

JVC

SCHEMATIC DIAGRAMS

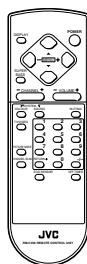
COLOUR TELEVISION

BASIC CHASSIS

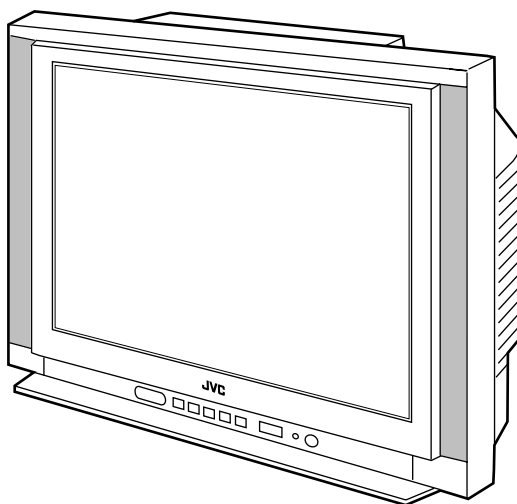
CH

AV-21LXB **AV-25LXB**
AV-21LXB(-A) **AV-25LXB(-A)**

CD-ROM No. SML200109



RM-C356-1C



AV-21LXB **AV-25LXB**
AV-21LXB(-A) **AV-25LXB(-A)**

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the \triangle 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 : 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 : [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



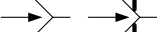
-  : B1
-  : B2(12V)
-  : 9V
-  : 5V

* 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

- \perp : LIVE side ground
- ∇ : ISOLATED(NEUTRAL) side ground
- \equiv : EARTH ground
- \downarrow : 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) : (∇) 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.

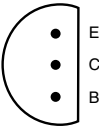

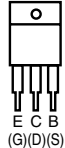
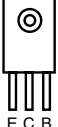

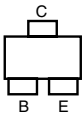
● Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

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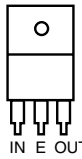
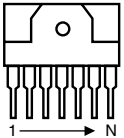
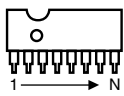
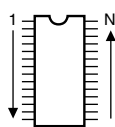
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SEMICONDUCTOR SHAPES

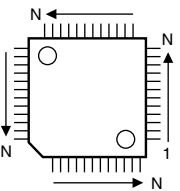
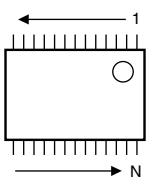
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

