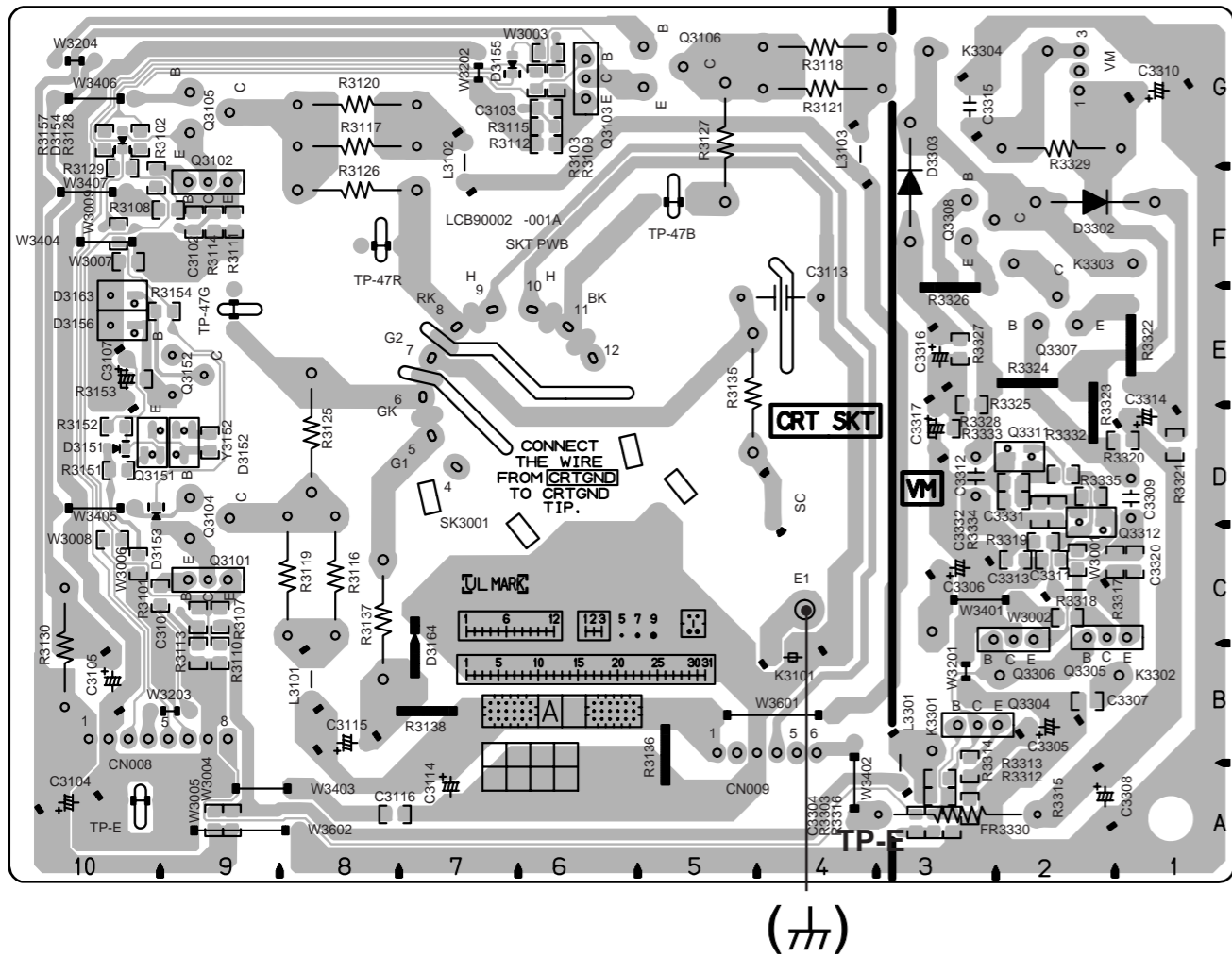


CRT SOCKET PWB PATTERN



AV28T25EKS / AV28T25EKB AV28T55EKS / AV28T25EIS STANDARD CIRCUIT DIAGRAM

NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the Δ 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.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board :R1209 \rightarrow 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 : [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)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 : (\perp) side GND and the ISOLATED(NEUTRAL) : (\perp) 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 (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.

