

# JVC

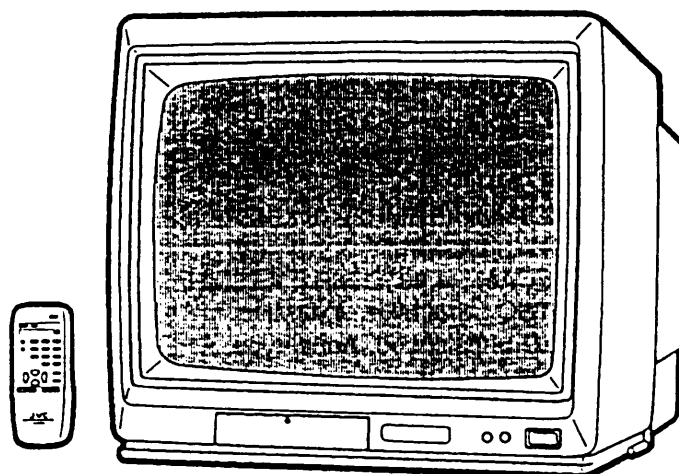
## SERVICE MANUAL

### 36cm (14") COLOUR TV


## C-14T1

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-14T1 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 Colour bar signal   |
| (2)Setting positions<br>of each knob/button<br>and variable resistor | :Original setting position<br>when shipped   |
| (3)Internal resistance of tester                                     | :DC 20k $\Omega$ /V  |
| (4)Oscilloscope sweeping time  | :H $\Rightarrow$ 20 $\mu$ S/div<br>:V $\Rightarrow$ 5mS/div<br>:Others $\Rightarrow$ Sweeping time is<br>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

- 1or 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]




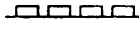
##### •Type

- 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



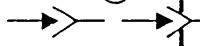
-  :B1(115V)  
 :B2(12V)  
 :9V  
 :5V

\* 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.

- (1) 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.
- (2) 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.

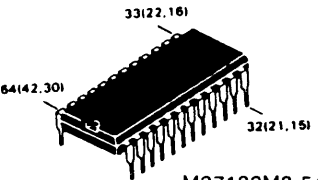
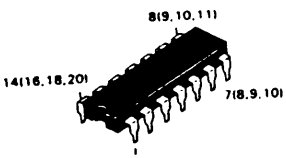
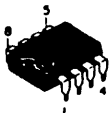



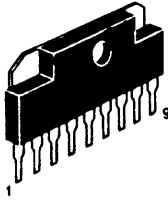

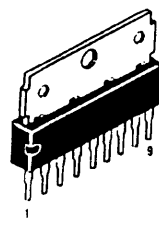
◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

## SEMICONDUCTOR SHAPES

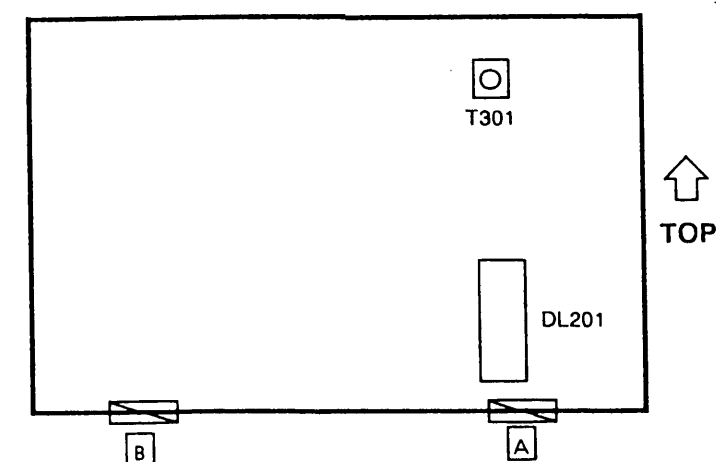
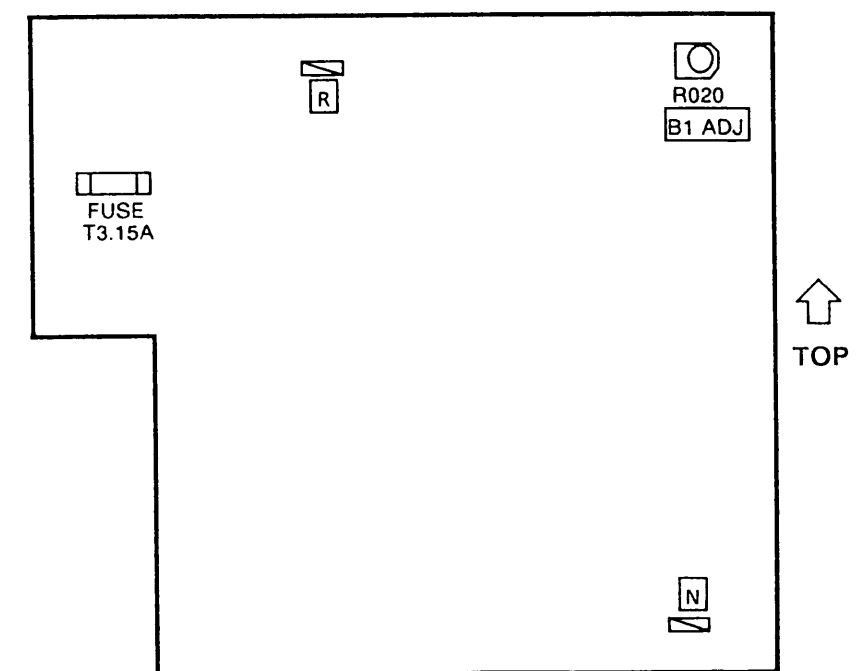
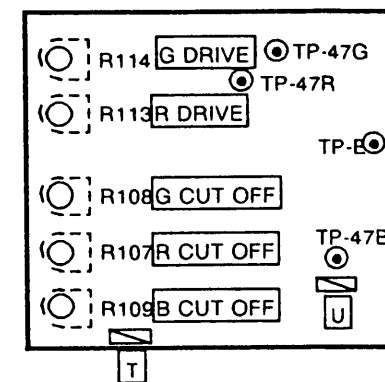
## TRANSISTORS

