

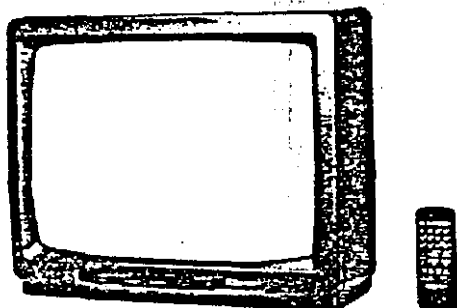


SERVICE MANUAL

MODEL
TC1972D

CAUTION

Before Servicing the chassis, read the "IMPORTANT SERVICE SAFETY INFORMATION" on page 2 of this manual.



19" REMOTE CONTROL COLOR
TELEVISION WITH ON-SCREEN
PICTURE CONTROLS

AKB AUTOMATIC KINE BIAS

CCD CLOSED CAPTION DECODER

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SPECIFICATIONS

AC POWER INPUT	120V ± 10%, 60Hz
AC POWER CONSUMPTION	102 Watts @ 120V
PICTURE SIZE	19" (MEASURED DIAGONALLY)
FOCUS LENS	Bipotential
AUDIO POWER OUTPUT RATING	1.2 Watts
FREQUENCY RESPONSE	250Hz -0.5 ± 3dB
SPEAKER SIZE	3-1/16" 6KHz 0+/-3dB 0.33 oz Magnet
VOICE COIL IMPEDANCE	8 ohms at 600Hz
ANTENNA INPUT IMPEDANCE	75 ohm Coaxial input
RECEIVING CHANNELS	
VHF	2-13
UHF	1
CATV	
	14-22
	23-36
	(AA-FFF)
Carrier Frequency	45.75MHz
Sound IF Carrier Frequency	41.25MHz
Color Sub - Frequency	42.17MHz
WEIGHT	38 lbs
DIMENSIONS	

SERVICE PUBLICATION

#05-93

ELECTRICAL ADJUSTMENTS

1. BEFORE MAKING ELECTRICAL ADJUSTMENTS

Read and perform these adjustments when repairing the circuits or replacing electrical parts or PCB assemblies.

CAUTION

Use an isolation transformer when performing any service on this chassis.

Before removing the anode cap, discharge electricity because it contains high voltage

When removing a PCB or related component, alter unfastening or changing a wire, be sure to put the wire back in its original position.

Inferior silicon grease can damage IC's and transistors. When replacing IC's and transistors, use only specified silicon grease (YG6260M). Remove all old silicon before applying new silicon.

I-I: Prepare the following measurement tools for electrical adjustments

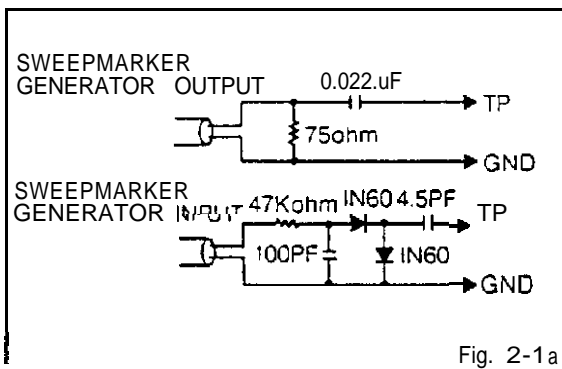
1. Sweepmarker Generator
2. Oscilloscope
3. Digital Voltmeter
4. Color Bar Generator

2. BASIC ADJUSTMENTS

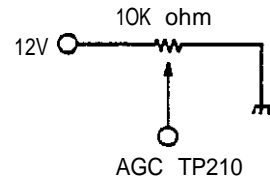
2-1: VIF AND AFT

NOTE

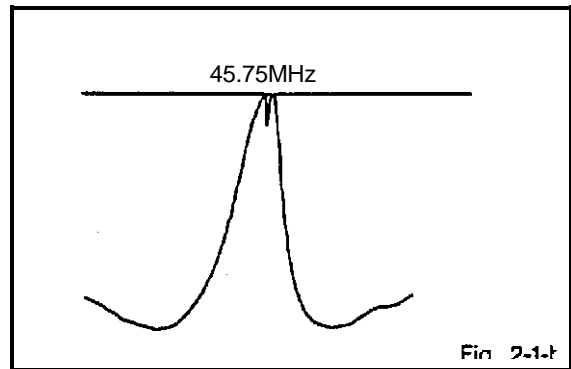
Connect input and output terminals of the sweepmarker generator to the circuit as shown in Fig. 2-1-a, then adjust it.



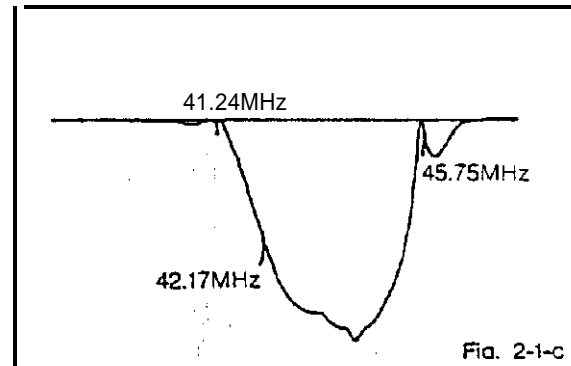
1. Connect output terminal of the sweepmarker generator to TP201. (Connect a 2.7K ohm resistor between them.)
2. Connect input terminal of the sweepmarker generator to TP204.
3. Connect a 10K ohm variable resistor to IF AGC terminal (TP210), 12V line and ground, then adjust to make the waveform of the oscilloscope readable.



4. Adjust L205 until the waveform marker (45.75MHz) becomes as shown in Fig. 2-1-b.



5. Disconnect output terminal of the sweepmarker generator from TP201, then connect it to TP of the tuner pack.
6. Adjust tuner pack coil until the waveform becomes as shown in Fig. 2-1-c.



7. Disconnect the 10K ohm variable resistor and 2.7K ohm resistor.
8. Disconnect input and output terminals of the sweepmarker generator.
9. Connect the AFT adjustment oscillator (45.75MHz) to TP, of the tuner pack through a 2.7K ohm resistor.
10. Connect the digital voltmeter to TP206.
11. Adjust L204 to find the point where the voltage of TP206 changes dramatically, and adjust to 4.5VDC at that point.

2-2: BRIGHT, AGC, TINT AND COLOR

On-Screen Display Adjustment

Insert the point of a straightened paper clip into the hole on the remote control marked with an arrow as shown in Fig. 2-2.

The adjustment mode display will appear as shown in Fig. 2-3.

ELECTRICAL ADJUSTMENTS

NOTE

Use the 1-7 keys on the remote control to Select the options show" in Fig. 2-3.
Press the 7 key to end the adjustments

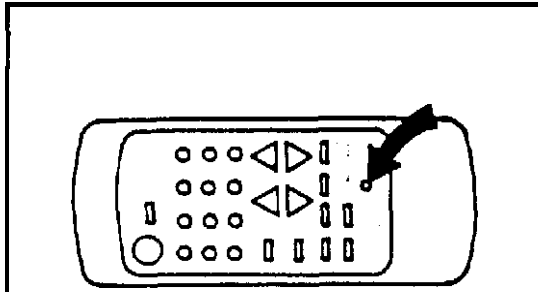


Fig. 2-2

ADJUSTMENT MODE

1. AGC/BRIGHT/TINT/COLOR AUTO
2. SUB BRIGHT AUTO
3. AGC MANUAL
4. COLOR MANUAL
5. TINT MANUAL
6. BRIGHT MANUAL
7. END

Fig. 2-3

2-2-A: BRIGHT

1. Receive the monochrome pattern
2. Activate the adjustment mode display and press the 6 key.
3. Press the VOL. UP/DOWN key on the remote control until 0% of gray scale will begins to lighten.

2-2-B. AGC

NOTE

Adjust after performing adjustments in section 2-1

In case of weak electric field.

1. Tune to a noisy channel.
2. Activate the adjustment mode display and press the 3 key.
3. Press the VOL. UP/DOWN key a" the remote control until noise is at minimum.
4. Change the channel. confirm other channels are normal.

In case of strong electric field.

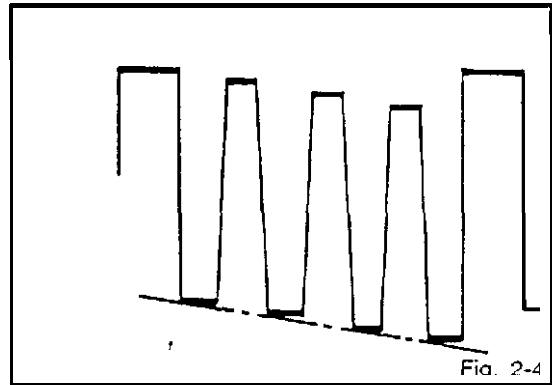
(Radio frequency interference can cause diagonal streaks to appear.)

1. Activate the adjustment mode display and press the 3 key.
2. Press the VOL. UP/DOWN key on the remote control until diagonal streaks are at minimum.
3. If there is still a problem after pressing the VOL. UP/DOWN key on the remote control. install an attenuator to the antenna terminals the" repeat step 1.

4. Confirm noise does not appear,
5. Change the channel. confirm other channels are 'normal.

2-2-C: TINT

1. Receive the color bar patter".
2. Using the remote Control. set the brightness and color to center position.
3. Using the remote control, set the contrast to maximum position.
4. Connect the oscilloscope to TPO23.
5. Activate the adjustment mode display and press the 5 key.
6. Press the VOL. UP/DOWN key a" the remote Control until the waveform becomes as show" in Fig. 2-4



2-2-D: COLOR

1. Receive the color bar patter",
 2. Using the remote control, set the brightness and tint to center position.
 3. Using the remote control, set the contrast to maximum position
 4. Connect the oscilloscope to TP022.
 5. Activate the adjustment mode display and press the 4 key.
 6. Adjust the VOLTS RANGE VARIABLE knob of the oscilloscope until the range between white 100% and 0% is set to 5 scales a" the Screen of the oscilloscope.
 7. Press the VOL. UP/DOWN key on the remote control until the red color level is set to the **4.75th scale (95%)** from while 0%.
- (Refer to Fig. 2-5)

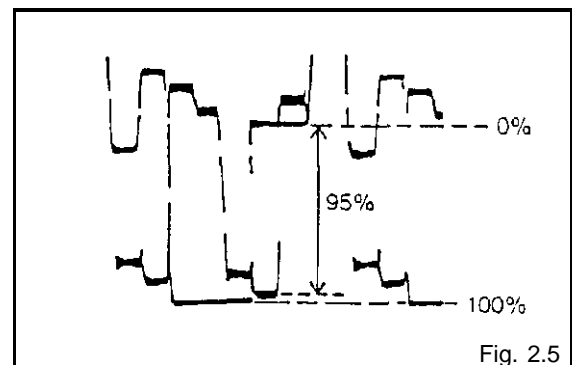


Fig. 2.5

4. Confirm red and blue colors
5. Adjust the slant of the deflection yoke while watching the screen, then tighten the fixing screw.

