

JVC

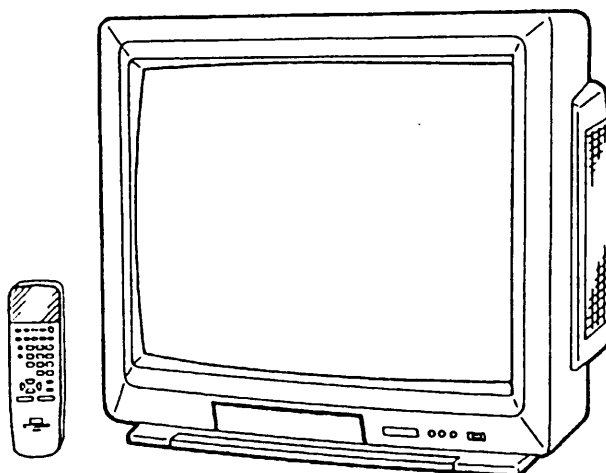
SERVICE MANUAL

55cm (21") COLOUR TV

AV-S21MS

BASIC CHASSIS

KY



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AV-S21MS 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 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 : Uninflamable 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 : [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

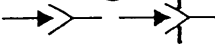
-  : B1(115V)
-  : B2(12V)
-  : 9V
-  : 5V

* 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

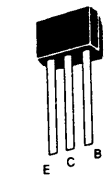
5. NOTE FOR REPAIRING SERVICE

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



2SC1740S(QR)



2SC1627A(OY)
2SA1015
2SC1815
2SC1815(B)
2SC1959(Y)
2SA933S(QR)



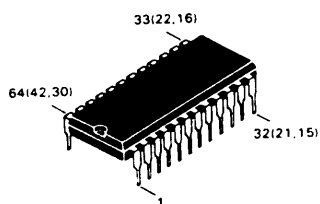
2SC1360-C1
2SA1013(RO)
2SC2655(Y)
2SA966



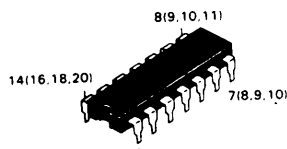
2SD1555-C1



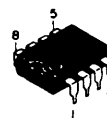
2SC2068



M37102M8-546SP
TA8659AN
VC2507(M65109 BSP)
M51365
TA8662N



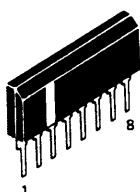
MC140688BCP
SM5807EP
TA7764
TDA1029
LM324N
M51496P
MC14555BCP
MC14066BCP
M51320P



