

TECHNICAL INFORMATION

■ CIRCUIT ANALYSIS

● MICRO PROCESSING CONTROL CIRCUIT [in MAIN PCB Ass'y]

• The microprocessor circuit of this model is composed mainly of a 64-pins control CPU (MN1872013JXR#) and non-volatile memory (MN12C261D).

The circuit functions are essentially the same as the AV-2780S and AV-3150S, except for slight differences in PIP and sound systems.

① CPU (Micro computer)

Pin No.	IN / OUT	Port name	Function	Pin No.	IN / OUT	Port name	Function
4	IN	ADIN0	AFT (S curve) control	34	IN	P42	Key scanning
5	IN	ADIN1	VSM service sw (service mode = GND)	35	IN	P41	Key scanning
6	IN	ADIN2	PLL lock detection (for tuner)	36	IN	P40	Key scanning (memory out)
7	OUT	P50	System constant A (DATA)	37	IN	ACIN	60Hz AC input (for timer setting)
8	OUT	P51	System constant B (CLOCK)	38	IN	SD	Sync. detection (H. sync signal)
9	OUT	P52	System constant C	39	OUT	VOB	On-screen display (background)
10	OUT	P53	System constant D	40	OUT	VOW3	On-screen display (B) (blue back : H)
11	OUT	P54	CLOCK (Tuner serial control)	41	OUT	VOW2	On-screen display (G)
12	OUT	P55	DATA (Tuner serial control)	42	OUT	VOW1	On-screen display (R)
13	OUT	P56	ENABLE (Tuner serial control)	43	OUT	TCI0	Audio muting (muting : H)
14	OUT	P57	Key scanning	45	OUT	P66	AGC muting
17	OUT	DAC0	VOLUME control	46	OUT	P65	Cable TV A/B switching < non using >
18	OUT	DAC1	TINT control	47	OUT	P64	Power on/off switching
19	OUT	DAC2	COLOR control	48	OUT	P63	Sub picture FREEZE on/off (off : H)
20	OUT	DAC3	PICTURE control	49	OUT	P62	Memory C3 (MODE)
21	OUT	DAC4	BRIGHT control	50	OUT	P61	Memory C2
22	OUT	DAC5	DETAIL control	51	OUT	P60	Memory C1
23	OUT	DAC6	BASS control	52	IN	RST	Reset
24	OUT	DAC7	TREBLE control	53	IN	IRQ1	Remote control signal (negative)
25	OUT	DAC8	BALANCE control	54	IN	H SYNC	H. sync. signal (for character generator)
26	OUT	DAC9	Composite / S-VIDEO switch (comp. : H)	55	IN	V SYNC	V. sync. signal (for character generator)
29	OUT	P47	TV / VIDEO switch < non using >	56	IN	IRQ0	Power stoppage detection
30	OUT	P46	TV / VIDEO switch (VIDEO : H)	57	OUT	SBD1	PIP on/off (off : H)
31	OUT	P45	MTS mode switching (monoral/stereo)	58	IN	SBT1	Compulink detection (detecting : L)
32	OUT	P44	MTS mode switching (MAIN/SAP)	59	OUT	SBD0	PIP position control
33	IN	P43	Key scanning	60	OUT	SBT0	PIP position control

※ Switching pin truth table (voltages)

TV / VIDEO input switching

Pin No. Mode	29 (P47)	30 (P46)
TV	0V	0V
VIDEO 1	5V	0V
VIDEO 2	0V	5V
VIDEO 3	5V	5V

• pin-29 : non using

MTS mode switching

Pin No. Mode	31 (P45)	32 (P44)
STEREO	0V	0V
SAP	0V	5V
MONO	5V	0V

PIP position control

Pin No. Mode	59 (SBD0)	60 (SBT0)
Lower right	5V	5V
Upper right	5V	0V
Upper left	0V	0V
Lower left	0V	5V

② MEMORY

Pin No.	IN / OUT	Port name	Function	Pin No.	IN / OUT	Port name	Function
1	IN	C3	Memory data (MODE)	13	IN	D01	Notch on/off (on : H)
3	OUT	OUT	Memory data (4-bits parallel)	14	IN	D00	VNR on/off (on : H)
4	OUT	D03	HYPER-BASS on/off (on : H)	15	IN	C1	Memory data (DATA)
5	OUT	D04	BIPHONIC on/off (on = H) <non using>	16	IN	C2	Memory data (CLOCK)
12	OUT	D02	On timer on/off (on : H)				

● IF · VIDEO · CHROMA · DEFLECTION PROCESSING CIRCUIT [in MAIN PCB Ass'y = IC201 : VC2024Z]

- A single chip IC and peripheral circuits perform video, chroma and deflection(except output stage) signal processing.
- The main IC functions are indicated below.

① Video (luminance) system

- Black level compensation
- Delay line (for luminance only)
- 3.58MHz trap (notch)
- Contour compensation (delay line aperture control)
- DC restoration
- Pedestal clamp
- Adjustments (DETAIL, PICTURE, BRIGHT)

② Chroma system

- 3.58MHz Band pass amplifire (BPA)
- Built-in filter response adjustment (switching)
- ACC
- Color killer
- Color synchronizer (PLL detection)
- Color demodulaton (R-Y, G-Y, B-Y)
- Adjustments (COLOR, TINT)

③ Sync. and deflection system

- Synchronization separator (horizontal / vertical)
- Horizontal and vertical oscillators (countdown system, non-adjustment)
- Horizontal pre-drive
- Horizontal AFC

④ Other

- On-screen switch & drive
- Horizontal / vertical blanking

●DIGITAL VIDEO PROCESSING CIRCUIT

[PIP(PICTURE IN PICTURE) PCB Ass'y & PIP INTERFACE PCB Ass'y]

- The normal analog video signal is sent to a circuit that includes ENCODER, DECODER, A/D CONVERTER, MEMORY, D/A CONVERTER and MEMORY CONTROLLER. Digital processing is performed and picture in picture function produces two pictures.

The basic circuit composition is the same as the AV-3290S and AV-3590S, except for only the PIP function. Therefore, only the differing points are indicated below. Refer to the AV-3590S SERVICE MANUAL (No.50341, issued August 1990) regarding other sections.

The circuit block diagram is shown in Fig. A.

●IC011

In event the sub picture is absent, without an input, or noisy, video muting is applied to produce a black screen. The detection signal(muting signal) is produced by this IC. The function operates by dividing the sub picture video signal and detecting presence or absence of synchronization signal.

●IC012

If the sub picture signal is absent or without an input, due to the lack of synchronization signal in the sub picture, quivering or vertical roll can occur in the main picture. This circuit produces a still sub picture even in absence of an input signal. The main picture signal(synchronization signal) is switched and sent to the sub synchronization input of the memory controller. The circuit operates by detecting the video muting signal sent from IC011 when the sub picture signal is absent.

●IC013

In order to produce a completely black picture when the video muting signal from IC011 indicates absence of a sub picture input signal, the internal switches operate to mute Y, R-Y and B-Y.

●IC008, IC009

Clock oscillator for memory controller read-in and write-in. Provided in order to avoid operating error due to weak or deteriorated input signals.

●IC004, IC005

A/D converter and D/A converter. Include built-in multiplexers required during input and output (input : for R-Y and B-Y, output : for Y).

●IC1821 [MAIN PCB Ass'y]

Normally, if the PIP mode is set while viewing the antenna(TV) input picture, the video input signal appears as the sub picture. However, if nothing is connected to the video input when setting the PIP mode, the antenna input signal also appears in the sub picture. This circuit switches and routes the antenna input signal to the video input so that it appears in the sub picture during the PIP mode.

●IC1861 [MAIN PCB Ass'y]

This circuit normally operates to switch to the TV and video input video signals. During PIP, it operates to interchange(SWAP) the main and sub pictures and switch to the sub picture input mode.

●IC8251 [PIP INTERFACE PCB Ass'y]

When equipment is connected to S-VIDEO IN, this circuit switches automatically from composite video Y/C signal to separate Y/C signals via S-VIDEO IN.

Switch states in various modes (MAIN = TV, SUB : VIDEO (composite) input)

MODE \ IC	MAIN PCB ASS'Y		PIP I/F PCB ASS'Y	PIP PCB ASS'Y			
	IC821	IC861	IC221	IC001	IC010	IC012	IC013
PIP operation	ON	V	V	MAIN or SUB	MAIN or SUB	SUB	ON
S-VIDEO input	↑	↑	Y/C	↑	↑	↑	↑
SWAP operation	↑	TV	TV	↑	↑	↑	↑
SUB picture input absent	↑	V	V	↑	↑	MAIN	OFF (MUTE)
Normal (PIP = OFF)	OFF	V	V	—	—	—	—