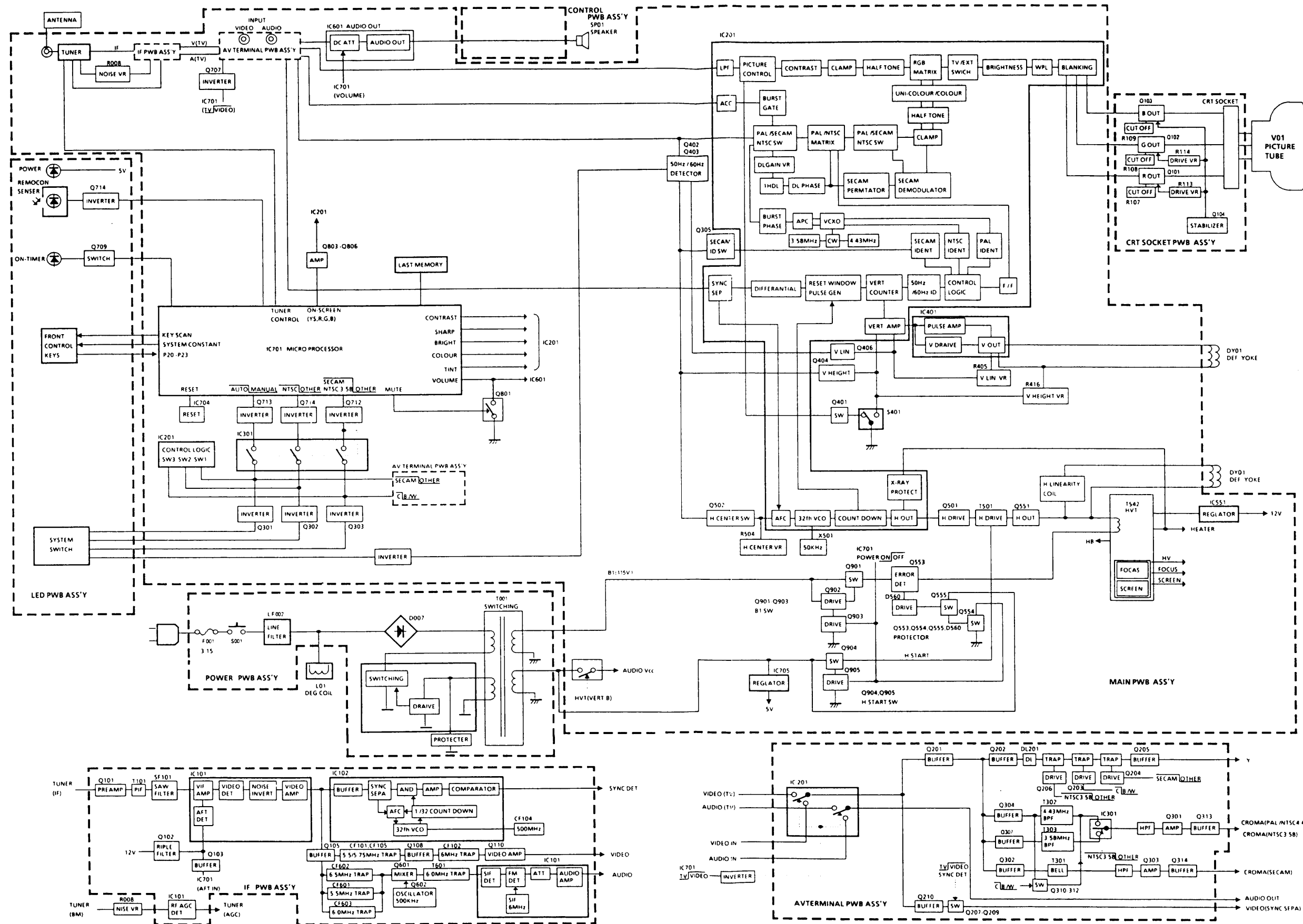
 <p>2SC1740S(QR)-T</p>	 <p>2SC1627A(OY)-T 2SC1959(Y) 2SA933S(QR)-T</p>	 <p>2SK301(P)-T</p>
 <p>SF0R3B42(C1)</p>	 <p>2SA1370(E) 2SA1013(RO)-T 2SC2655(Y)-T 2SA966(OY)-T 2SC2229(Y)-T</p>	 <p>2SD1274A-C1 2SD1555-C1</p>
 <p>2SC2068-LB</p>	 <p>2SD1554-C1</p>	