M6M80041P
TDA1543A
NE4558N



AN78L05
PST529E
QP1U721Q
RC7812FA



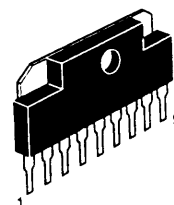
M5201L



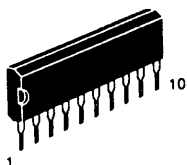
L7805CV



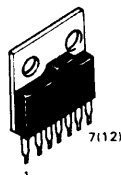
STR54041S



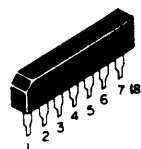
μPC1488H



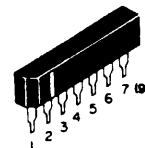
LA721Q



TA8200AH



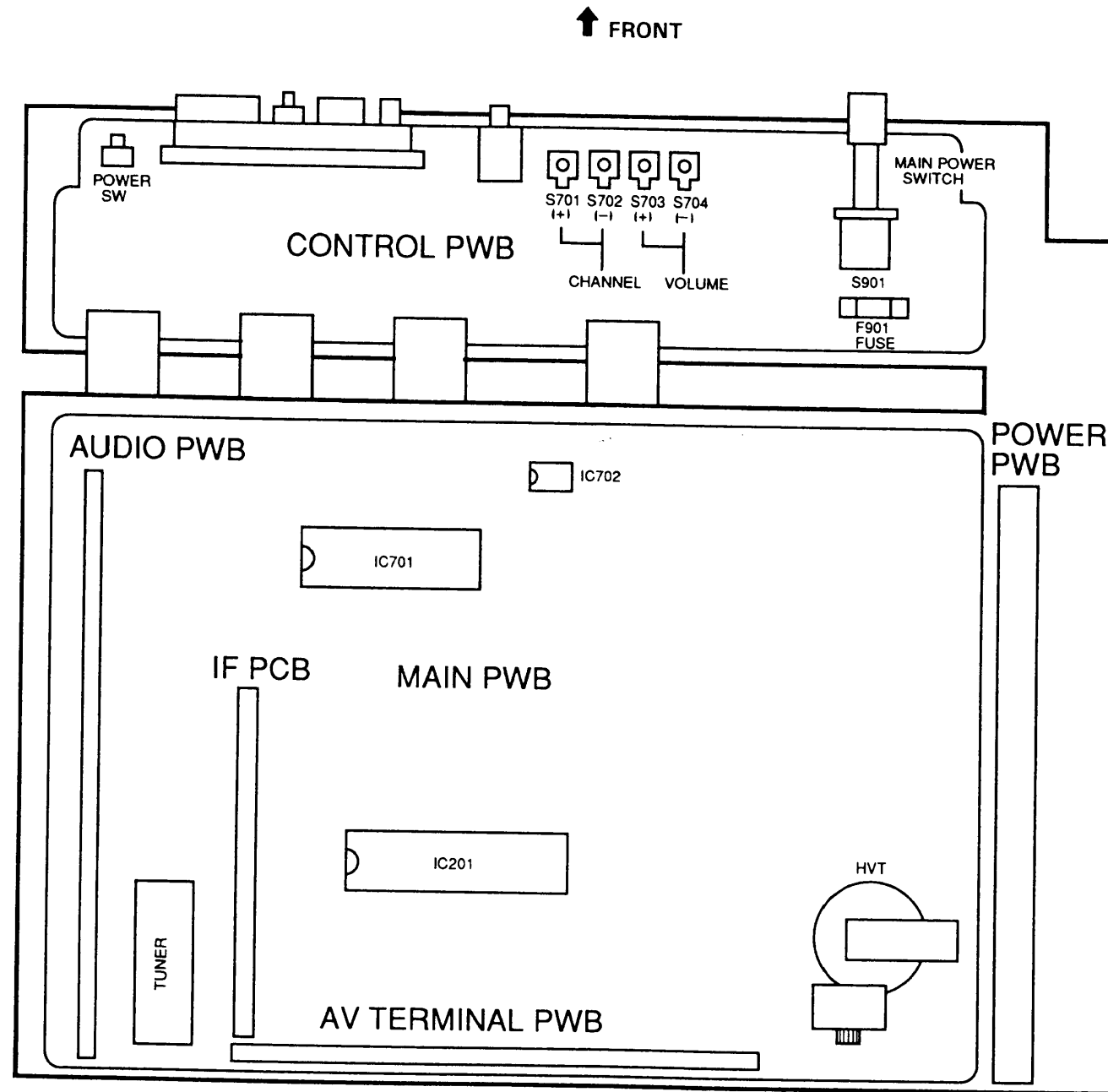
TA7347P



