

AV32S2EKGR
AV32S2EKBL
AV32S2EIGR

JVC

SCHEMATIC DIAGRAMS

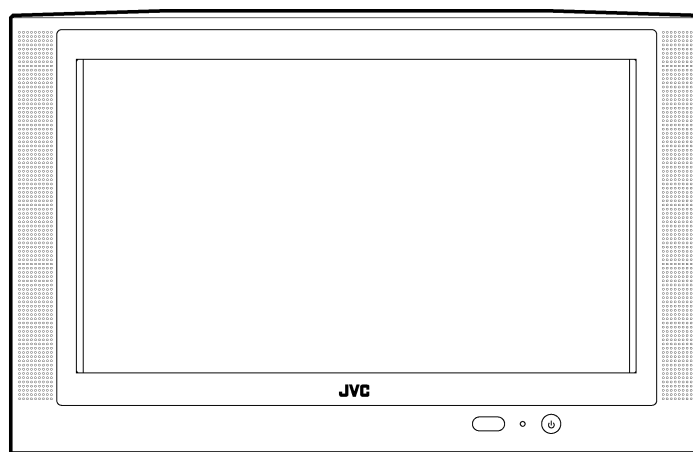
COLOUR TELEVISION

AV32S2EKGR
AV32S2EKBL
AV32S2EIGR

BASIC CHASSIS

JK

CD-ROM No.SML200104

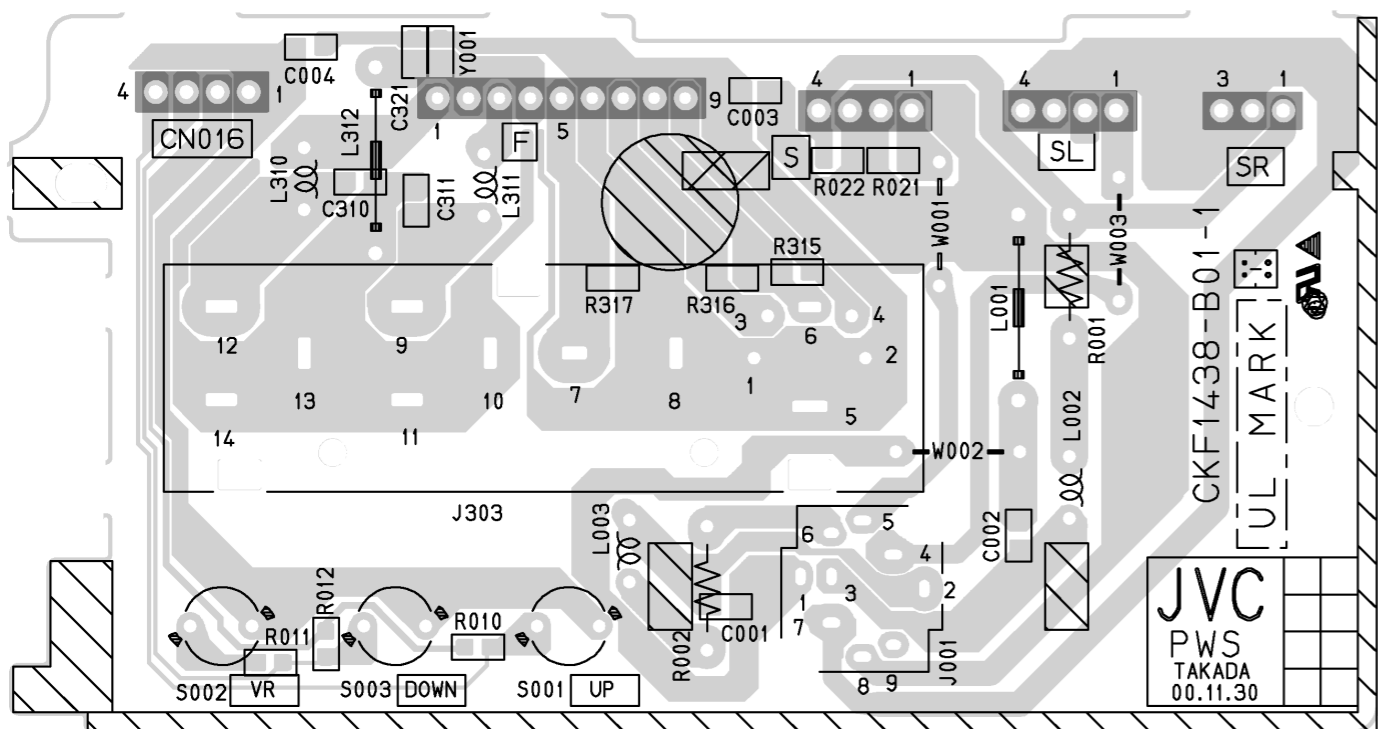


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SIDE CONTROL PWB PATTERN

TOP →



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 : PAL 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 : 1/4[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]
 - AC indicated : AC withstand voltage [V]
 - Others : DC withstand voltage [V]

*Electrolytic Capacitors
47/50[Example]: Capacitance value [μ F]/withstand voltage[V]

- Type
 - No indication : Ceramic capacitor
 - MY : Mylar 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
- : 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) (\nearrow) 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.

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SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR

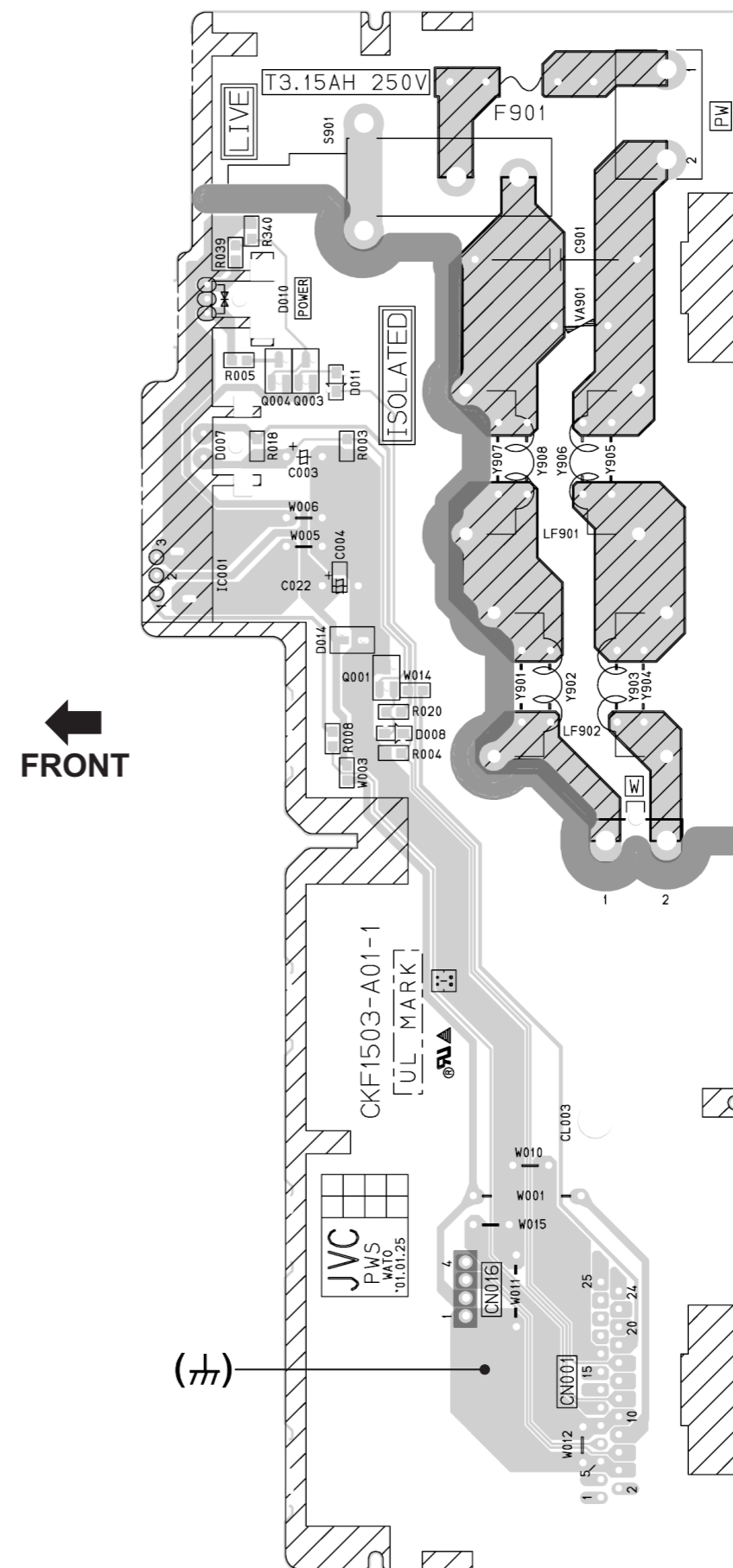
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BOTTOM VIEW	FRONT VIEW			TOP VIEW

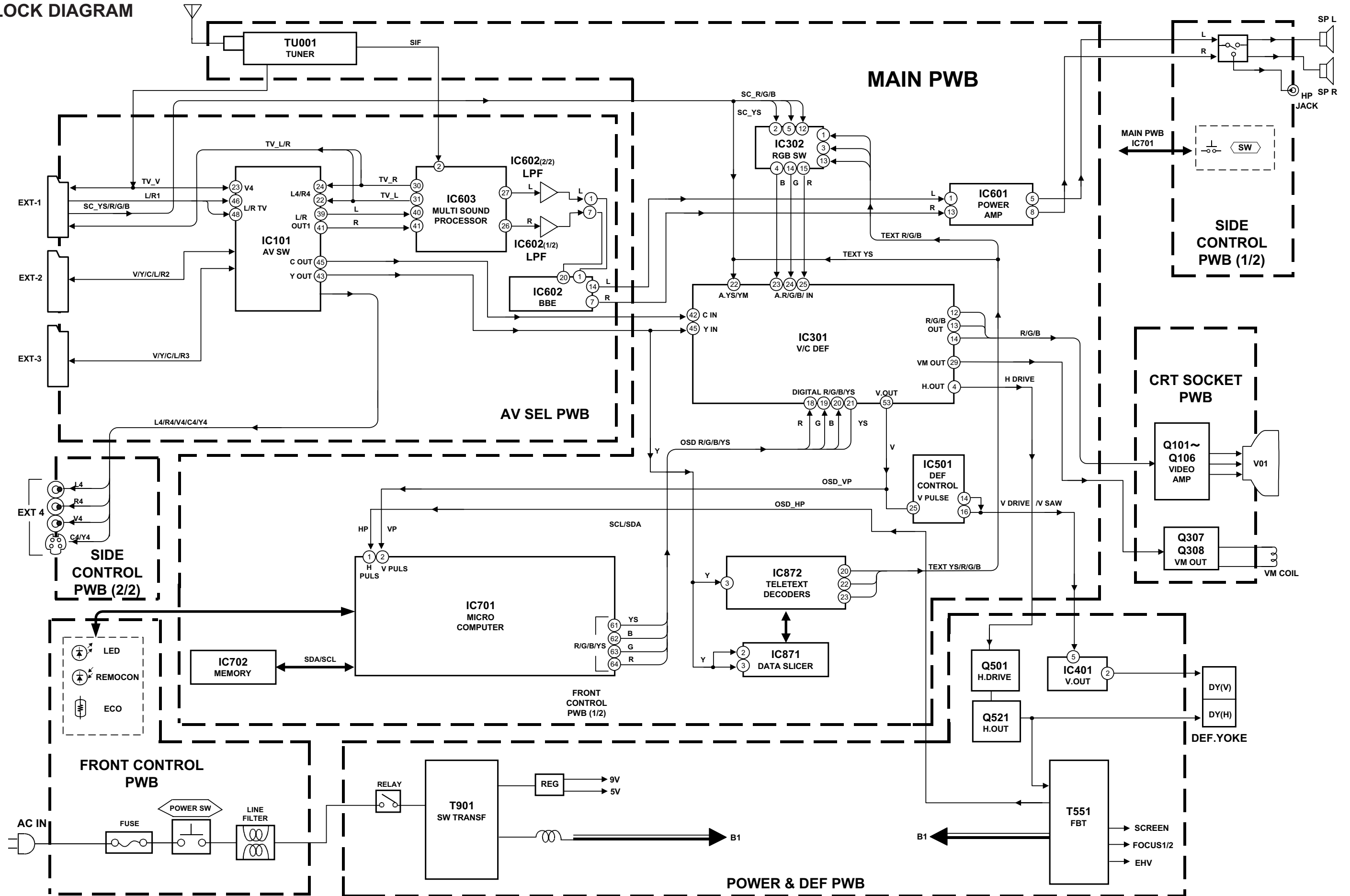
CHIP IC

TOP VIEW	

FRONT CONTROL PWB PATTERN



BLOCK DIAGRAM



CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAM

MAIN PWB ASS'Y (1/2)

