SEGA

Service Manual

TV TUNER PACK (PAL) FOR GAME GEAR

MK-2101-05

MK-2101-22-18

MK-2101-20

GENERAL SPECIFICATIONS

- MK-2101-05 : I (PAL): England
- MK-2101-18 : B/G (PAL): Germany
- MK-2101-20 : B/G (PAL): General Europe

• Receiving Channels	VHF 1 – 12 ch UHF 21 – 69 ch
• Operating Temperature Range	+5°C – +40°C +41°F – +104°F
• Storage Temperature Range	–20°C – +60°C –4°F – +140°F
• Dimensions	107.2 (H) × 120 (W) × 39 (D) mm
• Weight	140 gr (w/o batteries)

Note: Specifications and design are subject to change without notice.

CONTENTS

DISASSEMBLY AND ASSEMBLY PROCEDURE

Disassembly

<Fig. 1>

- Set the unit with its channel plate downward.
- Remove the screw (503) and the Spring Lock Washer (505) at the back face of unit.
- Hold the side of the unit and pull out the Antenna (ANT201) in the direction indicated by the arrow A.
- Remove the four screws (501) and the two screws (502) at the back face of unit.
  The special screwdriver (for LH2) is necessary to remove these screws (502).

<Fig. 2>

- Remove the Bottom Case (200).

<Fig. 3>

- Remove the Band Select Knob (101) in the direction indicated by the arrow B.

<Fig. 4>

- Hold the hook of the Color Adjust Knob (102) by a Tweezers. And push the hook in the direction indicated by the arrow C. And remove the Color Adjust Knob (102) from the Top Case (100).

<Fig. 5>

- Remove the PCB1 and the PCB2 from the Top Case (100).
- Hold the FFC (Flexible Flat Cable) and gently pull out the FFC in the direction indicated by the arrow D, to remove it from the Connector (K401) on the PCB2.

<Fig. 6>

- Remove the screw (504) at the back face of the PCB2 and pull out the Channel Indicator Ass'y (400) in the direction indicated by the arrow E.

Assembly

- Perform assembly by reversing the procedure outlined for disassembly.
- Caution
  Don't forget to install the Band Select Knob (101) correctly in relation to the Channel Indicator Ass'y (400).
  Don't forget to install the Color Adjust Knob (102) into the Top Case (100), and joint it into the Tint Potentiometer (VR401).

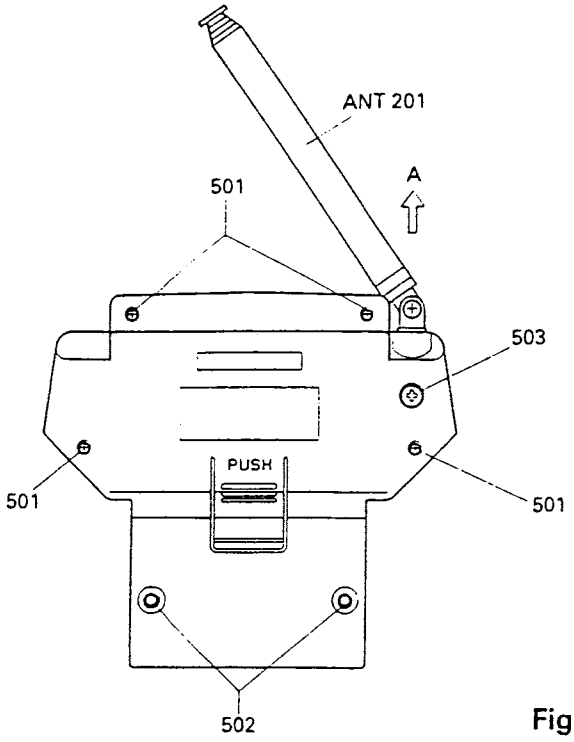


Fig. 1

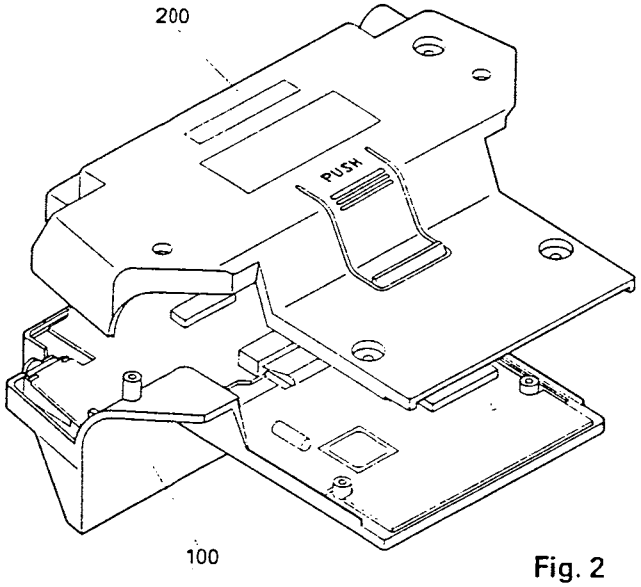


Fig. 2

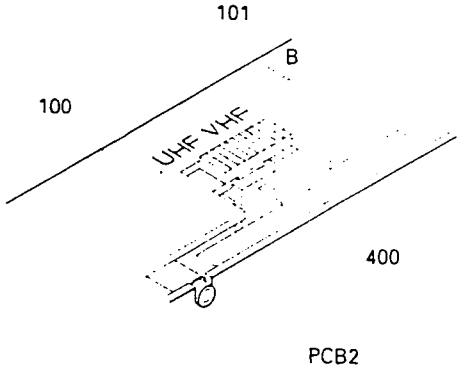


Fig. 3

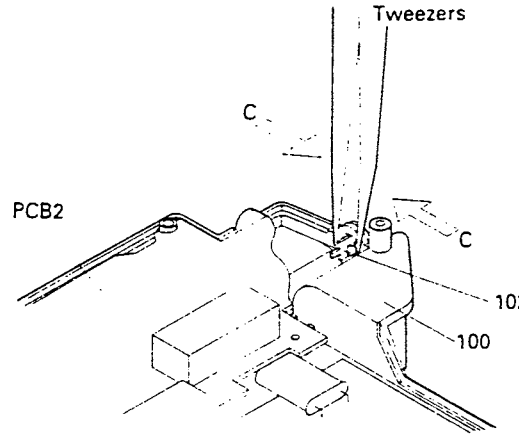


Fig. 4

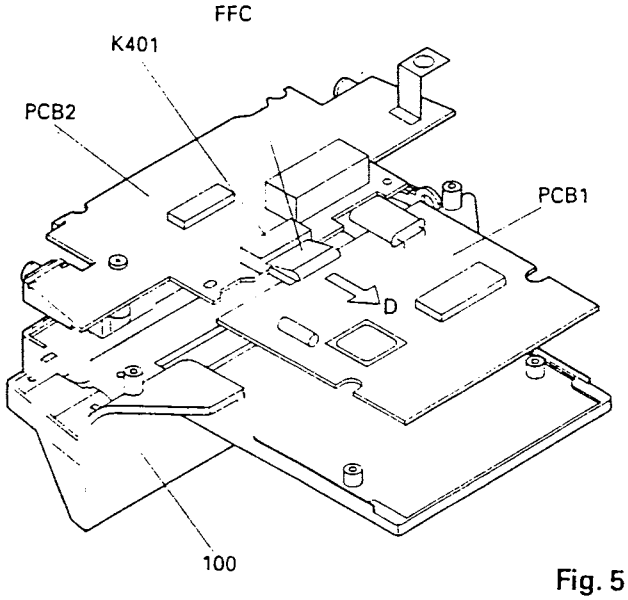


Fig. 5

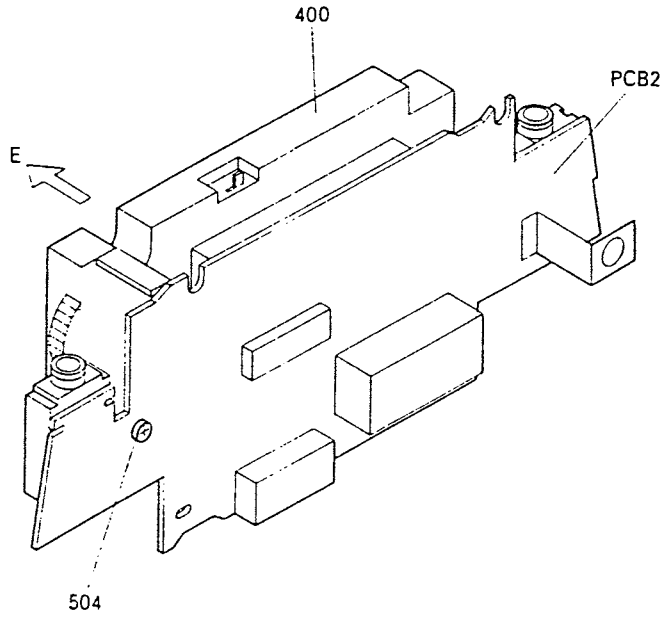


Fig. 6

BLOCK DIAGRAM

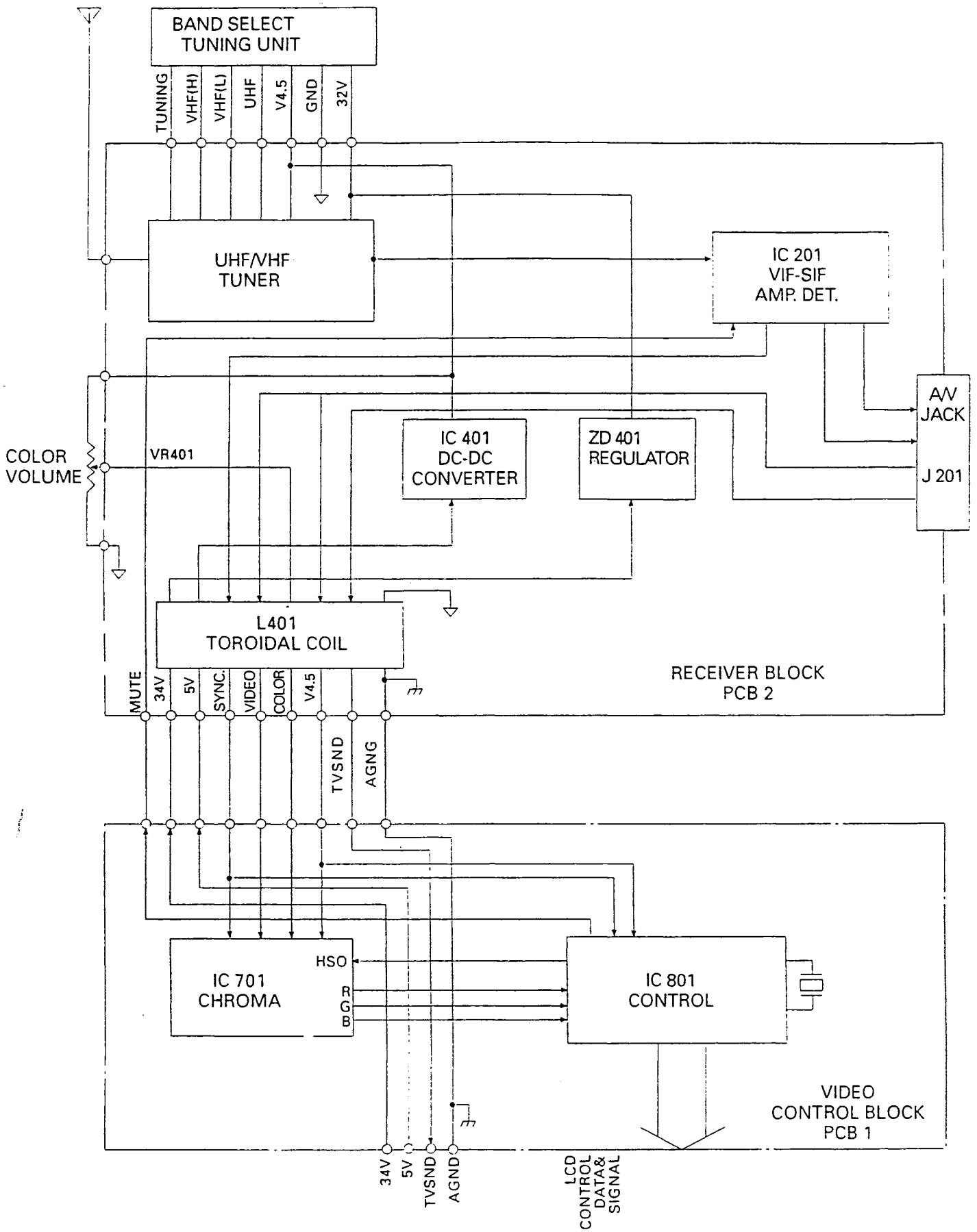


Fig. 7

ADJUSTMENT AND ALIGNMENT

GENERAL DESCRIPTION

The adjustments and alignments outlined here are only required after the components listed below are replaced in particular parts.

The following adjustments are required:

We Posess

No.	ITEM	PCB	ADJUST-MENT	REMARKS	MEASURING INSTRUMENT
1	Video IF Alignment And AFT Alignment	PCB-2	L202 L201		• Sweep Marker Generator • Alignment Scope
2	RF AGC Delay Alignment	PCB-2	VR201 VR202		• Color Pattern Generator • AM, FM Signal Generator • Channel Signal Generator • DC Voltmetor • Oscilloscope
3	Tuning Dial Calibration	PCB-2	VR1 VR2 VR3 VR4		• Color Pattern Generator • AM, FM Signal Generator • Channel Signal Generator • Oscilloscope
4	Gradation Alignment	PCB-1	VR801 VR802		• Pattern Generator
5	RGB Phase Alignment	PCB-1	TC701		• Color Pattern Generator • Oscilloscope
6	PLL Alignment	PCB-1	TC801		• Color Pattern Generator • Oscilloscope

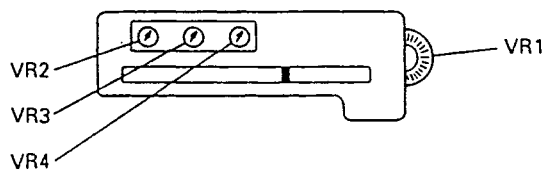


Fig. 8

1. SYSTEM VOLTAGE INSPECTION (PCB-2)

1 Connect an I/O TERMINAL (K401) to 5.0 V and 34.0 V DC external power supply.
2 Set the power switch to ON.
3 • Output voltage 4.5 V DC ± 0.2 V at TP401?
  • Output voltage 32.0 V DC ± 1.0 V at TP404?