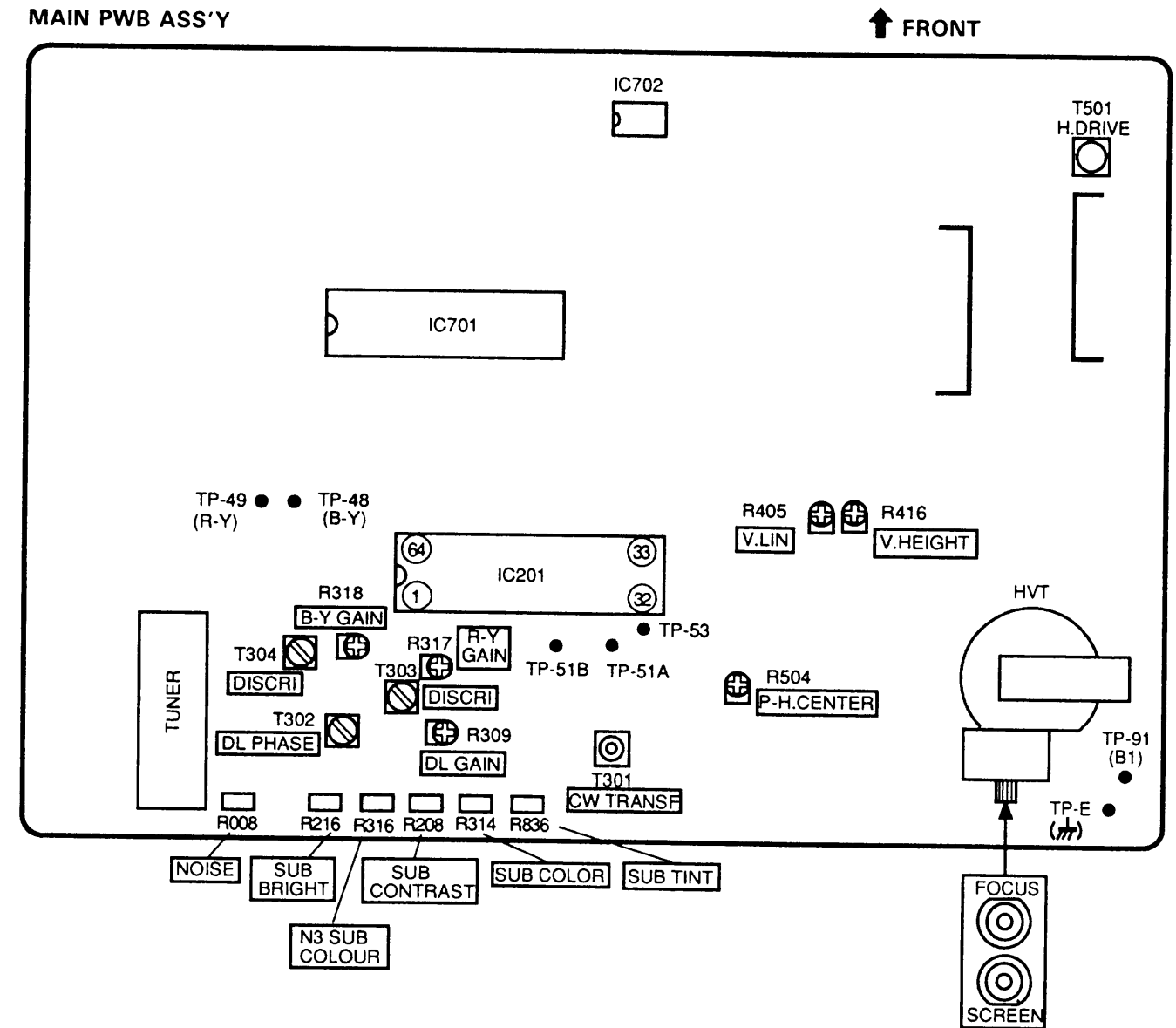
AN6551

MAIN PARTS LOCATION AND ALIGNMENTS LOCATION

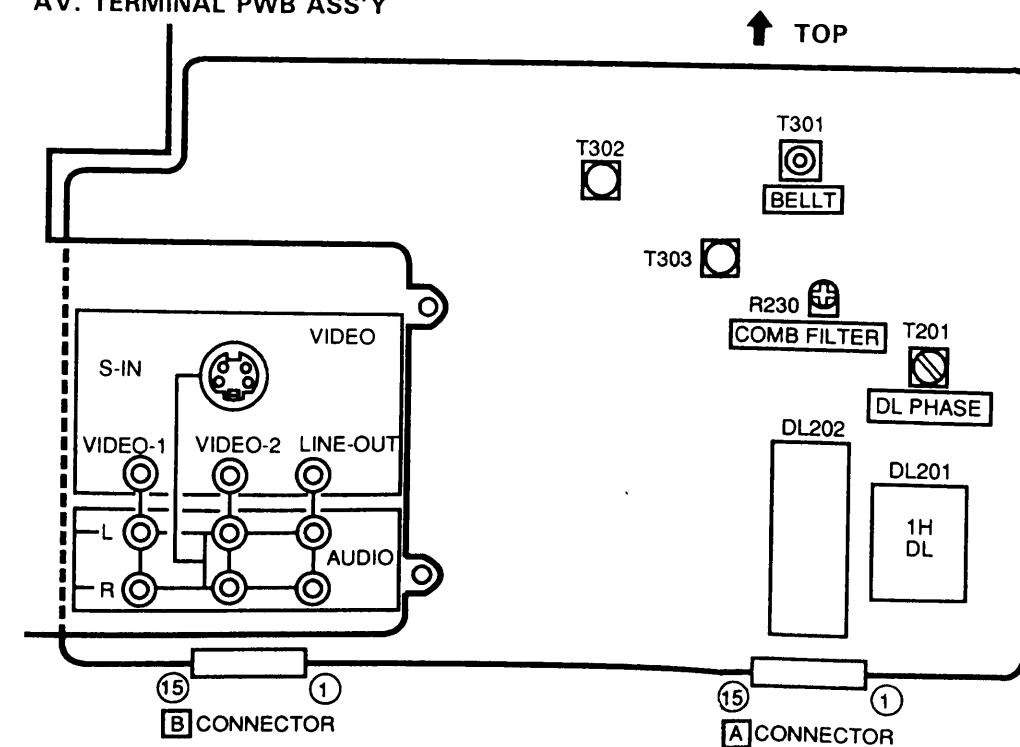
MAIN & CONTROL PWB ASS'Y



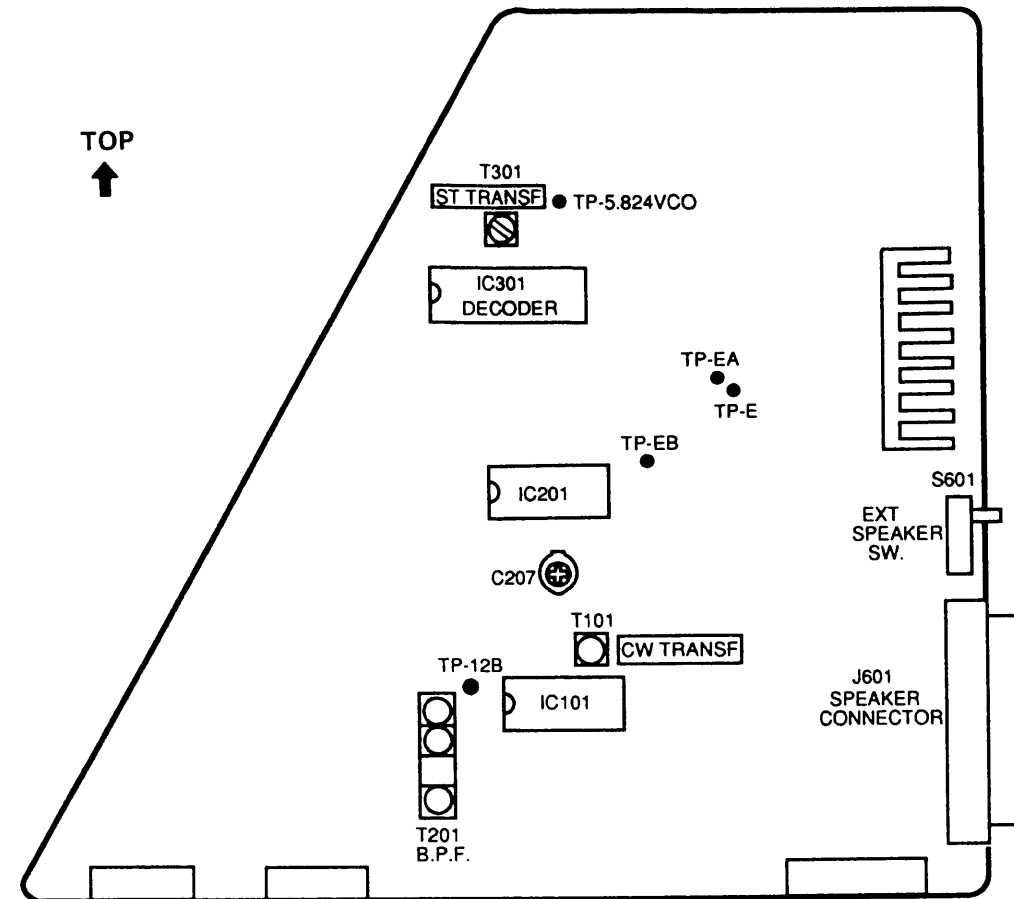
MAIN PWB ASS'Y



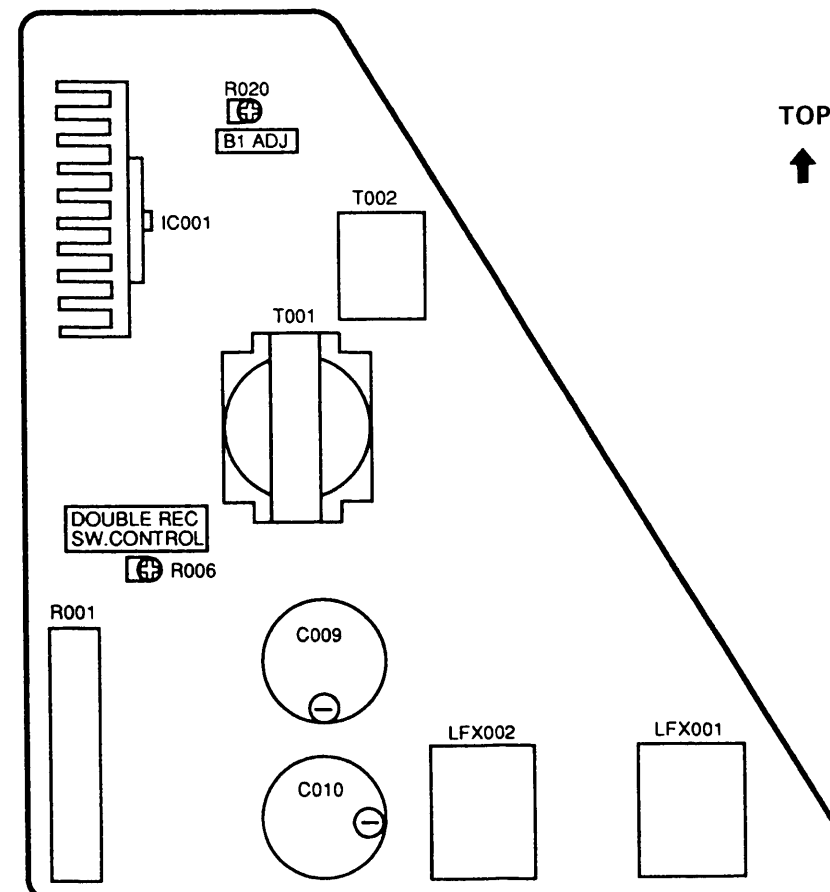
AV. TERMINAL PWB ASS'Y



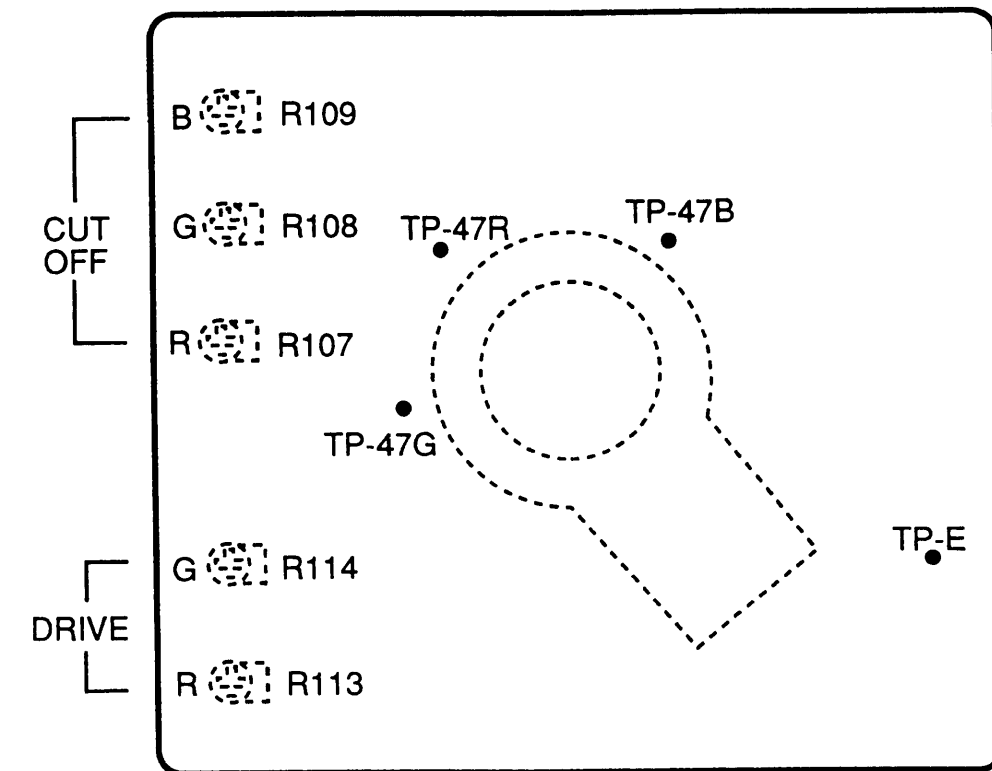
AUDIO PWB ASS'Y



POWER PWB ASS'Y



CRT SOCKET PWB ASS'Y (Back Side)

