

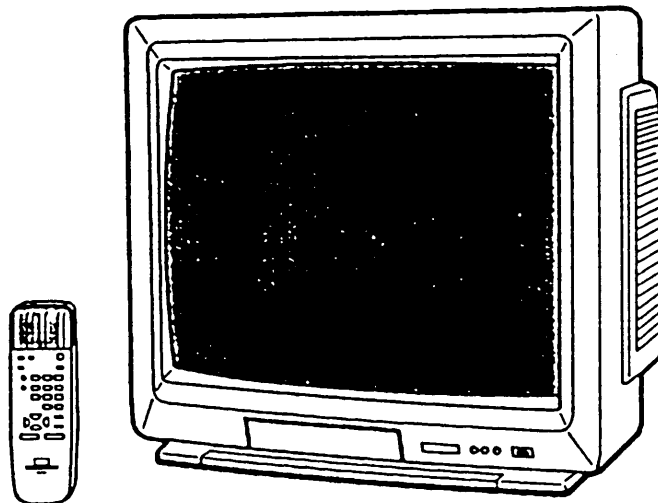
# JVC

## SERVICE MANUAL


### 55cm (21") COLOUR TV

## C-21T1

BASIC CHASSIS
KY



#### (NOTE)

Electrical components having special safety-related characteristics are identified by shading (  ) on the schematic diagram and by "△" on the parts list in SERVICE MANUAL. When replacing these components, be sure to use designated parts.


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※ STANDARD CIRCUIT DIAGRAM (APPENDED)	

# C-21T1 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 : PAL 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 : 1/6[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 : [ $\mu$ 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 [ $\mu$ 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 (115V)  
 : 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  
 : 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 (primary : ) side GND and the NEUTRAL (secondary : ) side GND. Therefore, care must be taken for the following points.

- Do not touch the LIVE side GND or the LIVE side GND and the 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.
- Do not short between the LIVE side GND and NEUTRAL side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and NEUTRAL side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

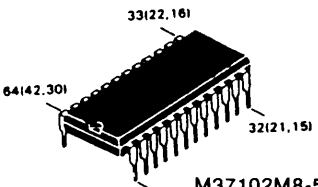
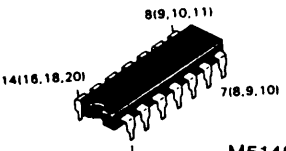
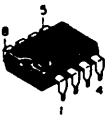



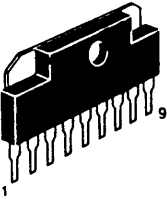
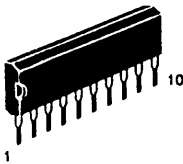
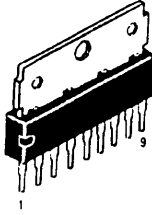
◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

# SEMICONDUCTOR SHAPES

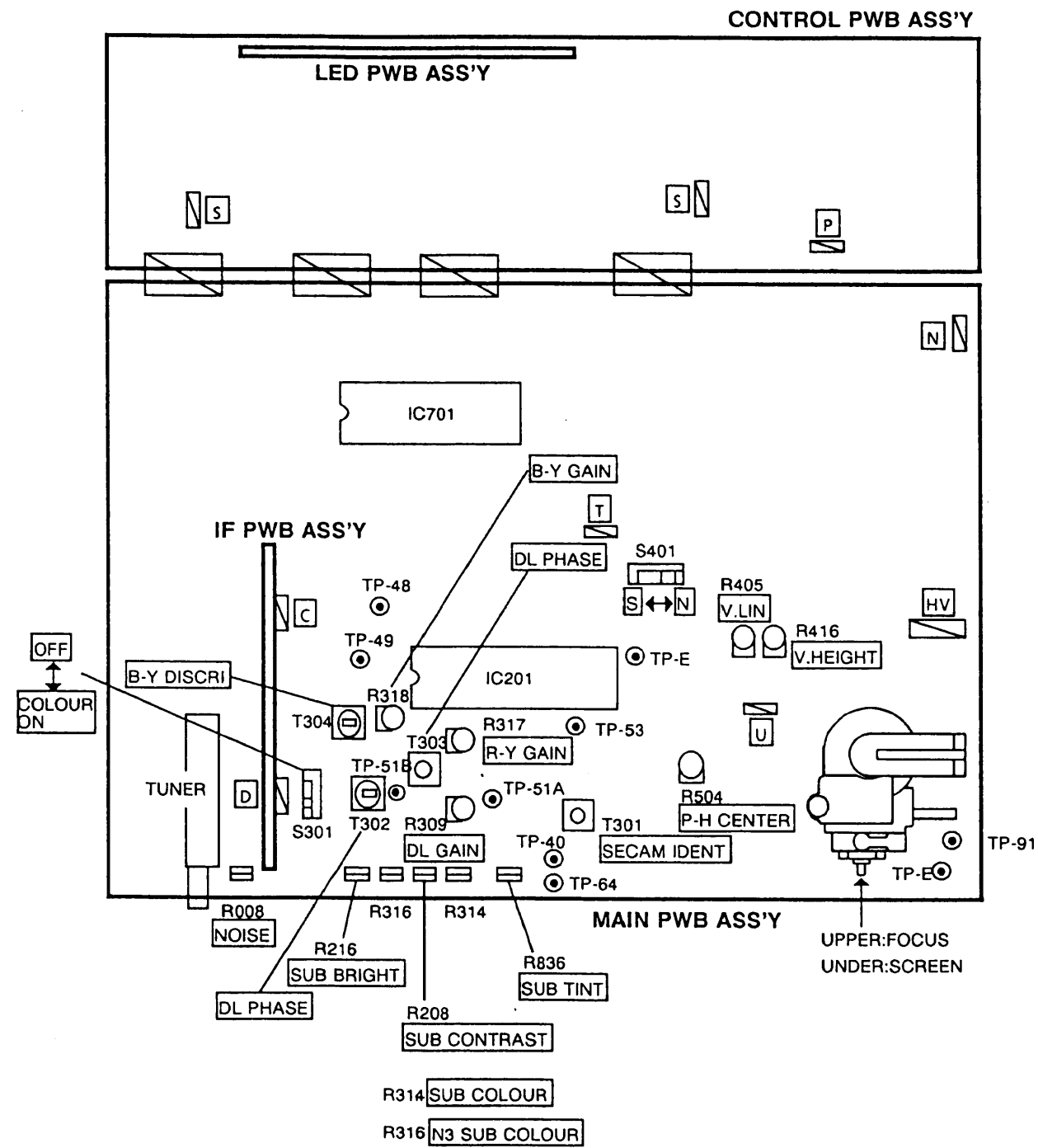
## TRANSISTORS

 <p>2SC4502-T 2SC1740S(QR)-T</p>	 <p>2SC1627A(OY)-T 2SC1959(Y) 2SA933S(QR)-T</p>	 <p>2SK301(P)-T</p>
 <p>SF0R1A42</p>	 <p>2SC1360-C1 2SA1013(RO)-T 2SC2655(Y)-T 2SA966(OY)-T 2SC2229(Y)-T 2SC1370(E)</p>	 <p>2SD1274A-C1 2SD1555-C1</p>
 <p>2SC2068-LB</p>		