2. VIDEO IF ALIGNMENT AND AFT ALIGNMENT (PCB-2)

1 Set the tuning wheel to the lowest unused VHF.
2 Set the marker of Alignment Scope. e: 38.9 MHz
3 Set the switch of Sweep Marker Generator to the AC.
4 Remove the solder bridge SR101, 201.
5 Connect a DC power supply (+5.0 V) between TP405 and TP402.
6 Connect a DC power supply (+34 V) to TP406.
7 Connect a DC power supply (+3.5 V) to TP205.
8 Connect a 0.01 µF capacitor between TP204 and the OUT terminal of Sweep Marker Generator.
9 Connect TP207 to the IN terminal of Sweep Marker Generator.
10 VIF ALIGNMENT (See table)
11 Connect the GND to TP205.
12 Connect TP202 to the OUT terminal of Sweep Marker Generator.
13 Connect TP107 to the IN terminal of Sweep Marker Generator.
14 AFT ALIGNMENT (See table)

Input Connection	Input Point	Input Signal	Step	Adjust	Output Connection	Output Point	Adjust For
• Sweep Marker Generator	TP204	IF: 38.9 MHz 70 dBµ	1 VIF	L202	• Sweep Marker Generator • Alignment Scope	TP207	Adjust L202 to obtain a suitable size curve on the alignment scope as shown in Fig. 10
	TP202	IF: 38.9 MHz 70 dBµ	2 AFT	L201		TP107	Adjust L201 for setting the marker (d) between the peak (a) on positive and the peak (b) on negative as shown in Fig. 11

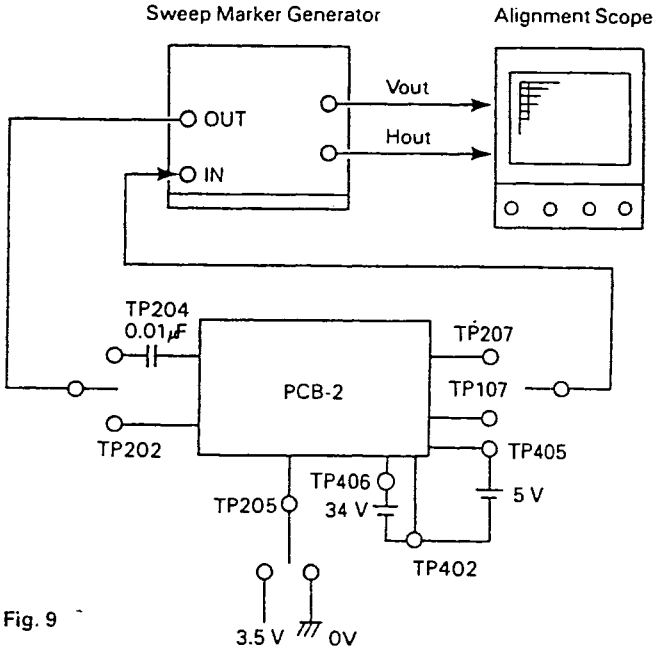


Fig. 9

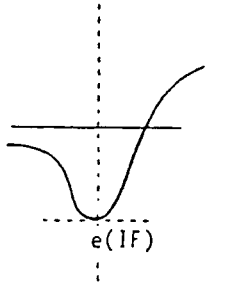


Fig. 10

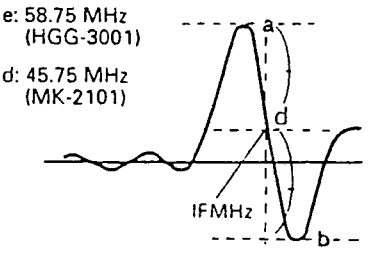


Fig. 11

3. RF AGC DELAY ALIGNMENT (PCB-2)

1 Short the solder bridge SR 101.
  Short the solder bridge SR 201.
2 Remove the solder bridge SR 102.
3 Connect a DC power supply (+ 5.0 V) between TP405 and TP402.
4 Connect a DC power supply (+34.0 V) to TP406.
5 Set the video signal of Color Pattern Generator to white 75%.
6 Turn the channel to CH21.

Input Connection	Input Point	Input Signal	Step	Adjust	Output Connection	Output Point	Adjust For
• Color Pattern Generator • AM·FM Signal Generator • Channel Signal Generator	TP102	• Color Bar • SIF FM RF Frequency 5.5 MHz Frequency Deviation 50 kHz, Tone Signal 1 kHz, Output 90 dBμ • Channel Signal: 471.25 MHz 70 dBμ	1	VR202 See PCB-2 Top View	Oscilloscope	TP207	Adjust VR202 to obtain a suitable size wave on the oscilloscope as shown in Fig. 13-a
			2	VR201 See PCB-2 Top View			Adjust VR201 until the minimum noise is obtained at the point (a) and not to break the horizontal synchronizing signal. Fig. 13-b

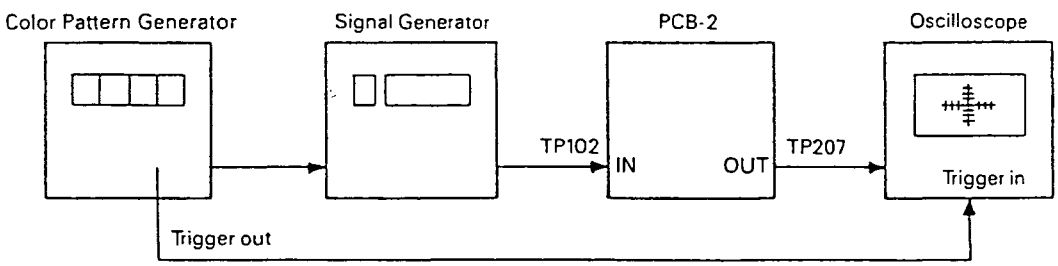


Fig. 12

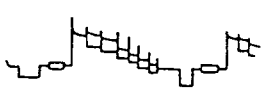


Fig. 13-a

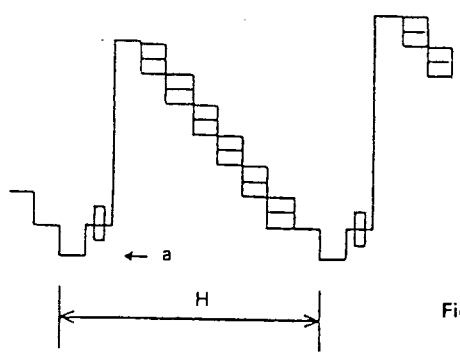


Fig. 13-b

4. TUNING DIAL CALIBRATION (PCB-2)

1 Short the solder bridge SR 101 and SR 201.
2 Connect a DC power supply (+ 5.0 V) between TP405 and TP402.
3 Connect a DC power supply (+34.0 V) to TP406.
4 Input the standard TV RF signal to TP102

Input Equipment	Input Point	Input Signal	Step	Adjust	Output Connection	Output Point	Adjust For
• Color Pattern Generator • Signal Generator	TP102	Set the band select switch to VHF and tune the Channel to CH C					
		82.25 MHz 70 dBμ	1	VR2 (See PCB-2 Top View)		TV	Adjust to the TV screen becomes a clear.
		Tune the Channel to CH 12					
		224.25 MHz 70 dBμ	2	VR3 (See PCB-2 Top View)		TV	Adjust to the TV screen becomes a clear.
		Check channel C. If the TV screen not became clear picture, try again Step. 1, 2.					
	TP102	Set the band select switch to UHF and tune the Channel to CH 69					
		855.25 MHz 70 dBμ	3	VR4 (See PCB-2 Top View)		TV	Adjust to the TV screen becomes a clear.
		Check channel 21 If the TV screen not became clear picture, try again Step. 3, 4.					

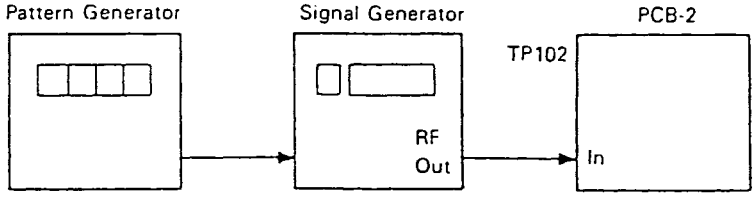


Fig. 14

5. GRADATION ALIGNMENT AND BRIGHTNESS ALIGNMENT (PCB-1)

1 Connect PCB-2 by FFC.
2 Input DC power supply (+9.0 V) to power Jack of G & G.
3 Input Video Signal to AV Jack (J201) of PCB-2.
4 Adjust the bright volum of G & G to obtain the suitable brightness.

Input Equipment	Input Point	Input Signal	Step	Adjust	Output Connection	Output Point	Adjust For	
• Color Pattern Generator	J201 AV Jack (PCB-2)	Luminance (Fig. 16)	1	VR701 VR702	G & G Display		Adjust VR701 and VR702 as shown in Fig. 17.	MK-2101

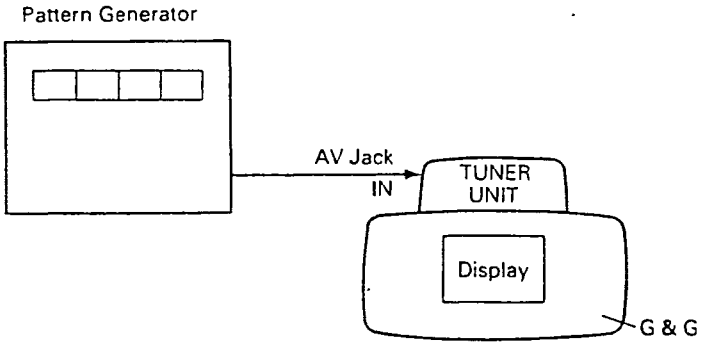


Fig. 15

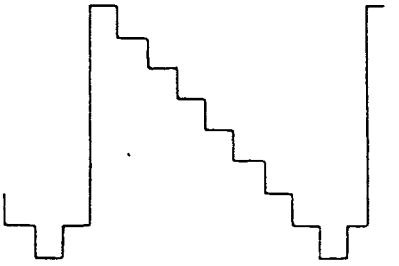


Fig. 16

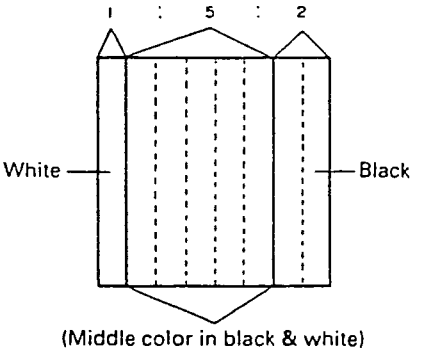


Fig. 17

6. PLL ALIGNMENT (PCB-1)

1 Connect PCB-2 by FFC.
2 Input DC power supply (+9.0 V) to Power Jack of G & G.
3 Input Video signal to AV Jack of J201.

Input Equipment	Input Point	Input Signal	Step	Adjust	Output Connection	Output Point	Adjust For
• Color Pattern Generator	J201 AV Jack (PCB-2)	Color Bar	1	TC801 (See PCB-1 Top View)	Oscilloscope	TP825 (See PCB-1 Top View)	Adjust TC801 as shown in Fig. 19.

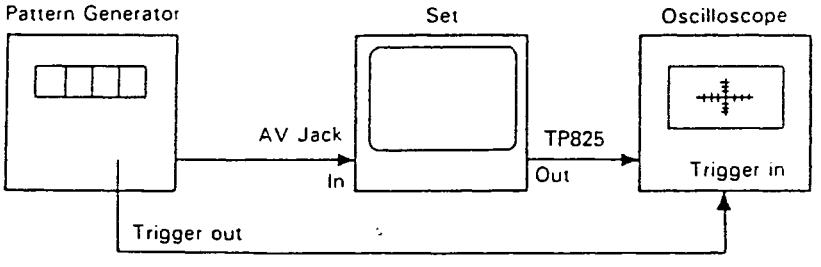


Fig. 18

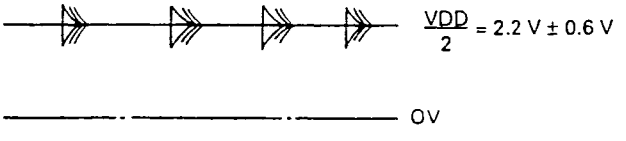


Fig. 19

7. RGB PHASE ALIGNMENT

1 Connect a PCB-2 by FFC.
2 Input DC power supply (+9.0 V) to Power Jack of G & G.
3 Adjust bright volum of G & G to obtain the suitable brightness.
4 Input Video Signal to AV Jack of J201.

Input Equipment	Input Point	Input Signal	Step	Adjust	Output Connection	Output Point	Adjust For
• Color Pattern Generator	J201 AV Jack (PCB-2)	Color Bar	1	CT701 See PCB-1	Oscilloscope	TP825 See PCB-1	Adjust CT701 as shown in Fig. 21. Voltage ⓐ equal to Voltage ⓑ.

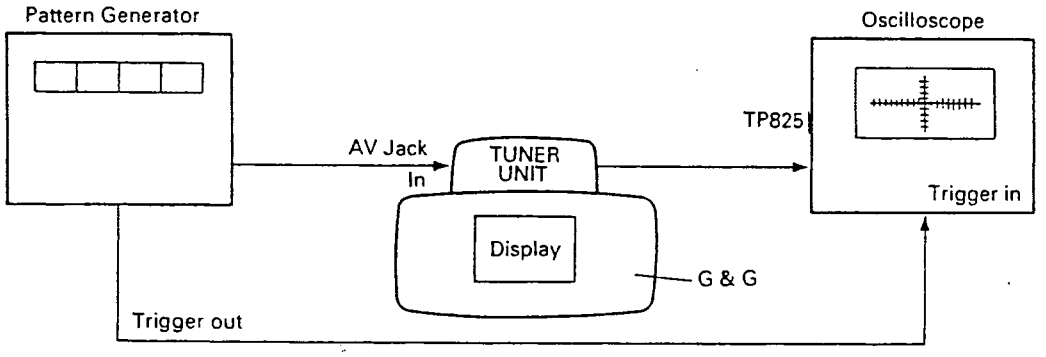


Fig. 20

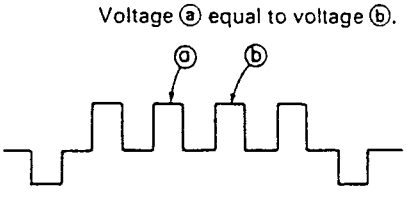


Fig. 21

TROUBLE SHOOTING CHART

1. POOR PICTURE OR NO PICTURE

- Supply 9.0 V DC at Power jack of G & G
- Connect external antenna to TV ANT.
- Tune a channel for TV.