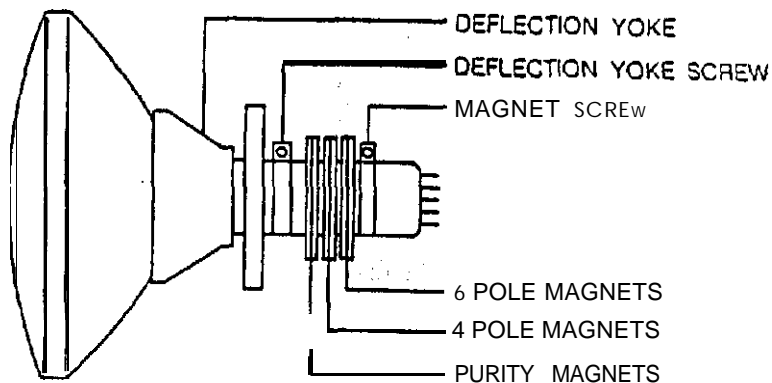
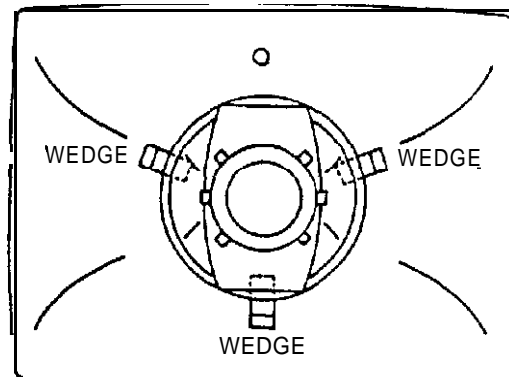


Fig. 3-1



WEDGE POSITION

Fig. 3-2-b

3-3: STATIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 3-2.

1. Receive the crosshatch pattern from color bar generator.
2. Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
3. Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.

3-4: DYNAMIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 3-3.

1. Adjust the differences around the screen by moving the deflection yoke upward/downward and right/left. (Refer to Fig. 3-2-a)
2. Insert three wedges between the deflection yoke and CRT funnel to fix the deflection yoke. (Refer to Fig. 3-2-b)

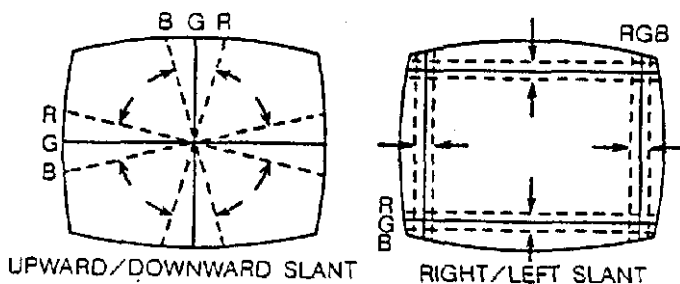
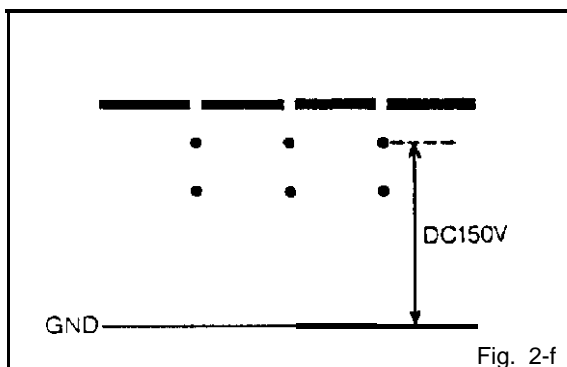


Fig. 3-2-e

ELECTRICAL ADJUSTMENTS

2-3: CUT OFF

1. Receive the color bar patter".
2. Using the remote control. set brightness and contrast to minimum position.
3. Connect the oscilloscope to ,TPO24.
4. Adjust the screen control until voltage is 150VOC.
(Refer to Fig. 2-6)



2-4: FOCUS

1. Receive the broadcasting signal.
2. Adjust the focus control until picture is distinct

2-5: VERTICAL SIZE

1. Receive the crosshatch patter" from the color bar generator.
2. Adjust the bright and contrast controls until the crosshatch patter" is distinct.
3. Adjust VA401 until the center of crosshatch is square.
4. Receive broadcasting signal, the" confirm picture is normal.

2-6: VERTICAL POSITION

1. Receive the color bar patter".
2. Using the remote control. set brightness and Contrast Lo maximum position.
3. Adjust the value of A429 and R430 until horizontal line of the color bar comes to approximate center of the CRT.

NOTE

Lessen the value of R430.....Picture will move about 5mm UP.

Lessen the value of R429.....Picture will move about 5mm DOWN.

R429 and R430 are fixed resistors. Use a variable resistor to determine the optimal value and insert that value resistor.

2-7: HORIZONTAL POSITION

1. **Receive** the color bar patter".
2. Using the remote control. set brightness and contrast to maximum position.
3. Adjust the value of R444 and C460 until the color width of both screen edges are equal.
4. Receive the broadcasting signal, the" confirm picture is normal.

NOTE

Lessen the value of R444.....Picture will move right.
Lessen the value of C460 ,.....Picture will move left.
R444 and C460 are fixed components. Use a variable resistor or capacitor to determine the optimal value and insert that value component.

3. PURITY AND CONVERGENCE ADJUSTMENT

NOTE

1. Turn the unit on and let it warm up for at least 30 minutes before performing the followiing adjustments.
2. Place the CRT surface facing east or west to reduce the terrestrial magnetism.
3. Turn ON the unit and demagnetize with a degauss Coil,

3-1: STATIC CONVERGENCE (ROUGH ADJUSTMENT)

1. Tighten the screw for the magnet. Refer to the adjusted CRT for the position.
(Refer to Fig. 3-1)
If the deflection yoke and magnet are in one body, untighten the screw for the body.
2. Receive the green raster patter" from color bar generator.
3. Slide the deflection yoke until it touches the funnel side of the CRT.
4. Adjust center of screen to green. with red and blue a" the sides, using the pair of purity magnets.
5. Switch the color bar generator from the green raster patter" to, the crosshatch pattern.
6. Combine red and blue of the 3 color crosshatch Patter" on the center of the screen by adjusting the pair of 4 pole magnets.
7. Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.
8. Adjust the crosshatch patter" to change to white by repeating steps 6 and 7.

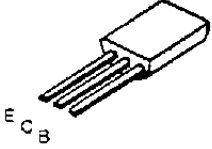
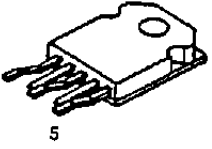
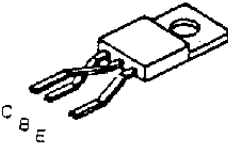
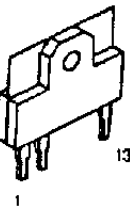
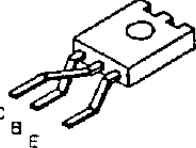
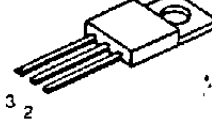
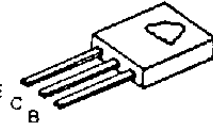
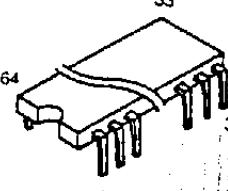
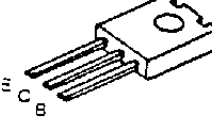
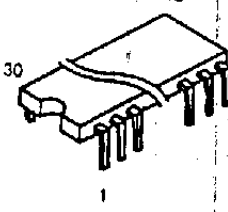
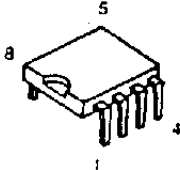
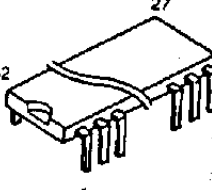
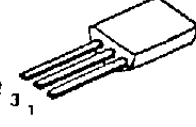
3-2: PURITY

