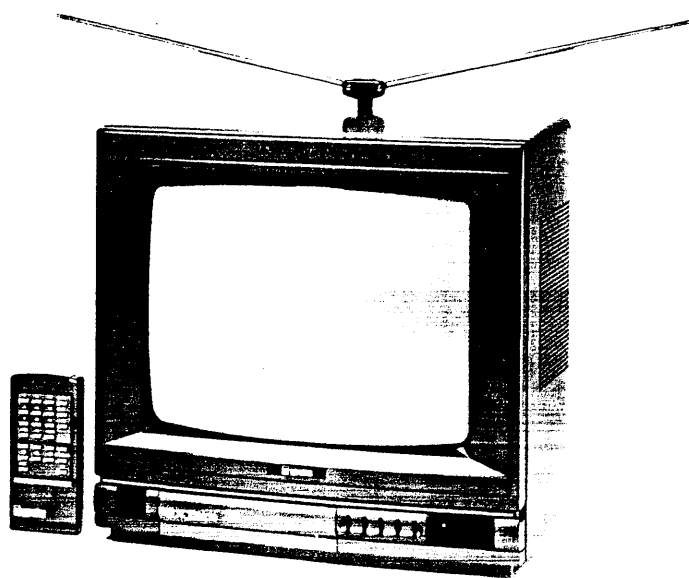


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TCT362-BK



# Service Manual

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## CAUTION

Before servicing the chassis, read the "Safety Precaution", "X-Ray Radiation Precaution" and "Product Safety Notice" on Page 2 of this manual."

## X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-Ray Radiation. To avoid such hazards, the high voltage must not be above the specified limit. The normal value of the high voltage of this receiver is 24KV at zero beam current (minimum brightness) under 220V AC power source. The high voltage must not, under any circumstances, exceed 25KV.
2. Each time a receiver requires servicing, the high voltage should be checked following the High Voltage Check procedure in this manual. It is recommended the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
3. The primary source of X-Ray Radiation in this TV Receiver is the picture tube. For continued X-Ray Radiation protection, the replacement tube must be exactly the same type tube as specified in the parts list.
4. Some parts in this receiver have special safety – related characteristics for X-Ray Radiation protection. For continued safety, parts replacement should be undertaken only after referring to the Product Safety Notice below.

## SAFETY PRECAUTION

Warning: Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver.

The following are the necessary precautions to be observed before servicing this chassis.

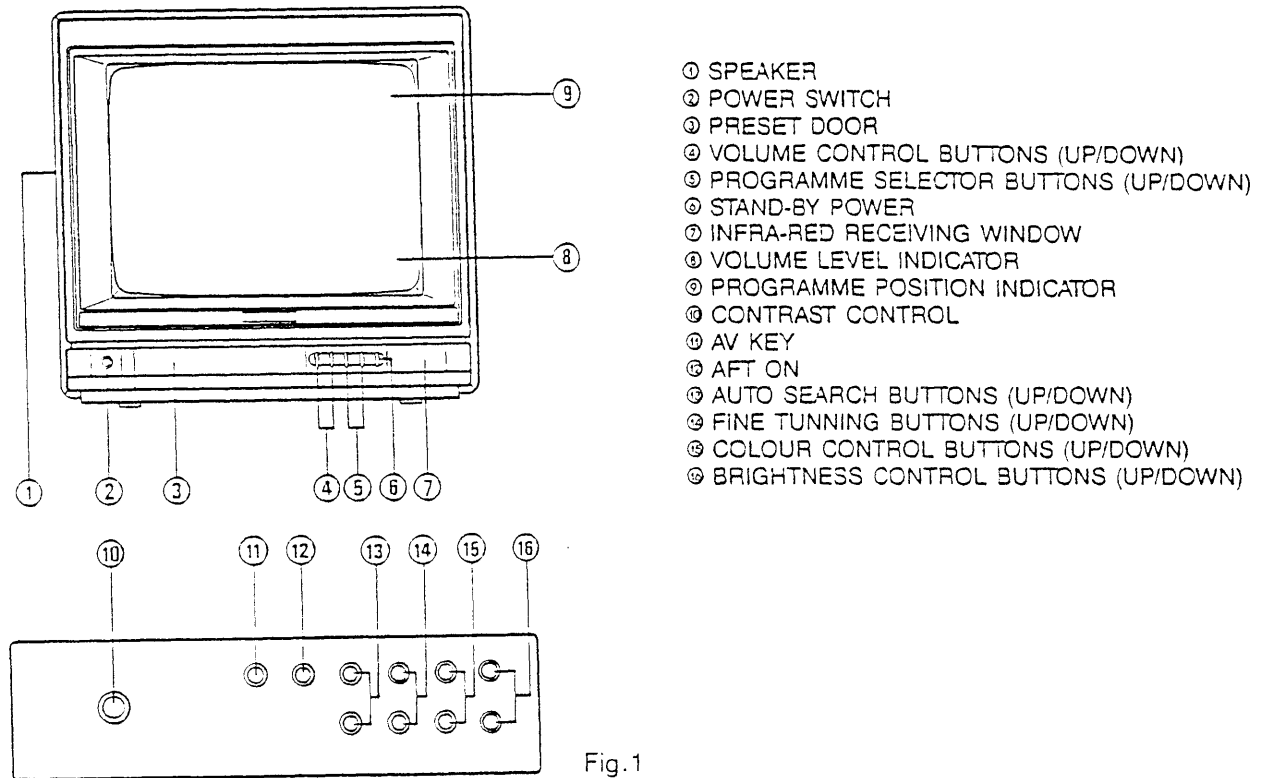
1. Since the power supply circuit of this receiver is directly connected to the AC power line, an isolation transformer should be used during any dynamic service to avoid possible shock hazard.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.
4. When replacing parts or circuit boards, disconnect the power cord.
5. When replacing a high wattage resistor (Metal oxide film resistor) on circuit board, keep the resistor 10mm (1/2 in.) away from circuit board.
6. Connection wires must be kept away from components with high voltage or high temperature.
7. If any fuse in this TV receiver is blown, replace it with the FUSE specified in the chassis parts list.
8. The receiver is designed to operate with 220V (50Hz) AC mains.

## PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-Ray Radiation protection afforded by them cannot necessarily be obtained by using replacement components rated for higher wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements, electrical components having such features are marked with "⚠" on the schematic diagram and the part list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-Ray Radiation or other hazards.

## OPERATION CONTROLS



INSIDE THE PRESET DOOR

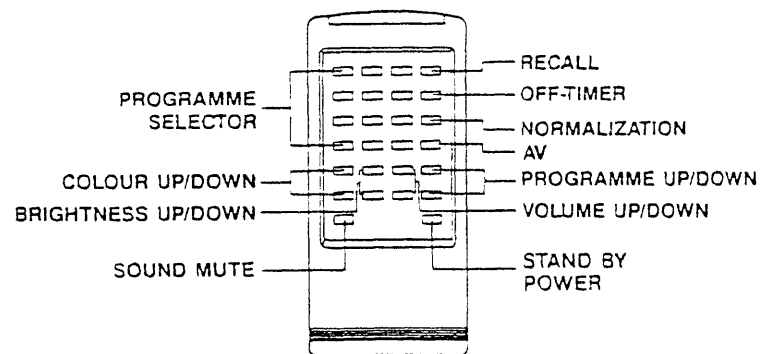


Fig. 2

## GENERAL ADJUSTMENT INSTRUCTION

This receiver is transistorized and special care should be taken when servicing. Read the following matters that demand special attention before attempting adjustment.

1. Adjustment requires an exact procedure and should be undertaken only when necessary.
2. An isolation transformer should be used during any dynamic service to avoid possible shock hazard.
3. The test equipment specified or its equivalent is required to perform the alignment properly. Use of equipment which does not meet these requirements may result in improper alignment.
4. Correct matching of the equipment is essential. Failure to use proper matching will result in responses which can not represent the true operation of the receiver.
5. The AC power line voltage should be kept 215 to 225 volts (50Hz) during alignment.
6. Do not attempt to connect or disconnect any wire while the receiver is in operation. Make sure the power cord is disconnected before replacing parts in the receiver.
7. Unless otherwise noted, do not perform any adjustment until the receiver has been turned on for at least 10 minutes.

### I. Picture And Sound I.F. Adjustment

#### Test Equipment:

1. AM/FM signal generator (4.5MHz – 6.5MHz).
2. Sweep/Marker signal generator (30 MHz – 60 MHz).
3. Sync. oscilloscope.
4. Oscilloscope (voltage sensitivity over 10mV and input impedance over 1 Mohm, below 10PF).
5. Probe (Low capacitance).
6. High impedance electronic voltmeter on VTM (Input impedance having 100K ohm/V at least).
7. DC power supply (Source such as a battery or a well regulated and isolated DC bias supply).

#### (A) 31.9MHz, 40.4MHz Traps, Picture I.F. And AFC Adjustment

##### (a) 31.9MHz, 40.4MHz Traps Alignments (This alignment for the model with FTZ Type only.)

1. Connect the signal output of sweep/marker generator to the Tp of Tuner through 1 K ohm resistor and 1000PF capacitor. (See Fig.6.).
2. Connect the external detecting circuit between the sync oscilloscope input and TP 101 (Q101 – Collector). (See Fig. 7.).
3. Apply +16.5V DC across C314 on Main Board.
4. Tune T105 for maximum attenuation of 31.9MHz as shown in Fig. 8 .
5. Tune T106 for maximum attenuation of 40.4MHz as shown in Fig. 8 .

##### (b) P.I.F. Alignment:

1. Remove the external detecting circuit from Main Board.
2. Reconnect the sync oscilloscope input with 100 ohm resistor in series to TP102
3. Apply a +8V DC dummy AGC bias to TP103 (pin 5 of IC101) through 470 ohm resistor.

**WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL**

## CABINET BACK REMOVAL

1. Disconnect the antenna leads from the antenna terminals.
2. Remove 4 screws (A) securing the Cabinet Back to the Cabinet Front.
3. Remove 2 screws (B) securing the Cabinet Back to the Jack Plate and detach the cabinet back.

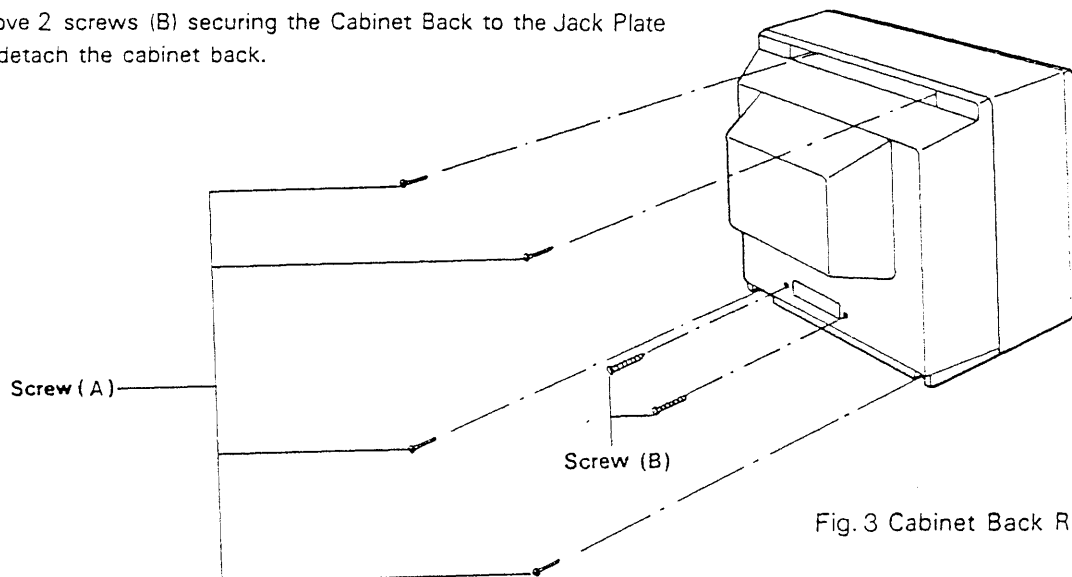


Fig. 3 Cabinet Back Removal

## CHASSIS REMOVAL

Following the steps under Cabinet Back Removal, proceed as follows:

1. Unplug the CRT grounding wire socket connected to the CRT Socket Board.
2. Detach the picture tube anode cap.

Notice: Certainly discharge the high potential of the picture tube anode to the receiver chassis before removing the anode cap.

3. Detach the CRT Socket (CRT Socket Board).
4. Take out the chassis for the front cabinet.
5. Remove 7 screws securing the Control Board to the Cabinet Front.
6. Take out the control board from the front cabinet.

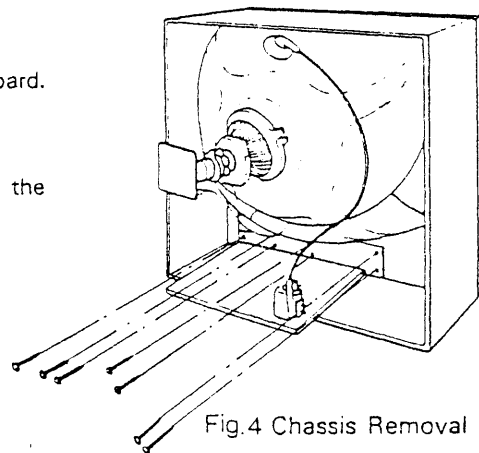


Fig. 4 Chassis Removal

## PICTURE TUBE REMOVAL

Following the steps under CHASSIS REMOVAL proceed as follows:

1. Place the cabinet with the front down on a rolled pad or some suitable cushion placed near the top edge of the front panel.
2. Remove 4 screws securing the picture tube to the cabinet, and detach the CRT with the degaussing coil, then grasp the face plate edge of the picture tube with both hands and take out the picture tube.
3. Detach the CRT grounding wire which is attached to the picture tube lugs with spring.

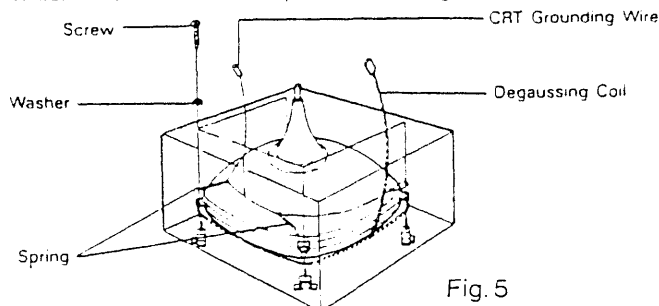


Fig. 5

## GENERAL ADJUSTMENT INSTRUCTION

This receiver is transistorized and special care should be taken when servicing. Read the following matters that demand special attention before attempting adjustment.