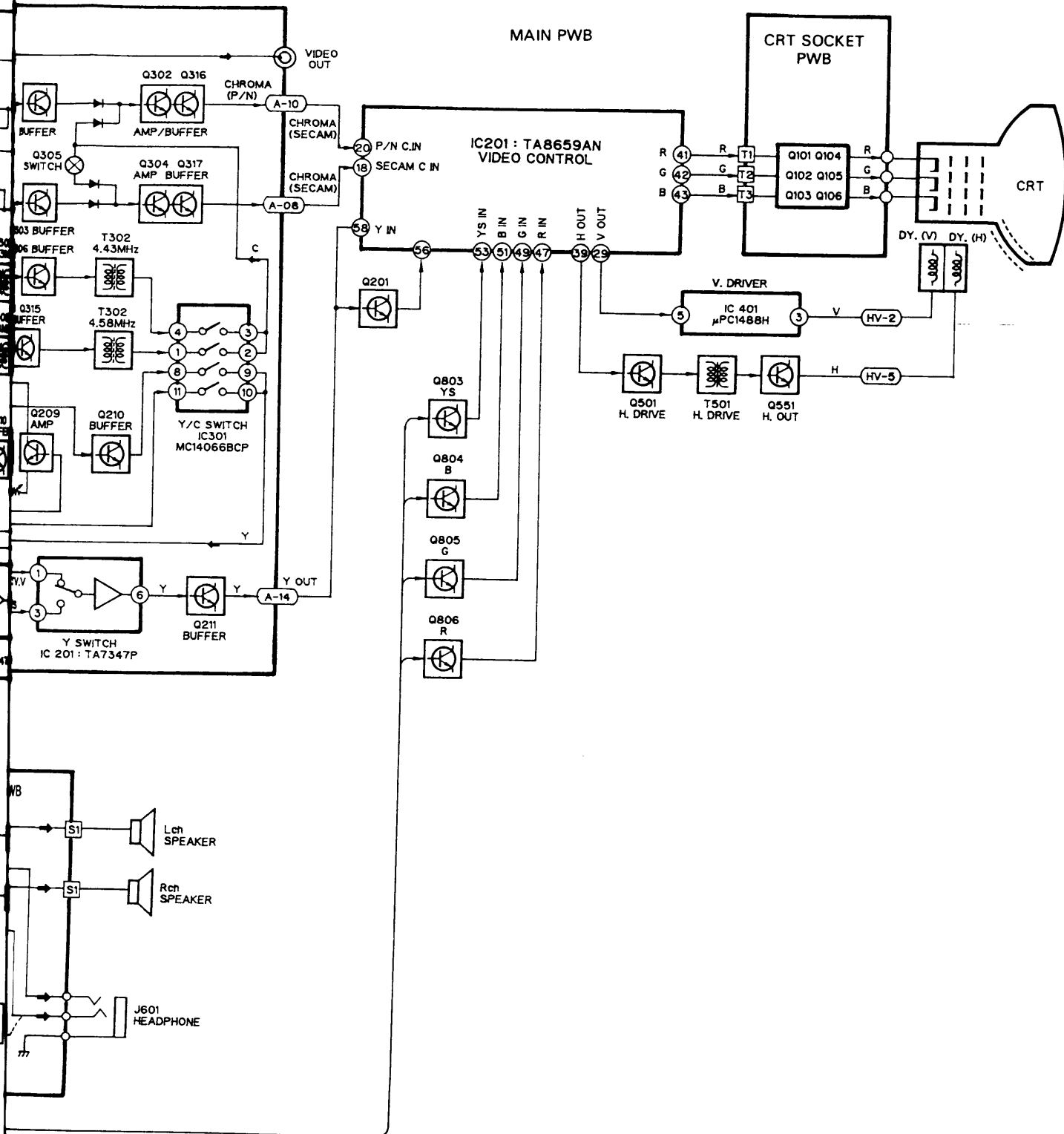


WIRING LIST

CONNECTOR	P.W.B. or PART	CONNECTOR	P.W.B. or PART
N	SKY-1001A	N	SKY-9001A
U	SKY-1001A	U	SKY-3001A
T	SKY-1001A	T	SKY-3001A
R	SKY-7001A		DEG. COIL
S1 S3	SKY-1001A	+ -	SPEAKER(R)
S1' S3'	SKY-1001A	- +	SPEAKER(L)
GND	SKY-1001A		CRT
HV	SKY-1001A		DEF. YOKE
P	SKY-9001A		SKY-8001A

