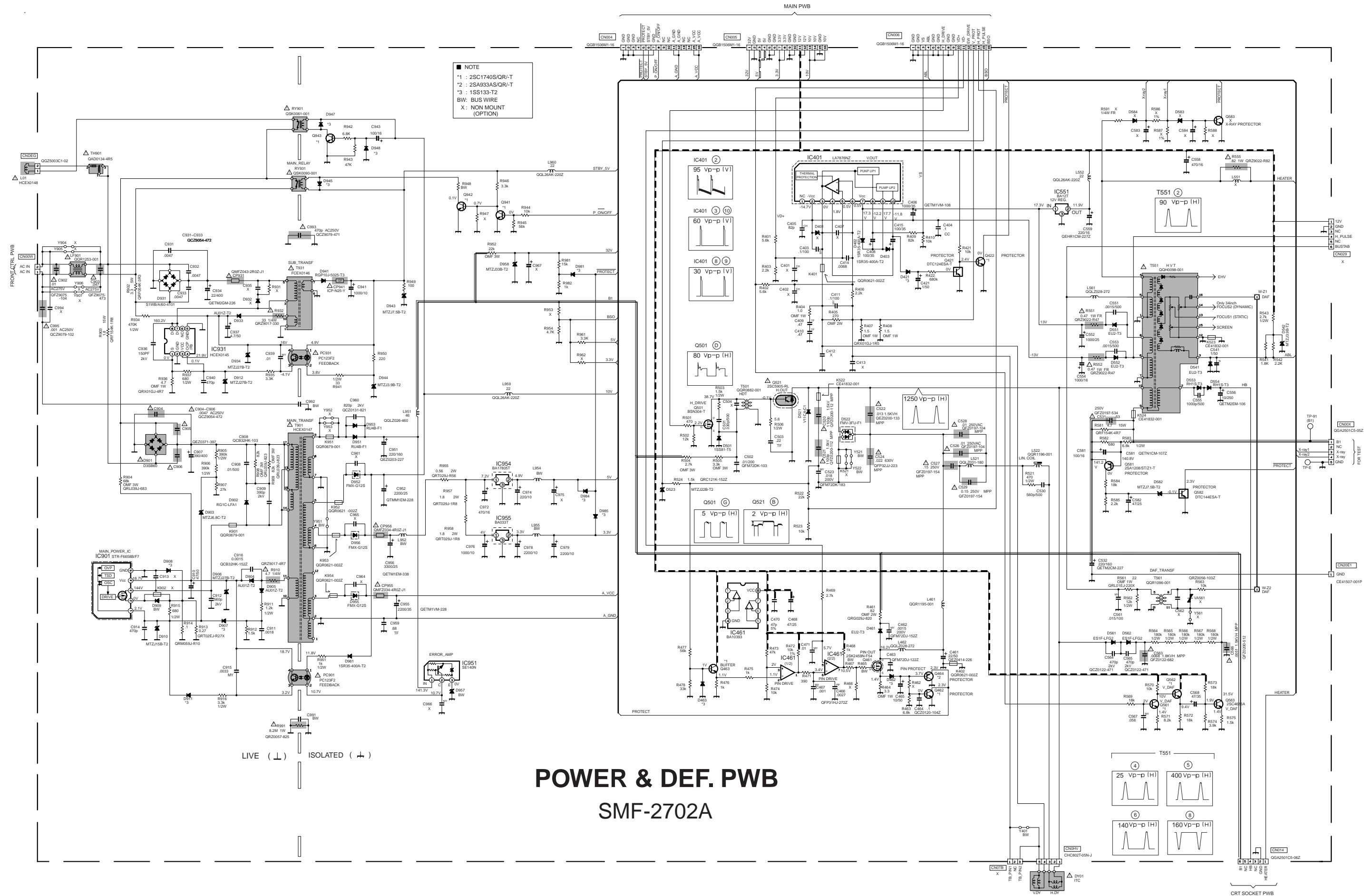
BLK PWB CIRCUIT DIAGRAM



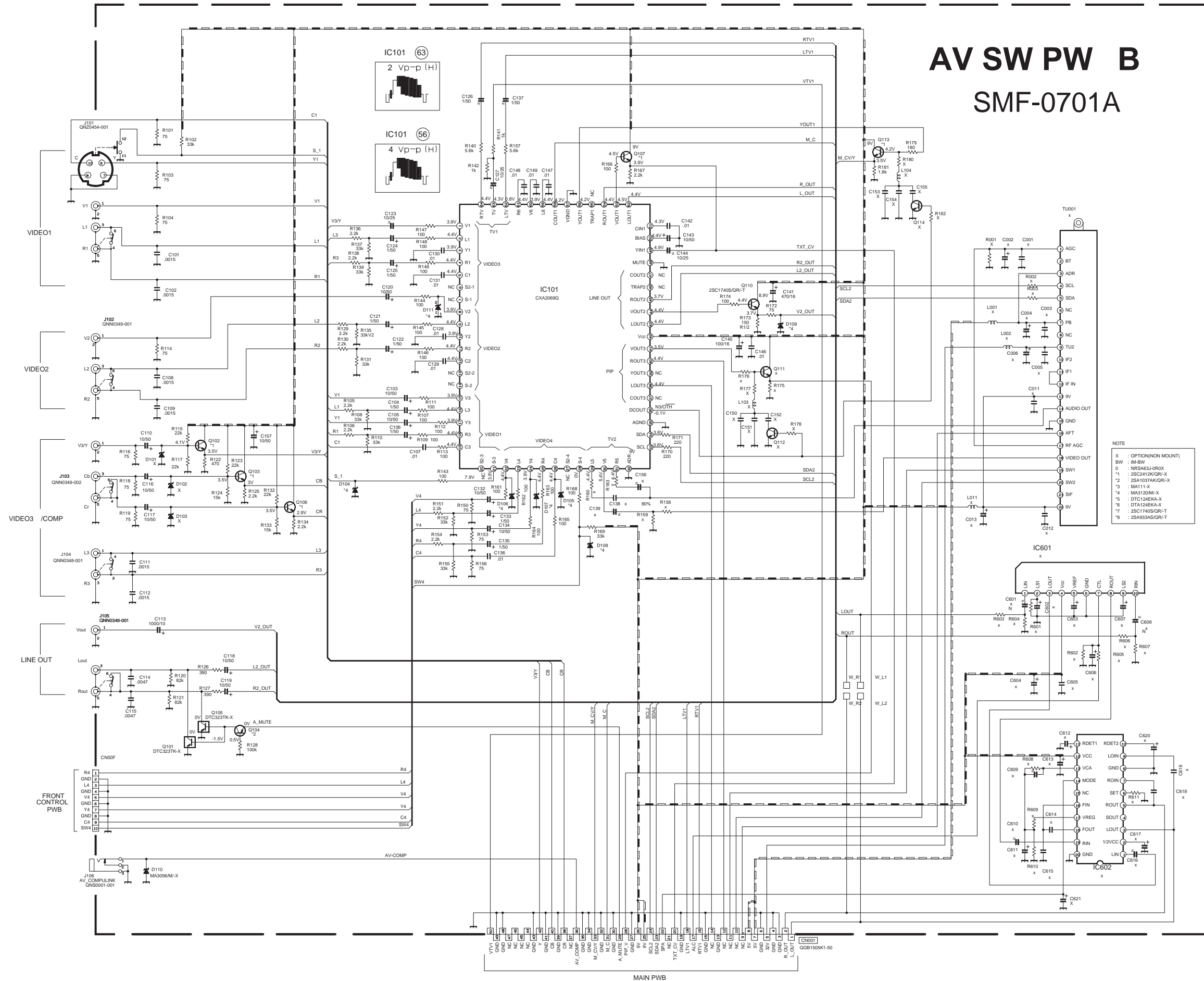
NOTE

- X : OPTION(NON MOUNT)
- BW : IM-BW
- 0 : NRS A63J-OR0X
- *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