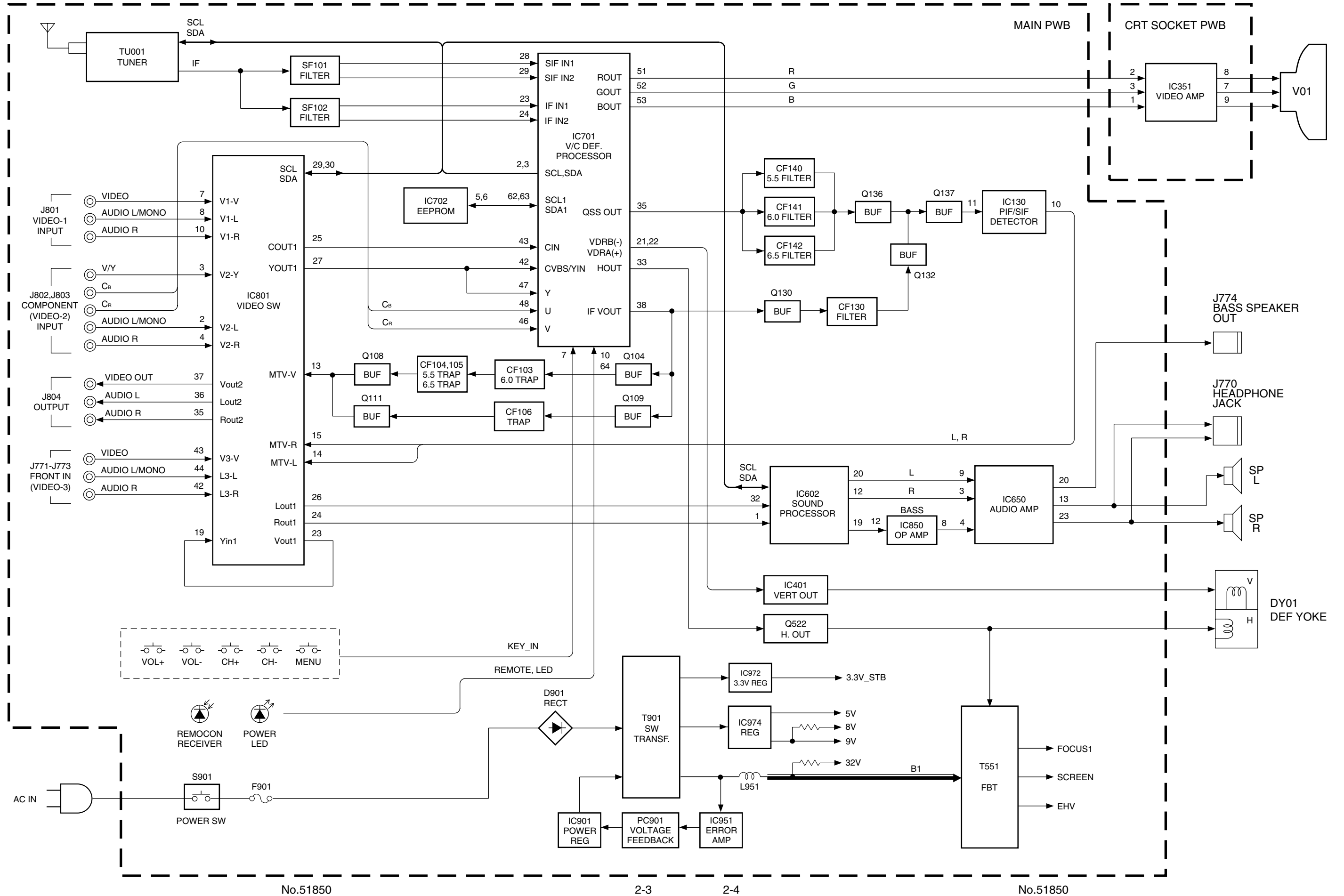
IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