VHF/UHF/CATV
E. TUNER

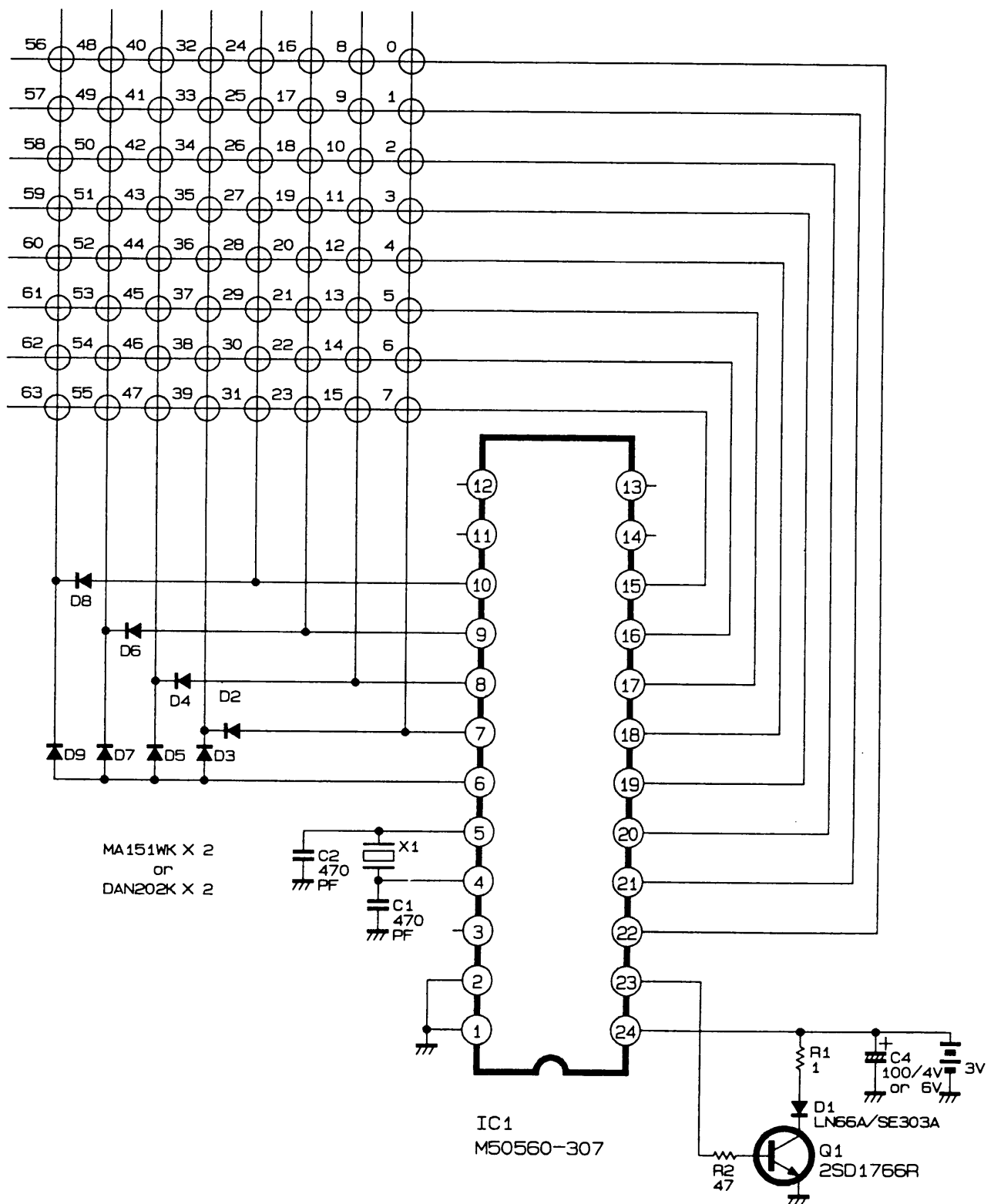




CIRCUIT DIAGRAMS AND PWB PATTERNS

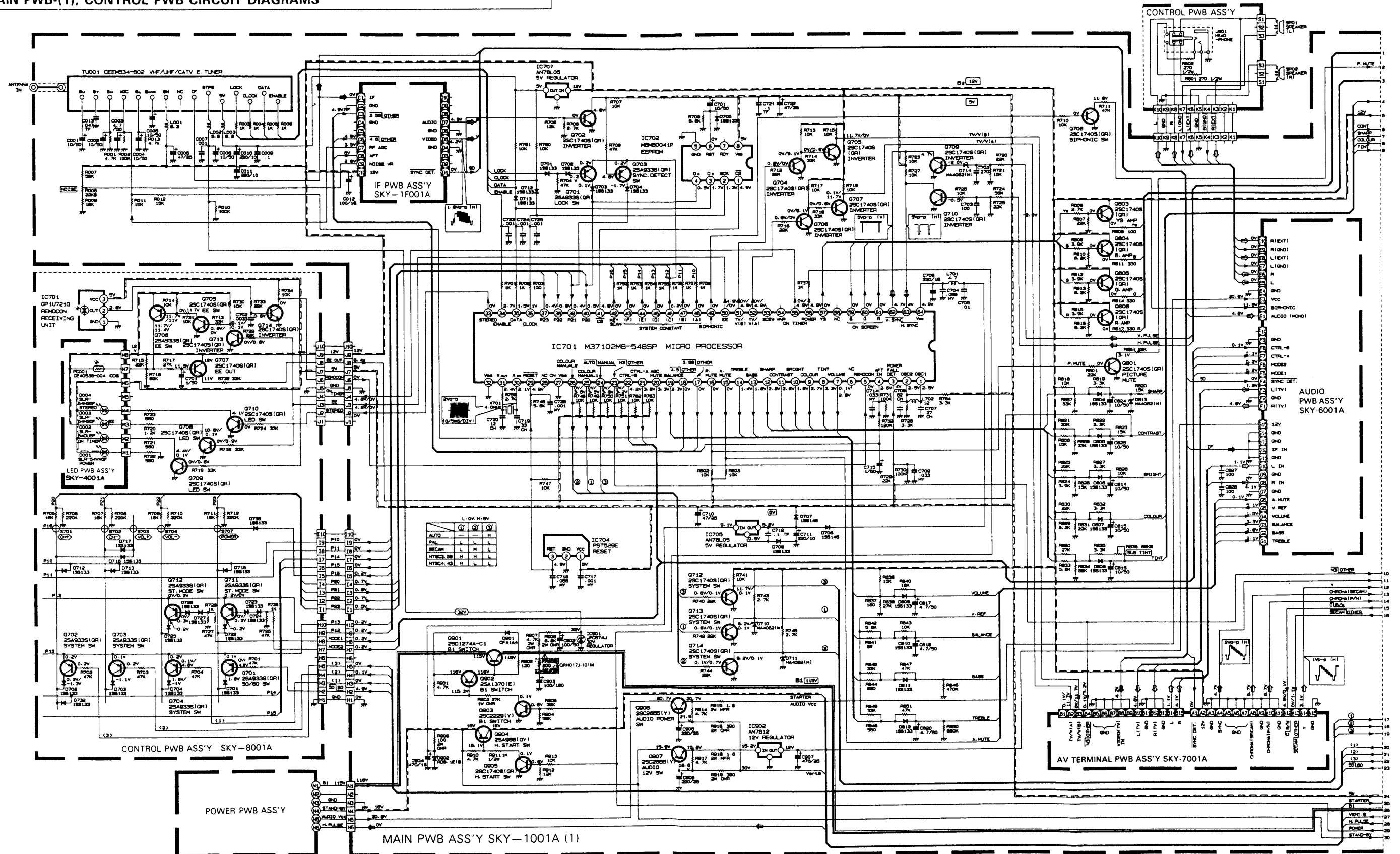
REMOTE CONTROL TRANSMITTER

(RM-C680)

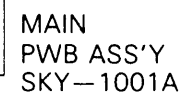


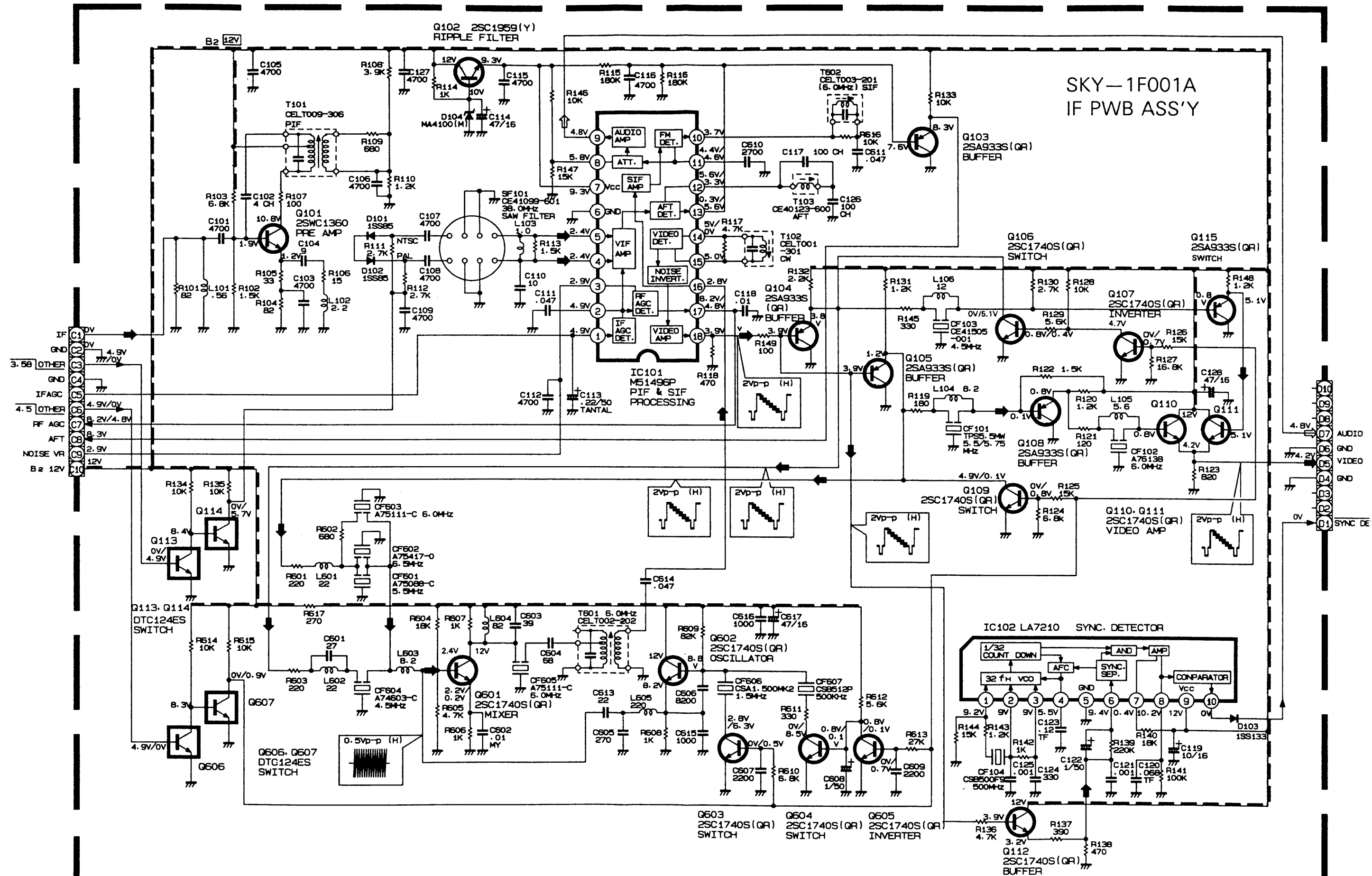
MAIN PWB-(1), CONTROL PWB CIRCUIT DIAGRAMS

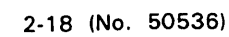
REFER TO THE FOLLOWING PWB PATTERN: MAIN PWB 2-23/2-24 page, CONTROL PWB 2-25/2-26 page



REFER TO THE FOLLOWING PWB PATTERN : MAIN PWB 2-23/2-24 page, CRT SOCKET PWB 2-26 page.

