

# JVC

## SCHEMATIC DIAGRAMS

### COLOUR TELEVISION

BASIC CHASSIS

CH

**AV-25LS3**

**AV-25LS3 /AU**

**AV-25LH3**

**AV-25LX3**

**AV-25LX3 /A**

**AV-25LX3 /AU**

**AV-2568TEE**

CD-ROM No. SML200209



RM-C1010-1H  
[AV-25LS3]  
[AV-25LS3/AU]



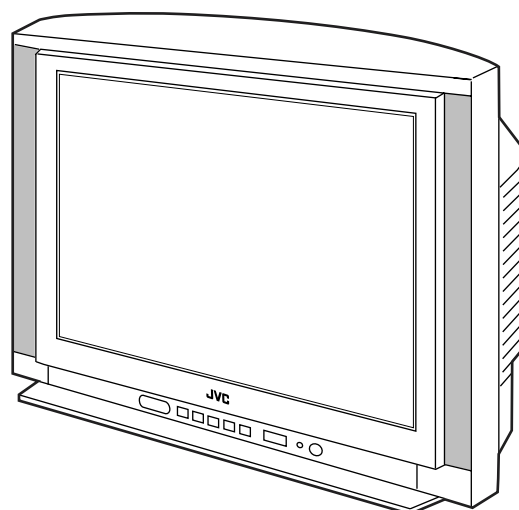
RM-C1011-1H  
[AV-25LH3]



RM-C1014-1H  
[AV-25LX3]  
[AV-25LX3/A]  
[AV-25LX3/AU]



RM-C1013-1H  
[AV-2568TEE]



# AV-25LS3 AV-25LX3 AV-2568TEE AV-25LS3 /AU AV-25LX3 /A AV-25LH3 AV-25LX3 /AU 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 : Color bar signal
- (2) Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3) Internal resistance of tester : DC 20k $\Omega$ /V
- (4) Oscilloscope sweeping time : H  $\Rightarrow$  20 $\mu$ 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 : [ $\Omega$ ]  
k : [k $\Omega$ ]  
M : [M $\Omega$ ]

- 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 : Uninflammmable 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 : [ $\mu$ 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 [ $\mu$ F]/withstand voltage[V]



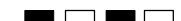

- Type

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 : [ $\mu$ H]  
Others : As specified

#### (4) Power Supply



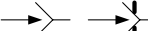
 : B1  
 : B2(12V)  
 : 9V  
 : 5V

\* 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  
 $\text{---}\text{H}\text{---}$  : ISOLATED(NEUTRAL) side ground  
 $\text{---}\text{E}\text{---}$  : 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) : ( $\text{---}\text{H}\text{---}$ ) 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 the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time with a measuring apparatus ( oscilloscope, etc.). 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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## CIRCUIT DIAGRAMS

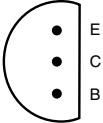

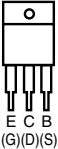


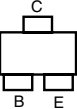
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P.W.B. name		
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## PATTERN DIAGRAMS

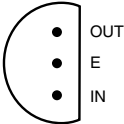
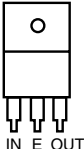
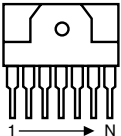
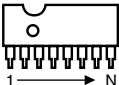
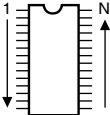
Model	AV-25LS3 AV-25LS3/AU AV-25LH3	AV-25LX3 AV-25LX3/A AV-25LX3/AU AV-2568TEE
Patten name		
MAIN PWB PATTERN	P2-13	←
MAIN PWB (CRT SOCKET) PATTERN	P2-15	←

## SEMICONDUCTOR SHAPES

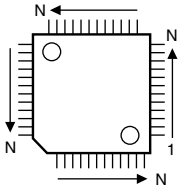
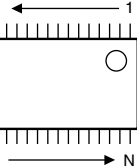
### TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

