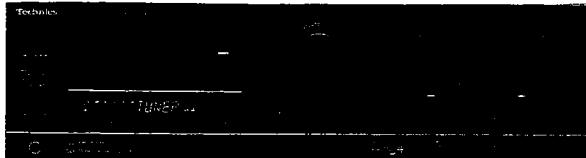


# Service Manual

Amplifier

Stereo Integrated Amplifier

SU-G70



## Color

(K) ..... Black Type

## Area

Country Code	Area	Color
(P) (P2)	U.S.A.	(K)
(PC)	Canada	(K)

## Systems

**SD-S310 (SU-G70P) (SU-G70PC)**  
**SD-S410 (SU-G70P2)**

## SPECIFICATIONS (IHF '78)

## ■ AMPLIFIER SECTION

<b>Rated minimum sine wave RMS power output</b>	
<b>20 Hz~20 kHz both channels driven</b>	110 W per channel (8 ohms)
<b>0.05% total harmonic distortion</b>	
<b>1 kHz continuous power output</b>	115 W per channel (8 ohms)
<b>both channels driven</b>	
<b>0.05% total harmonic distortion</b>	1.1 dB (8 ohms)
<b>Dynamic headroom</b>	0.03% (8 ohms)
<b>Total harmonic distortion half power at 1 kHz</b>	
<b>SMPTE intermodulation distortion</b>	0.05% (8 ohms)
<b>Frequency response</b>	
<b>PHONO</b>	RIAA standard curve ±0.8 dB
<b>TUNER, CD, TAPE, VCR 2/TV, VCR 1/EQ</b>	10 Hz~80 kHz, -3 dB
<b>Input sensitivity</b>	
<b>PHONO</b>	0.4 mV (2.5 mV, IHF '66)
<b>TUNER, CD, TAPE, VCR 2/TV, VCR 1/EQ</b>	15 mV (150 mV, IHF '66)
<b>S/N (IHF, A)</b>	
<b>PHONO</b>	71 dB (73 dB, IHF '66)
<b>TUNER, CD, TAPE, VCR 2/TV, VCR 1/EQ</b>	75 dB (94 dB, IHF '66)
<b>Maximum input voltage</b>	
<b>PHONO</b>	128 mV (135 mV, 1 kHz)
<b>Input impedance</b>	
<b>PHONO</b>	47 kilohms
<b>TUNER, CD, TAPE, VCR 2/TV, VCR 1/EQ</b>	47 kilohms

## Tone controls

<b>BASS</b>	50 Hz, +10 dB~-10 dB
<b>TREBLE</b>	20 kHz, +10 dB~-10 dB
<b>SUPER BASS</b>	80 Hz, +6 dB
<b>Output voltage TAPE REC OUT</b>	150 mV
<b>Load impedance</b>	
<b>A or B</b>	8~16 ohms
<b>A and B</b>	8~16 ohms

## ■ REAR AMPLIFIER SECTION

**Power output** 15×2 (8 ohms 1 kHz) at T.H.D 0.8%

## ■ GENERAL

<b>Power consumption</b>	430 W, 550 VA
<b>Power supply</b>	AC 120 V, 60 Hz
<b>Dimensions (W×H×D)</b>	430×130.5×298 mm (16 <sup>1</sup> / <sub>16</sub> "×5 <sup>7</sup> / <sub>16</sub> "×11 <sup>9</sup> / <sub>32</sub> ")
<b>Weight</b>	8.8 kg (19.4 lb.)

## Notes:

1. Specifications are subject to change without notice.  
Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

Matsushita Services Company  
Division of Matsushita Electric  
Corporation of America  
50 Meadowland Parkway,  
Secaucus, New Jersey 07094

Panasonic Sales Company,  
Division of Matsushita Electric  
of Puerto Rico, Inc.  
San Gabriel Industrial Park  
65th Infantry Ave. Km.9.5  
Carolina, P.R. 00630

Matsushita Electric of Canada  
Limited  
5770 Ambler Drive, Mississauga,  
Ontario, L4W 2T3

technics

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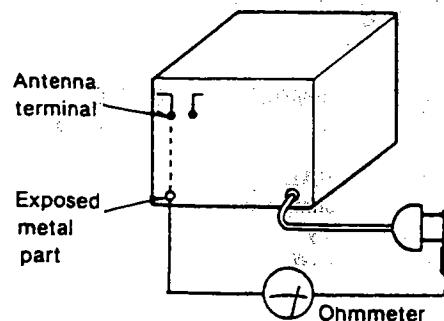
## ■ SAFETY PRECAUTION (This "safety precaution" is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

