

# JVC

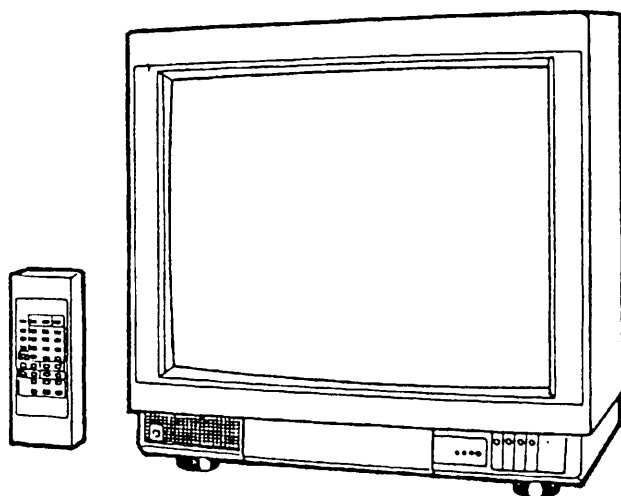
## SERVICE MANUAL

### 55cm COLOUR TV

## C-S2180M

BASIC CHASSIS

BX II



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# JVC C-S2180M SCHEMATIC DIAGRAM



## ■ NOTICE

- Voltage values and waveforms are measured by respectively receiving and displaying on the screen the colour bars signals of the PAL, SECAM, and NTSC(3.58MHz/4.43MHz).  
[Voltage value display method]  
The voltage values indicated within the circuits denote those obtained when PAL colour bar signals are received and displayed on the screen. However, as for those points where the voltage values are caused to vary by input signals (SECAM, NTSC); discrimination is effected by indicating as per an example [Example : (4.2 V)].
- The voltage values when receiving and displaying the PAL signal on the screen are shown in the LIST on page ② ( → Difference voltage list).  
Multimeter used.  
DC 20kΩ/V  
Given figures are all DC voltages.  
Sweep speed of oscilloscope  
H → 20μS/div. V → 5mS/div.  
Others — sweep speed specified
- Since the schematic diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

## ■ SAFETY

FR (—) denotes a fusible resistor which operates as a fuse. When replacing fusible resistors and parts indicated with black shading () in the circuit diagrams, be sure to ensure safety by using designated parts. As to other parts too, use designated parts to maintain safety and performance.

### NOTE FOR 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. Don't 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 above note will not be kept, a fuse or any parts will be broken.

## ■ INDICATION OF PARTS SYMBOL

Inside board (Example) SBX-1258A: R1209 → R209  
Outside board (Example) R0001 → R01

## ■ SCHEMATIC DIAGRAM INDICATION

### Resistor

- Resistance value  
Without unit : [Ω] K : [kΩ] M : [MΩ]
- Rated allowable power  
Without indication : 1/6W
- Others Indicated
- Type  
Without indication : Carbon resistor  
OMR : Oxide metal film resistor  
UNFR : Unflammable resistor  
MFR : Metal film resistor  
MPR : Metal plate resistor  
FR : Fusible resistor
- Composition resistor 1/2 [W] is indicated as 1/2S or Comp.




### Capacitor

- Capacitance  
Above 1 [pF] Below 1 [μF]
- Withstand voltage  
Without indication : DC 50 [V]  
Others : DC withstand voltage [V]  
AC indicated : AC withstand voltage [V]
- Indications for electrolytic capacitors are as follows.  
(Example)  
47/50 → capacitance [μF] /withstand voltage [V]
- Type  
Without indication : Ceramic capacitor  
MY : Mylar capacitor  
MM : Metalized mylar capacitor  
PP : Polypropylene capacitor  
MPP : Metalized polypropylene capacitor  
MF : Metalized film capacitor  
BP : Bipolar electrolytic capacitor  
TAN. : Tantalum capacitor





### Coil

- Without unit : [μH]





### Connection method

-  : Connector
-  : Receptacle
-  : Wrapping or soldering

### Power Supply

-  : B<sub>1</sub>(115V)  : B<sub>2</sub>(12V)
-  : 9V  : 5V
- Each voltage reading specified