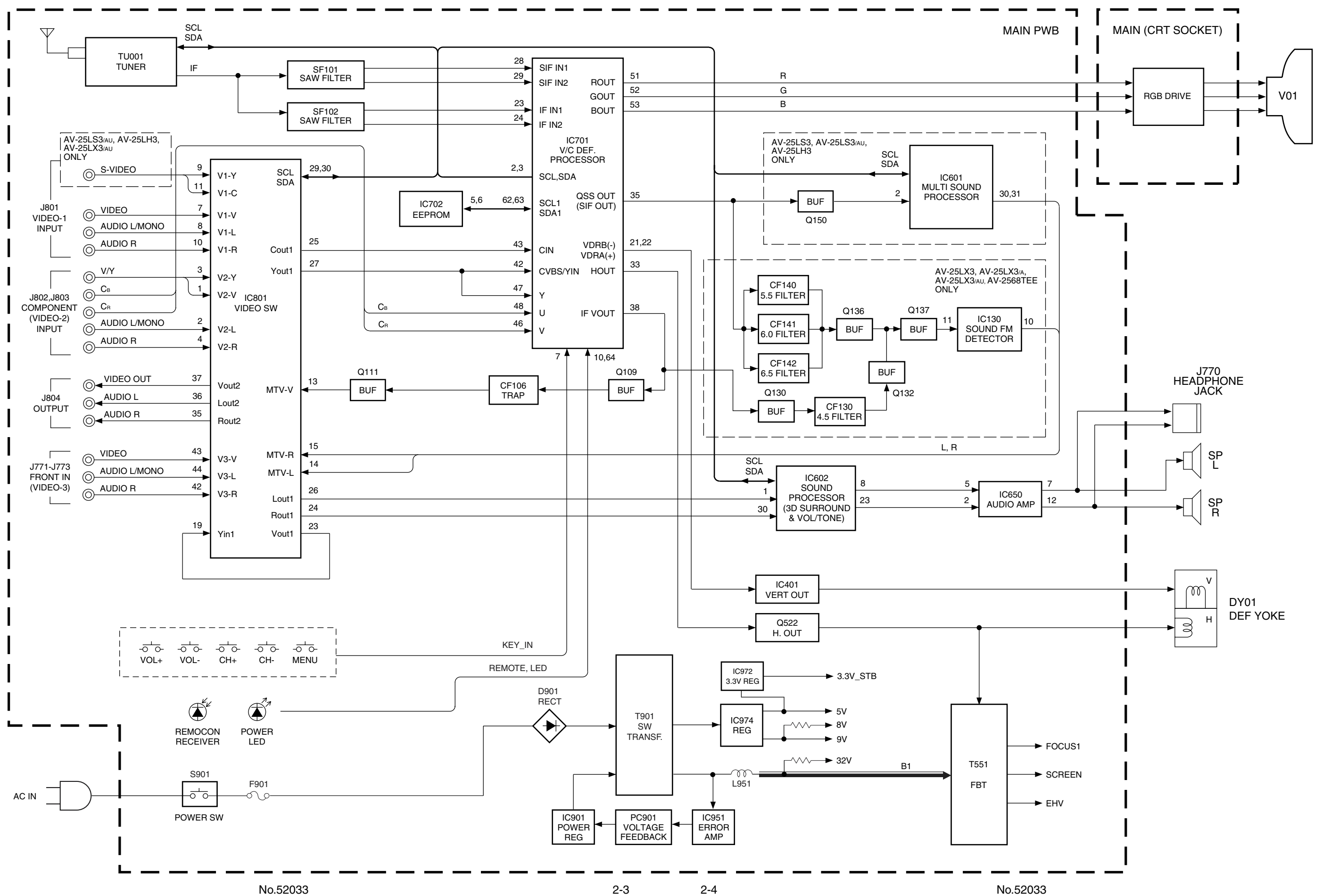
### IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