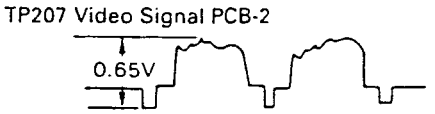
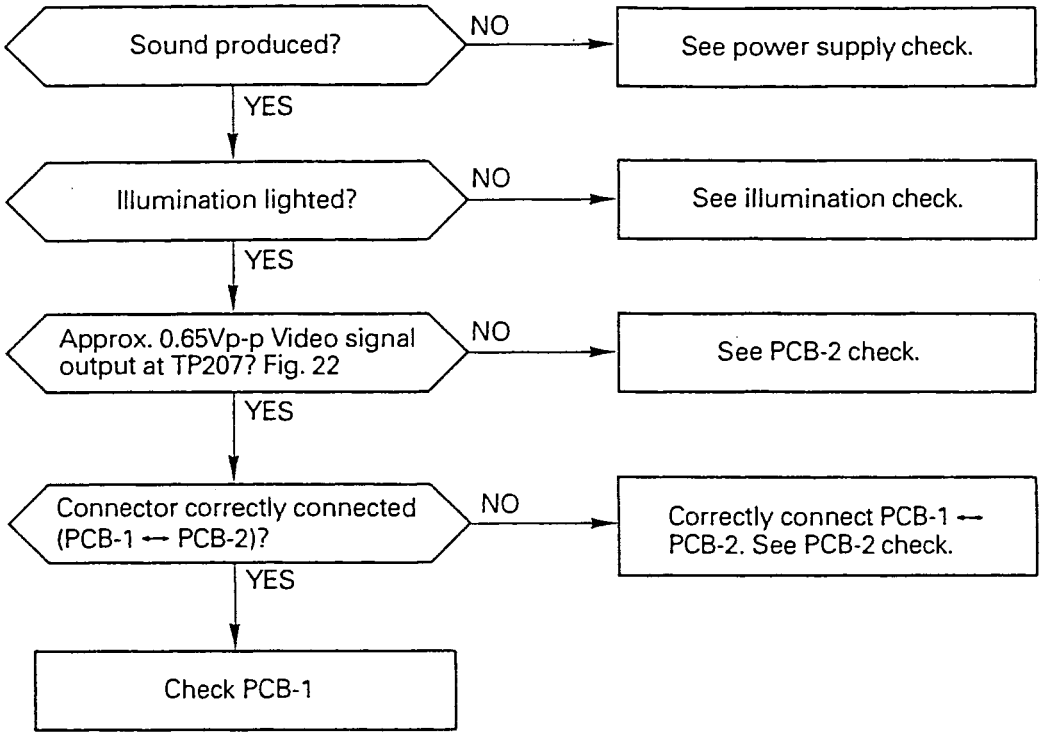


Fig. 22



2. NO SOUND

See PCB-2 check.

3. NO COLOR

See PCB-1 check.

4. NO TUNING

See PCB-2 check.

5. SINGLE LINE

LCD panel

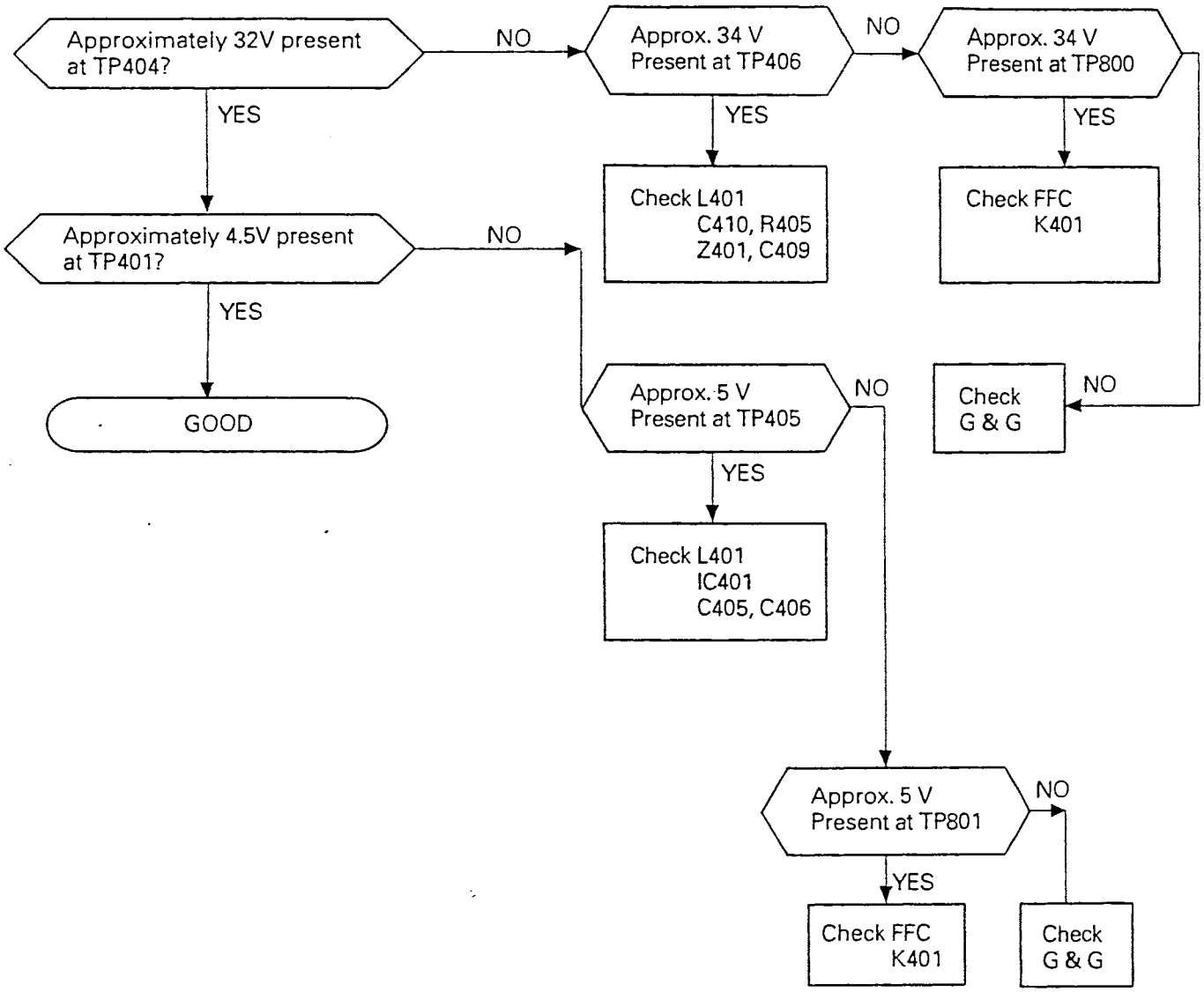
6. WHITE OR BLACK POT ON LCD PANEL

LCD panel

7. CHECK CHART

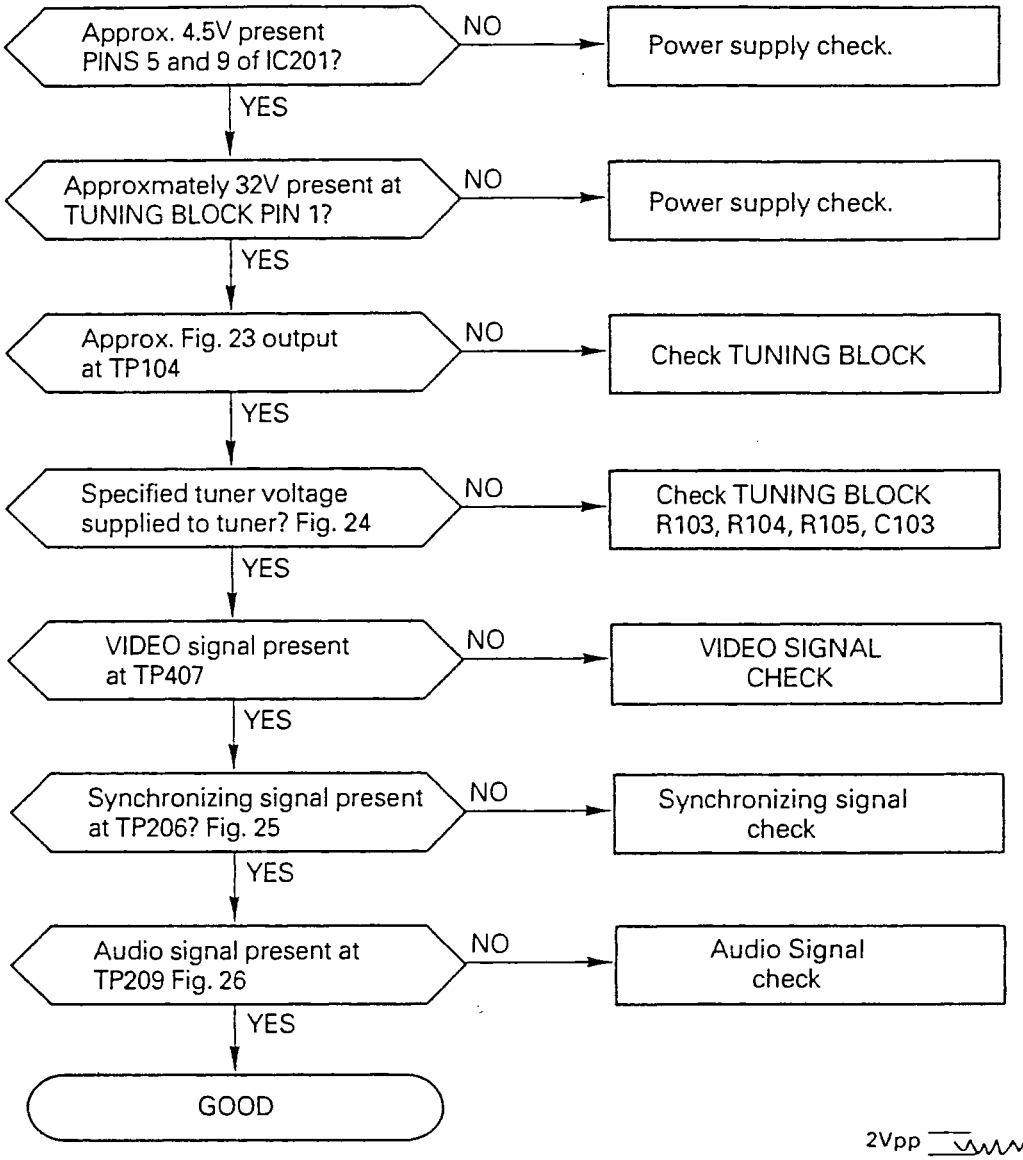
7-1 Power Supply Check (PCB-2)

- Supply 9.0V DC at Power jack of G & G



7-2 PCB-2 Check

- Connect an external antenna to TV ANT.
- Connect a DC Power Supply (+34.0V) to TP406.
- Connect a DC Power Supply (+5.0V) between TP405 and TP402.



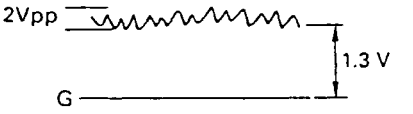


Fig. 26

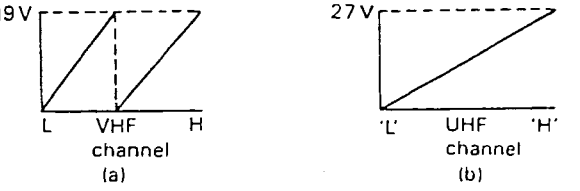
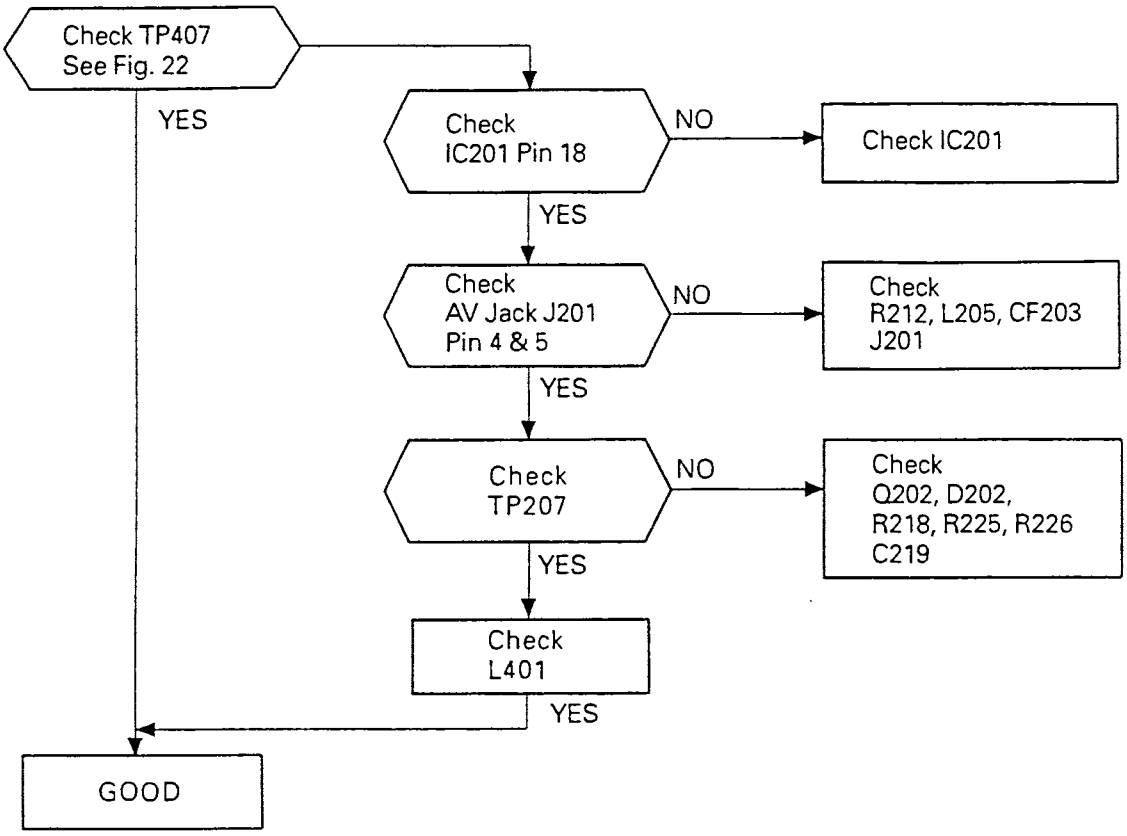