TOP VIEW		
		

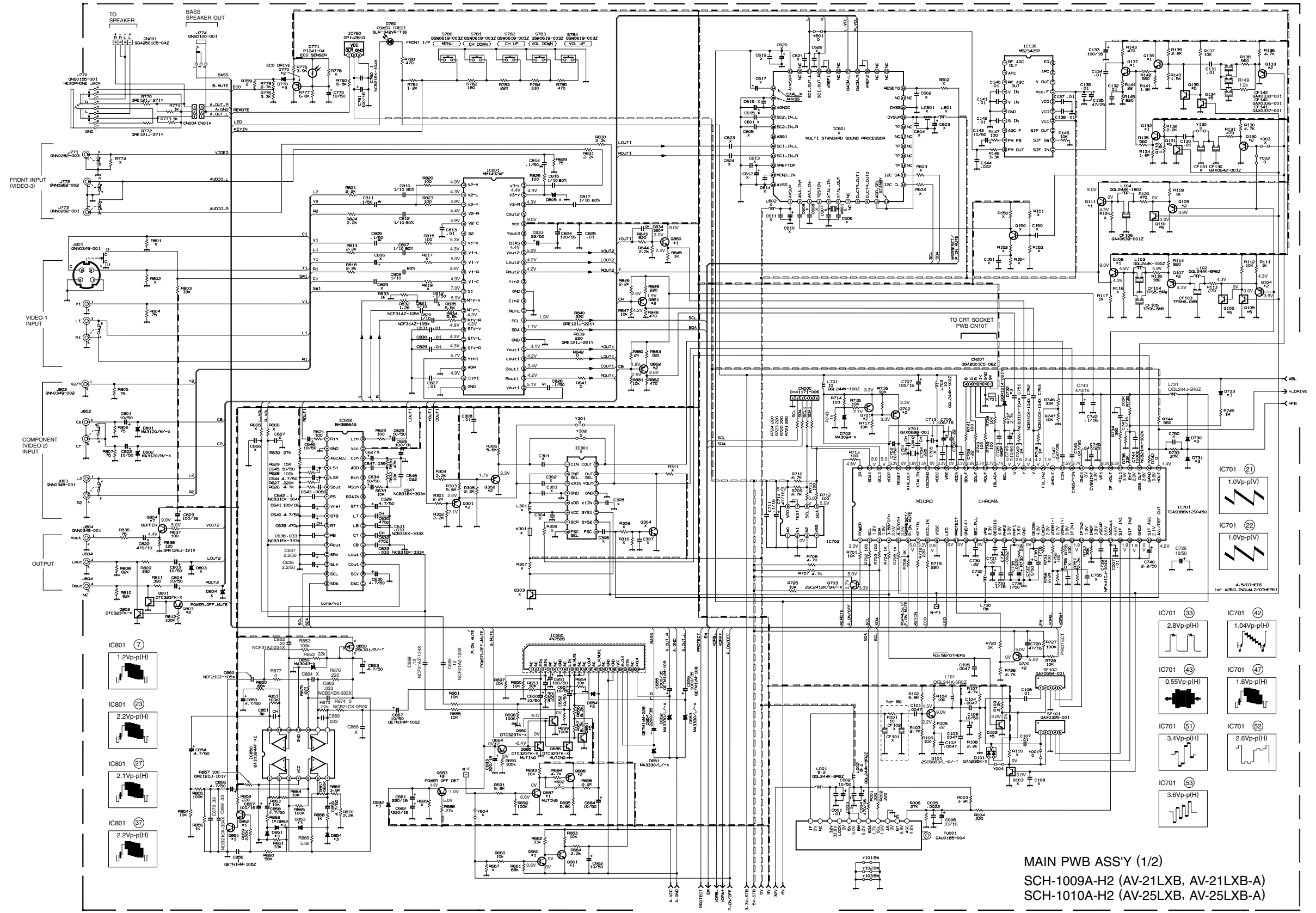
BLOCK DIAGRAM



CIRCUIT DIAGRAMS

MAIN PWB CIRCUIT DIAGRAMS (1/2)

AV-21LXB AV-25LXB
AV-25LXB AV-25LXB



MAIN PWB ASS'Y (1/2)
SCH-1009A-H2 (AV-21LXB, AV-21LXB-A)
SCH-1010A-H2 (AV-25LXB, AV-25LXB-A)