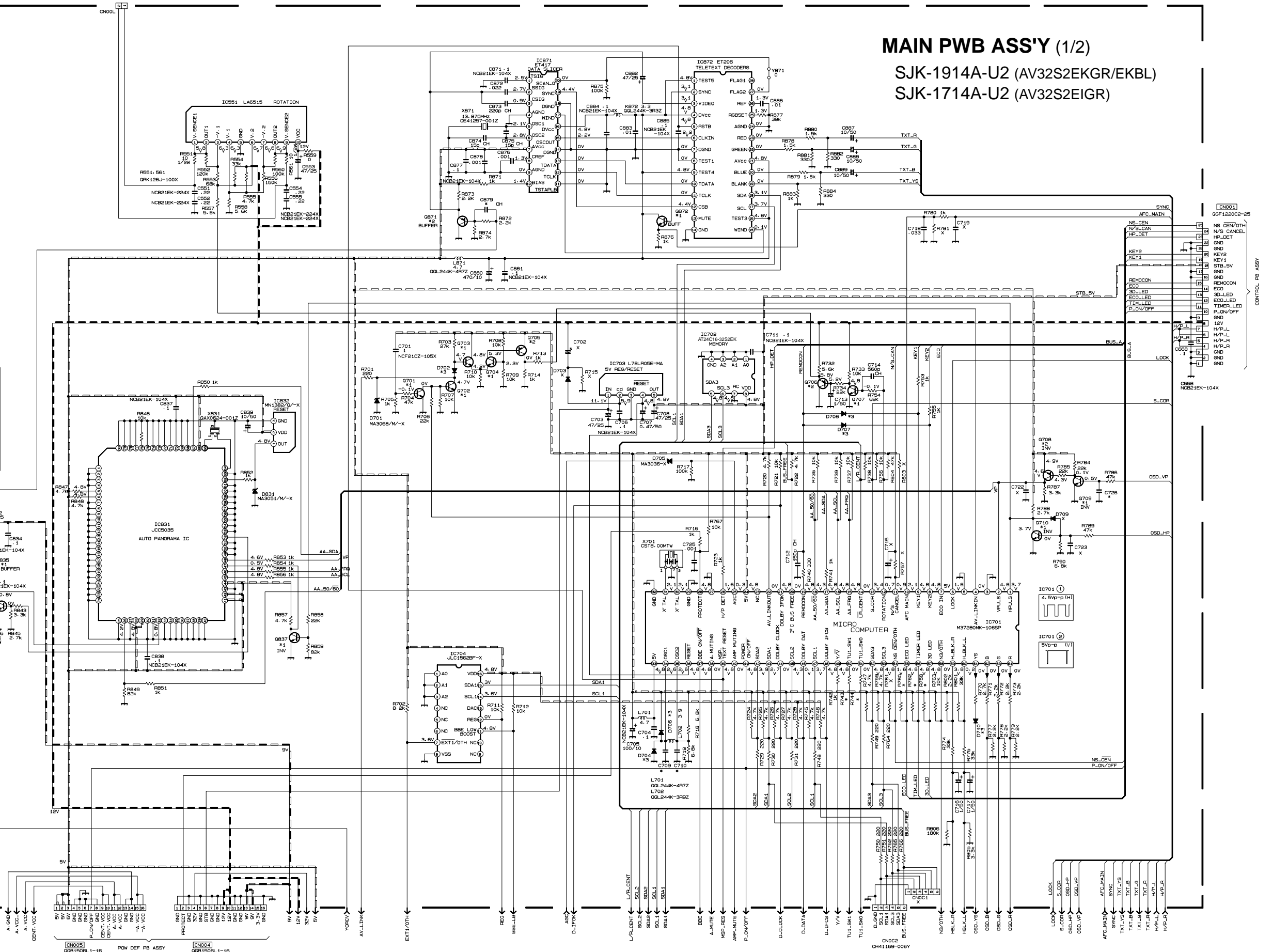
SJK-1914A-U2 (AV32S2EKGR/EKBL)
SJK-1714A-U2 (AV32S2EIGR)

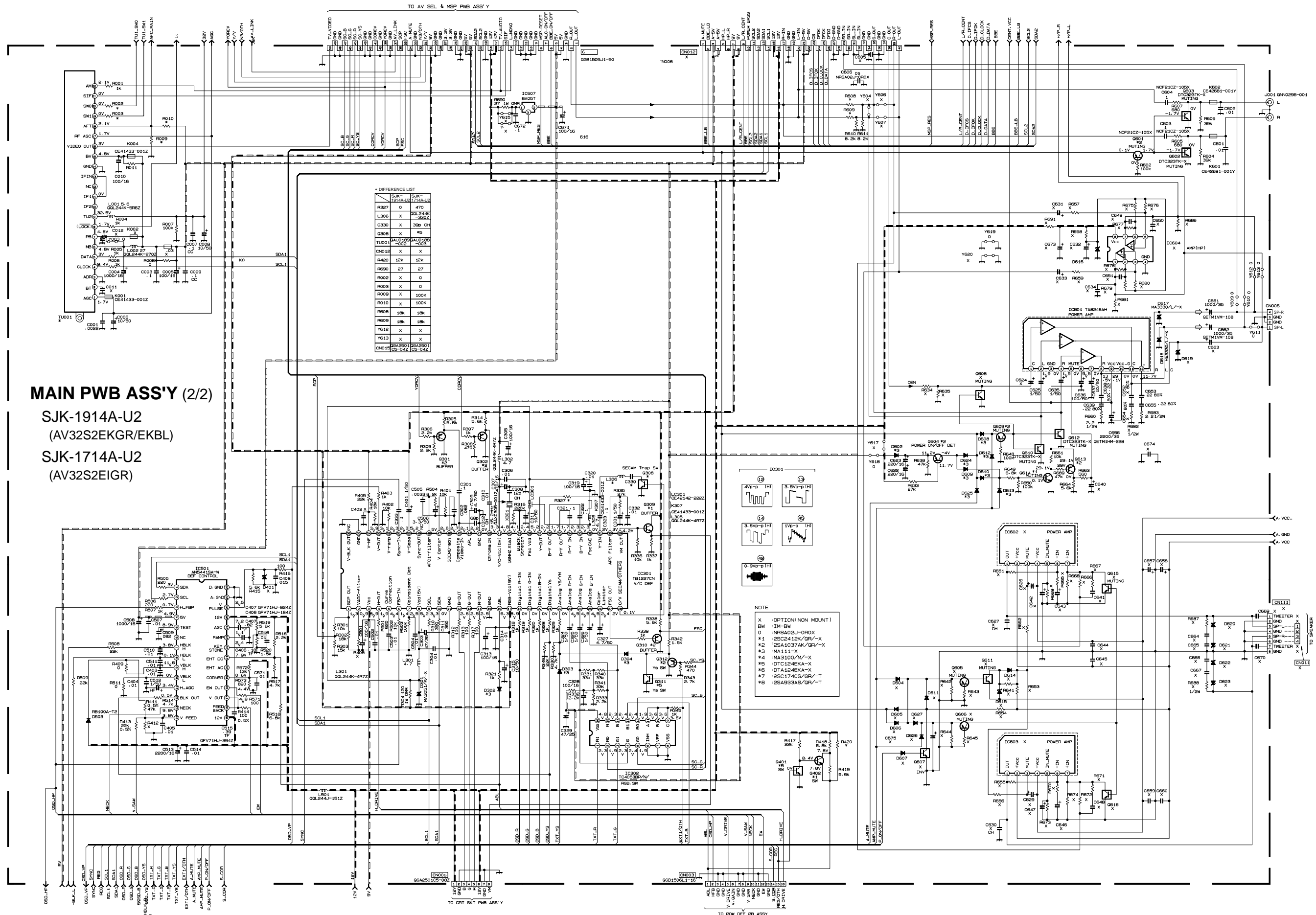
NOTE

- X :OPTION(NON MOUNT)
- BW :IM-BW
- O :NPSA02J-QROX
- *1 :2SC2412K/QR/-X
- *2 :2SA1037AK/QR/-X
- *3 :MA111-X
- *4 :MA3100/M/-X
- *5 :DTC124EKA-X
- *6 :DTA124EKA-X
- *7 :2SC1740S/QR/-T
- *8 :2SA933AS/QR/-T