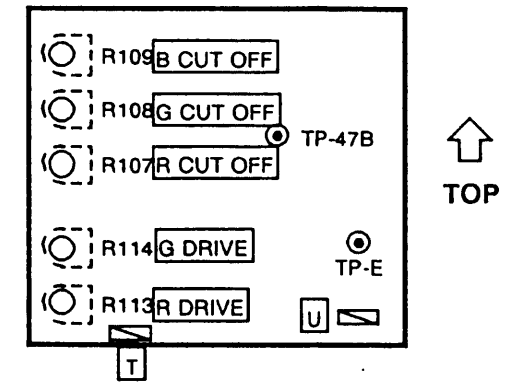
## ICS

 <p>33(22,16) 64(42,30) 32(21,15) M37102M8-548SP TA8659AN</p>	 <p>8(9,10,11) 14(16,18,20) 7(8,9,10) M51496P MC14066BCP M51320P</p>	 <p>M6M80041P</p>
 <p>OUT E IN AN78L05 PST529E</p>	 <p>AN7812</p>	 <p>STR54041S</p>
 <p>UPC1488H</p>	 <p>LA7210</p>	 <p>AN5265</p>

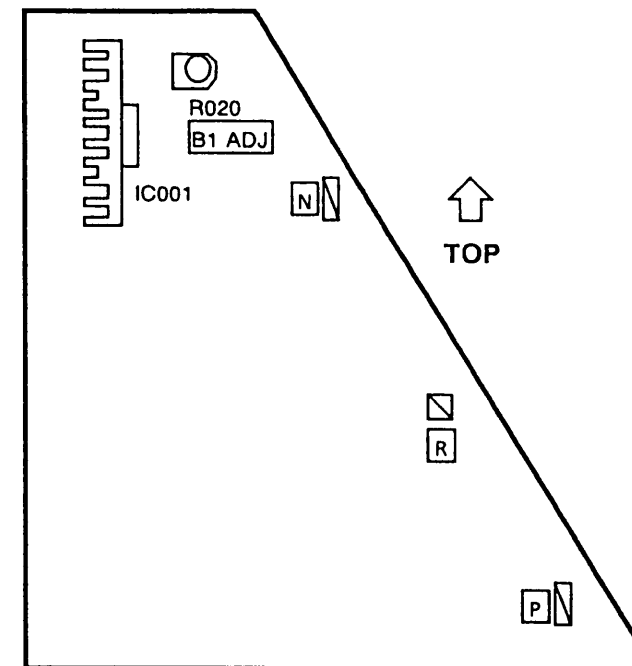
# MAINPARTS LOCATION AND ALIGNMENTS LOCATION