## ICS

 <p>33(22,16) 64(42,30) 32(21,15) 1 M37102M8-548SP TA8659AN</p>	 <p>8(9,10,11) 14(16,18,20) 7(8,9,10) MC14066BCP M51320P</p>	 <p>5 8 4 M6M80041P</p>
 <p>OUT E IN AN78L05</p>	 <p>1 2 3 AN7812</p>	 <p>5 7 4 STR54041S</p>
 <p>9 1 UPC1488H</p>	 <p>OUT V<sub>oo</sub> V<sub>ss</sub> MN1280-Q</p>	 <p>9 1 AN5265</p>

P)-T

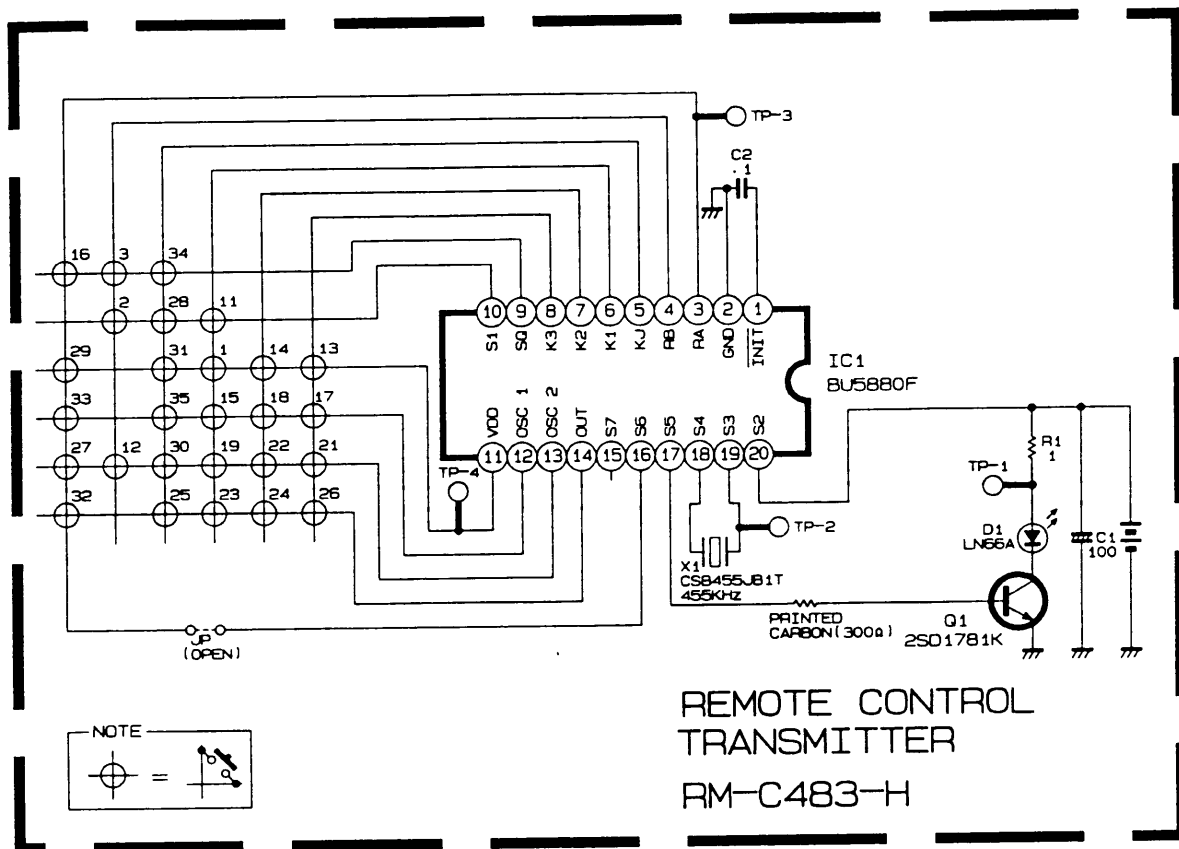




## CIRCUIT DIAGRAMS AND PWB PATTERNS

## REMOTE CONTROL TRANSMITTER CIRCUIT DIAGRAMS

[RM-C483-H]