Fig. 23

- No picture
- Video Signal check



TP206 synchronizing signal

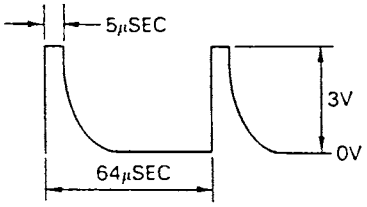


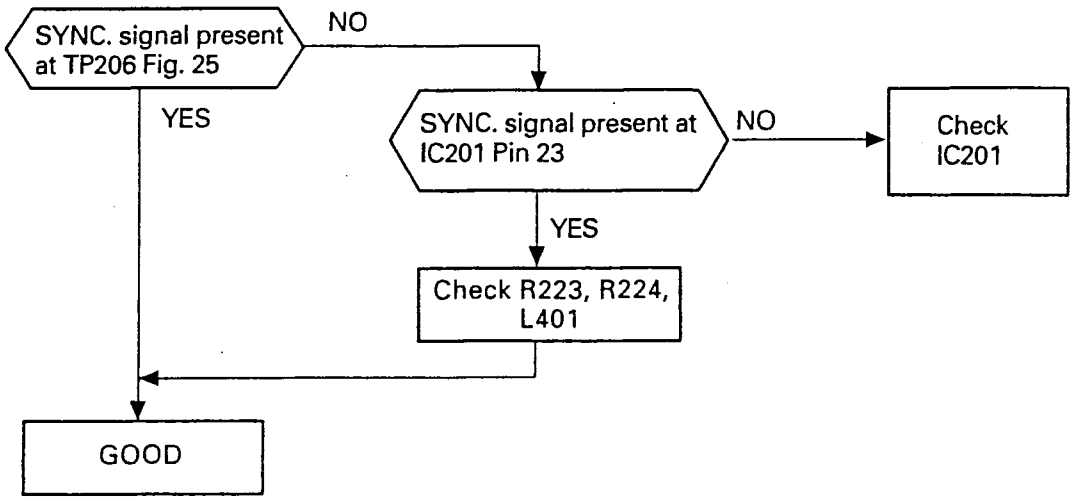
Fig. 25

Fig. 24
Specified Tuner Voltage

	VHF (L)	VHF (H)	UHF
UB	—	—	4.5V
TU	3~19V	8~19V	2~27V
BS	approx. 20V	approx. 0V	—
VB	4.5V	4.5V	—
MB	4.5V	4.5V	4.5V

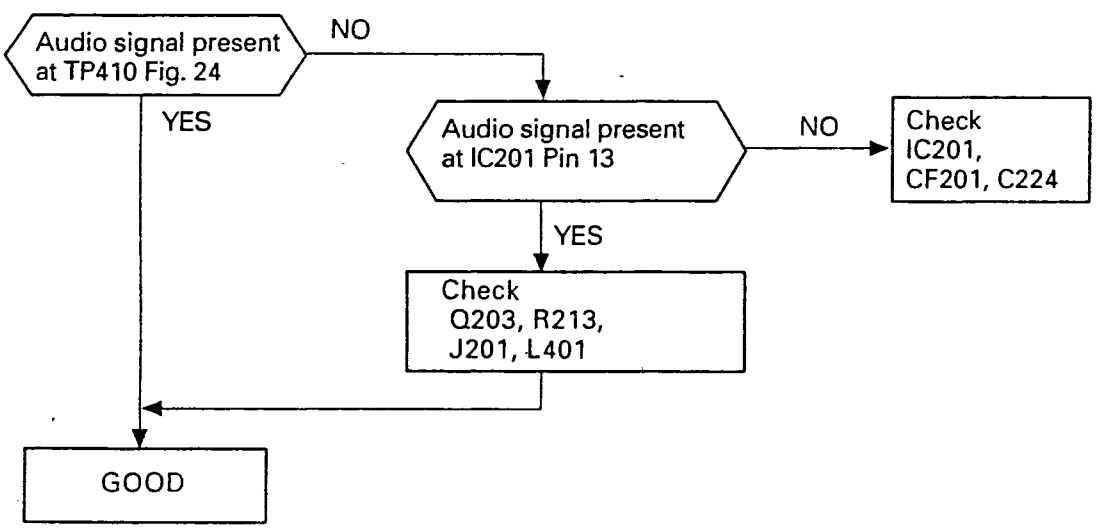
NO SYNCHRONIZING

Synchronizing signal check



NO SOUND

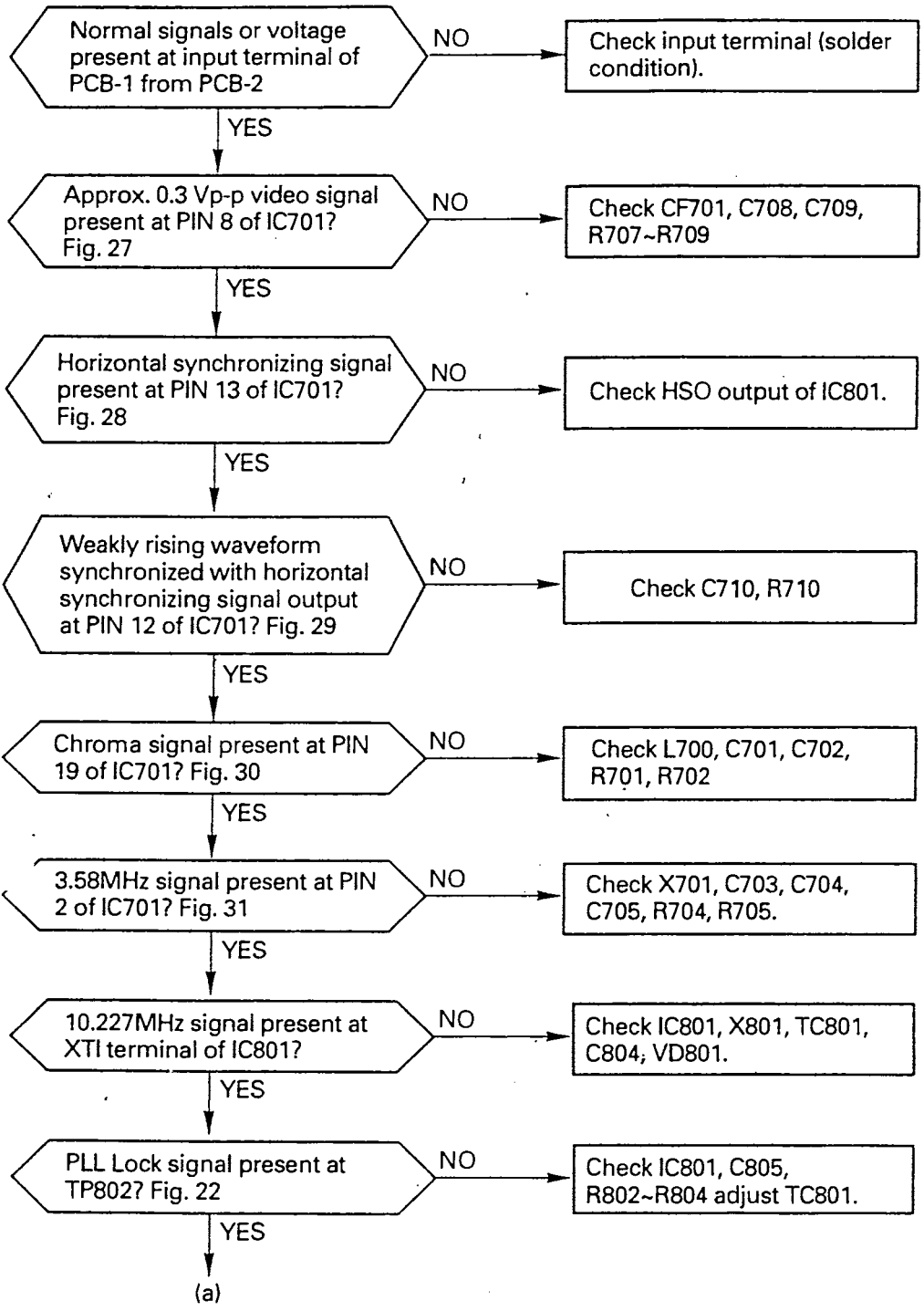
Audio signal check

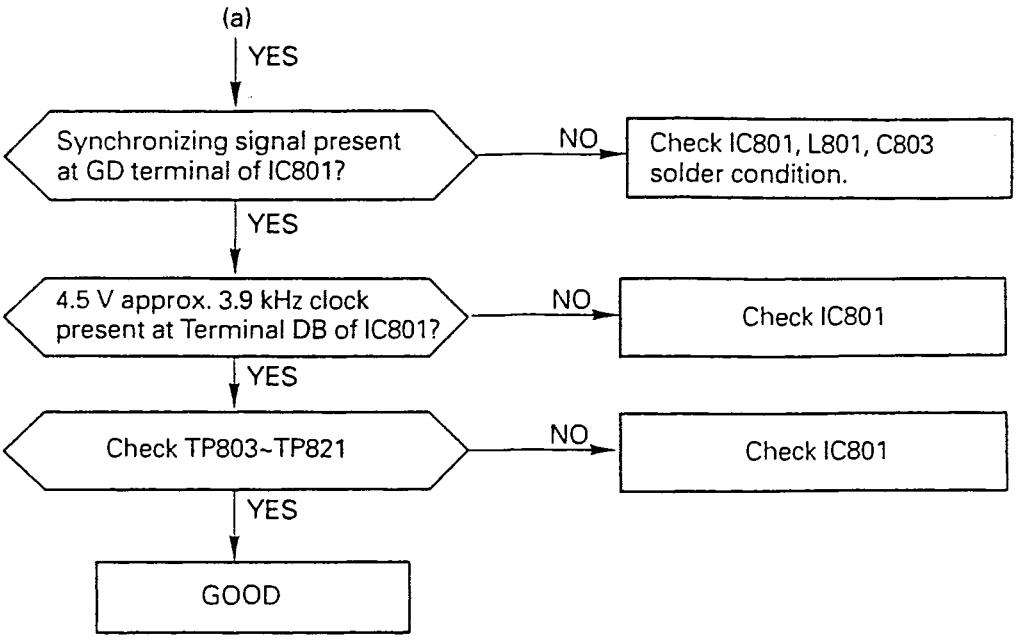


7-3 PCB-1 Check

- Connect PCB-1 from PCB-2.

Input video signal to AV Jack (J201).





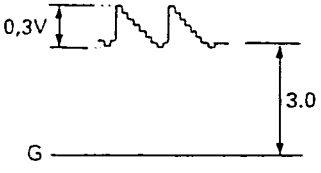


Fig. 27

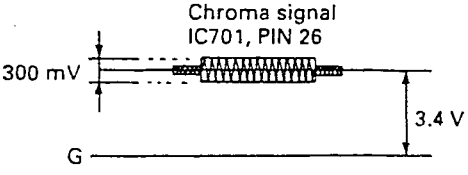


Fig. 30

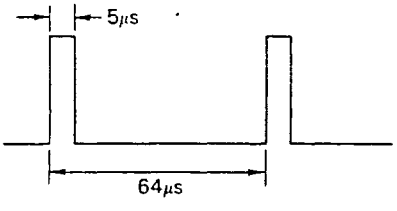


Fig. 28

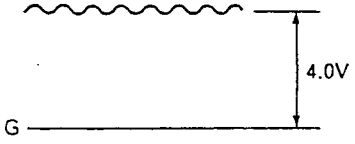


Fig. 31

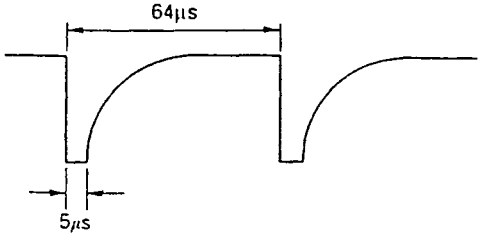


Fig. 29

ELECTRIC PARTS LIST

VIDEO PCB ASSEMBLY (PCB-1)

Ref. No.	Description			Mfr's Parts No.
PCB-1	Assembly (PCB-1), PCB, Video Consists of the following:			A51-2810
ITEM	**Qty.**	**Parts code**	**Description**	**Manufacture**
IC				
IC801	1	A71-1130	F5032B3	CITIZEN
IC701	1	A71-0710	M51403	MITSUBISHI
Coil				
L701	1	A90-0330	15 μH	MATSUSHITA
L702	1	A90-0360	56 μH	TDK
L801	1	A90-0300	82 μH	MATSUSHITA
Xtal				
X801	1	A75-0800	10.218750 MHz	MIYOTA
X701	1	A75-1040	4.43 MHz	TOKYO DENPA
Ceramic Filter				
CF701	1	A75-0150	TPS4.43MJ	MURATA
Varicap Diode				
VD801	1	A73-0280	MA341	MATSUSHITA
Variable Capacitor				
TC801, TC701	2	A89-0030	30P	KYOCERA
Potentiometer				
VR801, VR802	2	A83-0620	50K	ALPS, TEITSU MATSUSHITA
Ceramic Capacitor				
C707	1	W52-0502	5 p F-50V	MURATA KYOCERA
C705, C706	2	W52-6801	68 p F-50V	
C711	1	W52-8201	82 p F-50V	
C718	1	W52-1011	100 p F-50V	
C808	1	W52-1211	120 p F-50V	
C716, C720	2	W52-3311	330 p F-50V	
C702, C703, C803	3	W32-1022	1000 p F-50V	
C708	1	W32-1522	1500 p F-50V	
C710, C717, C807	3	W32-1032	0.01 μ F-50V	
C701, C704, C709, C713 C714, C719, C804, C805 C806	9	W42-1049	0.1 μ F-25V	
Resistor				
R707, R709	2	W22-0R00	1/10W- 0 Ω	ROHM HOKURIKU KYOCERA
R710, R711	2	W22-2213	1/10W- 220 Ω	
R701	1	W22-3913	1/10W- 390 Ω	
R805, R806, R807, R808, R809, R810	6	W22-5113	1/10W- 510 Ω	
R712, R713, R802	3	W22-1023	1/10W- 1 k Ω	
R702	1	W22-1523	1/10W- 1.5 k Ω	

