

JVC

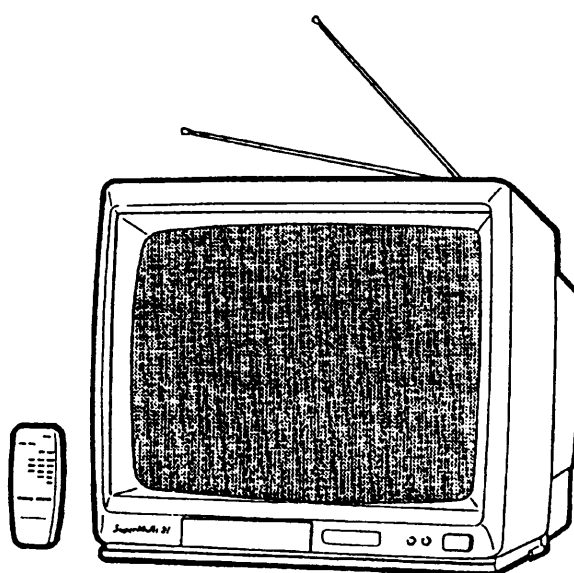
SERVICE MANUAL

36cm (14") COLOUR TV

C-14M1

BASIC CHASSIS

KY



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C-14M1 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 : 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 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 : 1/6[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 : [μ 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 [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



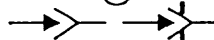
-  : B1 (116V)
-  : B2 (12V)
-  : 15.5V
-  : 9V
-  : 5V

* 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 : \perp) 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



2SC1740S(QR)
DTC124ES
2SA933S(QR)



2SC1815(B)
2SC1959(Y)



2SC1360
2SA1013(RO)
2SC2655(Y)
2SA966
2SA1370(E)
2SC2229(Y)
2SA966(OY)
2SC1627A(OY)



2SK301(P)