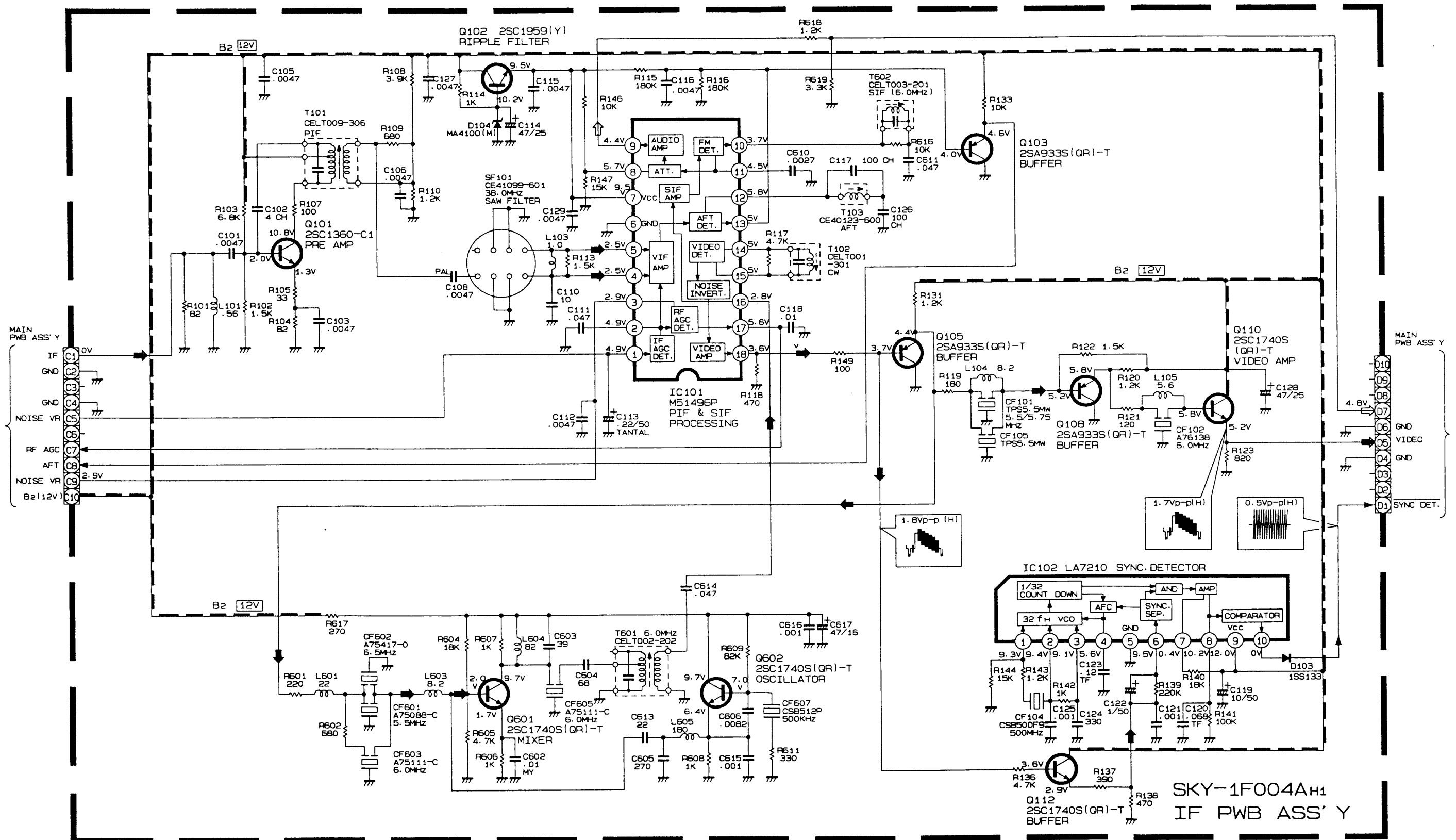
## FUNCTION OF KEYS

KEY NO.	KEY NAME	KEY NO.	KEY NAME	KEY NO.	KEY NAME
1	POWER	17	4	27	- (FUNCTION)
2	TV	18	5	28	+ (FUNCTION)
3	VIDEO	19	6	29	▼(FUNCTION)
11	COLOUR SYSTEM	21	7	30	VSM
12	MENU	22	8	31	MUTE
13	1	23	9	32	CHANNEL▼
14	2	24	0	33	CHANNEL^
15	3	25	--	34	VOLUME -
16	DISPLAY	26	▲(FUNCTION)	35	VOLUME +