### Test point & GND. symbol.

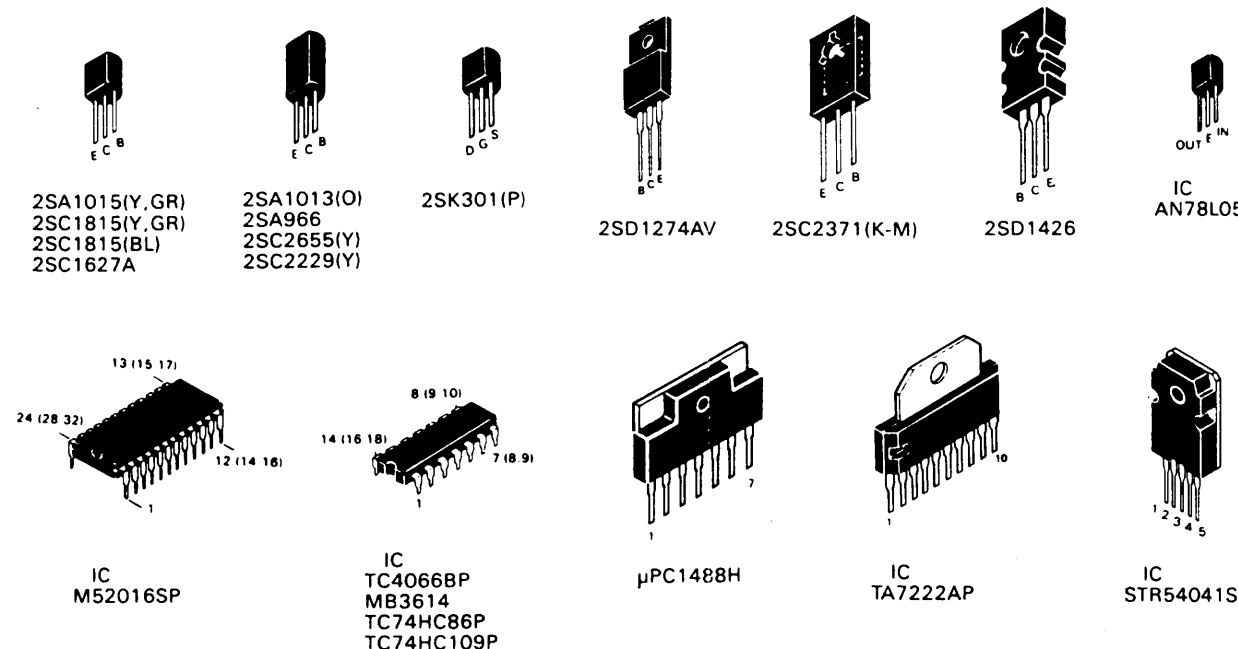
-  : Test point by miniature GT pin
-  : Only test point display
-  : Live (Primary) side ground
-  : Neutral (Secondary) side ground

## DIFFERENT VOLTAGE LIST

Symbol Pin No.	IC201						SBX-M002A			SBX-F501A	SBX-S004A		
System SW Position	17	23	29	30	31	32	40	42	44	13	8	10	
PAL	4.9V	5.3V	8.8V	3.5V	7.4V	3.5V	0V	11.7V	0.1V	0V	0.1V	3.9V	
SECAM	4.9V	0V	7.7V	3.5V	7.4V	3.5V	0V	0.1V	11.5V	0V	11.6V	0V	
NTSC (3.58MHz)	0.4V	5.3V	2.1V	1.9V	2V	1.9V	12V	0.1V	0.1V	12V	0.1V	4.1V	
NTSC (4.43MHz)	0.3V	0.4V	2.1V	1.9V	2V	1.9V	12V	0V	0V	0V	0.1V	3.8V	