SFOR1A42



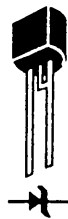
2SD1555-C1
2SD1274A-C1



2SC2068



2SC4502



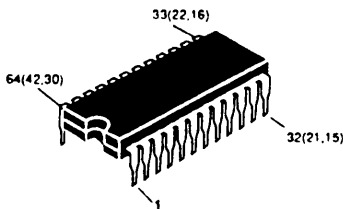
IC
μPC574J



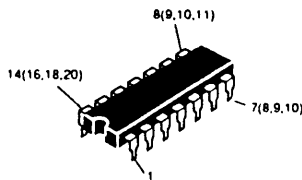
IC
AN78L05



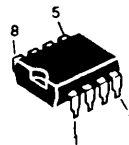
IC
PST529E



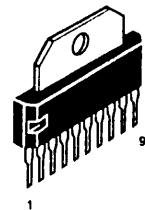
IC
M37102M8-548SP
TA8659AN



IC
MC14066BCP
M51496P
M51320P



IC
M6M80041P



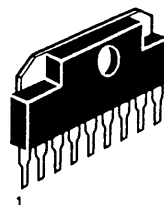
IC
AN5265



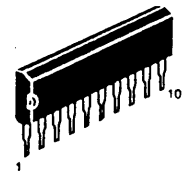
IC
AN7812



IC
STR54041S

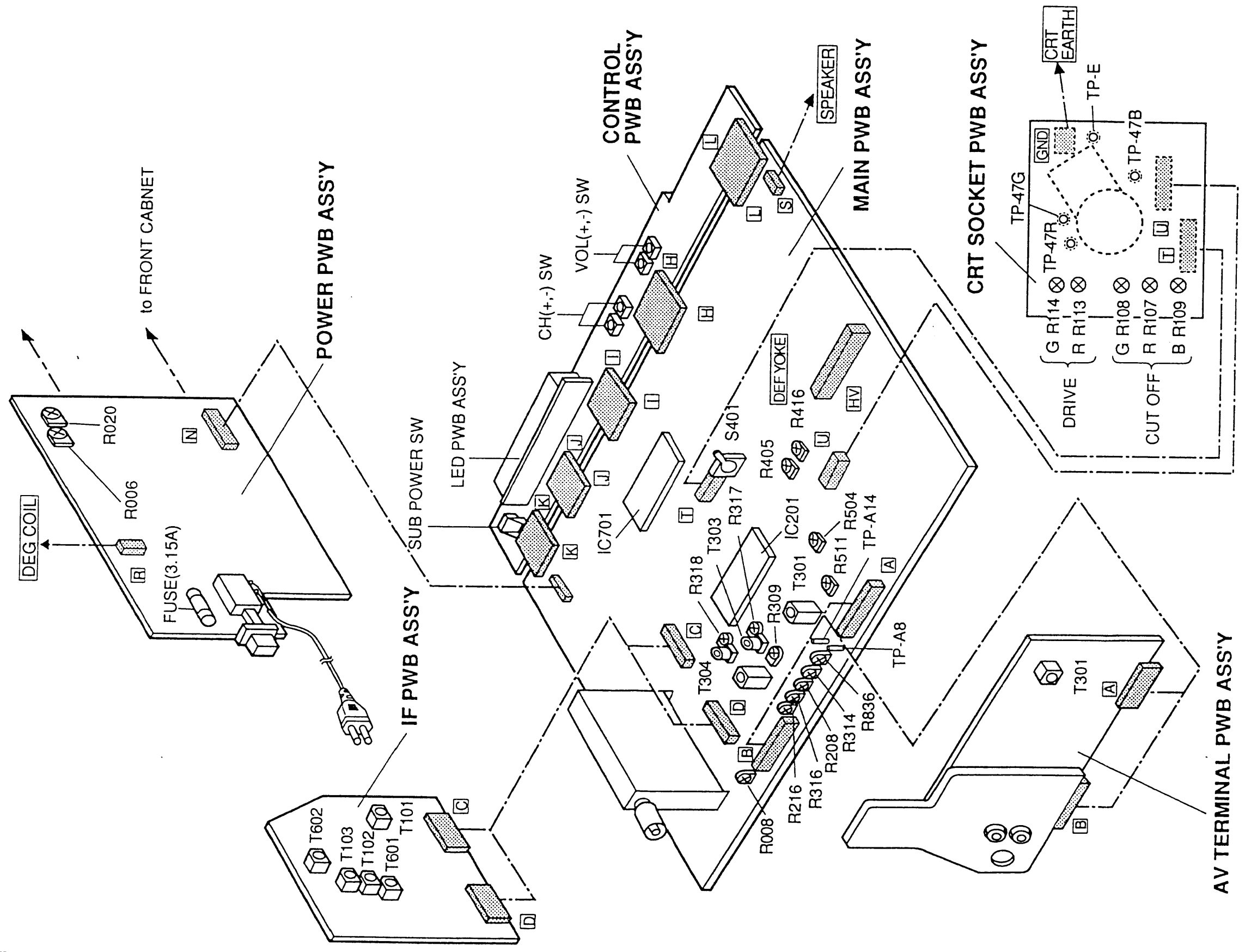


IC
μPC1488H



IC
LA7210

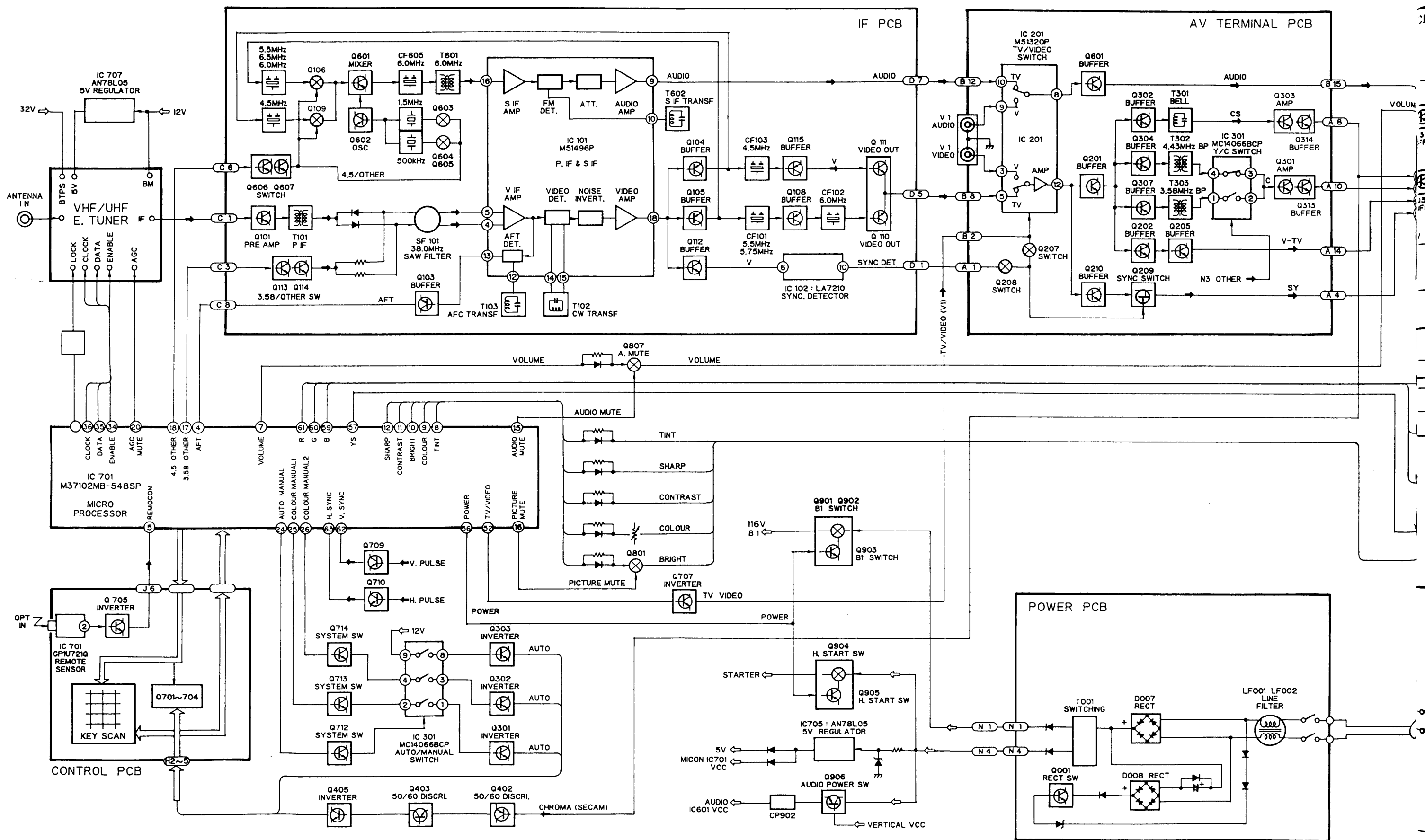
MAIN PARTS LOCATION AND ALIGNMENTS LOCATION