### CHIP IC

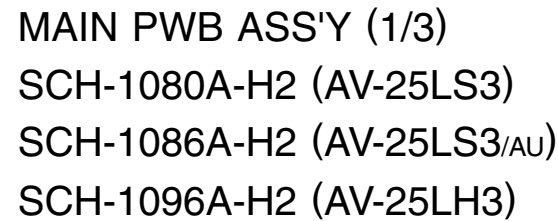
TOP VIEW	
	

## BLOCK DIAGRAM



### MAIN PWB CIRCUIT DIAGRAM (1/3) [AV-25LS3, AV-25LS3/AU, AV-25LH3]

AV-25LS3  
AV-25LH3



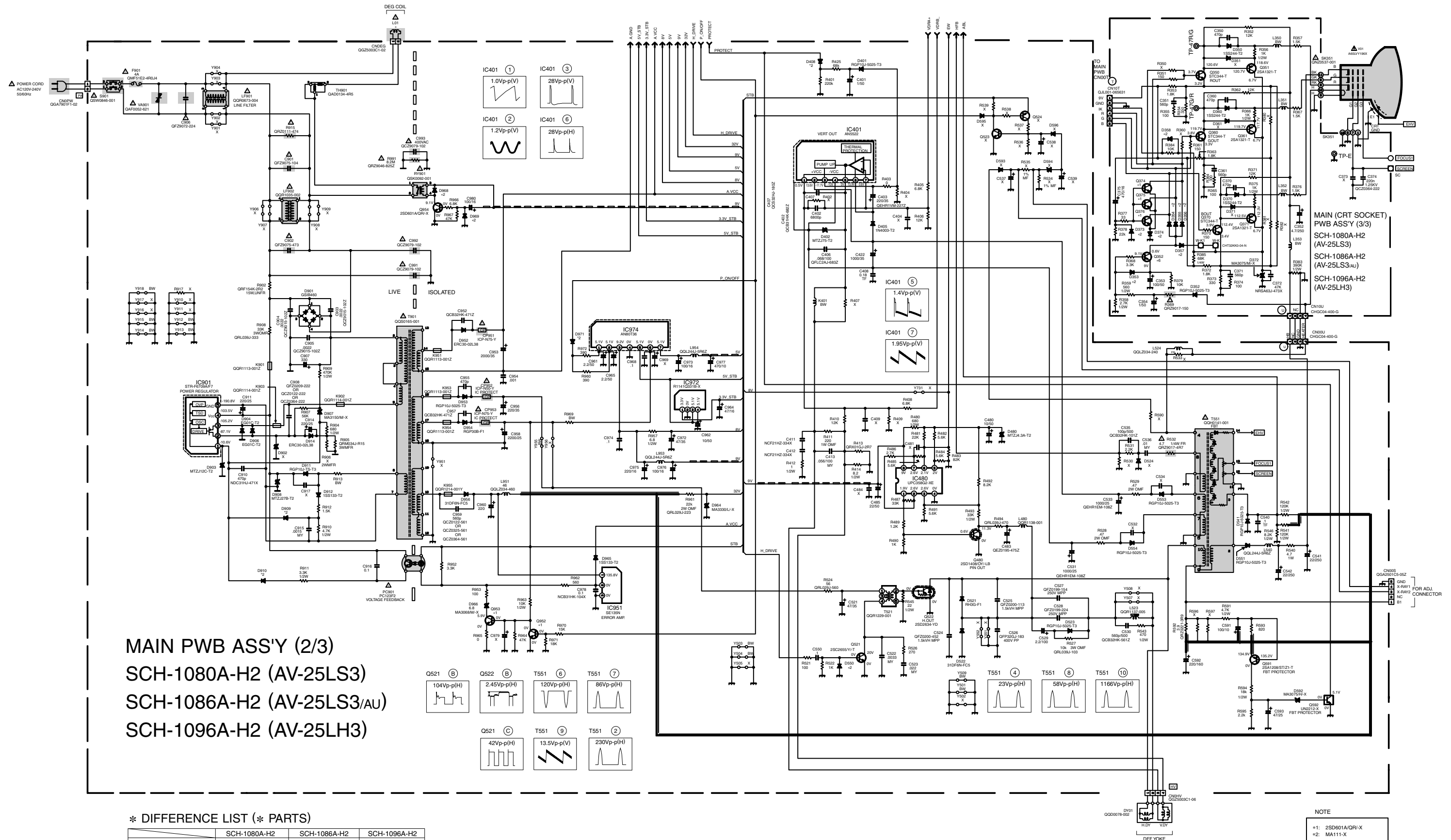
\* DIFFERENCE LIST (\* PARTS)