ITEM	Qty.	Parts code	Description	Manufacture
Resistor				
R703	1	W22-1033	1/10W- 10 k Ω	
R705	1	W22-5133	1/10W- 51 k Ω	
R803, R804	2	W22-1043	1/10W- 100 k Ω	ROHM
R706	1	W22-1243	1/10W- 120 k Ω	HOKURIKU
R704	1	W22-2243	1/10W- 220 k Ω	KYOCERA
R708	1	W22-3343	1/10W- 330 k Ω	
Miscellaneous				
FFC	1	A53-0350	PCB1 contact cable	SATORI

TV RECEIVER PCB ASSEMBLY (PCB-2)

Ref. No.	Description		Mfr's Parts No.
PCB-2	Assembly (PCB-2), PCB, TV Receiver	(MK-2101-05)	A51-2820
		(MK-2101-18)	A51-2830
	Consists of the following:	(MK-2101-20)	A51-2840

ITEM	Qty.	Parts code	Description	Manufacture
Jack				
J201	1	A62-0040	AV JACK	HOSHIDEN
J101	1	A62-0020	EXT ANT	HOSHIDEN
			NOT USE (MK-2101-18)	
Tuner				
TU101	1	A51-2100	TEPZ5-002A	ALPS
IC				
IC201	1	A71-0230	M51348AFP	MITSUBISHI
IC401	1	A71-2000	MM1060ZMR	MITSUMI
Coil				
L201, L202	2	A80-0160	294SN-0796z	TOKO
L401	1	A79-0460	D-45C	TOKIN
L203	1	A90-0410	0.39 µH	TAIYO YUDEN
L204	1	A90-0350	2.7 µH (MK-2101)	TAIYO YUDEN
L205	1	A90-0330	15 µH	TDK
Ceramic Capacitor				
CF201 (MK-2101-18, -20)	1	A75-0760	SFSL5.5MDB	MURATA
CF201 (MK-2101-05)	1	A75-0830	SFSL6.0MDB	MURATA
CF202 (MK-2101-18, -20)	1	A75-0300	CDA5.5MC30	MURATA
CF202 (MK-2105-05)	1	A75-0310	CDA6.0MC30	MURATA
CF203 (MK-2101-18, -20)	1	A75-0780	TPSL5.5MB	MURATA
CF203 (MK-2101-05)	1	A75-0840	TPSL6.0MB	MURATA
CF204	1	A75-1050	KAF-38.9MS-MP	KYOCERA
Transistor				
Q201	1	W13-3142	C3142	SANYO
Q202, Q203	2	W03-3928	C3928	MITSUBISHI

ITEM	Qty.	Parts code	Description	Manufacture
Diode				
ZD401	1	A73-0390	UPC574J	NEC
D201, D202	2	A73-0340	RLS-73	ROHM
Potentionmeter				
VR401	1	A83-0350	100K	ALPS
VR201, VR202	2	A83-0530	50K	MATSUSHITA
Electrolytic Capacitor				
C409	1	A86-0010	1 μF/50V	
C222	1	A86-0430	2.2 μF/50V	
C205, C218	2	A86-0060	3.3 μF/50V	ELNA
C410	1	A86-0510	4.7 μF/50V	RUBICON
C204, C405, C406	3	A86-0350	47 μF/10V	NICHICON
C401	1	A86-0280	100 μF/6.3V	
C219	1	A86-0450	N 10 μF/10V	
Ceramic Capacitor				
C211	1	W52-2701	27 p F-50V	
C212, C213	2	W52-6201	62 p F-50V	
C223	1	W52-8211	820 p F-50V	
C201, C203, C206	3	W32-1022	1000 p F-50V	
C216	1	W32-1522	1500 p F-50V	
C220	1	W32-5622	5600 p F-50V	MURATA
C202, C209, C214, C217, C221, C224	6	W32-1032	0.01 μ F-50V	KYOCERA
C101, C102, C104, C105, C207, C208, C215, C402, C407	9	W42-1049	0.1 μ F-25V	
C103, C210	2	W43-2244	0.22 μ F-25V	
Resistor				
R001	1	W22-0R00	1/10W-0Ω	
R103	1	W22-0R00	1/10W-0Ω	
R227	1	W22-4R73	1/10W-4.7Ω	
R205	1	W22-2203	1/10W-22Ω	
R228	1	W22-5103	1/10W-51Ω	
R201	1	W22-1813	1/10W-180Ω	
R218	1	W22-2213	1/10W-220Ω	
R204	1	W22-2713	1/10W-270Ω	ROHM
R212	1	W22-3313	1/10W-330Ω	HOKURIKU
R213, R214, R222, R224	4	W22-4713	1/10W-470Ω	KYOCERA
R223, R405	2	W22-1023	1/10W-1kΩ	
R219	1	W22-1023	1/10W-1kΩ	
R203	1	W22-2223	1/10W-2.2kΩ	
R211	1	W22-3323	1/10W-3.3kΩ	
R217	1	W22-4723	1/10W-4.7kΩ	
R202	1	W22-6823	1/10W-6.8kΩ	
R207	1	W22-8223	1/10W-8.2kΩ	
R225, R226	2	W22-1033	1/10W-10kΩ	

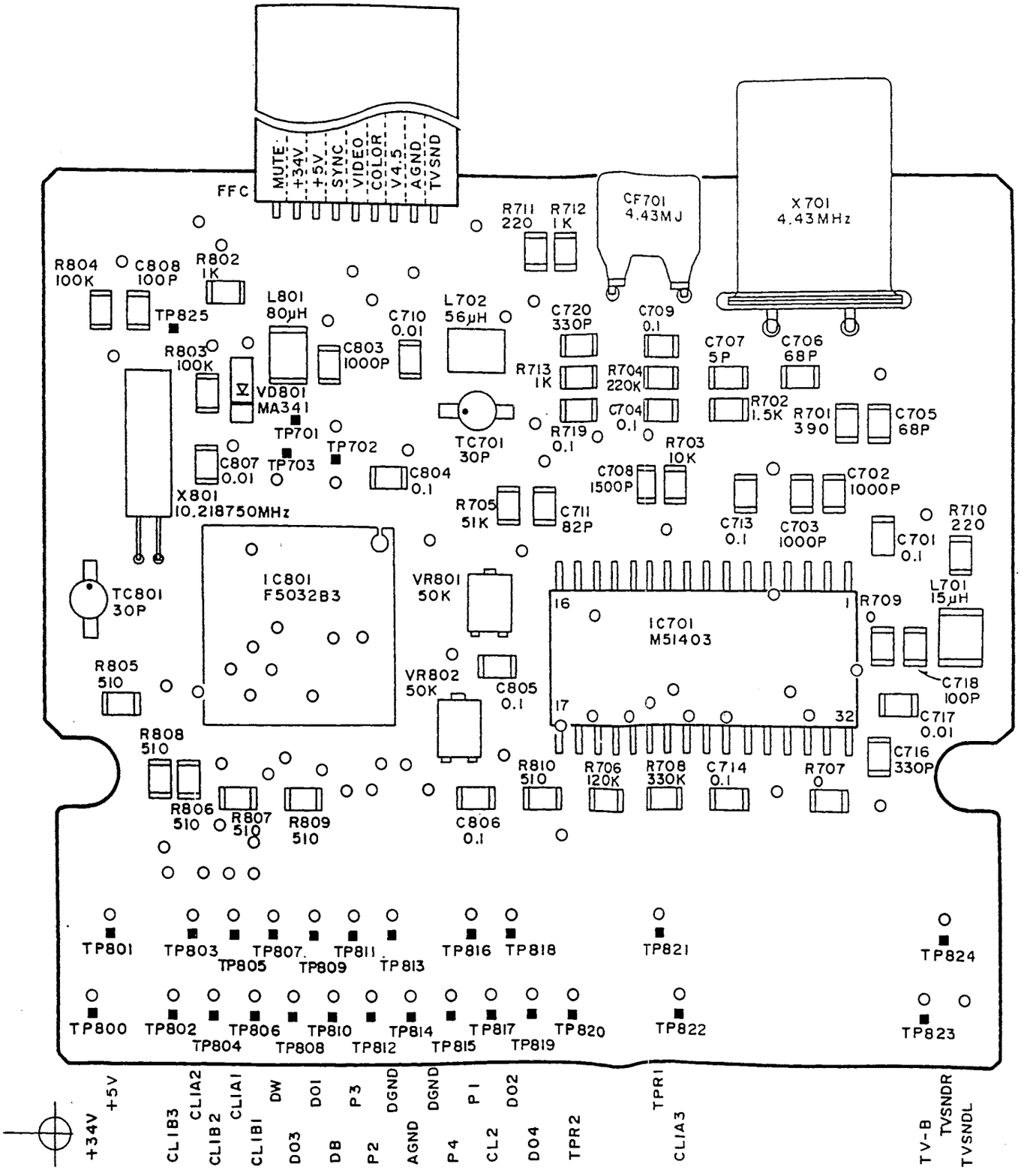
ITEM	Qty.	Parts code	Description	Manufacture
Resistor				
R102	1	W22-1833	1/10W-18kΩ	
R210	1	W22-5133	1/10W-51kΩ	ROHM
R105	1	W22-1043	1/10W-100kΩ	HOKURIKU
R221	1	W22-1843	1/10W-180kΩ	ROHM
R401	1	W22-2243	1/10W-220kΩ	HOKURIKU
R215, R216	2	W22-3943	1/10W-390kΩ	KYOCERA
R101, R104	2	W22-1053	1/10W-1MΩ	
Miscellaneous				
K401	1	A52-0860	9602S-9L	IRISO
K400	1	A54-0310	Z-279-8FD1	HONDA
400	1	A11-1170	CH. indicator	TEITSU
401	1	A12-0530	Lug plate of Ant.	SANKO

EXPLODED VIEW PARTS LIST

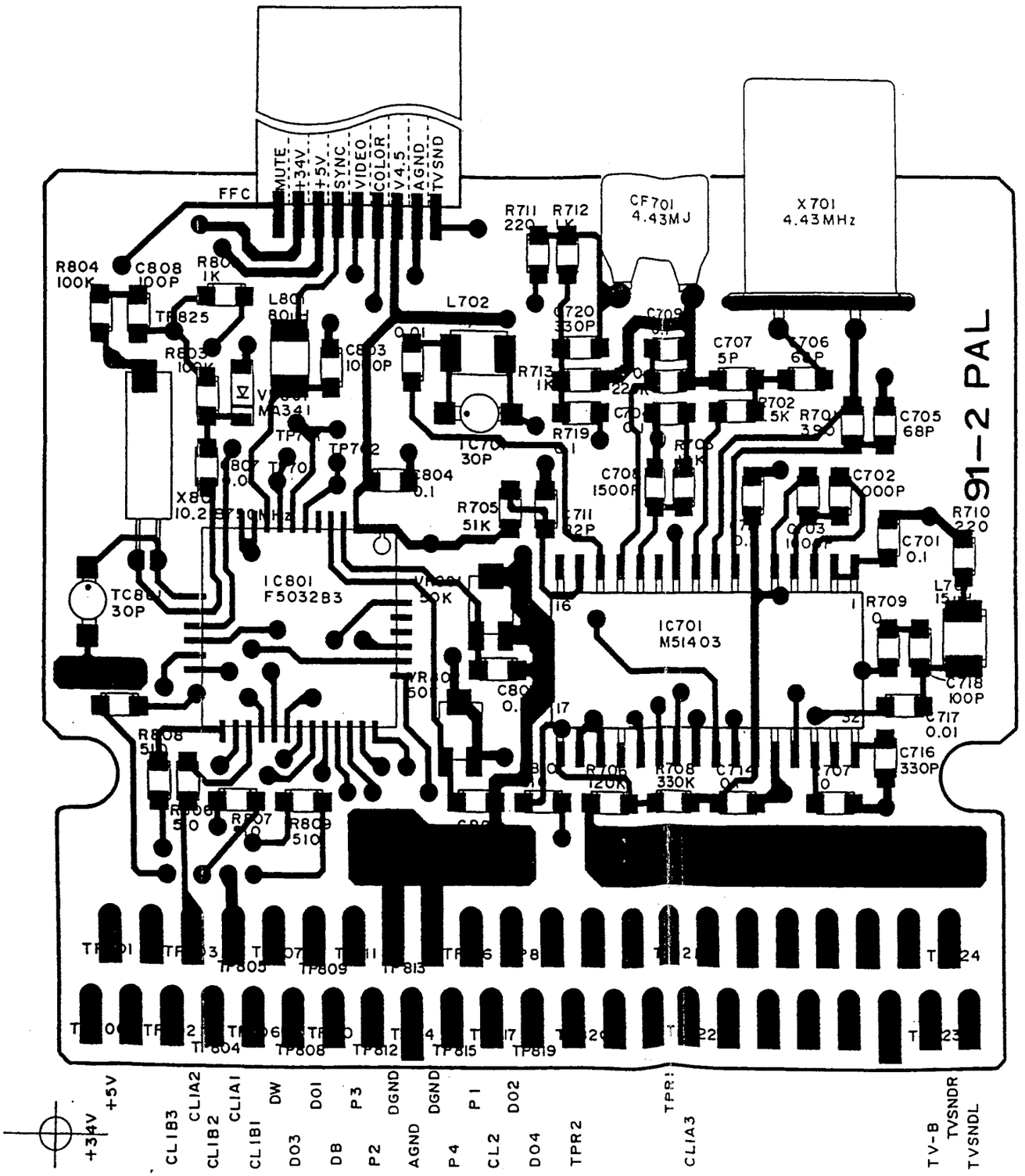
ITEM	Parts code	Description	Manufacture
100	A01-5740	Top Case (Ass'y) (MK-2101-05, -20)	SEGA
100	A01-5780	Top Case (Ass'y) (MK-2101-18)	SEGA
100	A01-6140	Top Case (Ass'y) (MK-2101-20 White)	SEGA
101	A05-0500	Band Select Knob	CITIZEN
102	A05-0580	Color Adjust Knob	CITIZEN
200	A01-5760	Bottom Case (Ass'y) (MK-2101-05)	SEGA
200	A01-5800	Bottom Case (Ass'y) (MK-2101-18)	SEGA
200	A01-5820	Bottom Case (Ass'y) (MK-2101-20)	SEGA
200	A01-6160	Bottom Case (Ass'y) (MK-2101-20 White)	SEGA
ANT201	A64-0240	Rod Antenna	YOKOO
PCB1	A51-2340	Video PCB Ass'y	CITIZEN
PCB2	A51-2830	TV Receiver PCB Ass'y (MK-2101-05)	CITIZEN
PCB2	A51-2840	TV Receiver PCB Ass'y (MK-2101-18)	CITIZEN
PCB2	A51-2440	TV Receiver PCB Ass'y (MK-2101-20)	CITIZEN
400	A11-1170	Channel Indicator Ass'y	TEITSU
K401	A54-0860	9602S-9L	IRISO DENSHI
VR401	A83-0350	Color Potentiometer	ALPS
501	Y23-6806	Tapping Screws B2 × 8mm Pan Head (3) Black	TOKYO BYOUKANE
502	A22-0330	Tapping Screws B2 × 5mm LH Black	TOKYO BYOUKANE
503	A22-0320	Machine Screw M3 × 8mm Flat Head (ø6 × 1t) Ni	TOKYO BYOUKANE
504	A22-0220	Tapping Screw B1.7 × 5mm Flat Head (ø3.5 × 0.9t) Ni	TOKYO BYOUKANE
505	Y04-3001	Spring Lock Washer Ni	TOKYO BYOUKANE
600	A02-1150	Stand	SEGA