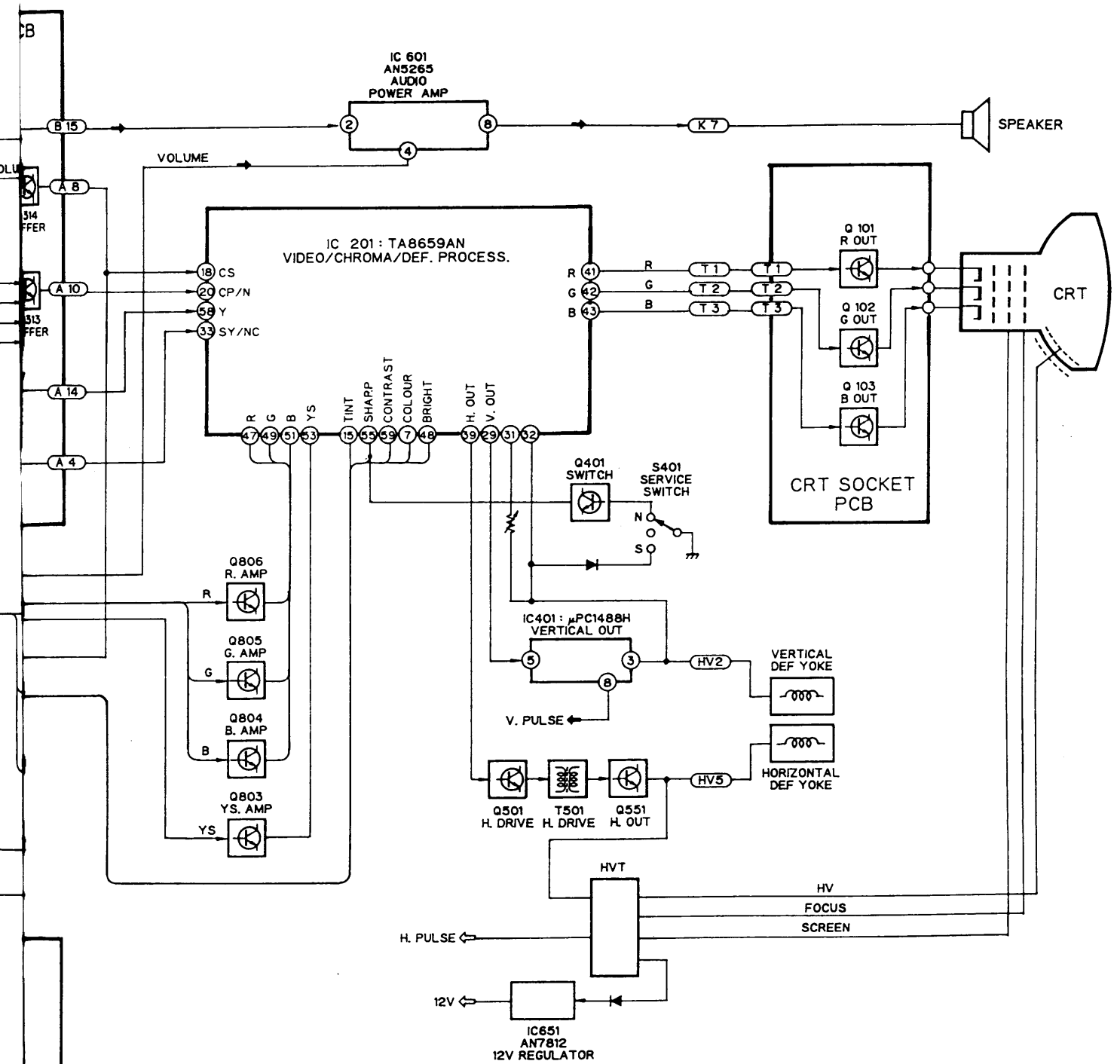


WIRING LIST

CONNECTOR	P.W.B. or PART	CONNECTOR	P.W.B. or PART
A	SKY-1002A	A	SKY-7002A
B	SKY-1002A	B	SKY-7002A
C	SKY-1002A	C	SKY-1F001A
D	SKY-1002A	D	SKY-1F001A
H	SKY-1002A	H	SKY-8002A
I	SKY-1002A	I	SKY-8002A
J	SKY-1002A	J	SKY-8002A
K	SKY-1002A	K	SKY-8002A
L	SKY-1002A	L	SKY-8002A
N	SKY-1002A	N	SKY-9002A
R	SKY-9002A		DEG. COIL
S	SKY-1002A		SPEAKER
T	SKY-1002A	T	SKY-3002A
U	SKY-1002A	U	SKY-3002A
HV	SKY-1002A		DEF. YOKE
GND	SKY-1002A		CRT