	IC701	J801	R801	R802	R817	R819	C806	C809
SCH-1080A-H2	TDA9365N2S30873	QNN0349-001	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
SCH-1086A-H2	TDA9365N2S30873	QNZ0454-001	75Ω	75Ω	100Ω	100Ω	0.1μF/50V	0.01μF/50V
SCH-1096A-H2	TDA9386N2S30866	QNZ0454-001	75Ω	75Ω	100Ω	100Ω	0.1μF/50V	0.01μF/50V

**NOTE**

\*1: 2SD601A/QR/-X  
\*2: MA111-X  
\*4: UN212-X  
\*5: 2SC1740S/QR/-T  
\*6: 2SB709A/QR/-X  
BW: BUS WIRE  
X: NON MOUNT (OPEN)  
0: NRSA63J-0R0X

MAIN PWB CIRCUIT DIAGRAMS (2/3, 3/3) [AV-25LS3, AV-25LS3/AU, AV-25LH3]



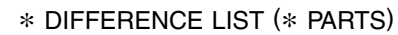


MAIN PWB ASS'Y (1/3)

SCH-1087A-H2 (AV-25LX3,AV-25LX3/A)

SCH-1098A-H2 (AV-25LX3/AU)

SCH-1097A-H2 (AV-2568TEE)

No.52033

**MAIN PWB ASS'Y (2/3)**  
**SCH-1087A-H2 (AV-25LX3, AV-25LX3/A)**  
**SCH-1098A-H2 (AV-25LX3/AU)**  
**SCH-1097A-H2 (AV-2568TEE)**

**MAIN (CRT SOCKET) PWB ASS'Y (3/3)**  
**SCH-1087A-H2 (AV-25LX3, AV-25LX3/A)**  
**SCH-1098A-H2 (AV-25LX3/AU)**  
**SCH-1097A-H2 (AV-2568TEE)**

**TEST POINTS AND WAVEFORMS:**

- Q521 (B): 104Vp-p(H)
- Q522 (B): 2.45Vp-p(H)
- T551 (6): 120Vp-p(H)
- T551 (7): 86Vp-p(H)
- Q521 (C): 42Vp-p(H)
- T551 (9): 13.5Vp-p(V)
- T551 (2): 230Vp-p(H)
- T551 (4): 23Vp-p(H)
- T551 (8): 58Vp-p(H)
- T551 (10): 1166Vp-p(H)

**COMPONENT VALUES FOR MAIN (CRT SOCKET) PWB ASS'Y (3/3):**

- R350: 150
- R351: 150
- R352: 150
- R353: 150
- R354: 150
- R355: 150
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	SCH-1087A-H2	SCH-1098A-H2	SCH-1097A-H2
Δ L01	QQW0119-001	QQW0147-001	QQW0119-001