* DIFFERENT LIST

	SJK-1914A-U2	SJK-1714A-U2
C879	220p	18p
R743	X	100
R744	X	100
C709	9p CH	9p CH
C710	9p CH	9p CH
C726	X	X
R758	X	X
R760	X	X
R762	X	X



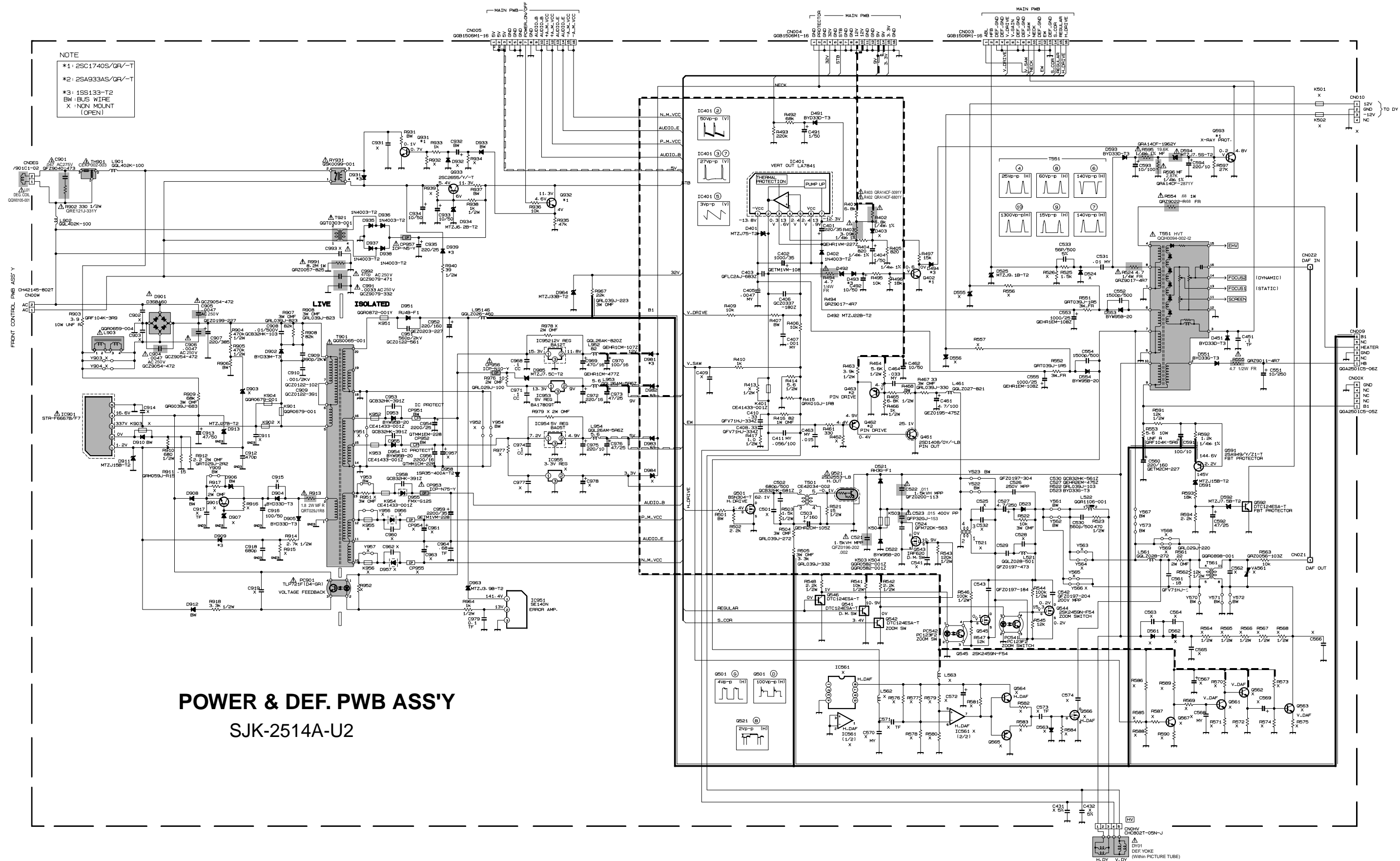


MAIN PWB ASS'Y (2/2)

SJK-1914A-U2
 (AV32S2EKGR/EKBL)

SJK-1714A-U2
 (AV32S2EIQR)