BLOCK DIAGRAM

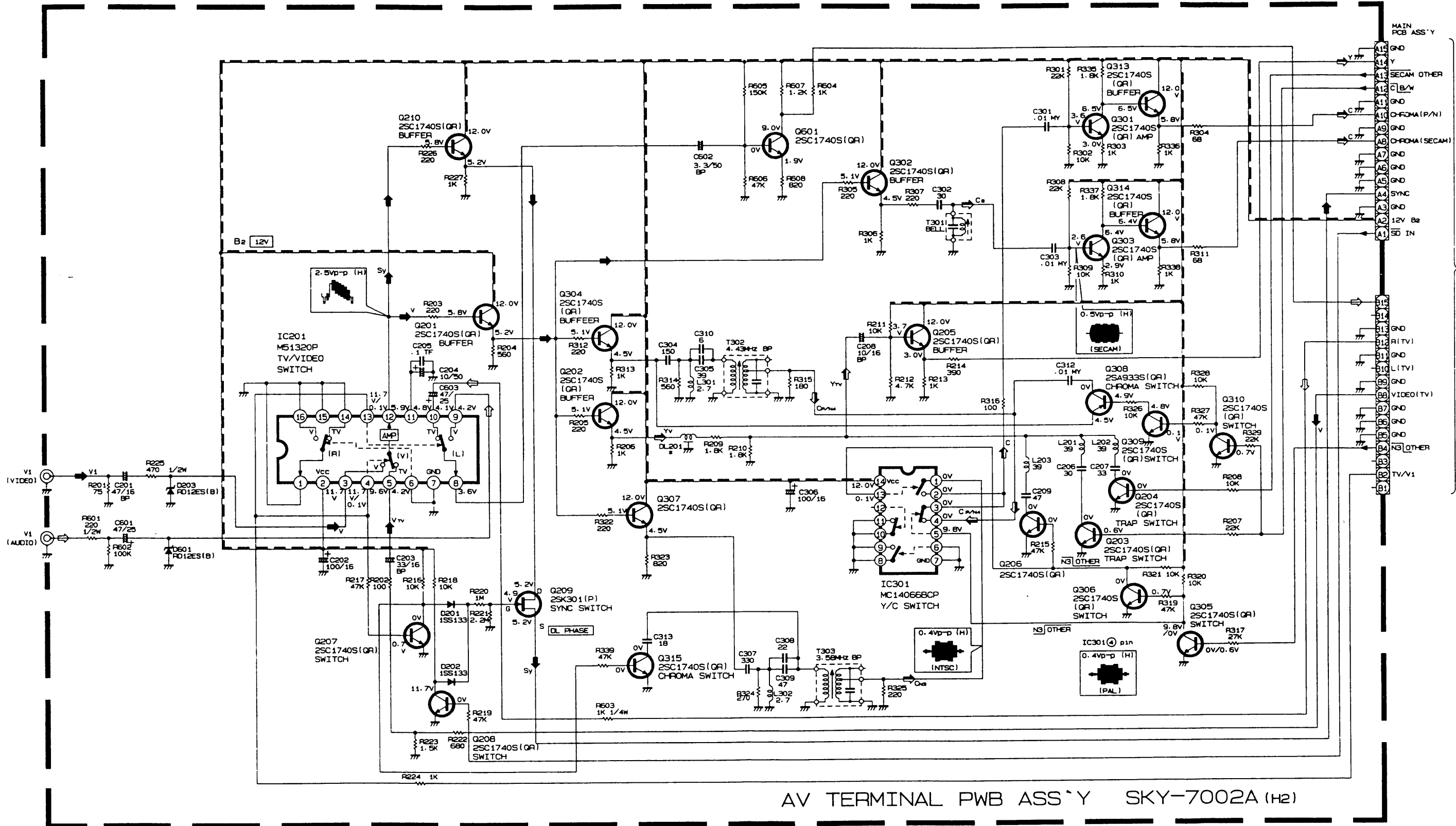




CIRCUIT DIAGRAMS AND PWB PATTERNS

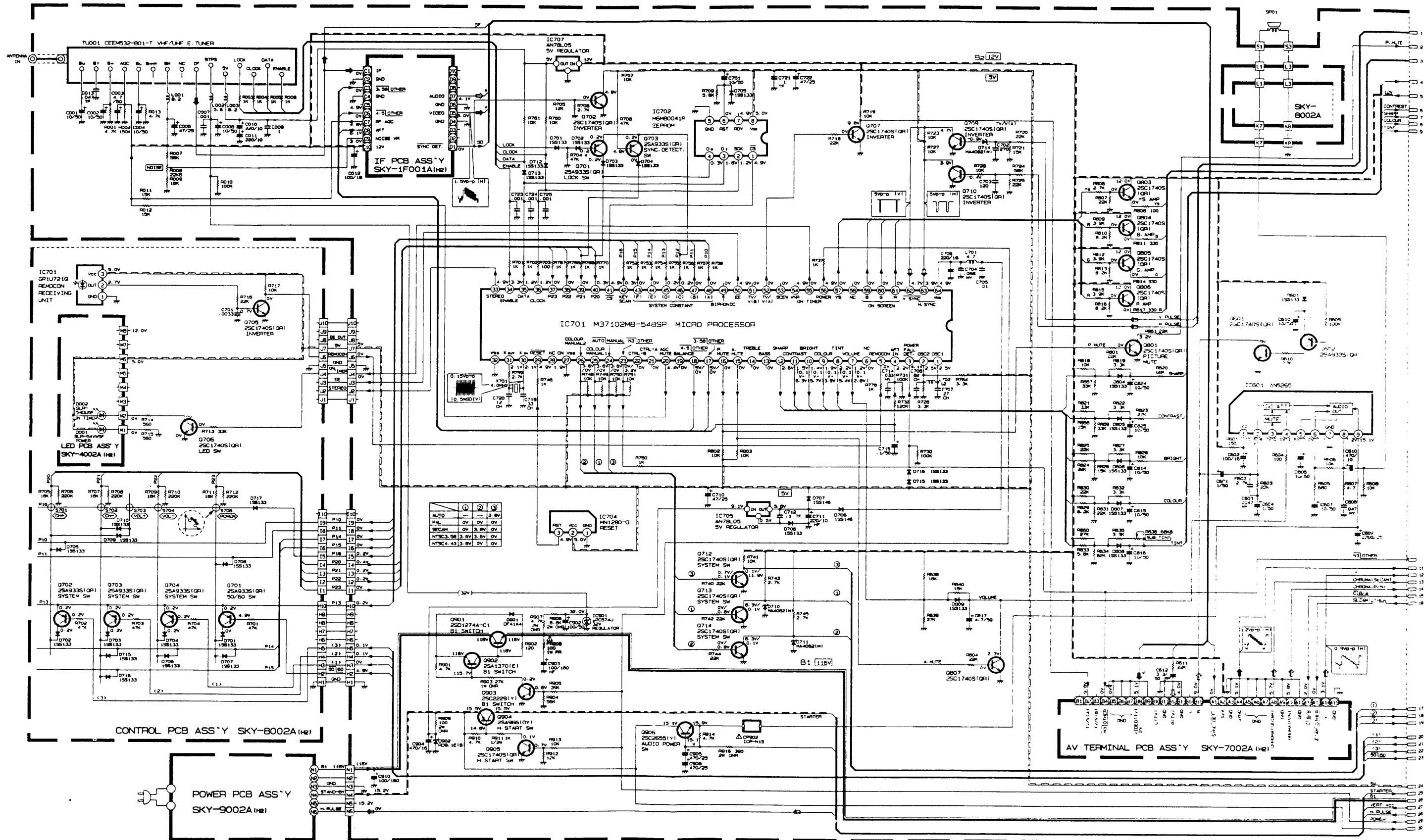
AV TERMINAL PWB CIRCUIT DIAGRAMS

REFER TO THE FOLLOWING PWB PATTERN; AV TERMINAL PWB 2-20 page.



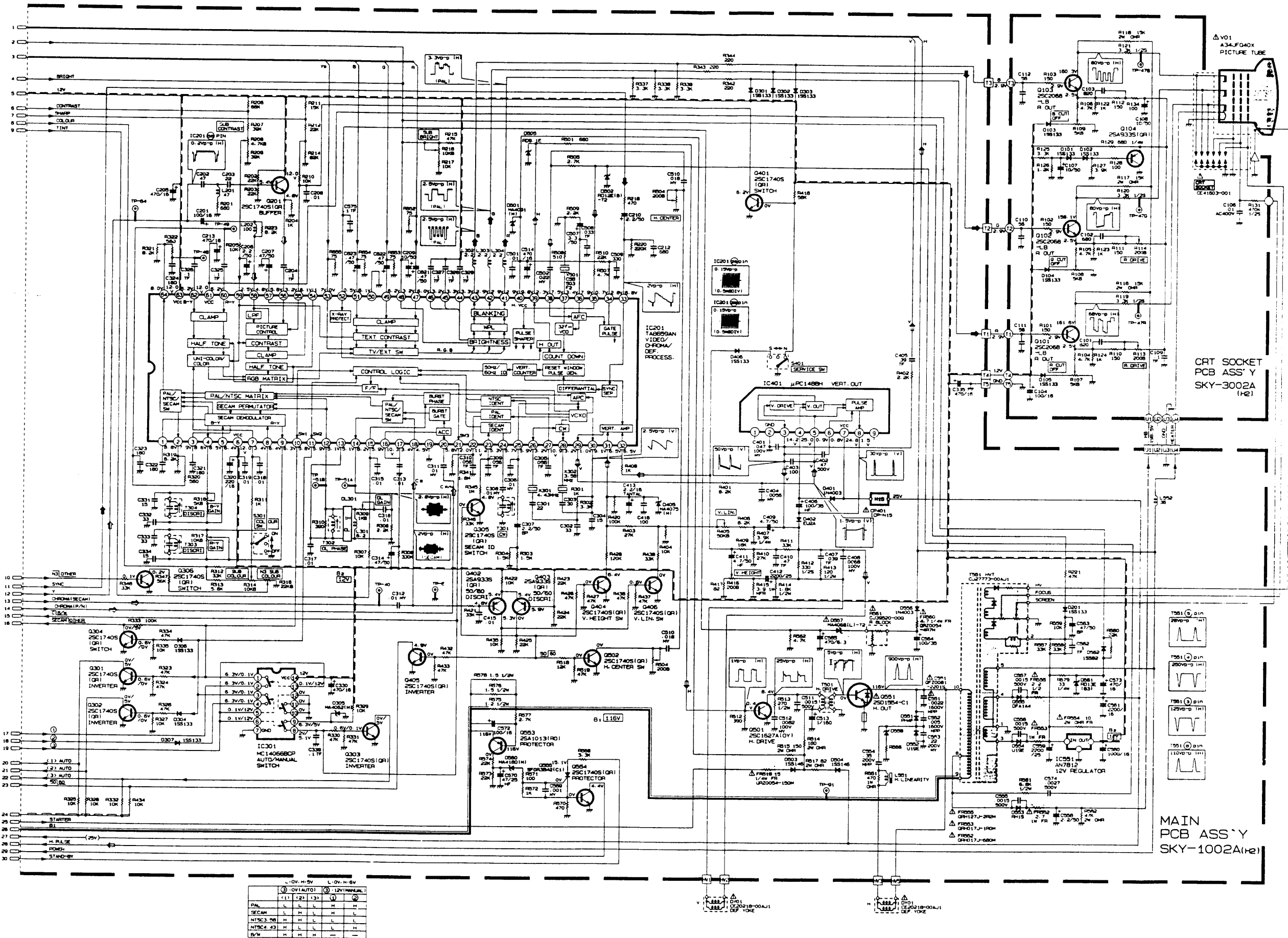
MAIN PWB, CONTROL PWB, LED PWB CIRCUIT DIAGRAMS

REFER TO THE FOLLOWING PWB PATTERN; MAIN PWB 2-17 page, CONTROL PWB 2-21 page LED PWB 2-21 page.