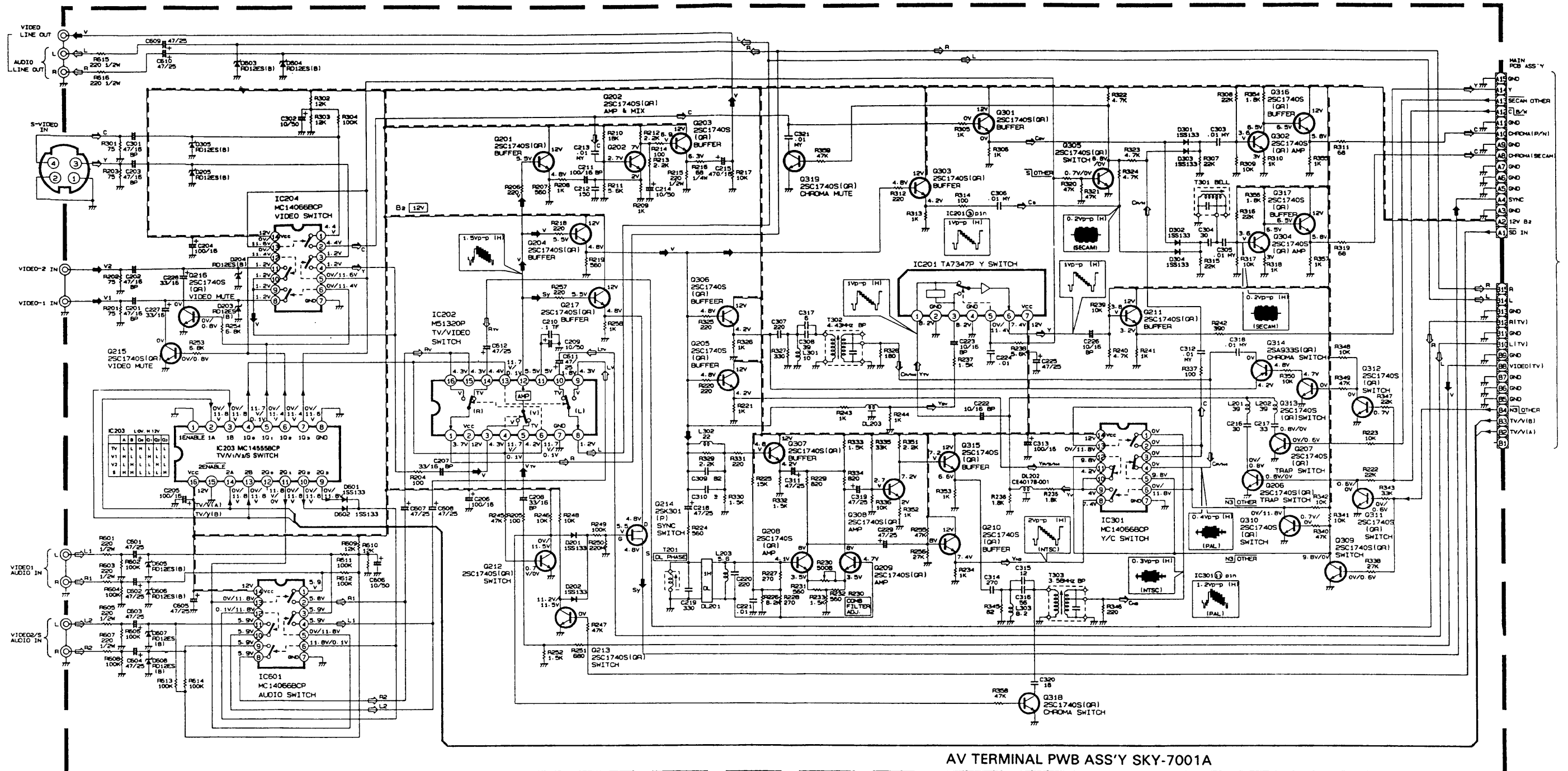






REFER TO THE FOLLOWING PWB PATTERN: AV TERMINAL PWB 2-25 page

AV TERMINAL PWB CIRCUIT DIAGRAMS

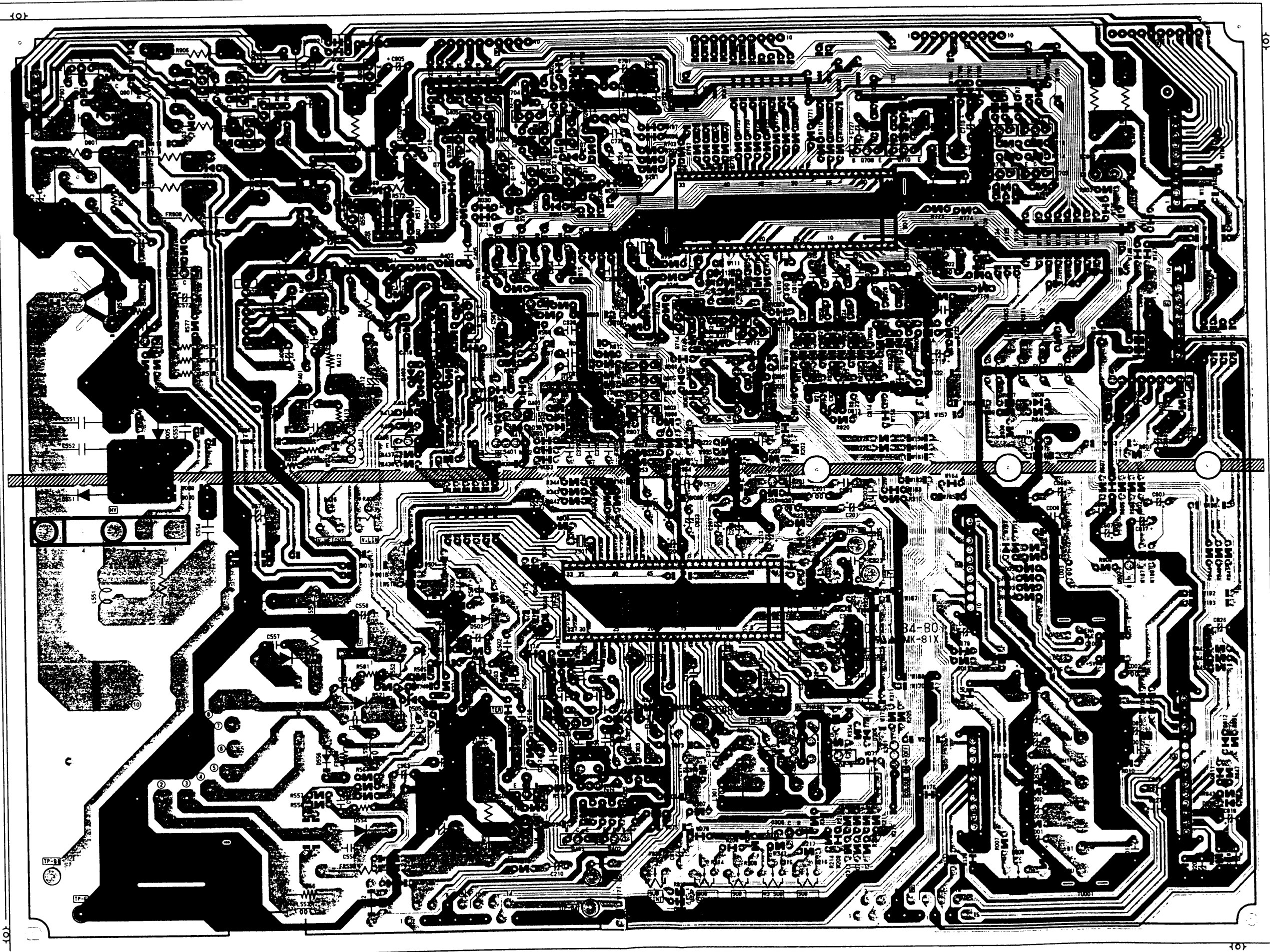


REFER TO THE FOLLOWING PWB PATTERN: POWER PWB 2-29 page



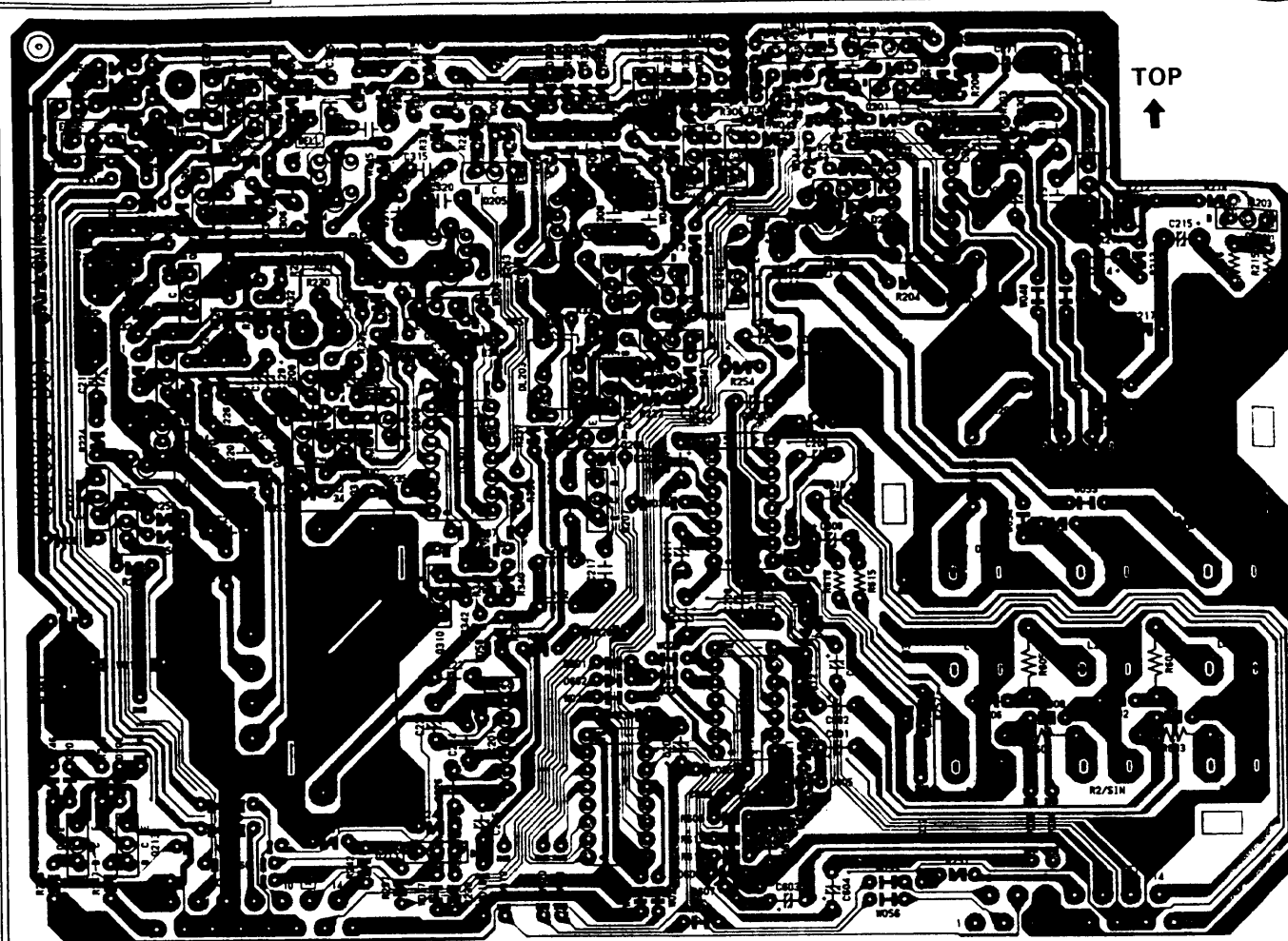
MAIN PWB PATTERN

(SKY-1001A)