1. Adjustment requires an exact procedure and should be undertaken only when necessary.
2. An isolation transformer should be used during any dynamic service to avoid possible shock hazard.
3. The test equipment specified or its equivalent is required to perform the alignment properly. Use of equipment which does not meet these requirements may result in improper alignment.
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2. Sweep/Marker signal generator (30 MHz – 60 MHz).
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##### (a) 31.9MHz, 40.4MHz Traps Alignments (This alignment for the model with FTZ Type only.)

1. Connect the signal output of sweep/marker generator to the Tp of Tuner through 1 K ohm resistor and 1000PF capacitor. (See Fig.6.).
2. Connect the external detecting circuit between the syncoscilloscope input and TP 101 (Q101 – Collector). (See Fig. 7.).
3. Apply +16.5V DC across C314 on Main Board.
4. Tune T105 for maximum attenuation of 31.9MHz as shown in Fig. 8.
5. Tune T106 for maximum attenuation of 40.4MHz as shown in Fig. 8.

##### (b) P.I.F. Alignment:

1. Remove the external detecting circuit from Main Board.
2. Reconnect the sync oscilloscope input with 100 ohm resistor in series to TP102
3. Apply a +8V DC dummy AGC bias to TP103 (pin 5 of IC101) through 470 ohm resistor.

4. Apply a +3V DC to TP104 (pin 3 of IC405) and TP105 (pin 4 of IC405), through 100 ohm.
5. Tune T102 for maximum gain of 38.9MHz as shown in Fig. 9.
6. Tune T101 for maximum gain of 34.47MHz as shown in Fig. 9.

(c) AFC Alignment

1. Reconnect the sync oscilloscope input with 1M ohm resistor in series to TP106 (pin 14 of IC101).
2. Adjust T103 for the marker (38.9MHz) of AFC wave form at position. (See Fig.10.) the centre.

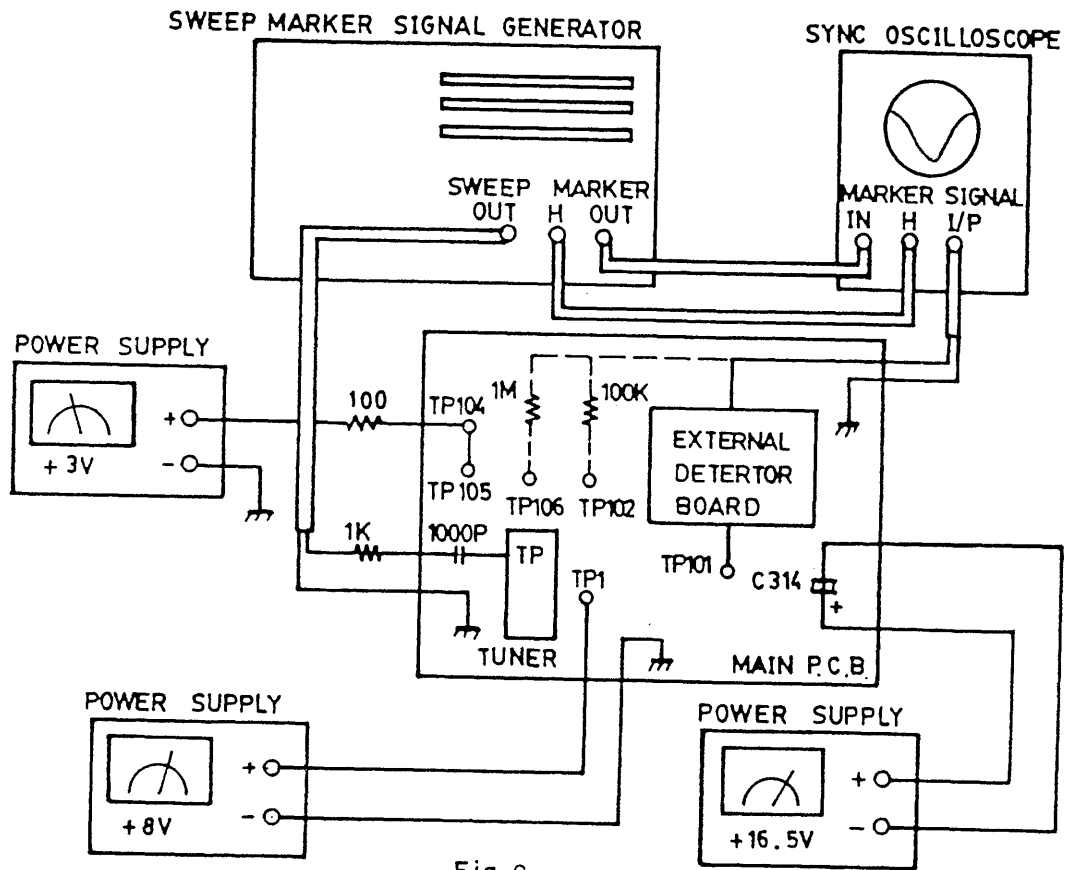


Fig. 6

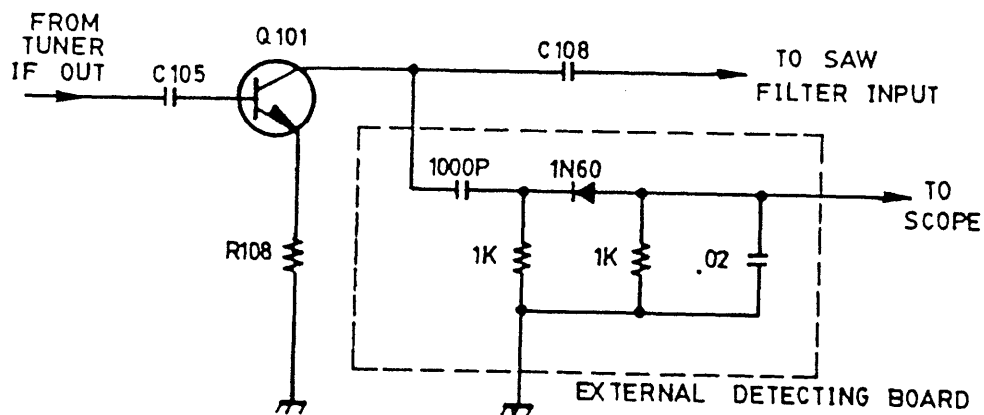


Fig. 7



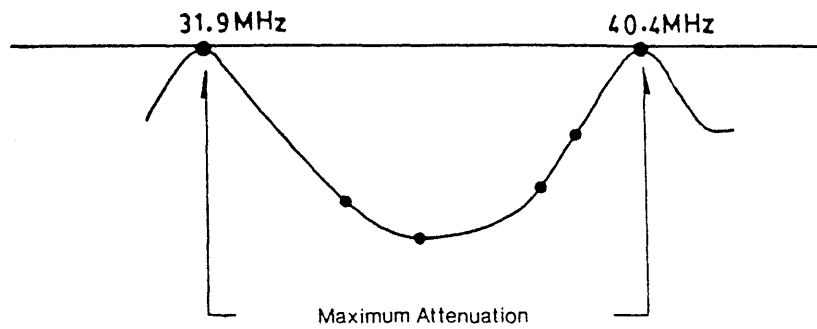
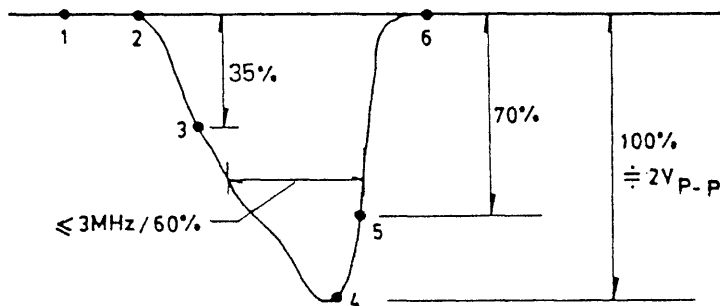


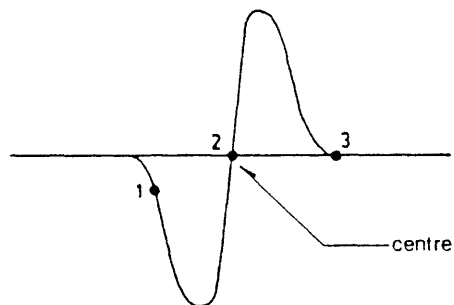
Fig. 8. 31.9, 40.4MHz Traps Response Curve



P.I.F. RESPONSE:

No	Marker of B/G
1	31.9 MHz
2	33.4 MHz
3	34.47 MHz
4	37.9 MHz
5	38.9 MHz
6	40.4 MHz

Fig. 9. P.I.F. Response Curve



AFC Response

No	Marker of B/G
1	37.9 MHz (+)
2	38.9 MHz (0)
3	40.4 MHz (-)

Fig. 10. AFC Response Curve.

#### (B) S.I.F. Alignment

1. The signal from AM/FM signal generator which is set at 5.5MHz with AF400Hz, 30% FM modulation, is applied to TP107 (between C127 and C128) through a 1K ohm resistor and a 1000pf capacitor as shown in Fig. 11.
2. Short TP103 (pin 5 of IC101) to ground.
3. Connect the oscilloscope input to TP109 (pin 23 of IC101)
4. Apply a +16.5V DC across C314 (TP108).
5. Adjust T104 for the marker (5.5MHz & 6.5MHz) of SIF waveform at the centre position Fig. 12

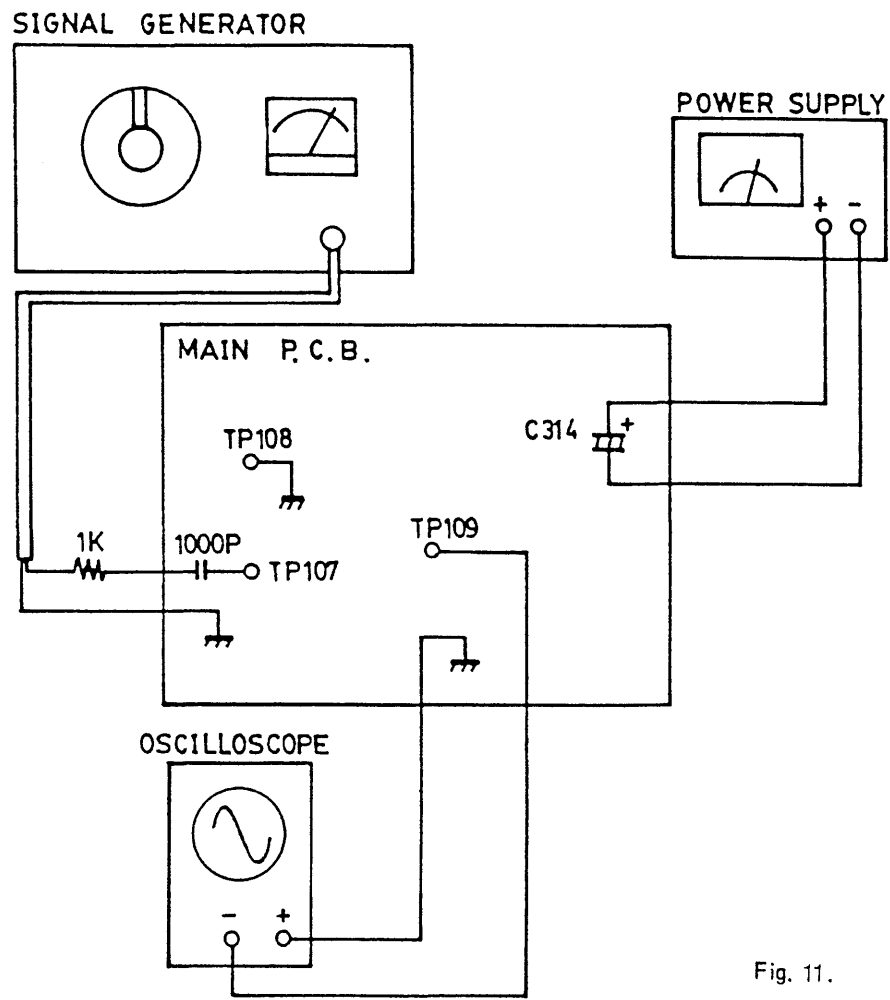


Fig. 11.

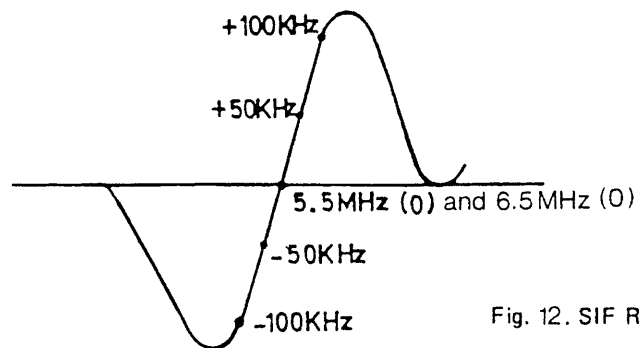


Fig. 12. SIF Response Curve

## **II. General Adjustment**

### **1. Automatic Degaussing**

An automatic degaussing coil is attached around the picture tube, degaussing the tube properly in about one second after the set is switched on. If the receiver is moved or faced in a different direction, the power must be switched off at least 15 minutes in order that the automatic degaussing circuit operates properly. External degaussing is necessary if the automatic degaussing proves ineffective after the set is moved. External degaussing is done by moving a degaussing coil circlewise in front of the face plate and then switch off the degaussing coil. If residual colour spots are still found on the screen, adjust the color purity and convergence.

### **2. B +(110V) Adjustment**

**CAUTION:** To avoid X-Ray hazards, B+ voltage must be set correctly at 110V position.

- (a) Make sure the AC Power supply is 220V, 50Hz.
- (b) Switch on the TV Receiver, tune in an active channel and adjust Brightness/Contrast for maximum.
- (c) Connect TP601 (Q606 – Emitter) on the Main PCB to a reliable DC voltmeter.
- (d) Adjust VR601 on Main PCB for B +110V voltage reading.