## WIRLING LIST

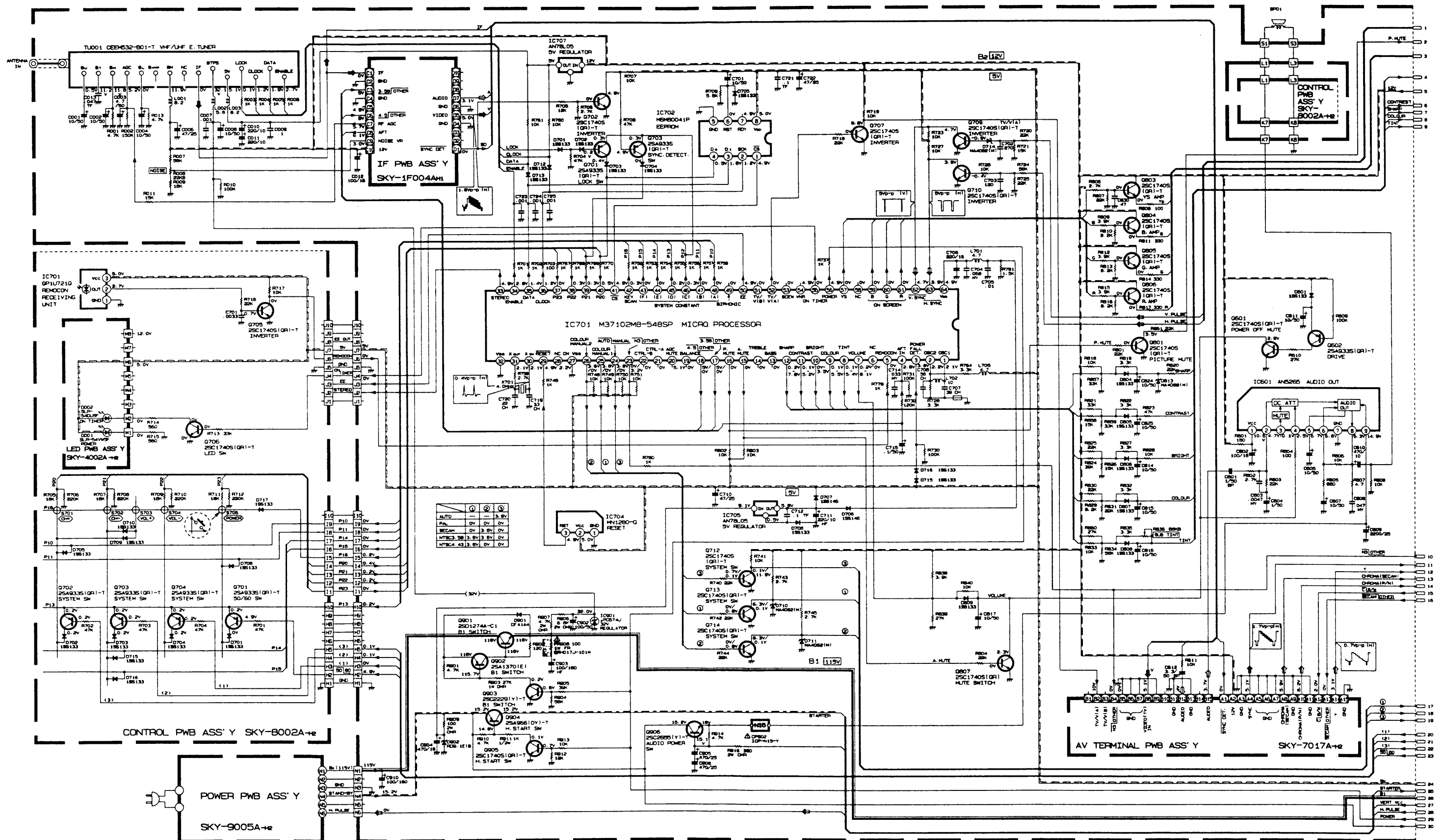
P.C.B. or PART NAME	CONNECTOR NAME	WIRE	CONNECTOR NAME	P.C.B. or PART NAME
MAIN PWB ASS'Y	T	↔	T	CRT SOCKET PWB ASS'Y
MAIN PWB ASS'Y	U	↔	U	CRT SOCKET PWB ASS'Y
MAIN PWB ASS'Y	N	↔	N	POWER PWB ASS'Y
MAIN PWB ASS'Y	HV	↔	WIRE	DEF.YOKE
MAIN PWB ASS'Y	S	↔	+, -	SPEAKER
CONTROL PWB ASS'Y	J	↔	J	MAIN PWB ASS'Y
CONTROL PWB ASS'Y	K	↔	K	MAIN PWB ASS'Y
CONTROL PWB ASS'Y	I	↔	I	MAIN PWB ASS'Y
CONTROL PWB ASS'Y	H	↔	H	MAIN PWB ASS'Y
CONTROL PWB ASS'Y	L	↔	L	MAIN 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.