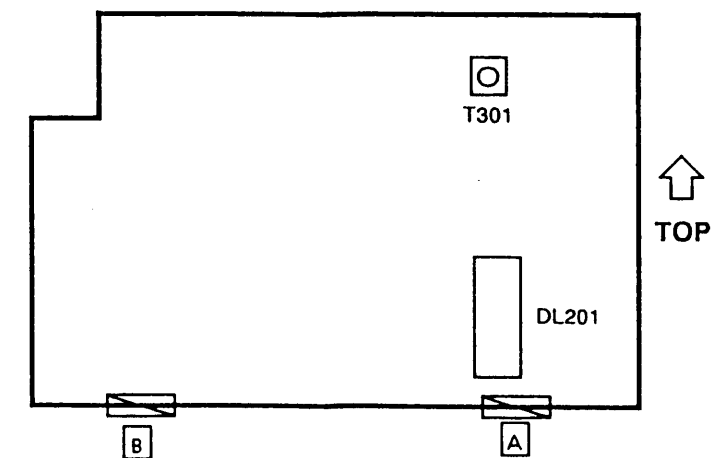
**CRT SOCKET PWB ASS'Y**



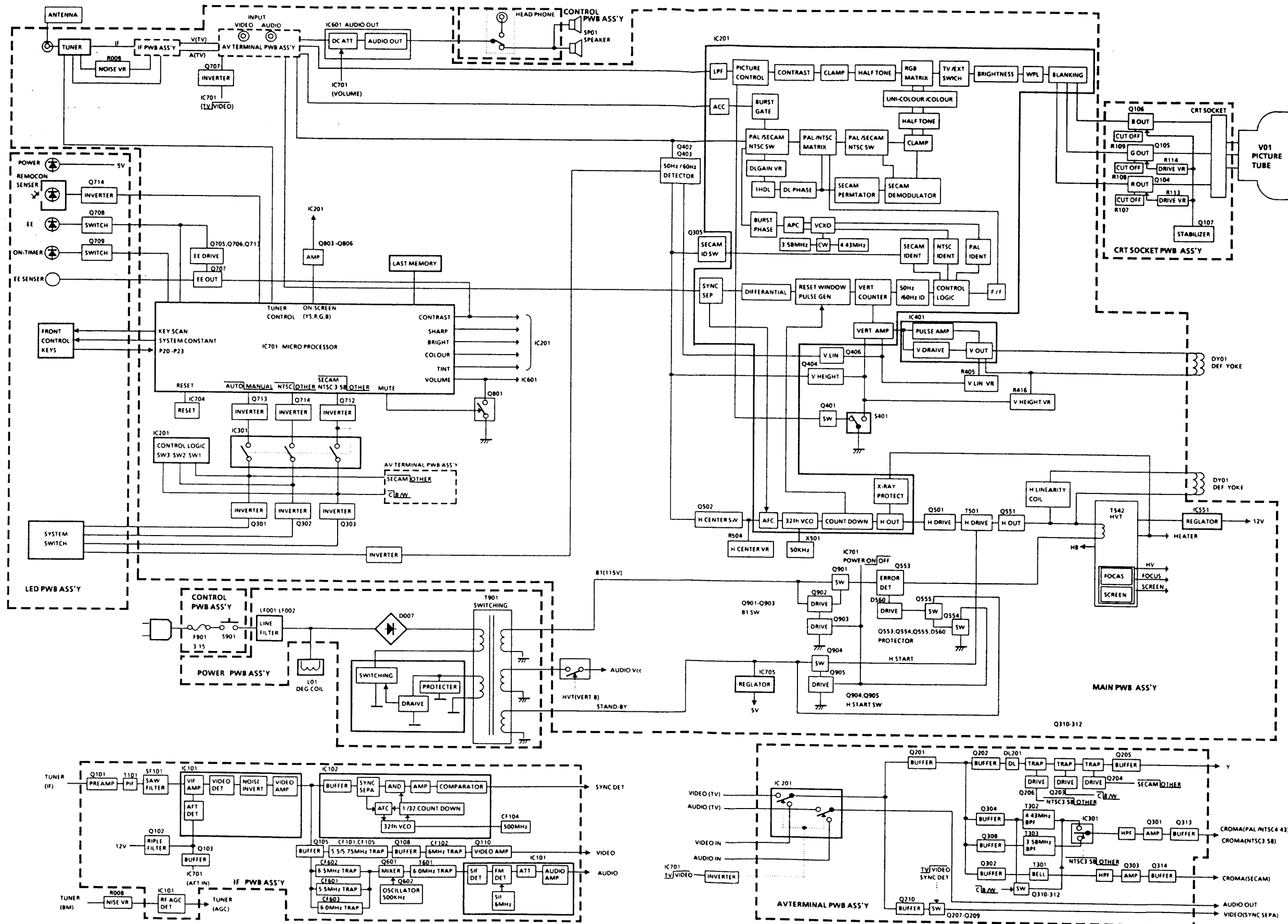
**POWER PWB ASS'Y**



**AV TERMINAL PWB ASS'Y**



# BLOCK DIAGRAM



## WIRLING LIST

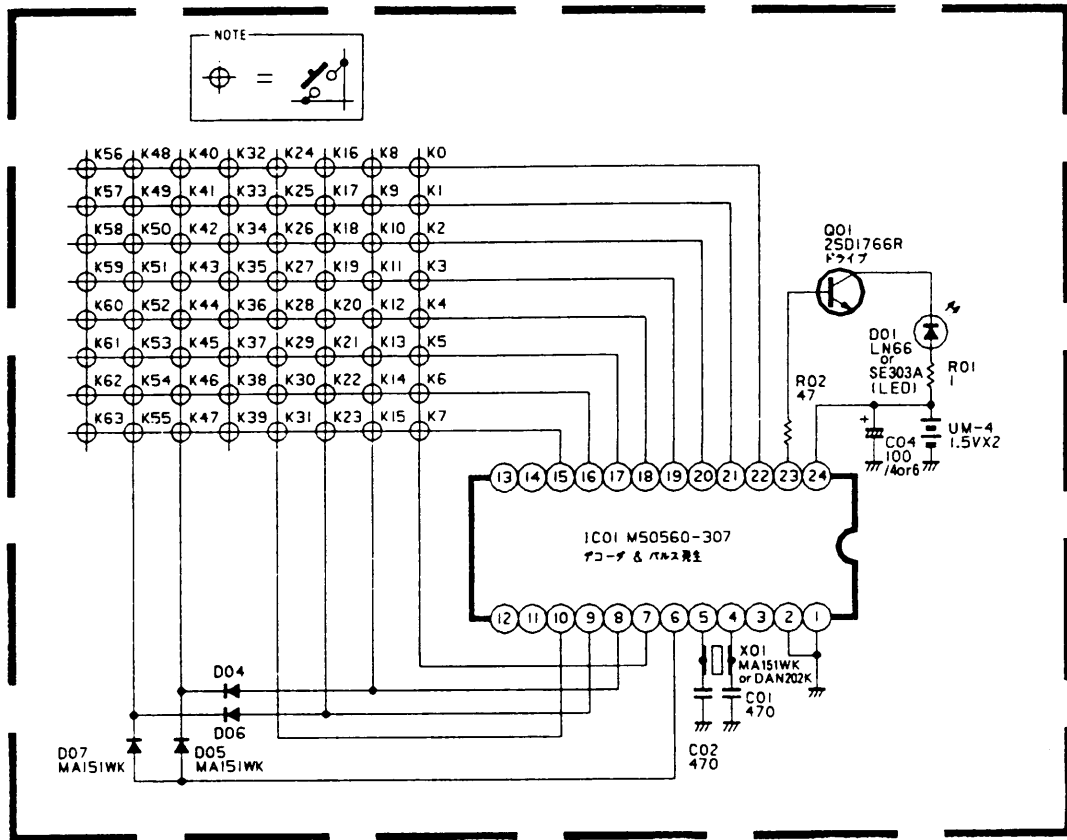
P.C.B. or PART NAME	CONNECTOR NAME	WIRE	CONNECTOR NAME	P.C.B. or PART NAME
MAIN PWB ASS'Y	T	←→	T	CRT SOCKET PWB ASS'Y
MAIN PWB ASS'Y	U	←→	U	CRT SOCKET PWB ASS'Y
MAIN PWB ASS'Y	N	←→	N	POWER PWB ASS'Y
MAIN PWB ASS'Y	HV	←→	WIRE	DEF.YOKE
CONTROL PWB ASS'Y	S	←→	+, -	R SPEAKER
CONTROL PWB ASS'Y	S	←→	+, -	L SPEAKER
CONTROL PWB ASS'Y	P	←→	P	POWER PWB ASS'Y
POWER PWB ASS'Y	R	←→	WIRE	DEG. COIL

●NOTE:Refer to Main Parts and Alignment Locations (Page 2-3,Page 2-4) for detailed connector positions.