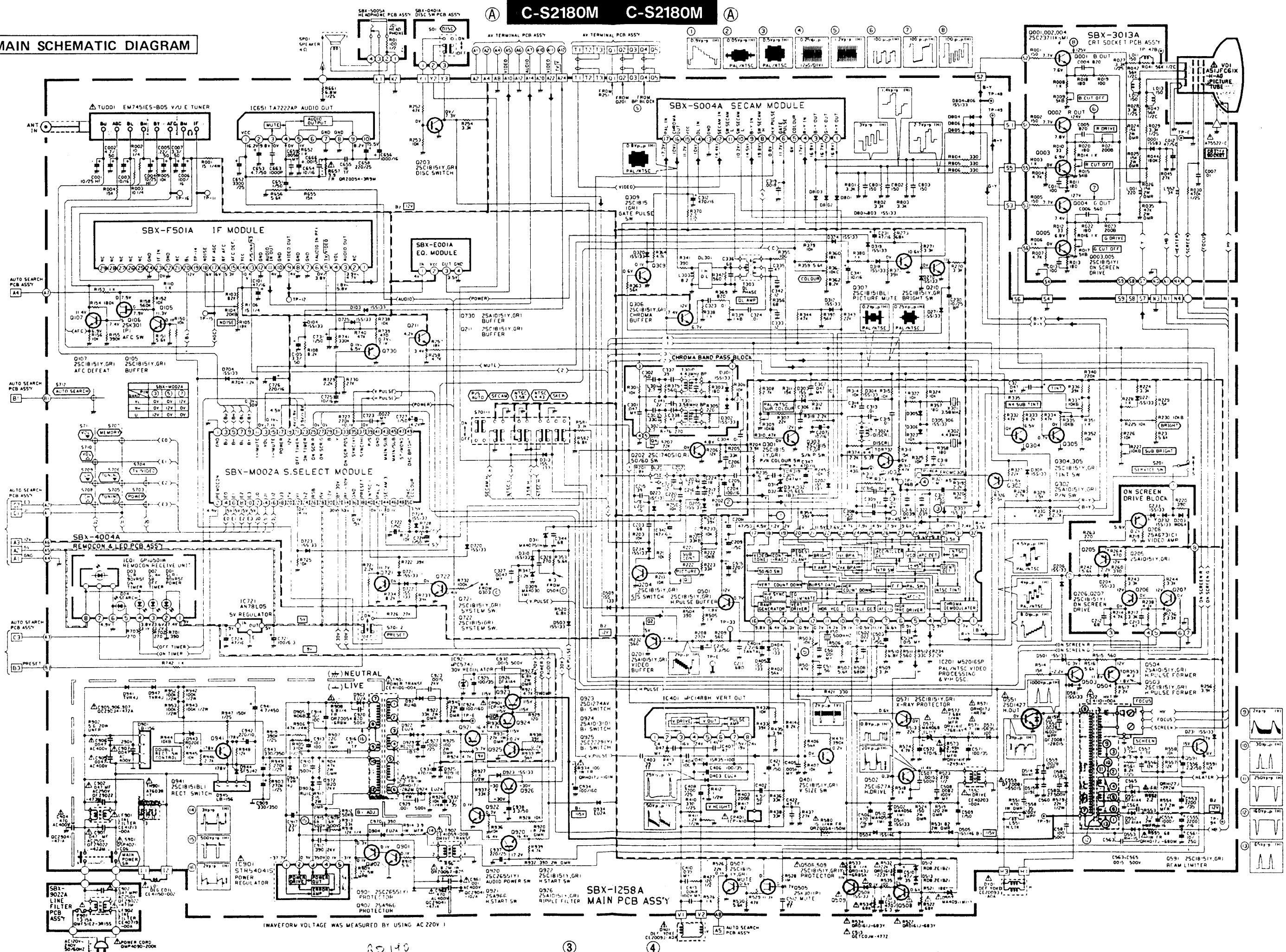
Symbol Electrode SW Position	Q202		Q301		Q302		Q303		Q304		Q305		Q306		Q401		Q721		Q722	
	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C	B	C
PAL	0V	4.8V	0V	12V	11.5V	12V	0V	5.3V	0V	6.5V	0.7V	0V	7.4V	6.7V	0V	6.2V	0V	11.7V	0.4V	0V
SECAM	0V	4.8V	0V	12V	11.5V	12V	0.7V	0V	0V	6.5V	0.7V	0V	0.7V	5.8V	0V	6.2V	0.7V	0.1V	-0.7V	1.2V
NTSC (3.58MHz)	0.7V	0V	0.7V	0V	12V	1.7V	0V	5.3V	0.7V	0V	0V	1.4V	2V	1.4V	0.7V	0V	0.7V	0.1V	-0.5V	1.2V
NTSC (4.43MHz)	0.7V	0V	0.7V	0V	12V	1.7V	0V	5.3V	0V	1.4V	0.7V	0V	2V	1.4V	0.7V	0V	0.7V	0.1V	-0.5V	1.2V