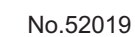
POWER & DEF. PWB
SMF-2702A



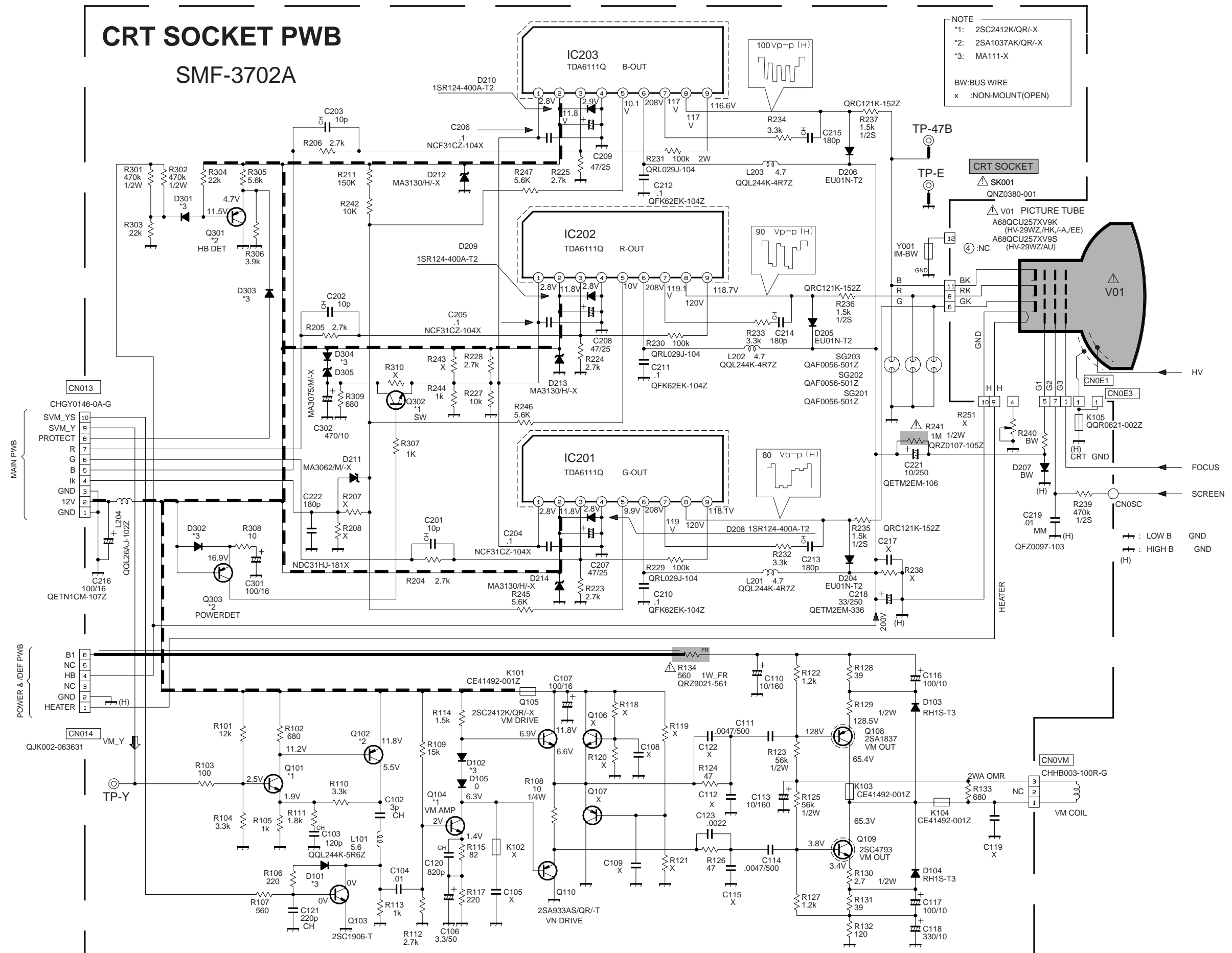
AV SW PWB CIRCUIT DIAGRAM



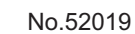
FRONT CTRL PWB