### **3. High Voltage Check**

**CAUTION:** There is no high voltage adjustment in this chassis, B+ 110V voltage directly relates to the high voltage, it must be properly adjusted to insure the correct high voltage. The high voltage must not exceed 25KV under any conditions.

- (a) Connect an accurate high voltage meter to the second anode cap of the picture tube.
- (b) Turn on the receiver, set Brightness the Contrast controls to minimum. (Zerobeam current)
- (c) Make sure the high voltage does not exceed 24KV.
- (d) No matter whether the luminance, contrast and chrominance controls are set to maximum or minimum, the high voltage must be kept under 25KV.

### **4. Focusing Adjustment**

- (a) Receive the philips pattern signal
- (b) Set the contrast control to the maximum position.
- (c) Adjust fours control of flyback tranformer for a well-defined, sharpest display in the centre of the screen.

### **5. Height Adjustment**

- (a) Receive the philips pattern signal.
- (b) Adjust the height control (VR205) to slightly overscan the screen.

## 6. Horizontal Position

- (a) Receive the philips pattern.
- (b) Adjust horizontal hold control (VR203) to the centre

## 7. Vertical Hold Adjustment

- (a) Receive the philips pattern.
- (b) Short TP201 (pin 37 of IC201) to GND by jumper wire.
- (c) Connect a frequency counter to TP202 (between C306 and C307).
- (d) Adjust Vertical Hold control (VR204) for 45Hz to 46Hz reading.

## 8. Colour Syne Adjustment

- (a) Tune in a colour bar signal.
- (b) Set the colour control to maximum.
- (c) Cut off the colour killer by connection the TP203 (pin 2 of IC201) and TP204 (pin 12 of IC201) with 10K ohm resistor.
- (d) Short TP205 (L206) to GND by jumper wire.
- (e) Adjust the colour sync variable capacitor (C242) for the colour bar pattern stand still or drifts slowly across the picture screen.

## 9. PAL Matrix Adjustment

- (a) Tune in a colour bar signal
- (b) Use oscilloscope with 2 channels input and set to "X – Y" mode.
- (c) Channel 1 (x) is connected to TP206 (pin 21 of IC201) (R – Y)
- (d) Channel 2 (Y) is connected to TP207 (pin 22 of IC201) (B – Y)
- (e) Adjust amplitude balance VR202 until the centre points of the two wave forms bring together (Fig.13)
- (f) Adjust T205 until all other points of two waveforms bring together (Fig.13)
- (g) Adjust T206 to obtain the maximum hexagon.

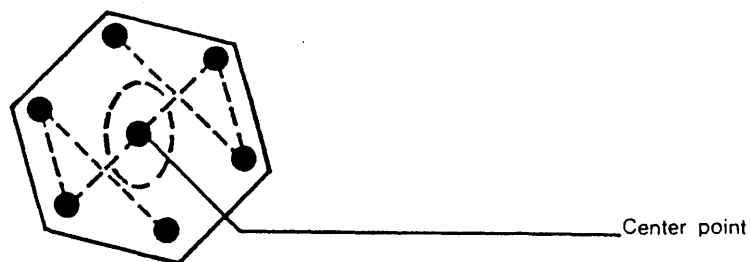


Fig. 13 Matrix Vector Diagram.

#### 10. Delay AGC Adjustment

- (a) Tune in the colour bar pattern signal
- (b) Set input signal level at 60 dB
- (c) Connect a high impedance DC Voltmeter to tuner AGC terminal.
- (d) Adjust RF AGC control (VR101) for 6.5V +0.2V reading.
- (e) Increase input signal level to 100 dB.
- (f) Check for normal picture, sound and sync.

#### 11. White Balance Adjustment

- (a) Receive a monochrome signal and warm up the set for 15 minutes.
- (b) Set the R.G.B. cut-off (VR501, VR503, VR505) at the centre position.
- (c) Rotate the G.B. drive controls (VR502, VR504) fully counter-clockwise first, then clockwise rotate back to 1/3 position.
- (d) Turn the screen control to minimum position.
- (e) Disconnect the Y signal output terminal connector.
- (f) Short TP202 (between C306 and C307) to GND by jumper wire.
- (g) Rotate the screen control gradually clockwise until the first horizontal line appears on the screen.
- (h) If the first horizontal line is in red, adjust VR503, VR504 to increase the green and blue component level to get a white horizontal line.
- (i) Remove the Jumper wire, connect back the Y signal output terminal and switch back to TV.
- (j) Receive the philips pattern signal and set the contrast colour control to minimum and brightness control to maximum.
- (k) Adjust VR502, VR504 to maintain a good white balance at the brightest part of screen.

#### 12. On-Screen Position Adjustment

- (a) Select the position "29" by the programme button (+ or -).
- (b) Tune in the philips pattern signal.
- (c) Press the "Recall" button once, the large character size of programme No. will be changed to small size for approx. 3 seconds.
- (d) Adjust C413 for the programme No "29" (small size) position as shown in Fig. 14

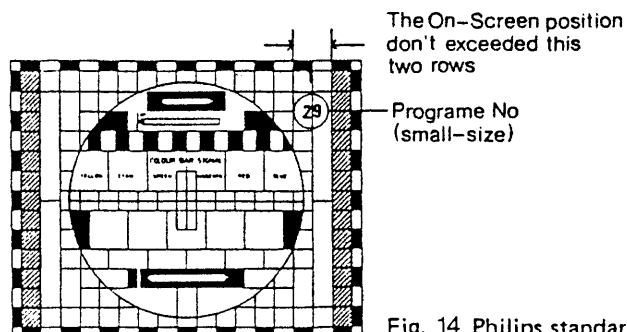


Fig. 14 Philips standard colour pattern

### 13. Sub-Brightness Adjustment

- (a) Receive the philips pattern signal.
- (b) Set the contrast, Brightness and colour controls to minimum position.
- (c) Adjust sub-brightness (VR404) until light just appears on the screen.

### 14. Sub-Colour Adjustment:

- (a) Receive the philips pattern signal.
- (b) Set the contrast to maximum. Press the normalization button on Remote Control Unit.
- (c) Adjust Sub-Colour Control (VR405) to optimize the natural colour intensity.

## III. Color Purity And Convergence Adjustment

### 1. Color Purity Adjustment

NOTE: Before attempting any purity adjustments, the receiver should be operated for at least fifteen minutes.

- (a) Demagnetize the picture tube and cabinet using a degaussing coil.
- (b) Turn the Contrast and Brightness controls to maximum.
- (c) Adjust Red and Blue controls (VR501) and (VR505); to provide only a green raster. Advance the Green Bias control (VR502) if necessary.
- (d) Loosen the clamp screw holding the yoke backward to provide vertical green belt (Zone) in the picture screen.
- (e) Remove the Rubber Wedges.
- (f) Rotate and spread the tabs of the purity magnet (see Fig. 16 ) around the neck of the picture tube until the green belt is in centre of the screen. At the same time, centre the raster vertically.
- (g) Move the yoke slowly forward or backward until a uniform green screen is obtained. Tighten the clamp screw of the yoke temporarily.
- (h) Check the purity of the red and blue raster by adjusting the Bias controls.
- (i) Obtain a white raster, referring to white balance adjustment.
- (j) Proceed with convergence adjustment.

### 2. Convergence Magnet Assembly Positioning

Convergence Magnet Assembly and Rubber Wedges need mechanical positioning following Fig. 15.

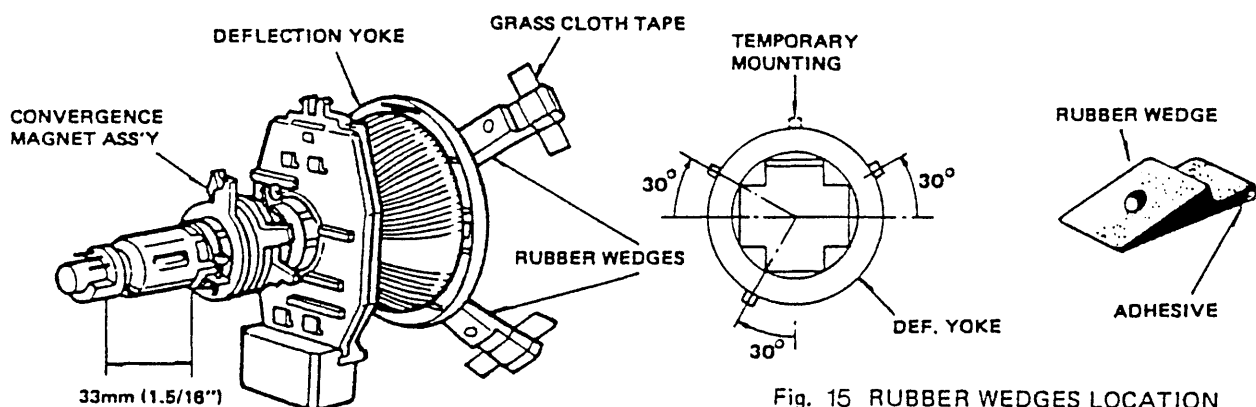


Fig. 15 RUBBER WEDGES LOCATION

### 3. Centre Convergence Adjustment

NOTE: Before attempting any convergence adjustments, the receiver should be operated for at least fifteen minutes.

- (a) Receive crosshatch pattern with a color bar signal generator.
- (b) Adjust the Brightness and Contrast controls for well defined pattern.

- (c) Adjust two tabs of the 4 Pole Magnets to change the angle between them (see Fig. 16.) and superimpose red and blue vertical lines in the centre area of the picture screen. (See Fig. 17.)
- (d) Turn both tabs of the 4 Pole Magnets to change the angle to superimpose red and blue horizontal lines at the centre of screen (See Fig. 16.)
- (f) Repeat adjustments 3, 4, 5, keeping in mind red, green and blue movement, because 4 Pole Magnets and 6 Pole Magnets interact and make dot movement complex.

#### 4. Circumference Convergence Adjustment

NOTE: This adjustment requires Rubber Wedges and Glass Cloth Tapes.

- (a) Loosen the clamping screws of deflection yoke to allow the yoke to tilt.
- (b) Place a wedge as shown in Figure 6 temporarily. (Do not remove cover paper on adhesive part of the wedge).
- (c) Tilt front of the deflection yoke up or down to obtain better convergence in circumference. (See Fig. 17.) Push the mounted wedge into the space between picture tube and the yoke to hold the yoke temporarily.
- (d) Place other wedge into bottom space and remove the cover paper to stick.
- (e) Tilt front of the yoke right or left obtain better convergence in circumference. (See Fig. 17.)
- (f) Hold the yoke position and put another wedge in either upper space. Remove cover paper and stick the wedge on picture tube to hold the yoke.
- (g) Detach the temporarily mounted wedge and put it in another upper space. Stick it on picture tube to fix the yoke.
- (h) After placing three wedges, recheck over all convergence. Tighten the screw firmly to hold the yoke tightly in place.
- (i) Stick 3 glass cloth tapes on wedges as shown in Figure 15.

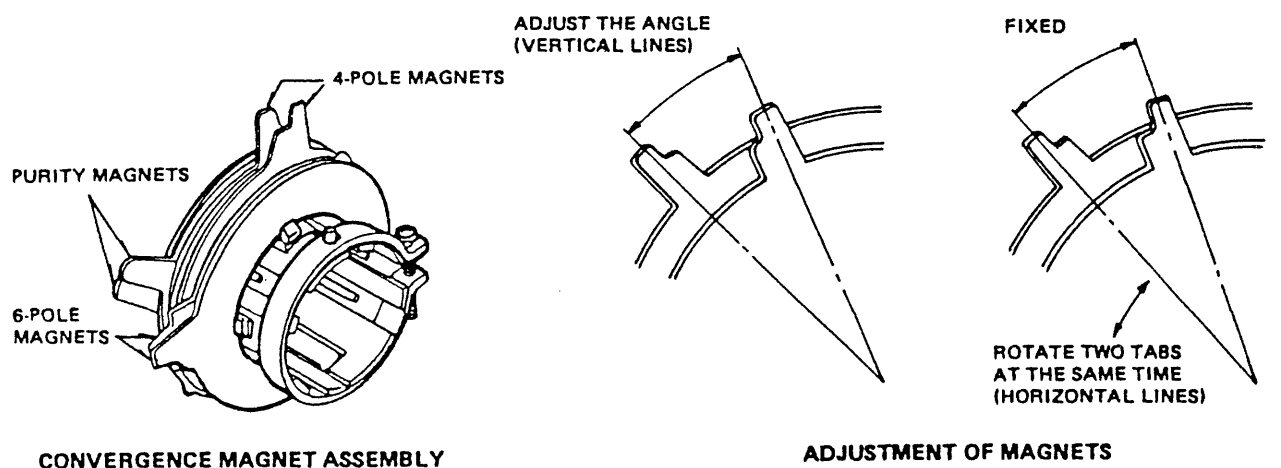


Fig. 16.

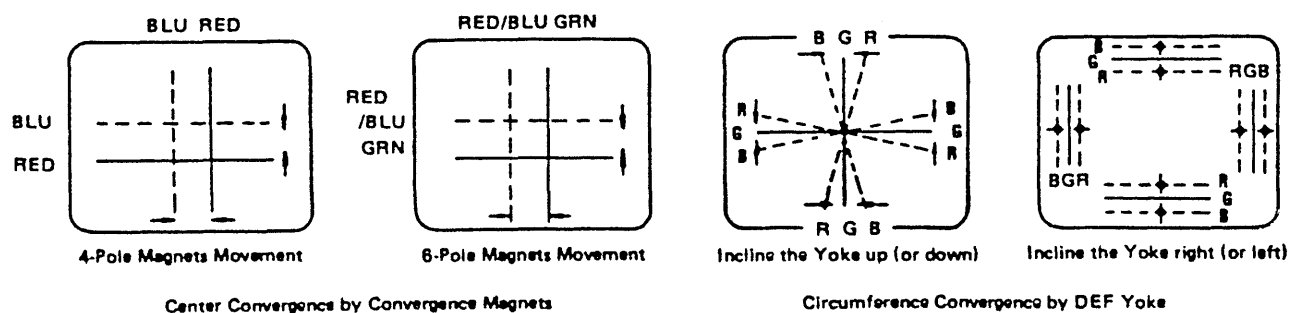
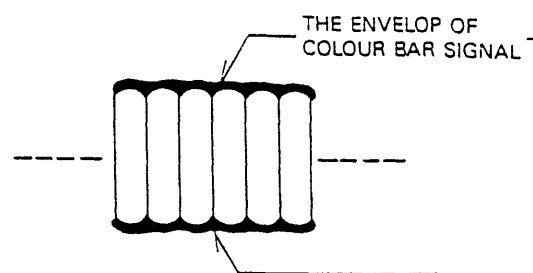


Fig. 17. Dot Movement Pattern

#### IV. Colour Decoder Adjustment For SECAM System

##### 1. Bell Filter Adjustment

- Apply a SECAM colour bar signal (60dB level) to the input.
- Connect an oscilloscope to Pin 27 of IC201.
- Adjust T203 to make the envelop of colour bar signal into flat. (Fig. 18 )



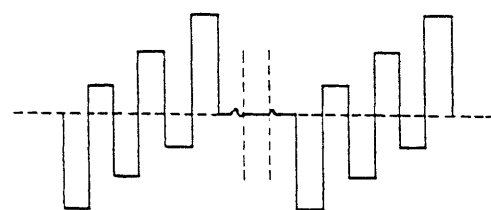
SECAM COLOUR BAR SIGNAL Fig. 18.