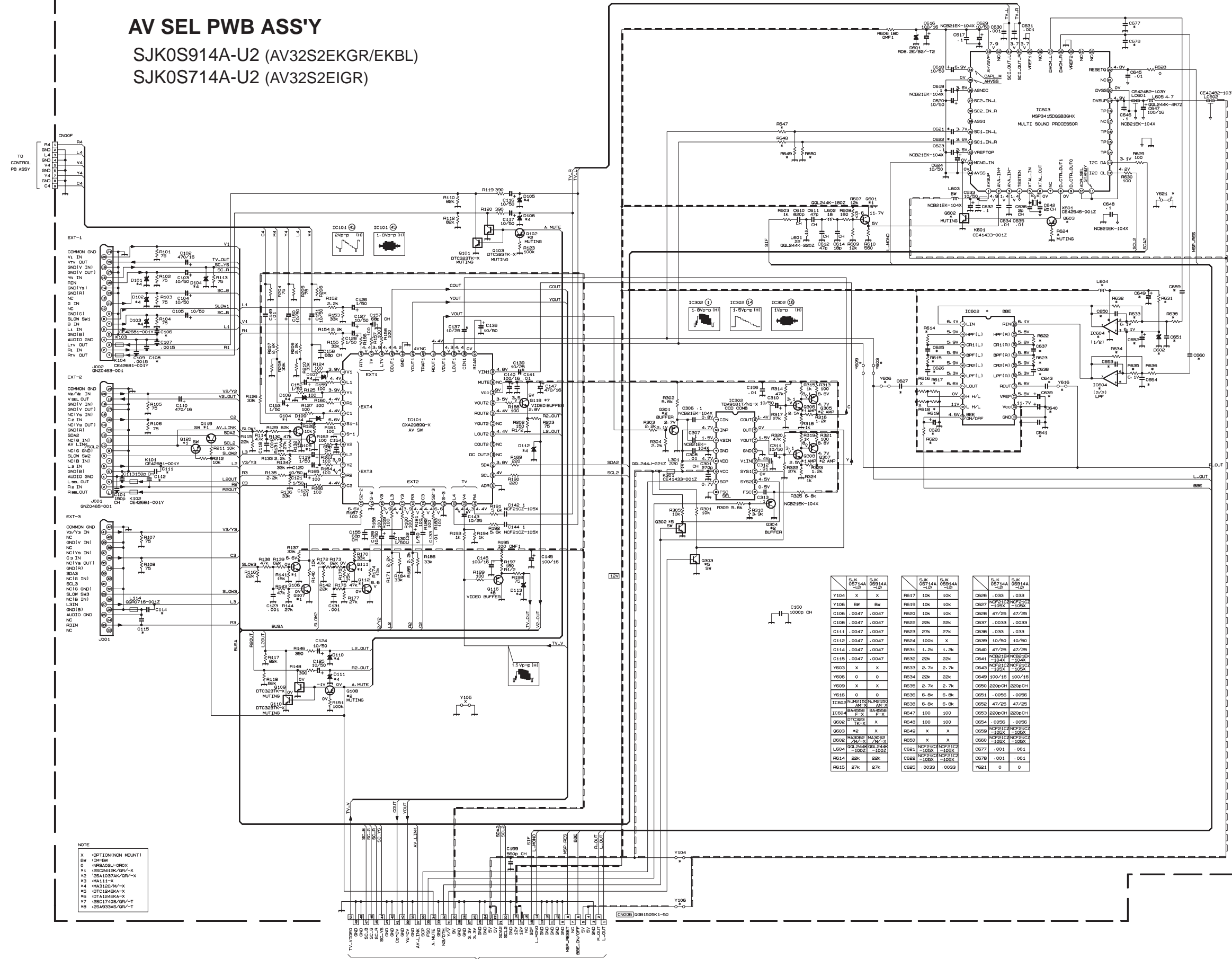
POWER & DEF PWB CIRCUIT DIAGRAM



POWER & DEF. PWB ASS'Y
SJK-2514A-U2

AV SEL. PWB CIRCUIT DIARAM

AV SEL PWB ASS'Y
SJK0S914A-U2 (AV32S2EKGR/EKBL)
SJK0S714A-U2 (AV32S2EIQR)



REF	VAL	QTY	UNIT	REF	VAL	QTY	UNIT
Y104	X	X		C626	.033	.033	
Y106	BW	BW		C627	NF2104	NF2102	
C106	.0047	.0047		C628	47/25	47/25	
C108	.0047	.0047		C629	.0033	.0033	
C111	.0047	.0047		C630	.033	.033	
C112	.0047	.0047		C631	10/50	10/50	
C114	.0047	.0047		C632	47/25	47/25	
C115	.0047	.0047		C633	NF2104	NF2102	
Y603	X	X		C634	NF2104	NF2102	
Y606	0	0		C635	100/16	100/16	
Y609	X	X		C636	2000CH	2000CH	
Y616	0	0		C637	6.8k	6.8k	
IC600	N42150	N42150		C638	47/25	47/25	
IC601	BA4558	BA4558		C639	2000CH	2000CH	
IC602	DTCS33	X		C640	.0056	.0056	
IC603	MA3052	MA3052		C641	47/25	47/25	
IC604	MA3052	MA3052		C642	2000CH	2000CH	
IC605	MA3052	MA3052		C643	47/25	47/25	
LED4	GL244K	GL244K		C644	2000CH	2000CH	
LED4	GL244K	GL244K		C645	.0056	.0056	
RE14	20k	20k		C646	47/25	47/25	
RE15	27k	27k		C647	.001	.001	
				C648	.001	.001	
				Y621	0	0	

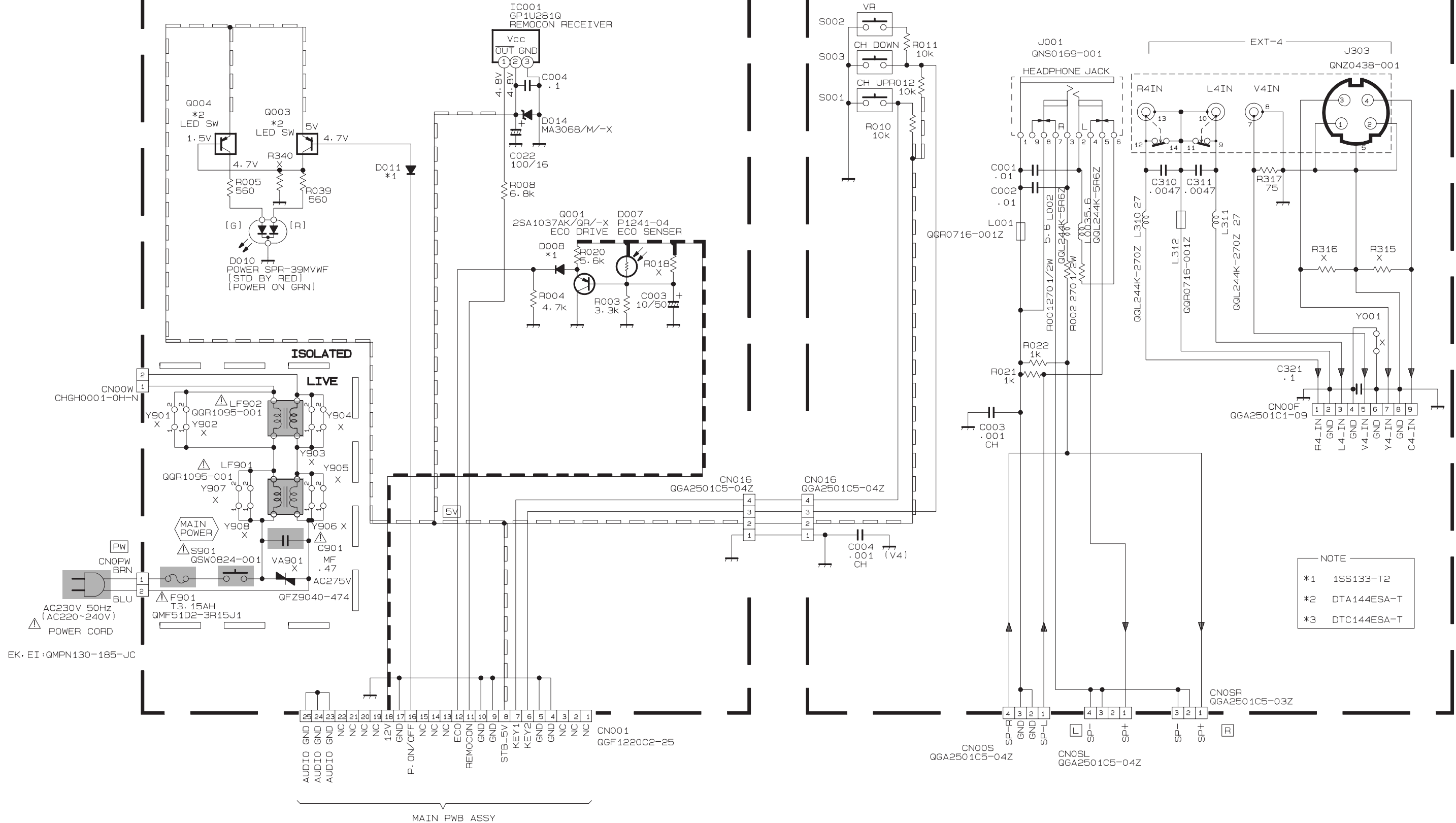
NOTE
X (OPTION/NON MOUNT)
BW 1M-BW
0 NREAG2U-OR0X
#1 2SC243K/GR-V-X
#2 2SA1037AK/GR-V-X
#3 MA111-X
#4 MA150/AV-X
#5 DTC124DA-X
#6 DTA124DA-X
#7 2SC1740S/GR-T
#8 2SA933AS/GR-T

