JVC

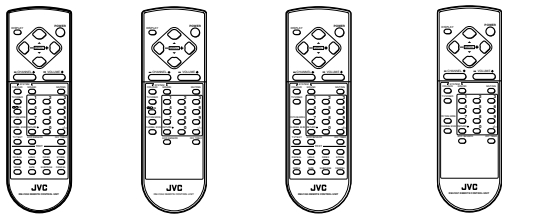
SCHEMATIC DIAGRAMS

COLOUR TELEVISION

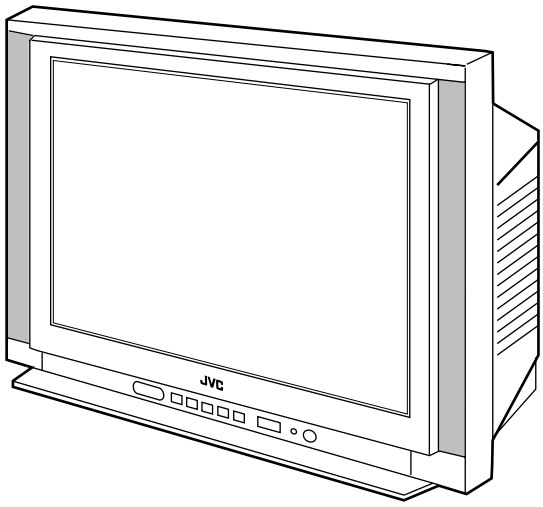
BASIC CHASSIS
CH

AV-21LS AV-21LX
AV-21LS(-AU) AV-21LX(-A)
AV-21LH AV-2108TEE

CD-ROM No. SML200107



RM-C352-1C [AV-21LS] [AV-21LS(-AU)]
RM-C353-1C [AV-21LH]
RM-C355-1C [AV-2108TEE]
RM-C357-1C [AV-21LX] [AV-21LX(-A)]



No. 51849
Jul. 2001

AV-21LS AV-21LX
AV-21LS(-AU) AV-21LX(-A)
AV-21LH AV-2108TEE
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	: [kΩ]
M	: [MΩ]

● 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	: Non-Flammable 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]
AC indicated	: AC withstand voltage [V]
Others	: DC withstand voltage [V]

∗ Electrolytic Capacitors
47/50[Example] : Capacitance value [μF]/withstand voltage[V]

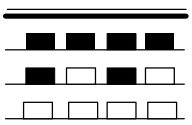
● Type

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	: [μH]
Others	: As specified

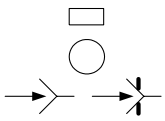
(4) Power Supply



∗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 (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

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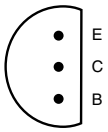
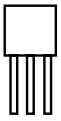
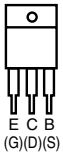
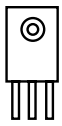
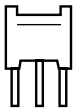
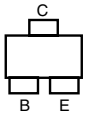
					CHIP TR 