※ ↑ = same as above

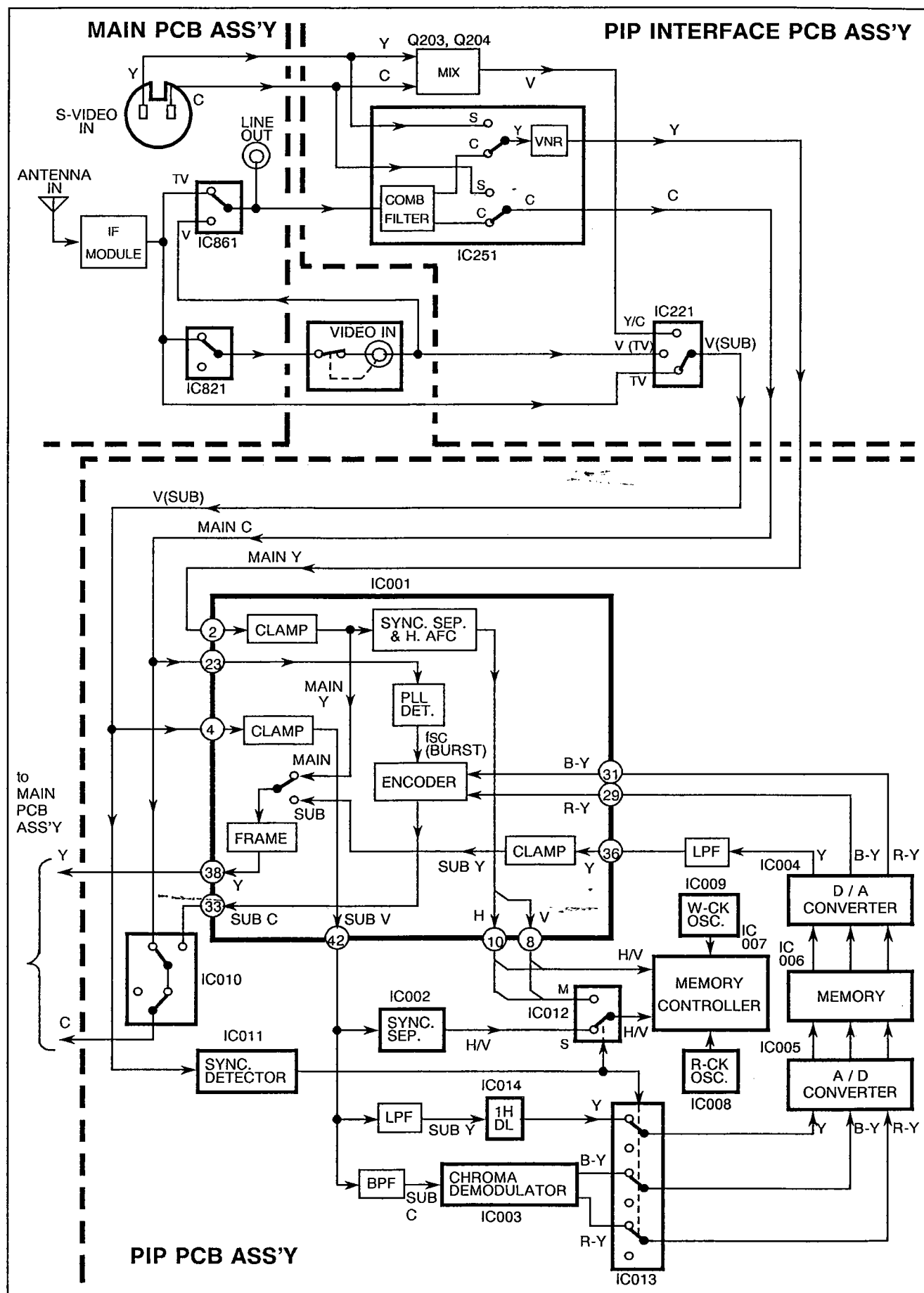


Fig. A PIP UNIT BLOCK DIAGRAM

SPECIFIC SERVICE INSTRUCTIONS

■ DISASSEMBLY PROCEDURE

● REMOVING THE REAR COVER

- Check that the power cord is disconnected from the outlet.
- 1. Take out 11 screws ① indicated in Fig. 1.
- 2. Disconnect the power cord from the rear cover and pull the cover outward to remove it.
- ※ When reinstalling the rear cover, carefully push it inward after inserting the main chassis into the rear cover groove.

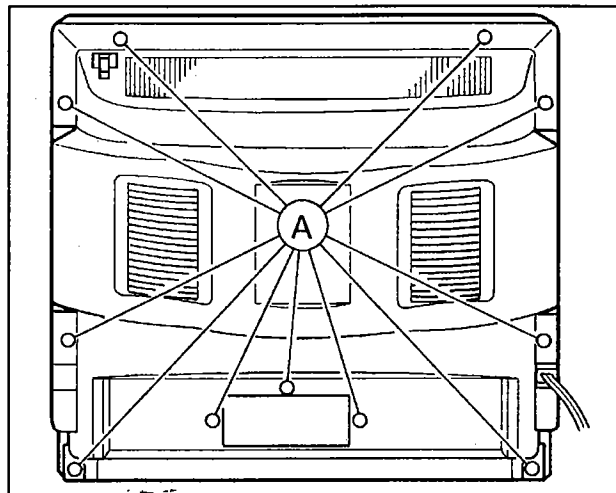


Fig. 1

● MAIN CHASSIS EXTRACTION

- Remove the rear cover.
- 1. Slightly raise the chassis and pull it outward (Fig. 2).
- ※ Disengage wire clamps as required.

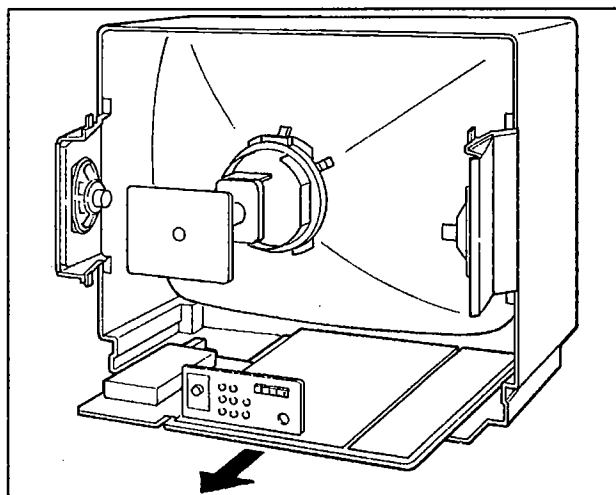


Fig. 2

● REMOVING THE SPEAKERS

- Remove the rear cover.
- 1. Take out 2 screws ② indicated in Fig. 3.
- 2. Take out 4 screws ③.
- ※ Fig. 3 indicates only the right speaker. Remove the left speaker in the same manner.
- ※ When installing the speaker grille, use care to properly engage the grooves with the cabinet.

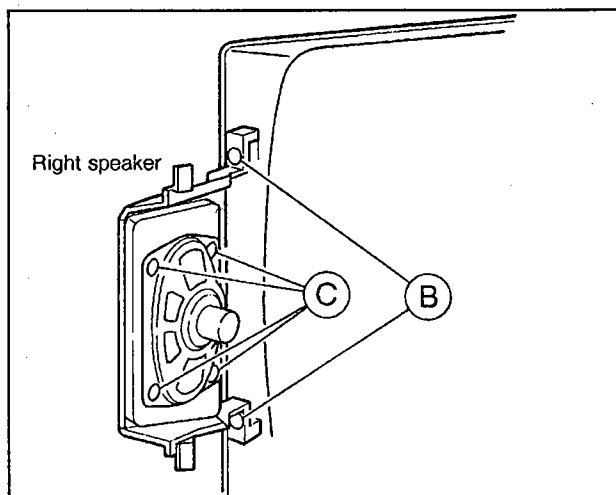


Fig. 3

●REMOVING THE MTS PCB ASS'Y

- Remove the rear cover.
- 1. Pull the MAIN PCB Ass'y outward and unsolder the connections indicated in Fig. 4.

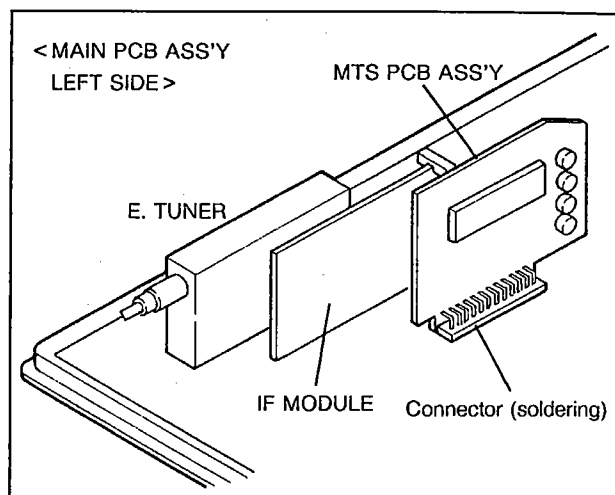


Fig. 4

●REMOVING THE PIP UNIT

- Remove the rear cover.
- 1. Pull out the main chassis. Take out 3 screws ① indicated in Fig. 5, pull the unit outward and raise it to remove.

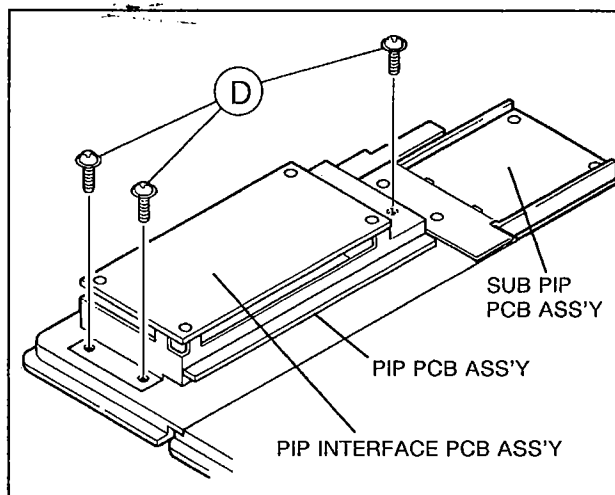


Fig. 5

●SETTING UP THE MAIN CHASSIS FOR CHECK & REPAIR

- Remove the rear cover.
- 1. Stand the set on the PIP unit side as indicated in Fig. 6. Disengage wire clamps and connectors as required.
- ※ During energized checks, use paper or other insulation to prevent contact between the MAIN PCB Ass'y and CRT SOCKET PCB Ass'y or other energized components.