# CIRCUIT DIAGRAMS AND PWB PATTERNS

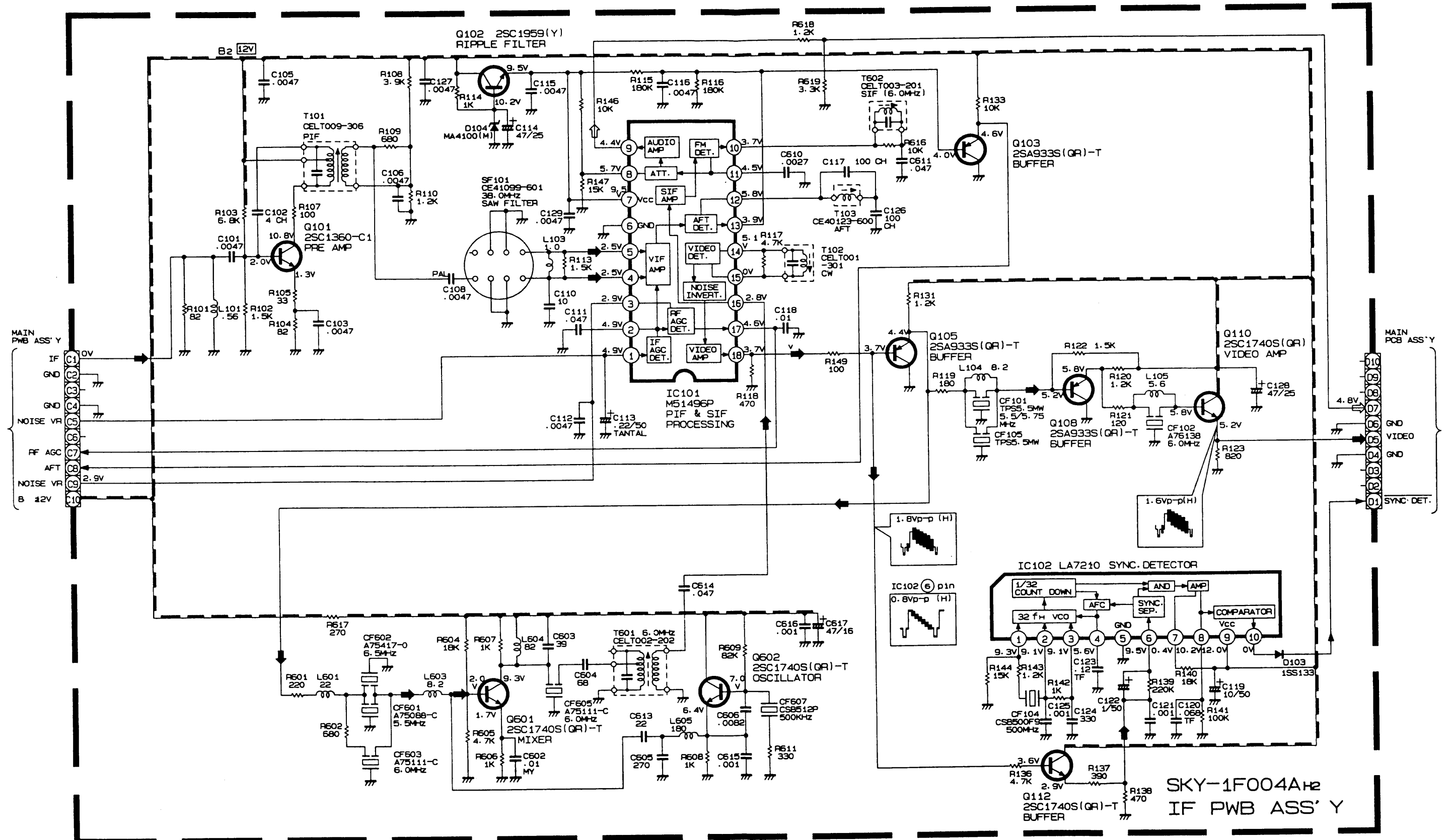
## REMOTE CONTROL TRANSMITTER CIRCUIT DIAGRAMS

[RM-C682-H]



### FUNCTION OF KEYS

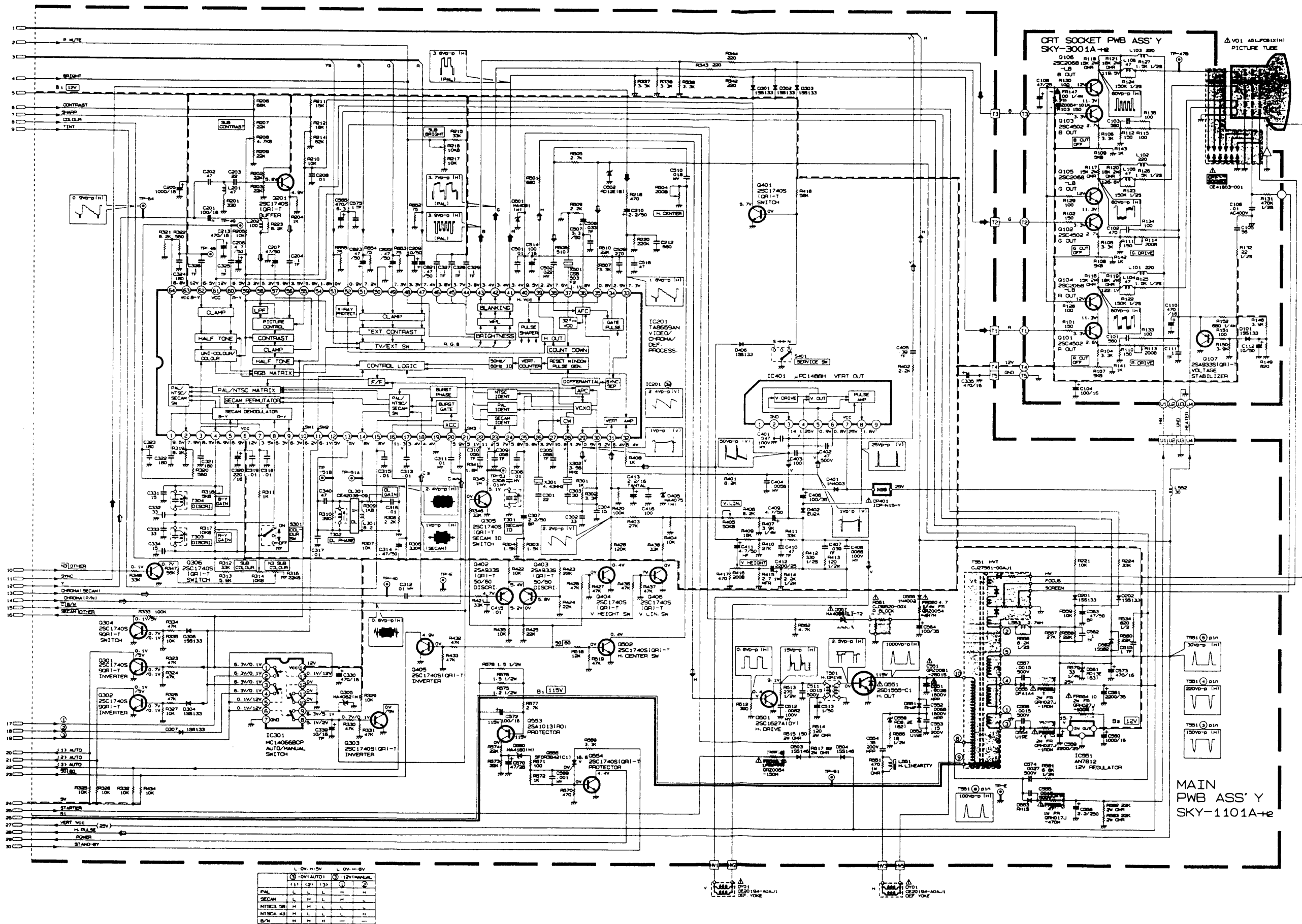
KEY NO.	KEY NAME	KEY NO.	KEY NAME	KEY NO.	KEY NAME
1	DISPLAY	17	4	30	COLOUR SYSTEM
2	VSM	18	5	44	● REC
7	POWER	19	6	45	■ STOP
8	CHANNEL -	20	7	47	◀◀ FF
9	CHANNEL +	21	8	48	▶▶ REW
10	MUTE	22	9	49	VTR POWER
11	VOLUME +	24	+(FUNCTION)	50	▶ PLAY
12	VOLUME -	25	-(FUNCTION)	51	PAUSE / STILL
13	0	26	MENU	52	TV
14	1	27	▼ (FUNCTION)	53	VIDEO
15	2	28	▲ (FUNCTION)	54	VTR CHANNEL -
16	3	29	EE	55	VTR CHANNEL +