SMF-8701A

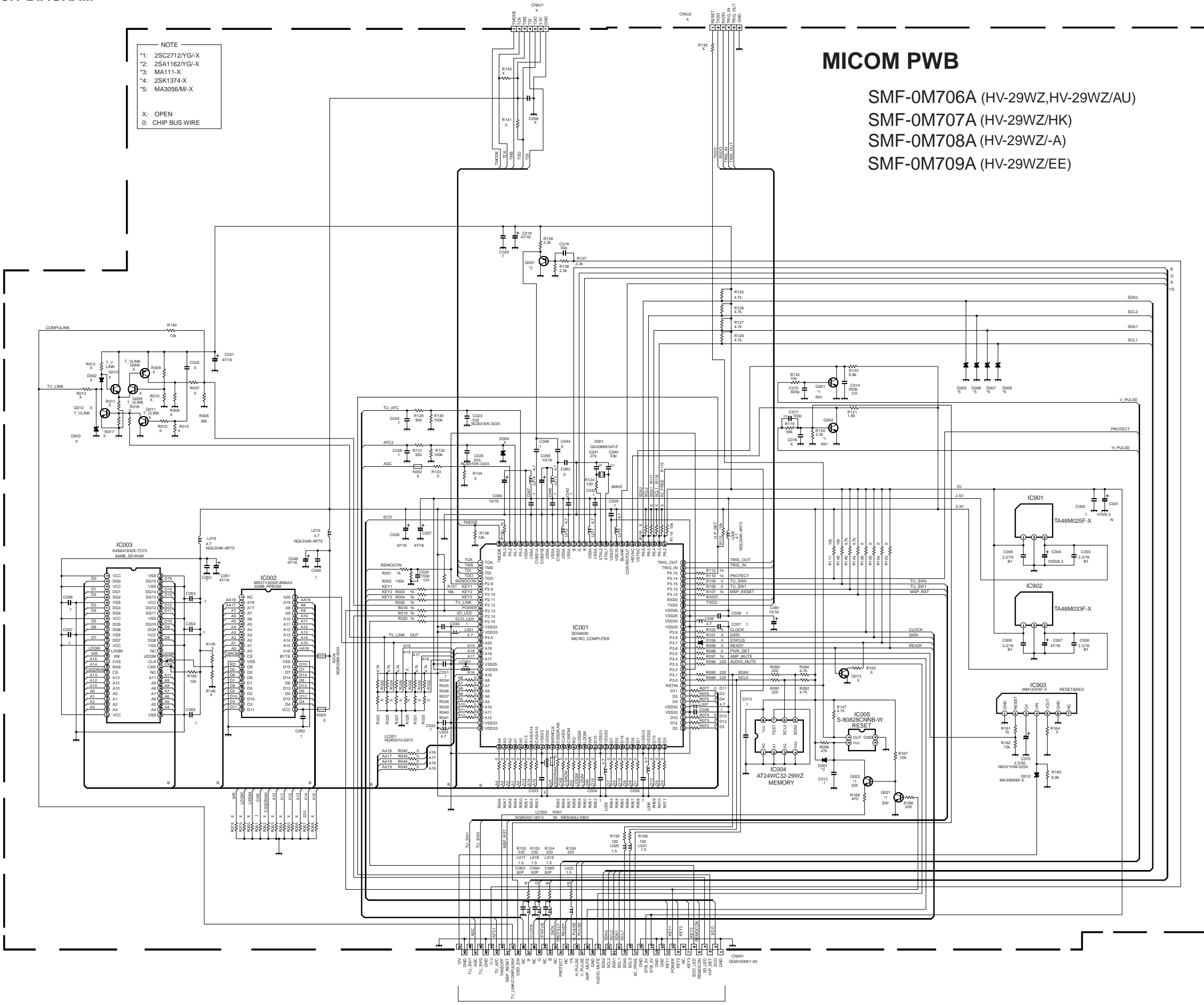


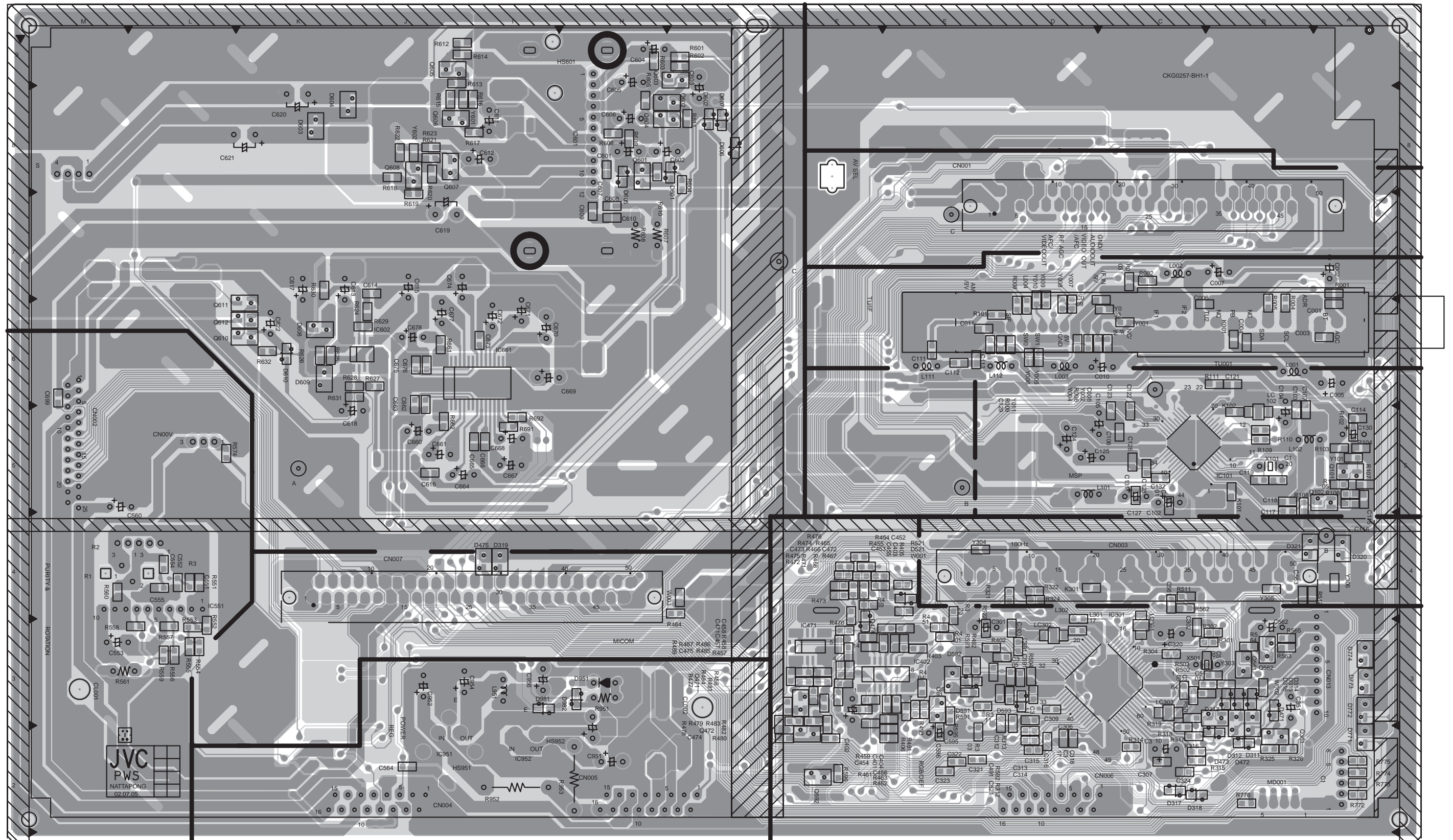
CRT SOCKET PWB CIRCUIT DIAGRAM



100Hz PWB
SMF-0Z701A

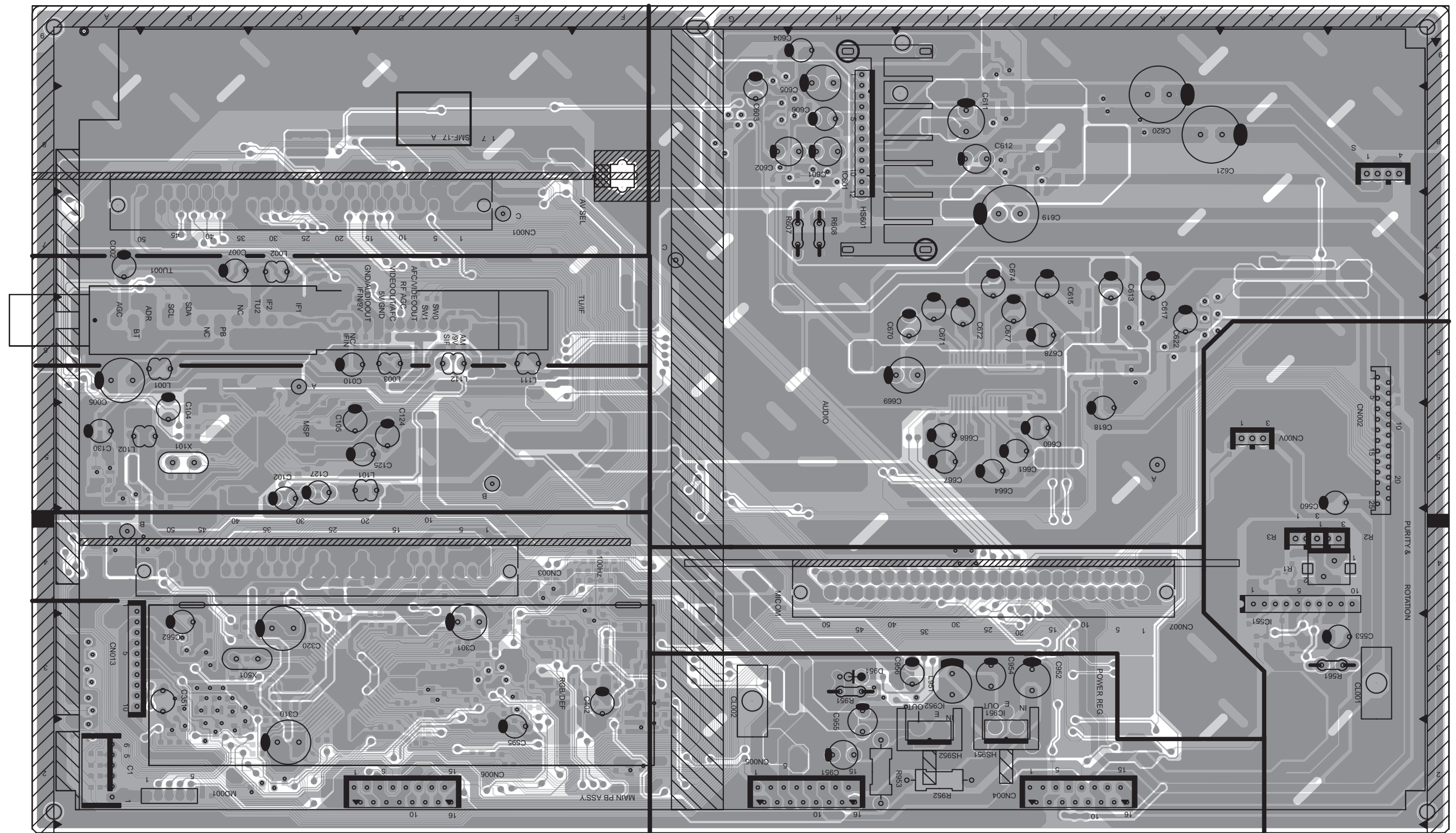