FRONT CONTROL PWB CIRCUIT DIAGRAM

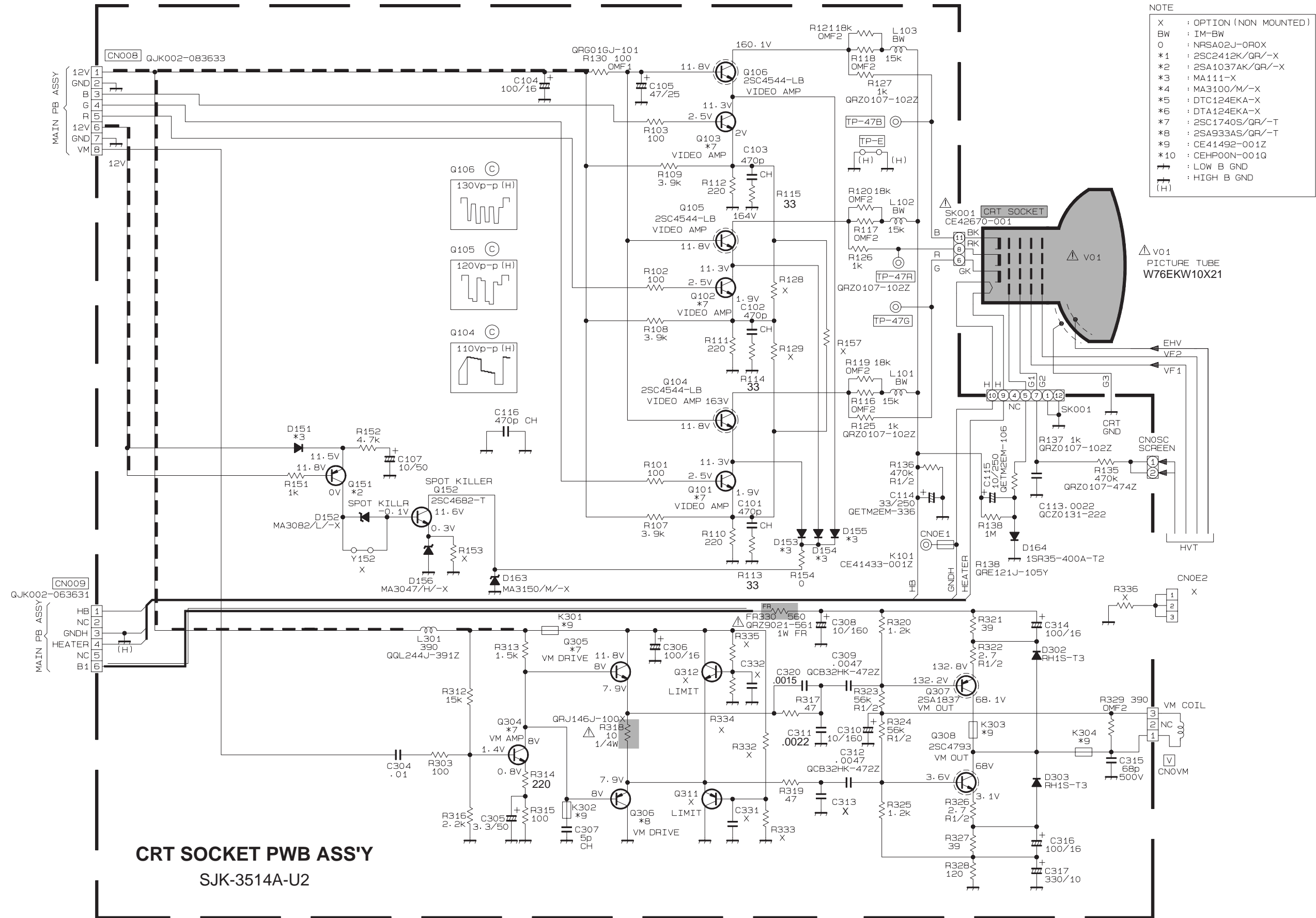
SIDE CONTROL PWB CIRCUIT DIAGRAM

FRONT CTRL PWB ASS'Y
SJK-8514A-U2

SIDE CTRL PWB ASS'Y
SJK-8551A-U2



CRT SOCKET PWB CIRCUIT DIAGRAM



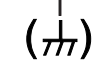
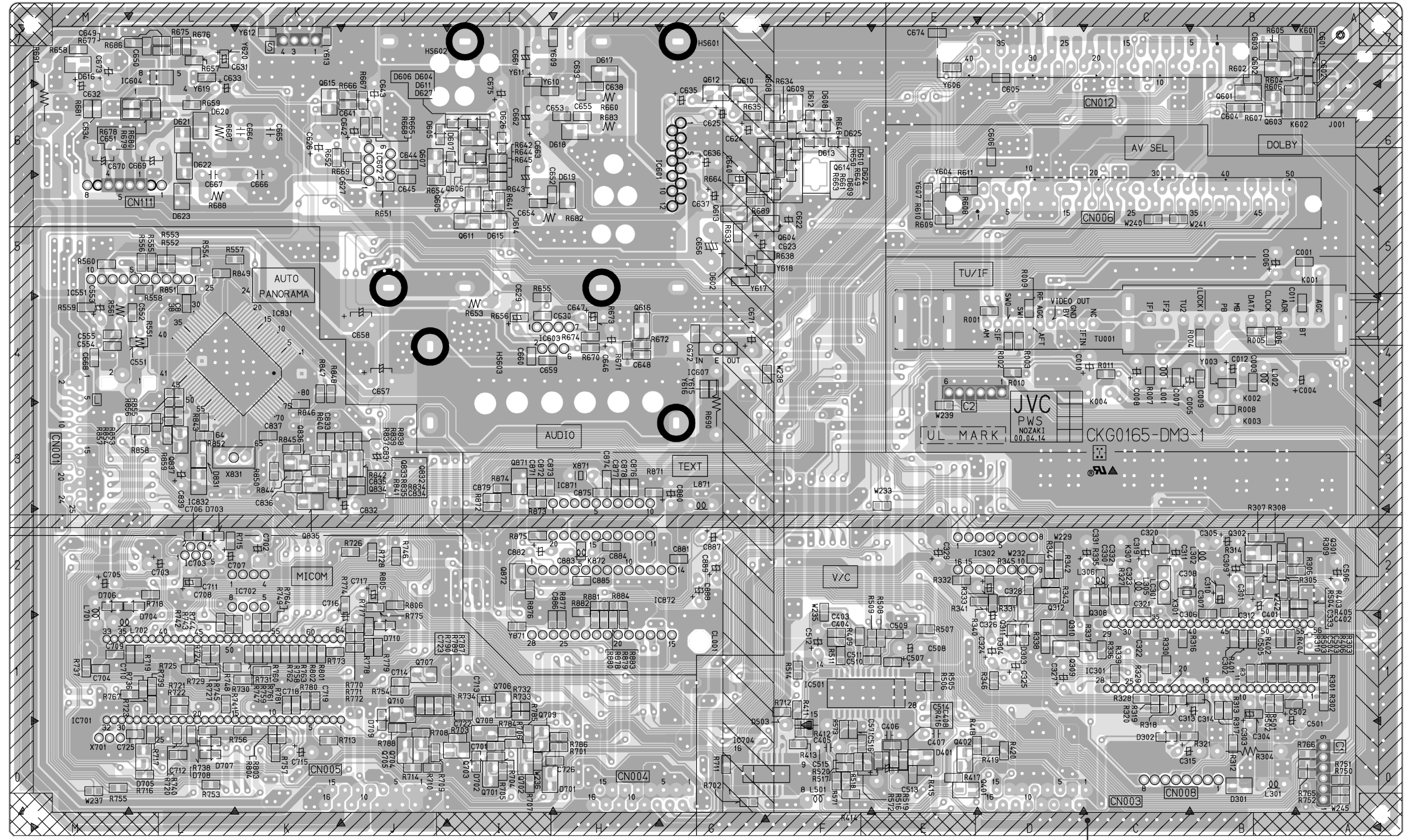
- NOTE
- X : OPTION (NON MOUNTED)
 - BW : IM-BW
 - 0 : NRSA02J-0R0X
 - *1 : 2SC2412K/QR/-X
 - *2 : 2SA1037AK/QR/-X
 - *3 : MA111-X
 - *4 : MA3100/M/-X
 - *5 : DTC124EKA-X
 - *6 : DTA124EKA-X
 - *7 : 2SC1740S/QR/-T
 - *8 : 2SA933AS/QR/-T
 - *9 : CE41492-001Z
 - *10 : CEHP00N-001Q
 - ⏏ : LOW B GND
 - (H) : HIGH B GND