NOTE

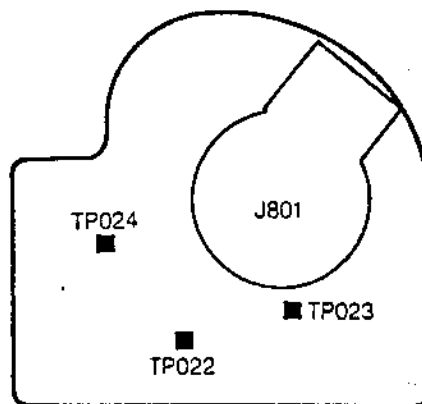
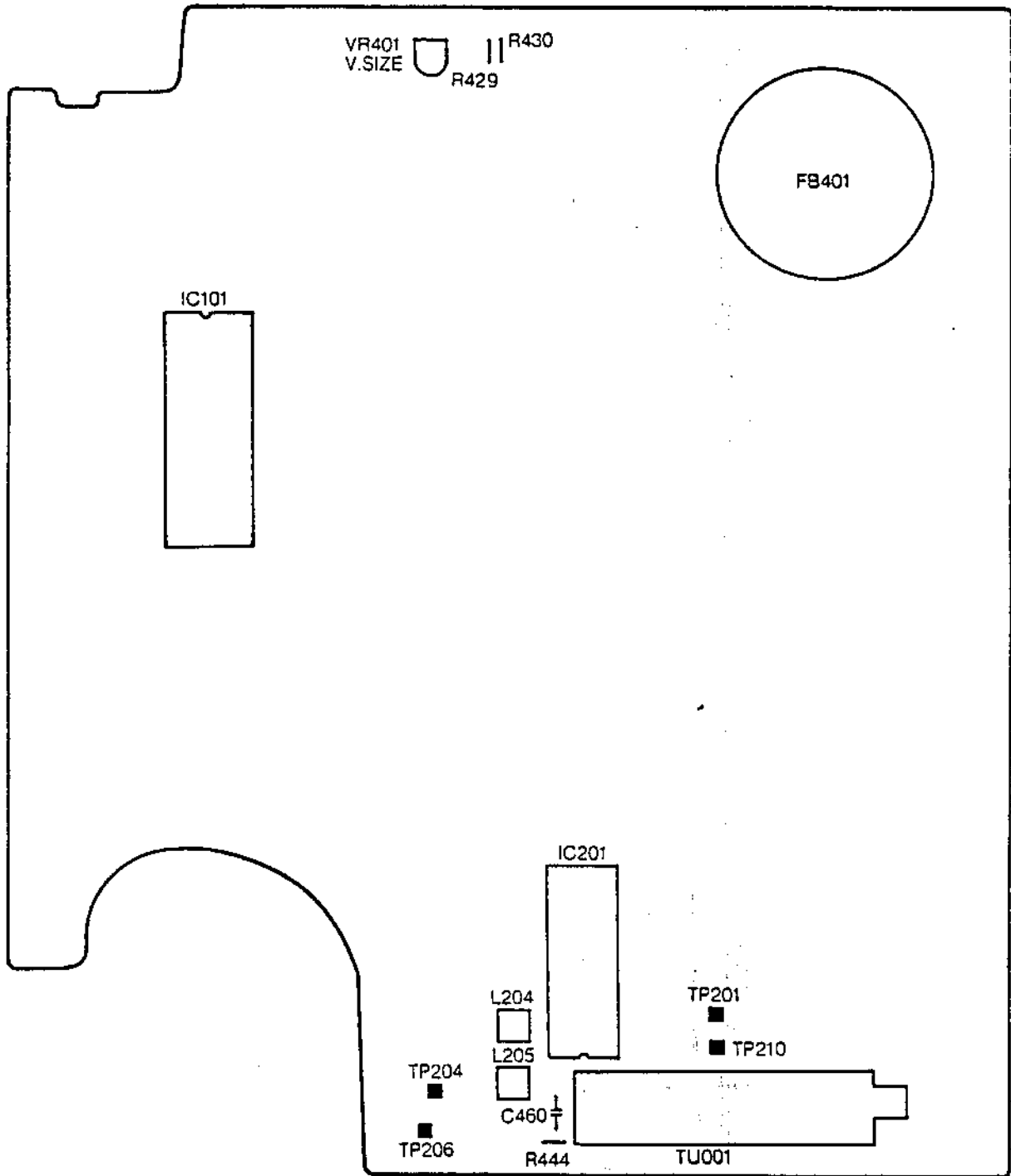
Adjust after; performing adjustments in section 3-1

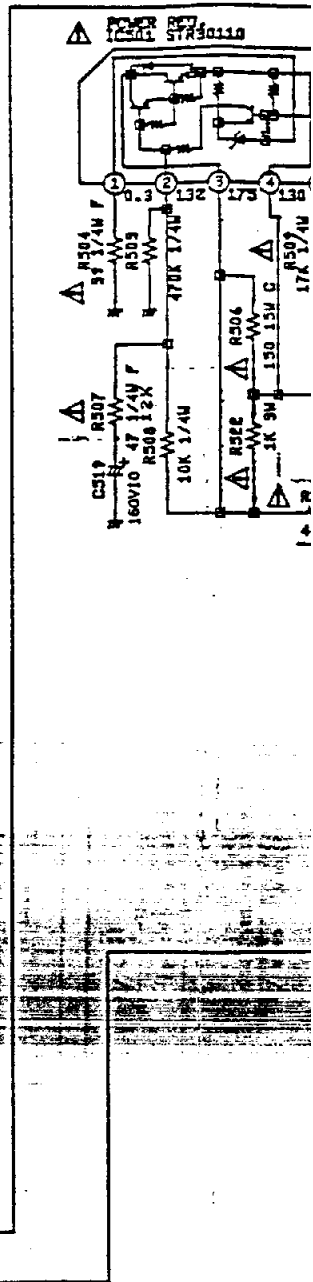
1. Receive the green raster patter" from color bar generator.
2. Adjust the pair of purity magnets to center the color on the screen.
Adjust the pair of purity magnets so the color at ends are equally wide.
3. Move the deflection yoke backward (to neck side) slowly, and Stop it at the position when the whole screen is green.

SEMICONDUCTOR BASE CONNECTIONS

ILLUSTRATION	DESCRIPTION	ILLUSTRATION	DESCRIPTION
	2SA952 2SC945 2SA733 2SA1624 2SD734		STR30110
	2SD2333		LA7837
	2SC4217		UPC78M09H
	2SC2621		OEC8044A
	2SC3902		TAB782N
	LE93C46S1		LA7671S
	UPC78L05		

MAJOR COMPONENTS LOCATION GUIDE



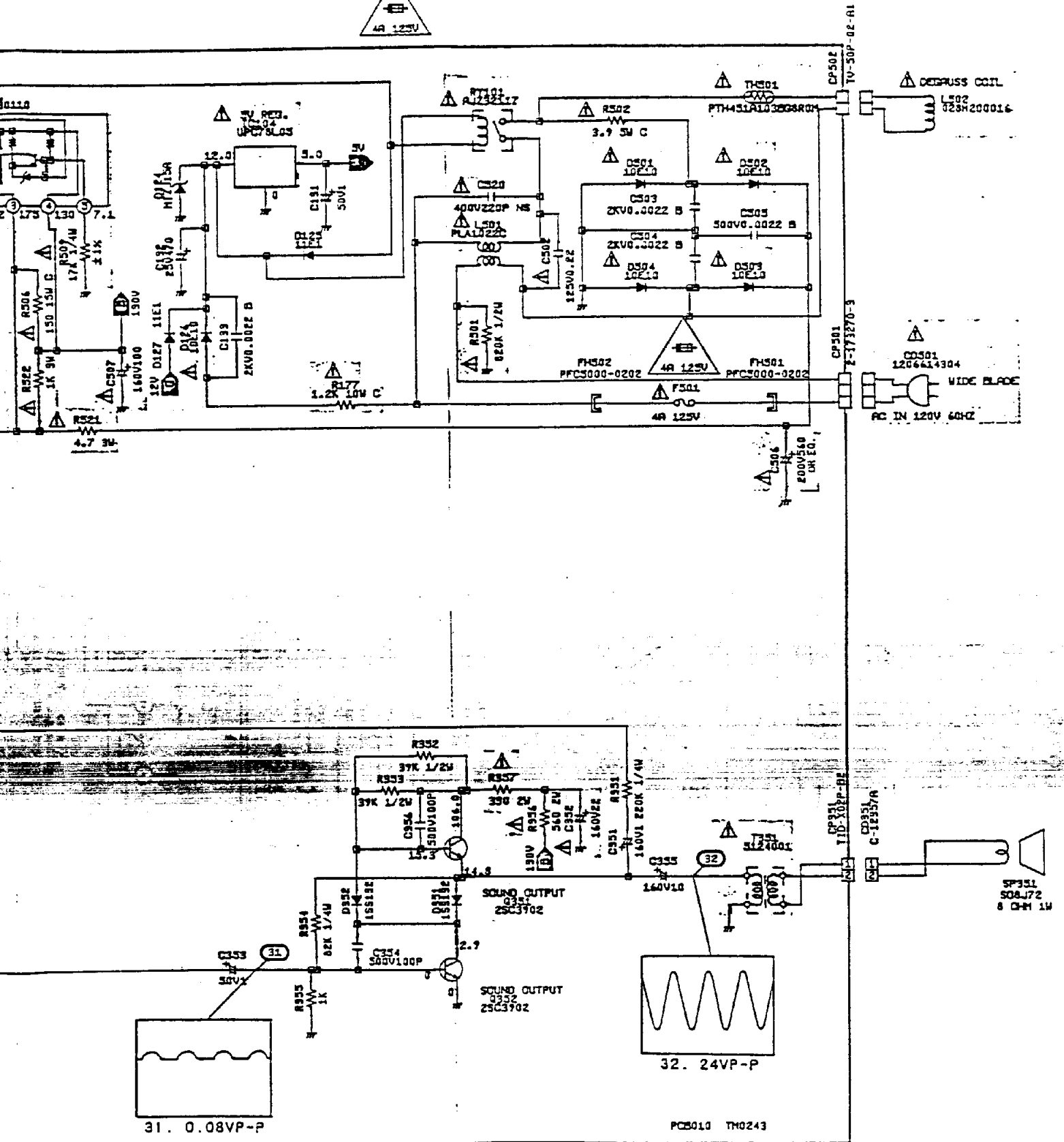


CAUTION: SINCE THESE PARTS MARKED BY Δ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED ON PARTS LIST ONLY.