Refer to the following PWB pattern. : MAIN PWB PATTERN 2-19page,CRT SOCKET PWB PATTERN 2-21page.

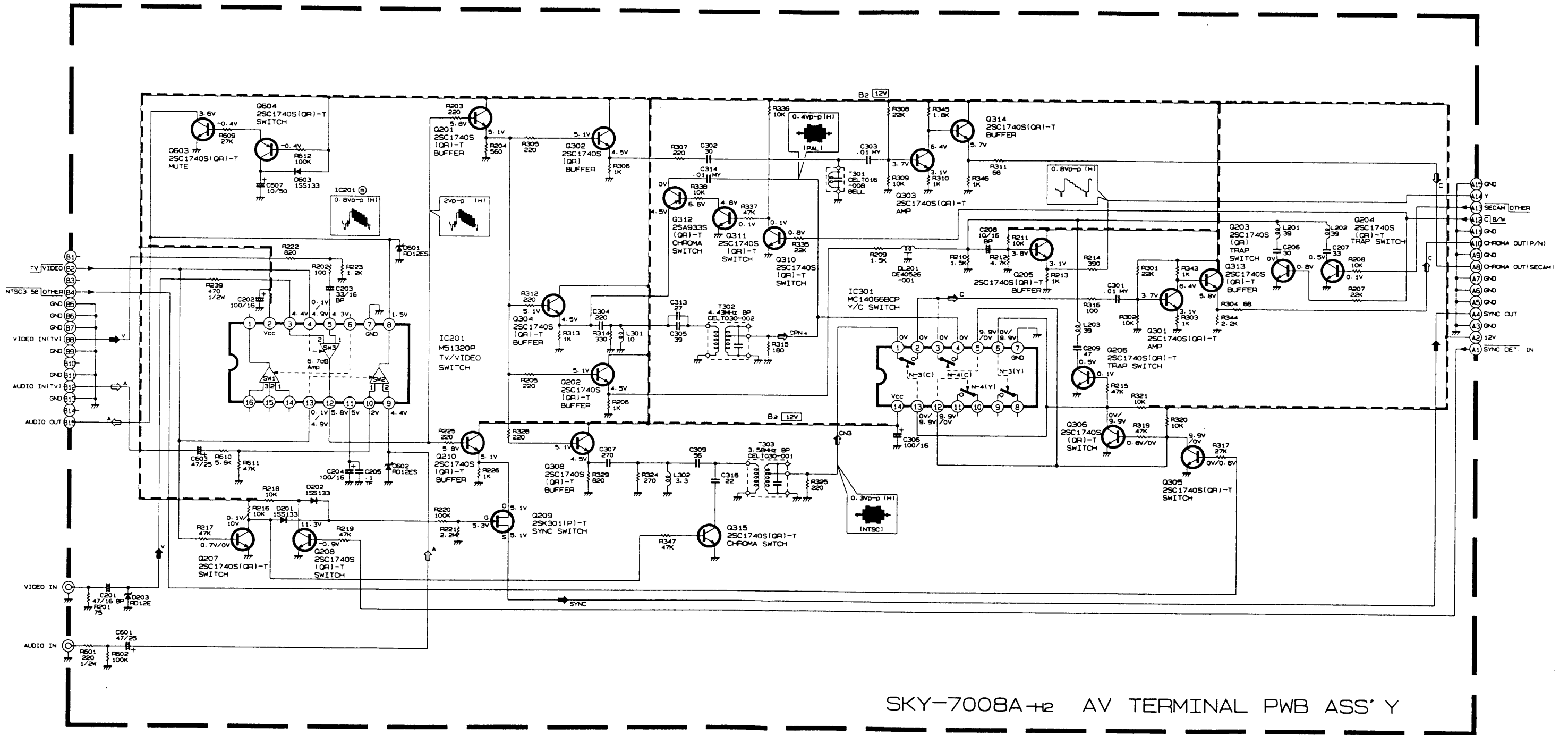


AV TERMINAL PWB CIRCUIT DIAGRAM

C-21T1

C-21T1

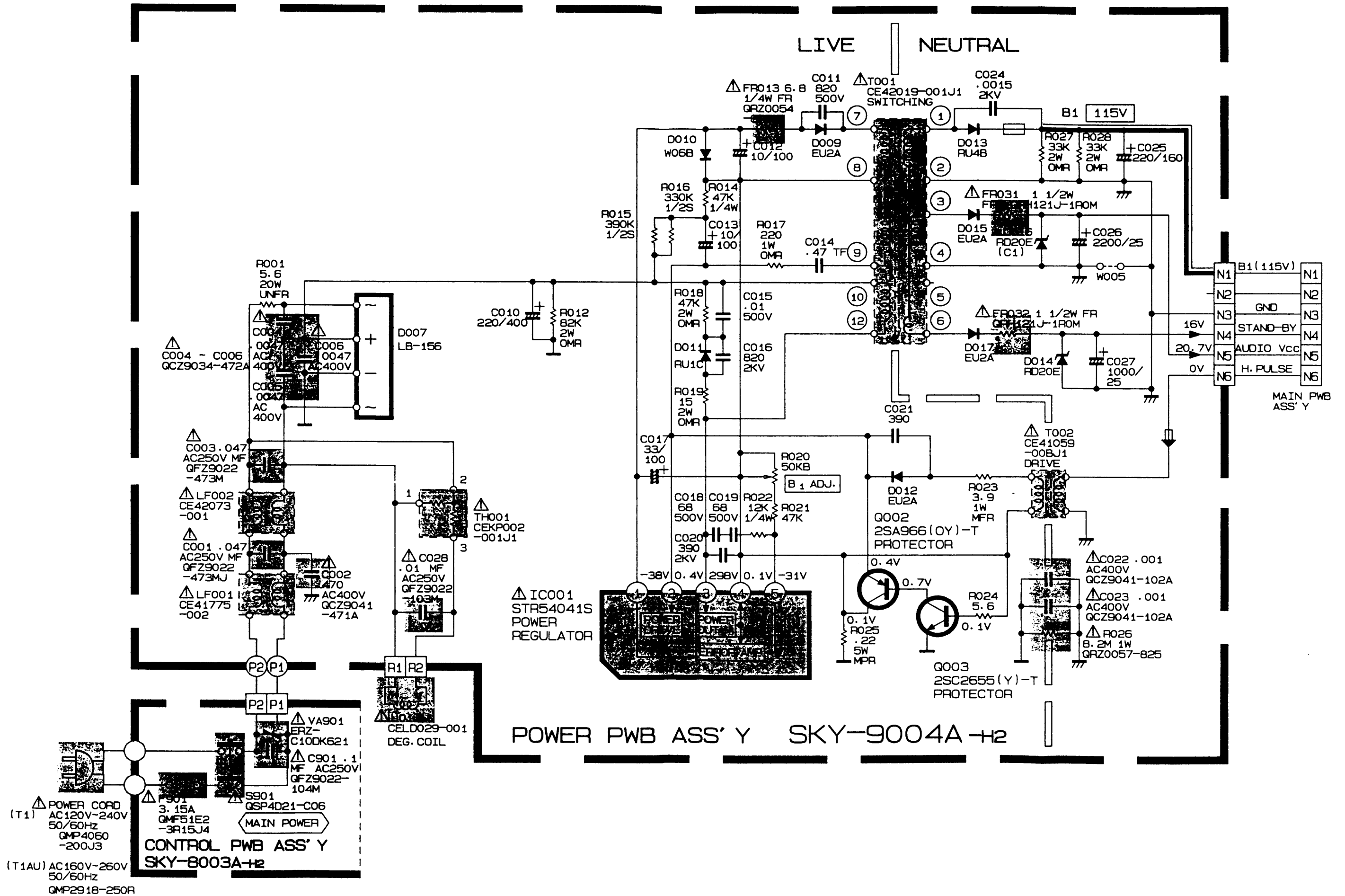
Refer to the following PWB pattern : AV TERMINAL PWB PATTERN 2-22page.



SKY-7008A+2 AV TERMINAL PWB ASS'Y

POWER PWB CIRCUIT DIAGRAM

Refer to the following PWB pattern : POWER PWB PATTERN 2-25page.