PATTERN DIAGRAMS *MAIN PWB PATTERN* (SOLDER SIDE)

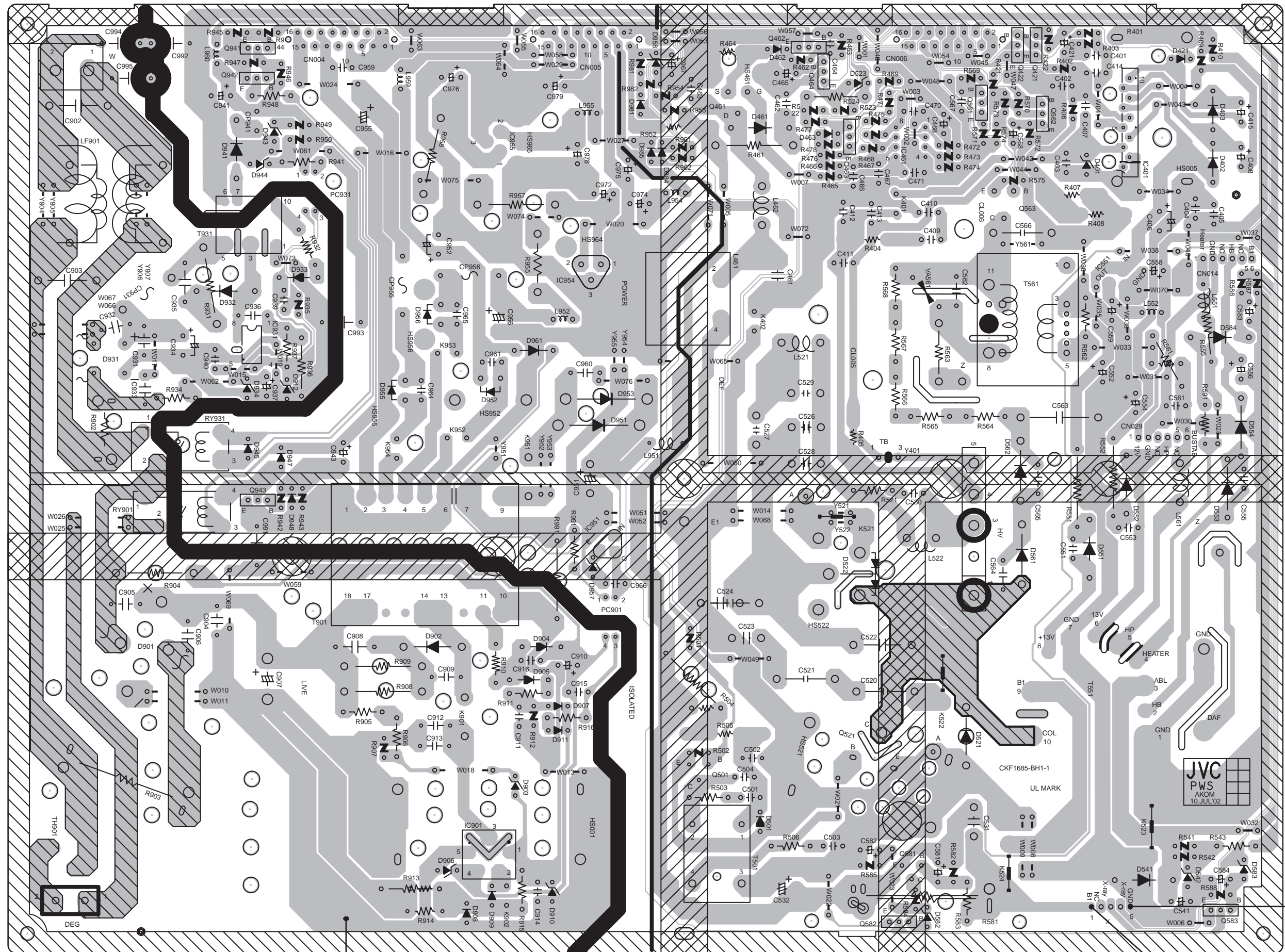
MAIN PWB PATTERN (PARTS SIDE)

FRONT 



POWER & DEF. PWB PATTERN

FRONT



No.52019

(1)