PCB (TOP AND BOTTOM VIEWS)

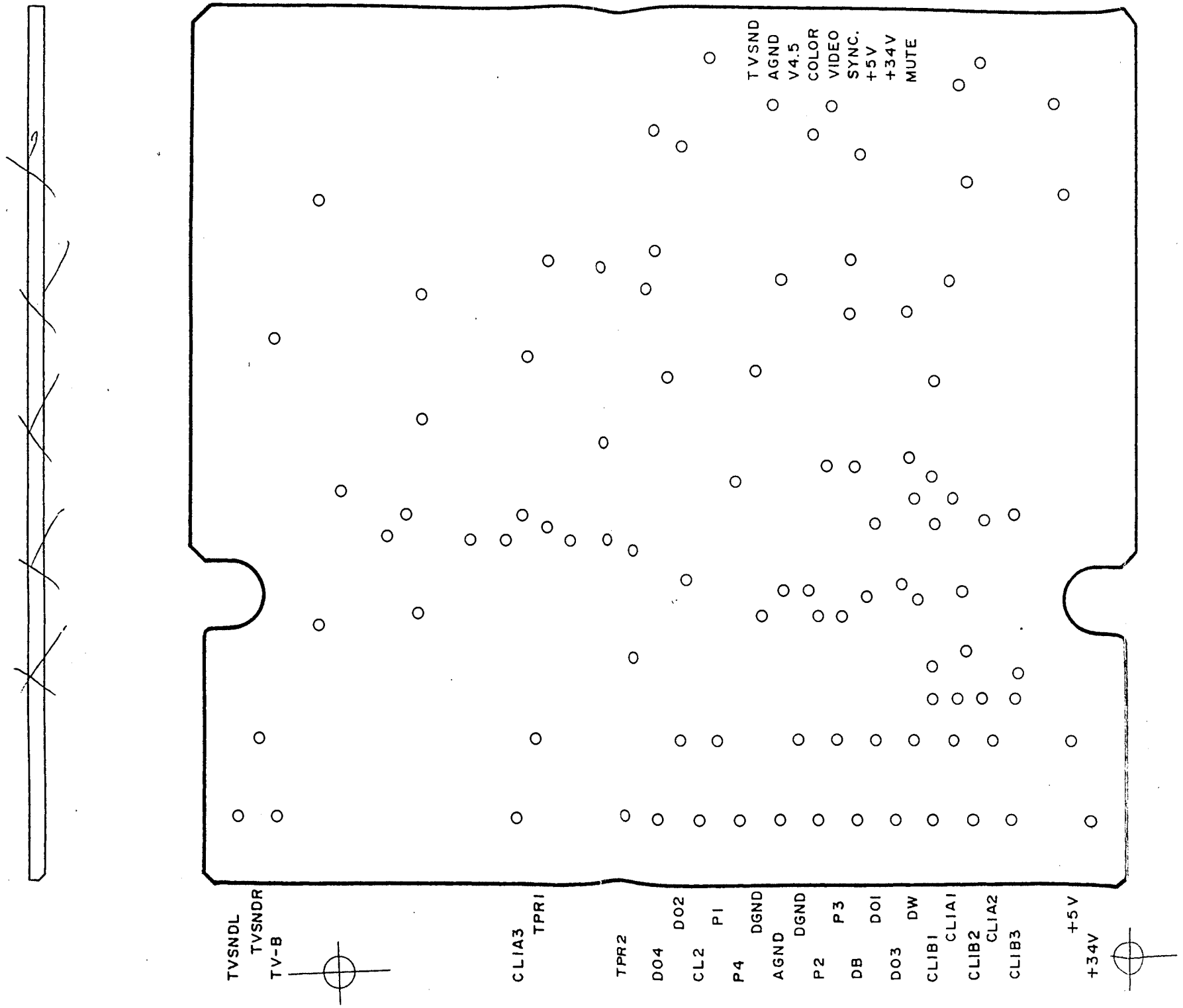
VIDEO PCB ASS'Y (PCB-1)
TOP VIEW



VIDEO PCB ASS'Y (PCB-1)
TOP VIEW

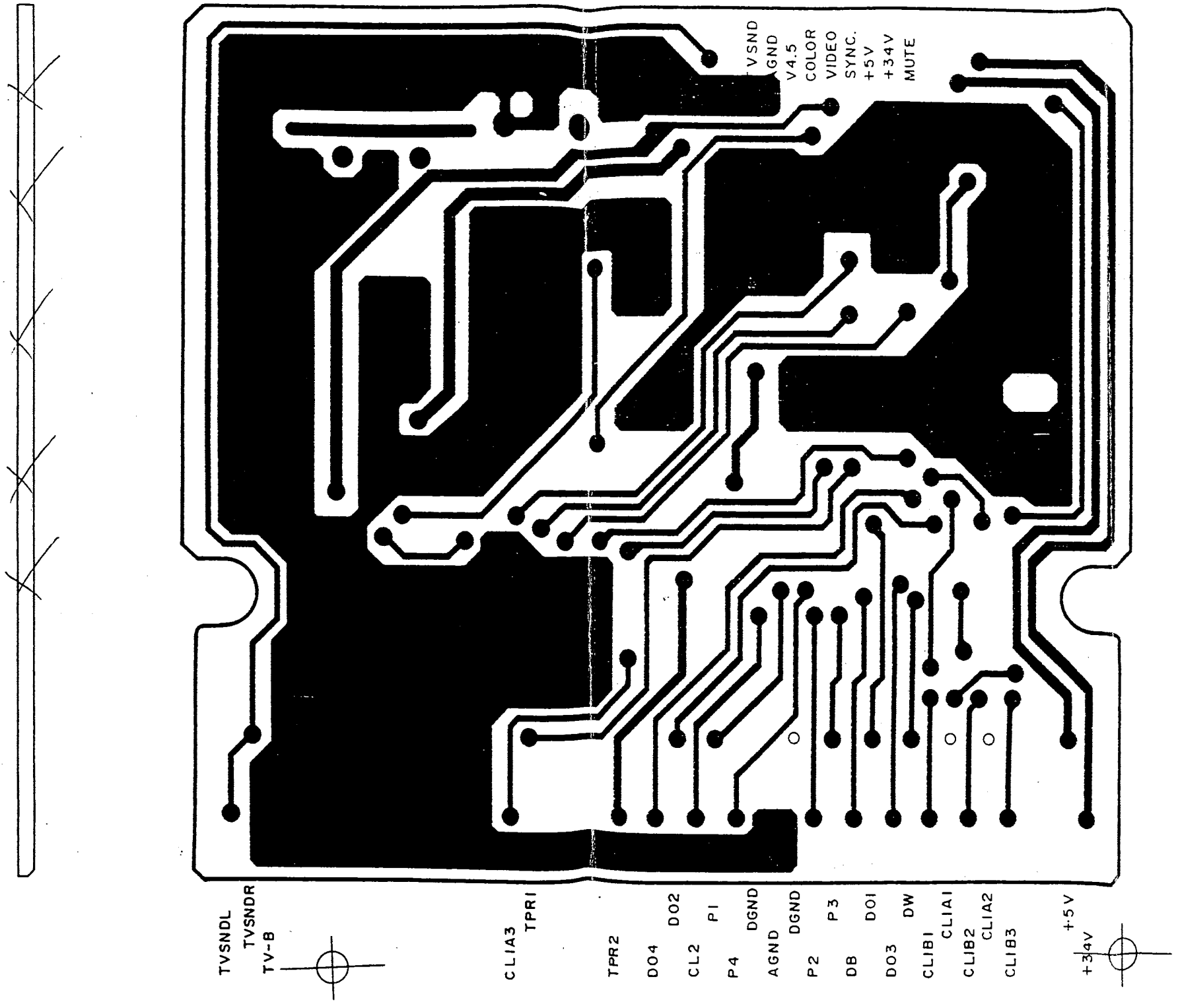


VIDEO PCB ASS'Y (PCB-1)
BOTTOM VIEW



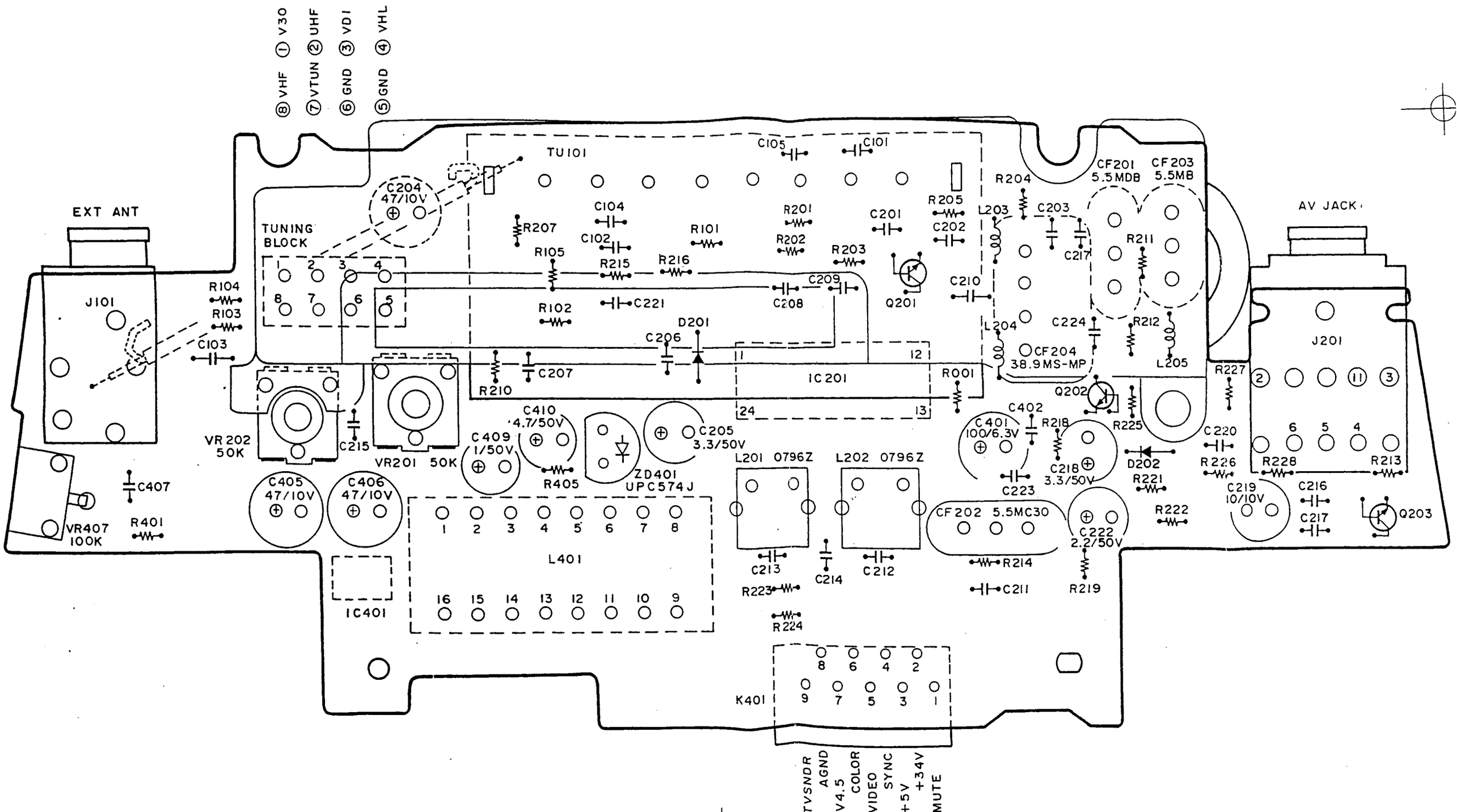
The length of projections of wires must be Max 0.3 mm.