●WIRE CLAMPING AND CABLE TIES

- Be sure to clamp the wire.
- Never remove the cable tie used for tying the wires together.
- Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

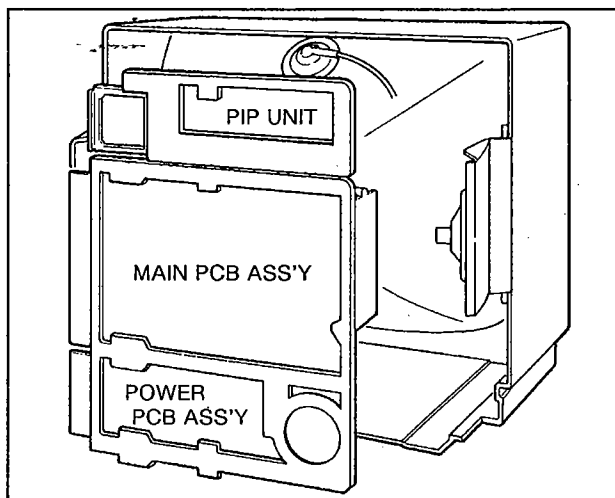


Fig. 6

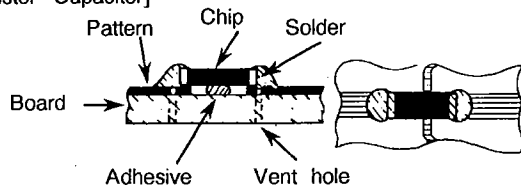
REPLACEMENT OF CHIP COMPONENTS

- CHIPS ARE NOT USED ON CERTAIN MODELS. REFER TO THE DESCRIPTIONS ON THIS PAGE ONLY WHEN WORKING ON MODELS ON WHICH CHIPS ARE EMPLOYED.

Replacement of the chip on printed circuit board can be performed easily as follows.

1 When mounted

[Resistor · Capacitor]

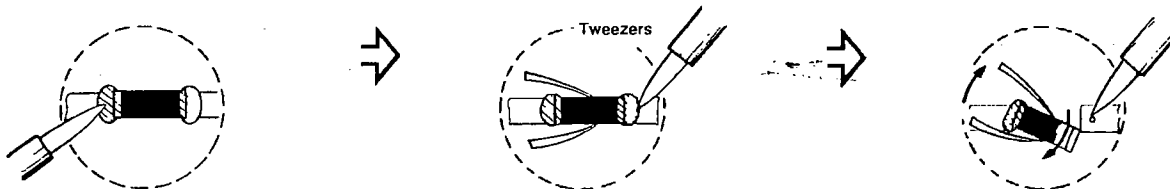


2 Removal of the chip

(1) Remove either of the soldered contacts.

(2) Hold the chip with tweezers and remove the other contact.

(3) Work the chip free from the adhesive with tweezers.

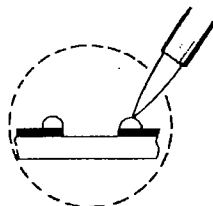


3 Preheating and soldering of chip pieces

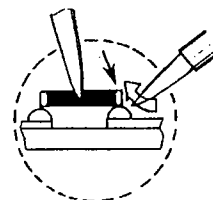
Be sure to preheat chip pieces (except the transistor) especially the capacitor before soldering with hot air, about 150°C (hair dryer or such can be used) for about 2 minutes. Then, immediately solder with an iron of about 30W.

4 Replacing the chip pieces

(1) Apply the solder to the board first.



(2) Hold the chip with tweezers and solder it in place, hold the iron at a 45° angle when soldering.

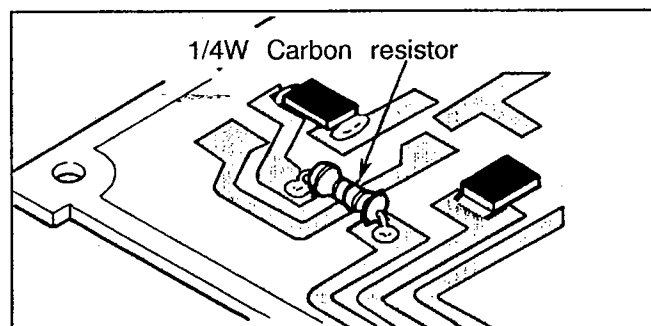


- Discrete parts can be substitutionally mounted as shown in the figure on the right.

Mounting is also possible by passing the wires from the board front side (parts side) through the chip soldering hole (vent hole of registration part).

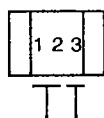
Substitute parts are as follows.

- Chip Metal Glaze Resistor
→ Carbon Resistor 1/4W ± 5%
- Chip Ceramic Capacitor
→ Ceramic Capacitor 50V ± 5%



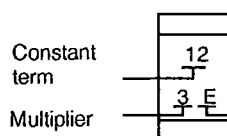
- Decoding of chip parts constant terms

< Chip Metal Glaze Resistor >



Constant Multiplier term
 $12 \times 10^3 = 12000\Omega$
 $= 12k\Omega$

< Chip Ceramic Capacitor >



Constant term
Multiplier

$12 \times 10^3 = 12000pF$
 $= 0.012\mu F$


K, M, Z, P Tolerance of ordinary type

C, P, R, S, T, U Temperature coefficient of temperature compensation type

AV-2771S_(US) STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2. SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1) Input signal : Color bar signal
 - (2) Setting positions of each knob/button and variable resistor : Original setting position when shipped
 - (3) Internal resistance of tester : DC 20k Ω /V
 - (4) Oscilloscope sweeping time : H \Rightarrow 20 μ S/div
: V \Rightarrow 5mS/div
: Others \Rightarrow Sweeping time is specified
 - (5) Voltage values : All DC voltage values
- * Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3. INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the P.C. board : R1209 \rightarrow R209

4. INDICATIONS ON THE CIRCUIT DIAGRAM

(1) Resistors

• Resistance value

- No unit : [Ω]
- K : [K Ω]
- M : [M Ω]

• Rated allowable power

- No indication : 1/6[W]
- Others : As specified

• Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflamable resistor
- FR : Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2) Capacitors

• Capacitance value

- 1 or higher : [pF]
- less than 1 : [μ F]

• Withstand voltage

- No indication : DC50[V]
- Others : DC withstand voltage[V]
- AC indicated : AC withstand voltage[V]

* Electrolytic Capacitors

47/50[Example]: Capacitance value[μ F]/withstand voltage[V]





• Type

- No indication : Ceramic capacitor
- MY : Mylar capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

(3) Coils



- No unit : [μ H]
- Others : As specified

(4) Power Supply




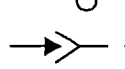
-  : B1(129.3V)
-  : B2(12V)
-  : 9V
-  : 5V

* Respective voltage values are indicated.




(5) Test Point

-  : Test point
-  : Only test point display



(6) Connecting method

-  : Connector
-  : Board in connector
-  : Wrapping or soldering
-  : Receptacle

(7) Ground symbol

-  : LIVE side ground
-  : NEUTRAL side ground
-  : EARTH ground

5. NOTE FOR REPAIRING SERVICE







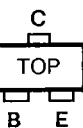
This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE (primary : ) side GND and the NEUTRAL (secondary : ) side GND. Therefore, care must be taken for the following points.

- (1) Do not touch the LIVE side GND or the LIVE side GND and the NEUTRAL side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2) Do not short between the LIVE side GND and NEUTRAL side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and NEUTRAL side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

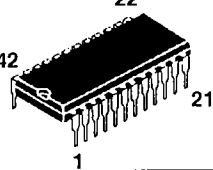
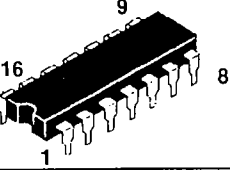
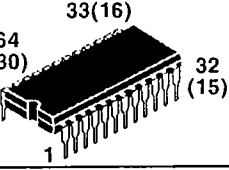
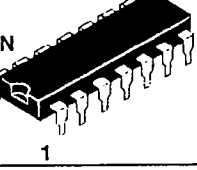
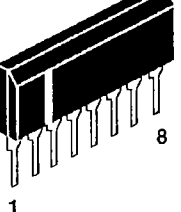
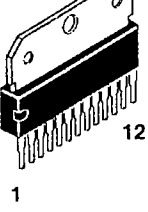
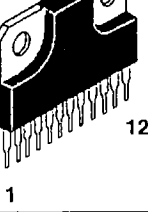
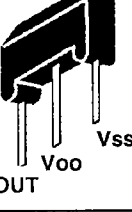




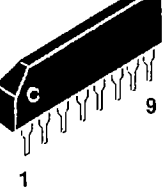
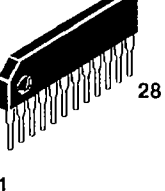
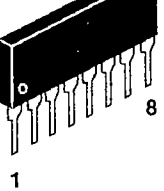
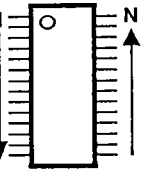
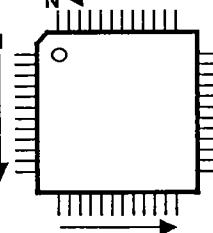
◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

SEMICONDUCTOR SHAPES

TRANSISTORS

 <p>2SC2785(JH)-T 2SA933S(QR)-T 2SC1740S(QR)-T 2SC1740S(R)-T 2SC1740S(Q)-T</p>	 <p>2SA673(C)-T 2SB774(RS)-T 2SC1959(Y)-T 2SC1815(YG)-T 2SA1015(YG)-T 2SC2878(B)-T</p>	 <p>2SC2655(Y)-T</p>	 <p>2SD1266A(QP)</p>
 <p>2SC3271(NP)-C1</p>	 <p>2SD1555-C1</p>	 <p>2SA1022(BC)-W 2SC2778(BC)-W</p>	