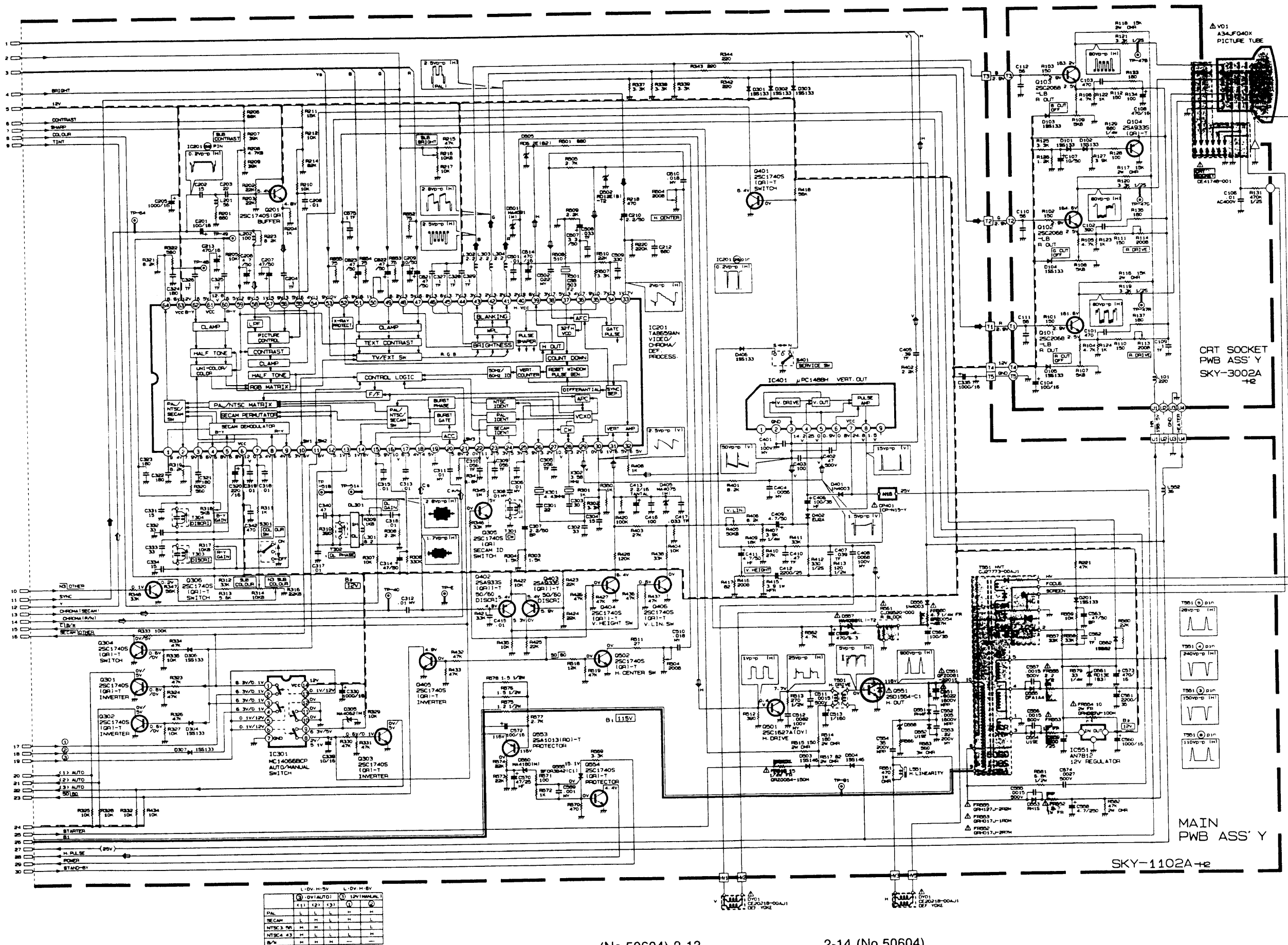


## MAIN PWB, LED PWB, CONTROL PWB CIRCUIT DIAGRAMS

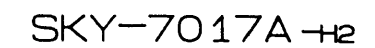
Refer to the following PWB pattern : LED PWB PATTERN 2-21page, CONTROL PWB PATTERN 2-23page.