VIDEO PCB ASS'Y (PCB-1)
BOTTOM VIEW

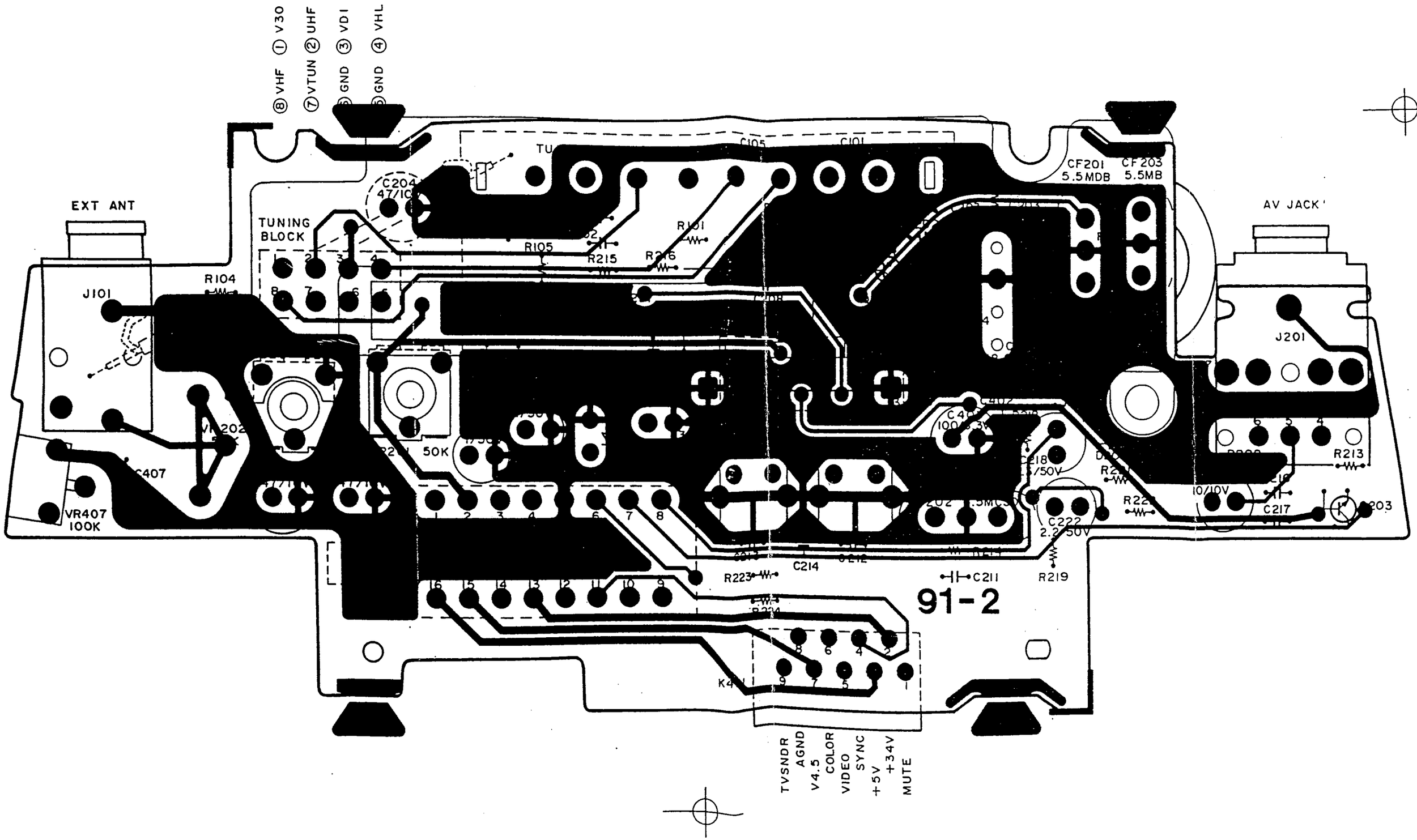


The length of projections of wires must be Max 0.3 mm.

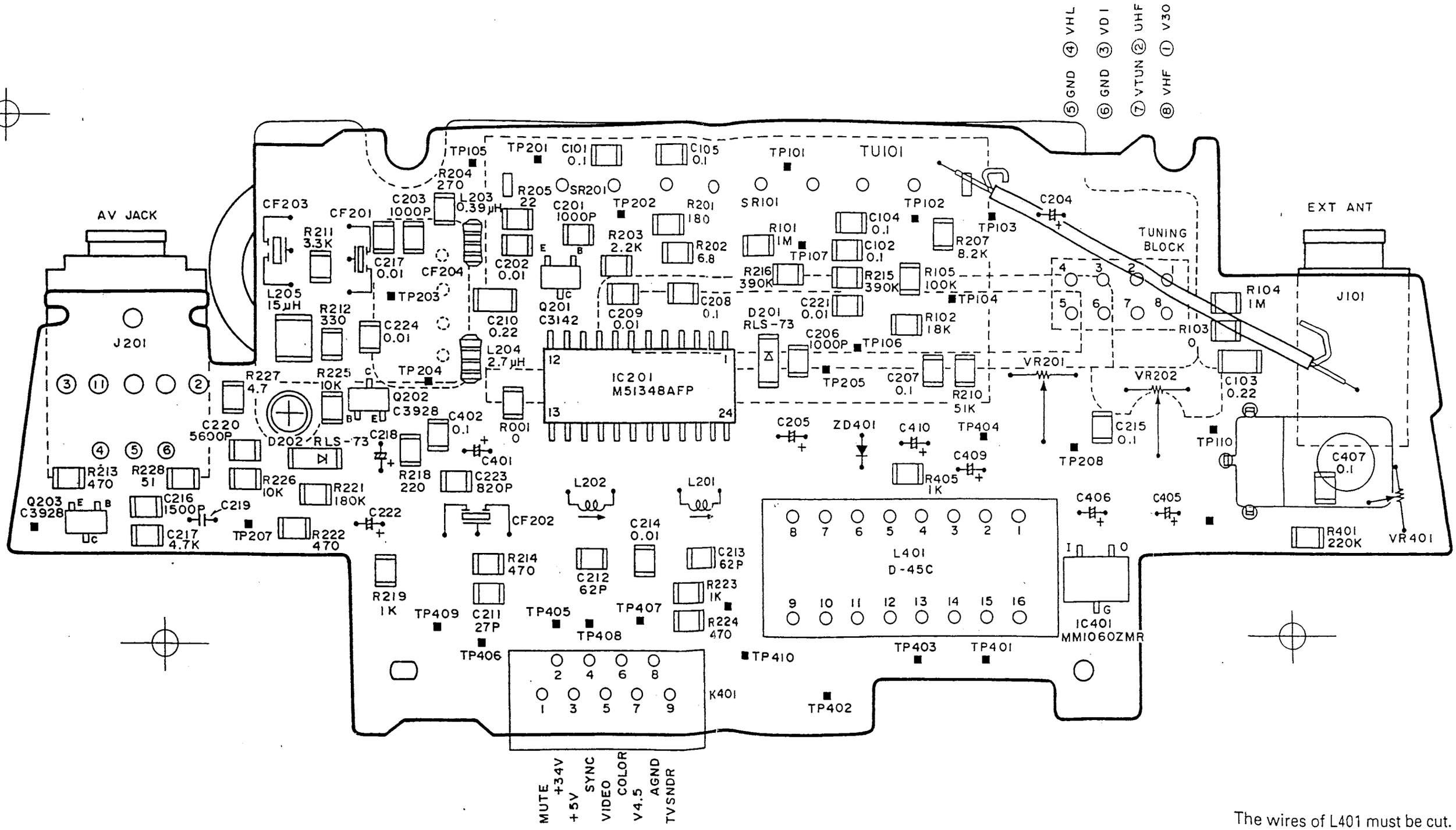
TV RECEIVER PCB ASS'Y (PCB-2)
TOP VIEW



TV RECEIVER PCB ASS'Y (PCB-2)
TOP VIEW

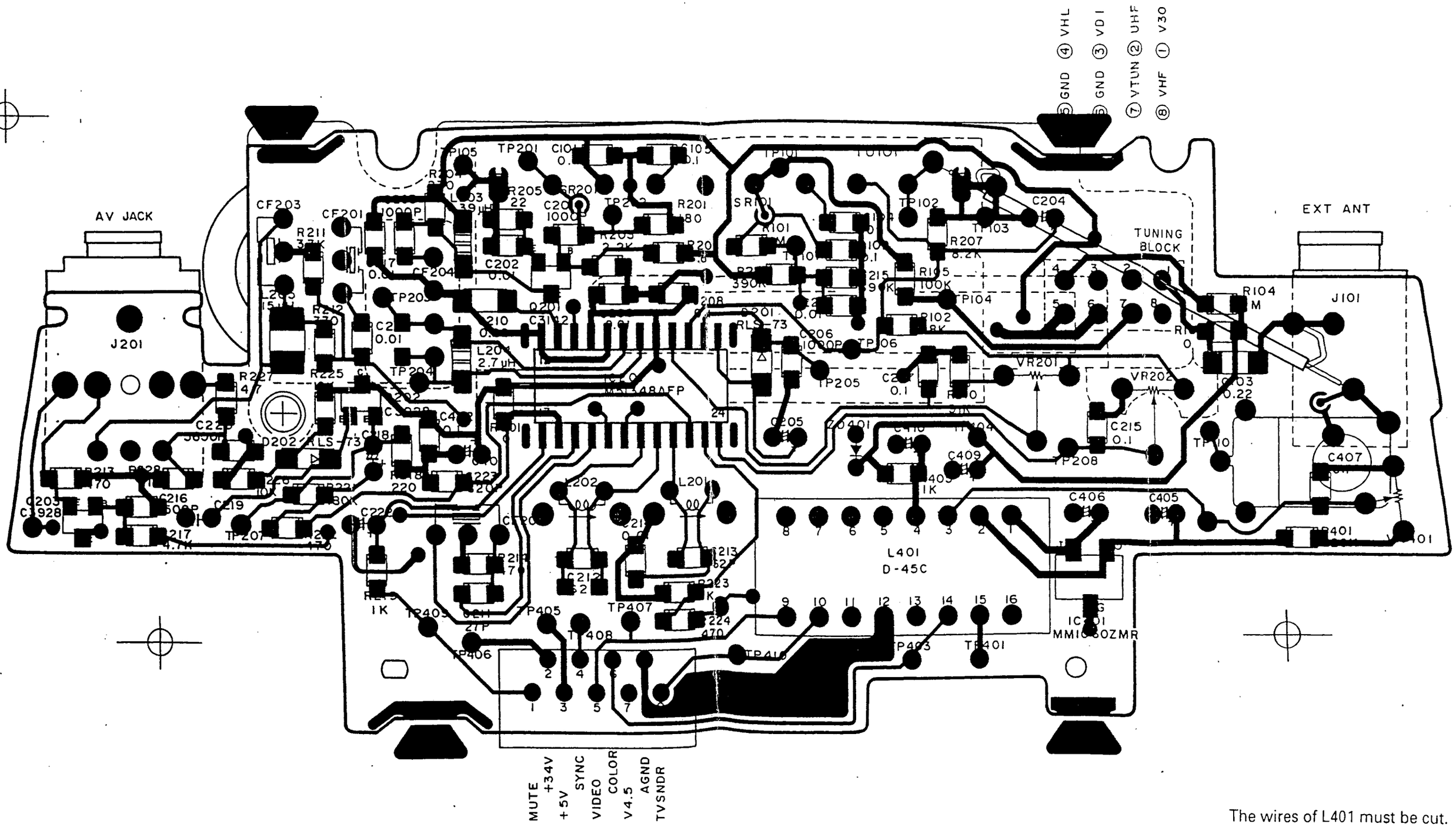


TV RECEIVER PCB ASS'Y (PCB-2)
BOTTOM VIEW



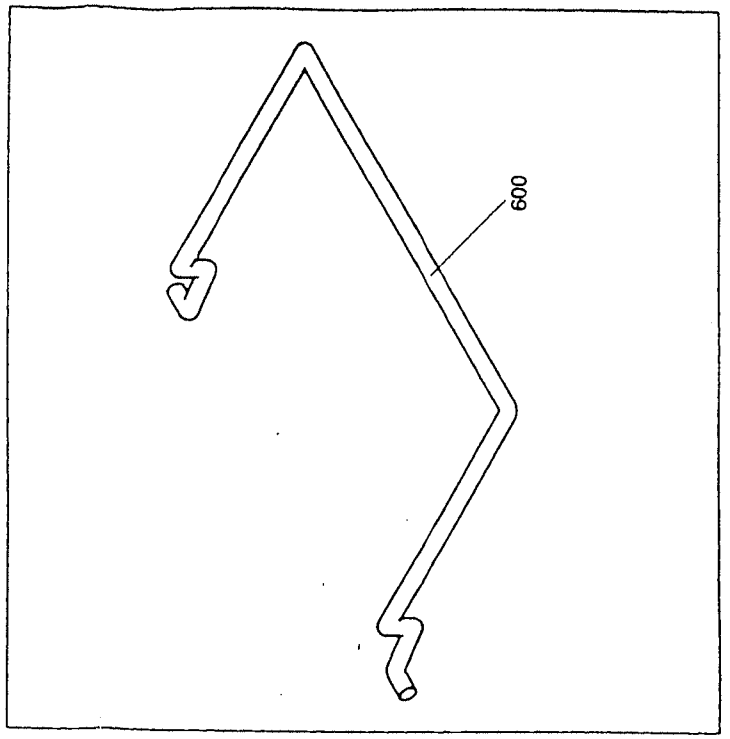
The wires of L401 must be cut.