## Basing of Transistor & ICs



### MAIN SCHEMATIC DIAGRAM

**C-S2180M      C-S2180M**

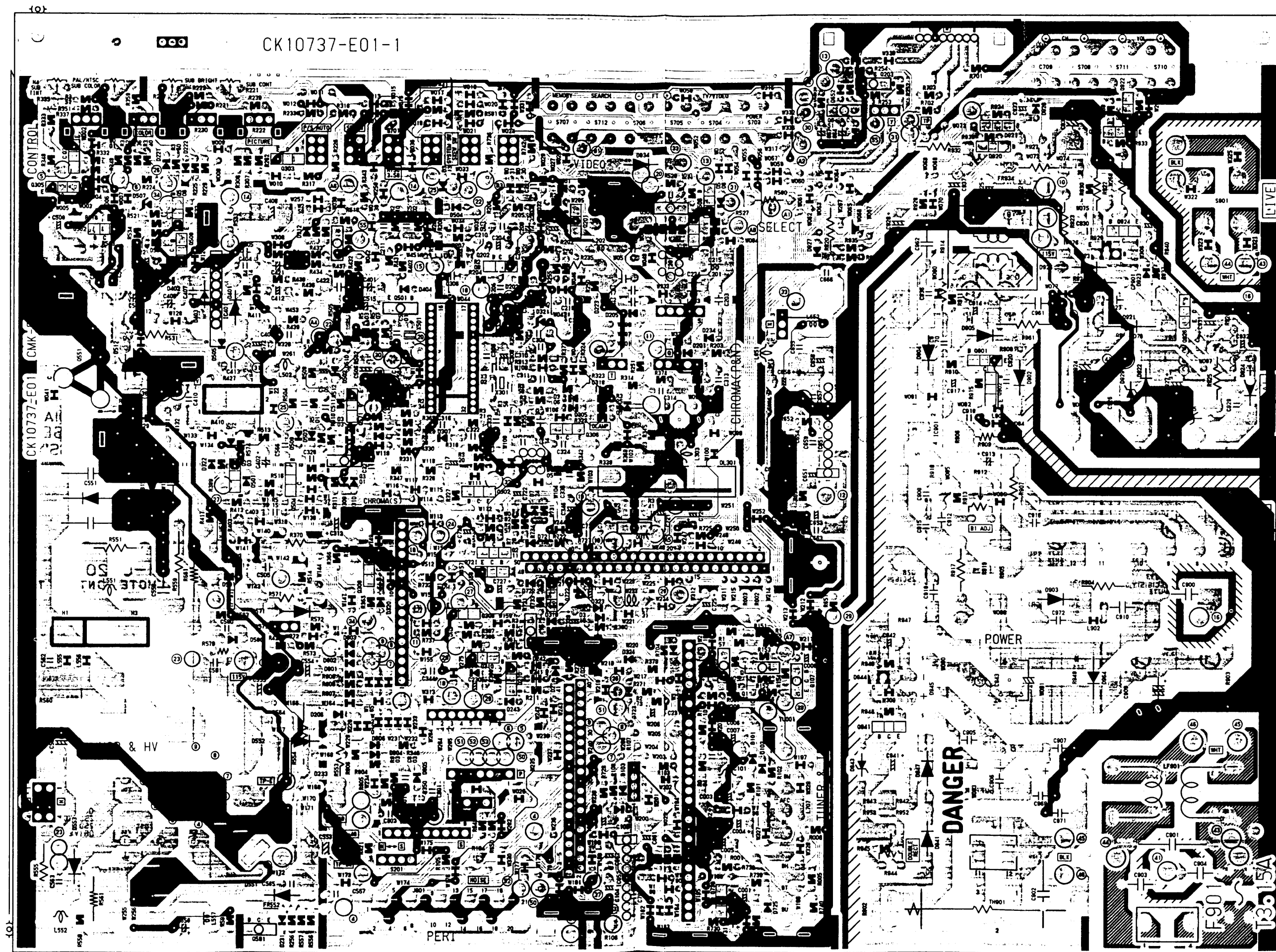