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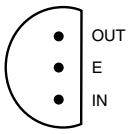
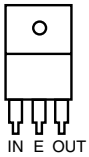
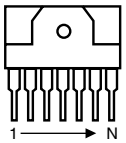
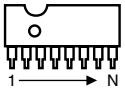
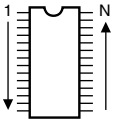
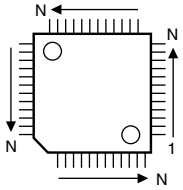
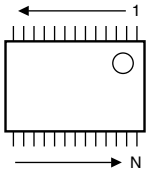
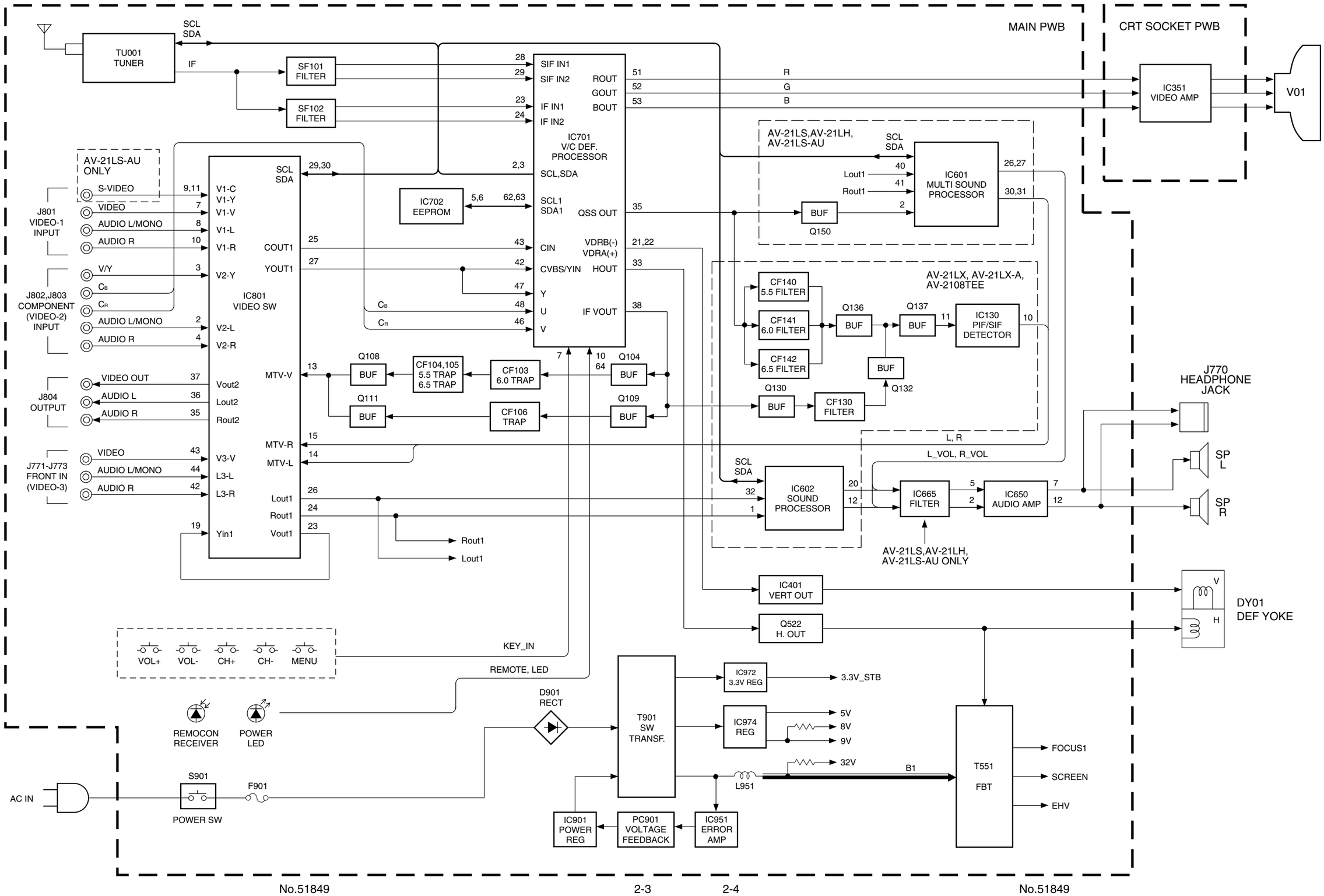
BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