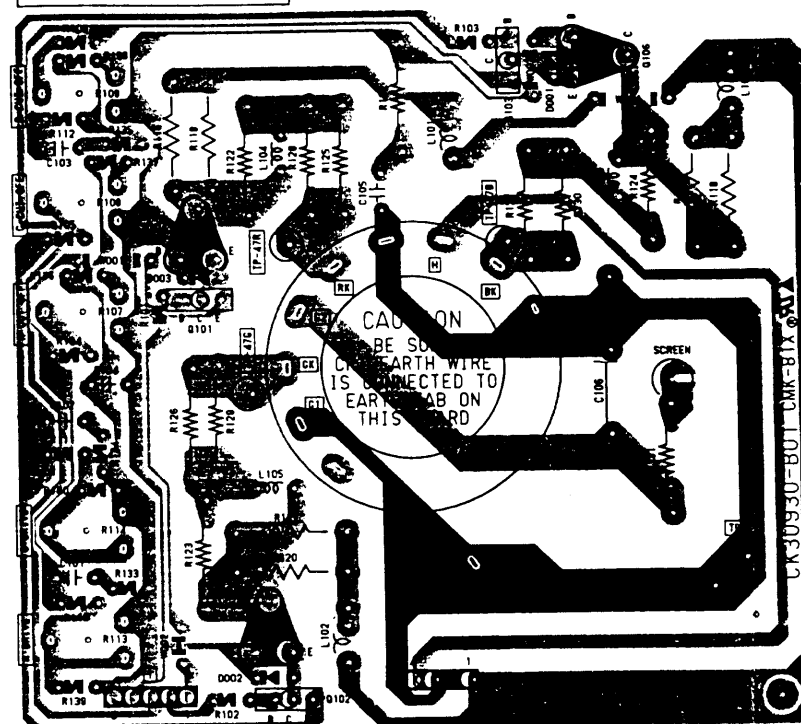


AV TERMINAL PWB, CONTROL PWB, LED PWB, CRT SOCKET PWB PATTERN
(SKY-7001A, SKY-8001A, SKY-4001A SKY-3001A)

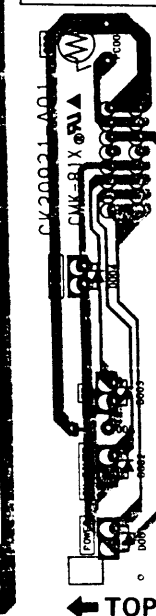
AV TERMINAL PWB



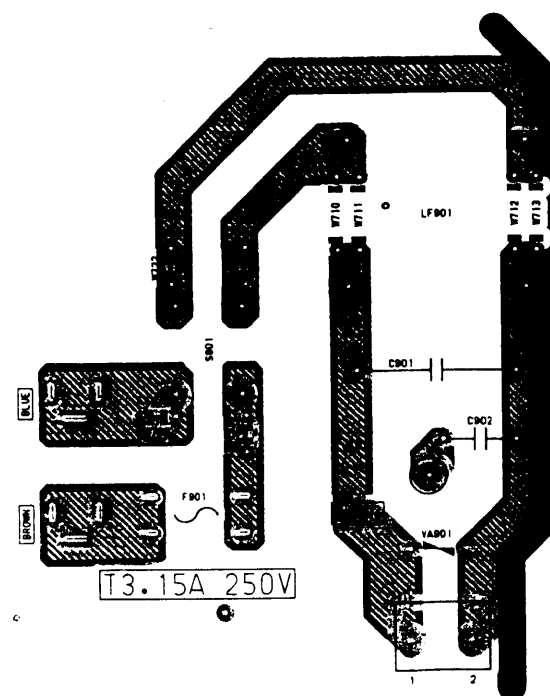
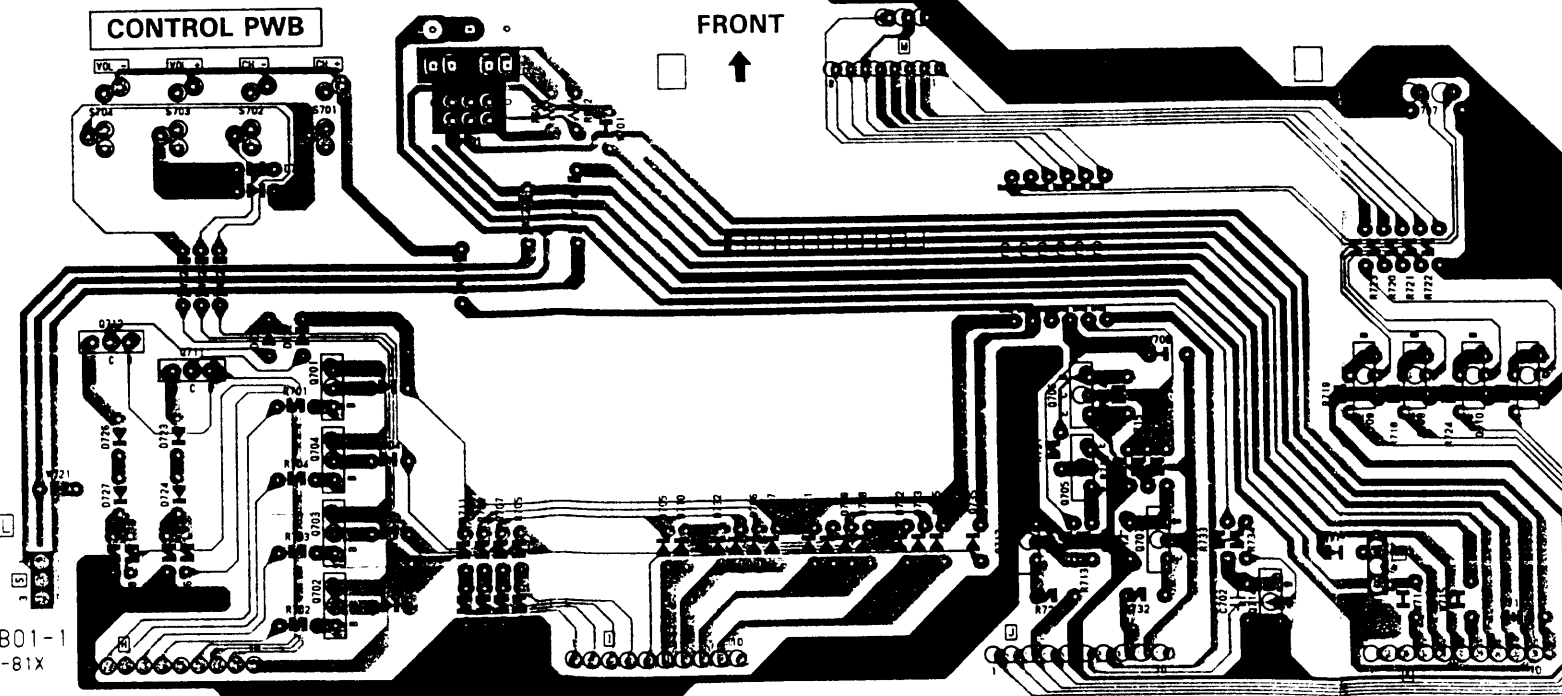
CRT SOCKET PWB