### • INSULATION RESISTANCE TEST

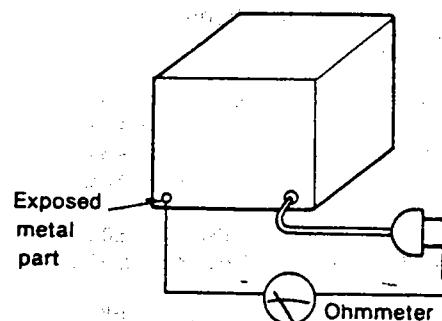
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between  $3M\Omega$  and  $5.2M\Omega$  to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

**Resistance =  $3M\Omega$ — $5.2M\Omega$**



(Fig. B)

**Resistance = Approx.  $\infty$**

4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

## ■ BEFORE REPAIR

- (1) Turn off the power supply. Using a  $10\Omega$ ,  $10W$  resistor, connect both ends of power supply capacitors (C701, C702) in order to discharge the voltage.
- (2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at  $120V$ ,  $60Hz$  in NO SIGNAL mode is  $430mA$ ~ $680mA$ .

## (VIDEO)

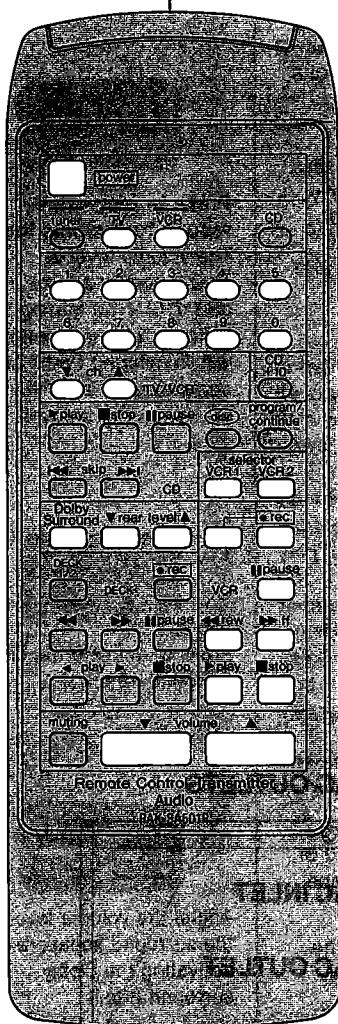
This remote-control transmitter can control selected Panasonic television or VCR which is equipped with remote-control function that has been introduced since 1984. (Consult your dealer for details.)

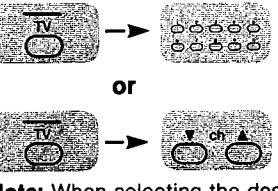
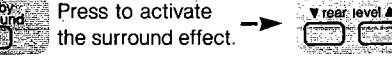
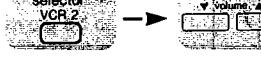
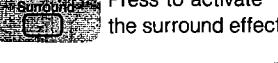
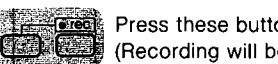
**Connection**

If the audio output terminals of TV or VCR are connected to the "VCR 1/EQ" or "VCR 2/TV" terminals of the amplifier, you can enjoy picture of TV or VCR with Hi-Fi sound.

**Operation**

When operating TV and VCR, face the remote-control transmitter toward the remote-control signal receptor of each unit.