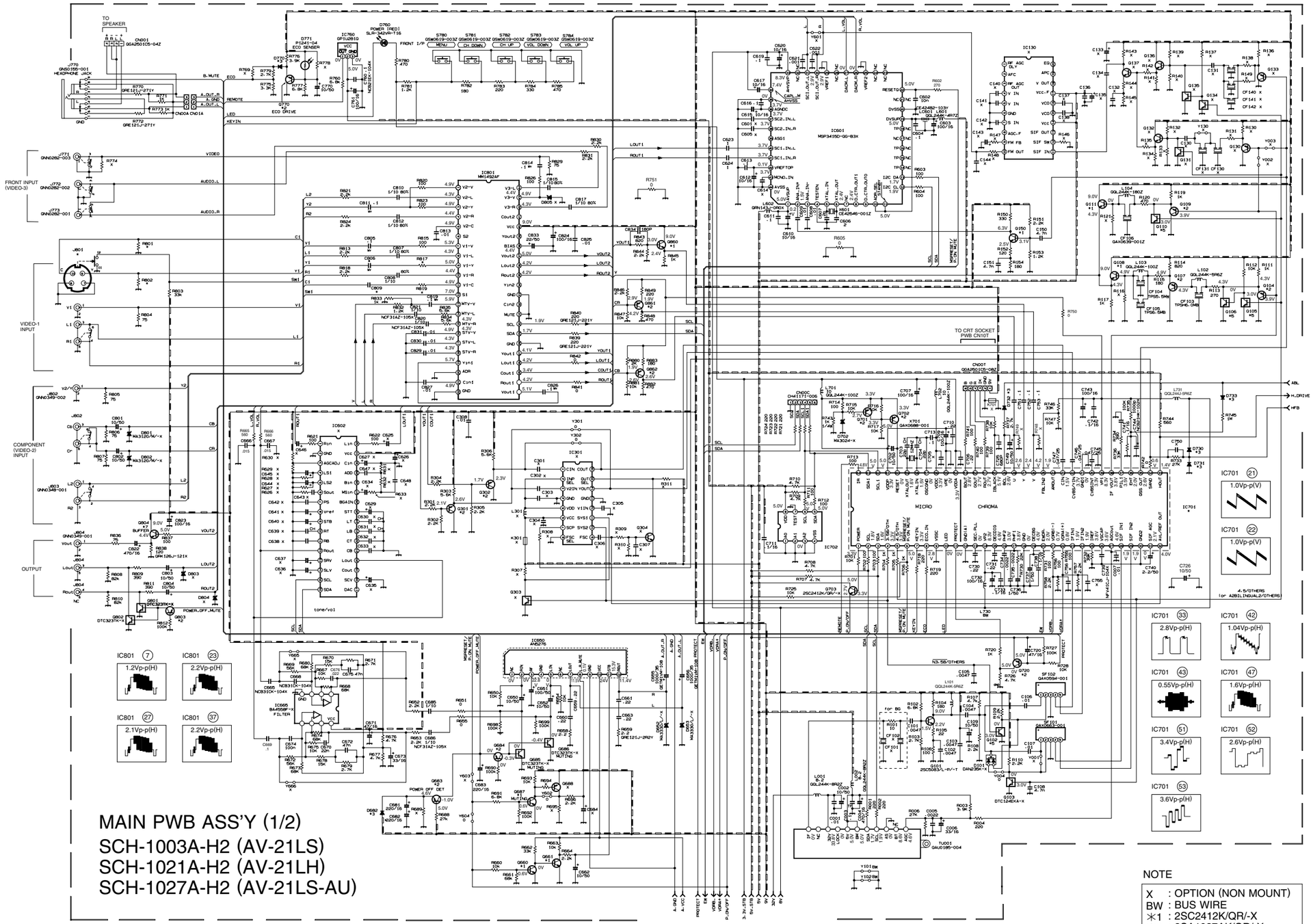
TOP VIEW		
		

BLOCK DIAGRAM



CIRCUIT DIAGRAMS

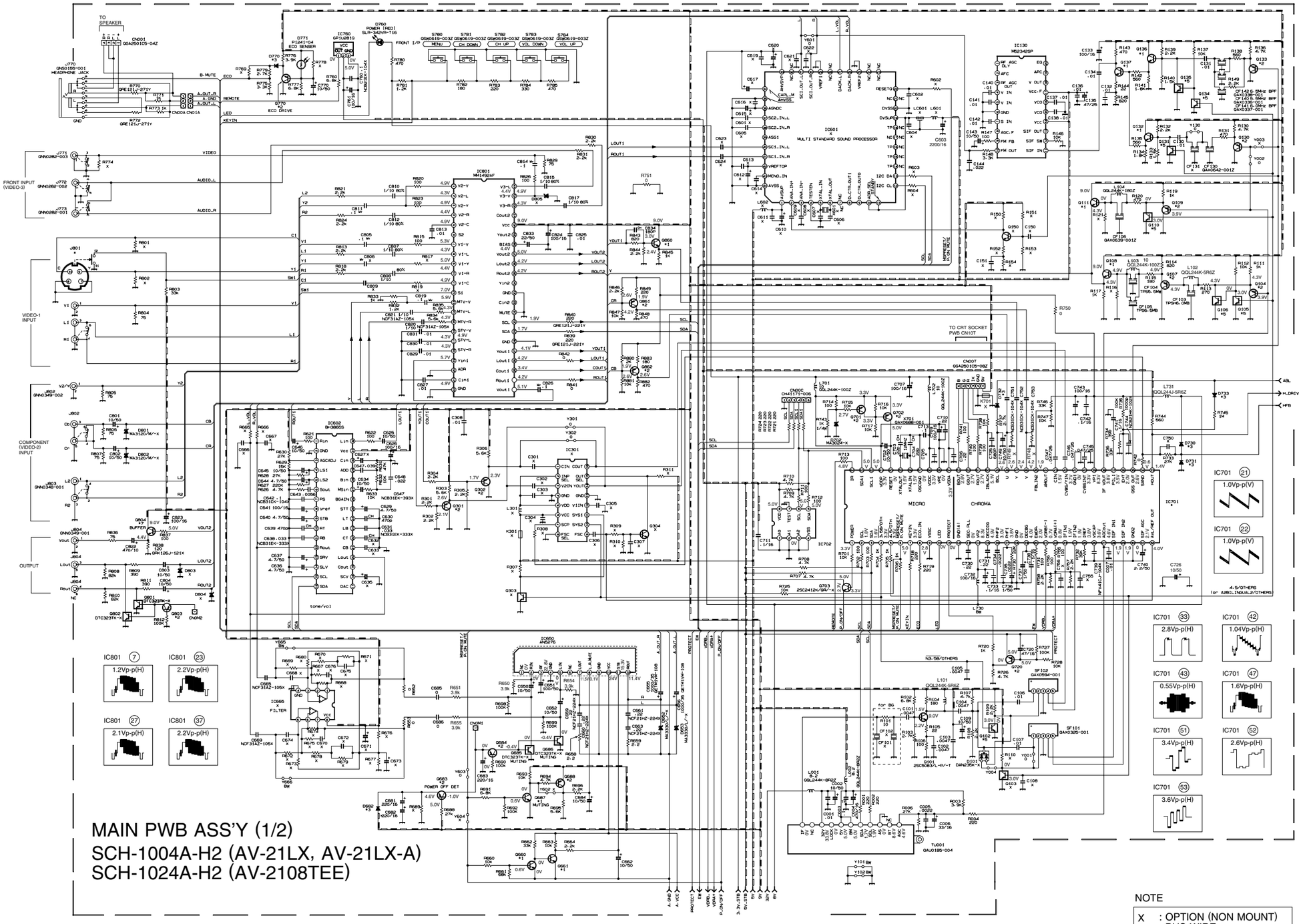
MAIN PWB CIRCUIT DIAGRAM (1/2) [AV-21LS, AV-21LS-AU, AV-21LH]



∗DIFFERENCE LIST (∗PARTS)

	IC701	J801	R801	R802	R817	R819	C806	C809
SCH-1003A-H2	TDA9365N13S0455	QNN0349-001	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
SCH-1021A-H2	TDA9386N12S0450	QNN0349-001	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
SCH-1027A-H2	TDA9365N13S0455	QNZ0454-001	75Ω	75Ω	100Ω	100Ω	0.1μF	0.01μF

MAIN PWB CIRCUIT DIAGRAM (1/2) [AV-21LX, AV-21LX-A, AV-2108TEE]