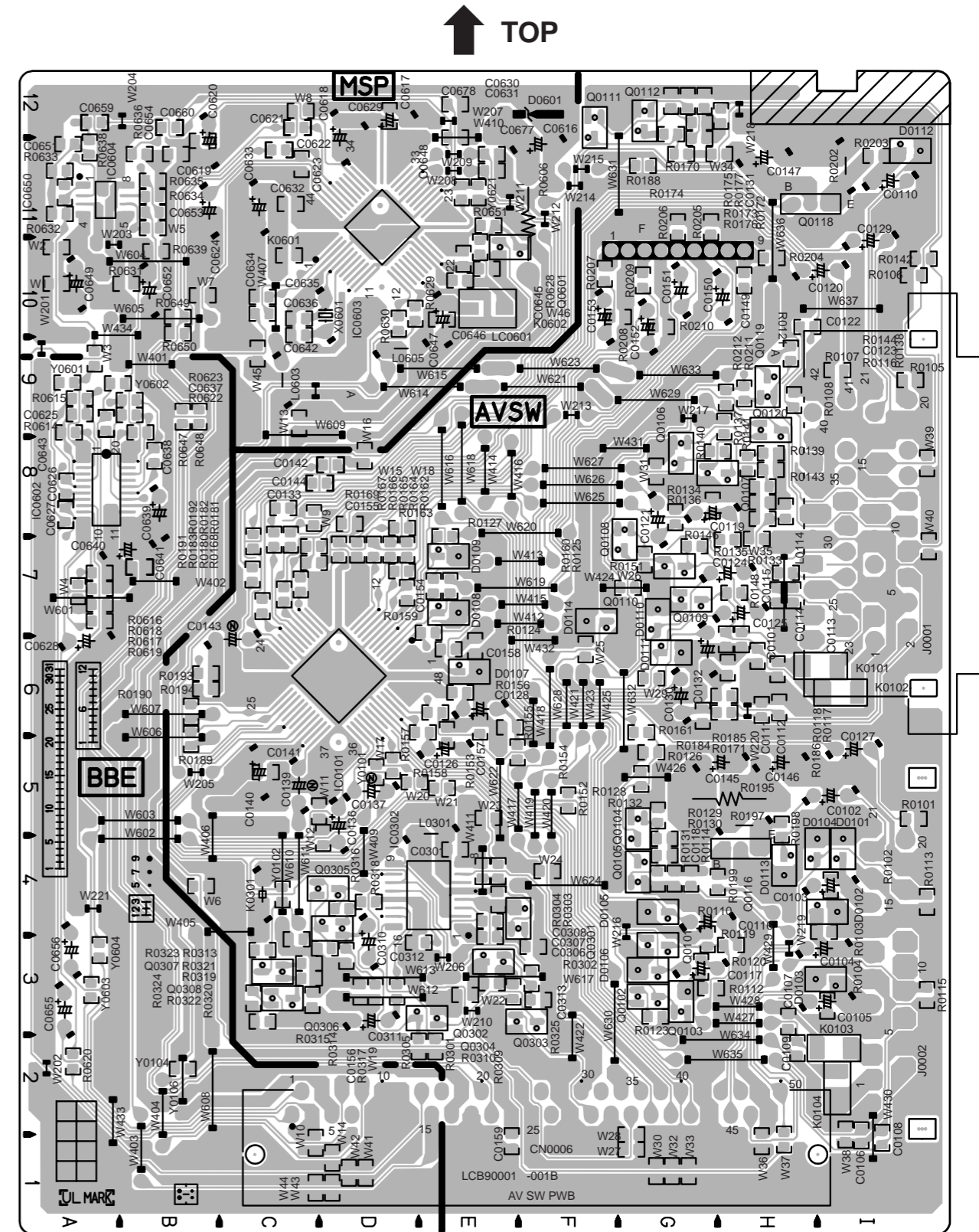
NOTE

- ◇ 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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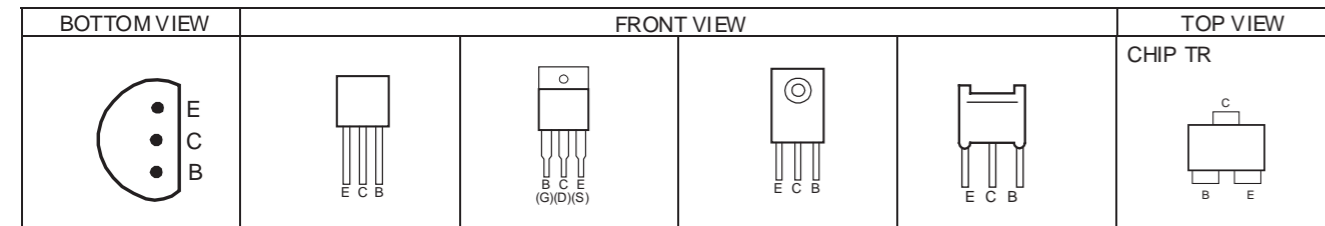
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AV SW PWB PATTERN