MAIN PWB PATTERN

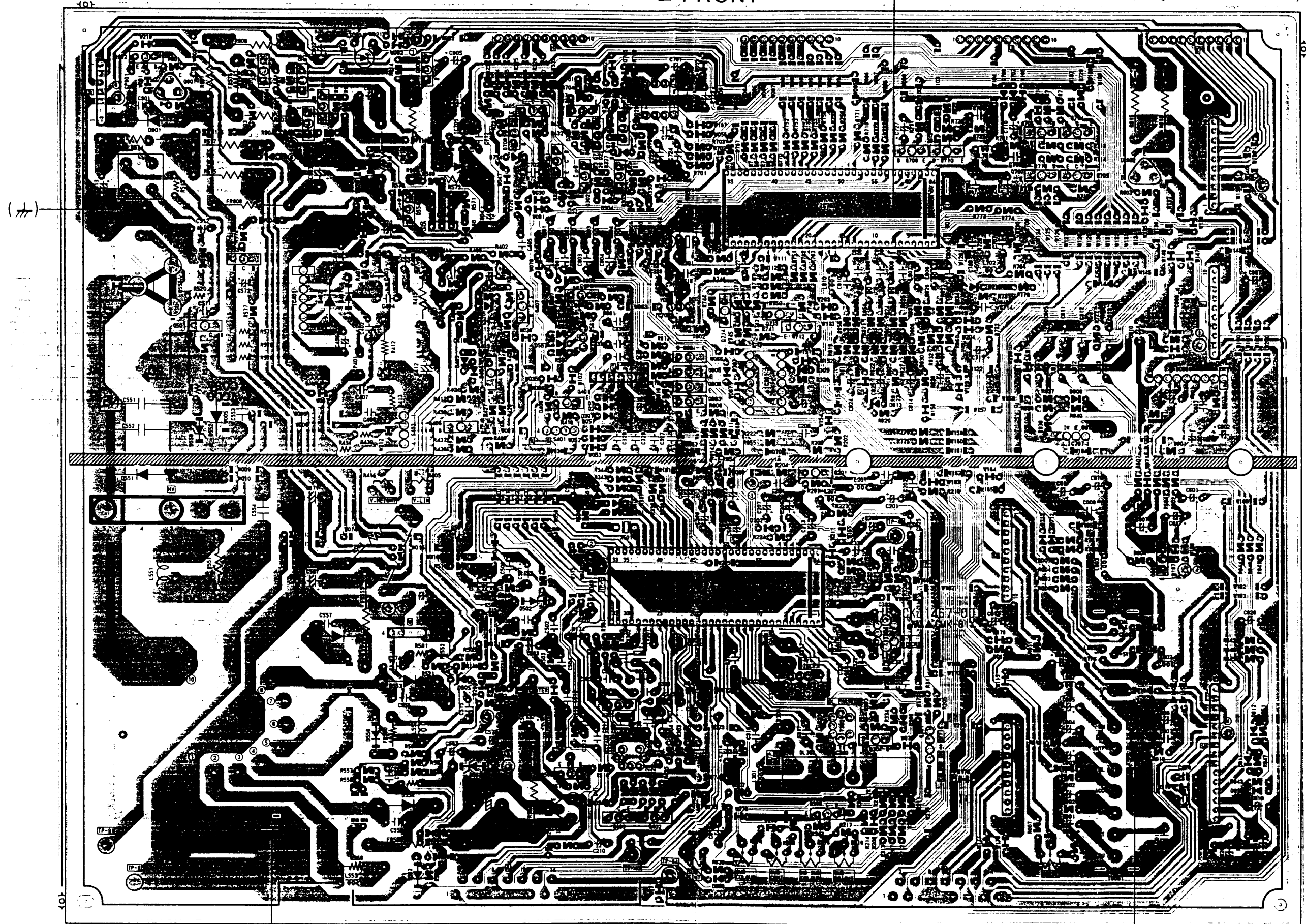
C-21T1

C-21T1

(SKY-1101A-H2)

↑ FRONT

(Magnification Rate 96%)



(//)

(No.50603) 2-19

2-20 (No.50603)

(//)

CRT SOCKET PWB PATTERN

(SKY-3001A-H2)