NOTE: THIS OF PR

SCHEMATIC DIAGRAM

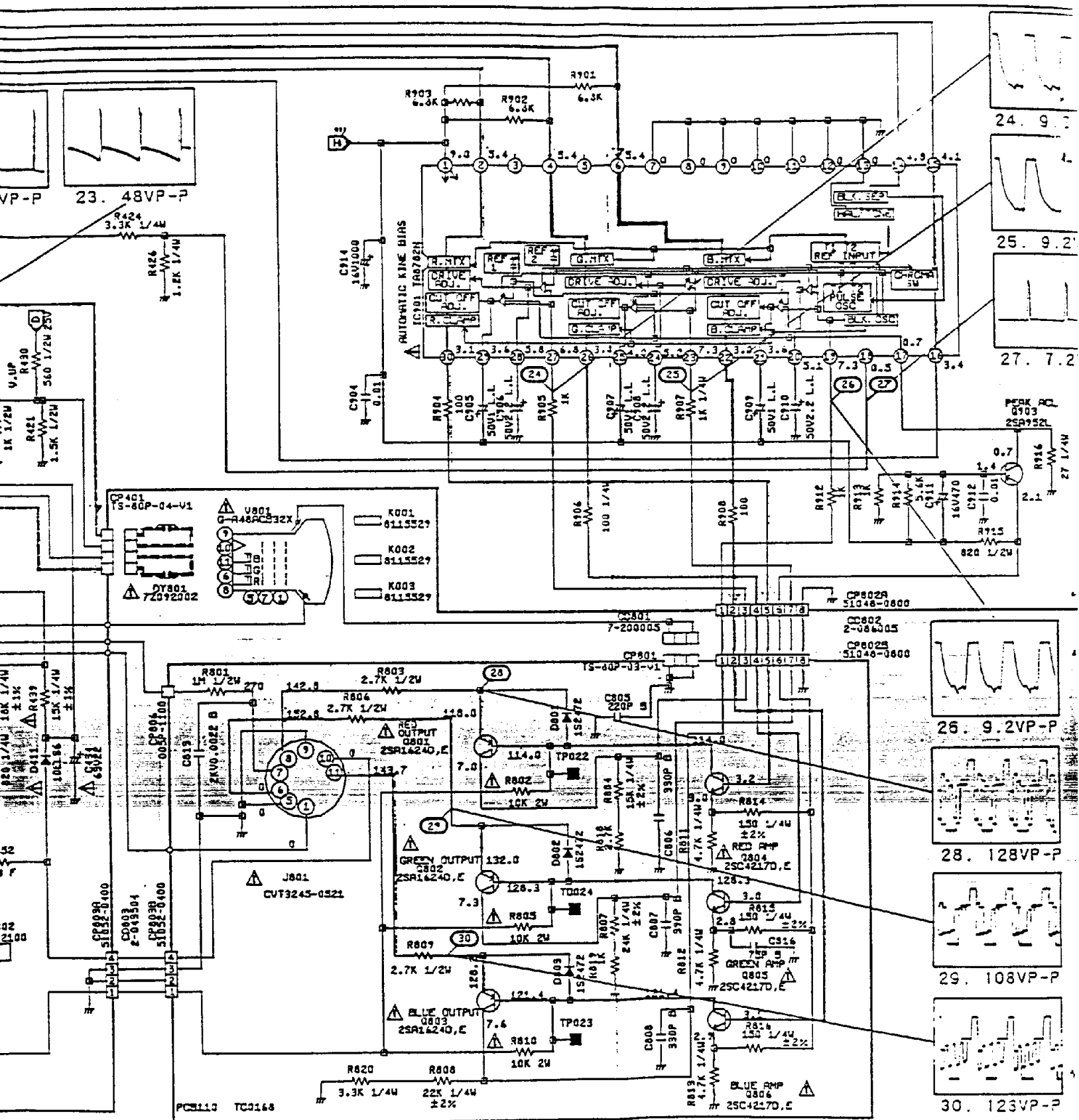
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE 4A 125V (CERAMIC) FUSE.



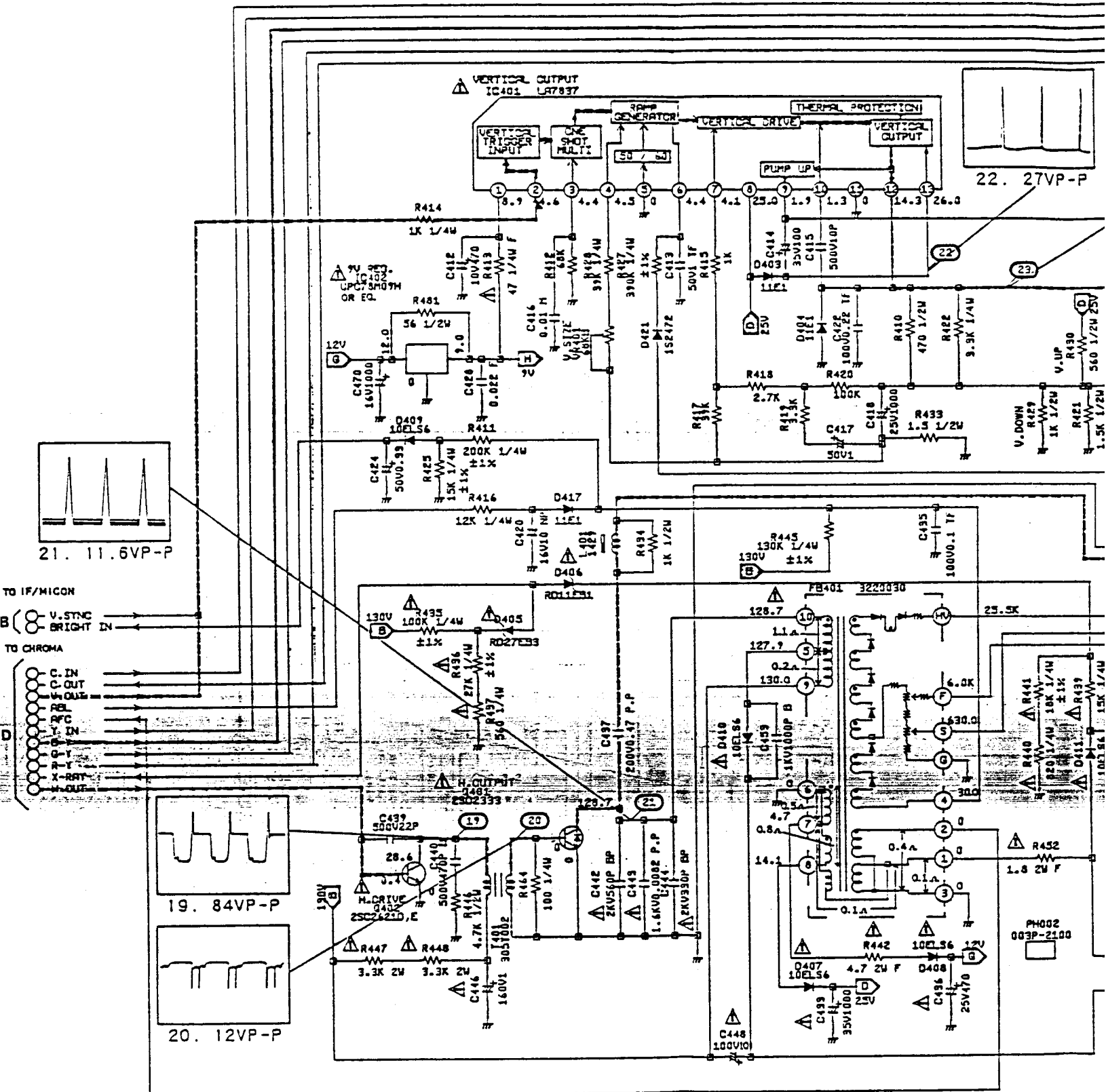
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