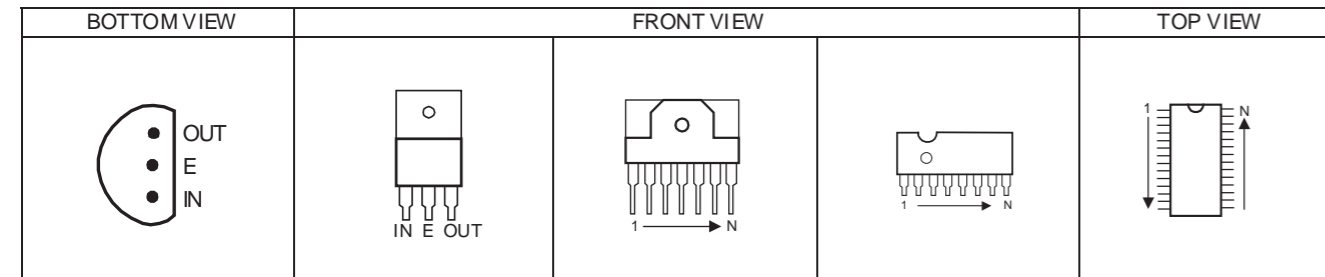


SEMICONDUCTOR SHAPES

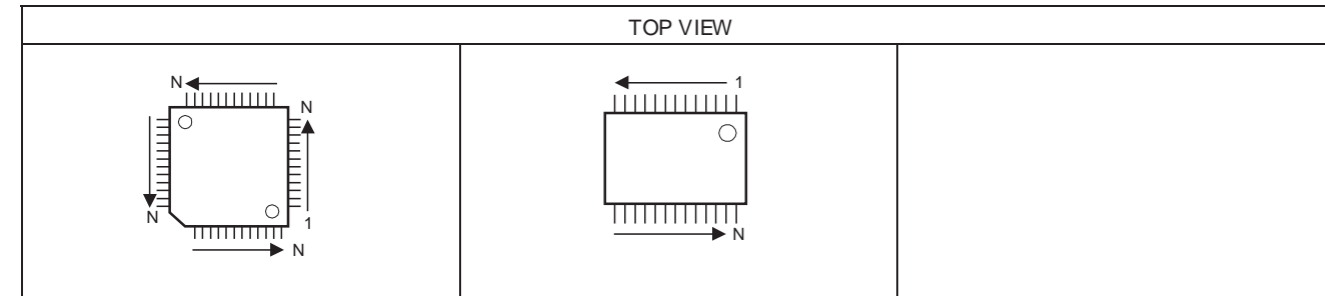
TRANSISTOR



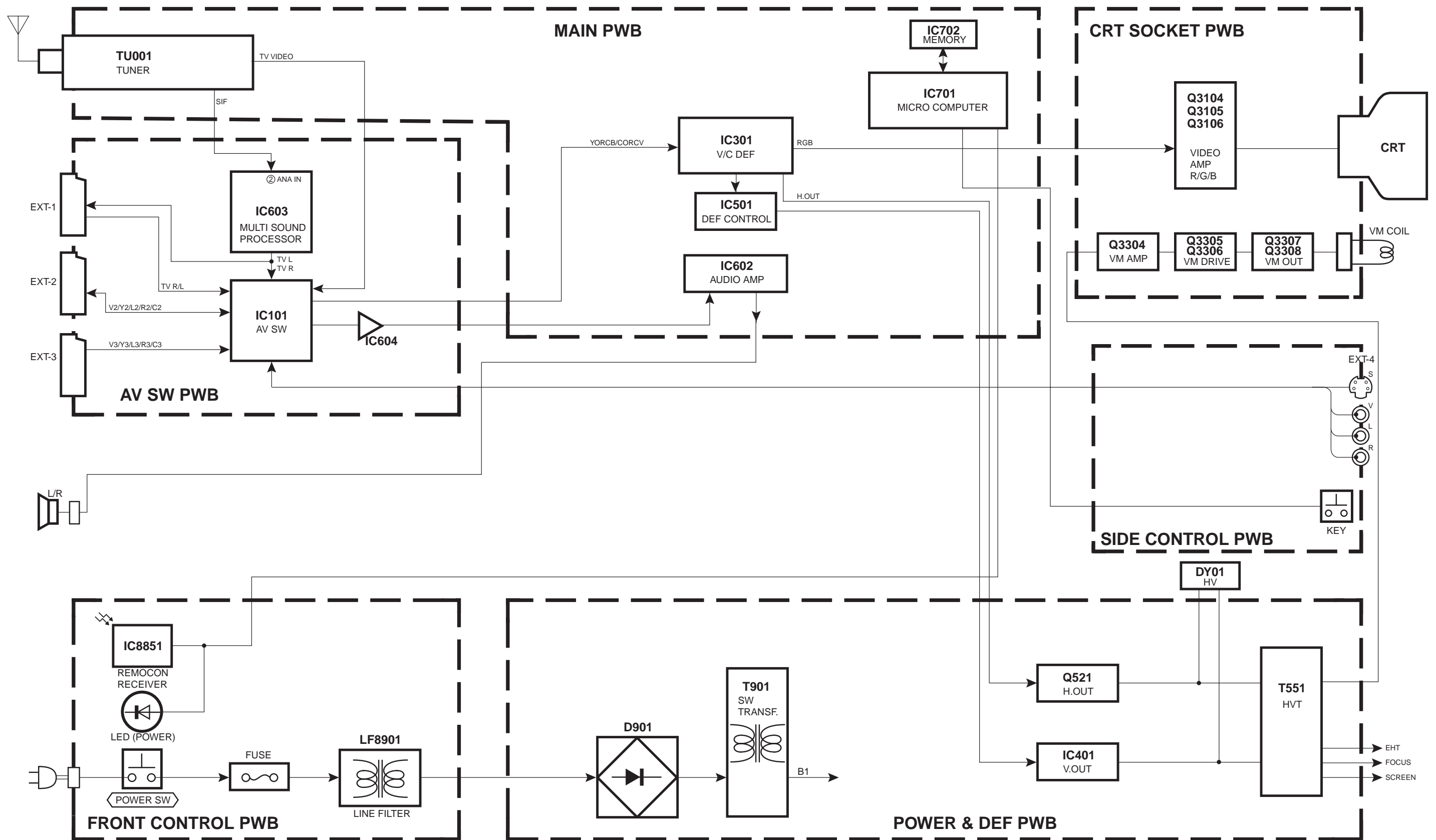
IC

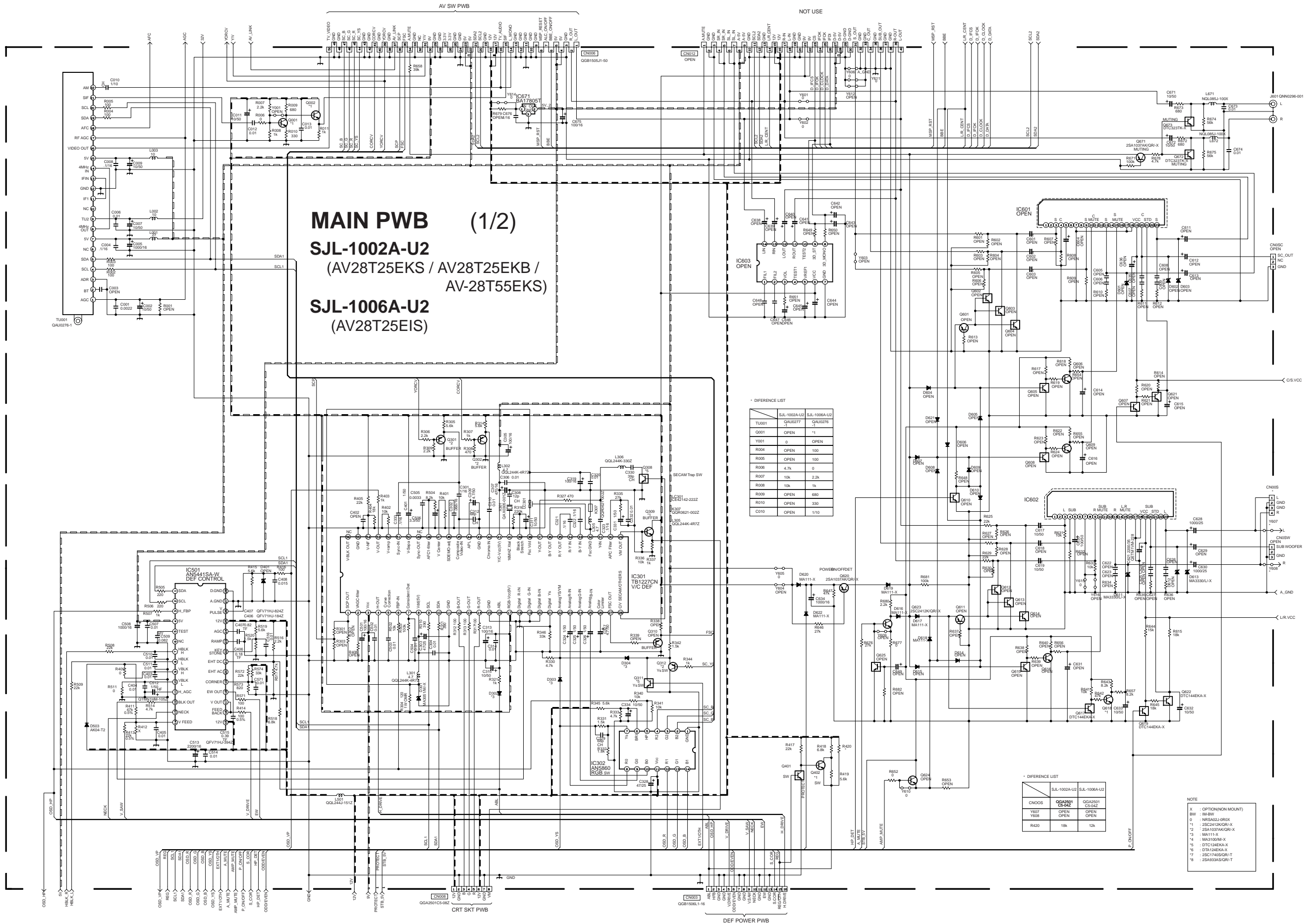


CHIP IC



BLOCK DIAGRAM





DIFFERENCE LIST

	SJL-1002A-U2	SJL-1006A-U2
TU001	GAU0277	GAU0276
Q001	OPEN	1
Y001	0	OPEN
R004	OPEN	100
R005	OPEN	100
R006	4.7k	0
R007	10k	2.2k
R008	10k	1k
R009	OPEN	680
R010	OPEN	330
C010	OPEN	1/10