2-25

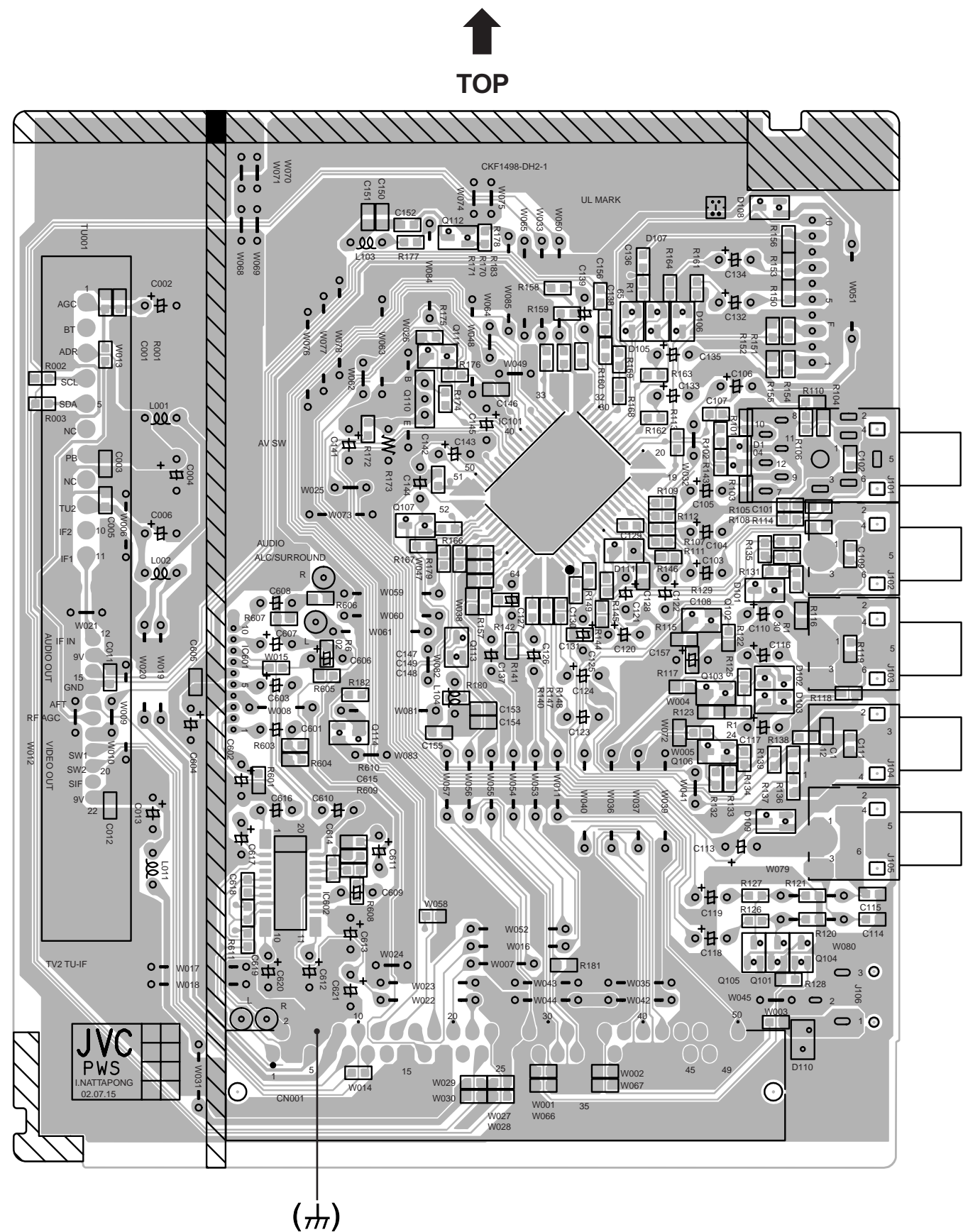
2-26

No.52019

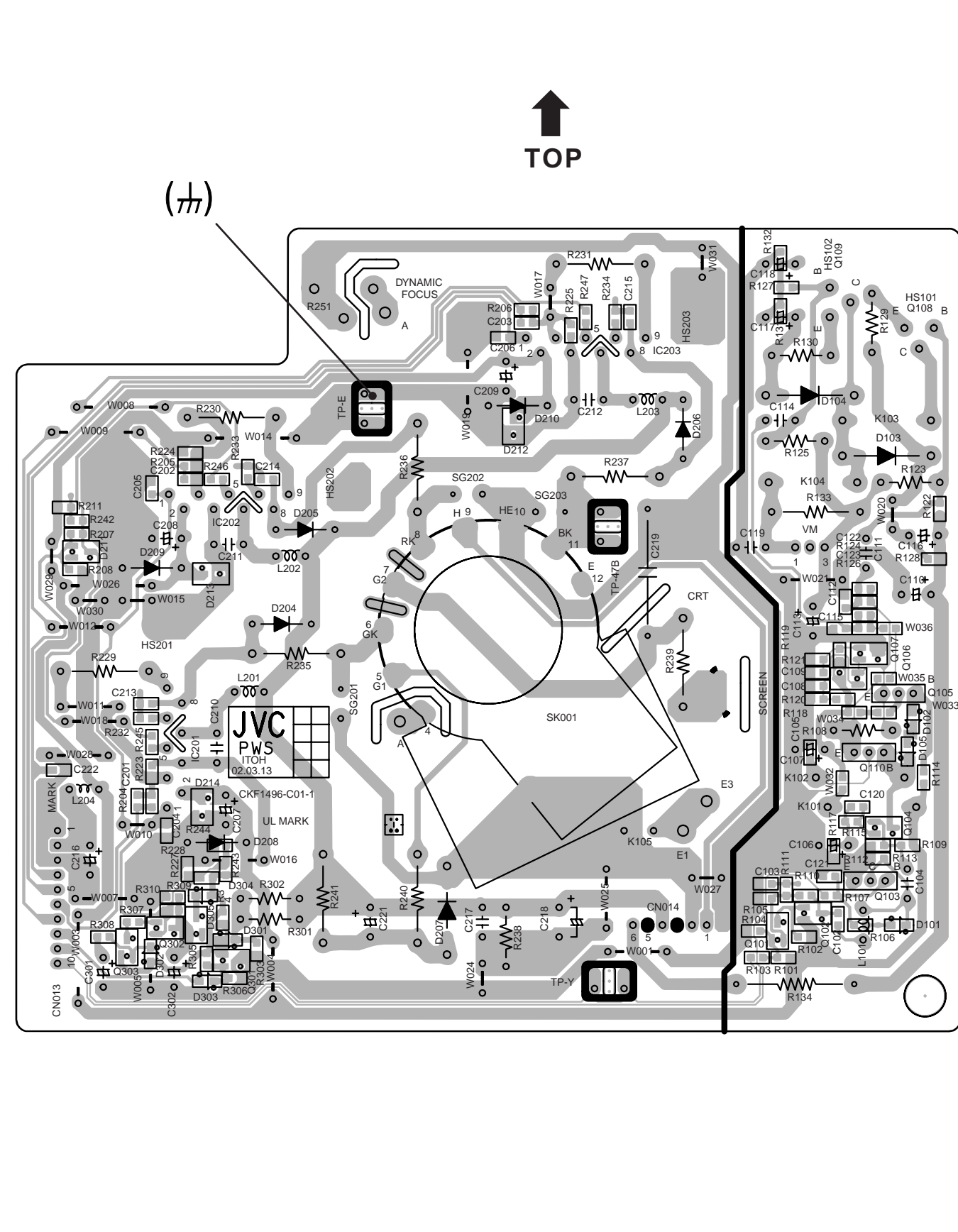
TP-91(B1)