	<p><b>Watching TV Broadcasts</b></p> <p><b>To switch ON the power</b></p>  <p>(Press again  and  to switch OFF.)</p> <p><b>To select the desired channel</b></p>  <p>[Press two buttons consecutively. To select a single-digit channel (2 to 9), first press "0" and then press the desired channel number (2 to 9).] or Press "" to change to a higher channel, or "" to change to a lower channel.</p> <p><b>Note:</b> When selecting the desired channel by the VCR, press the  instead of </p> <p><b>To adjust the volume level</b></p> <ul style="list-style-type: none"> <li>• If the TV is connected to the "VCR 1/EQ" terminals;</li>  <li>• If the TV is connected to the "VCR 2/TV" terminals;</li>  </ul> <p><b>To activate the Dolby surround effect</b></p>  <p>Press to activate the surround effect. →  Adjust the volume level of the surround speakers.</p>
	<p><b>Watching Video Tapes</b></p> <p><b>To switch ON the power</b></p>  <p>(Press again  and  to switch OFF.)</p> <p><b>To start the tape playback</b></p>  <p>(Playback will begin.)</p>  <p>Press to stop the tape.</p>  <p>Press to rewind or advance the tape.</p> <p><b>To adjust the volume level</b></p> <ul style="list-style-type: none"> <li>• If the VCR is connected to the "VCR 1/EQ" terminals;</li>  <li>• If the VCR is connected to the "VCR 2/TV" terminals;</li>  </ul> <p><b>To activate the Dolby surround effect</b></p>  <p>Press to activate the surround effect. →  Adjust the volume level of the surround speakers.</p>
<p><b>Recording video sources on the VCR</b></p> <p><b>Note:</b> If the audio output terminals of a TV or VCR are connected to the "VCR 1/EQ" terminals of the amplifier, the Dolby surround effect will not be activated during sound playback.</p>	<p><b>1 Select the desired TV channel for recording.</b></p> <p><b>2 Start the recording.</b></p> <p></p> <p>Press these buttons simultaneously. (Recording will begin.)</p> <p></p> <p>Press to stop the recording.</p> <p></p> <p>Press to stop the recording temporarily. Press again to start the recording.</p>

## ■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

- \* No sound is heard when the power is switched ON.
- \* Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

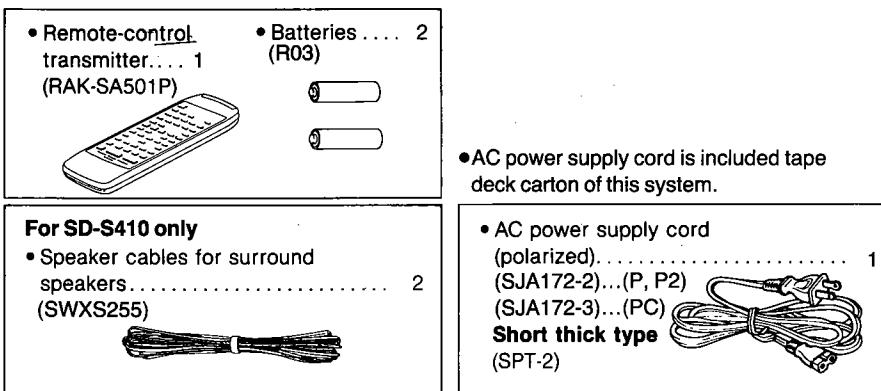
If this occurs, follow the procedure outlined below:

1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

**Note:**

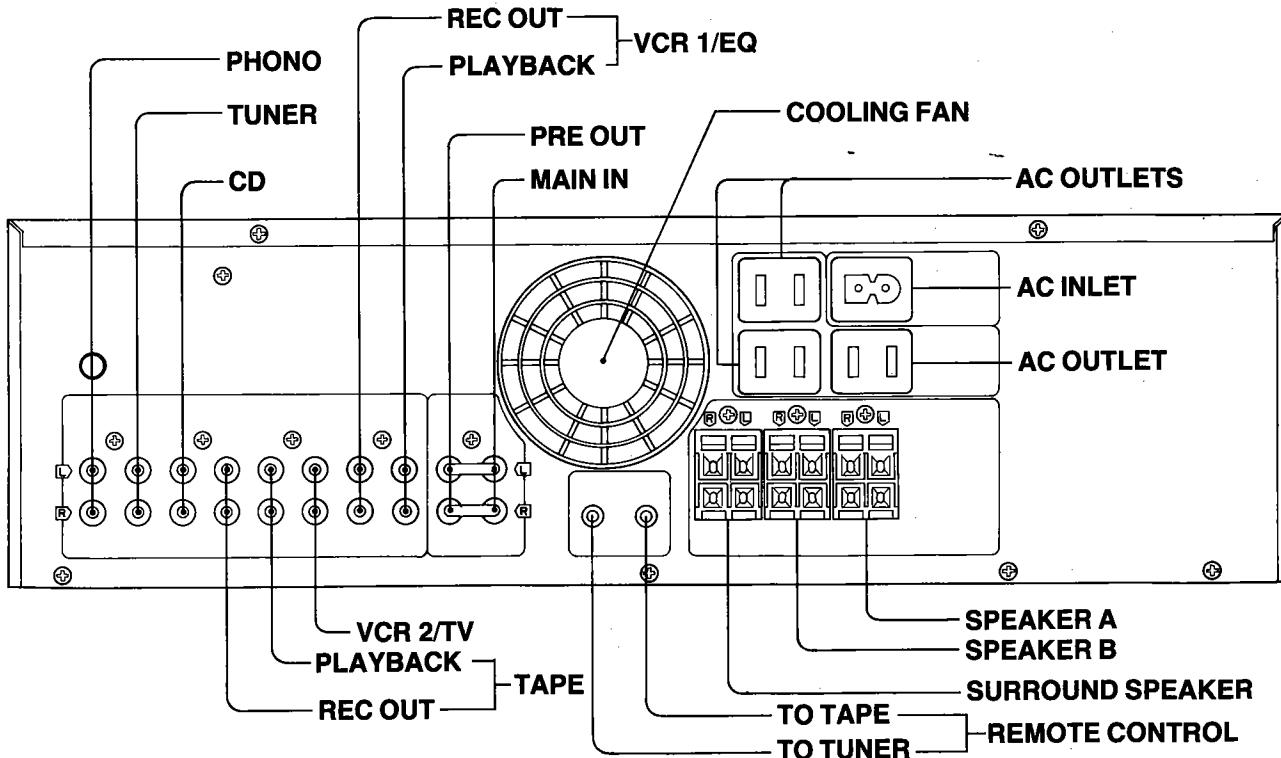
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