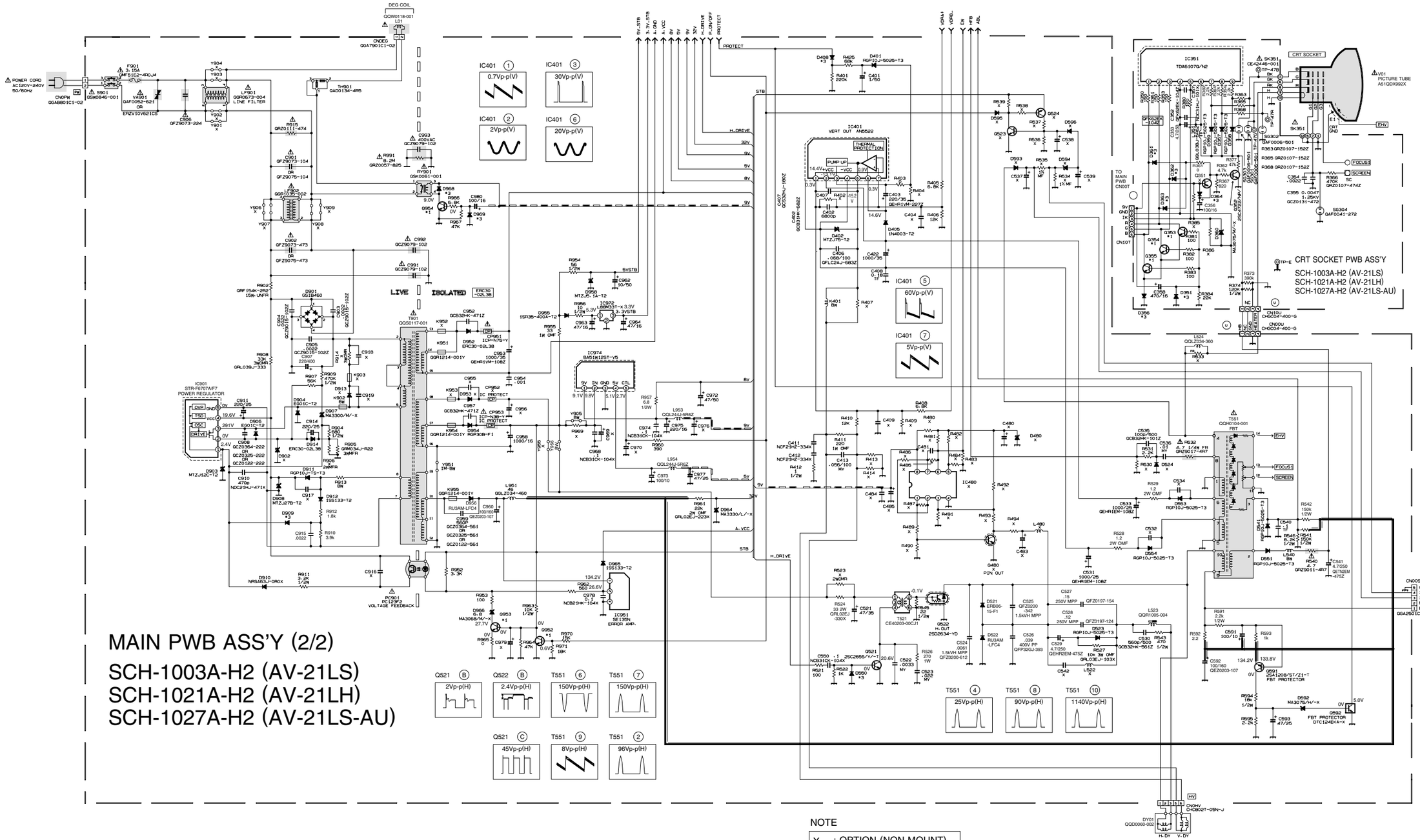
NOTE

X	: OPTION (NON MOUNT)
BW	: BUS WIRE
✳1	: 2SC2412K/QR/-X
✳2	: 2SA1037AK/QR/-X
✳3	: MA111-X
✳5	: DTC124EKA-X
✳7	: 2SC1740S/QR/-T

✳DIFFERENCE LIST (✳PARTS)