DIFFERENCE LIST

	SJL-1002A-U2	SJL-1006A-U2
CN005	GA2A201	GA2A201
Y607	OPEN	OPEN
R420	10k	12k

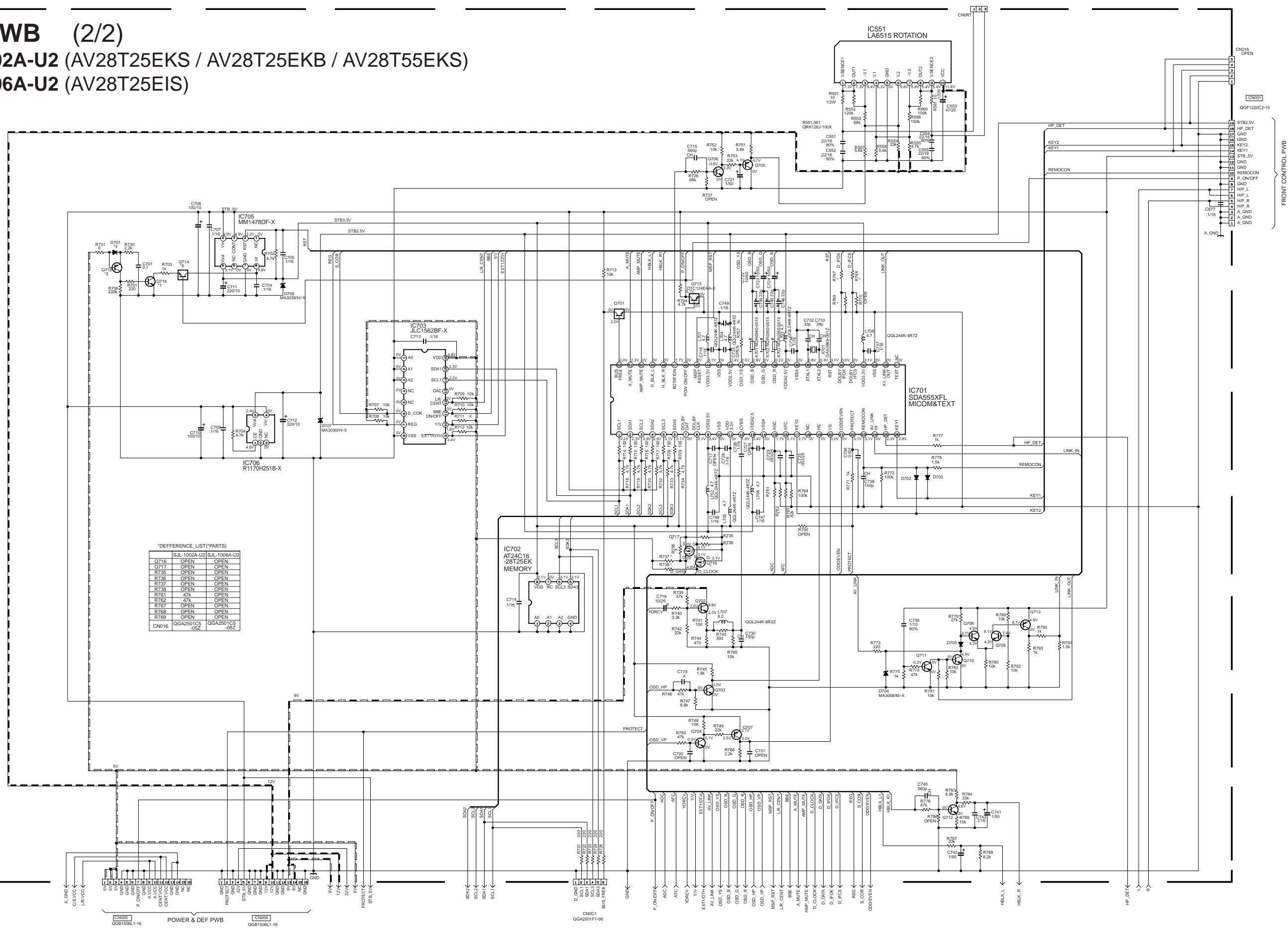
NOTE

- X OPTION(NON MOUNT)
- 8W 8M8W
- 0 NRSAG2JGR0X
- 1 25A1037AGOR-X
- 2 25A1037AGOR-X
- 3 MA111-X
- 4 MA1008A-X
- 5 DTC14EKA-X
- 6 DTA124EKA-X
- 7 25C1746GBR-1
- 8 25A933ASGR-1

MAIN PWB (2/2)

SJL-1002A-U2 (AV28T25EKS / AV28T25EKB / AV28T55EKS)

SJL-1006A-U2 (AV28T25EIS)

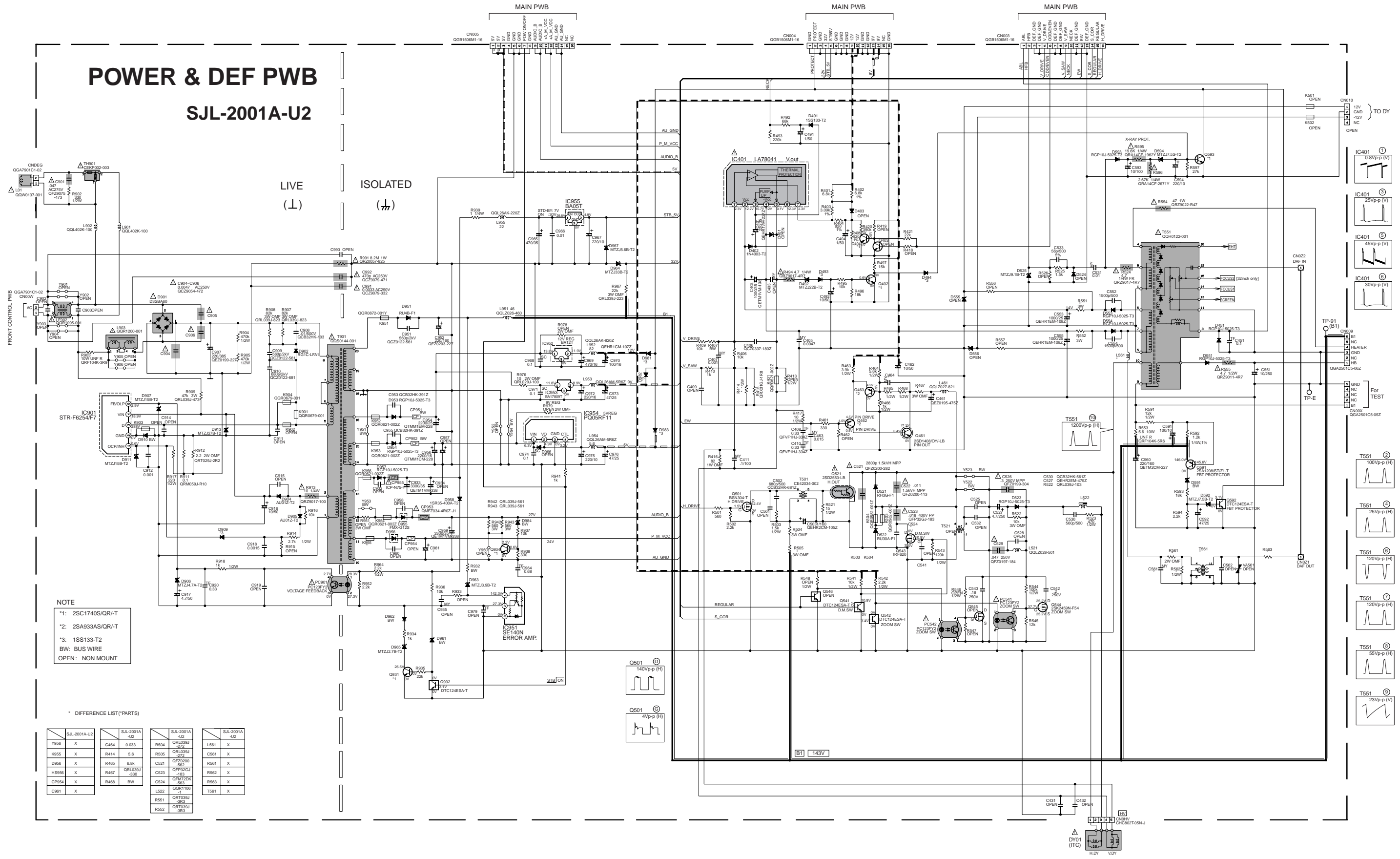


DIFFERENCE LIST (*PARTS)

	SJL-1002A-U2	SJL-1006A-U2
Q716	OPEN	OPEN
Q717	OPEN	OPEN
R735	OPEN	OPEN
R736	OPEN	OPEN
R737	OPEN	OPEN
R738	OPEN	OPEN
R761	47k	OPEN
R762	47k	OPEN
R767	OPEN	OPEN
R788	OPEN	OPEN
R789	OPEN	OPEN
CN016	QGA2501CS -05Z	QGA2501CS -05Z

- NOTE
- X : OPTION(NON MOUNT)
 - 8W : IM-8W
 - 0 : NRSAG3JGR0X
 - 1 : 2SC2412QGR-X
 - 2 : 2SA1037AKGR-X
 - 3 : MA111X
 - 4 : MA3100M-X
 - 5 : DTC124EKA-X
 - 6 : DTA124EKA-X
 - 7 : 2SC1740SQR-T
 - 8 : 2SA933ASQR-T

POWER & DEF PWB
SJL-2001A-U2



LIVE (⊥)
ISOLATED (≡)