## ■ ACCESSORIES



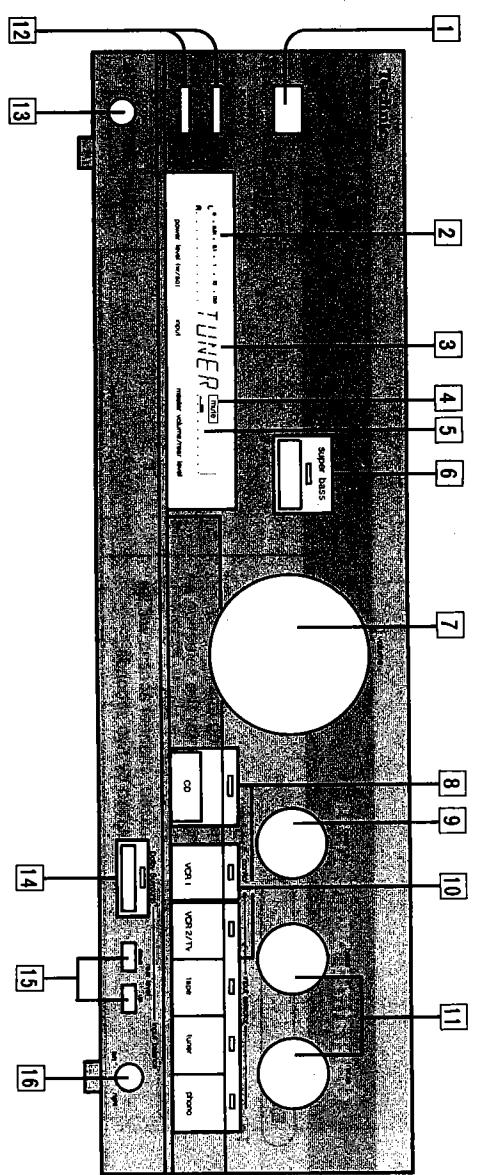
## ■ LOCATION OF CONTROLS

### • Rear panel



\*Phono input capacitance is about 100 pF.