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

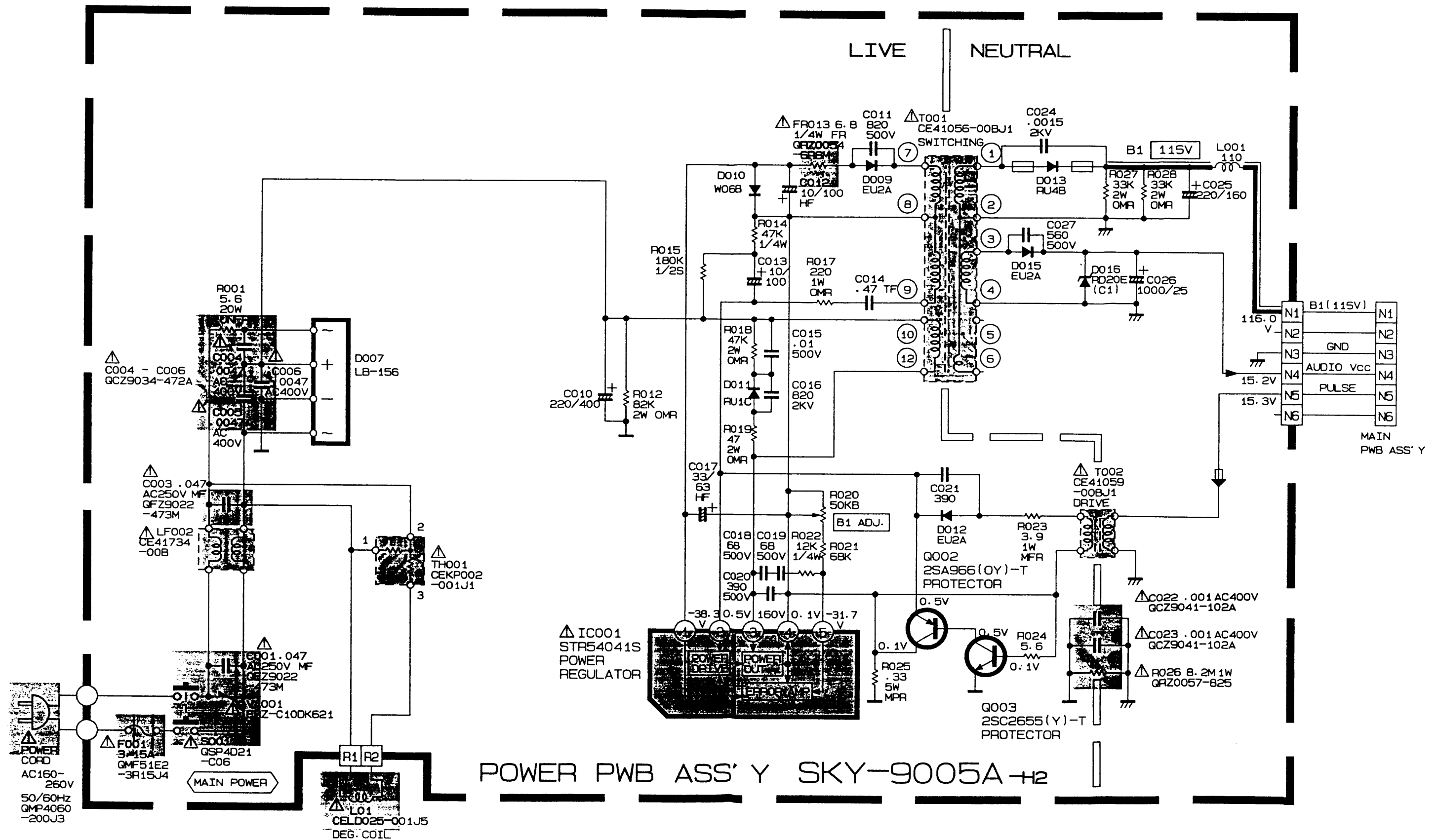


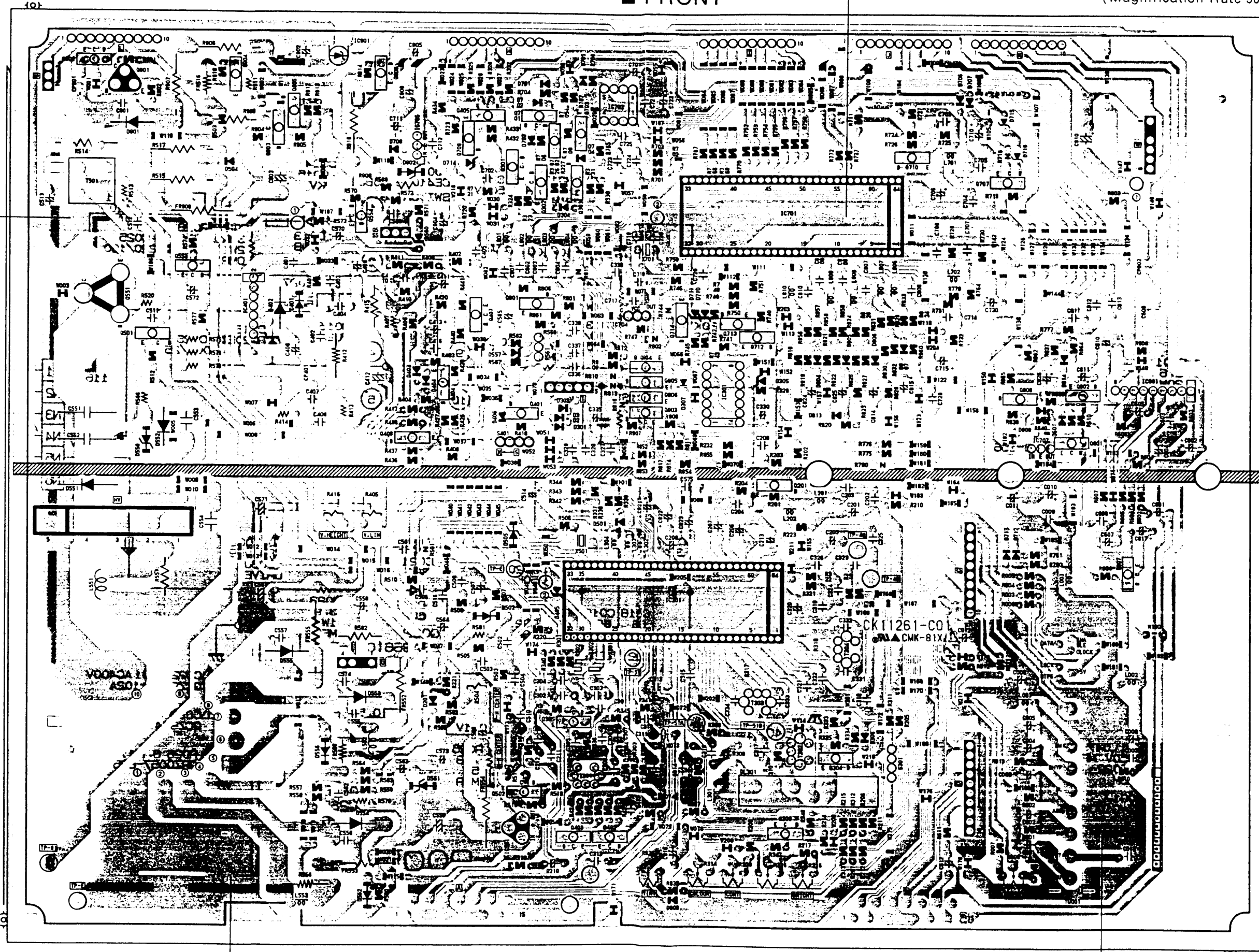
Refer to the following PWB pattern. : AV TERMINAL PWB PATTERN 2-22page.