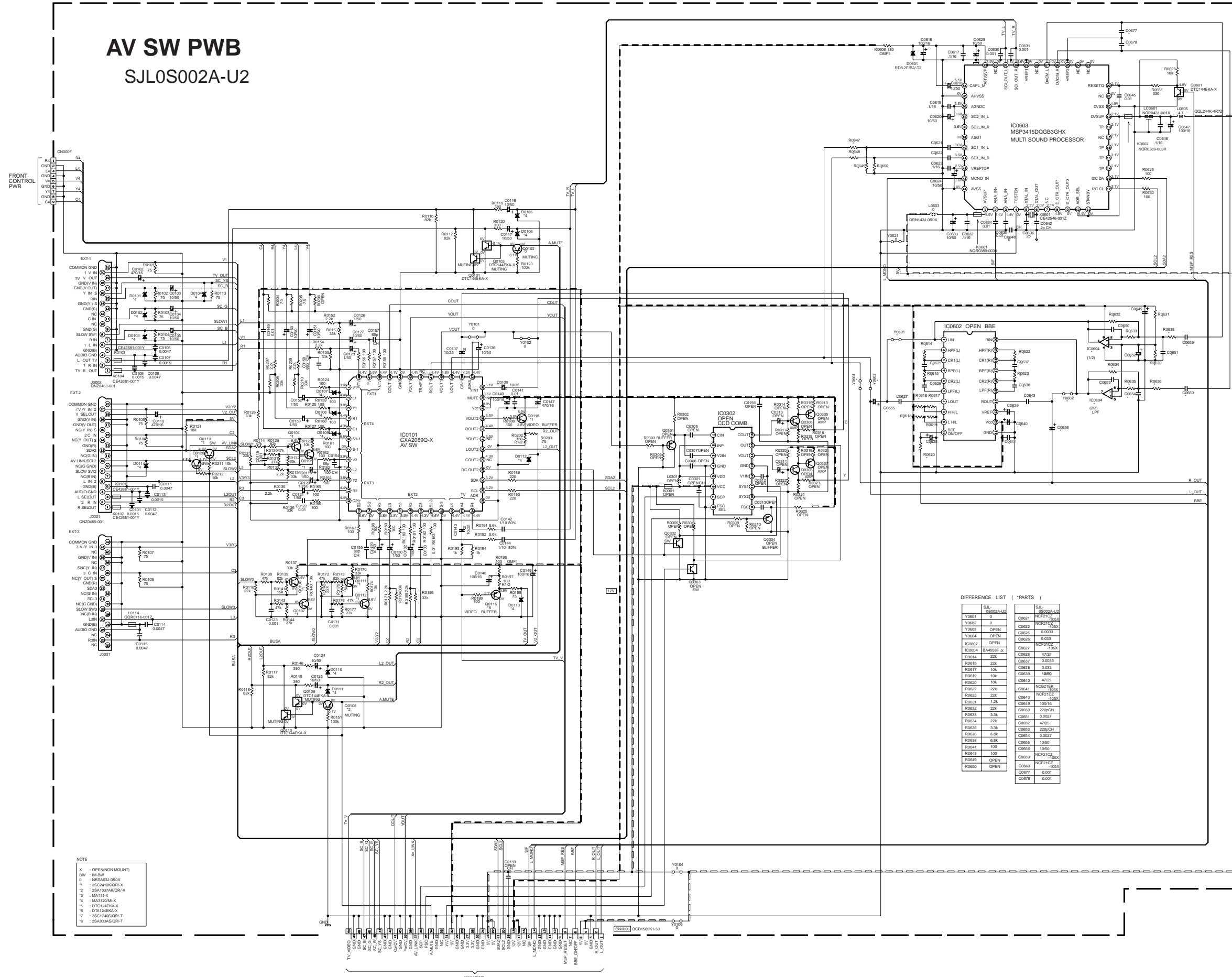
NOTE
*1: 2SC1740S/QR/T
*2: 2SA933AS/QR/T
*3: 1SS133-T2
BW: BUS WIRE
OPEN: NON MOUNT

DIFFERENCE LIST(*PARTS)

S.JL-2001A-U2	S.JL-2001A-U2	S.JL-2001A-U2	S.JL-2001A-U2
Y956 X	C484 0.033	R504 QRL039J-27Z	L561 X
K955 X	R414 5.6	R505 QRL039J-27Z	C561 X
D556 X	R465 6.8k	C521 QFZ0200-56Z	R561 X
H5956 X	R467 QRL039J-33Z	C523 QFZ0200-56Z	R562 X
CP954 X	R468 BW	C524 QFZ0200-56Z	R563 X
CM91 X		L522 QOR1108	T561 X
		R551 QRT039J-3R3	
		R552 QRT039J-3R3	

- IC401 ① 0.8Vp-p (V)
- IC401 ② 25Vp-p (V)
- IC401 ③ 45Vp-p (V)
- IC401 ④ 30Vp-p (V)
- T551 ⑤ 1200Vp-p (H)
- T551 ⑥ 100Vp-p (H)
- T551 ⑦ 25Vp-p (H)
- T551 ⑧ 120Vp-p (H)
- T551 ⑨ 120Vp-p (H)
- T551 ⑩ 55Vp-p (H)
- T551 ⑪ 23Vp-p (V)