CRT SOCKET PWB ASS'Y
SJK-3514A-U2

AV32S2EKGR
AV32S2EKBL
AV32S2EIGR

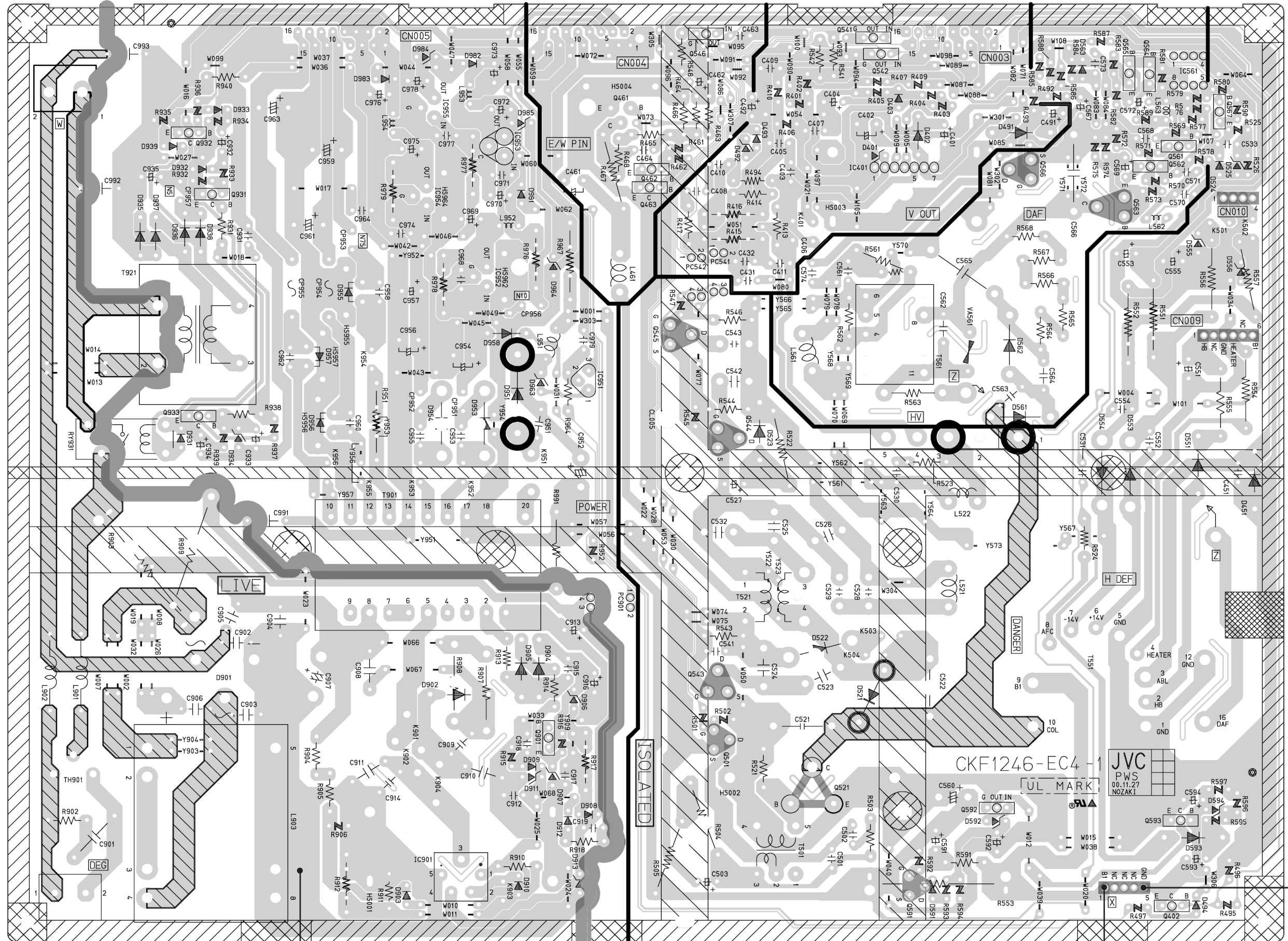
AV32S2EKGR
AV32S2EKBL
AV32S2EIGR

PATTERN DIAGRAMS
MAIN PWB PATTERN

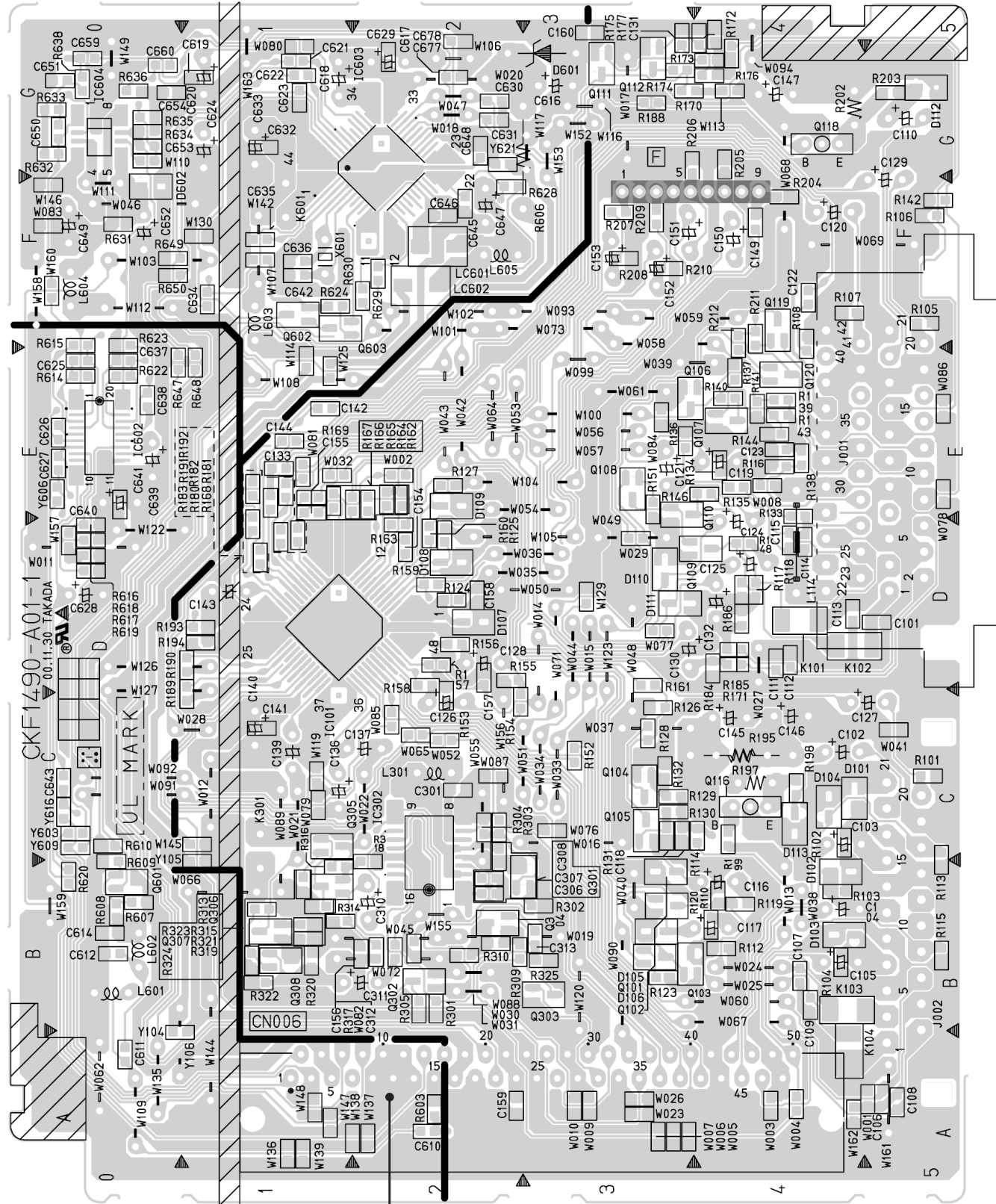