TP-E
(H)

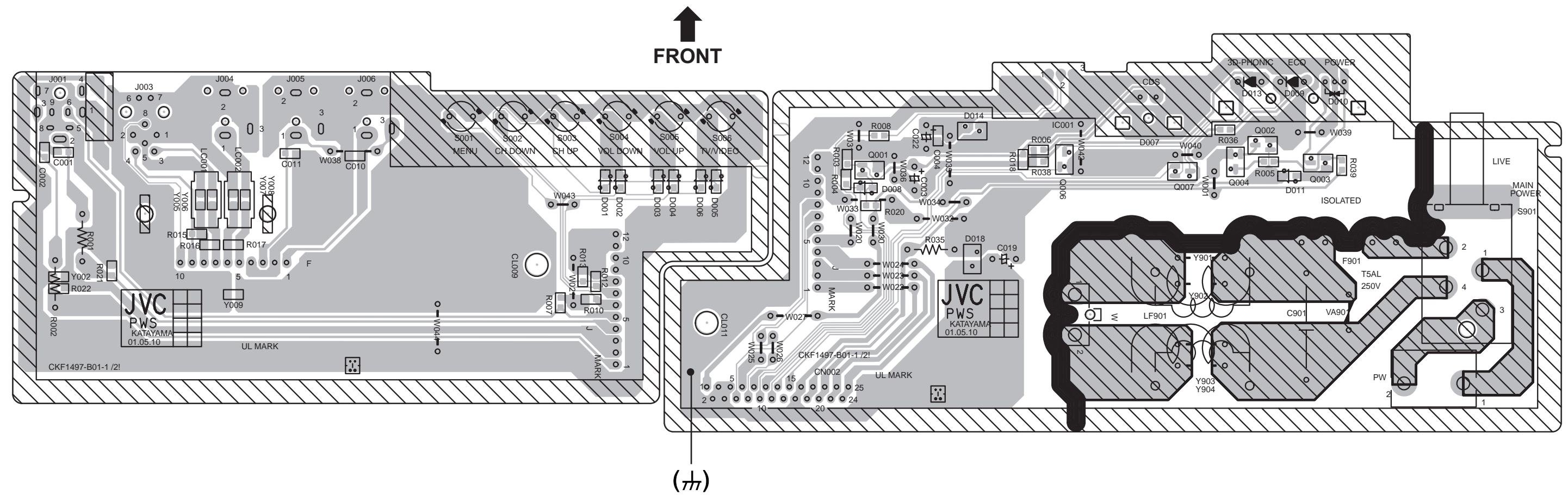
AV SW PWB PATTERN



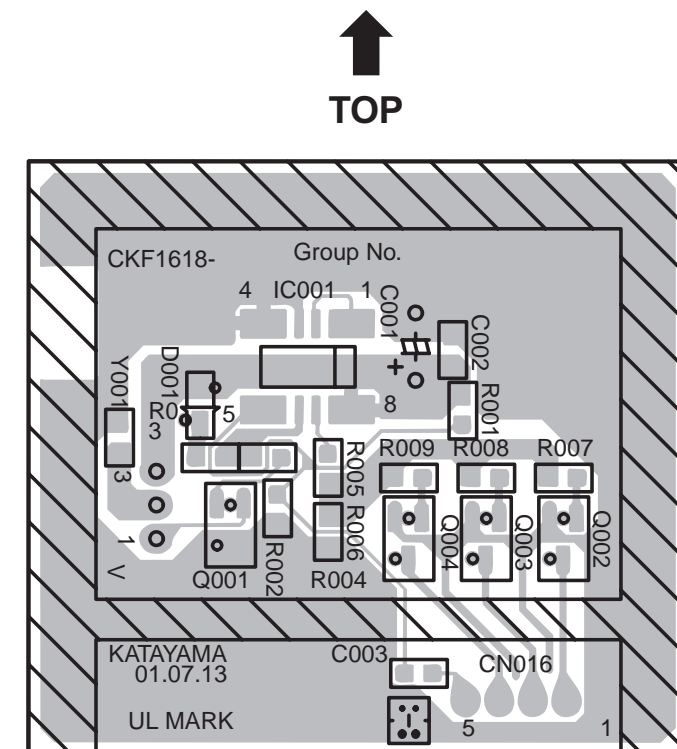
CRT SOCKET PWB PATTERN



FRONT CONTROL PWB PATTERN



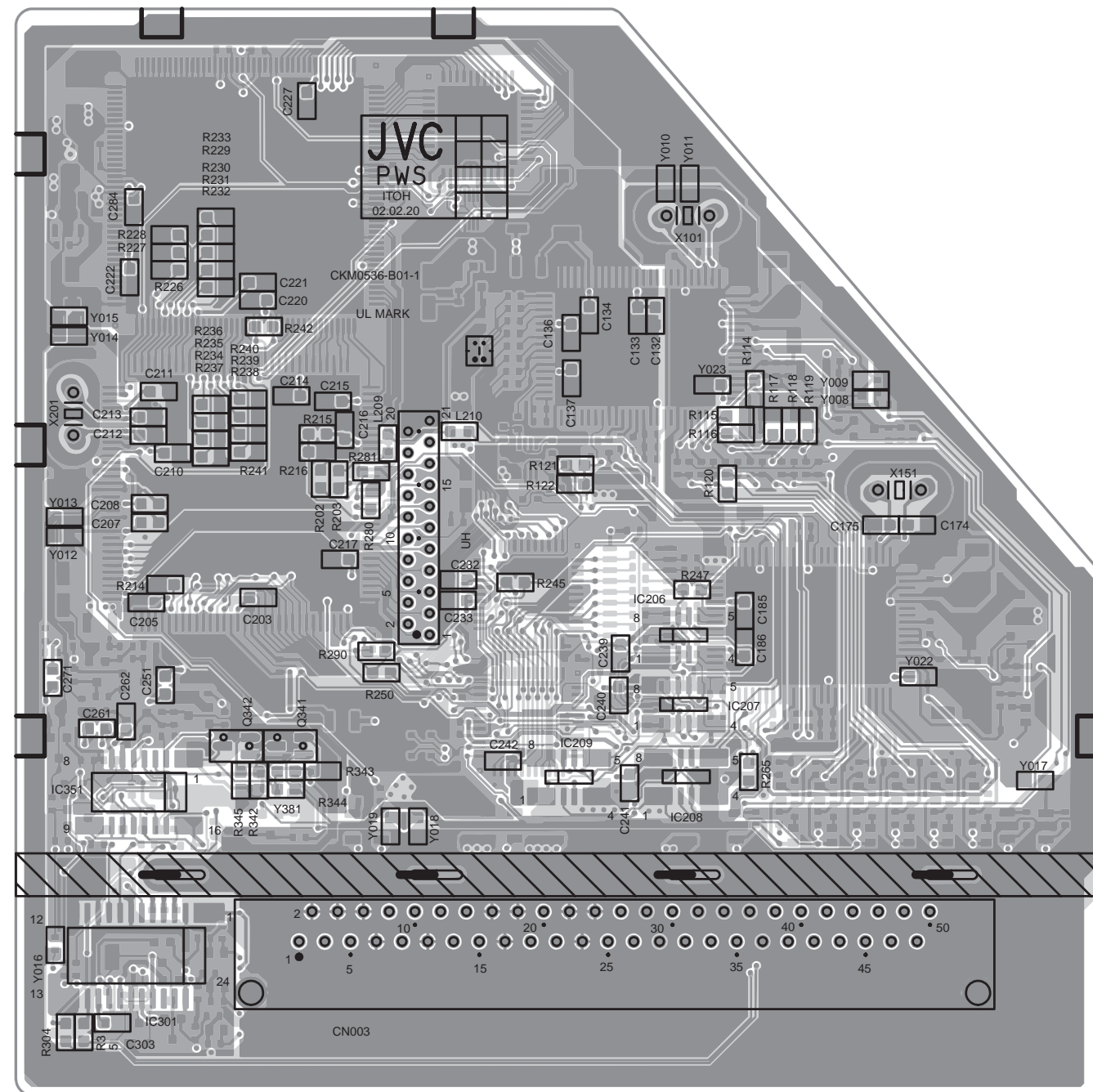
BLK PWB PATTERN



100Hz PWB PATTERN

[SOLDER SIDE]