ICs

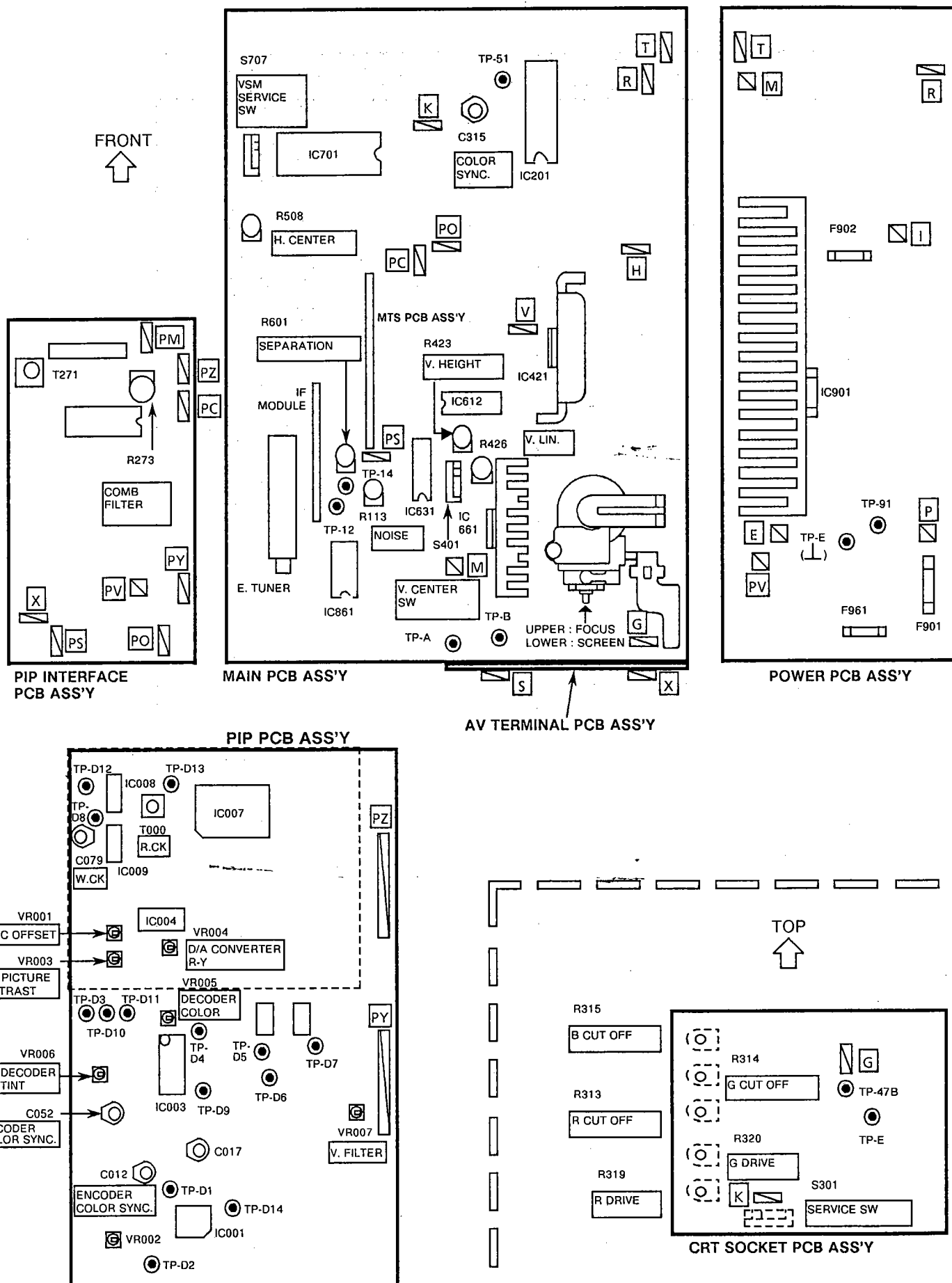
 <p>CXA1124AS</p>	 <p>MN12C261D</p>	 <p>MN1872013JX3 VC2024Z</p>	 <p>M51320P M52005P TDA3810 TDA1526</p>
 <p>M51497L</p>	 <p>TA8432K</p>	 <p>MC13500T2</p>	 <p>MN1280-K</p>
 <p>AN7809F</p>	 <p>UPC2405HF</p>	 <p>TA78L005AP-Y</p>	 <p>STR30130</p>
 <p>LA7952</p>	 <p>M5M4C500L-10</p>	 <p>XRA15218N NJM2245L</p>	
 <p>M51271FP-W MC74HC4053F-W CXL5504M-W M52684AFP-W SN74HC157NS-W M74HC02FP-W M52686AFP-W</p>	 <p>M50541FP M51285BFP</p>		

CHANNEL CHART

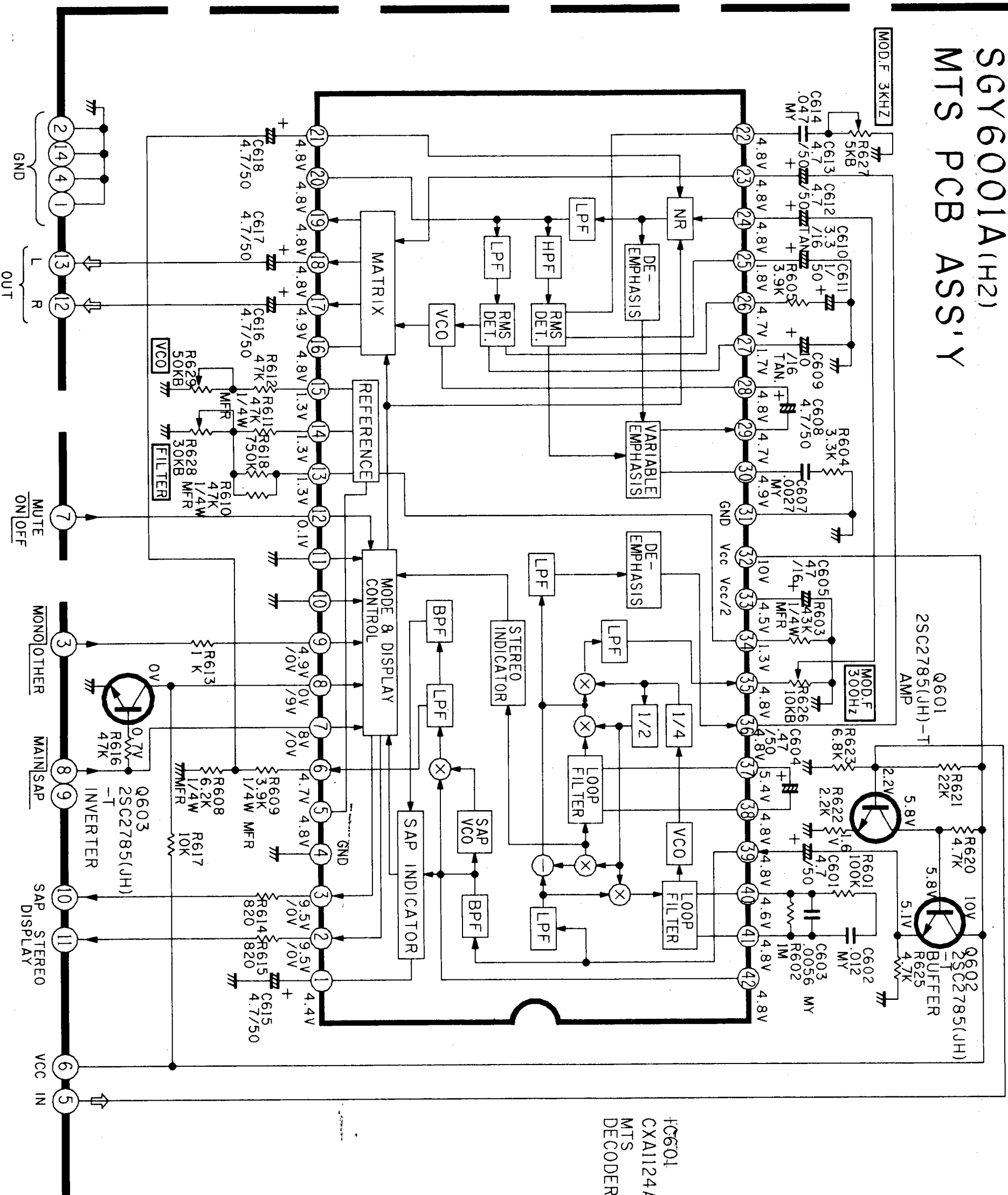
MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02		I
			03		
			04		
			05		
			06		
		VH	07		II
			08		
			09		
			10		
			11		
			12		
			13		
X	○	MID	A	14	I
			B	15	
			C	16	
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	II
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W+1	37	IV
			W+2	38	
			W+3	39	
			W+4	40	
			W+5	41	
			W+6	42	
			W+7	43	
			W+8	44	
			W+9	45	
			W+10	46	
			W+11	47	
			W+12	48	
			W+13	49	
			W+14	50	
			W+15	51	
			W+16	52	
			W+17	53	
			W+18	54	
			W+19	55	
			W+20	56	
			W+21	57	
			W+22	58	
			W+23	59	
			W+24	60	
			W+25	61	
			W+26	62	
			W+27	63	
			W+28	64	
		ULTRA	W+29	65	
			W+30	66	
			W+31	67	
			W+32	68	
			W+33	69	
			W+34	70	
			W+35	71	

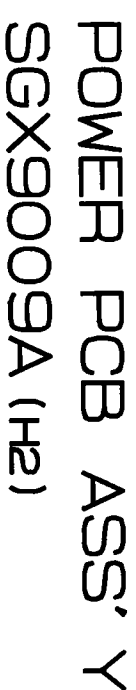
MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
X	○	ULTRA	W+35	71	IV
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
			W+67	108	
			W+68	109	
			W+69	110	
			W+70	111	
			W+71	112	
			W+72	113	
			W+73	114	
			W+74	115	
			W+75	116	
			W+76	117	
			W+77	118	
			W+78	119	
			W+79	120	
			W+80	121	
			W+81	122	
			W+82	123	
			W+83	124	
			W+84	125	
		SUB MID	A-8	01	I
			A-4	96	
			A-3	97	
			A-2	98	
			A-1	99	
○	X	UHF	14	S	IV
TOTAL 180CH					
{ VHF 124CH					
{ UHF 56CH					
NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.					