##### 2. Identifier Adjustment

- Apply a SECAM colour bar signal (60dB level) to the input.
- Connect a high impedance DC Voltmeter to Pin 26 of IC201.
- Adjust T204 to the indent filter voltage into maximum value ( $\sim 10V$ ).

##### 3. B-Y Demodulation

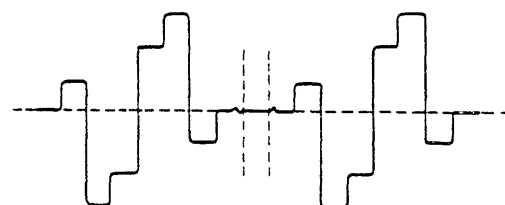
- Apply a SECAM colour bar signal to the input.
- Set Brightness, Contrast and Colour controls to the maximum.
- Connect an oscilloscope to Pin 2 of socket H.
- Adjust T201 to obtain a B-Y signal with correct chrominance output, as shown in Fig. 19.



B-Y SIGNAL Fig. 19.

##### 4. R-Y Demodulation

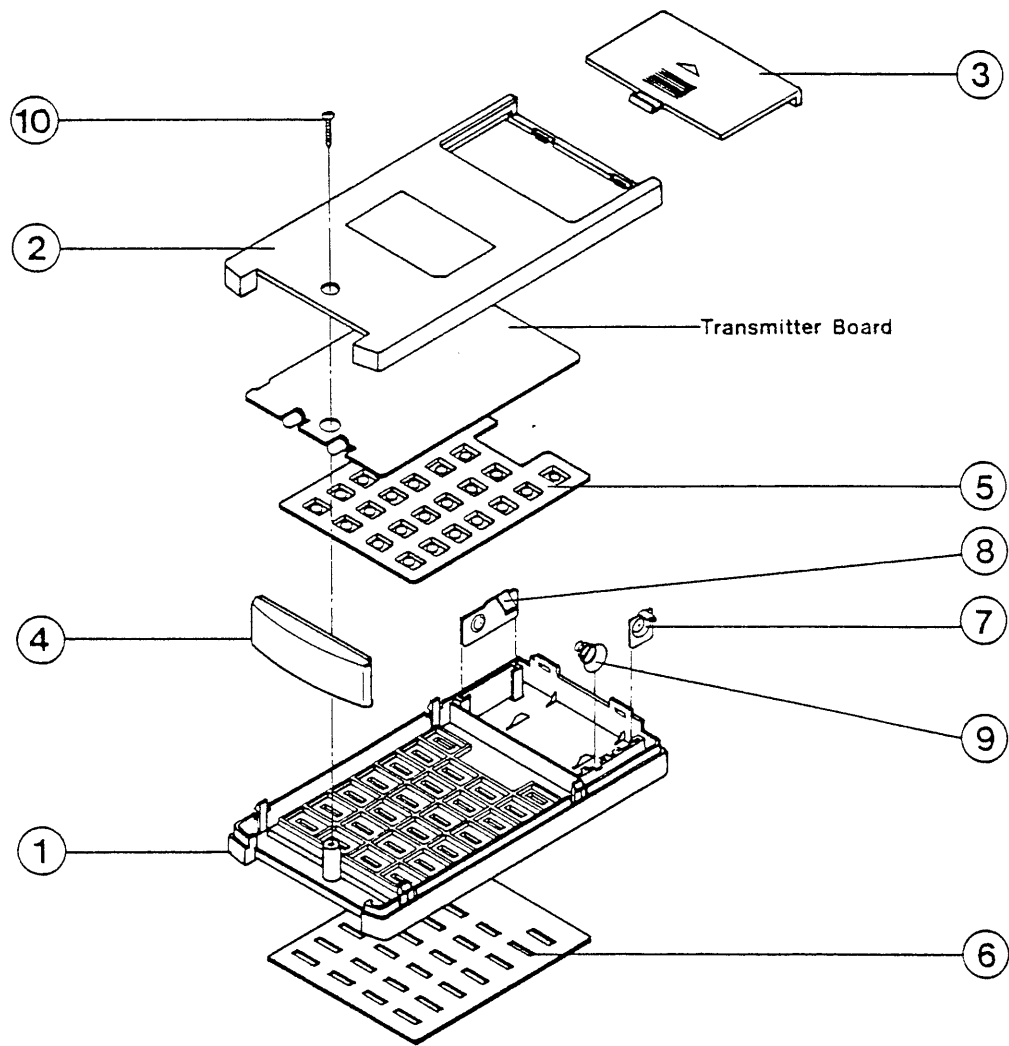
- Apply a SECAM colour bar signal.
- Set Brightness, Contrast and Colour controls to maximum.
- Connect an oscilloscope to Pin 3 of socket H.
- Adjust T202 to obtain an R-Y signal with correct chrominance output, as shown in Fig. 20.



R-Y SIGNAL Fig. 20.



REMOTE CONTROL UNIT

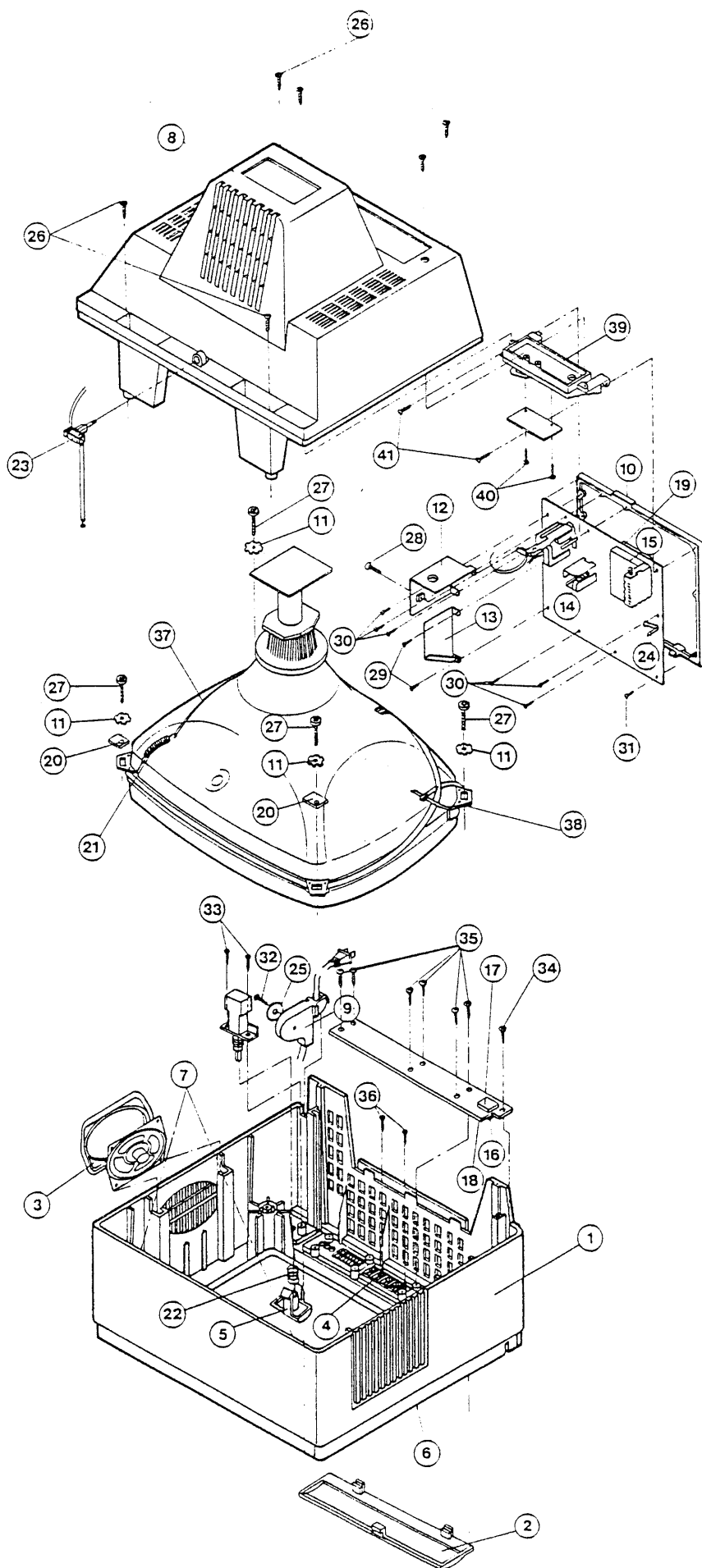


MECHANICAL PART LIST

ITEM	PART NO.	DESCRIPTION
1.	A01-A0078-01	Top Cabinet
2.	A01-A0079-01	Bottom Cabinet
3.	A01-A0080-00	Battery Door
4.	A01-A0081-00	Infrared Lens
5.	D01-A0020-00	Rubber Contact Plate

ITEM	PART NO.	DESCRIPTION
6.	D00-A0049-00	Handset Inlay
7.	B00-A0025-00	Battery Contact Plate (+)
8.	B00-A0024-00	Battery Contact Plate (+/-)
9.	E00-A0009-00	Battery Contact Spring (-)
10.	M3P-T2601-08	Screw T2.6x8 P/H (+)

# EXPLODED VIEW OF MAIN UNIT

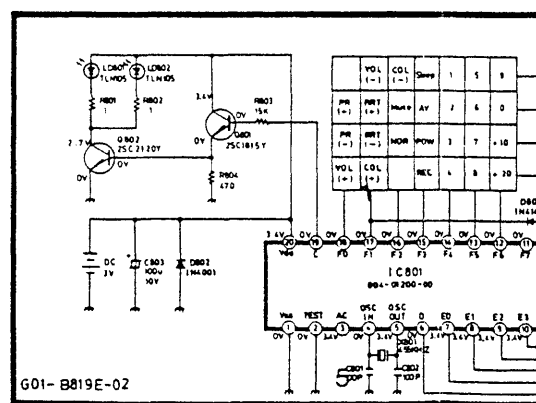
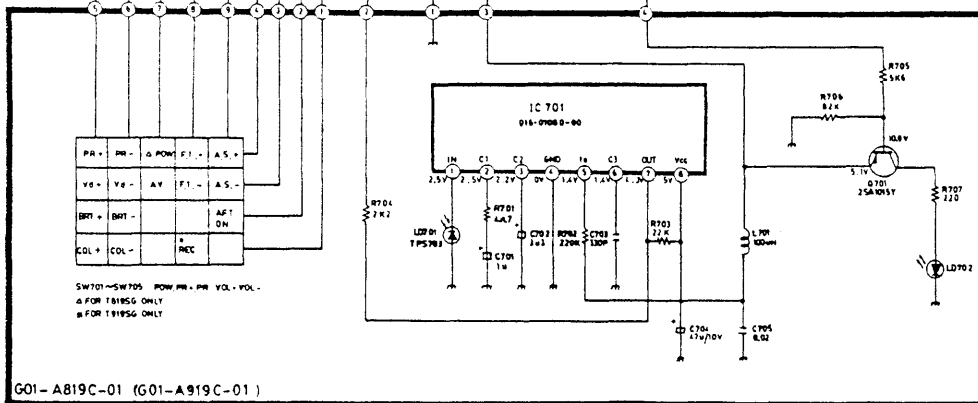
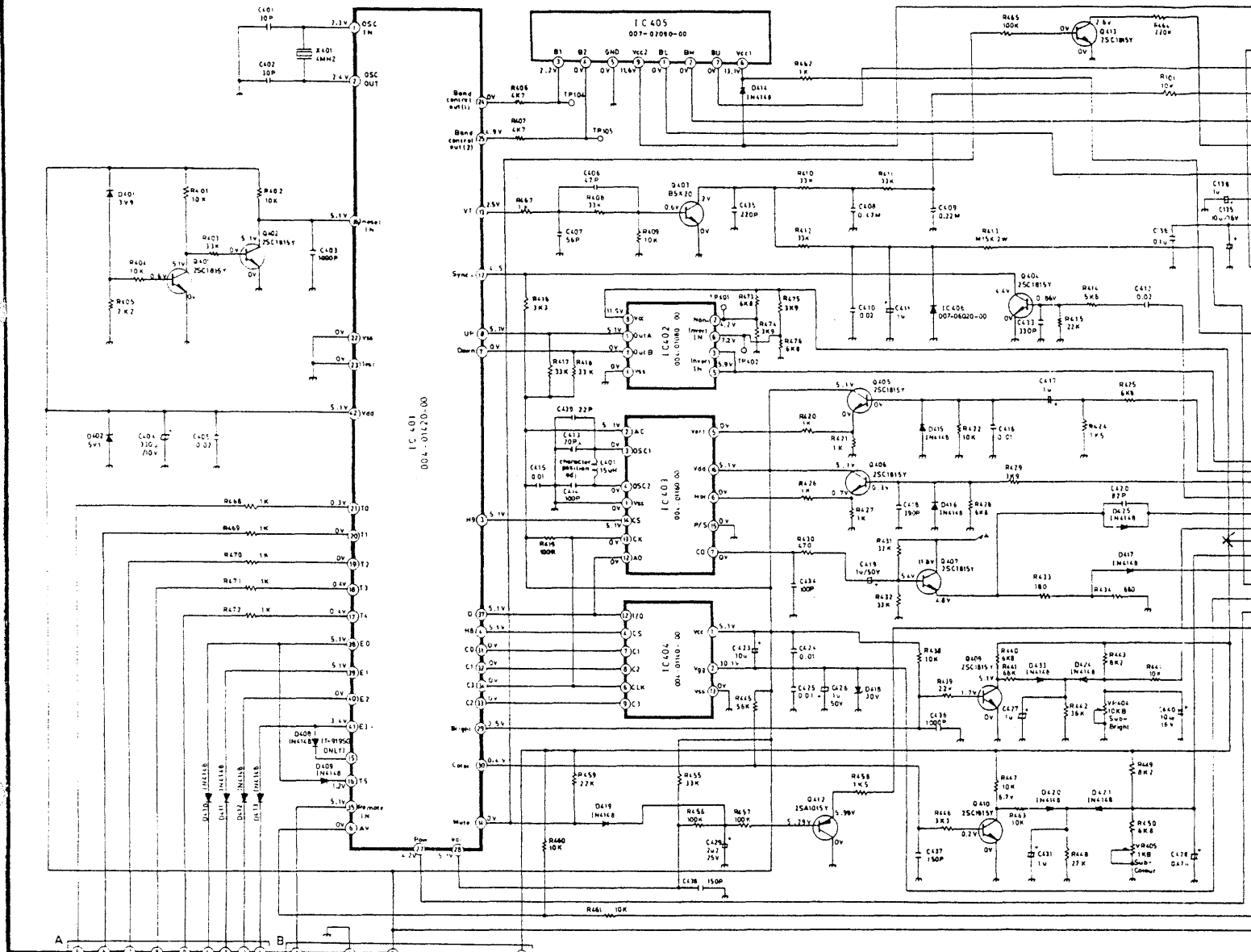
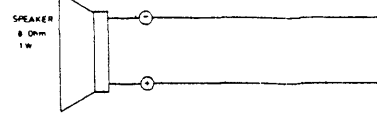