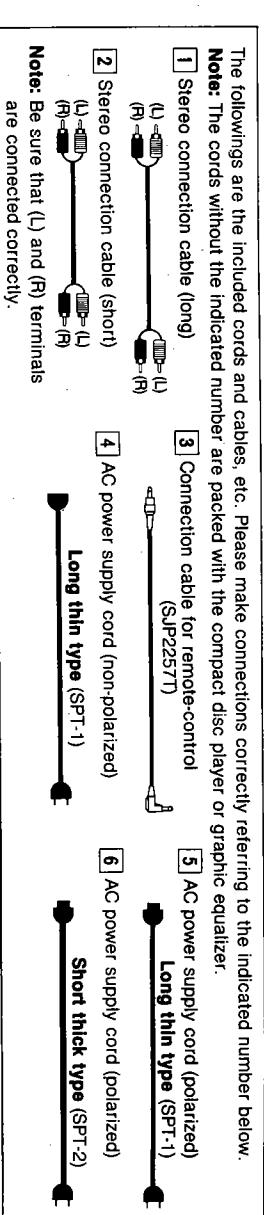
## ●Front panel



- 1 Power switch (power)**
- These indicators indicate the peak power value of the output level to the speaker systems.
- 2 Peak power indicators (power level)**
- These indicators indicate the peak power value of the output level to the speaker systems.
- 3 Input selector/volume level display (input)**
- This display usually shows the sound source selected by the input selectors; when the volume-control is used to adjust the volume level, the level is displayed in decibel for about three seconds, after which the display returns again to indication of the sound source.
- 4 Muting indicator (mute)**
- This indicator will illuminate when the muting button on the remote-control transmitter is pressed.
- To cancel the muting function without the remote-control transmitter, press the "phono" button of the input selectors on this unit for about 4 seconds, after reducing the volume level to the minimum position.
- 5 Volume indicator (master volume/rear level)**
- Indicates the volume output level at a glance.
- 6 Super bass switch/indicator (super bass)**
- Low frequency sounds are reinforced when this switch is pressed. The indicator above will illuminate.
- 7 Volume control (volume)**
- These controls are used to adjust the volume level of the surround speaker systems.
- 8 Input selectors/indicators (input selector)**
- These selectors are used to select the sound source to be heard, such as a disc, radio broadcasts, etc. The corresponding input selector indicator illuminates during operation to indicate the selected sound source. The selected sound source is also displayed on the input selector/volume level display.
- 9 Balance control (balance)**
- This control is used to adjust the left/right volume balance.
- 10 VCR 1-monitor switch/indicator (VCR 1)**
- Set this switch to the ON position (so that the indicator above is illuminated) when using a graphic equalizer or, playing back or monitoring the sound from a VCR connected to the "VCR 1/EQ" terminals. This selector should be set to the OFF position (indicator off) at all other times.
- 11 Tone controls (bass/treble)**
- The bass control is used to adjust the low-frequency sound range, and the treble control is used to adjust the high-frequency sound range.

## ■ CONNECTIONS

Note: Components capable of receiving remote-control transmission via the remote control cable, will not respond to the remote-control transmitter commands unless the audio cables are connected. The same applies to components connected for the "synchro-edit" operation.