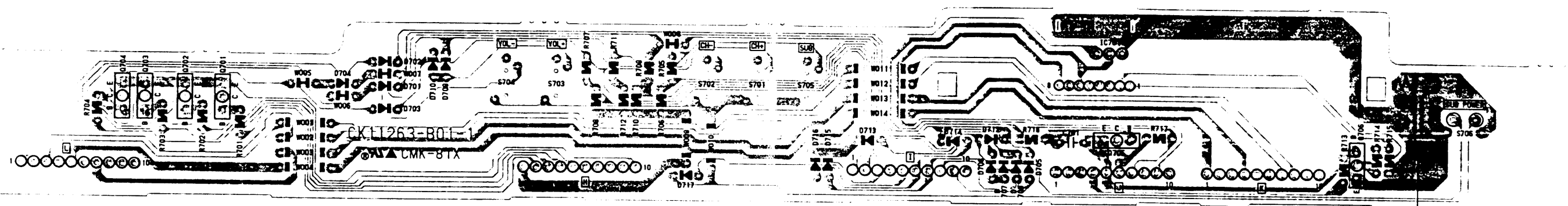
## POWER PWB CIRCUIT DIAGRAM

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





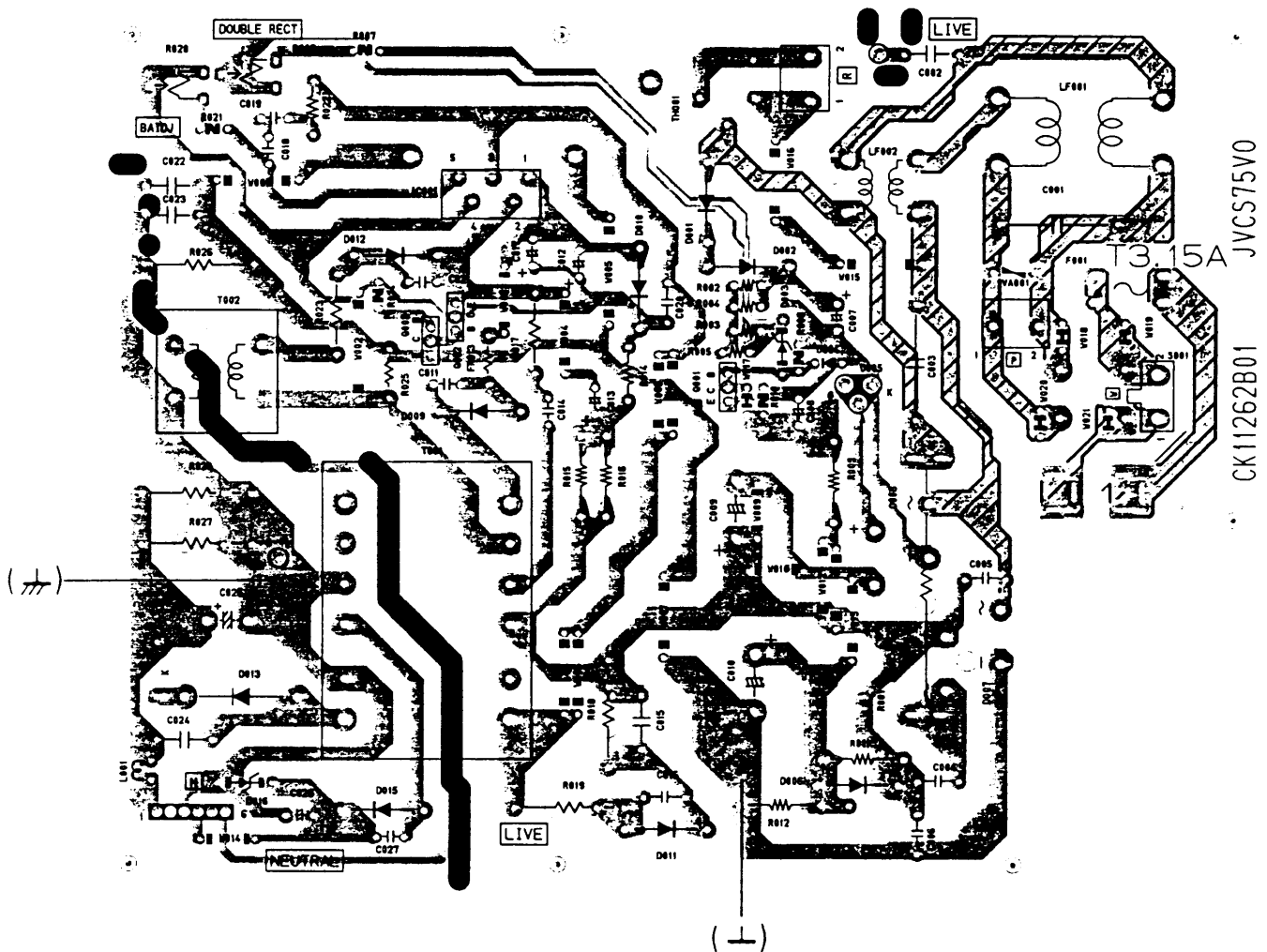




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↑ TOP

(Magnification Rate 76%)



↑ TOP

(Magnification Rate 148%)