# MECHANICAL PARTS LIST FOR MAIN UNIT

ITEM	PART NO.	DESCRIPTION
1	A01-A0088-01	FRONT CABINET-METALLIC DARK GRAY SPRAY W/SILK SCREEN
2	A01-A0089-01	PRESET DOOR-METALLIC DARK GRAY SPRAY W/SILK SCREEN
3	A01-A0090-00	SPEAKER HOLDER-BLACK MOULDED
4	A01-A0091-00	PUSH BUTTON-BLACK MOULDED
5	A01-A0092-00	POWER SW. KNOB-BLACK MOULDED
6	A01-A0093-00	INFRARED LENS
7	A01-A0094-00	CABINET MTG. HOLDER-BLACK MOULDED
8	A01-A0134-00	BACK CABINET-BLACK MOULDED
9	A01-A0009-00	AC CORD HOLDER-BLACK MOULDED
10	A03-B0111-00	CHASSIS BRACKET-BLACK MOULDED
11	B01-A0001-01	METAL WASHER
12	B01-A0005-00	HEAT SINK BRACKET FOR POWER
13	B01-A0006-00	HEAT SINK FOR HORIZONTAL AMP.
14	B01-A0007-00	HEAT SINK TRANSISTOR
15	B01-A0008-00	PIF SHIELDING COVER
16	B00-A0027-00	SHIELD CAN 'A'
17	B00-A0028-00	SHIELD CAN 'B'
18	B00-A0029-00	SHIELD CAN 'C'
19	B00-A0041-00	SHIELD CAN
20	B00-A0052-00	METAL FIXER (FOR CRT FIXING)
21	E00-A0001-00	GROUNDING WIRE SPRING DIA. 7 X 14 FOR TWISTED WIRE
22	E00-A0011-00	POWER KNOB SPRING
23	F00-A0004-00	INDOOR ANTENNA-SINGLE TYPE (VHF) DIA. 8 X 200
24	J00-W0002-00	WIRE LUG
25	L00-P3514-F0	FIBRE WASHER
26	M1P-T3501-25	T3.5 X 25 P/H (+) FOR BACK/FRONT CAB. MTG.
27	M1B-T4001-25	T4 X 25 B/H (+) FOR CRT/FRONT CAB. MTG.
28	M1B-T4001-10	T4 X 10 B/H (+) FOR HEAT SINK/FLY BACK TRANS MTG.
29	M1P-T3001-12	T3 X 12 P/H (+) FOR HEAT SINK/CHASSIS BKT. MTG.
30	M1P-T3001-12	T3 X 12 P/H (+) FOR HEAT SINK/CHASSIS BKT. MTG.
31	M1P-T3001-08	T3 X 8 P/H (+) FOR MAIN P.C.B./CHASSIS BKT. MTG.
32	M1P-T3001-08	T3 X 8 P/H (+) FOR AC CORD/AC CORD HOLDER MTG.
33	M1P-T3001-10	T3 X 10 P/H (+) FOR POWER SW./FRONT CAB. MTG.
34	M1B-T2600-10	T2.6 X 10 B/H (+) FOR CONTROL P.C.B./FRONT CAB. MTG.
35	M1B-T2600-06	T2.6 X 8 B/H (+) FOR CONTROL P.C.B./FRONT CAB. MTG.
36	M1B-T2600-06	T2.6 X 6 B/H (+) FOR PUSH BUTTON/FRONT CAB. MTG.
37	P01-01086-01	TWISTED WIRE L = 860 MM
38	A04-A0114-00	CABLE TIE L = 8"
39	A03-B0135-00	JACK PLATE-BLACK MOULDED
40	M1P-T3001-08	T3 X 8 P/H (+) FOR AV BOARD/JACK PLATE MTG
41	M1B-T3001-12	T3 X 12 B/H (+) FOR JACK PLATE/P.C.B./CHASSIS BKT. MTG.

# T-819SGK/T-919SGK(W/AV)

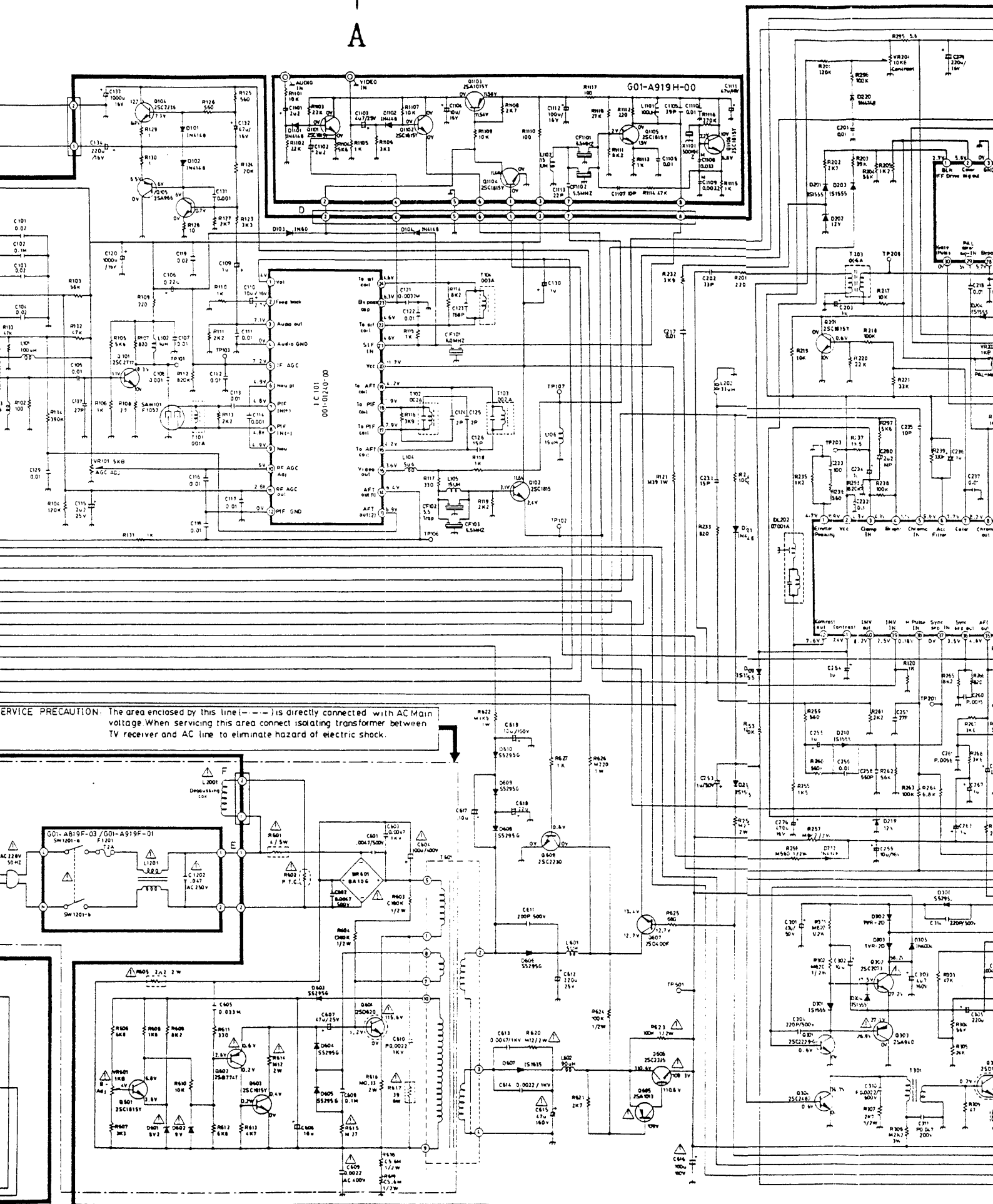
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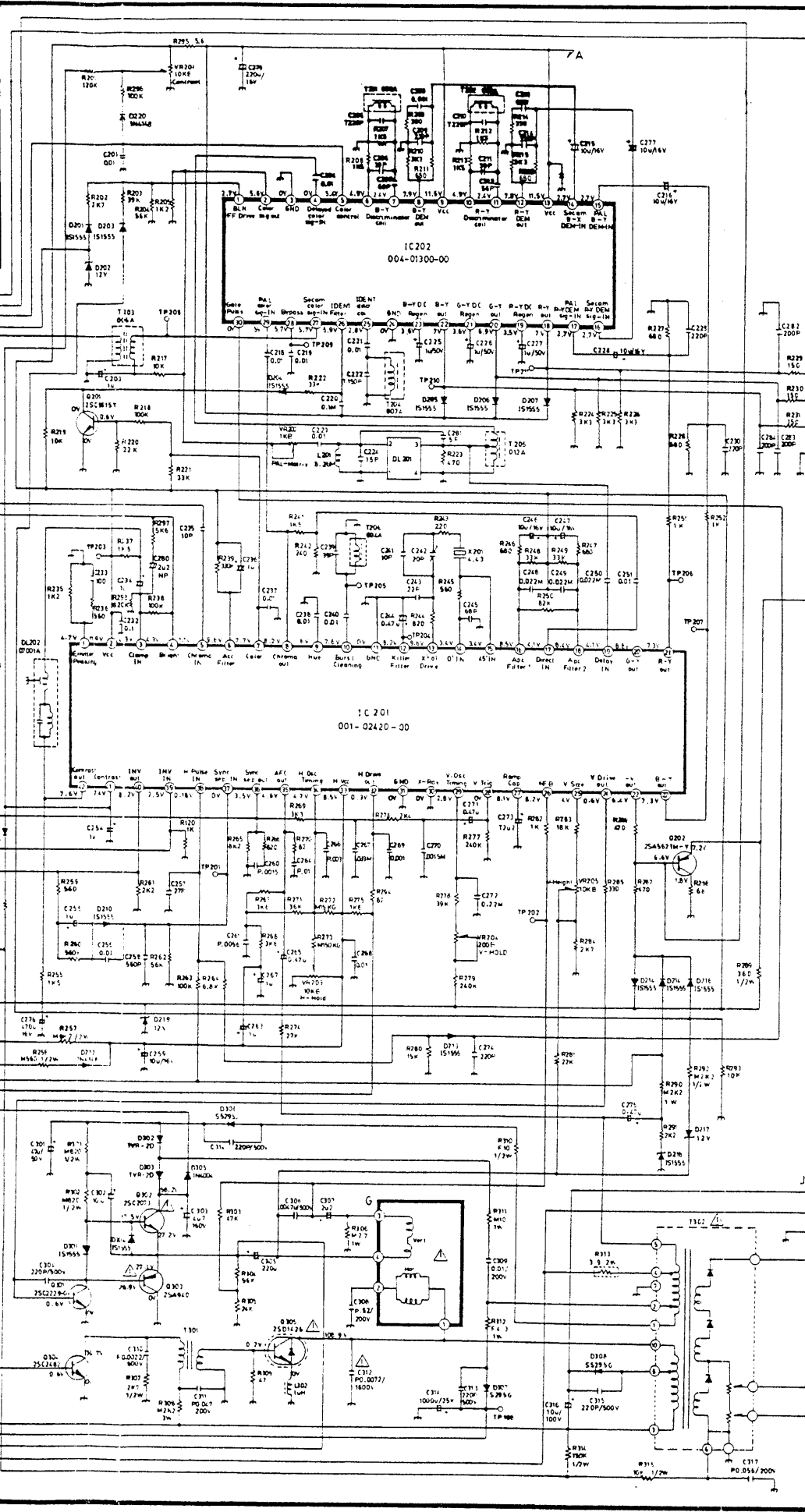


G01-AB19C-01 (G01-A919C-01)