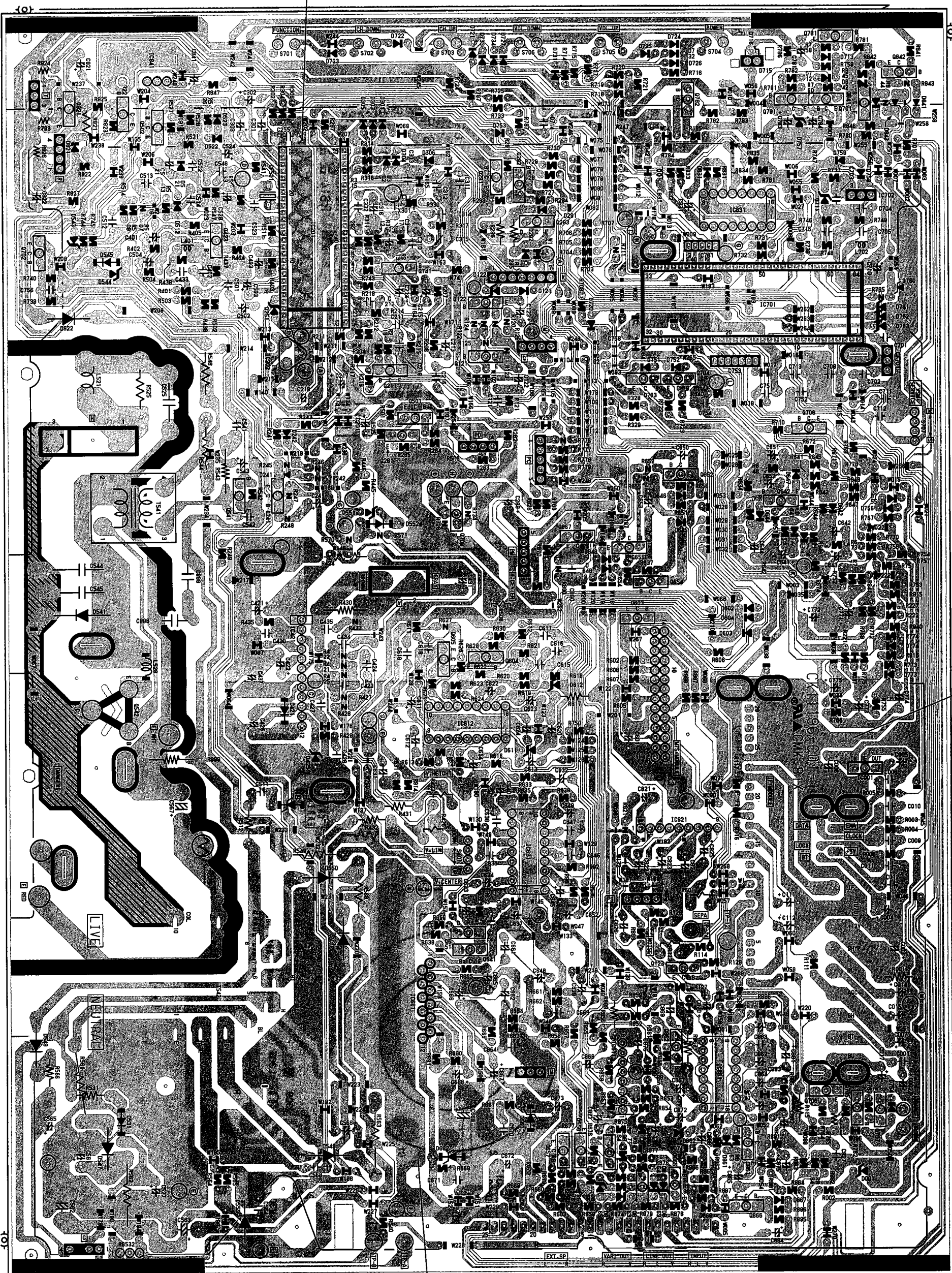
MAINPARTS LOCATION AND ALIGNMENTS LOCATION



SGY6001A(H2)
MTS PCB ASS'Y

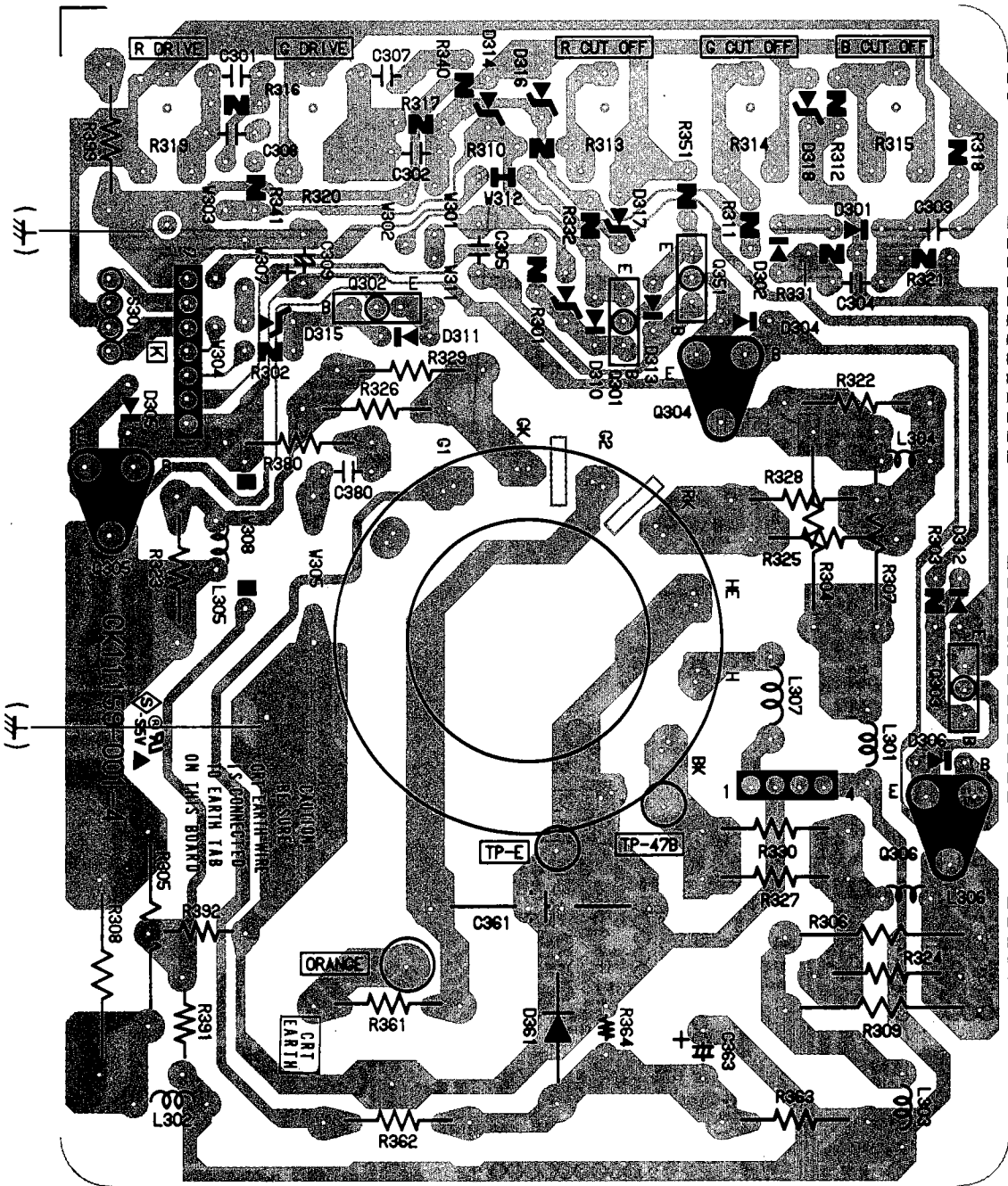






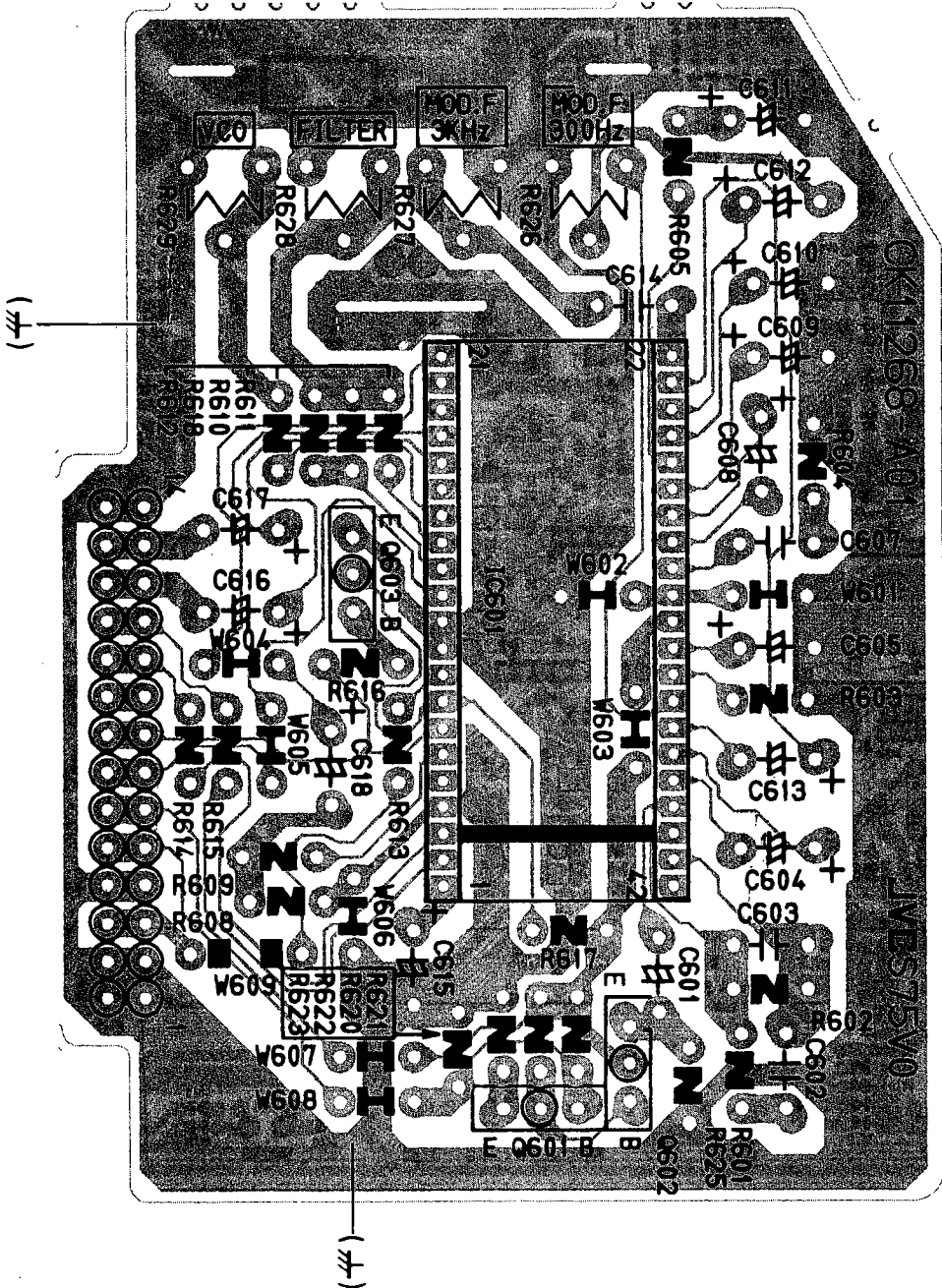
TOP

(Magnification Rate 144%)