C-21T1

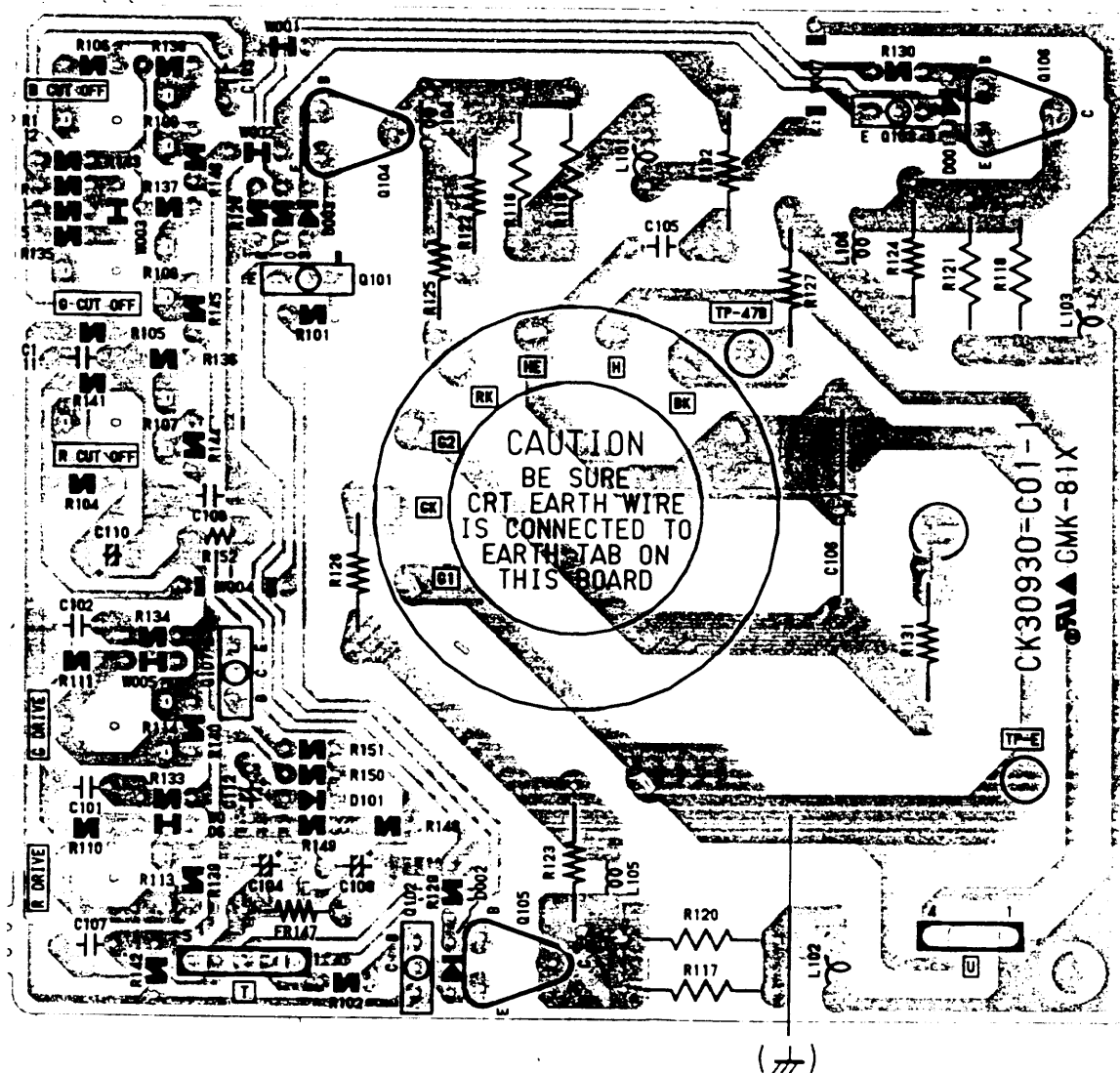
C-21T1

AV TERMINAL PWB PATTERN

(SKY-7008A-H2)

↑ TOP

(Magnification Rate 144%)

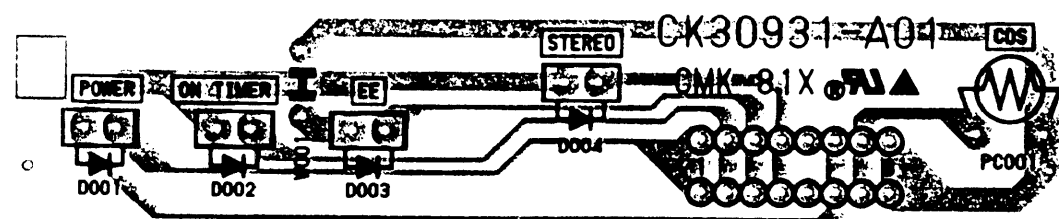


LED PWB PATTERN

(SKY-4003A-H2)