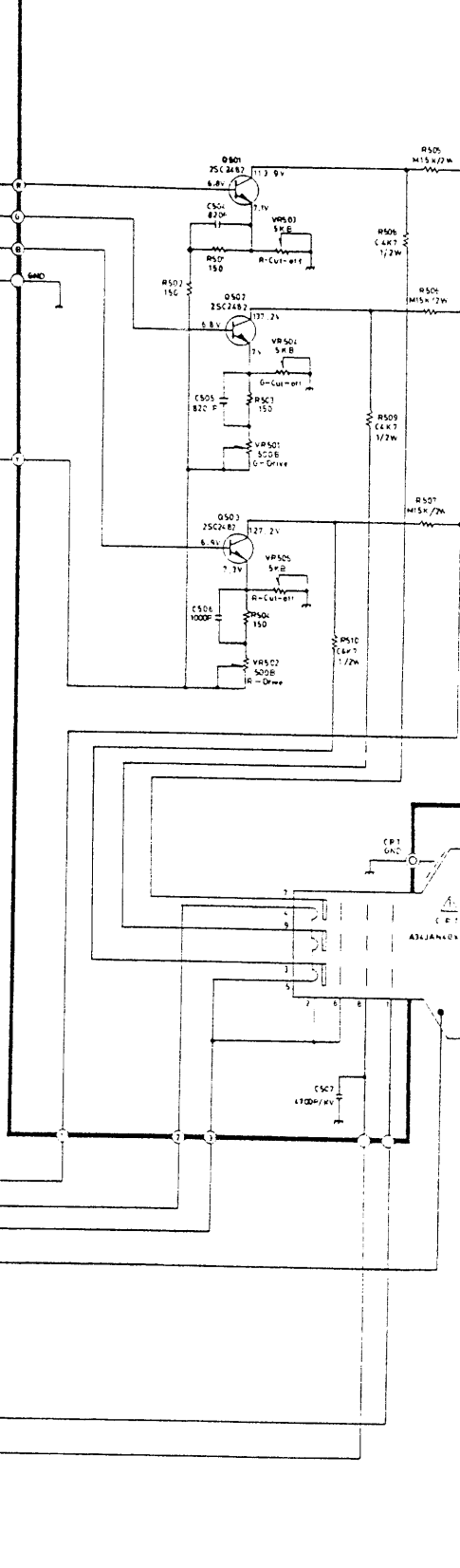
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A