AUDIO SIGNAL

SCHEMATIC DIAGRAM

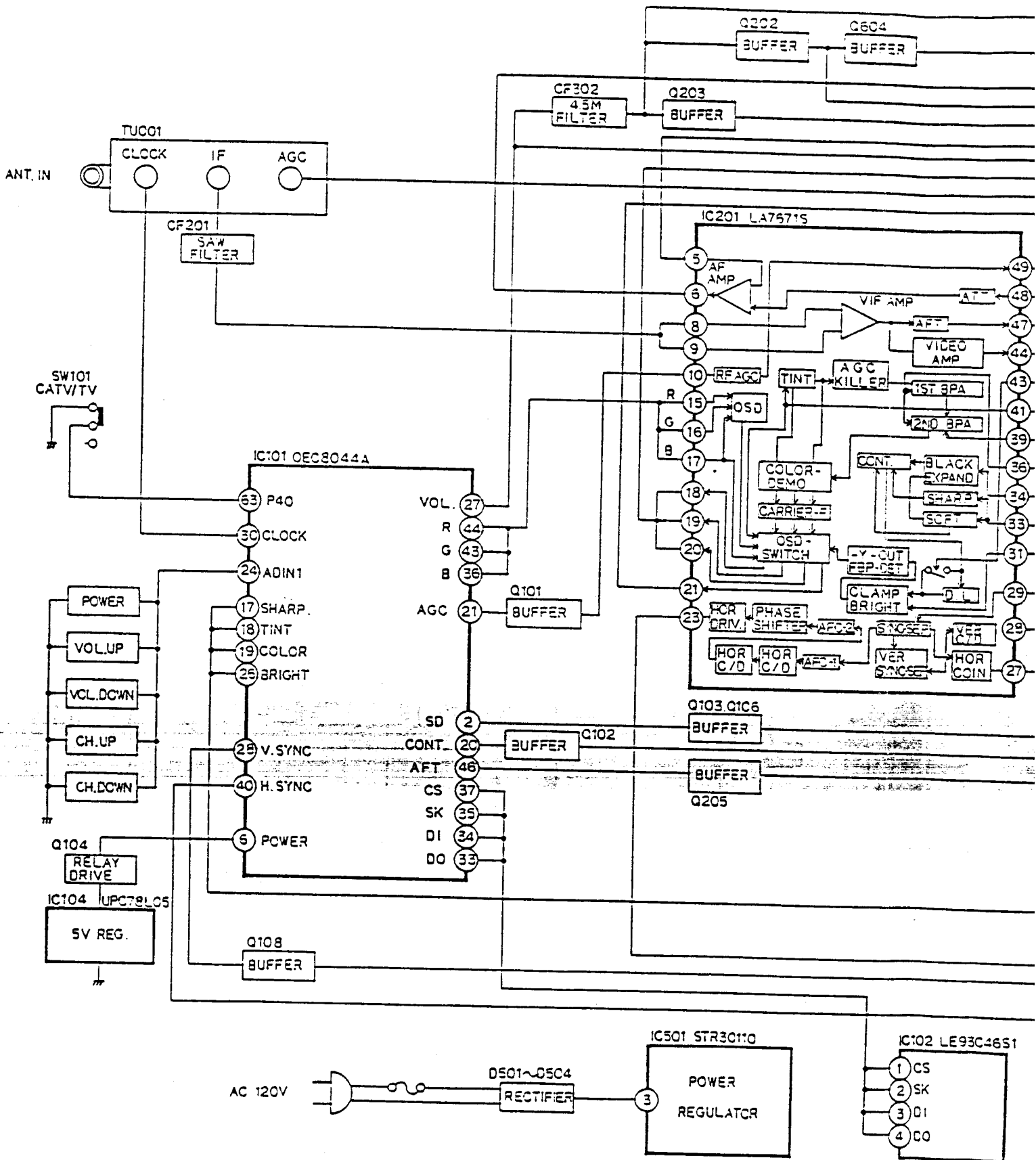


DEFLECTION SCHEM

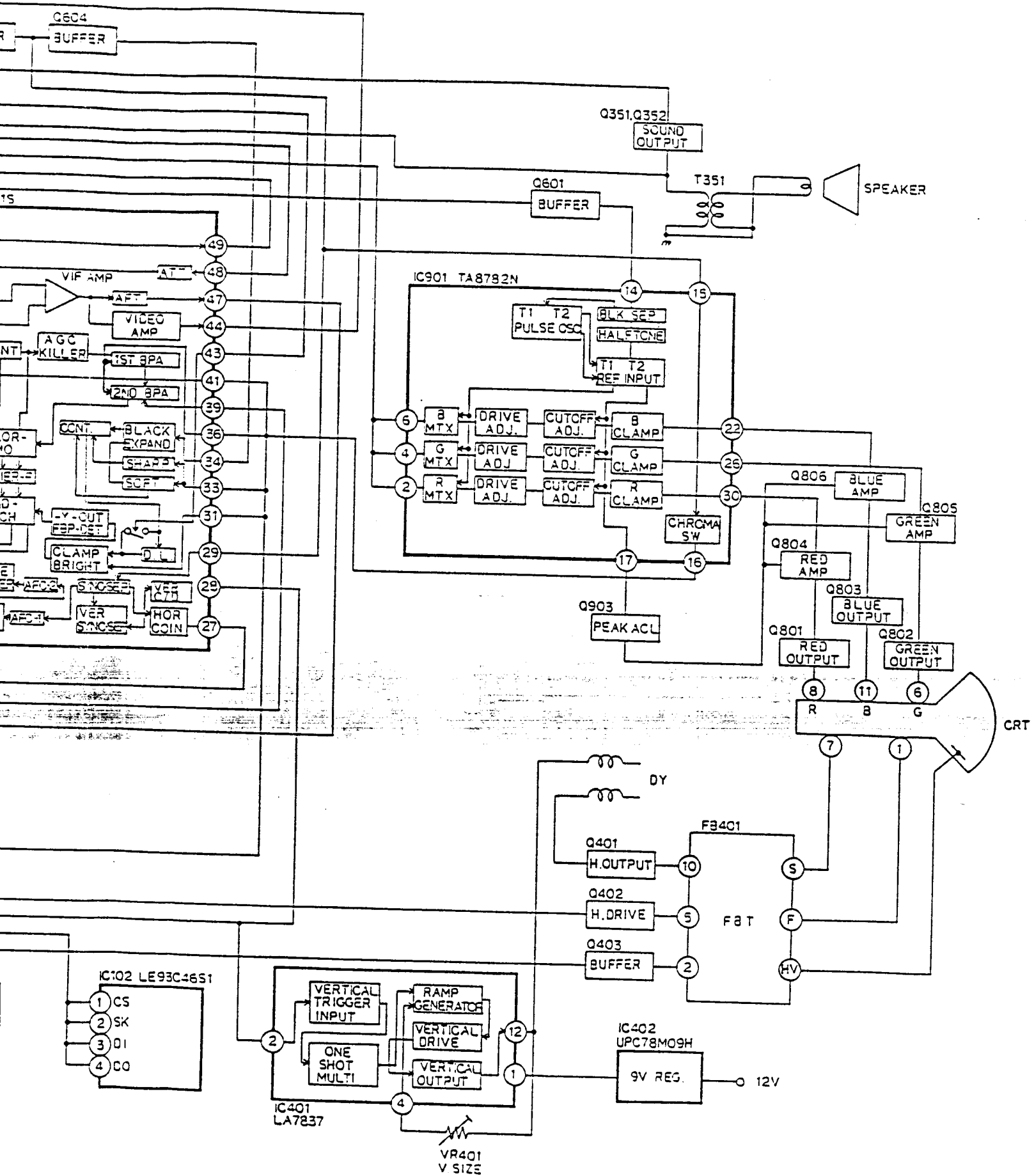


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BLOCK DIAGRAM

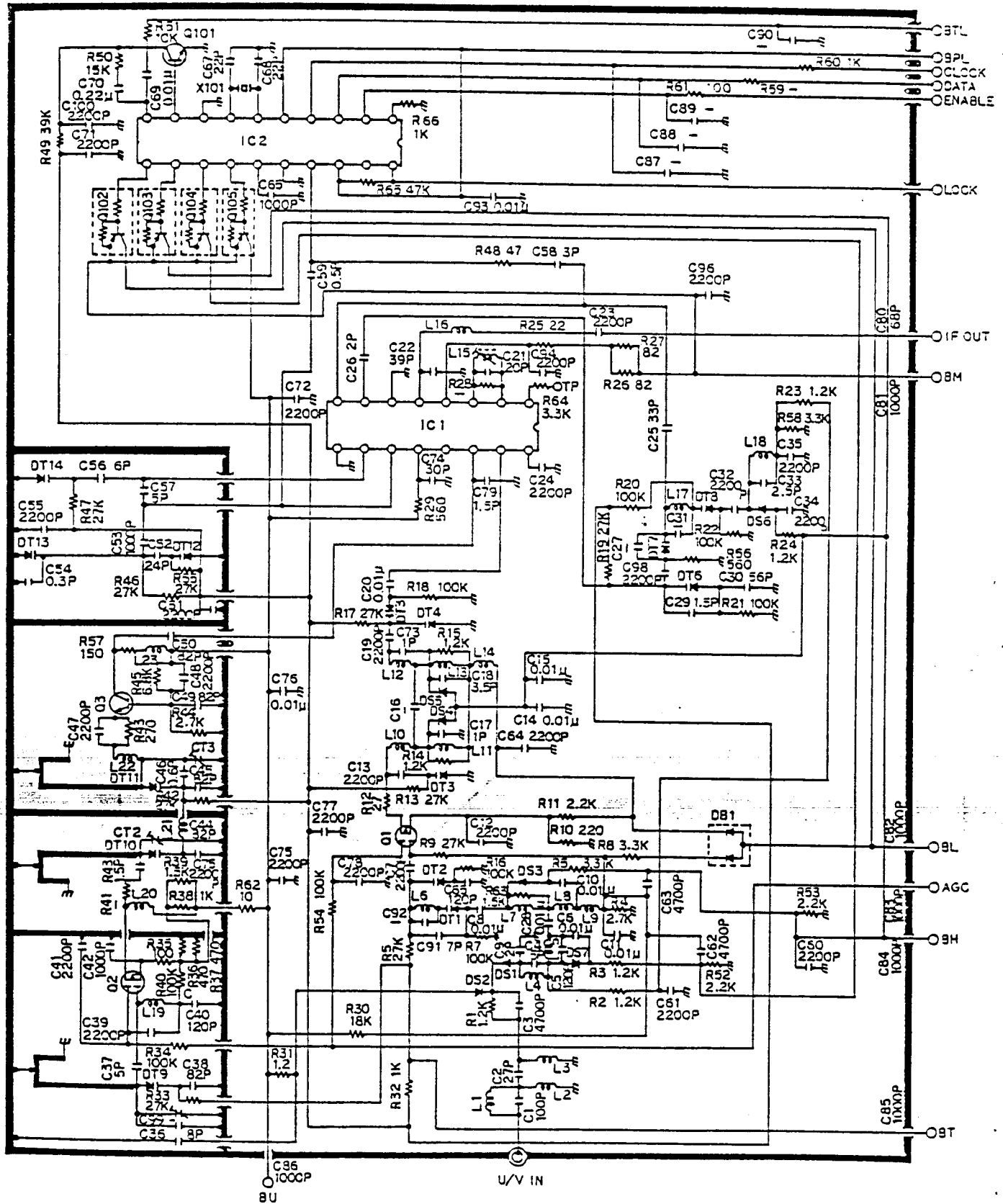


BLOCK DIAGRAM



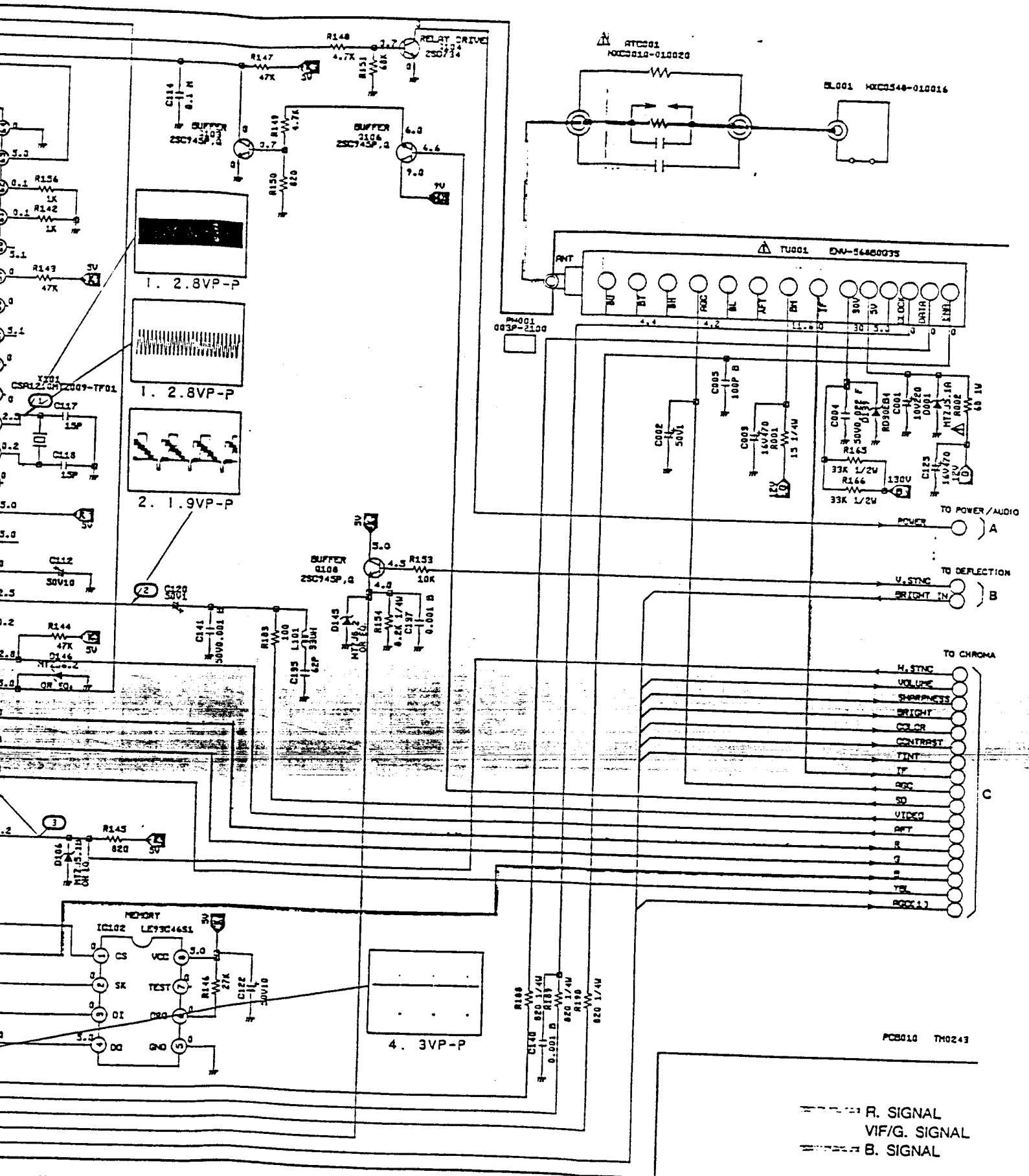
TUNER SCHEMATIC DIAGRAM