WAVEFORM VOLTAGE WAS MEASURED BY USING AC 220V

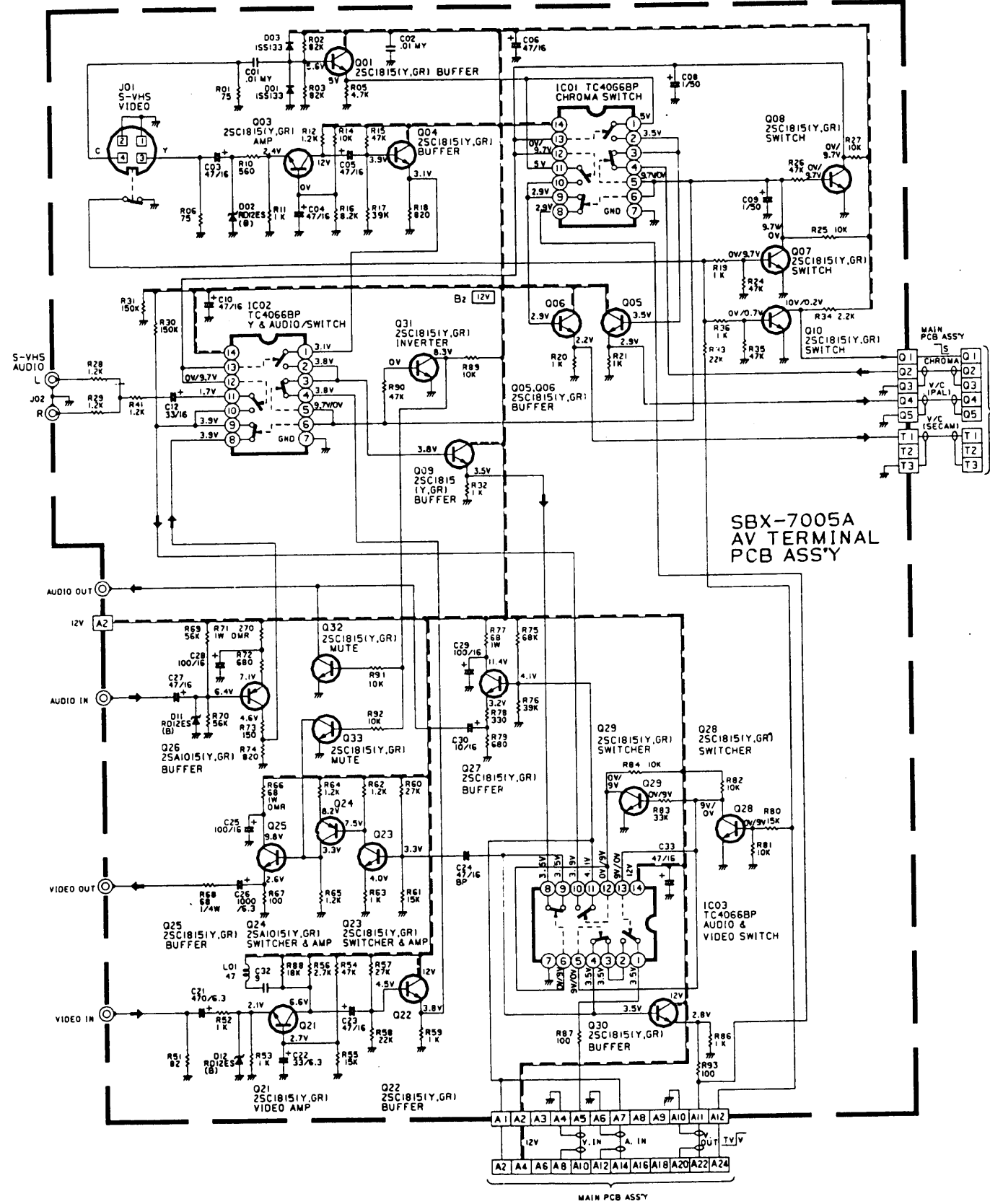
80140  
2902

③