	IC701
SCH-1004A-H2	TDA9386N12S0450
SCH-1024A-H2	TDA9365N13S0455

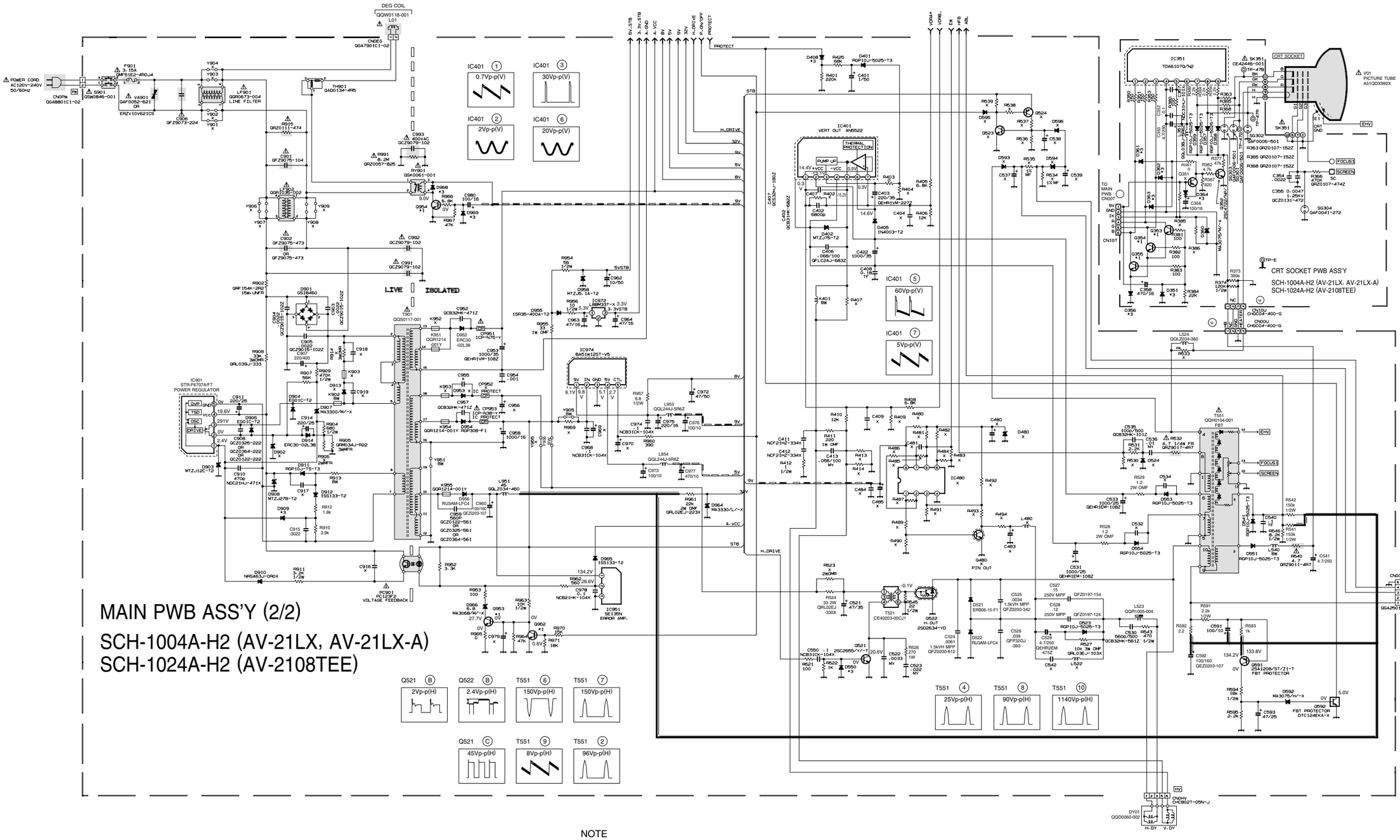
MAIN(2/2) AND CRT SOCKET PWB CIRCUIT DIAGRAMS [AV-21LS, AV-21LS-AU, AV-21LH]



NOTE

X	: OPTION (NON MOUNT)
BW	: BUS WIRE
✳1	: 2SC2412K/QR/-X
✳2	: 2SA1037AK/QR/-X
✳3	: MA111-X

MAIN(2/2) AND CRT SOCKET PWB CIRCUIT DIAGRAMS [AV-21LX, AV-21LX-A, AV-2108TEE]