POWER & DEF PWB PATTERN

FRONT

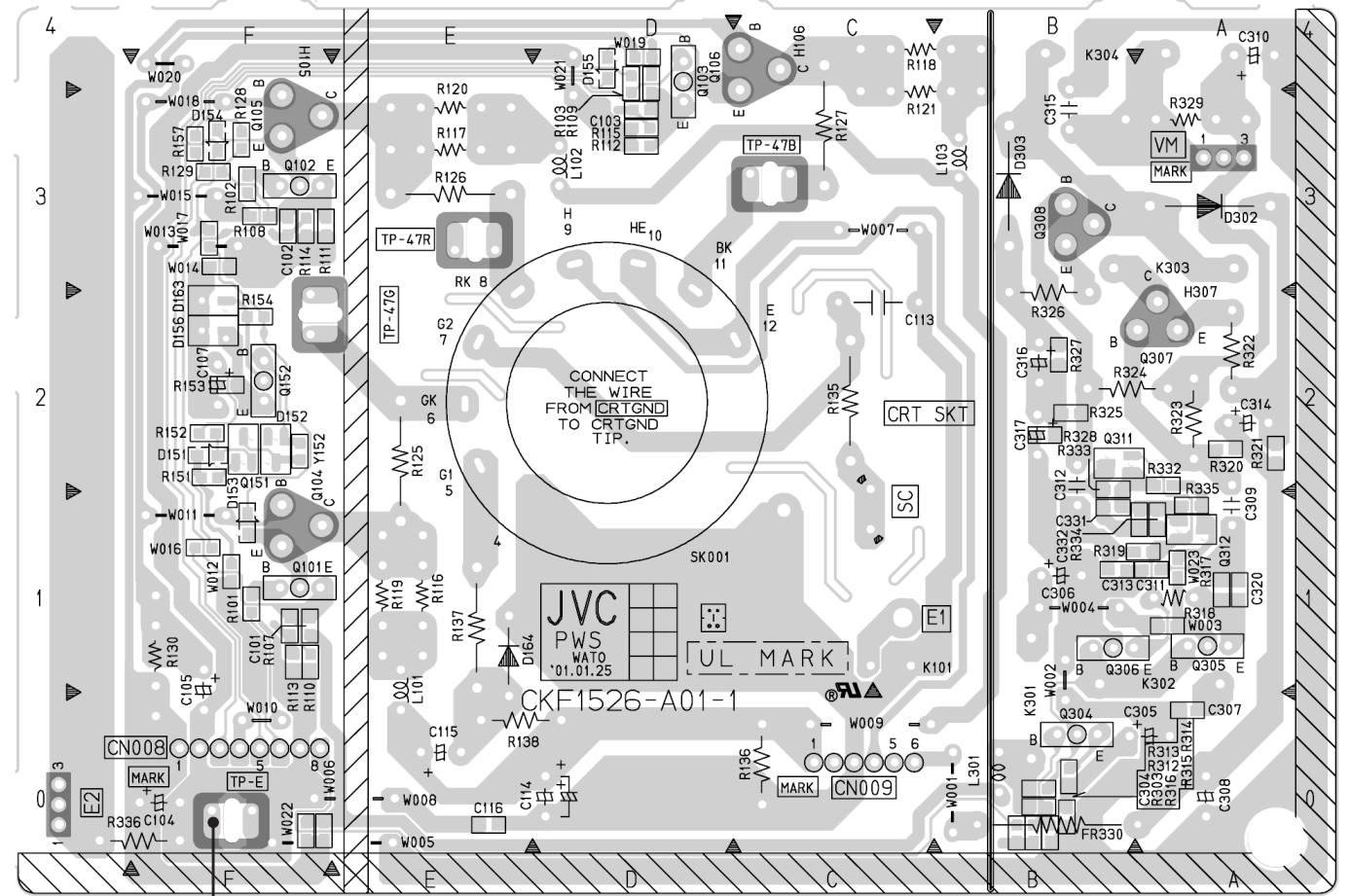


AV SEL. PWB PATTERN



AV32S2EKGR
AV32S2EKBL
AV32S2EIGR

CRT SOCKET PWB PATTERN





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