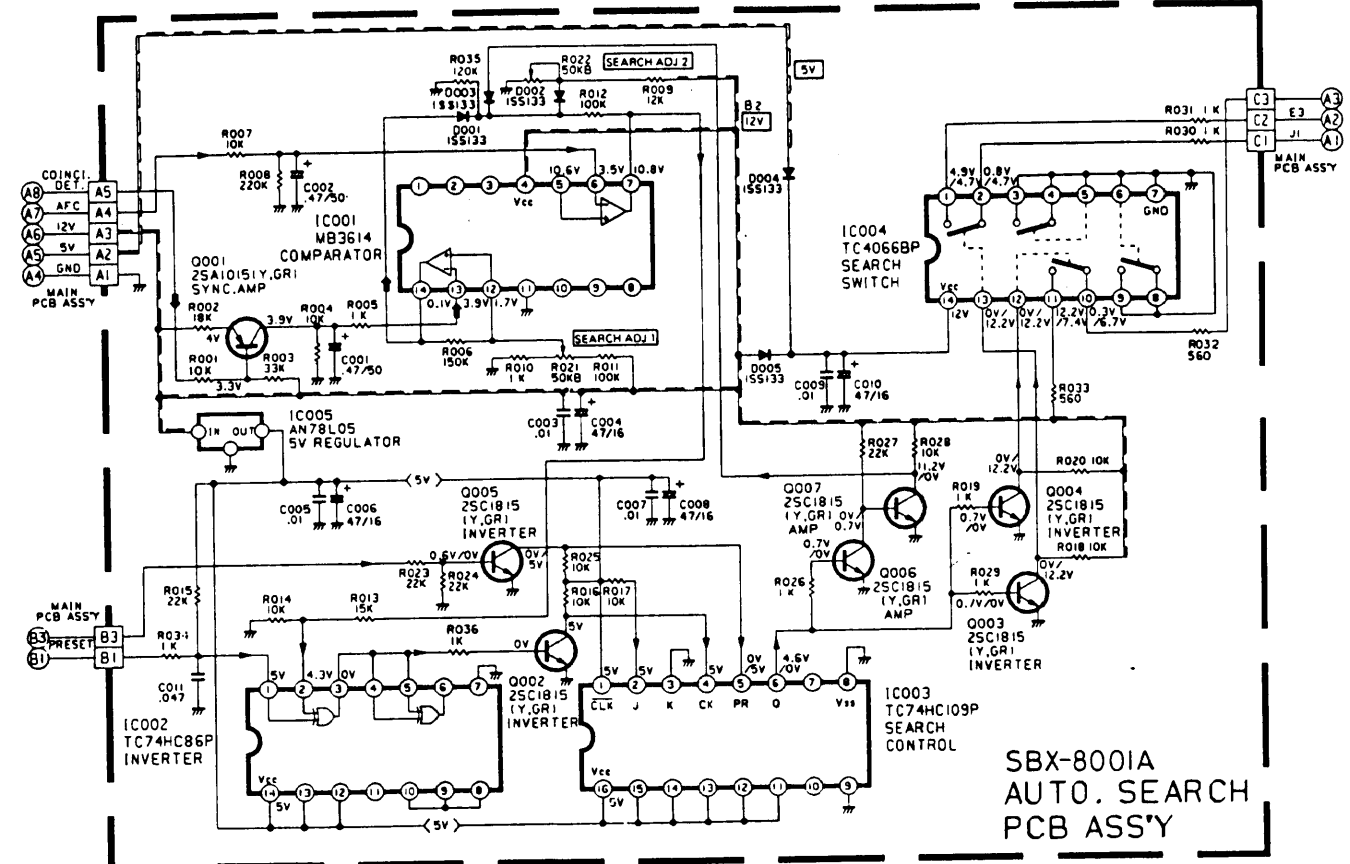
④



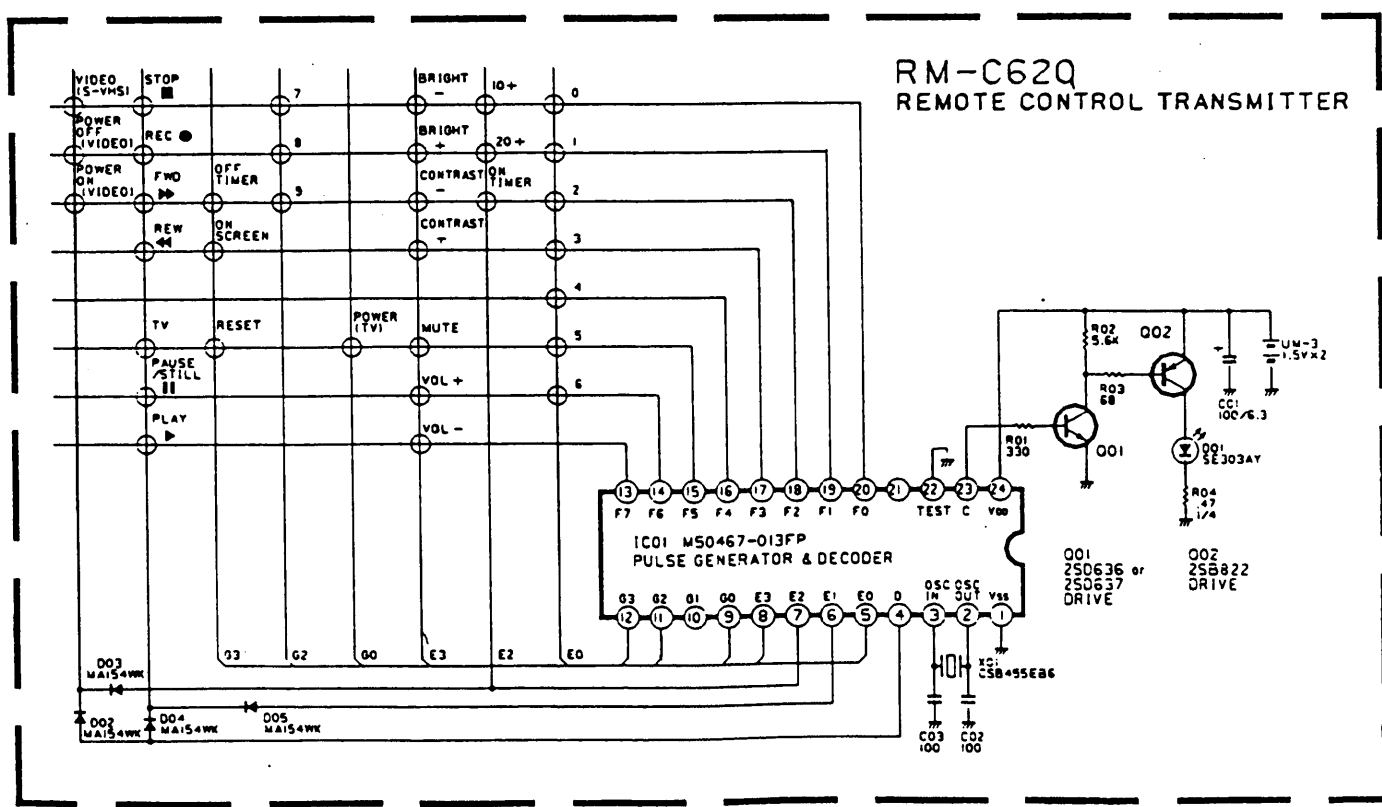
# AV TERMINAL SCHEMATIC DIAGRAM



# AUTO SEARCH