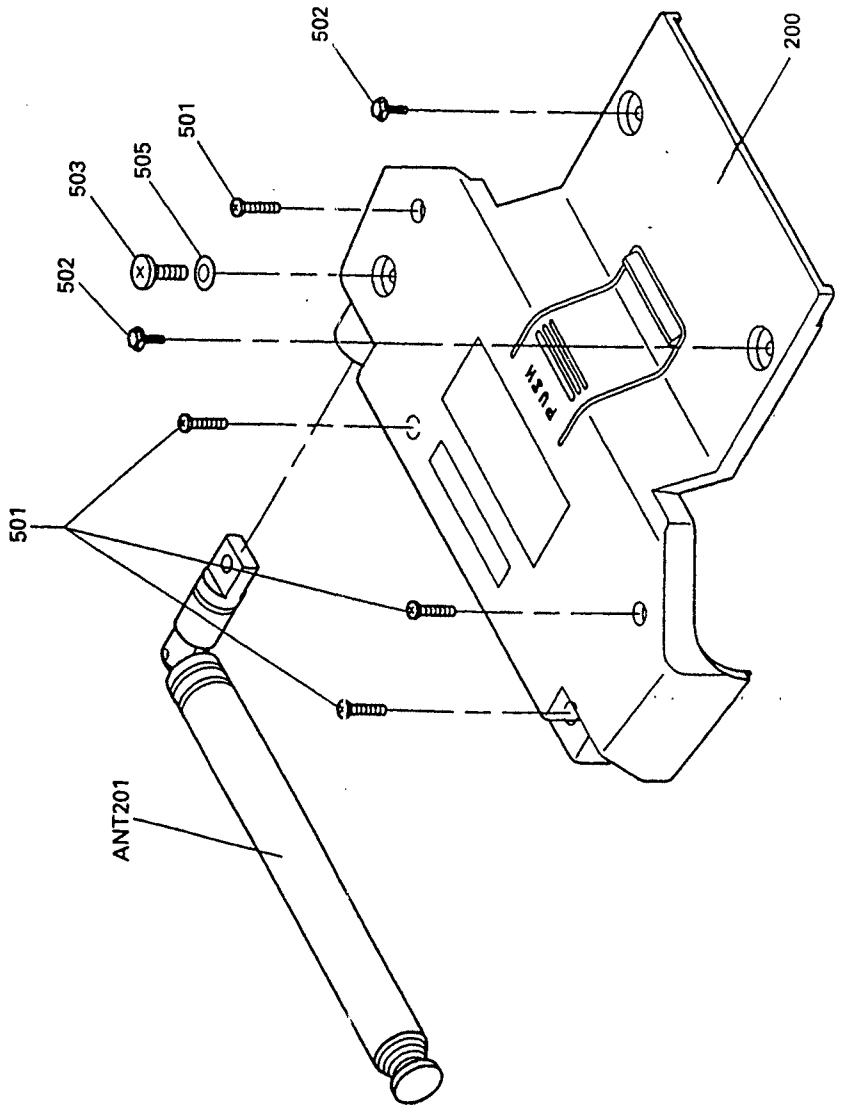
TV RECEIVER PCB ASS'Y (PCB-2)
BOTTOM VIEW

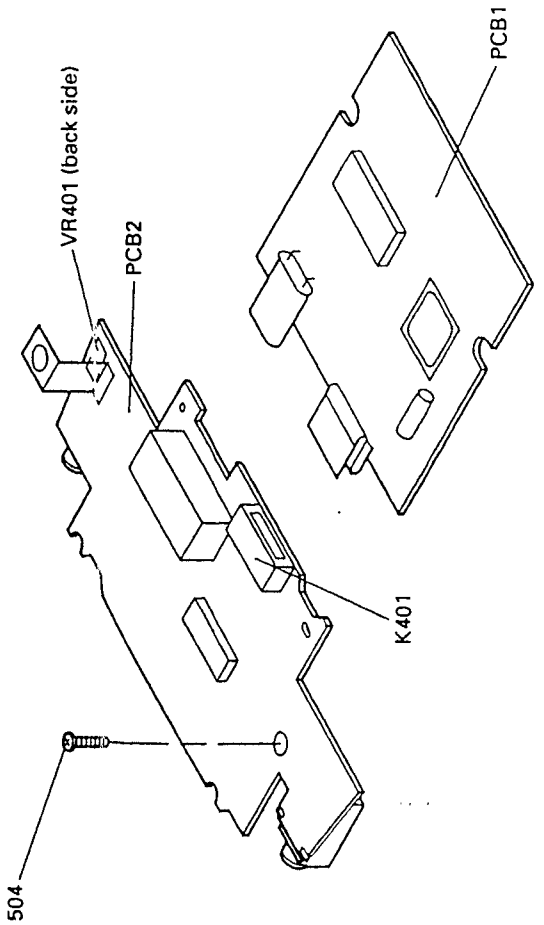


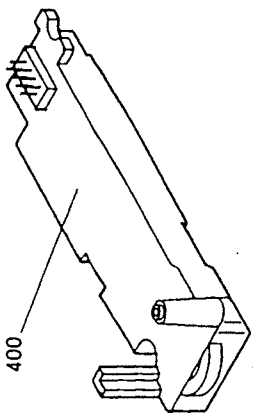
The wires of L401 must be cut.

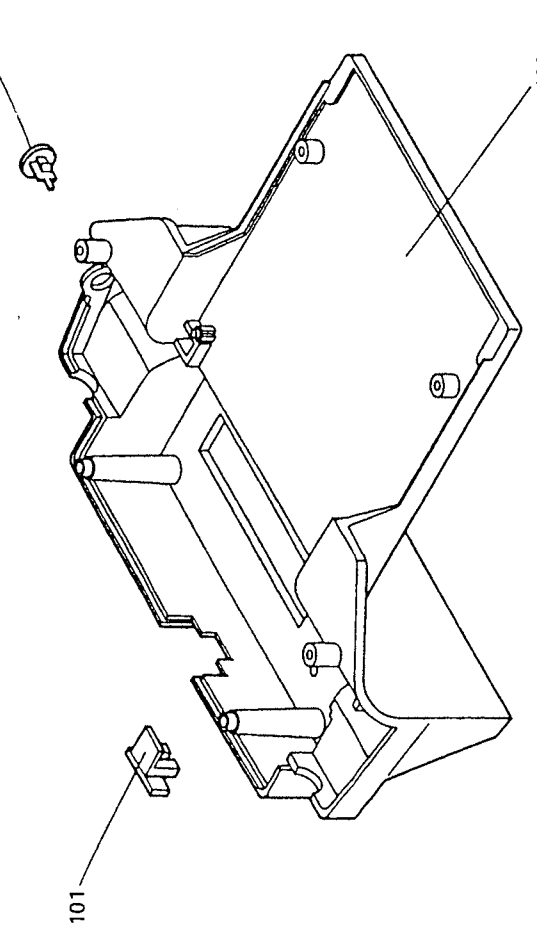
EXPLODED VIEW





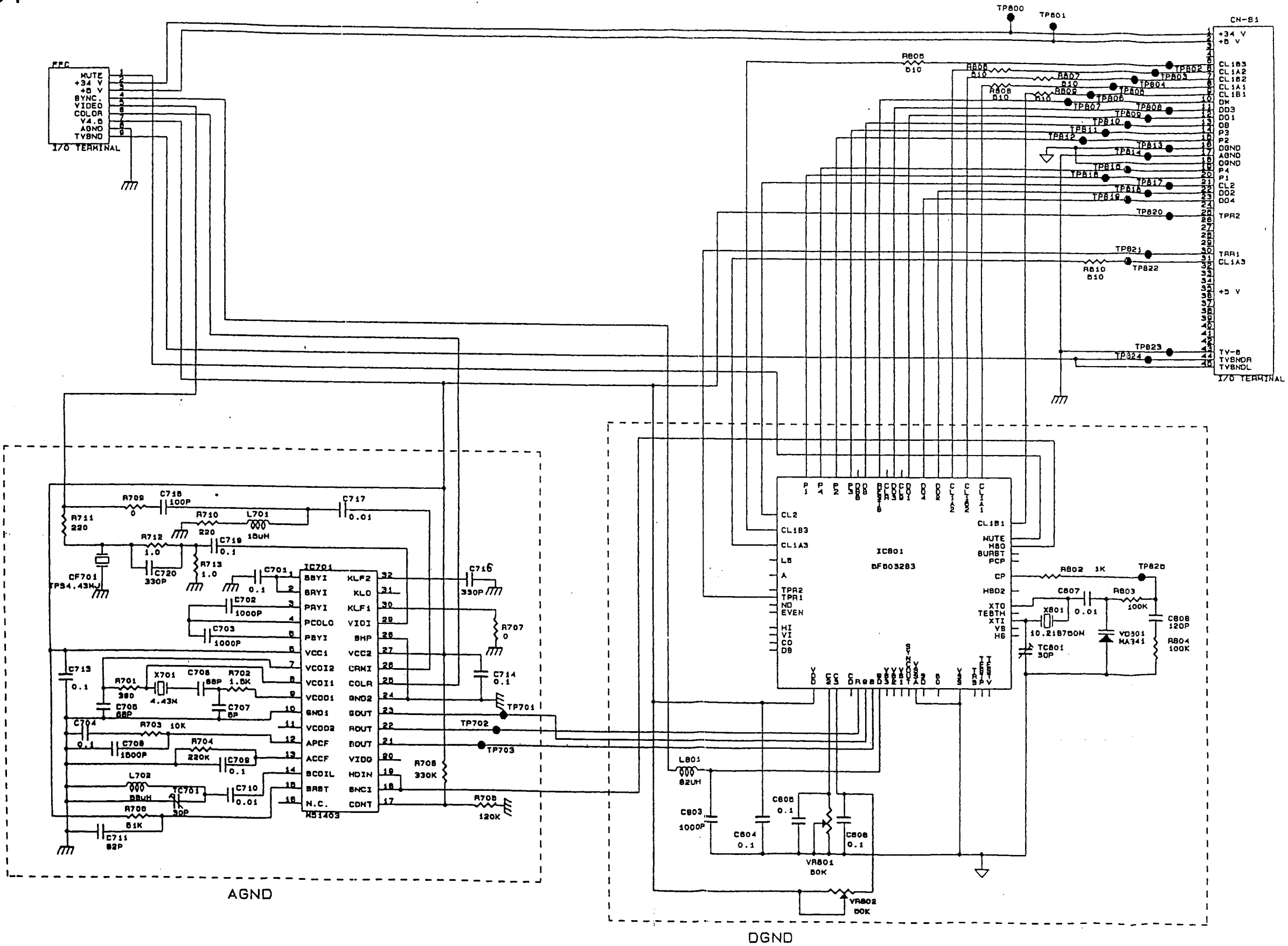






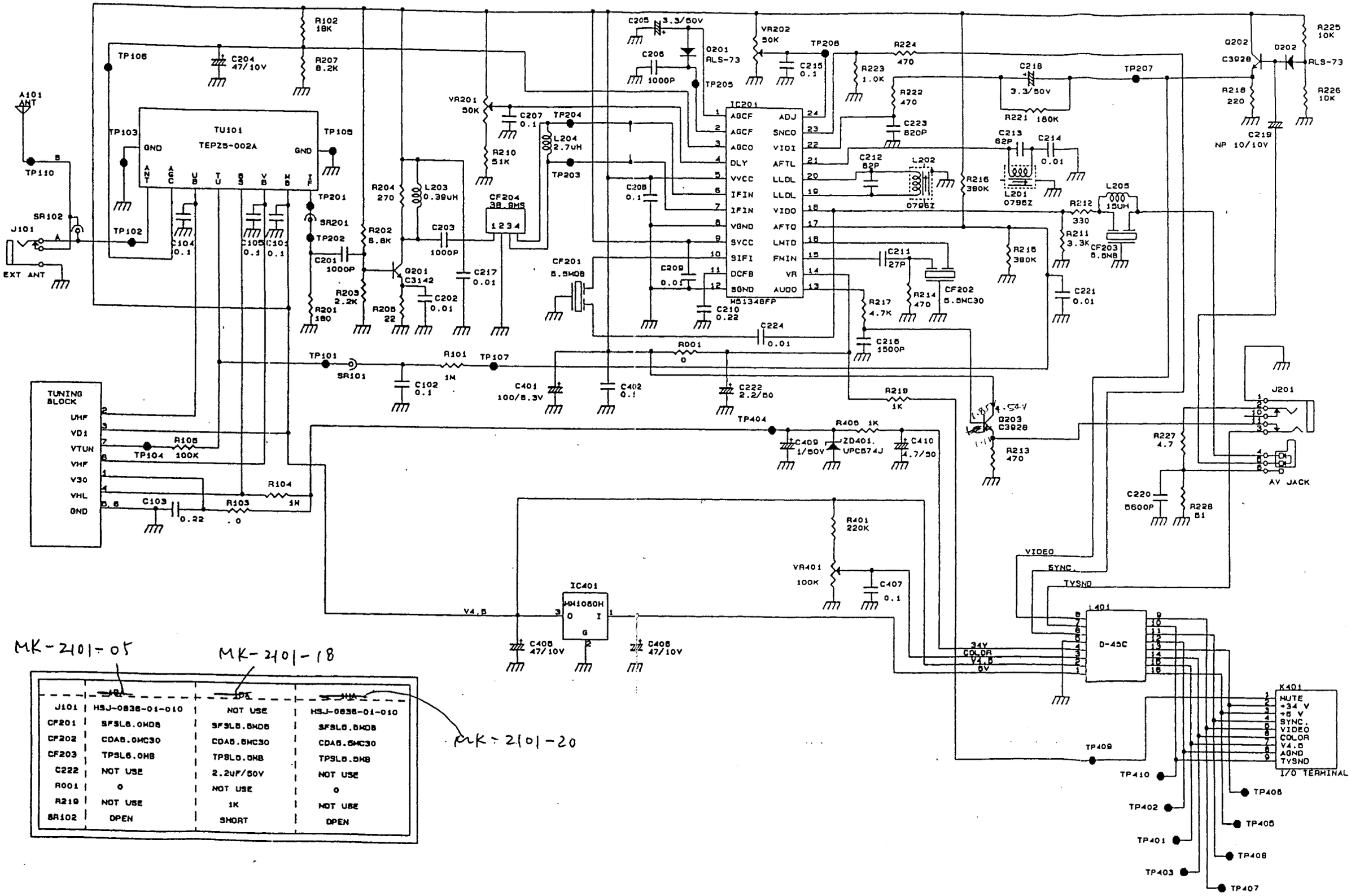
SCHEMATIC DIAGRAM

PCB-1



SCHEMATIC DIAGRAM

PCB-2



MK-2101-05

MK-2101-18

	18	05	20
J101	HSJ-0836-01-010	NOT USE	HSJ-0836-01-010
CF201	SFSL6.0MDB	SFSL6.5MDB	SFSL6.5MDB
CF202	CDA6.0MC30	CDA6.5MC30	CDA6.5MC30
CF203	TPSL6.0MB	TPSL6.5MB	TPSL6.5MB
C222	NOT USE	2.2uF/50V	NOT USE
R001	0	NOT USE	0
R219	NOT USE	1K	NOT USE
SR102	OPEN	SHORT	OPEN

MK-2101-20