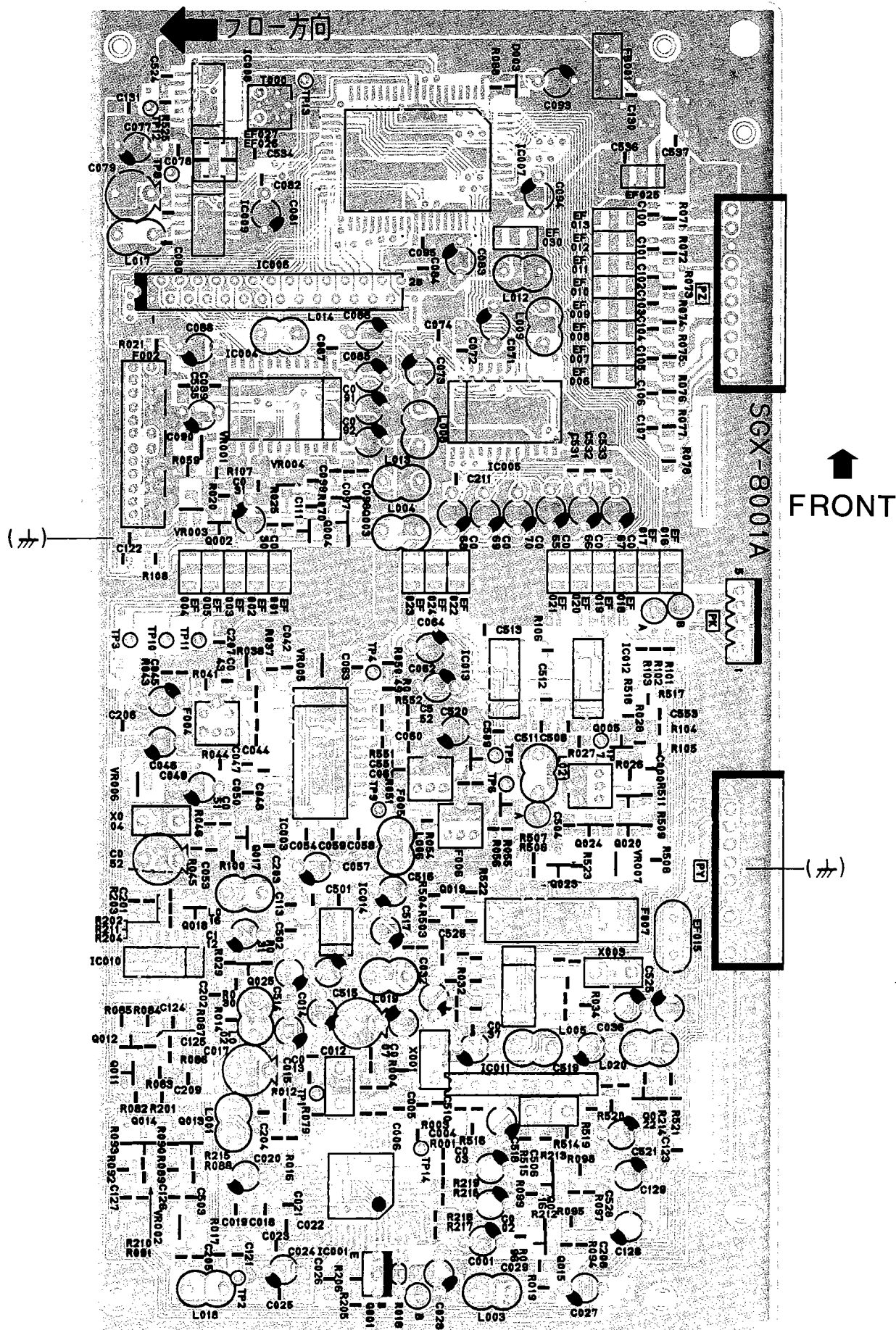


TOP

(Magnification Rate 200%)

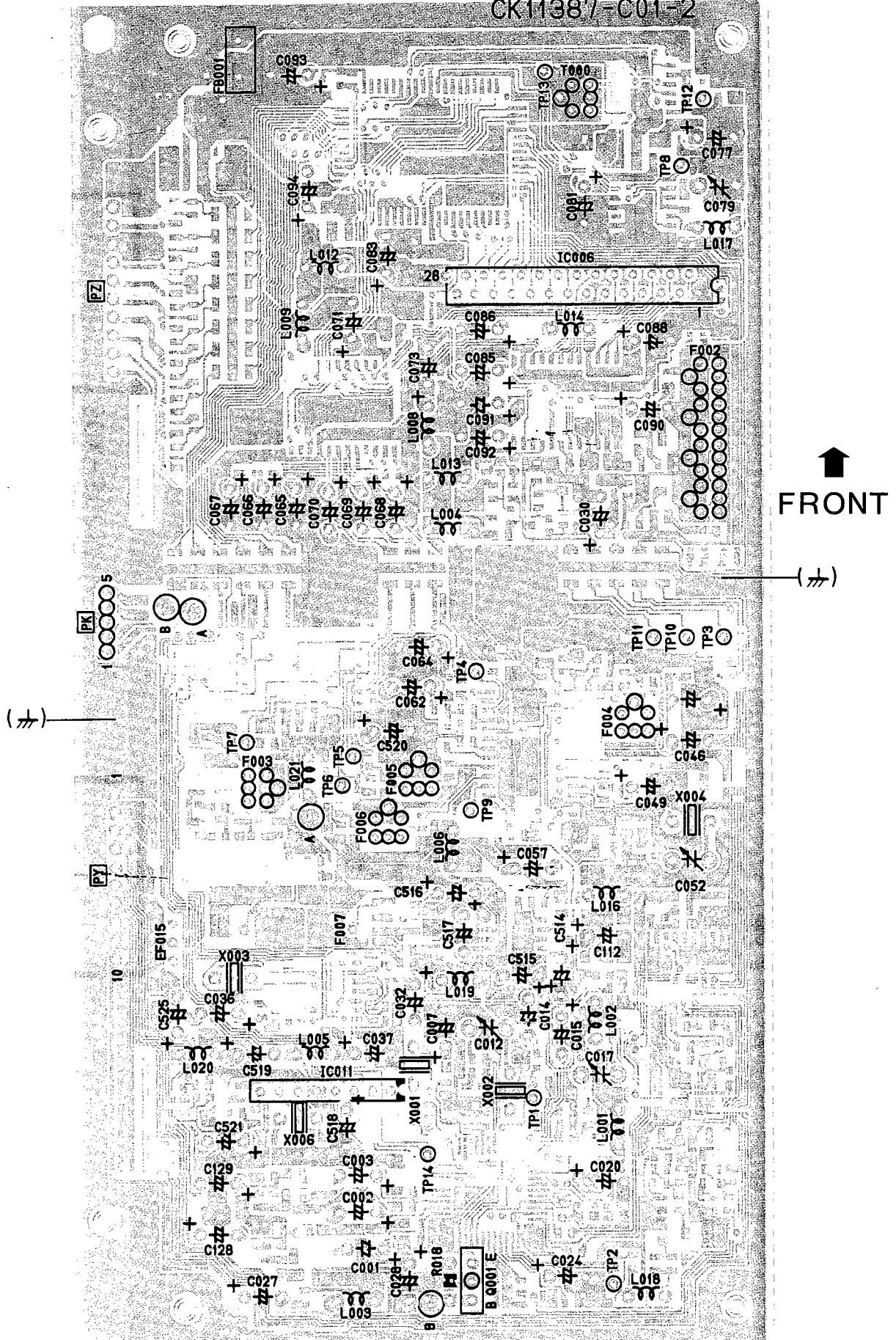


(Magnification Rate 132%)