SCHEMATIC DIAGRAM

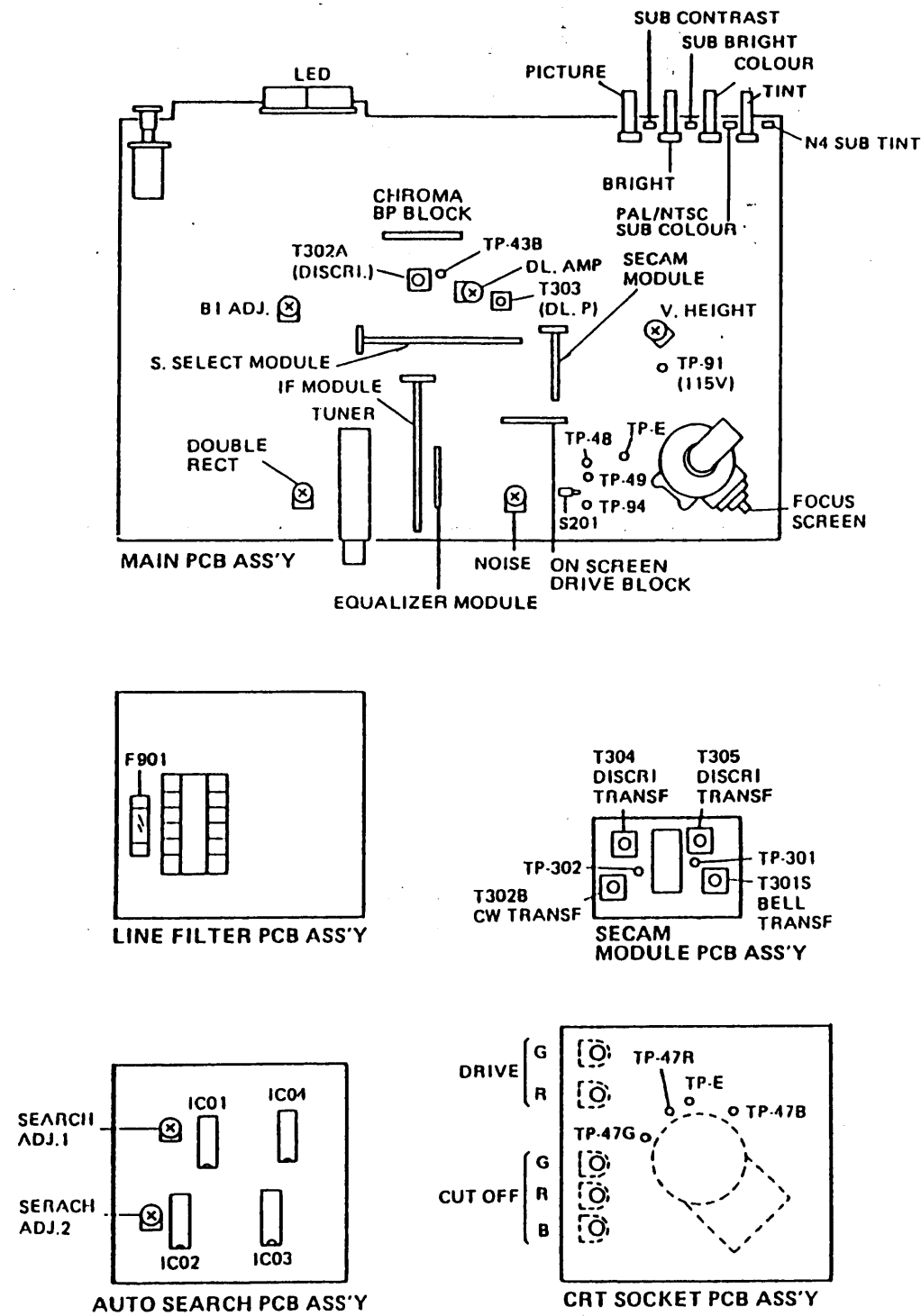


# REMOTE CONTROL TRANSMITTER SCHEMATIC DIAGRAM