LED PWB



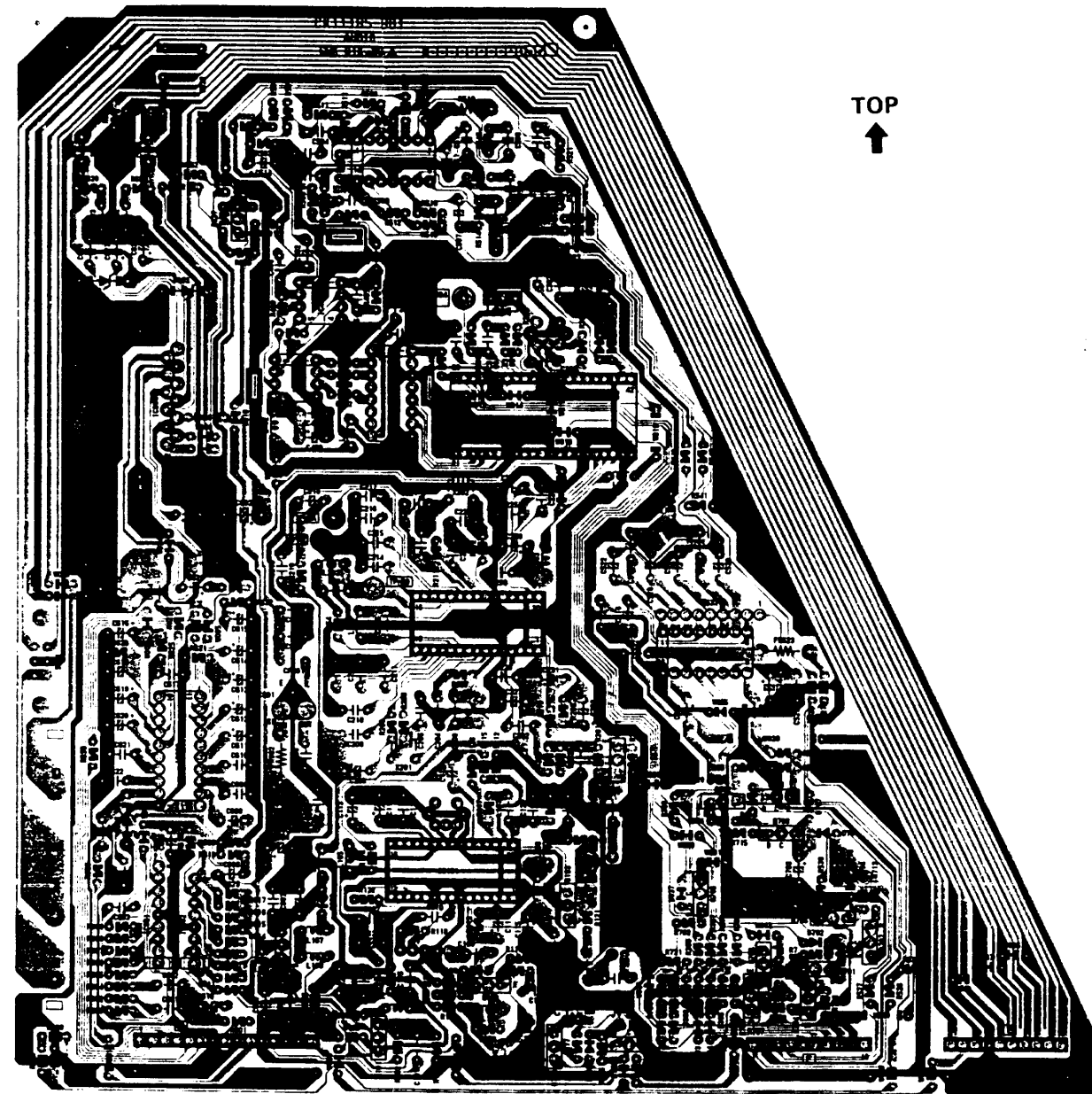
CONTROL PWB



CK11186-B01-1
CMK-81X

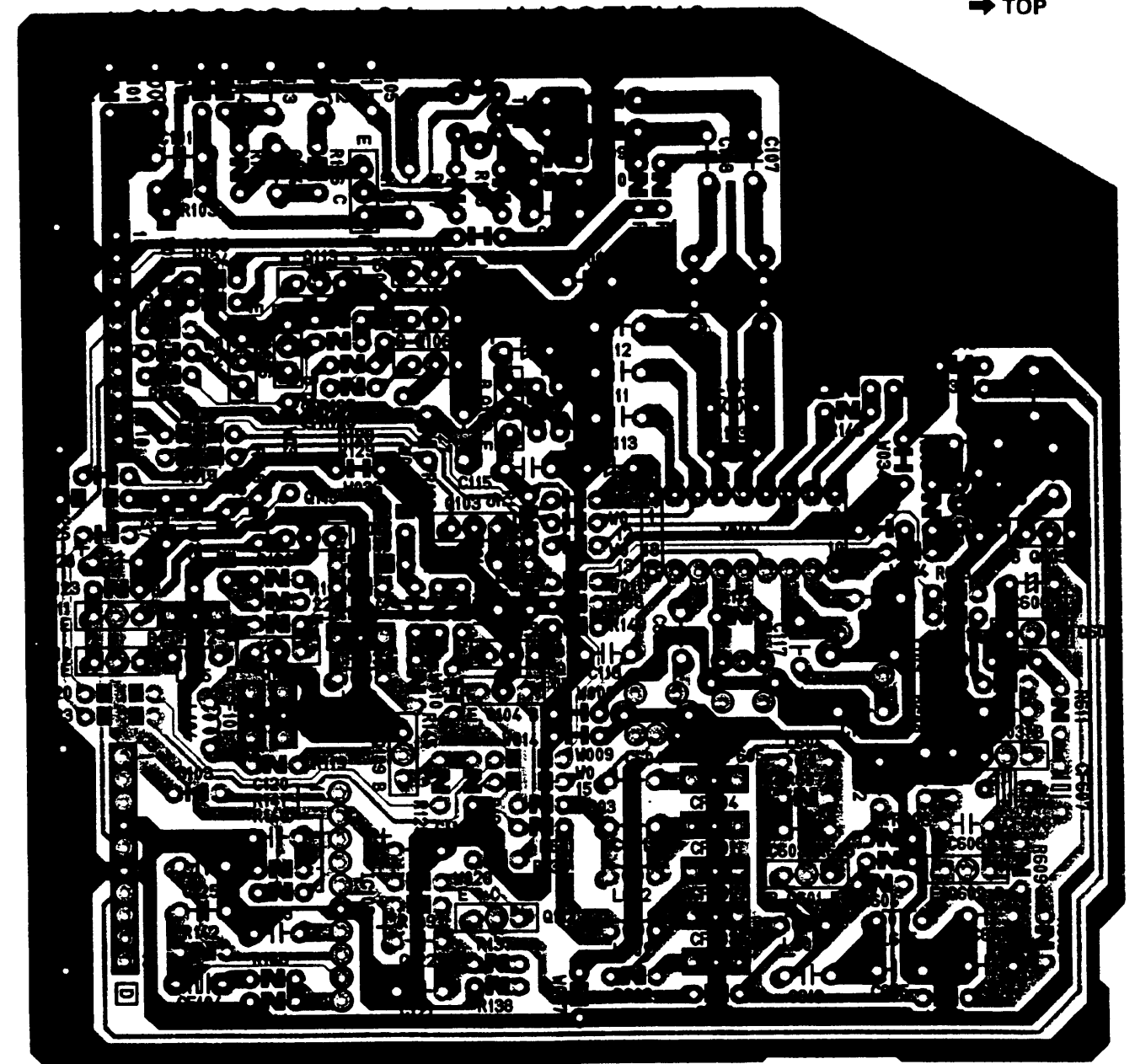
AUDIO PWB PATTERN

(SKY-6001A)



IF PWB PATTERN

(SKY-1F001A)



(SKY-9001A)