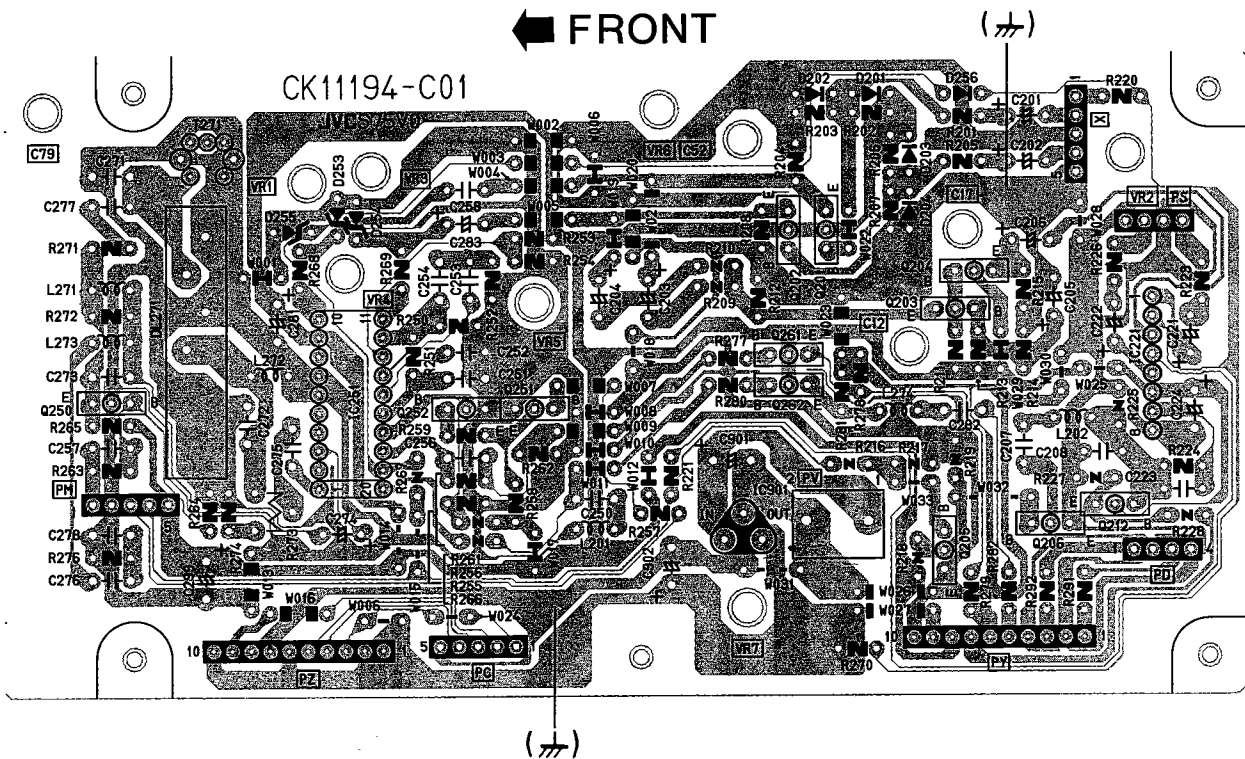


(Magnification Rate 132%)

CK11387-C01-2



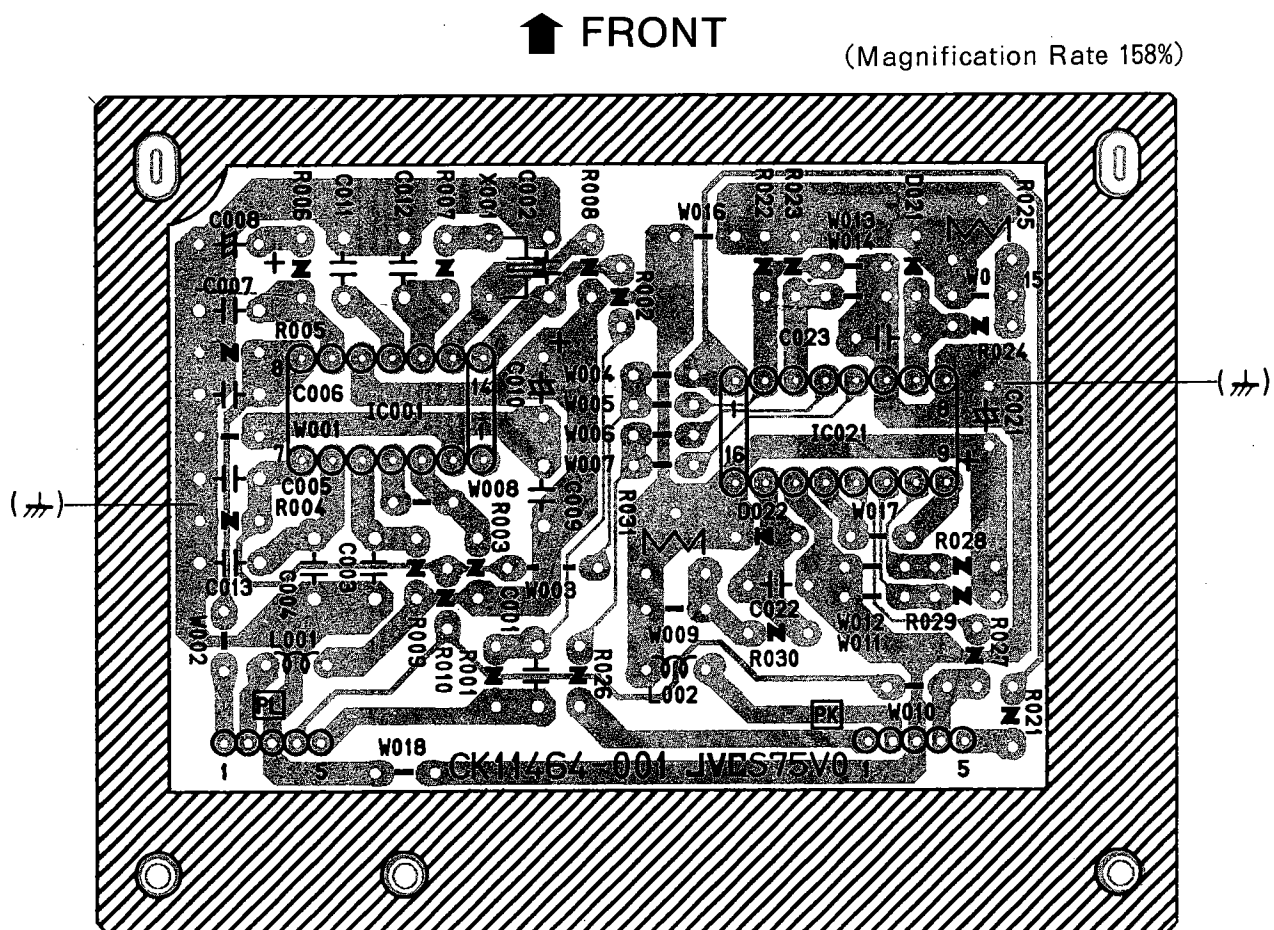
(Magnification Rate 100%)



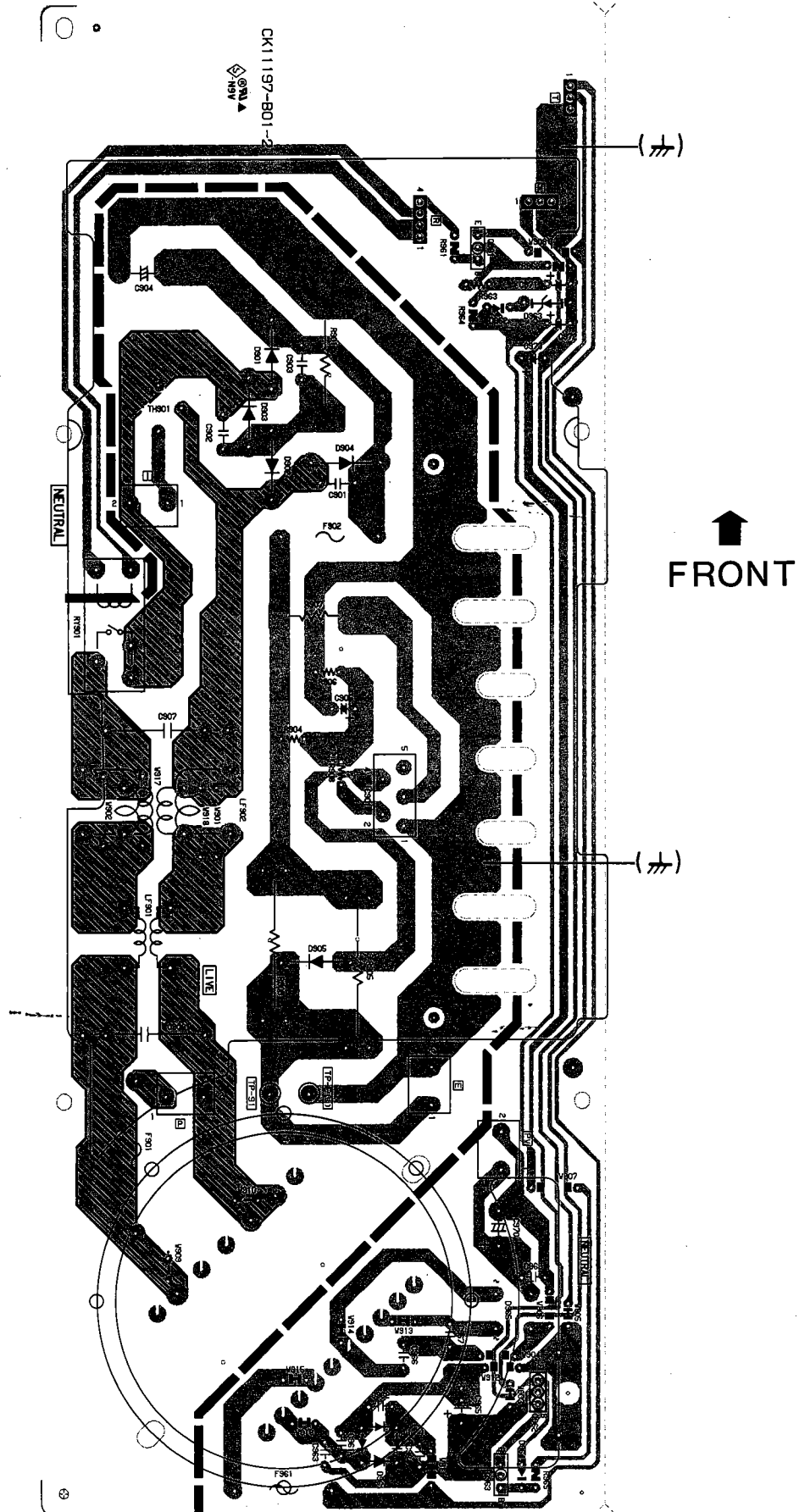
PIP SUB PCB PATTERN

[SGX8201A(H1)]

(Magnification Rate 158%)



(Magnification Rate 72%)



PARTS LIST

CAUTION

- The parts marked \triangle are very important for the safety. When replacing these parts, be sure to use specified ones to secure the safety and performance.
- The module circuit board is supplied together with the assembly, but the parts which do not have the drawing in this Parts List, P. C. Board Ass'y and the Parts No. columns of which are filled with lines — . will not be supplied.
- As a rule, the resistors and capacitors which are indicated as shown in (NOTE 2) "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board.