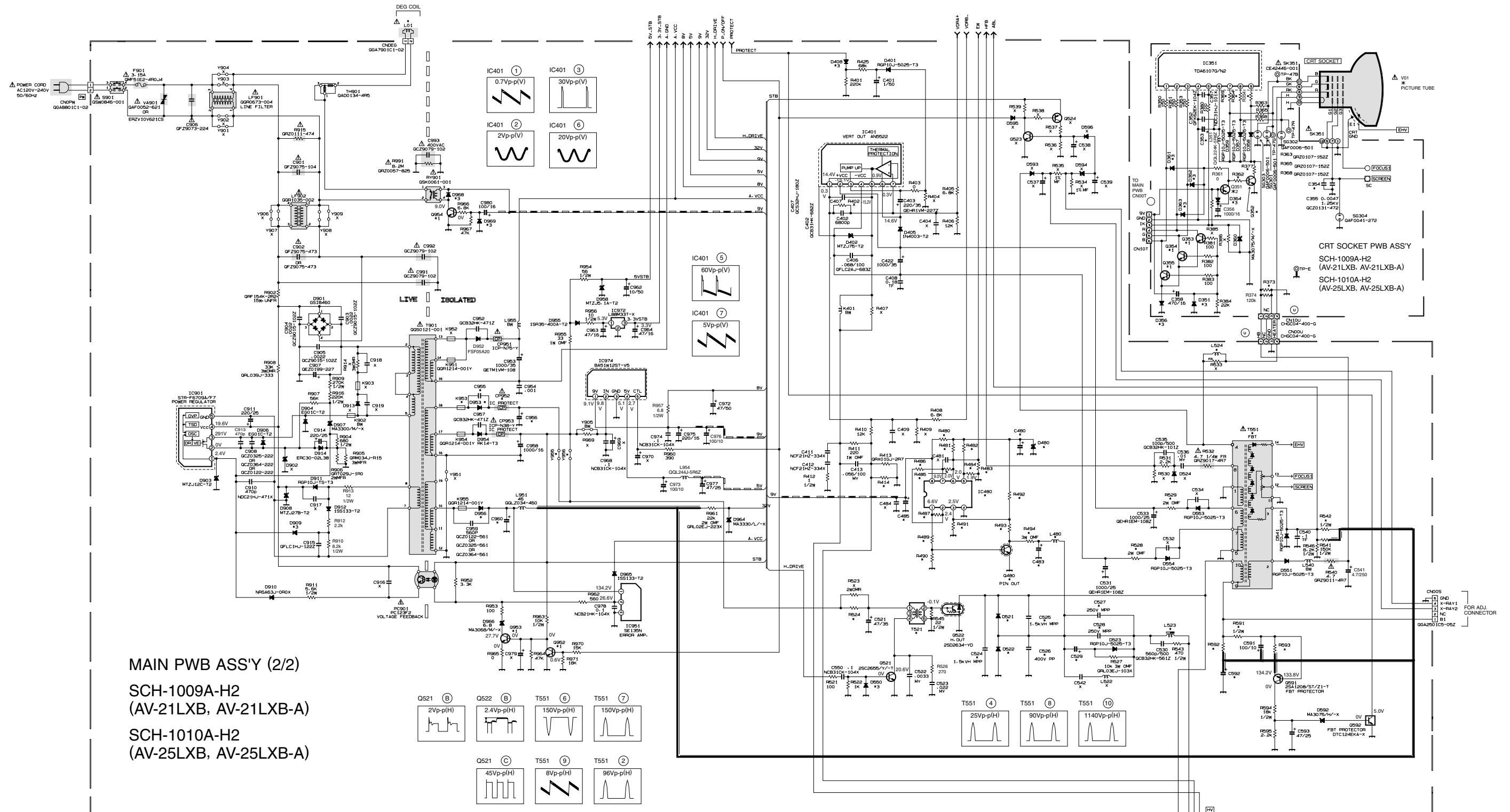
* DIFFERENCE LIST (*PARTS)

	C732
SCH-1009A-H2	470 μ F/16V
SCH-1010A-H2	100 μ F/16V

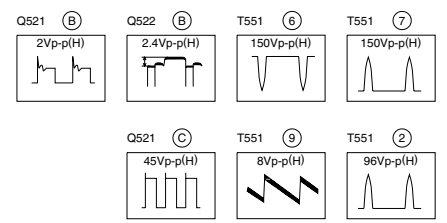
- NOTE
- X : OPTION (NON MOUNT)
 - BW : BUS WIRE
 - *1 : 2SC2412K/QR-X
 - *2 : 2SA1037AK/QR-X
 - *3 : MA111-X
 - *5 : DTC124EKA-X
 - *7 : 2SC1740S/QR-T

MAIN (2/2) AND CRT SOCKET PWB CIRCUIT DIAGRAMS

AV-21LXB AV-25LXB
AV-21LXB AV-25LXB



MAIN PWB ASS'Y (2/2)
SCH-1009A-H2
(AV-21LXB, AV-21LXB-A)
SCH-1010A-H2
(AV-25LXB, AV-25LXB-A)



* DIFFERENCE LIST (*PARTS)