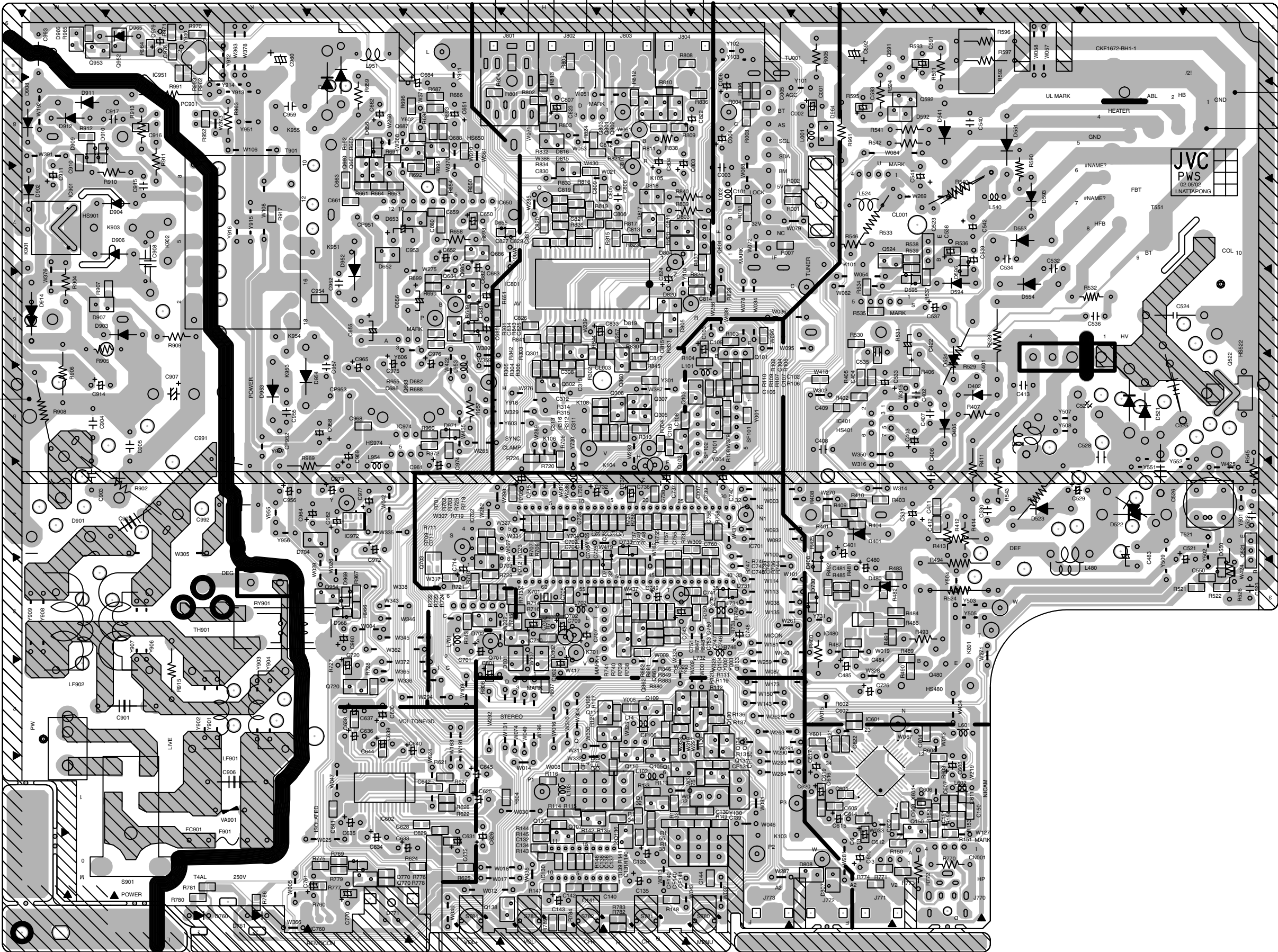
\*1: 2SD601A/QR/-X  
\*2: MA111-X  
\*6: 2SB709A/QR/-X  
BW: BUS WIRE  
X: NON MOUNT (OPEN)  
0: NRSA63J-0R0X



PATTERN DIAGRAMS  
MAIN PWB PATTERN

AV-25LS3 AV-25LX3 AV-25LS3 AV-25LX3  
AV-25LH3 AV-2568TEE AV-25LH3 AV-2568TEE

(T)  
FRONT



B1  
(H)





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AV25LS3-H	#4	AV25LH3-H	#4	AV25LX3A-H	#4
AV25LS3AU-H	#4	AV25LX3-H	#4	AV25LX3AU-H	#4
				AV2568TEE-H	#4



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