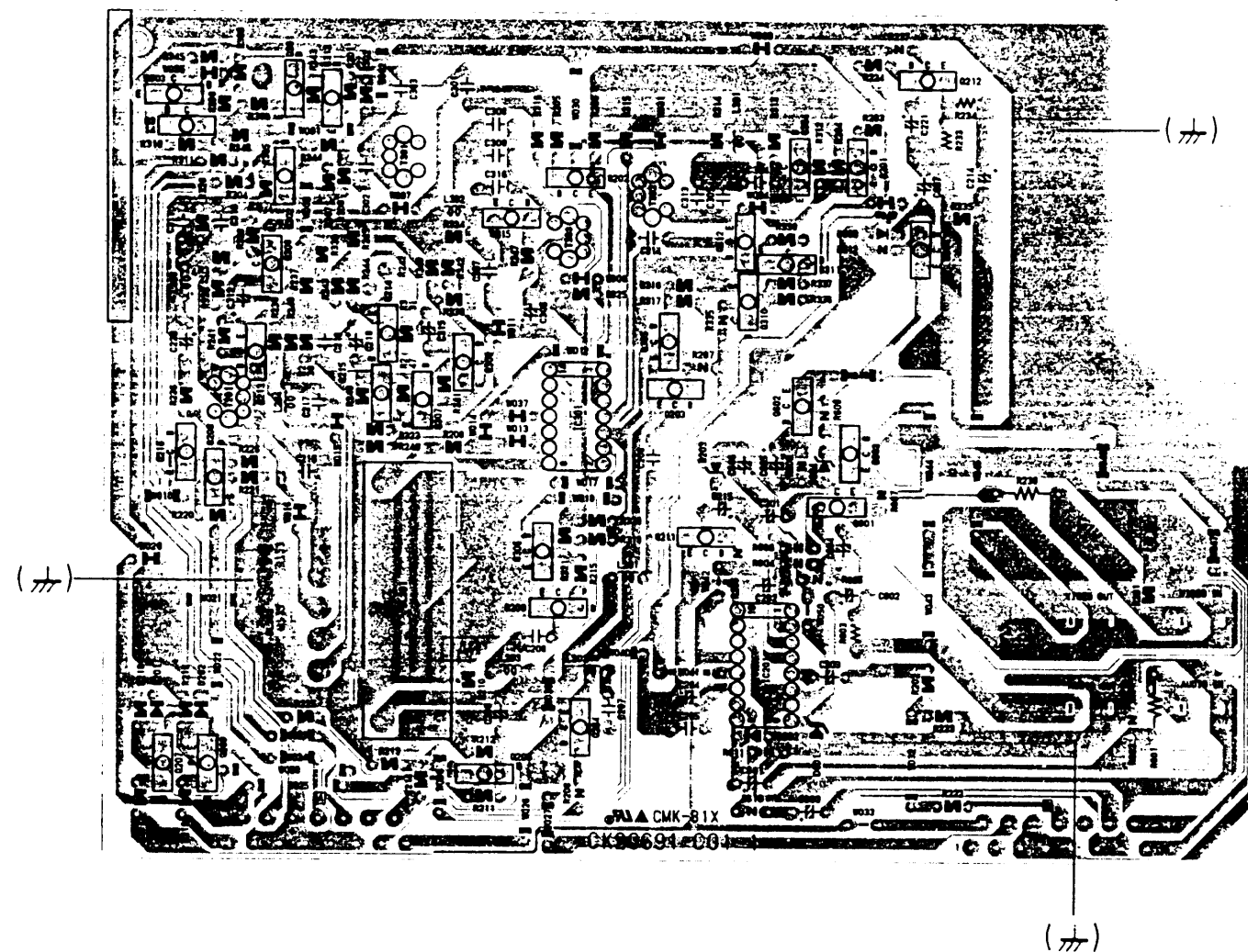
↑ TOP

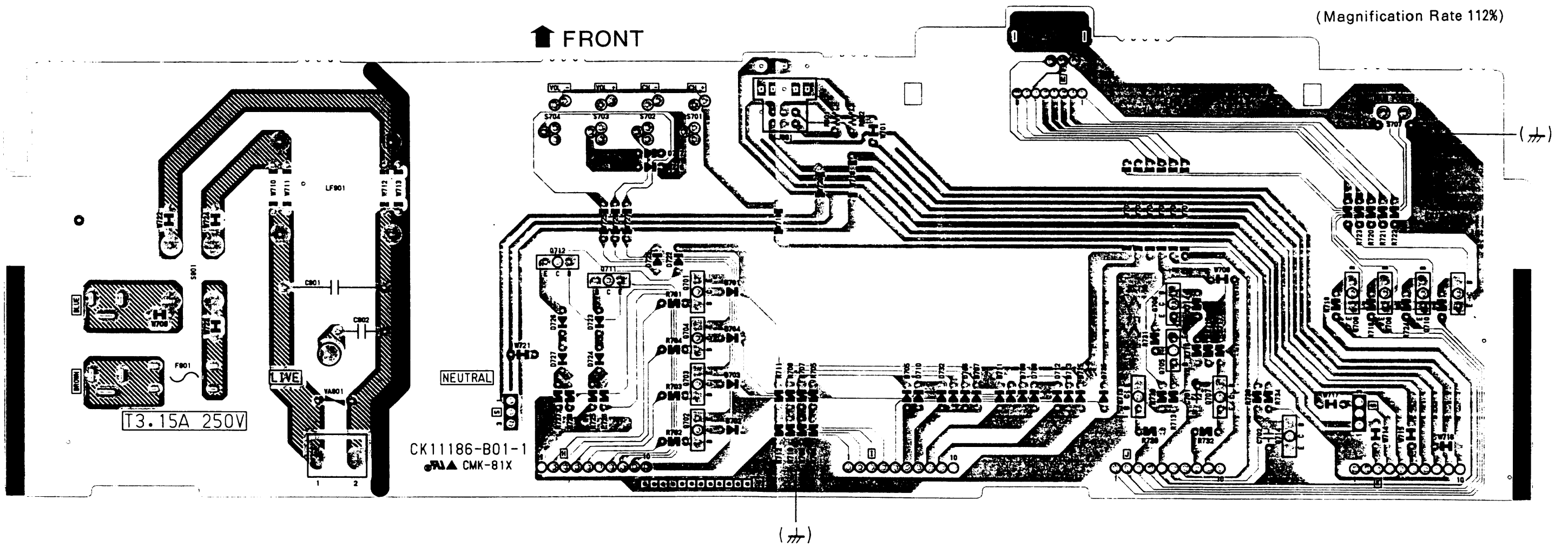
(Magnification Rate 174%)



↑ TOP

(Magnification Rate 90%)





↑ TOP (Magnification Rate 84%)