AV SW PWB
SJLOS002A-U2

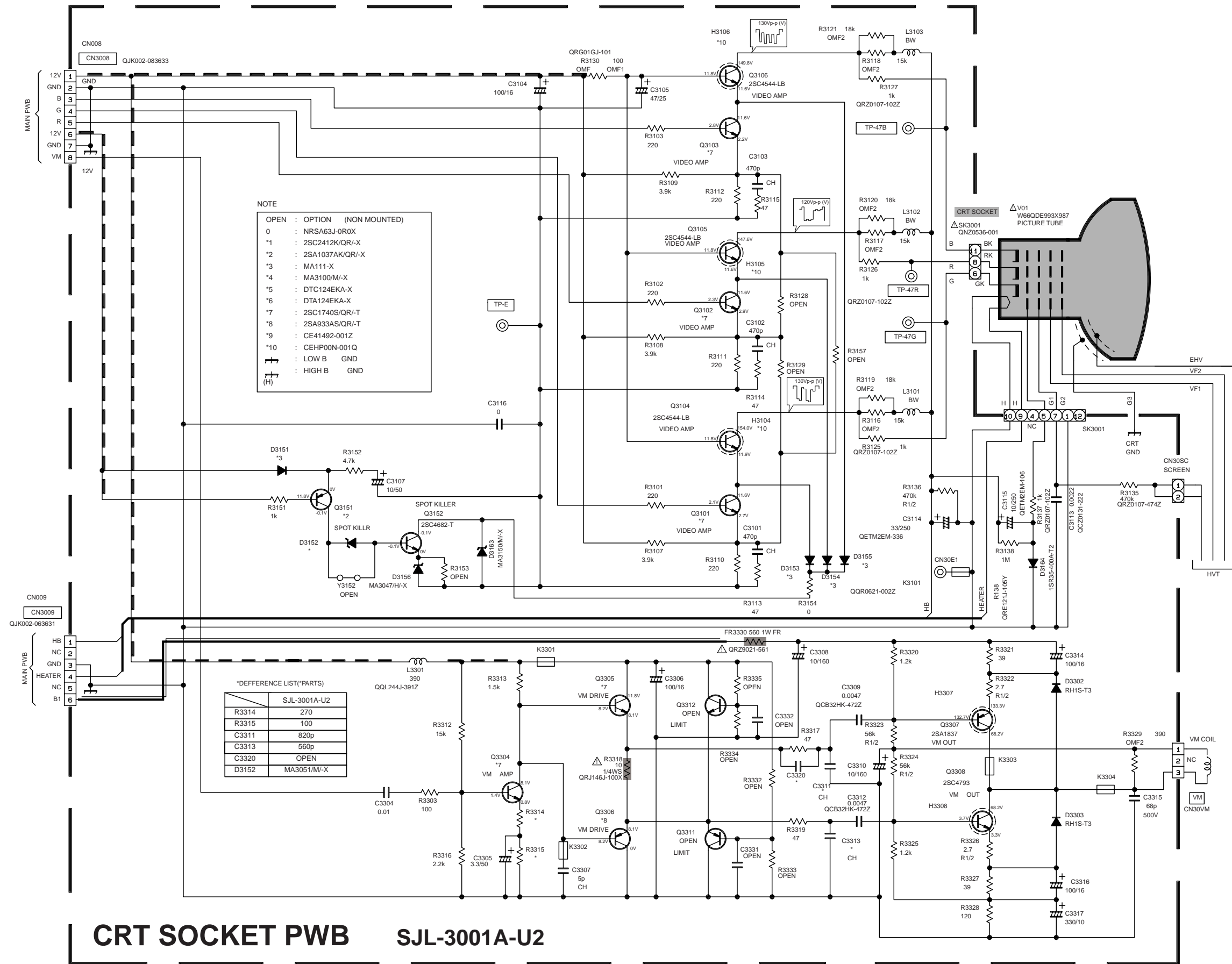


DIFFERENCE LIST (PARTS)

S/L	QTY	REF	DESCRIPTION	S/L	QTY	REF	DESCRIPTION
Y0601	0		NC	C0621	1		10K
Y0602	0		NC	C0622	1		10K
Y0603	OPEN		NC	C0623	1		10K
Y0604	OPEN		NC	C0624	1		10K
IC0602	OPEN		NC	C0625	1		10K
IC0603	BA4558P x		OPAMP	C0626	1		10K
R0614	22K		RES	C0627	1		10K
R0615	22K		RES	C0628	1		10K
R0616	10K		RES	C0629	1		10K
R0617	10K		RES	C0630	1		10K
R0618	10K		RES	C0631	1		10K
R0619	10K		RES	C0632	1		10K
R0620	10K		RES	C0633	1		10K
R0621	22K		RES	C0634	1		10K
R0622	22K		RES	C0635	1		10K
R0623	22K		RES	C0636	1		10K
R0624	1.2K		RES	C0637	1		10K
R0625	22K		RES	C0638	1		10K
R0626	22K		RES	C0639	1		10K
R0627	22K		RES	C0640	1		10K
R0628	22K		RES	C0641	1		10K
R0629	22K		RES	C0642	1		10K
R0630	22K		RES	C0643	1		10K
R0631	22K		RES	C0644	1		10K
R0632	22K		RES	C0645	1		10K
R0633	22K		RES	C0646	1		10K
R0634	22K		RES	C0647	1		10K
R0635	22K		RES	C0648	1		10K
R0636	22K		RES	C0649	1		10K
R0637	22K		RES	C0650	1		10K
R0638	22K		RES	C0651	1		10K
R0639	22K		RES	C0652	1		10K
R0640	22K		RES	C0653	1		10K
R0641	22K		RES	C0654	1		10K
R0642	22K		RES	C0655	1		10K
R0643	22K		RES	C0656	1		10K
R0644	22K		RES	C0657	1		10K
R0645	22K		RES	C0658	1		10K
R0646	22K		RES	C0659	1		10K
R0647	22K		RES	C0660	1		10K
R0648	22K		RES	C0661	1		10K
R0649	22K		RES	C0662	1		10K
R0650	22K		RES	C0663	1		10K

NOTE
X - OPENION MOUNT
BW - 1M BW
D - 1N4148
T1 - 2SC2412GR-X
T2 - 2SA1037AKGR-X
T3 - MA111-X
T4 - MA3120M-X
T5 - DTC12NEKA-X
T6 - DTC12NEKA-X
T7 - 2SC1740SKGR-T
T8 - 2SA1037AKGR-T