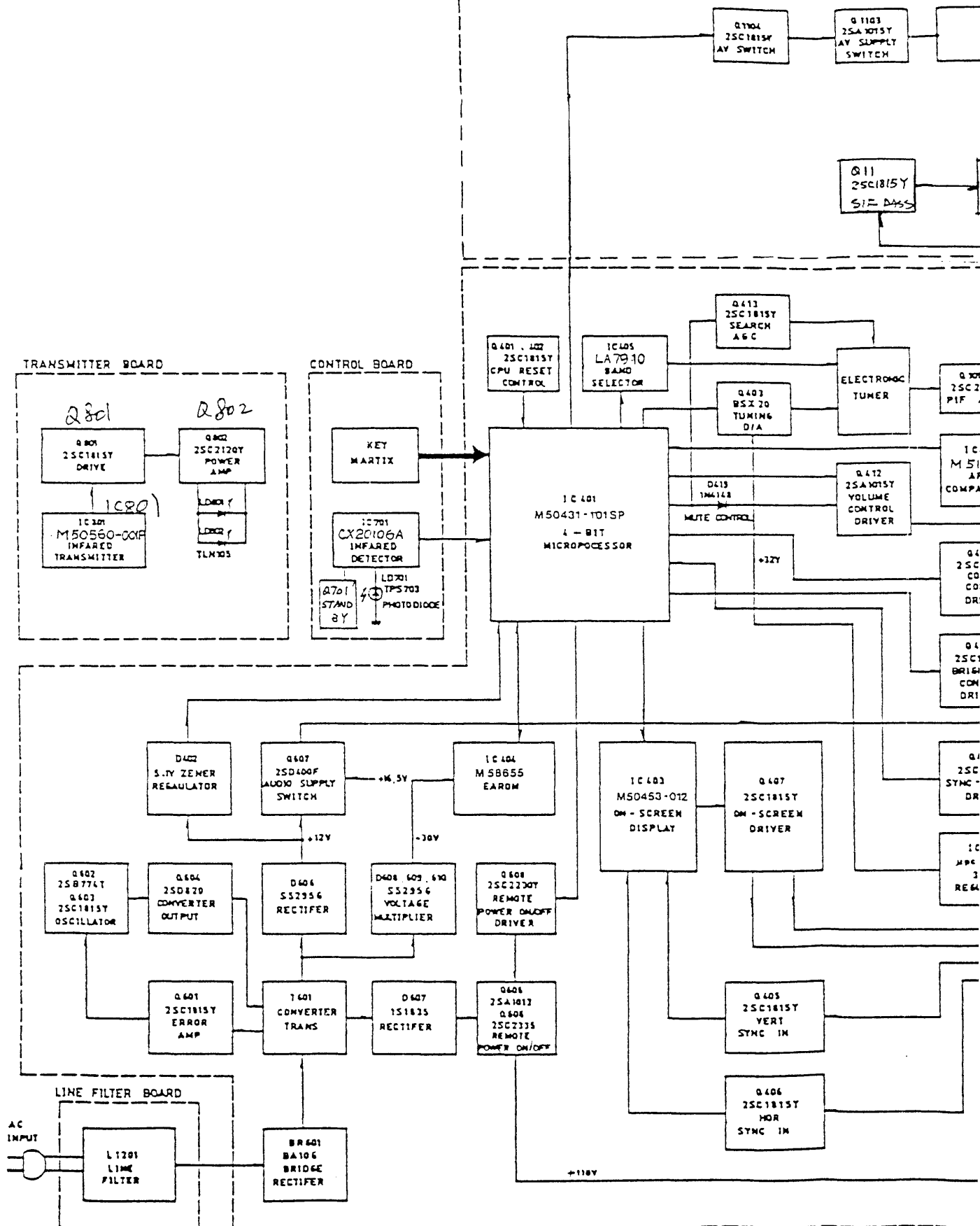




G01-A118E-00



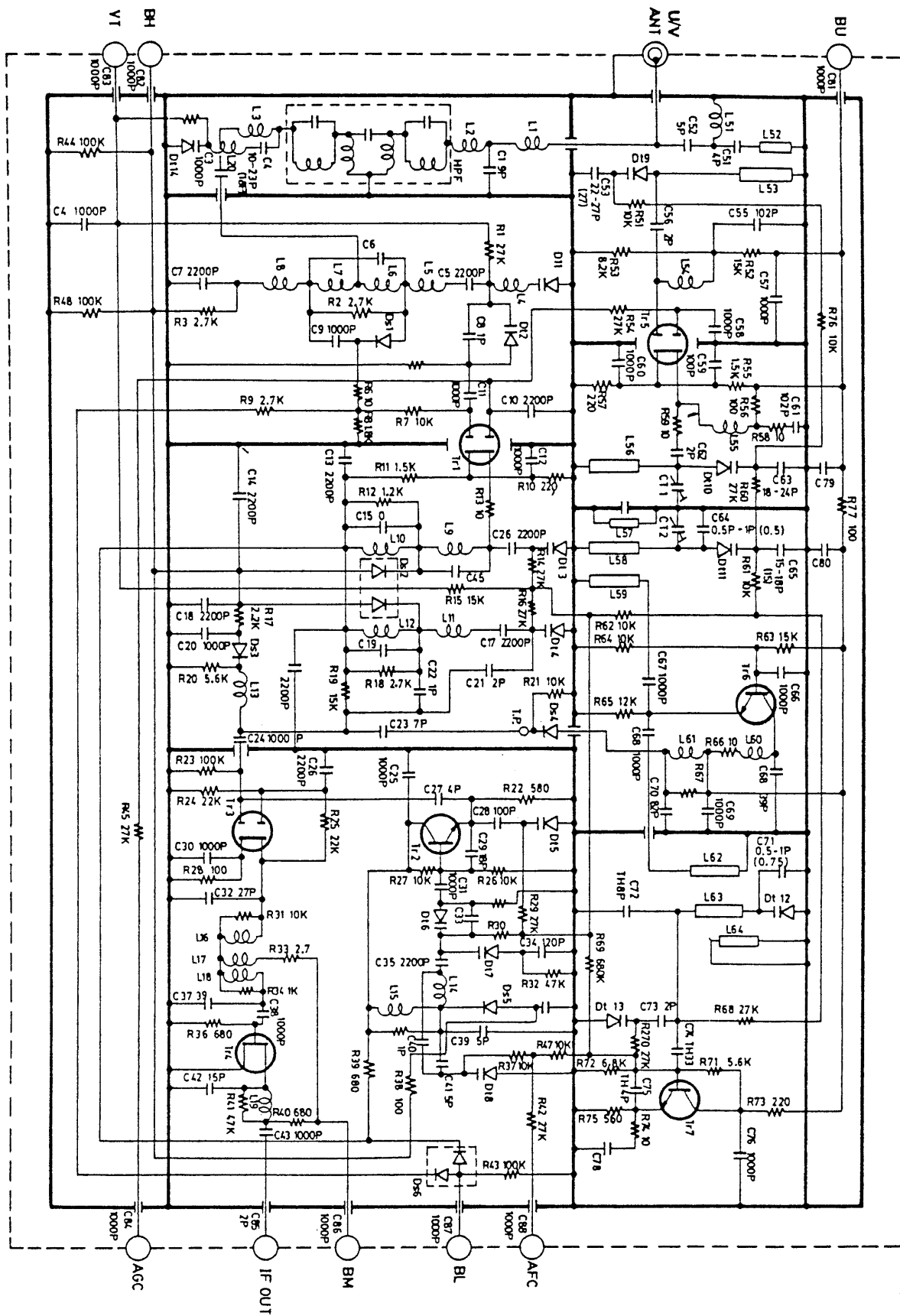
# AUDIO/VIDEO INPUT/SIF PASS BOARD



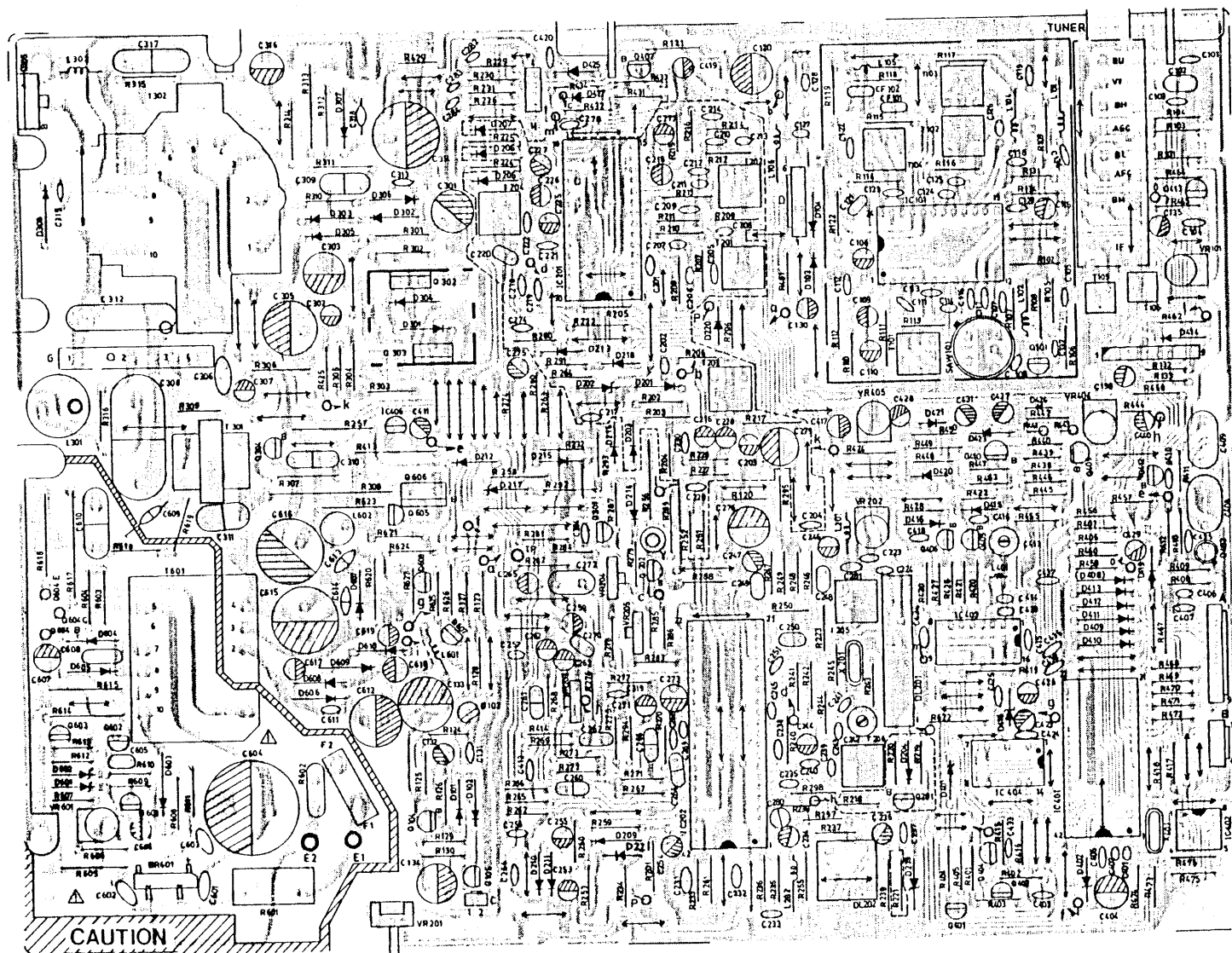




# TUNER CIRCUIT

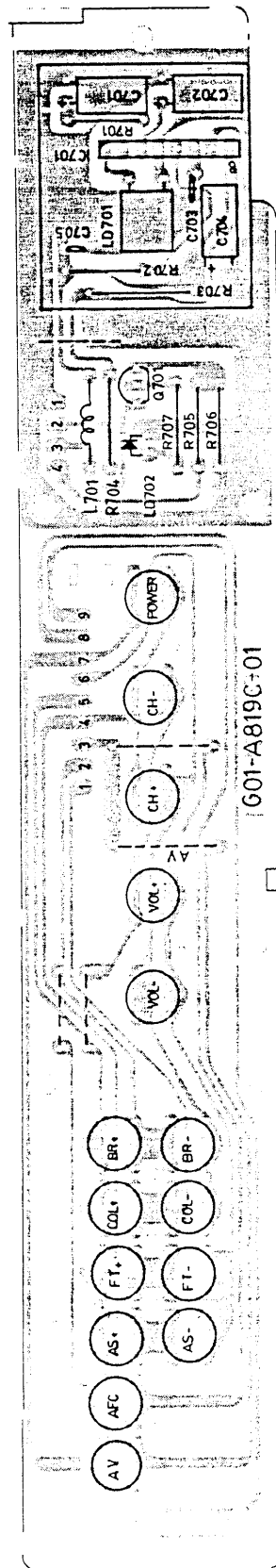


# COMPONENT VIEW OF MAIN P.C. BOARD



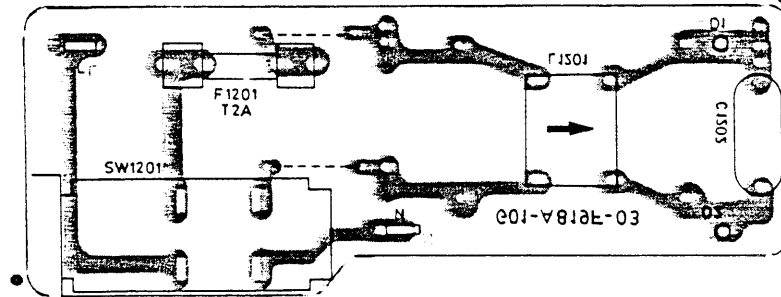
291mm

# COMPONENT VIEW OF CONTROL P.C. BOARD





# TOP SIDE OF AC LINE FILTER BOARD



# **ELECTRICAL PARTS LIST**

SCHEMATIC NO.	PART NO.	DESCRIPTION	SCHEMATIC NO.	PART NO.	DESCRIPTION
R264, 425, 428, 440, 450, 473, 476, 606, 612	D01-A682C-DO	6.8 KOHM	R616	D04-D003C-HO	0.33 OHM +/-5% 2W
R114, 265, 449, 609	D01-A822C-DO	8.2 KOHM	R614, 620	D04-D120C-HO	12 OHM +/-5% 2W
R101, 217, 219, 293, 401, 402, 404, 409, 422, 463, 438, 443, 444, 447, 610, 460, 461	D01-A103C-DO	10 KOHM	R256, 615	D04-D270C-HO	27 OHM +/-5% 2W
R280	D01-A153C-DO	15 KOHM	R257	D04-D822C-HO	8.2 KOHM +/-5% 2W
R283	D01-A183C-DO	18 KOHM	R413	D04-D153C-HO	15 KOHM +/-5% 2W
R124	D01-A203C-DO	20 KOHM	R308	D04-D222C-IO	2.2 KOHM +/-5% 3W
R220, 281, 415, 439, 459	D01-A223C-DO	22 KOHM	<b>FUSIBLE RESISTOR</b>		
R305	D01-A243C-DO	24 KOHM	R310	D03-E100C-FO	10 OHM +/-5% 1/2W
R274, 448	D01-A273C-DO	27 KOHM	R312	D03-E043C-GO	4.3 OHM +/-5% 1W
R221, 222, 248, 249, 403, 408, 410, 411, 412, 417, 418, 431, 432, 455	D01-A333C-DO	33 KOHM	<b>NON-INFLAMMABLE RESISTOR</b>		
R271, 442	D01-A363C-DO	36 KOHM	R601	D03-G040D-JO	4 OHM +/-10% 5W
R203, 278	D01-A393C-DO	39 KOHM			KW-SQZ
R132, 133, 303	D01-A473C-DO	47 KOHM	R605	D03-G022D-HO	2.2 OHM +/-10% 2W
R103, 204, 262, 304, 445	D01-A563C-DO	56 KOHM			KW-KNP
R441	D01-A683C-DO	68 KOHM	R313	D03-G039D-HO	3.9 OHM +/-10% 2W
R250	D01-A823C-DO	82 KOHM			KW-KNP
R201, 218, 238, 263, 296, 419, 456, 457, 465, 234	D01-A104C-DO	100 KOHM	R617	D03-G390D-KO	39 OHM +/-10% 6W
R104, 253	D01-A124C-DO	120 KOHM			KW-KNP
R464	D01-A224C-DO	220 KOHM	R602	D06-H300Z-00	P.T.C. THERMISTOR
R277, 279	D01-A244C-DO	240 KOHM	<b>CARBON COMPOSITION RESISTOR</b>		
R239	D01-A334C-DO	330 KOHM	R618, 619	D05-B565D-FO	5.6 MOHM +/-10% 1/2W
R134	D01-A394C-DO	390 KOHM	R603, 604	D05-B184D-FO	180 KOHM +/-10% 1/2W
R260	D01-A564C-DO	560 KOHM	C242, 413	E04-B200A-00	TRIMMER CAPACITOR 20PF
R112, 298	D01-A824C-DO	820 KOHM	<b>CERAMIC CAPACITOR</b>		
<b>CARBON FILM RESISTOR +/-5% 1/2W</b>			C124, 125	F01-C020F-AO	2PF 50V +/-0.25PF
R289	D01-A361C-FO	360 OHM	C281	F01-C050F-CO	5PF 50V +/-5%
R307	D01-A272C-FO	2.7 KOHM	C241	F01-C100F-CO	10PF 50V +/-5%
R315	D01-A103C-FO	10 KOHM	C126, 224, 231	F01-C150F-CO	15PF 50V +/-5%
R623, 624	D01-A104C-FO	100 KOHM	C243, 439	F01-C220F-CO	22PF 50V +/-5%
R314	D01-A154C-FO	150 KOHM	C137, 257	F01-C270F-CO	27PF 50V +/-5%
R622	D01-A152C-FO	1.5 KOHM	C401, 402	F01-C300F-CO	30PF 50V +/-5%
<b>METAL FILM RESISTOR</b>			C202	F01-C330F-CO	33PF 50V +/-5%
R272	D00-C153B-DO	15 KOHM +/-2% 1/4W	C406	F01-C470F-CO	47PF 50V +/-5%
R273	D00-C154B-DO	150 KOHM +/-2% 1/4W	C212, 235, 407	F01-C560F-CO	56PF 50V +/-5%
<b>METAL OXIDE RESISTOR</b>			C207, 245	F01-C680F-CO	68PF 50V +/-5%
R258	D04-D561C-FO	560 OHM +/-5% 1/2W	C206, 211, 239	F01-C390F-CO	39PF 50V +/-5%
R301, 302	D04-D821C-FO	820 OHM +/-5% 1/2W	C420	F01-C820F-CO	82PF 50V +/-5%
R292	D04-D222C-FO	2.2 KOHM +/-5% 1/2W	C233, 414	F01-C101F-CO	100PF 50V +/-5%
R306	D04-D027C-GO	2.7 OHM +/-5% 1W	C222, 437, 438	F01-C151F-CO	150PF 50V +/-5%
R311	D04-D100C-GO	10 OHM +/-5% 1W	C282, 283, 284	F01-C201F-CO	200PF 50V +/-5%
R121	D04-D390C-GO	39 OHM +/-5% 1W	C205, 210, 229, 230, 274, 435	F01-221F-CO	220PF 50V +/-5%
R626	D04-D221C-GO	220 OHM +/-5% 1W	C209, 214, 433, 434	F01-C331F-CO	330PF 50V +/-5%
R290	D04-D222C-GO	2.2 KOHM +/-5% 1W	C418	F01-C391F-CO	390PF 50V +/-5%
			C258	F01-C561F-CO	560PF 50V +/-5%
			C105, 107, 111, 112, 113, 116, 117, 118, 122, 129, 201, 204, 217, 218, 219, 221, 223, 237, 238, 240, 251, 256, 268, 415, 416, 424, 425	F01-C103F-GO	0.01UF 50V +80-20%
			C136, 232, 278	F01-C104F-GO	0.1UF 50V +80-20%
			C101, 103, 104, 119, 405, 410, 412	F01-C203F-GO	0.02UF 50V +80-20%

## ELECTRICAL PARTS LIST

SCHEMATIC NO.	PART NO.	DESCRIPTION	SCHEMATIC NO.	PART NO.	DESCRIPTION
C108, 114, 208, 213, 269, 403, 436, 131	F01-C102F-DO	1000PF 50V +/-10%	C302, 423, 606, 617	F01-E106F-EO	10UF 50V +/-20%
C304, 313, 315, 318, 611	F05-C221N-DO	220PF 500V +/-10%	C618	F01-E226F-EO	22UF 50V +/-20%
C306, 601, 602	F05-C472N-DO	0.0047UF 500V +/-10%	C301	F01-E476F-EO	47UF 50V +/-20%
C614	F05-C222O-DO	0.0022UF 1KV +/-10%	C305	F01-E227F-EO	220UF 50V +/-20%
C603, 613	F05-C472O-DO	0.0047UF 1KV +/-10%	C316, 619	F01-E106H-FO	10UF 100V +/-20%
C609	F05-C222W-EO	AC CAPACITOR 0.0022UF AC400V +/-20%	C303	F01-E475I-FO	4.7UF 160V +50-10%
<b>POLYESTER FILM CAPACITOR</b>			C615	F01-E476I-FO	47UF 160V +50-10%
C248, 249, 250	F11-M223H-DO	0.022UF 100V +/-10%	C616	F01-E107I-FO	100UF 160V +50-10%
C267, 605	F11-M333H-DO	0.033UF 100V +/-10%	C604	F01-E107M-FO	100UF 400V +50-10%
C102, 220, 608	F11-M104H-DO	0.1UF 100V +/-10%	PCB001	G01-A819A-00	MAIN P.C. BOARD 291MM×219MM×1.6MM
C272, 409	F11-M224H-DO	0.22UF 100V +/-10%	L102	H05-0102A-00	PEAKING COIL 1UH
C270	F11-M153H-DO	0.015UF 100V +/-10%	L104	H05-0103A-00	PEAKING COIL 5.6UH
C408	F11-M474H-DO	0.47UF 100V +/-10%	L201	H05-0104A-00	PEAKING COIL 8.2UH
C121	F11-M472H-DO	0.0047UF 100V +/-10%	L105, 106, 401	H05-0105A-00	PEAKING COIL 15UH
<b>POLYPROPYLENE FILM CAPACITOR (B TYPE)</b>			L202	H05-0106A-00	PEAKING COIL 33UH
C260	F08-D152F-CO	0.0015UF 50V +/-5%	L101	H05-0111A-00	PEAKING COIL 100UH
C261	F08-D562F-CO	0.0056UF 50V +/-5%	L103	H05-0101A-00	PEAKING COIL 0.56UH
C266	F08-D302F-CO	0.003UF 50V +/-5%	L302	H13-0203A-00	CHOKE COIL 1UH
C264	F08-D103F-CO	0.01UF 50V +/-5%	L602	H02-0101A-00	CHOKE COIL 90UH
<b>POLYPROPYLENE FILM CAPACITOR</b>			L601	H02-1031A-00	CHOKE COIL 5UH
C310	F08-P222N-DO	0.0022UF 630V +/-10%	T101	H01-1301A-00	PIF MATCHING COIL
C309	F08-P103K-DO	0.01UF 200V +/-10%	T102, 103	H01-1302A-00	PIF DET COIL
C311	F08-P473K-DO	0.047UF 200V +/-10%	T104	H01-1303A-00	SIF DET COIL
C317	F08-P563K-DO	0.056UF 200V +/-10%	T205	H01-1401A-00	DELAY LINE MATCHING COIL
C308	F08-P524K-DO	0.52UF 200V +/-10%	T206	H01-1402A-00	BURST CLEANING COIL
C312	F08-P722P-CO	0.0072UF 1.6KV +/-5%	T203	H01-1403A-00	BELL FILTER COIL
C610	F08-P222O-DO	0.0022UF 1200V +/-10%	T204	H01-1404A-00	IDENT COIL
<b>T-C CERAMIC CAPACITOR</b>			T201, 202	H01-1405A-00	DISCRI BURST
C123	F01-L680F-CO	68PF 50V +/-5%	DL202	H01-0701A-00	Y-DELAY LINE
<b>ELECTROLYTIC CAPACITOR (SINGLE ENDED TYPE)</b>			T301	I01-0401A-00	HORIZONTAL DRIVE TRANSFORMER
C404	F01-E337B-EO	330UF 10V +/-20%	T302	I12-0501A-00	FLYBACK TRANSFORMER
C110, 135, 215, 216, 228, 246, 247, 259, 277,440	F01-E106C-EO	10UF 16V +/-20%	T601	I07-0601A-00	SWITCHING TRANSFORMER
C132, 253	F01-E476C-EO	47UF 16V +/-20%	<b>TAIKO TL-25 V-TYPE CONNECTOR</b>		
C134, 279	F01-E227C-EO	220UF 16V +/-20%	SOCKET C	J05-0102A-00	2 PIN WAFER
C276	F01-E477C-EO	470UF 16V +/-20%			TL-25P-02-V1
C120, 133	F01-E108C-EO	1000UF 16V +/-20%	SOCKET B	J05-0104A-00	4 PINS WAFER
C607	F01-E476D-EO	47UF 25V +/-20%			TL-25P-04-V1
C612	F01-E227D-EO	220UF 25V +/-20%	SOCKET D	J05-0108A-00	8 PINS WAFER
C314	F01-E108D-EO	1000UF 25V +/-20%			TL-25P-08-V1
C273	F01-E225F-DO	2.2UF 50V +/-10%	SOCKET A	J05-0109A-00	9 PINS WAFER
C106	F01-E224F-EO	0.22UF 50V +/-20%			TL-25P-09-V1
C244, 265, 271, 275, 428	F01-E474F-EO	0.47UF 50V +/-20%	SOCKET Y	J03-0401A-00	SMK M-1 CONNECTOR
C109, 130, 138, 203, 225, 226, 227, 234, 236, 254, 255, 262, 263, 411, 417, 426, 419, 427, 431	F01-E105F-EO	1UF 50V +/-20%			WAFER 1 PIN
C115, 307, 429	F01-E225F-EO	2.2UF 50V +/-20%	SOCKET G	J03-0406A-00	SMK M-1 CONNECTOR
C280	F01-N225F-EO	2.2UF 50V N.P. +/-20%			WAFER 6 PINS
			FOR AC IN, DEGAUSSING COIL	J05-01010-00	TAIKO TS-80 CONNECTOR
			X201	M07-A4434-00	CRYSTAL
			X401	M02-A4004-00	CRYSTAL 4.00 MHz
					ALTERNATE : CERAMIC RESONATOR 4MHz
					CSA4.00MG
					(M01-A4004-00)
				N01-02B01-01	TUNER B/G SYSTEM (UVE33-W14)