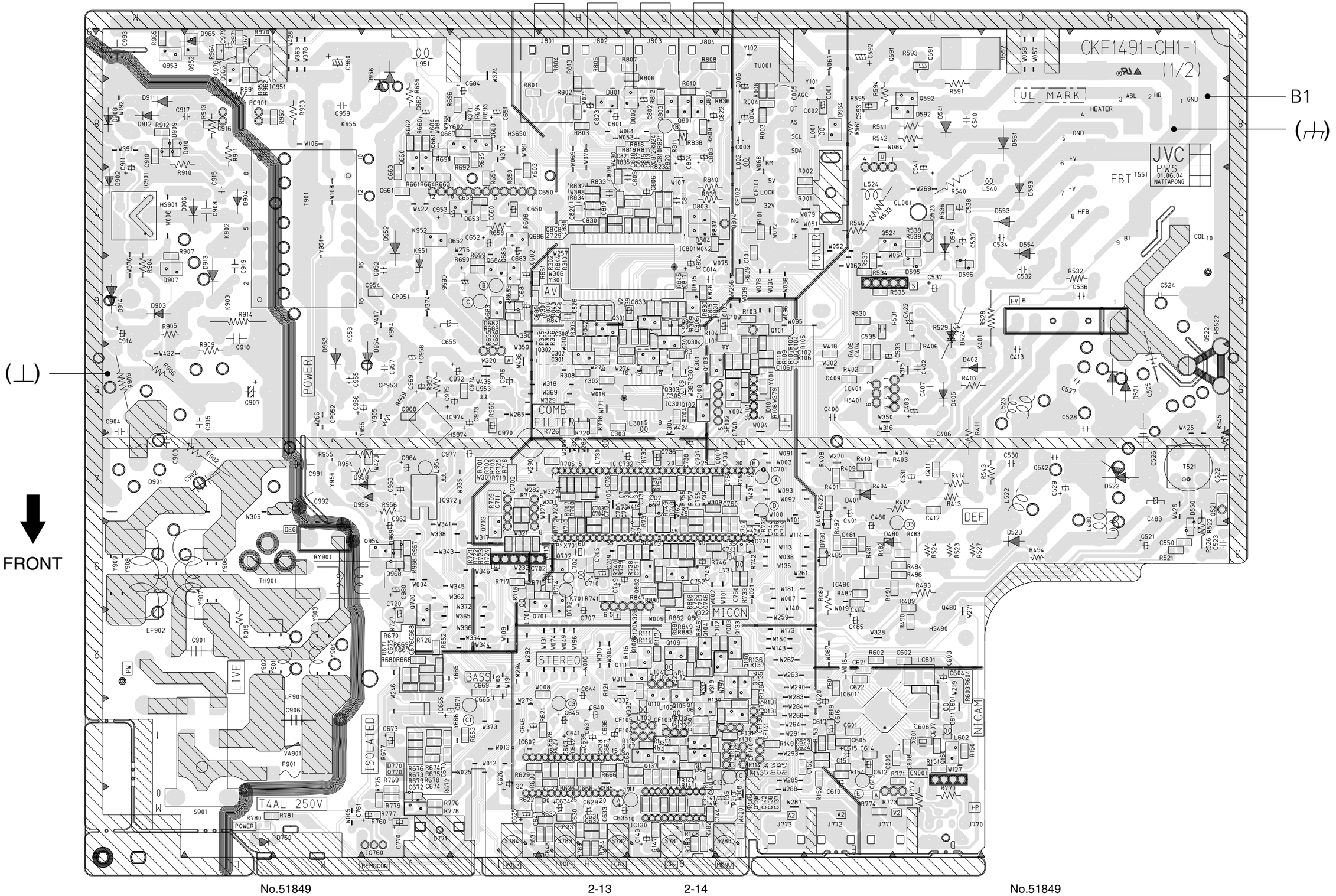
NOTE

X	: OPTION (NON MOUNT)
BW	: BUS WIRE
✳1	: 2SC2412K/QR/-X
✳2	: 2SA1037AK/QR/-X
✳3	: MA111-X

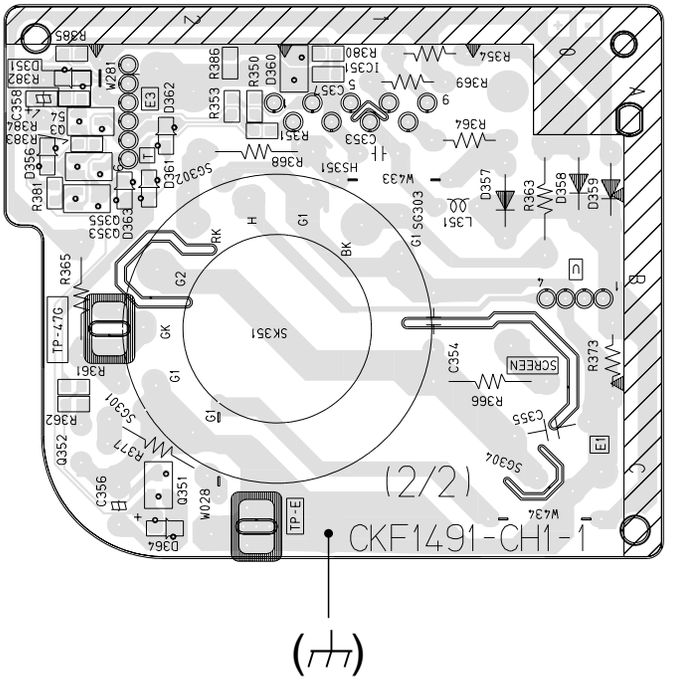
AV-21LS AV-21LX
AV-21LH AV-2108TEE

PATTERN DIAGRAMS

MAIN PWB PATTERN



CRT SOCKET PWB PATTERN



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AV21LX-H #4 AV21LXA-H #4 AV2108TEE-H #4

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