CRT SOCKET PWB CIRCUIT DIAGRAM

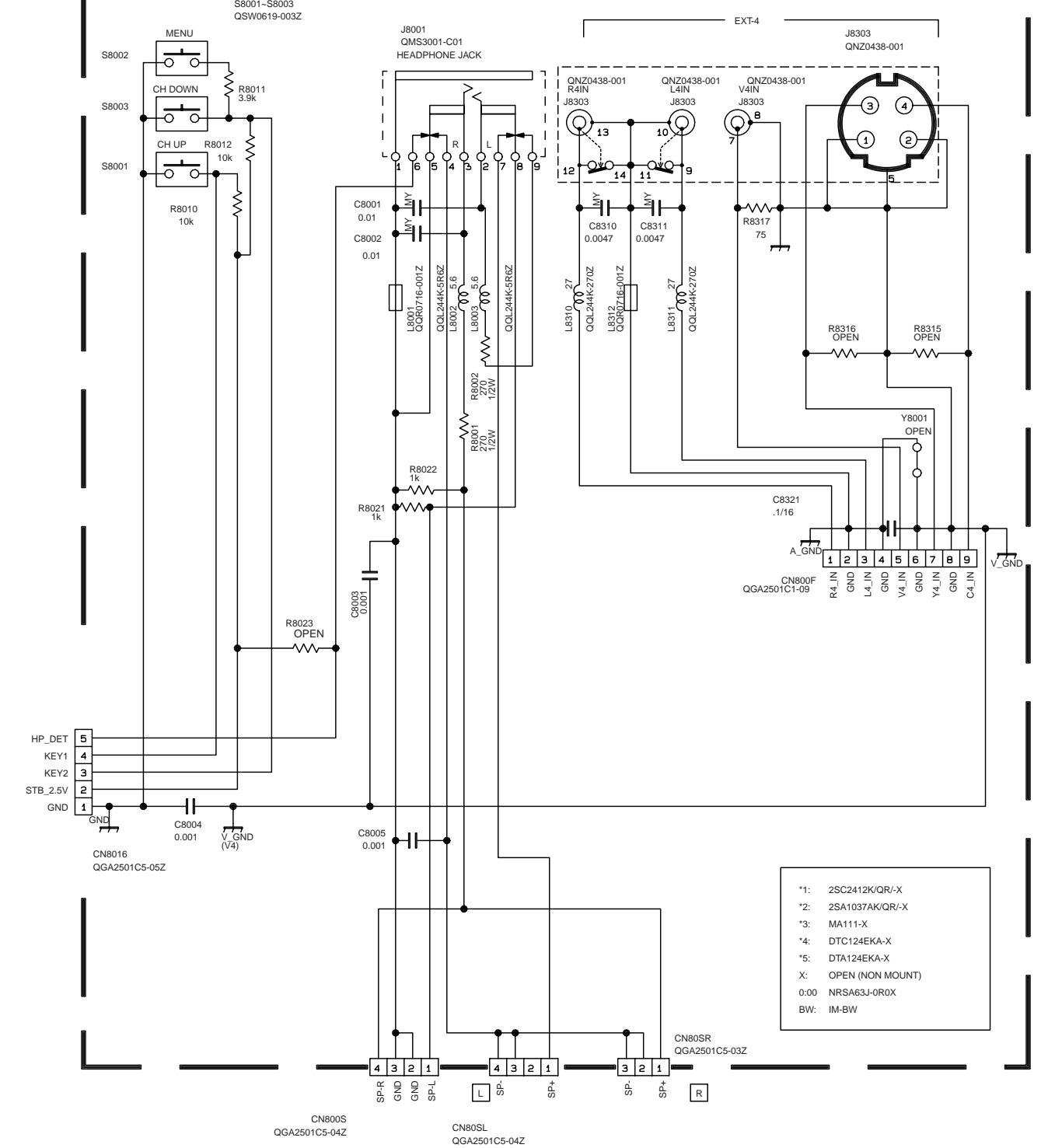
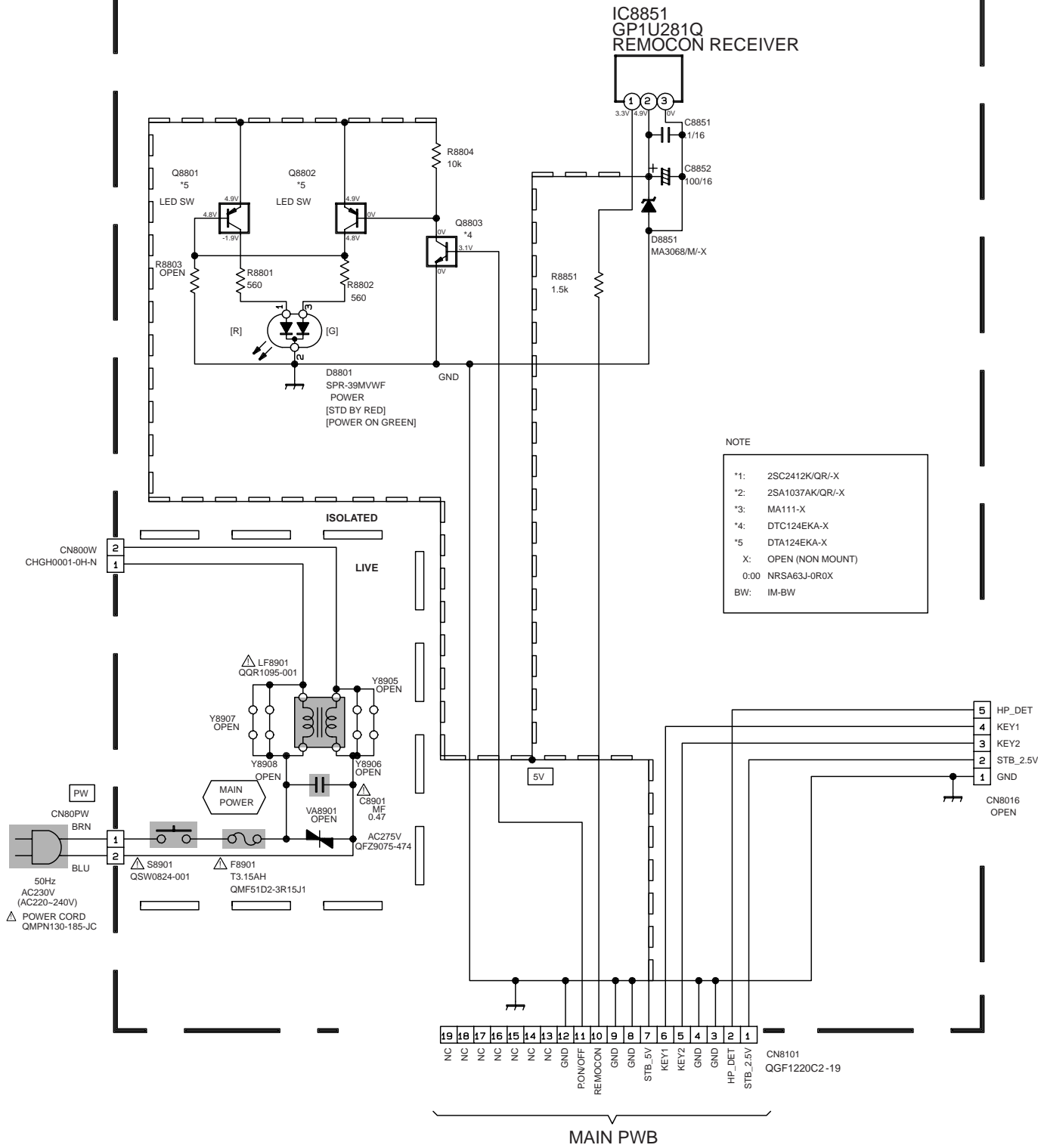