# ELECTRICAL PARTS LIST

SCHEMATIC NO.	PART NO.	DESCRIPTION	SCHEMATIC NO.	PART NO.	DESCRIPTION
INTEGRATED CIRCUIT			***MAIN P.C.B. ASSEMBLY***		
IC101	001-01240-00	TA7680AP	VR201	C07-C104B-B0	10MM ROTARY VR10KB CONTRAST
IC202	001-02420-00	TA7698AP			
IC201	004-01300-00	M51397AP			
IC406	007-06020-00	L5630 ALTERNATE KA33V (011-06020-00)			
IC401	004-01420-00	M50431-101SP	***CRT P.C.B. ASSEMBLY***		
IC404	004-01140-00	M58655P	TRANSISTOR		
IC403	004-01160-00	M50453-012	Q501, 502, 503	A01-C482D-00	2SC2482
IC402	004-01080-00	M51923P	SEMI-FIXED RESISTOR		
IC405	007-02090-00	LA7910	VR501, 502	C01-A502B-C0	500B (RVF8W01-501) G.B. — DRIVE
CF101	X02-01002-00	CERAMIC FILTER SFE6.0 MHZ	VR503, 504, 505	C01-A503B-C0	5KB (RVF8W01-502) R.G.B. — CUT OFF
CF103	X02-02004-00	CERAMIC FILTER TFS6.5 MHZ	CARBON FILM RESISTOR 1/4W +/-5%		
CF102	X02-02001-00	CERAMIC FILTER TPS5.5 MHZ	R501, 502, 503, 504	D01-A151C-D0	150 OHM
SAW101	X01-03004-00	TV PIF SAW FILTER F1057	CARBON COMPOSITION RESISTOR 1/2W +/-10%		
DL201	Y02-01401-01	ULTRASONIC DELAY LINE ALTERNATE (Y03-01401-01) GLASS DELAY LINE OR EFD-END-EN645A11G (6704-030200-00)	R508, 509, 510	D05-B472C-F0	4.7 KOHM
SINGLE JUMPER WIRE AWG22 (L2/L3 = 5MM x 2 NON TINNED)			METAL OXIDE RESISTOR		
	S02-B1210-EA	120MM BLACK A, O	R505, 506, 507	D04-D153C-H0	15 KOHM 2W +/-5%
	S02-B1316-EA	130MM BLUE J	CERAMIC CAPACITOR		
	S02-B1011-EA	100MM BROWN B	C504, 505	F01-C821F-D0	820PF 50V +/-10%
	S02-B1512-EA	150MM RED C, K	C506	F01-C102F-D0	.001UF 50V +/-10%
	S02-B1713-EA	170MM ORANGE D	C507	F05-C4720-D0	.0047UF 1KV +/-10%
	S02-B1719-EA	170MM WHITE H, L, I	PCB002	G01-A118E-00	CRT PCB
	S02-B1915-EA	190MM GREEN G			90MMx66MMx1.6MM
	S02-B2017-EA	200MM VIOLET M		V01-05001-60	PICTURE TUBE SOCKET
	S02-B2114-EA	210MM YELLOW E, F	CRT	J05-01010-00	TAIKO TS-80 CONNECTOR
	S02-B1810-EA	180MM BLACK P	GROUNDING		
	V06-20001-00	BRASS PIN	STRAND JUMPER AWG24 (UL1007)		
			L2/L3 = 3.5MM	S02-D2812-1A	280MM RED J1
			TINNED		
			L2/L3 = 3.5MM	S02-D2814-1A	280MM YELLOW J2
			TINNED		
			L2/L3 = 3.5MM	S02-D2810-1A	280MM BLACK J3
			TINNED		
			CONNECTOR ASSEMBLY		
			J03-0101A-00		SMK M-1 CONNECTOR 1 PIN
					WIRE TYPE : AWG24, STRAND, 1007 UL/CSA APPROVED L1=320MM, WHITE L2=3.5MM TINNED
			SOCKET H	J05-0504A-02	TAIKO TLB-P CONNECTOR
					WIRE TYPE : AWG24, STRAND 1007 UL/CSA APPROVED
					PIN 1 L1=320MM GREEN L2=3.5MM TINNED
					PIN 2 L1=320MM BLUE L2=3.5MM TINNED
					PIN 3 L1=320MM RED L2=3.5MM TINNED
					PIN 4 L1=320MM BLACK L2=3.5MM TINNED



# ELECTRICAL PARTS LIST

SCHEMATIC NO.	PART NO.	DESCRIPTION	SCHEMATIC NO.	PART NO.	DESCRIPTION
***CONTROL P.C.B. ASSEMBLY***			SOCKET A		
Q701	A01-A105E-00	2SA1015Y	J05-0209A-00	TAIKO CONNECTOR	9 PINS
<b>CARBON FILM RESISTOR 1/4W +/-5%</b>			WIRE TYPE : AWG24, STRAND, 1007 UL/CSA APPROVED		
R707	D01-A221C-D0	220 OHM	PIN 1 L1=230MM BROWN L2=3.5MM TINNED		
R704	D01-A222C-D0	2.2 KOHM	PIN 2 L1=230MM RED L2=3.5MM TINNED		
R701	D01-A047C-D0	4.7 OHM	PIN 3 L1=230MM ORANGE L2=3.5MM TINNED		
R705	D01-A562C-D0	5.6 KOHM	PIN 4 L1=230MM YELLOW L2=3.5MM TINNED		
R703	D01-A223C-D0	22 KOHM	PIN 5 L1=230MM GREEN L2=3.5MM TINNED		
R706	D01-A823C-D0	82 KOHM	PIN 6 L1=230MM BLUE L2=3.5MM TINNED		
R702	D01-A224C-D0	220 KOHM	PIN 7 L1=230MM VIOLET L2=3.5MM TINNED		
<b>CERAMIC CAPACITOR</b>			PIN 8 L1=230MM WHITE L2=3.5MM TINNED		
C705	F01-C203F-G0	0.02UF 50V +80-20%	PIN 9 L1=230MM BLACK L2=3.5MM TINNED		
C703	F01-C331F-C0	330PF 50V +/-5%			
<b>ELECTROLYTIC CAPACITOR</b>			**AV INPUT/SIF BAND PASS BOARD**		
C702	F01-E335F-E0	3.3UF 50V +/-20%	<b>TRANSISTOR</b>		
C701	F01-E105F-E0	1UF 50V +/-20%	Q1101, 1102,	A01-C815E-00	2SC1815Y
C704	F01-E476B-E0	47UF 10V +/-20%	1104, 1105, 1106		
PCB003	**G01-A819C-01	CONTROL P.C. BOARD	Q1103	A01-A015E-00	2SA1015Y
L701	H05-0111A-00	CHOKE COIL 100UH	<b>DIODE</b>		
	K13-0101A-01	TACT SWITCH (SHAFT LENGTH 1.5MM) ALTERNATE (K07-0101A-01)	D1101, 1102	B01-01148-00	1N4148
	K13-0101A-02	TACT SWITCH (SHAFT LENGTH 6 MM) ALTERNATE (K07-0101A-02)	<b>CARBON FILM RESISTOR +/-5% 1/4W</b>		
IC701	016-01080-00	IC CX20106A	R1110, 1117	D01-A101C-D0	100 OHM
LD701	P01-06010-00	PHOTO DIODE TPS703	R1105, 1113, 1115	D01-A122C-D0	1 KOHM
LD702	P01-01010-00	LED RED TLR124	R1108	D01-A272C-D0	2.7 KOHM
SOCKET B	J05-0204A-01	TAIKO CONNECTOR 4 PINS	R1106	D01-A332C-D0	3.3 KOHM
		H-TL25H04-B1-T-001T-5100	R1104	D01-A562C-D0	5.6 KOHM
		WIRE TYPE : AWG26 STRAND, 1007	R1107, 1109, 1101	D01-A103C-D0	10 KOHM
		PIN 1 L1=260MM BLACK L2=3.5MM TINNED	R1102, 1103	D01-A223C-D0	22 KOHM
		PIN 2 L1=320MM RED L2=3.5MM TINNED	R1112	D01-A221C-D0	220 OHM
		PIN 3 L1=260MM WHITE L2=3.5MM TINNED	R1118	D01-A273C-D0	27 KOHM
		PIN 4 L1=260MM YELLOW L2=3.5MM TINNED	R1116	D01-A274C-D0	270 KOHM
			R1111	D01-A822C-D0	8.2 KOHM
			R1114	D01-A473C-D0	47 KOHM

# **ELECTRICAL PARTS LIST**

SCHEMATIC NO.	PART NO.	DESCRIPTION	SCHEMATIC NO.	PART NO.	DESCRIPTION
<b>CERAMIC CAPACITOR</b>			<b>***COMPONENT NOT MOUNTED ON PCB***</b>		
C1107	F01-C100F-C0	10PF 50V +/-5%	L2001	H07-0801A-00	DEGAUSSING COIL
C1105	F01-C390F-C0	39PF 50V +/-5%		L05-01002-00	LOUD SPEAKER 8 OHM
C1106, 1110	F01-C103F-G0	.01UF 50V +80-20%		T01-01340-00	3" x 5" ALTERNATE : (L08-01002-01)
C1113	F01-C220F-C0	22PF 50V +/-5%		J05-0202A-00	COLOR PICTURE TUBE A34JAN40X02(W)
	**J05-0208A-01	TAIKO TL-25 V-TYPE CONNECTOR 8 PINS WIRE TYPE : AWG26 STRAND UL1007 PIN 1 L1=110MM BROWN L2=3.5MM TINNED PIN 2 L1=120MM RED L2=3.5MM TINNED PIN 3 L1=120MM ORANGE L2=3.5MM TINNED PIN 4 L1=150MM YELLOW L2=3.5MM TINNED PIN 5 L1=140MM GREEN L2=3.5MM TINNED PIN 6 L1=110MM BLUE L2=3.5MM TINNED PIN 7 L1=100MM VIOLET L2=3.5MM TINNED PIN 8 L1=100MM GRAY L2=3.5MM TINNED			TAIKO TL-25 V-TYPE CONNECTOR 2 PIN WIRE TYPE : AWG24, STRAND, 1007 UL/CSA APPROVED PIN 1 L1=320MM BLACK L2=3.5MM TINNED PIN 2 L1=320MM WHITE L2=3.5MM TINNED
<b>PIN JACK ASSEMBLY</b>			FOR CRT GROUNDING	J05-0101A-10	TAIKO TS-80 CONNECTOR 1 PIN WIRE TYPE : AW24, STRAND 1015 UL/CSA APPROVED L1=280MM BLACK L2=10MM NON-TINNED
	**V01-03000-00	PIN JACK V-TYPE BLACK			
	**V01-03000-04	PIN JACK V-TYPE YELLOW			
	**V01-13000-00	EARTH TERMINAL			
<b>ELECTROLYTIC CAPACITOR (SINGLE END TYPE)</b>			<b>*****AC LINE FILTER PCB ASSEMBLY*****</b>		
C1101, 1102	F01-E225F-E0	2.2UF 50V +/-20%	C1202	F01-P473V-E0	FILM CAPACITOR 0.047UF AC 250V
C1103	F01-E475D-E0	4.7UF 25V +/-20%		**G01-A819F-03	AC LINE FILTER P.C. BOARD
C1104	F01-E106C-E0	10UF 16V +/-20%	L1201	H07-0601A-00	AC LINE FILTER
C1112	F01-E107C-E0	100UF 16V +/-20%		S04-A2220-00	AC LINE CORD L=2.2M VDE APPROVED
C1111	F01-E476C-E0	47UF 16V +/-20%	SW1201	**K14-0201E-00	POWER SWITCH "ITT" 2P1T
<b>POLYESTER FILM CAPACITOR</b>			F1201	U01-02010-00	FUSE T2A AC 250V
C1108	F11-M333H-D0	0.033UF 100V +/-10%		V04-06001-00	FUSE HOLDER
C1109	F11-M222H-D0	0.0022UF 100V +/-10%	FOR D2 (NEUTRAL LINE)	J05-0101A-02	TAIKO TS-80 CONNECTOR 1 PIN WIRE TYPE : AWG22, STRAND DOUBLE INSULATION, 1617 UL/CSA APPROVED L1=360MM BLUE L2=10MM NON-TINNED
	**G01-A919H-00	AV INPUT P.C. BOARD			
L1101	H05-0111A-00	PEAKING COIL 100UH	FOR D1 (LIVE LINE)	J05-0101A-04	TAIKO TS-80 CONNECTOR 1 PIN WIRE TYPE : AWG22, STRAND DOUBLE INSULATION 1617 UL/CSA APPROVED L1=360MM BROWN L2=10MM NON-TINNED
L1102	H05-0105A-00	PEAKING COIL 15UH			
X1101	**M01-B5001-00	CERAMIC RESONATOR 500KHz			
CF1101	X02-01001-00	CERAMIC FILTER SFE 5.5MB			
CF1102	**X02-01004-00	CERAMIC FILTER SFE 6.5MB			

# **ELECTRICAL PARTS LIST**

SCHEMATIC NO.	PART NO.	DESCRIPTION	SCHEMATIC NO.	PART NO.	DESCRIPTION
<b>***HAND SET PCB ASSEMBLY***</b> <b>*** (PRE-ASSEMBLED IN CHINA) ***</b>					
<b>TRANSISTOR</b>					
Q801	A01-C815E-00	2SC1815Y			
Q802	A01-C120E-00	2SC2120-Y			
<b>DIODE</b>					
D801	B01-01148-00	IN4148			
D802	B01-01001-00	IN4001			
<b>CARBON FILM RESISTOR 1/4W +/-5%</b>					
R801, 802	D01-A010C-D0	1 OHM			
R804	D01-A101C-D0	100 OHM			
R803	D01-A223C-D0	22 KOHM			
<b>ELECTROLYTIC CAPACITOR (SINGLE ENDED TYPE)</b>					
C803	F01-E107B-E0	100UF 10V +/-20%			
<b>CERAMIC CAPACITOR</b>					
C801, 802	F01-C101F-C0	100PF 50V +/-5%			
	**G01-B819E-02	HAND SET P.C. BOARD			
X801	M01-B4551-00	CERAMIC RESONATOR 455KHz ALTERNATE: KBR-455BKTL (M03-B4551-00)			
<b>INTEGRATED CIRCUIT</b>					
IC801	004-01200-00	IC M50560-001P			
LD801, 802	B01-06110-00	INFRARED LED TLN105 ALTERNATE INFRARED LED SE303 A-C(B02-06110-00)			
<b>STRAND JUMPER WIRE AWG26 (UL 1007)</b>					
L2/L3=3.5MM TINNED	S00-D4002-JA	40MM RED B+			
L2/L3=3.5MM TINNED	S00-D4000-JA	40MM BLACK B-			



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