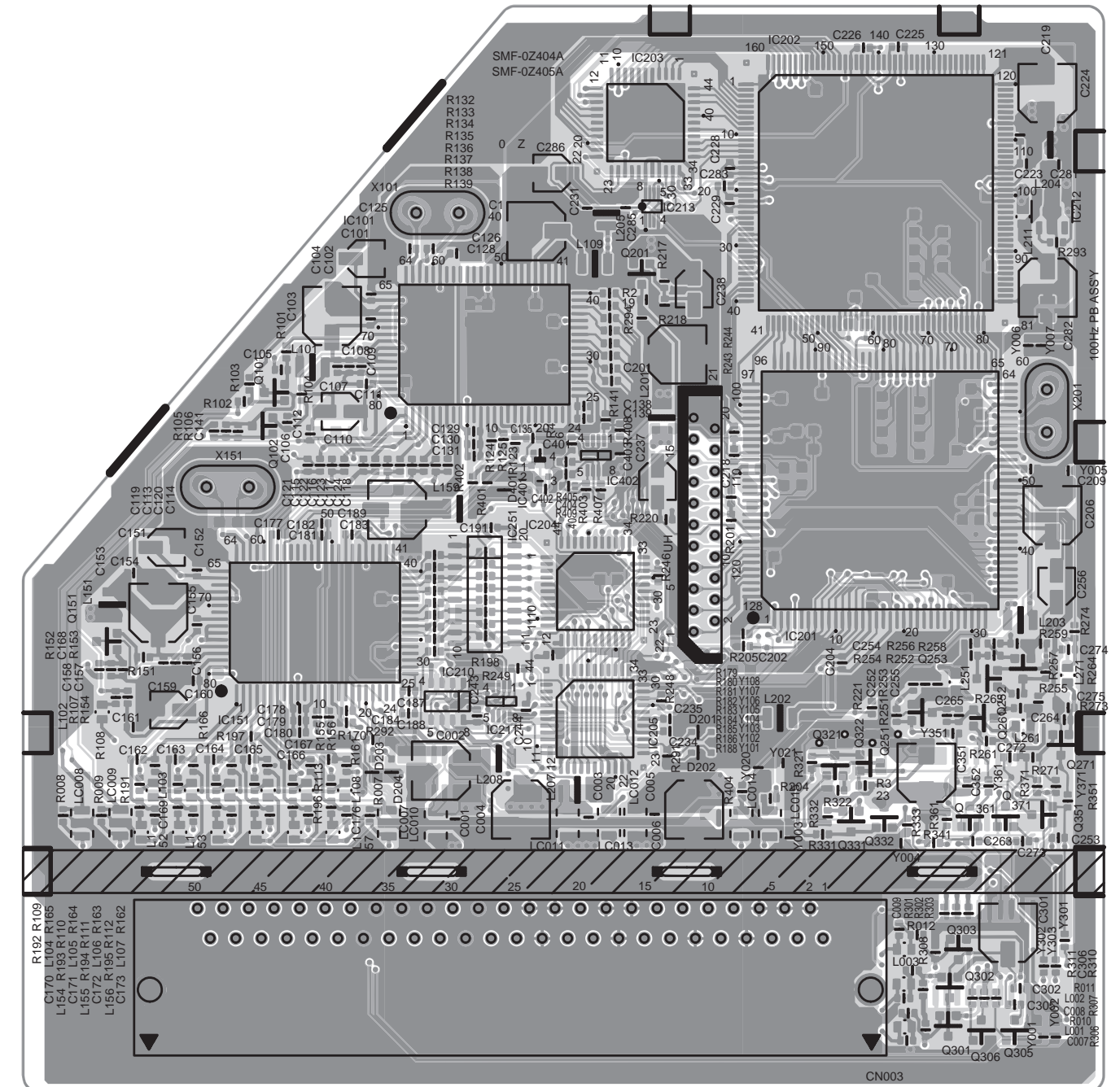
 **TOP**



2-31

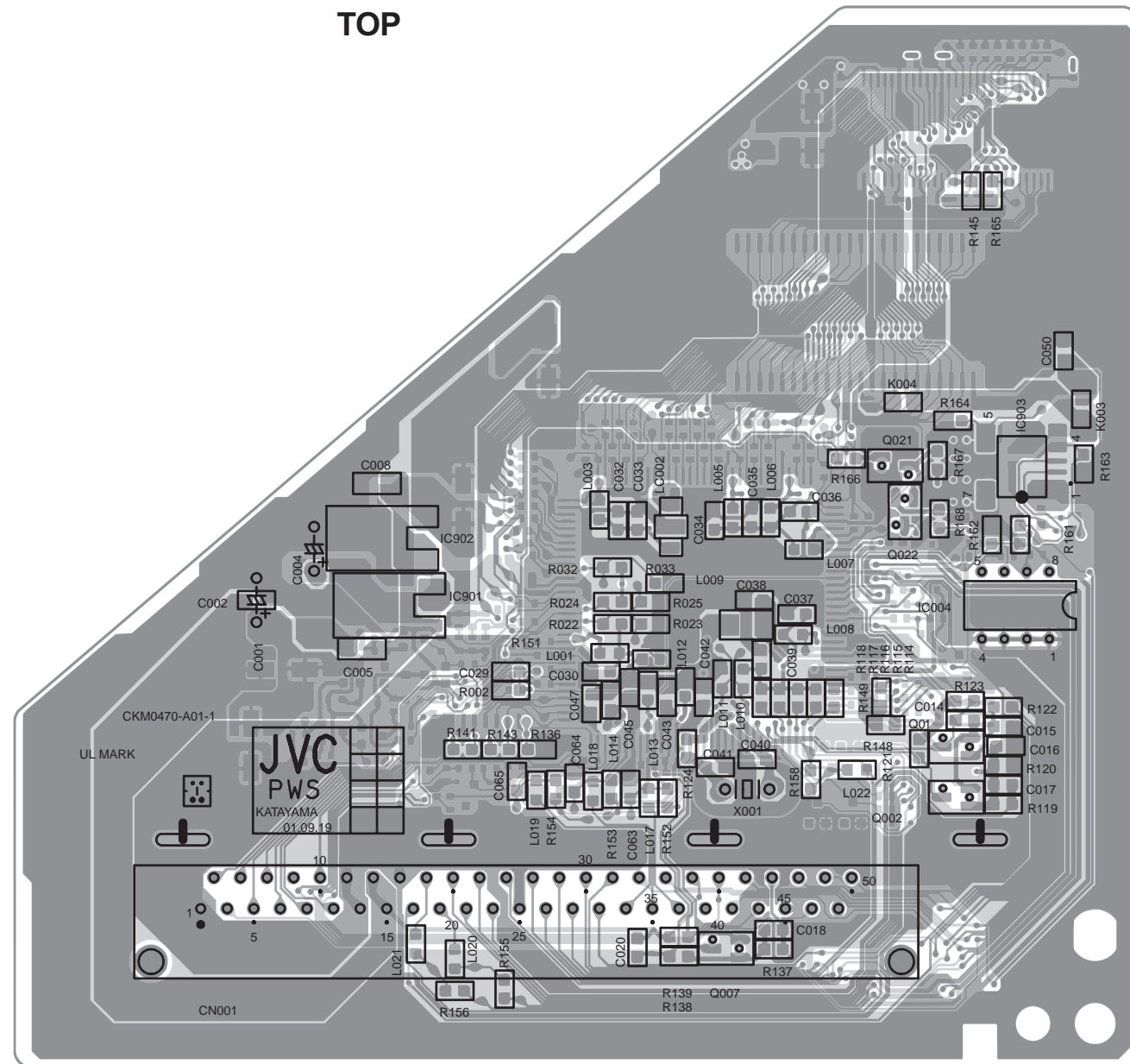
[PARTS SIDE]

 **TOP**



MICOM PWB PATTERN

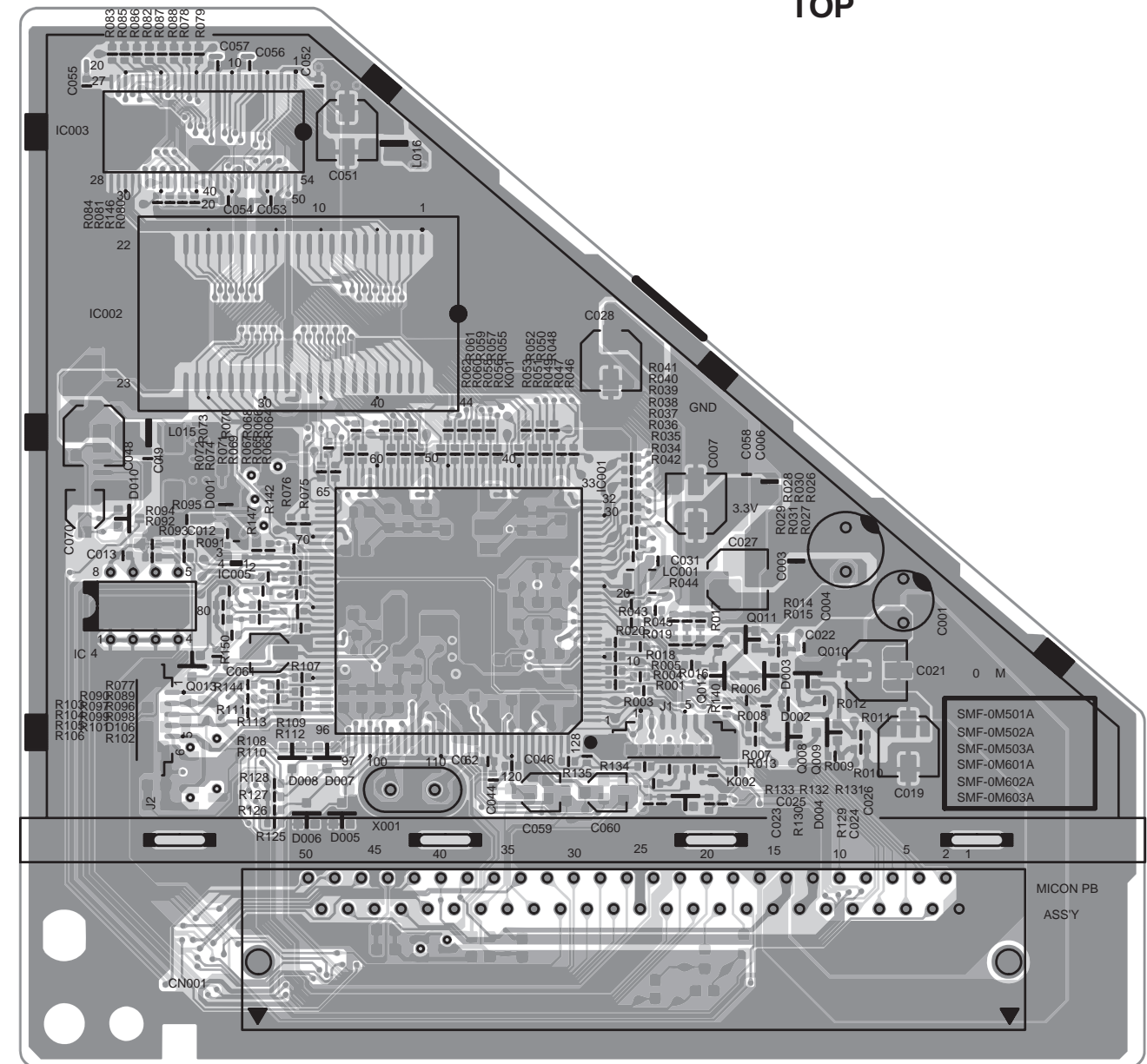
[SOLDER SIDE]



No.52019

2-33

[PARTS SIDE]



No.52019

2-34



VICTOR COMPANY OF JAPAN, LIMITED
HOME AV NETWORK BUSINESS UNIT. 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama, Kanagawa-prefecture, 221-8528, Japan



Printed in Japan
0209 WPC
DP6060