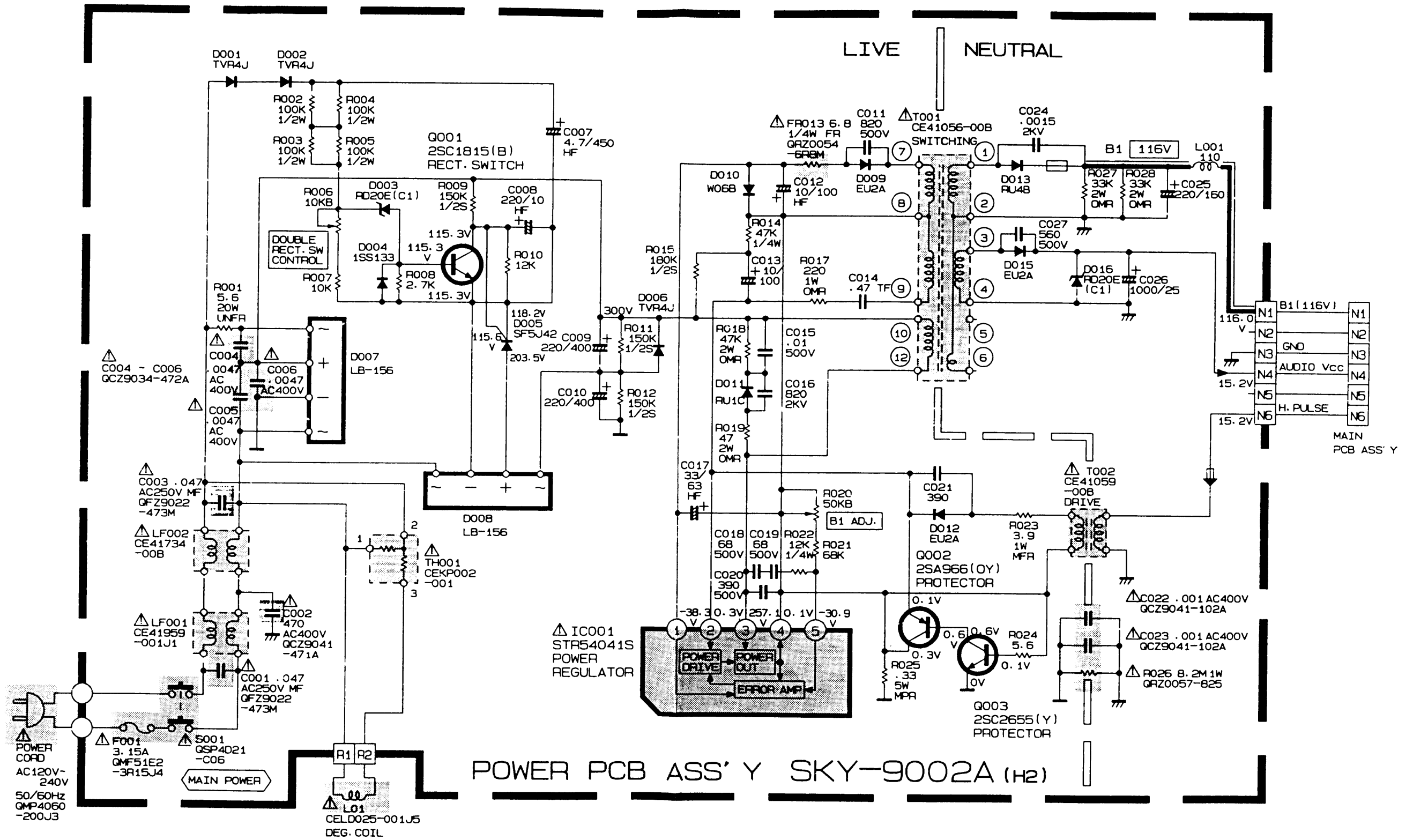
MAIN PWB, CRT SOCKET PWB CIRCUIT DIAGRAMS

REFER TO THE FOLLOWING PWB PATTERN; MAIN PWB 2-17 page CRT SOCKET PWB 2-19 page.