	IC480	R354	R362	R364, R369	R373	R377	R414	R480	R481	R482	R483	R484, R485	R486	R487	R489	R490	R491	R492
SCH-1009A-H2	NOT USED	2.2kΩ	100Ω	2.2kΩ	390kΩ	56kΩ	150Ω	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
SCH-1010A-H2	UPC358G2-XE	1.8kΩ	NOT USED	1.8kΩ	120kΩ	NOT USED	8.2Ω	680Ω	22kΩ	5.6kΩ	82kΩ	5.6kΩ	2.7kΩ	33kΩ	1.2kΩ	1kΩ	5.6kΩ	8.2kΩ
	R493	R494	R524	R528, R529	R542	R591	R592	R593	C553	C554	C480	C483	C485	C524	C525	C526	C527	C528
SCH-1009A-H2	NOT USED	NOT USED	33Ω	1.2Ω	150kΩ	2.2kΩ	2.2Ω	1kΩ	4.7μF/250V	NOT USED	NOT USED	NOT USED	NOT USED	0.0061μF	0.0034μF	0.039μF	0.15μF	0.12μF
SCH-1010A-H2	22kΩ	47Ω	82Ω	0.47Ω	120kΩ	4.7kΩ	3.9Ω	820Ω	1μF/250V	0.0022μF	10μF/50V	4.7μF/50V	22μF/50V	0.0047μF	0.011μF	0.022μF	0.18μF	0.18μF
	C529	C592	C955	C956	C960	Q352	Q480	D480	D521	D522	D953	D956	L480	L523	L524	T521	T551	CP952
SCH-1009A-H2	4.7μF/250V	100μF/160V	NOT USED	NOT USED	100μF/160V	2SC4212/Z1/	NOT USED	NOT USED	ERB06-15-F1	RU3AM-LFC4	NOT USED	RU3AM-LFC4	NOT USED	QQR1005-004	QQLZ034-360	CE40203-00CJ1	QQH0104-001	NOT USED
SCH-1010A-H2	2.2μF/100V	220μF/35V	470pF	220μF/35V	220μF/160V	NOT USED	2SD1408/OY/LB	MTZJ4.3A-T2	RH3G-F1	31DF6N-FCS5	RGPI10J-5025-T3	31DF6N-FCS5	QQR1138-001	QQR1137-005	QQLZ026-140	QQR1229-001	QQH0097-001	ICP-N50-Y
	DY01	L01	V01	K953	Y955	Y956												
SCH-1009A-H2	QDD0060-002	QQW0118-001	A51QDX992X	NOT USED	NOT USED	IM-BW												
SCH-1010A-H2	QDD0062-001	QQW0119-001	A59QDF891X	QQR1214-001Y	IM-BW	NOT USED												