ENV-568ECG35



NOTE: Tuner parts are not available.
 When repairs are required, order a complete replacement tuner.

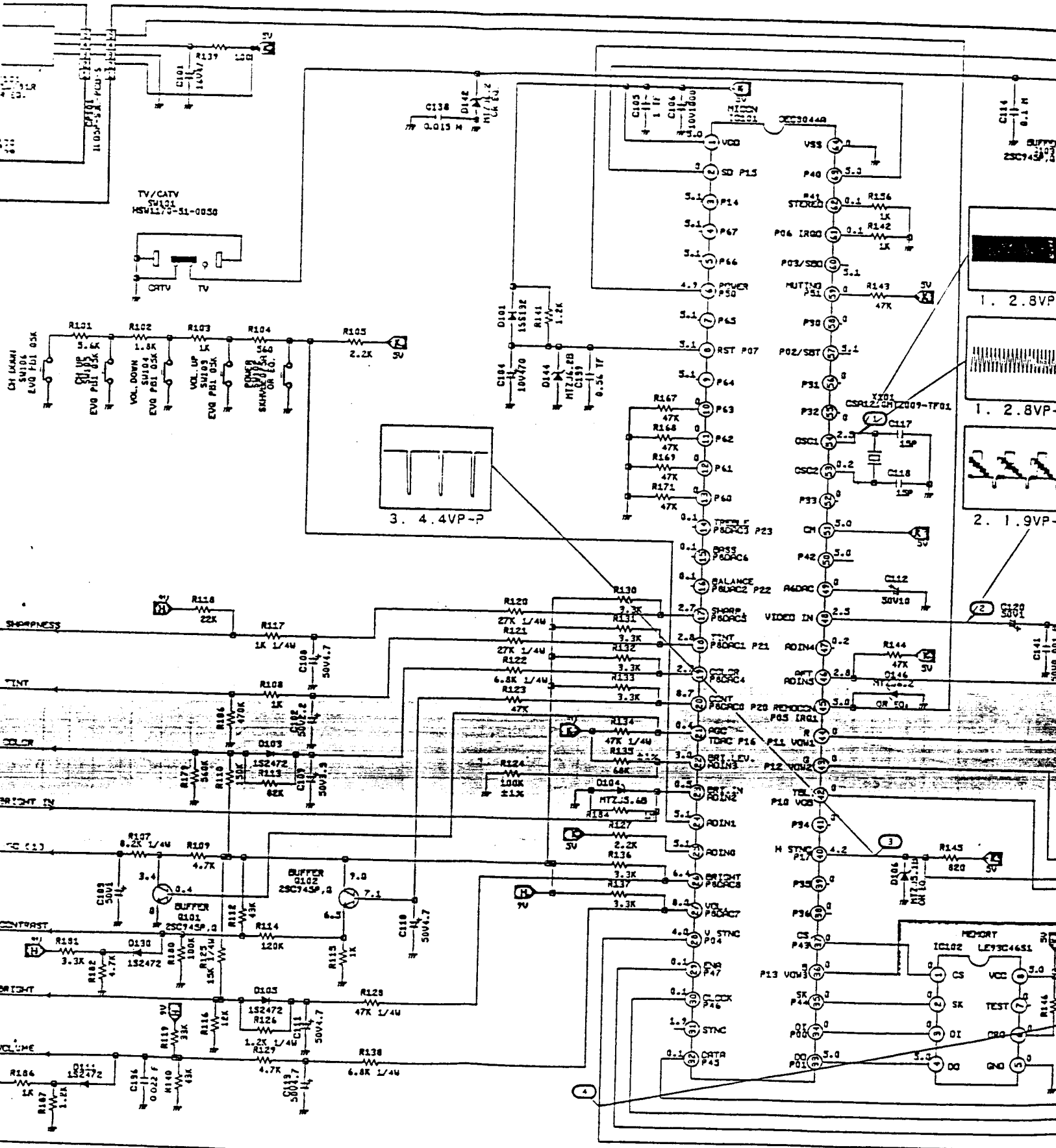
CHEMATIC DIAGRAM



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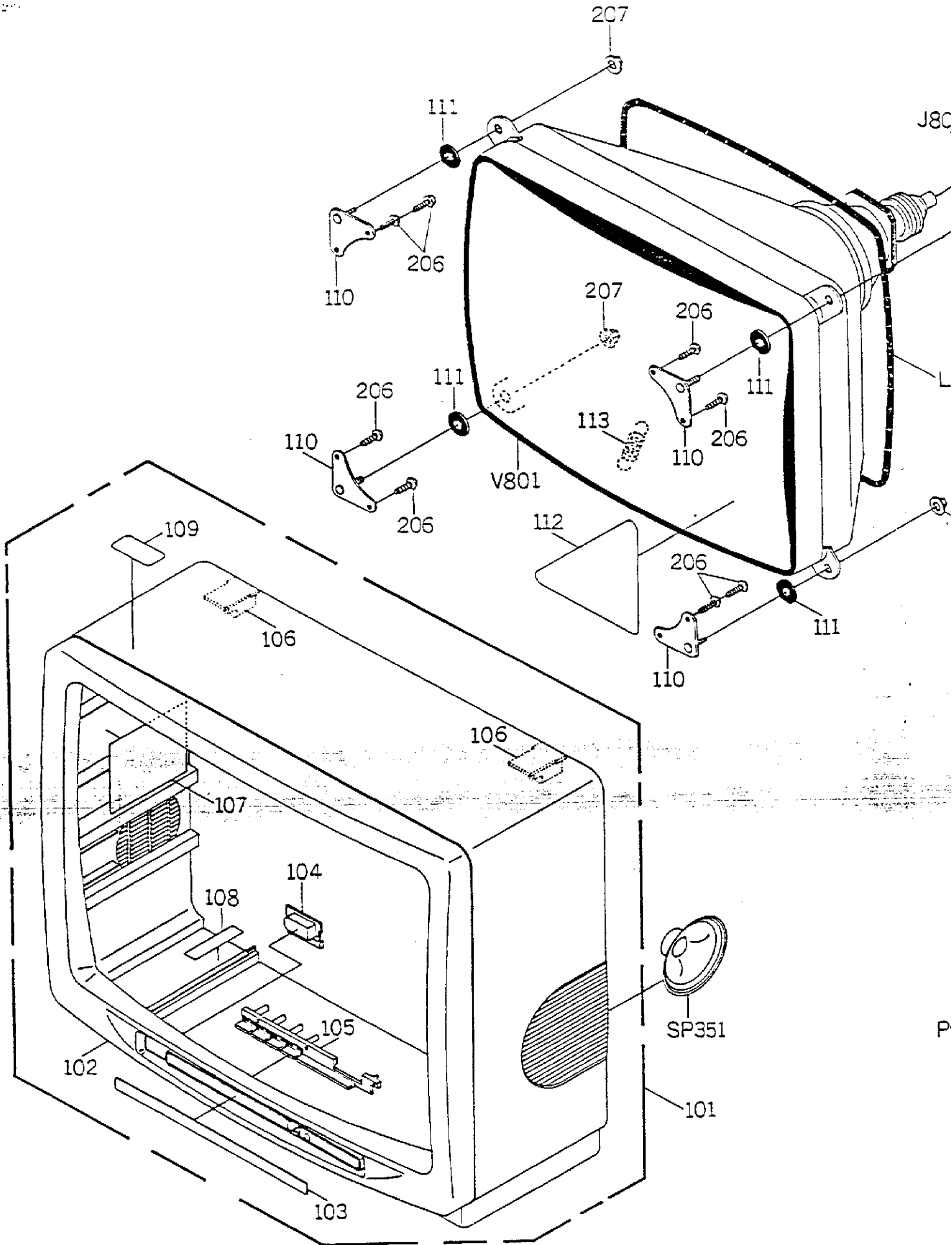
PCB010 TH0243
 R. SIGNAL
 VIF/G. SIGNAL
 B. SIGNAL