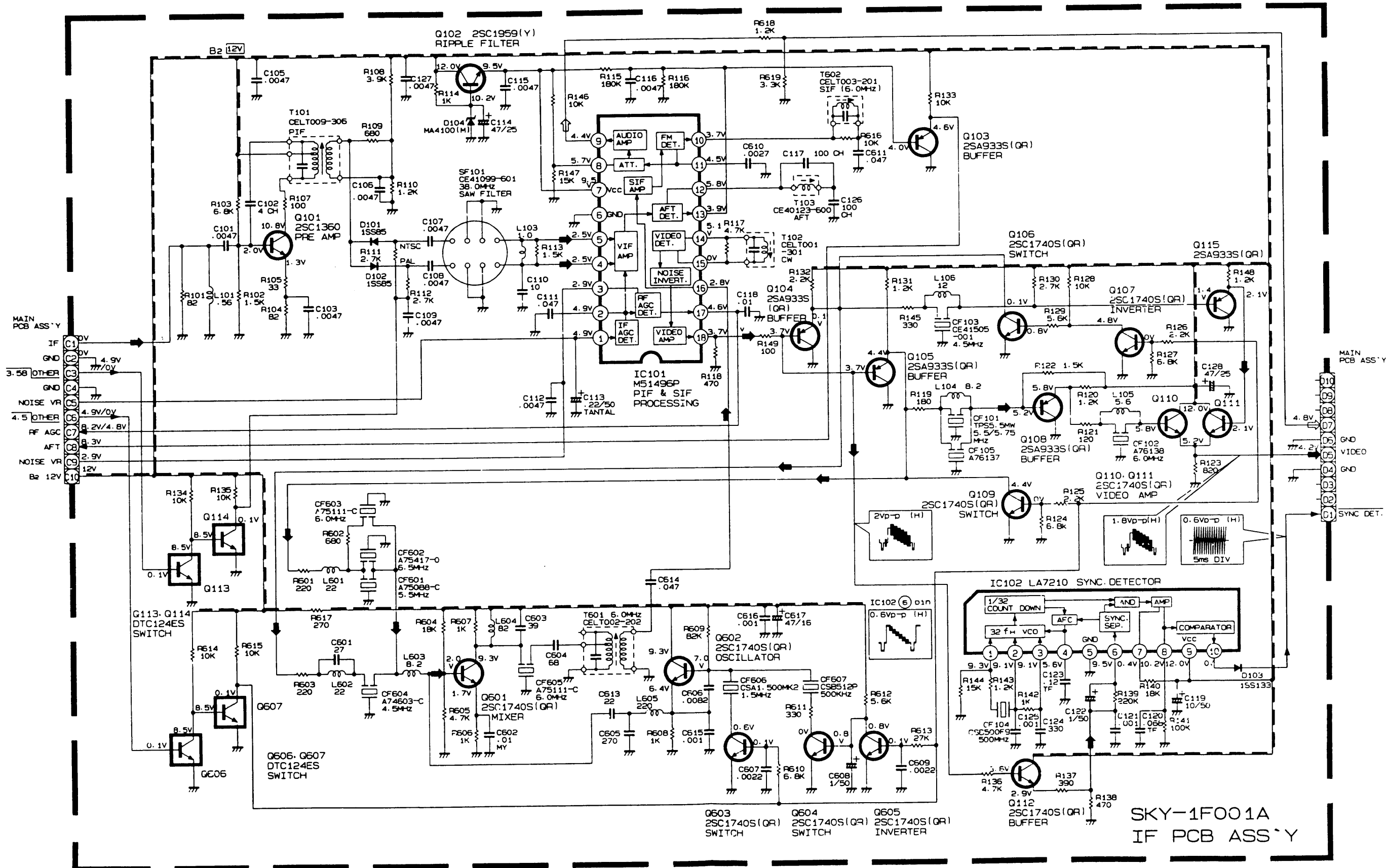
POWER PWB CIRCUIT DIAGRAMS

REFER TO THE FOLLOWING PWB PATTERN; POWER PWB 2-22 page.



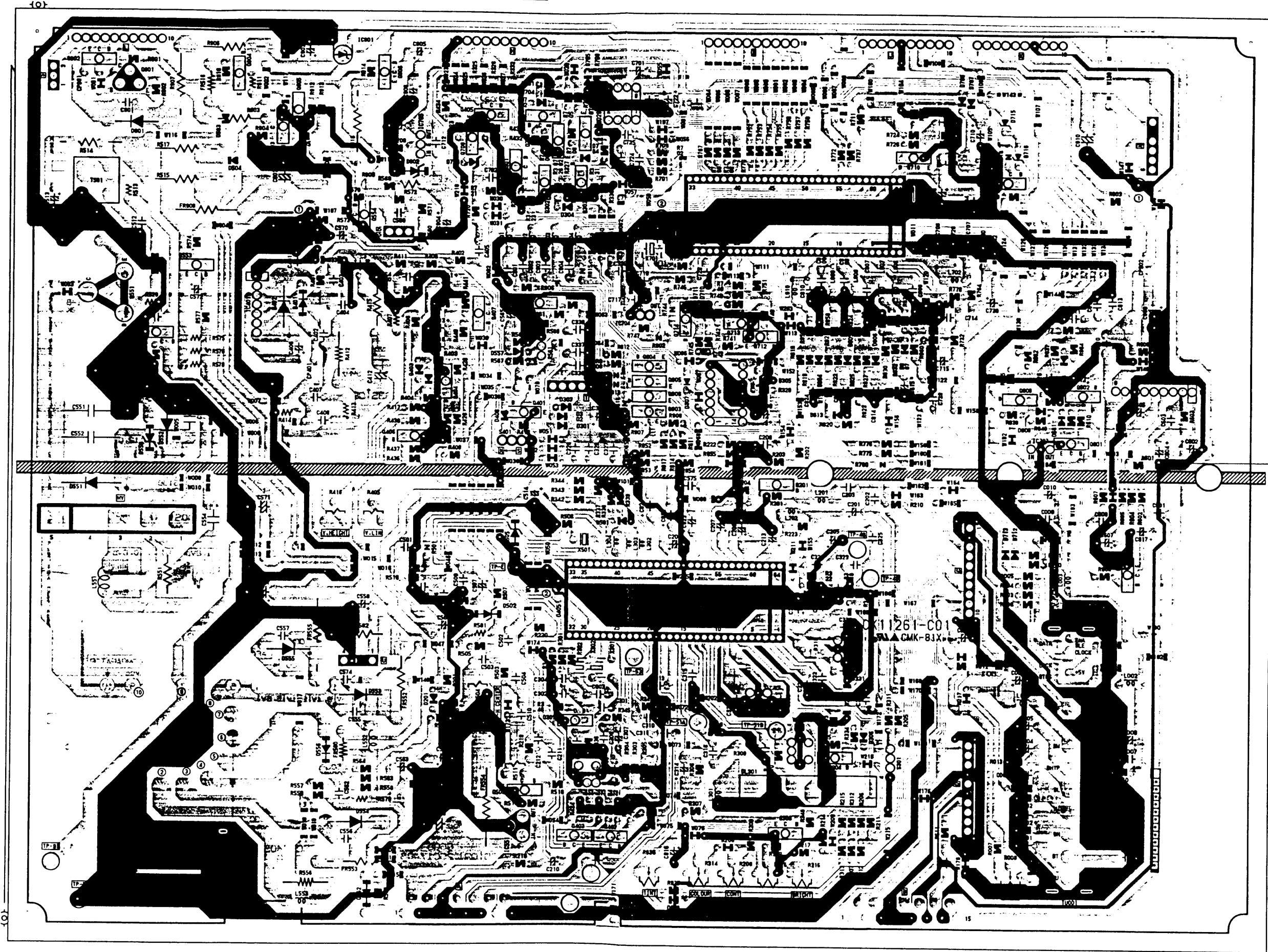
IF PWB CIRCUIT DIAGRAMS

REFER TO THE FOLLOWING PWB PATTERN; IF PWB 2-23 page.