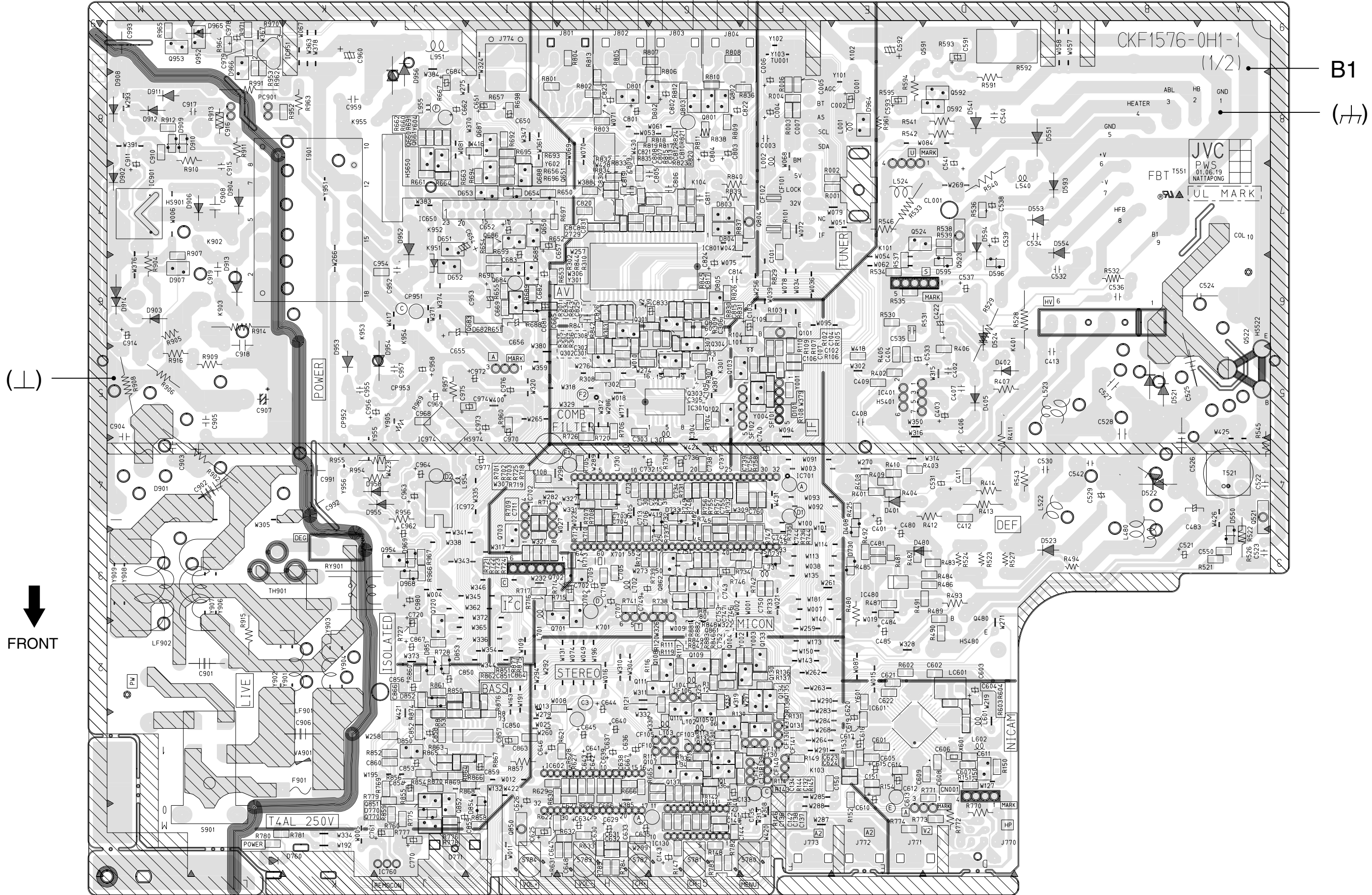
NOTE

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

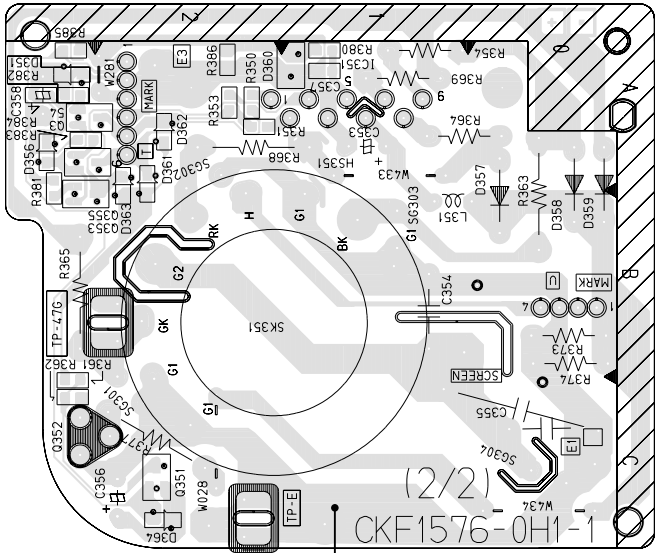
PATTERN DIAGRAMS
MAIN PWB PATTERN

AV-21LXB
 AV-25LXB

AV-21LXB
 AV-25LXB



CRT SOCKET PWB PATTERN



TOP
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(H)



JVC

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AV21LXB-H #4
AV21LXBA-H #4

AV25LXB-H #4
AV25LXBA-H #4



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