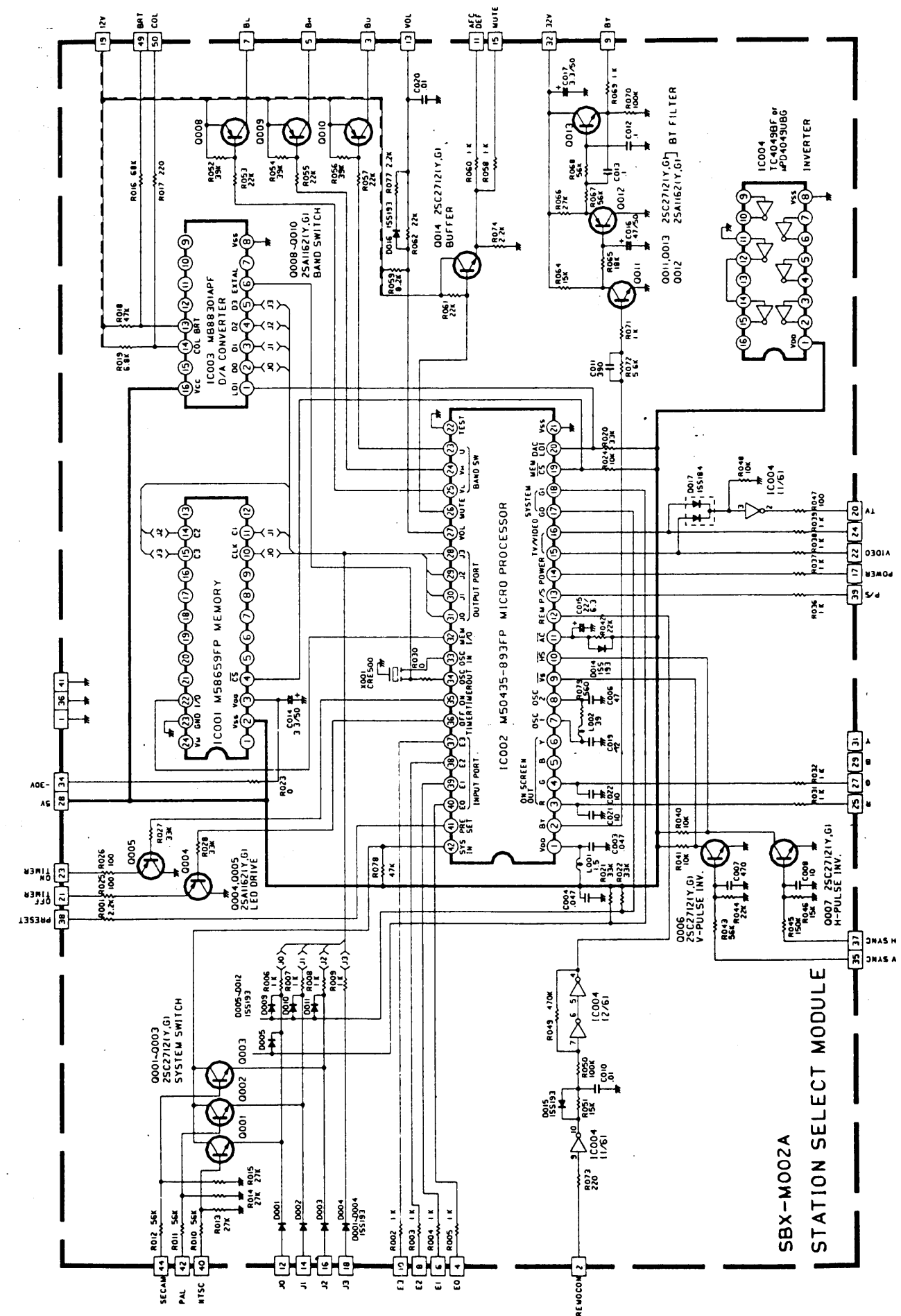




■ ADJUSTMENT LOCATION



### S. SELECT MODULE SCHEMATIC DIAGRAM



IF MODULE SCHEMATIC DIAGRAM