MAIN PWB PATTERN

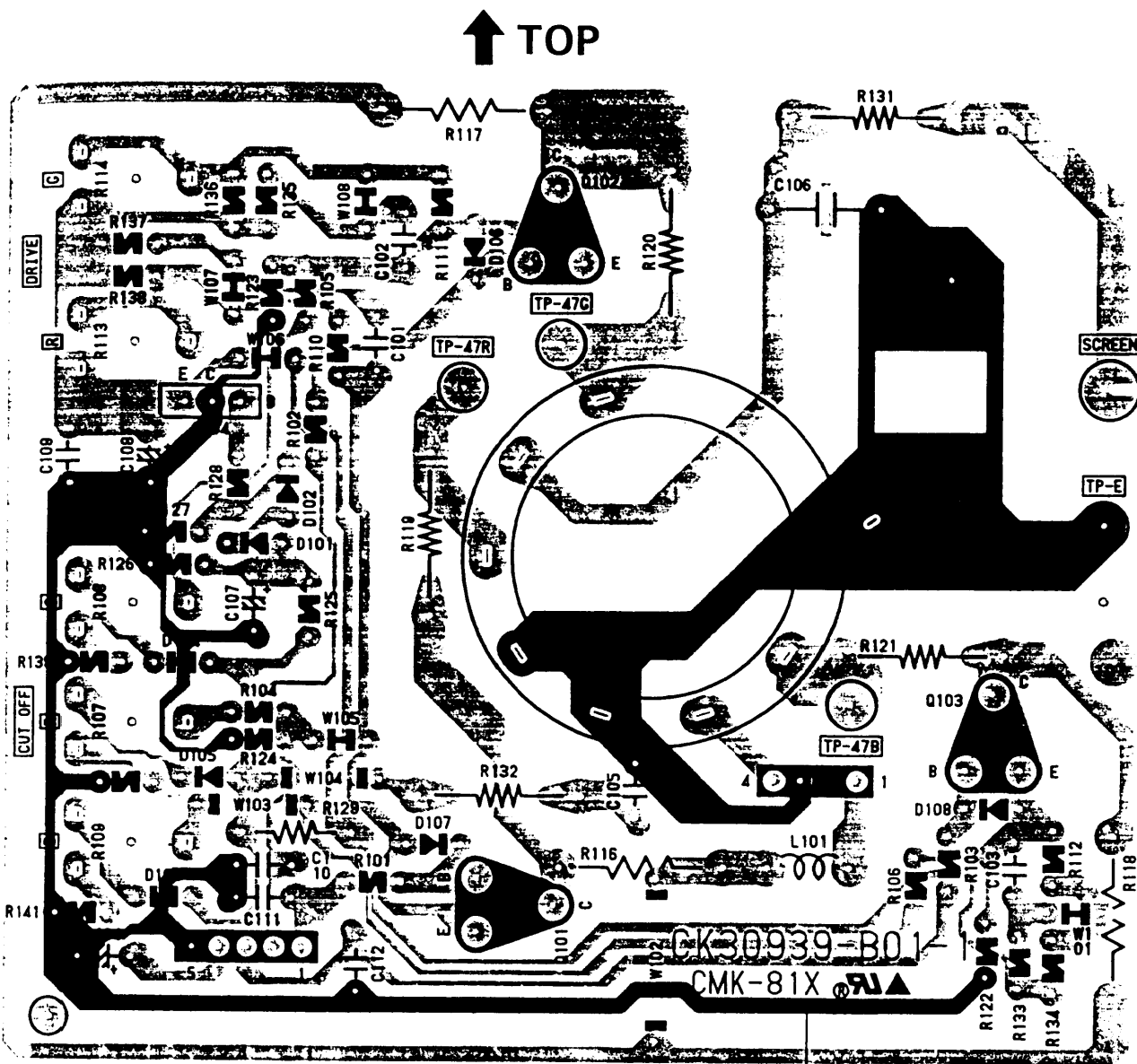
(SKY-1002A)



↑
FRONT

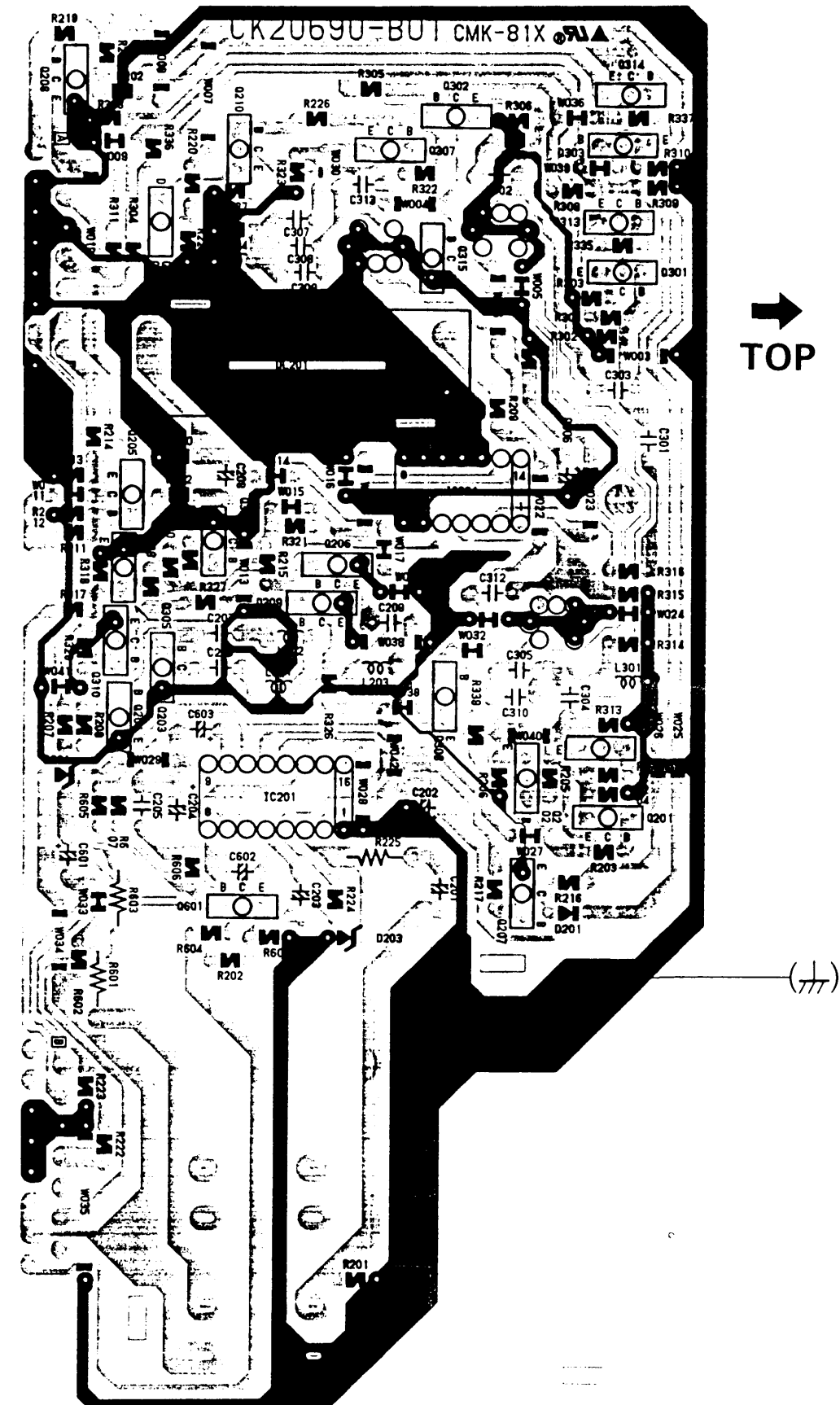
CRT SOCKET PWB PATTERN

(SKY-3002A)