When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to (NOTE 2).

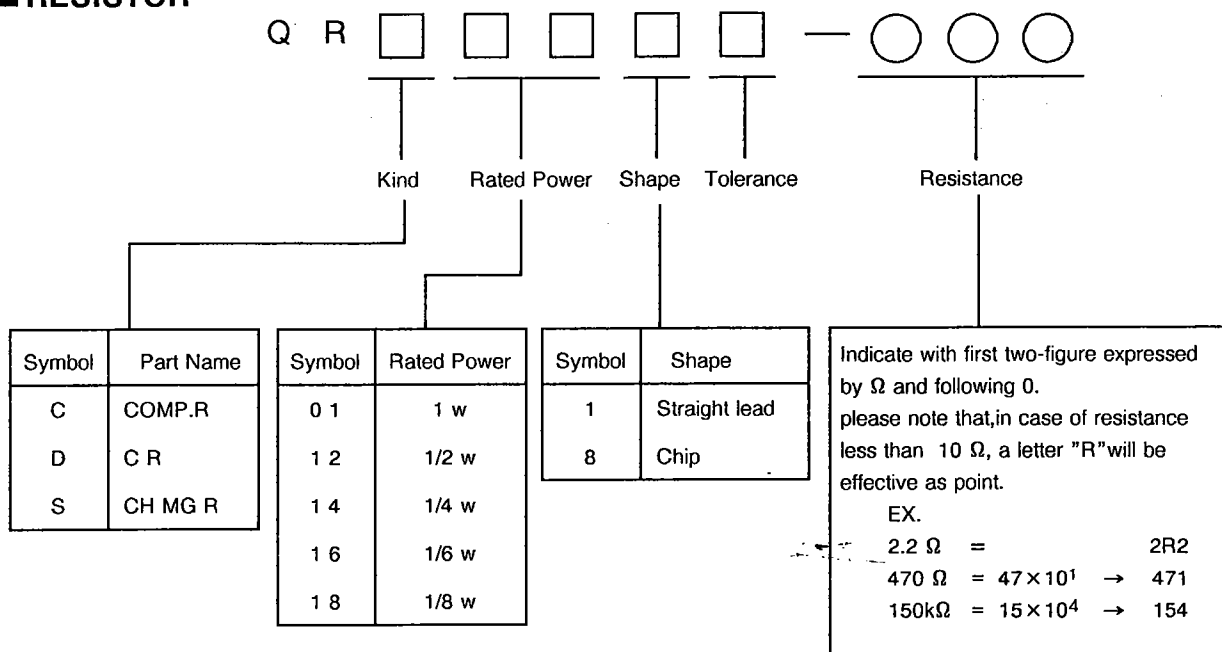
(NOTE 1) ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

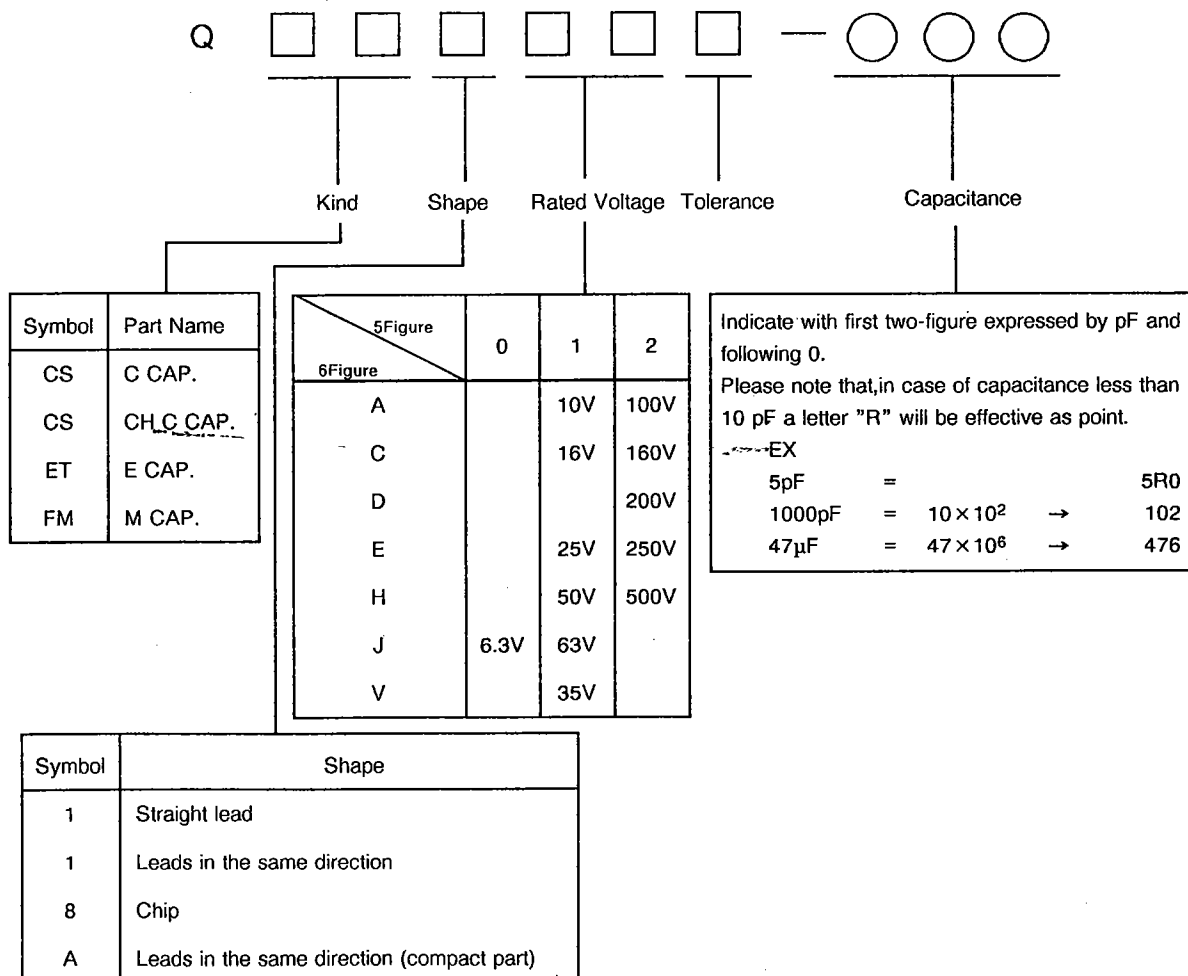
TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
$\pm 1\%$	$\pm 2\%$	$\pm 5\%$	$\pm 10\%$	$\pm 20\%$	$\pm 30\%$	+30% - 10%	+50% - 10%	+80% - 20%	+100% - 0%

(NOTE 2) HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS

■ RESISTOR



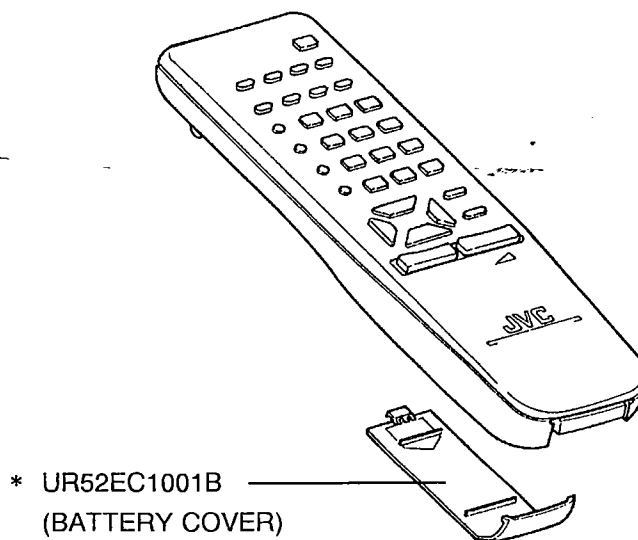
■ CAPACITOR



EXPLODED VIEW PARTS LIST

SYMBOL NO.	PART NO.	PART NAME	REMARKS
1	CM11579-00D-MA	FRONT CABI ASSY	*
2	MVA68AEC00X	PICTURE TUBE	V01 *
3	CE20179-A0AKJ1	DEFLECTION YOKE	DY01 *
4	CE41596-00AJ1	WEDGE ASSY	X4 *
5	A75034-B	P. C. MAGNET	
6	CH30392-00A	BRAIDED ASSY	
7	QH43109-00A	BRAIDED SUB ASSY	
8	CE41329-00CJ2	DEGAUSSING COIL	L01 *
9	CM33706-C0A-KD	PUSH KNOB ASSY	
10	CM45810-A01-V0	REMOCON WINDOW	
11	CM43094-002	JVC MARK	
12	CM33705-004-V0	KNOB HOLDER	
13	CEBSN12D-01KJ3	SPEAKER	X2, SP01, SP02 *
14	CM11606-A01-VA	SPEAKER GRILLE	X2 *
15	CE41735-00B-KD	F. B. T	T1542
16	CE30178-001	POWER TRANSF	T01
17	CM11548-001-MA	REAR COVER	*
18	GBSB4016N	TAPPING SCREW	X11 *
19	QMP14C0-200J3	POWER CORD	*
20	CM44889-001-A	RATING LABEL	*

REMOTE CONTROL UNIT & PARTS LIST



EXPLODED VIEW