IF/MICON SCHEMATIC DIAGRAM

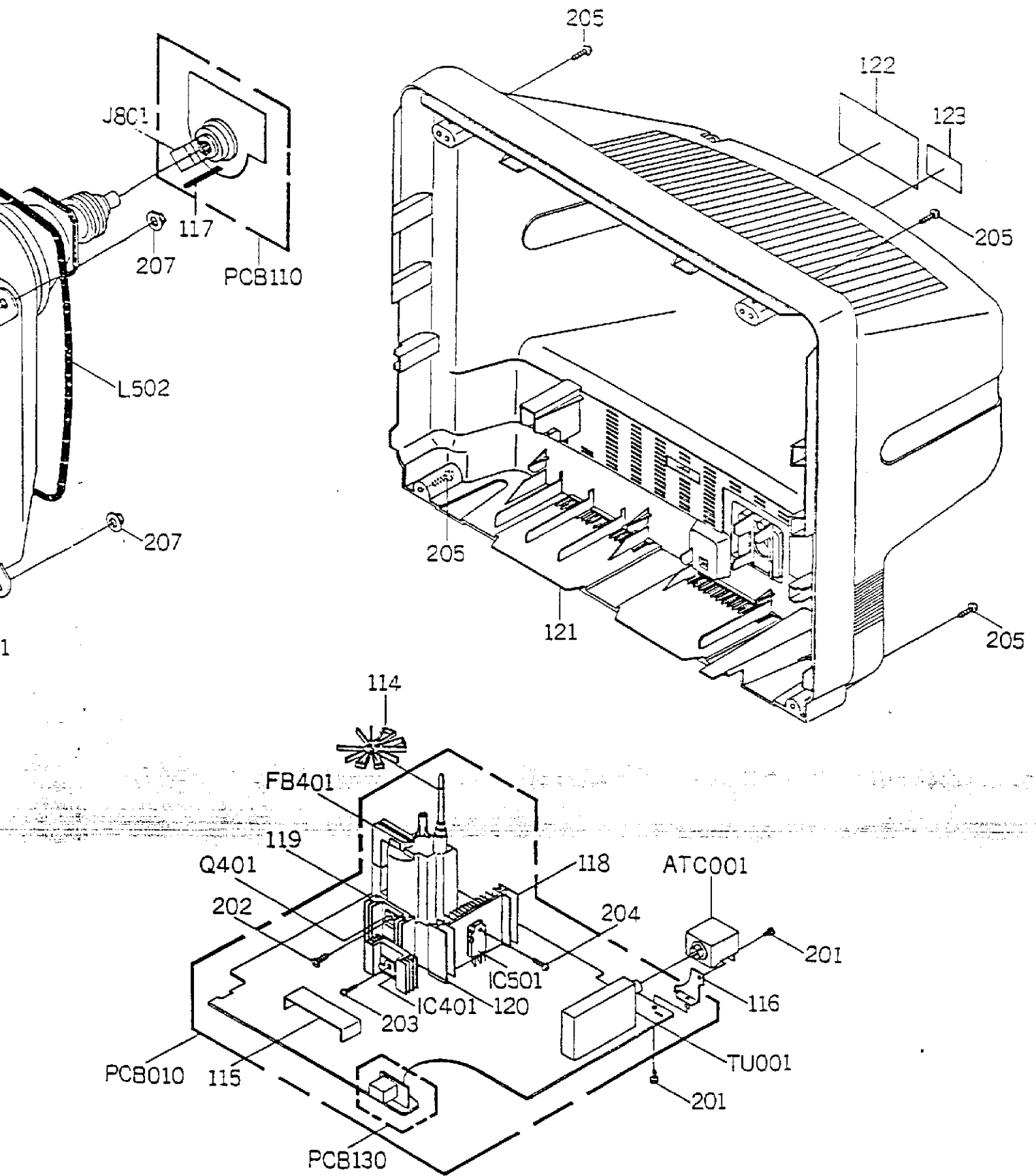


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NOTE: THIS SCHEMATIC DIAGRAM IS THE
 PROPERTY OF THE MANUFACTURER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.



ICAL EXPLODED VIEW



ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
RESISTORS			SEMICONDUCTORS (CONT.)		
R002	R311V1680J	R. METAL OXIDE 68 OHM 1W	D402	D1VT001320	DIODE, SILICON 1SS132T-77
R177	R5Y2CF122J	R. CEMENT 1.2K OHM 10W	D403	D28T011E10	DIODE, SILICON 11E1TA1
R188	R00104821J	RC 820 OHM 1/4W	D404	D28T011E10	DIODE, SILICON 11E1TA1
R189	R00104821J	RC 820 OHM 1/4W	D405	D92T027083	DIODE, ZENER RD27EB 3 TA11R
R190	R00104821J	RC 820 OHM 1/4W	D406	D92T011081	DIODE, ZENER RD11EB 1 TA11R
R356	R311VA561J	R. METAL OXIDE 560 OHM 2W	D407	D28T10ELS6	DIODE, RECTIFIER 1OELS6TA1
R357	R311VA331J	R. METAL OXIDE 330 OHM 2W	D408	D28T10ELS6	DIODE, RECTIFIER 1OELS6TA1
R413	R615U4470J	R. FUSE 47 OHM 1/4W	D409	D28T10ELS6	DIODE, RECTIFIER 1OELS6TA1
R423	R311VA103J	R. METAL OXIDE 10K OHM 2W	D410	D28T10ELS6	DIODE, RECTIFIER 1OELS6TA1
R435	R425T4104F	R. METAL 100K OHM 1/4W	D411	D28T10ELS6	DIODE, RECTIFIER 1OELS6TA1
R436	R425T4273F	R. METAL 27K OHM 1/4W	D412	D97U036018	DIODE, ZENER MTZJ36B T-77
R437	R001T4561J	RC 560 OHM 1/4W	D416	D1VT001320	DIODE, SILICON 1SS132T-77
R439	R425T4153F	R. METAL 15K OHM 1/4W	D417	D28T011E10	DIODE, SILICON 11E1TA1
R440	R001T4821J	RC 820 OHM 1/4W	D418	D1VT024720	DIODE, SILICON 1S2472T-77
R441	R425T4183F	R. METAL 18K OHM 1/4W	D419	D97U09R118	DIODE, ZENER MTZJ9.1B T-77
R442	R6158A4R7J	R. FUSE 4.7 OHM 2W	D421	D1V0024720	DIODE, SILICON 1S2472
R444	R00104153J	RC 15K OHM 1/4W	D501	D28T10E100	DIODE, SILICON 10E10-TA2B5
R447	R311YA332J	R. METAL OXIDE 3.3K OHM 2W	D502	D28T10E100	DIODE, SILICON 10E10-TA2B5
R448	R311YA332J	R. METAL OXIDE 3.3K OHM 2W	D503	D28T10E100	DIODE, SILICON 10E10-TA2B5
R452	R6158A1R8J	R. FUSE 1.8 OHM 2W	D504	D28T10E100	DIODE, SILICON 10E10-TA2B5
R501	R002T2824J	RC 820K OHM 1/2W	D602	D1VT001320	DIODE, SILICON 1SS132T-77
R502	R5Y2CD3R9J	R. CEMENT 3.9 OHM 5W	D651	D1VT024720	DIODE, SILICON 1S2472T-77
R504	R615U4390J	R. FUSE 39 OHM 1/4W	D801	D1VT024720	DIODE, SILICON 1S2472T-77
R506	R5Y2CG151J	R. CEMENT 150 OHM 15W	D802	D1V0024720	DIODE, SILICON 1S2472
R507	R611U4470G	R. FUSE 47 OHM 1/4W	D803	D1VT024720	DIODE, SILICON 1S2472T-77
R509	R425T4173F	R. METAL 17K OHM 1/4W	IC101	151D08044A	OEC8044A MICON
R521	R311VB4R7J	R. METAL OXIDE 4.7 OHM 3W	IC102	153D046S1J	LE93C46S1 MEMORY
R522	R311VB102J	R. METAL OXIDE 1.0K OHM 3W	IC104	102J98L050	UPCT8L05 5V REGULATOR
R802	R311VA103J	R. METAL OXIDE 10K OHM 2W	IC201	103DE76T1S	LA7671S VIF/SIF CHROMA DEFLECTION
R805	R311VA103J	R. METAL OXIDE 10K OHM 2W	IC401	103SD78370	LA7837 VERTICAL OUTPUT
R810	R311VA103J	R. METAL OXIDE 10K OHM 2W	IC402	10X398M090	UPCT8M09H 9V REGULATOR
R916	R0L1U4270J	RC 27 OHM 1/4W	IC501	1284901100	STR30110 POWER REGULATOR
			IC901	105DE87820	TA8782N AUTOMATIC KINE BIAS
CAPACITORS			Q101	TCLT009450	25C945A(C)-T(P,Q) BUFFER
C104	E0E701471M	CE 470 UF 10V	Q102	TCLT009450	25C945A(C)-T(P,Q) BUFFER
C105	P6M300105J	CMPL 1.0 UF 50V	Q103	TCLT009450	25C945A(C)-T(P,Q) BUFFER
C112	E0E705100M	CE 10 UF 50V	Q104	T03T007340	2SD734(E.F.G)-AA RELAY DRIVE
C139	P6M300564J	CMPL 0.56 UF 50V	Q106	TCLT009450	25C945A(C)-T(P,Q) BUFFER
C140	CHG080413K	CC 1000 PF 50V	Q108	TCLT009450	25C945A(C)-T(P,Q) BUFFER
C141	COJ080413K	CC 0.001 UF 50V YB	Q202	TCLT009450	25C945A(C)-T(P,Q) BUFFER
C206	E0E7F2222M	CE 2200 UF 16V	Q203	TCLT009450	25C945A(C)-T(P,Q) BUFFER
C352	E0E7TB220M	CE 22 UF 160V	Q205	TCLT009450	25C945A(C)-T(P,Q) BUFFER
C433	E0E7F4102M	CE 1000 UF 35V	Q351	TC30039020	25C945A(C)-T(P,Q) SOUND OUTPUT
C434	E0E7T5220M	CE 22 UF 63V	Q352	TC30039020	25C945A(C)-T(P,Q) SOUND OUTPUT
C436	E0ELT3471M	CE 470 UF 25V	Q401	TDKF023330	2SD2333-(RQ) H. OUTPUT
C437	P411A2474J	CMPP 0.47 UF 200V	Q402	TC30026210	25C2621(D.E)-RAC H. DRIVE
C442	CO1TBPT52K	CC 560 PF 2KV	Q403	TCLT009450	25C945A(C)-T(P,Q) BUFFER
C443	P412A9522H	CMPP 0.0082UF 1.6KV	Q601	TALT007330	2SAT33(C)-T(P,Q) BUFFER
C444	CO1TBPTL2K	CC 330 PF 2KV	Q604	TALT007330	2SAT33(C)-T(P,Q) BUFFER
C446	E0E7TB010M	CE 1 UF 160V	Q801	TA3T016240	2SA1624(D.E)-AA RED OUTPUT
C448	E0E7T8100M	CE 10 UF 100V	Q802	TA3T016240	2SA1624(D.E)-AA GREEN OUTPUT
C453	COJBB0513K	CC 0.001 UF 1KV YB	Q803	TA3T016240	2SA1624(D.E)-AA BLUE OUTPUT
C502	P2162B224M	CMP 0.22 UF AC125V	Q804	TC3F042170	25C4217(D.E)-RAC RED AMP
C506	E52CFC561M	CE 560 UF 200V	Q805	TC3F042170	25C4217(D.E)-RAC GREEN AMP
C507	E0E7FB101M	CE 100 UF 160V	Q806	TC3F042170	25C4217(D.E)-RAC BLUE AMP
C520	CA1030KH2M	CC 220 PF 400V AC	Q903	TALT00952L	25A952(C)-T L PEAK ACL
C624	CHG0SL4U1J	CC 68 PF 50V			
SEMI CONDUCTORS			COILS & TRANSFORMERS		
D001	D97U05R11A	DIODE, ZENER MTZJ5.1A T-77	L101	021JA6330K	COIL 33 UH
D101	D1VT001320	DIODE, SILICON 1SS132T-77	L202	021JA2R47M	COIL 0.47 UH
D103	D1VT024720	DIODE, SILICON 1S2472T-77	L203	021S05R91K	COIL 0.91 UH
D104	D97U05R61B	DIODE, ZENER MTZJ5.6B T-77	L204	033602030G	COIL, VIDEO IFT 3602030
D105	D1VT024720	DIODE, SILICON 1S2472T-77	L205	033602028G	COIL, VIDEO IFT 3602028
D106	D97U05R11B	DIODE, ZENER MTZJ5.1B T-77	L206	021JA6150K	COIL 15 UH
D111	D1VT024720	DIODE, SILICON 1S2472T-77	L301	021JA6220K	COIL 22 UH
D124	D97U01501A	DIODE, ZENER MTZJ15A T-77	L401	022J000008	COIL, LINEARITY 1429
D125	D28T011E10	DIODE, SILICON 11E1TA1	L501	029A000016	COIL, LINE FILTER AC PLA1022C
D126	D28T10E100	DIODE, SILICON 10E10-TA2B5	L502	028H200016	COIL, DEGAUSS 8H200016
D127	D28T011E10	DIODE, SILICON 11E1TA1	L602	021JA6220K	COIL 22 UH
D130	D1VT024720	DIODE, SILICON 1S2472T-77	L604	021JA6330K	COIL 33 UH
D139	D92T03008A	DIODE, SILICON RD30EB 4 TA11R	L605	021JA6101K	COIL 100 UH
D142	D97006R210	DIODE, ZENER MTZJ6.2 (A.B.C)	L607	021J96330K	COIL 33 UH
D144	D97U06R21B	DIODE, ZENER MTZJ6.2B T-77	T351	045124001V	TRANSFORMER, SOUND OUTPUT 5124001
D145	D97006R210	DIODE, ZENER MTZJ6.2 (A.B.C)	T401	03305Y002G	TRANS., HORIZONTAL DRIVE 305Y002
D146	D97006R210	DIODE, ZENER MTZJ6.2 (A.B.C)			
D351	D1VT001320	DIODE, SILICON 1SS132T-77			
D352	D1VT001320	DIODE, SILICON 1SS132T-77			
D401	D1VT001320	DIODE, SILICON 1SS132T-77			
			JACK		
J801	0666130012	SOCKET, CRT			CVT3245-0521

MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
101	A3C001A720	CABINET, FRONT ASS'Y	
102	T01APJ0043	CABINET, FRONT	
103	7230004778	PLATE, FRONT	
104	735APA0008	BUTTON, POWER	
105	735APA0007	BUTTON, CHANNEL/VOLUME	
106	709APA0001	CABINET, HOLDER	
107	7260000235	SHEET, CRT SERVICEMAN	
108	7260000251	SHEET, TRANSLESS CAUTION	
109	7230003875	FILM, INFORMATION	
110	762TSA0037	ANGLE, CRT	
111	800AR00002	SHEET, CRT SUPPORT	
112	7232560212	FILM, DECORATION	
113	741SUA0001	SPRING, EARTH	
114	755WPA0004	HOLDER, ANODE LEAD	
115	752SSA0008	SHIELD, IC	
116	761WSA0017	ANGLE, ATC UNIT	
117	----	COATING CLIP CP-1S 50MM	
118	----	HEAT SINK, POWER	
119	----	HEAT SINK	
120	----	HEAT SINK	
121	702APA0059	CABINET, BACK	
122	7222560585	SHEET, RATING	
123	7230004749	SHEET, UPC-A	
201	810A130504	SCREW/WASHER(A)	M3*5
202	8117D30804	SCREW, TAPPING(B0) WH8	3*8
203	8110630804	SCREW, TAP TITE(P) BRAZIER	3*8
204	8110630A04	SCREW, TAP TITE(P) BRAZIER	3*10
205	8117540A64	SCREW, TAPPING(B0) TRUSS	4*16
206	8117540B04	SCREW, TAPPING(B0) TRUSS	4*20
207	8300560004	SL NUT	M6
---	J3C00101	INSTRUCTION BOOK	
---	JEASTFA02	WARRANTY CARD	
---	JEASTFA36	ESP BROCHURE	
---	J3970443	ACCESSORY ORDER FORM	
---	7230004748	SHEET, BAR CODE	
---	791MHA0004	LAMIFILM BAG	
---	792AHA0030	PACKAGE, TOP	
---	792AHA0031	PACKAGE, BOTTOM	
---	793AC00271	GIFT BOX	

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
SWITCHES			
SW101	0510321028	HSW1170-51-0050	TV/CATV
SW102	0504U01T33	SKHVBE075A	POWER
SW103	0504101T32	EVQ PB1 05K	VOL UP
SW104	0504101T32	EVQ PB1 05K	VOL DOWN
SW105	0504101T32	EVQ PB1 05K	CH UP
SW106	0504101T32	EVQ PB1 05K	CH DOWN
VARIABLE RESISTOR			
VR401	V1H63U48T6	VR.SEMIFIXED	66KB V.SIZE
P. C. BOARD ASSEMBLIES			
PCB010	A3C001A01AZ1	PCB ASS'Y TM0243-Z1	MAIN
PCB110	A3C001A11A	PCB ASS'Y TC0168	CRT
PCB130	A3C001A13A	PCB ASS'Y TE0766	REMOCON
MISCELLANEOUS			
△ ATC001	0532400005	ANT. UNIT	NXC0010-010020
BL001	053W200026	PLUG-FJ	HXC0548-010016
CD351	06CK12357A	CORD. CONNECTOR	C-12357A
△ CD501	1206614304	CORD.AC	1206614304
CD801	127A200005	BRAIDED WIRE	7-200005
CD802	122Z086005	CORD. JUMPER	2-086005
CD803	122Z043504	CORD. CONNECTOR	2-043504
CF201	1027045RTA	FILTER.SAW	F032UTM
CF202	1011T4R507	FILTER.CERAMIC	EFC-T4R5MW3
CF301	1012T4R514	CERAMIC DISCRI.	CDA4.5ME42-TF21
CF302	1011T4R504	FILTER.CERAMIC	EFCT4R5Y55A
CF401	1002R50304	CERAMIC OSCILLATOR	CSB503F45
CP101	069H150209	CONNECTOR PCB SIDE	1LG5P-S3L-PCB-S
CP351	069W120019	CONNECTOR PCB SIDE	TID-X02P-B2
CP401	069W340018	CONNECTOR PCB SIDE	TS-80P-04-V1
CP501	0694430100	CORD.UX CONNECTOR	2-173270-3
CP502	069W420029	CONNECTOR PCB SIDE	TV-50P-02-A1
CP801	069W330018	CONNECTOR PCB SIDE	TS-80P-03-V1
CP806	069W010020	CONNECTOR PCB SIDE	005P-1100
CP802A	067R008019	WIRE HOLDER	51048-0800
CP802B	067R008019	WIRE HOLDER	51048-0800
CP803A	067R104019	WIRE HOLDER	51052-0400
CP803B	067R104019	WIRE HOLDER	51052-0400
△ DY801	027Z092002	DEFLECTION YOKE	7Z092002
△ F501	081DC04003	FUSE	4A 125V
FB401	043220030M	TRANSFORMER.FLYBACK	3220030
FH501	06760T0001	HOLDER.FUSE	PFC5000-0202
FH502	06760T0001	HOLDER.FUSE	PFC5000-0202
K001	129A000010	WEDGE	8115529
K002	129A000010	WEDGE	8115529
K003	129A000010	WEDGE	8115529
OS101	0779011004	REMOTE RECEIVER	GP1U781R
PH001	069W01001A	CONNECTOR PCB SIDE	003P-2100
PH002	069W01001A	CONNECTOR PCB SIDE	003P-2100
△ RY101	0560120108	RELAY	AJZ32117
SP351	070V131003	SPEAKER	S08J72
△ TH501	08R08G8R0M	DEGAUSS ELEMENT	PTH451A103B08R0M
TM101	076M056100	TRANSMITTER	R25-6800
△ TU001	0145S00035	TUNER.UHF-VHF	ENV-56880G3S
△ V801	092Z200411	COLOR PICTURE TUBE	G-A48AC832X
X101	1002T01201	C.OSCILLATOR	CSA12.0MTZ009-TF01
X601	100W357903	CRYSTAL HC-49/U	3.679545MHZ

RESISTOR

RC.....CARBON RESISTOR

CAPACITORS

CC.....CERAMIC CAPACITOR
 CE.....ALUMI ELECTROLYTIC CAPACITOR
 CP.....POLYESTER CAPACITOR
 CPP.....POLYPROPYLENE CAPACITOR
 CPL.....PLASTIC CAPACITOR
 CMP.....METAL POLYESTER CAPACITOR
 CMPL.....METAL PLASTIC CAPACITOR
 CMPP.....METAL POLYPROPYLENE CAPACITOR
 CST.....STYROL CAPACITOR