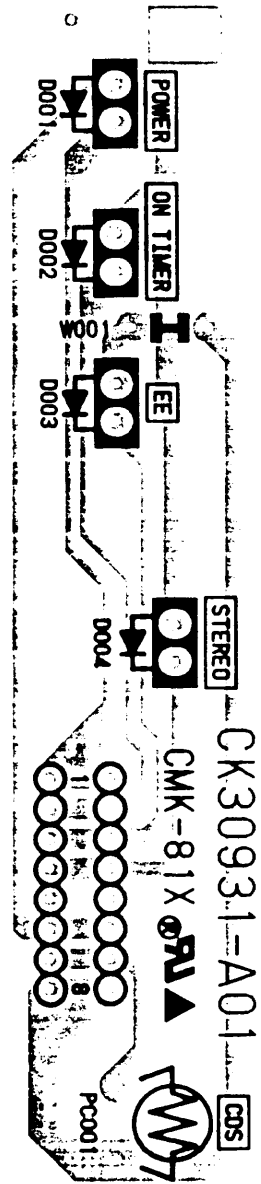
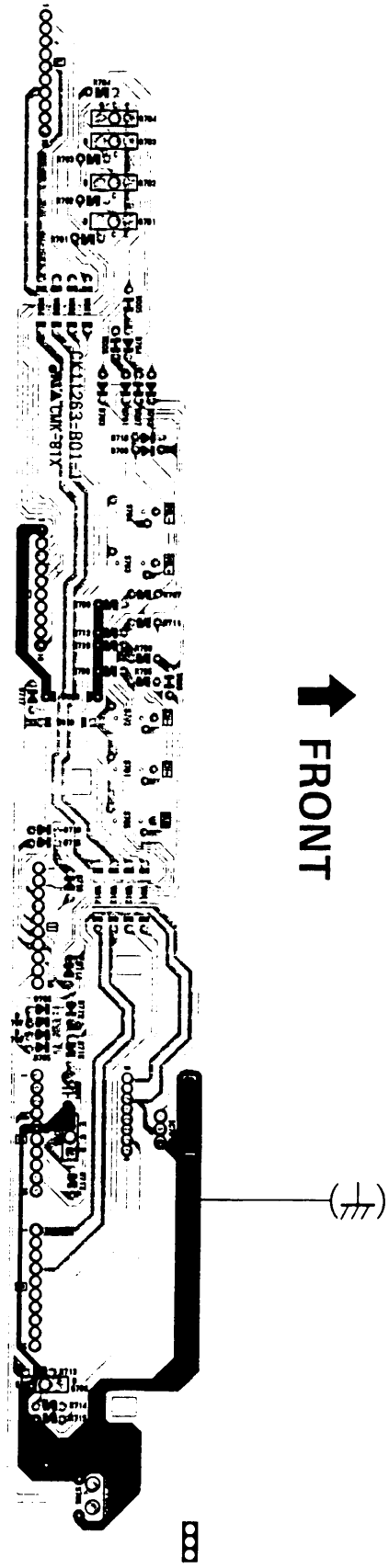
AV TERMINAL PWB PATTERN

(SKY-7002A)



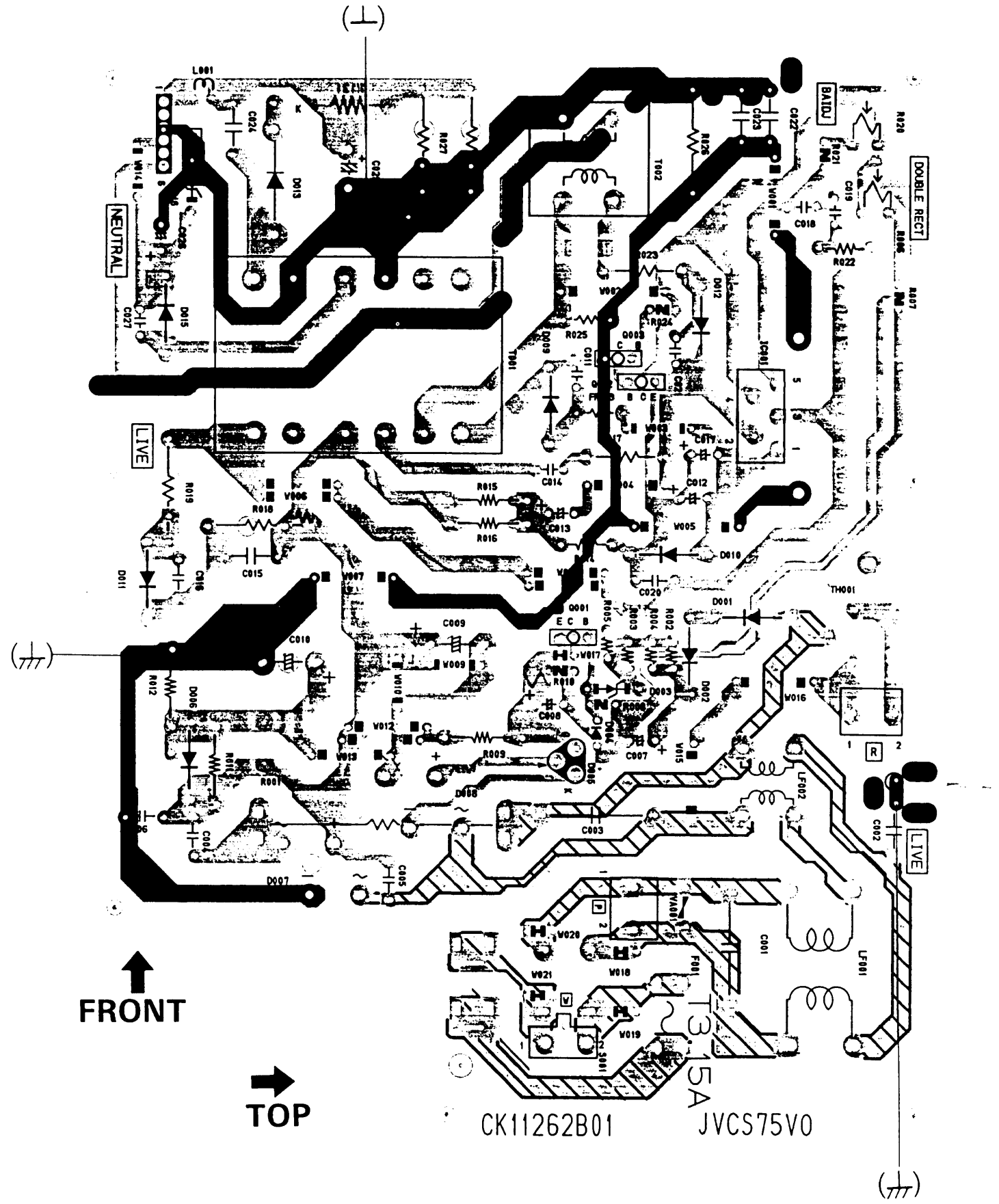
CONTROL & LED PWB PATTERN

(SKY-8002A) (SKY-4002A)



POWER PWB PATTERN

(SKY-9002A)



IF PWB PATTERN

(SKY-1F001A)