FRONT CONTROL PWB CIRCUIT DIAGRAM

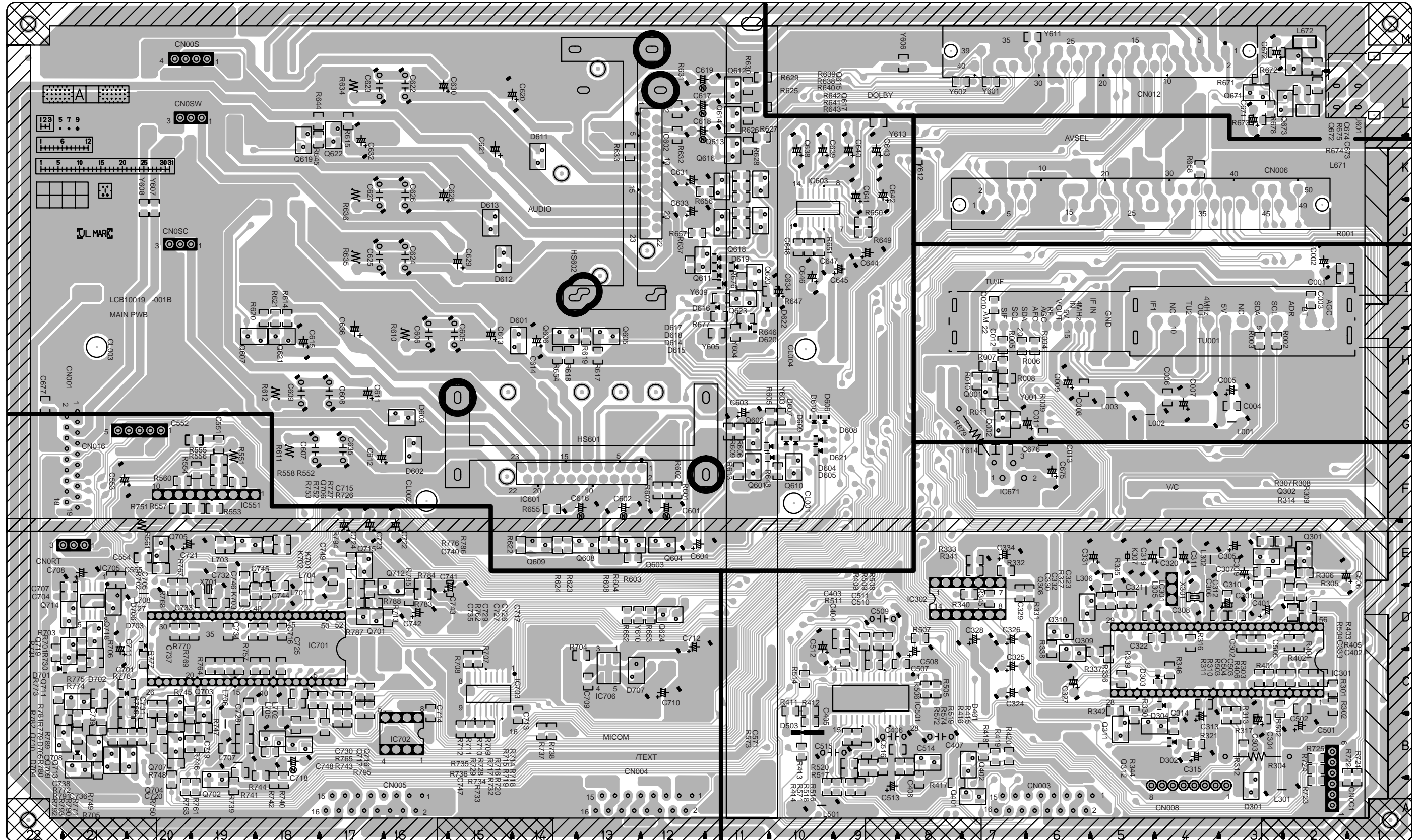
SIDE CONTROL PWB CIRCUIT DIAGRAM

FRONT CONTROL PWB
SJL-8003A-U2

SIDE CONTROL PWB
SJL-8103A-U2

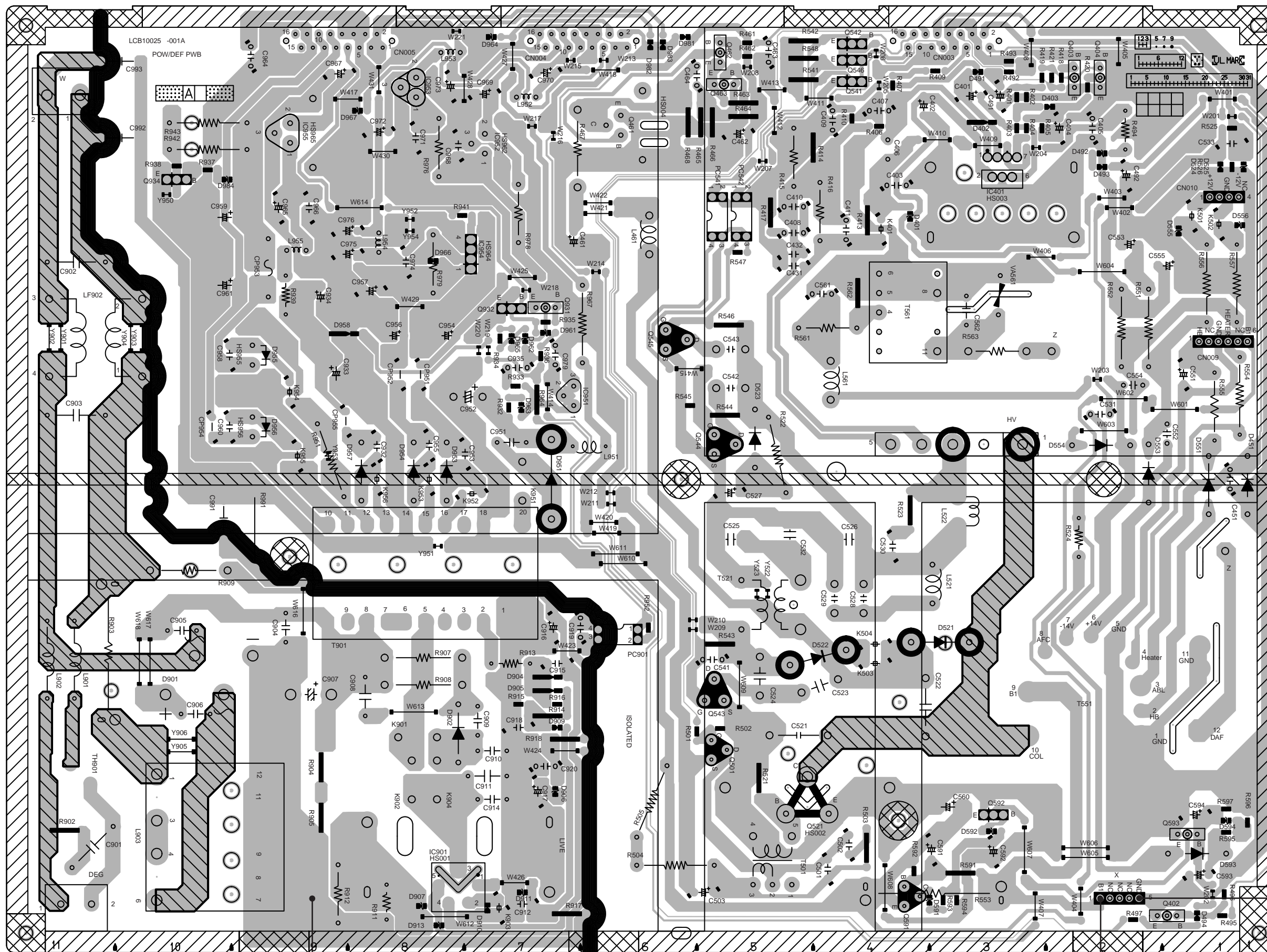


PATTERN DIAGRAMS MAIN PWB PATTERN



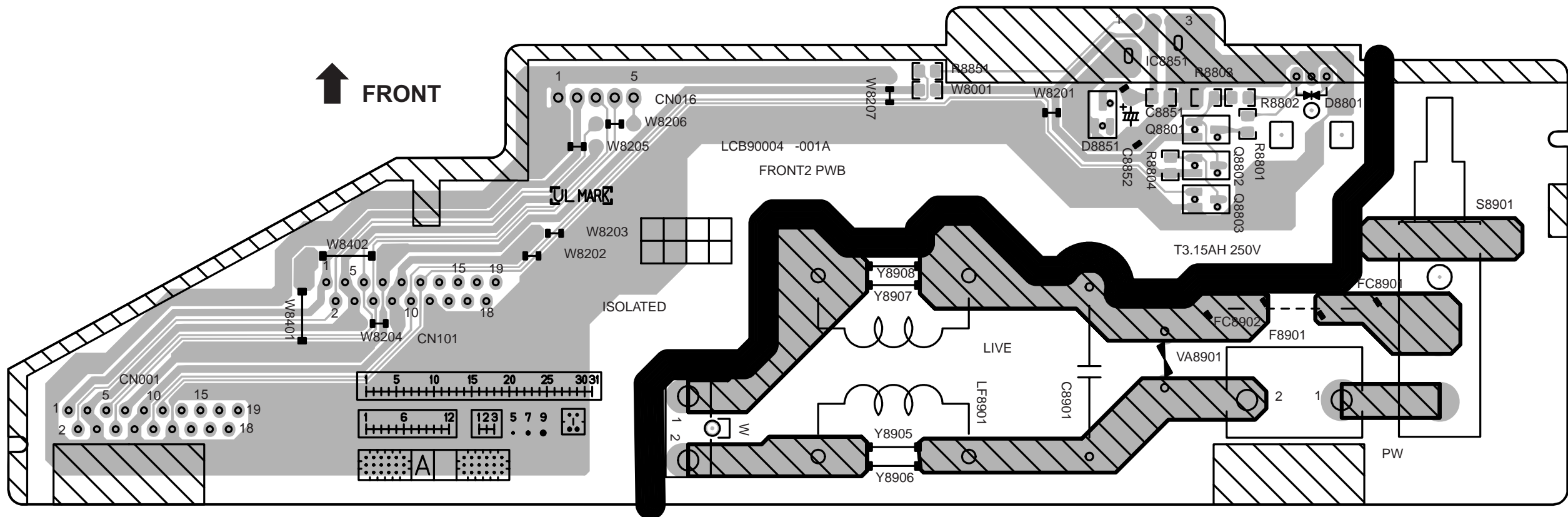
DEF POWER PWB PATTERN

FRONT



TP-E
(∇)

FRONT CONTROL PWB PATTERN



SIDE CONTROL PWB PATTERN