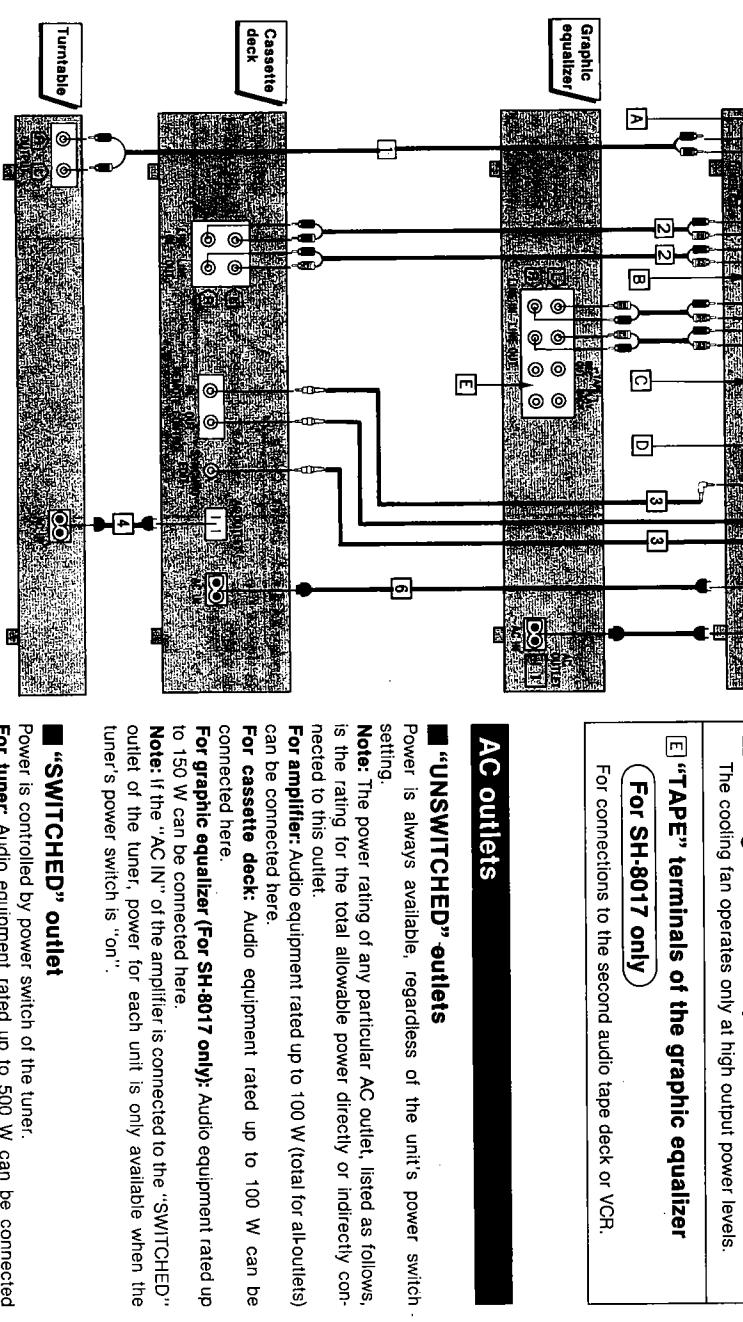
### System Connection Options

- A "GND" terminal of the amplifier**
- This terminal is for use with a turntable which has a ground wire.
- B "PRE OUT/MAIN IN" terminals of the amplifier**
- Use these terminals to operate the main amplifier as an independent preamplifier. (Refer to the operating instructions of the optional equipment.)
- C "TAPE" terminals of the graphic equalizer**
- Do not remove these pins otherwise. (No sound will be heard if they are removed.)

### "UNSWITCHED" outlets

- Power is always available, regardless of the unit's power switch setting.
- Note:** The power rating of any particular AC outlet, listed as follows, is the rating for the total allowable power directly or indirectly connected to this outlet.
- For amplifier:** Audio equipment rated up to 100 W (total for all-outlets) can be connected here.
- For cassette deck:** Audio equipment rated up to 100 W can be connected here.
- For graphic equalizer (For SH-8017 only):** Audio equipment rated up to 150 W can be connected here.
- Note:** If the "AC IN" of the amplifier is connected to the "SWITCHED" outlet of the tuner, power for each unit is only available when the tuner's power switch is "on".

- D "SWITCHED" outlet**
- Power is controlled by power switch of the tuner.
- For tuner:** Audio equipment rated up to 500 W can be connected here.
- E Cooling fan of the amplifier**
- The cooling fan operates only at high output power levels.
- F "TAPe" terminals**
- For connections to the second audio tape deck or VCR.

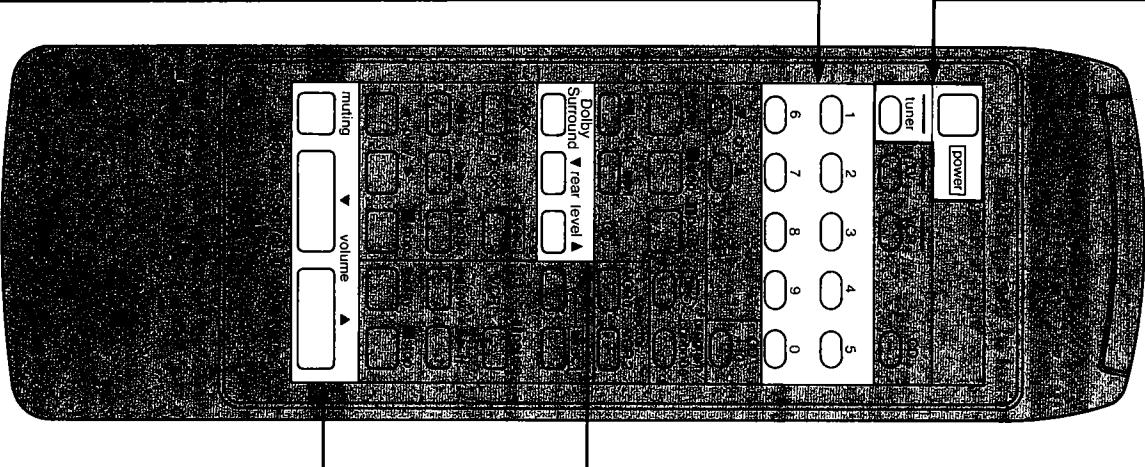


- 16 Dolby surround input balance control (input balance)**
- This control is used to minimize dialogue leakage in the surround channel thereby optimizing the Dolby surround decoding operation.

# ■ REMOTE-CONTROL OPERATION

(AUDIO)

**Before beginning**      **While listening to music**



**Before beginning** →

**On the system**

**Listening to Radio Broadcasts**



**Note:**  
When selecting channel 1 or channel 2, enter the selection as "01" or "02". If only "1" or "2" is pressed, channel access will be delayed by two seconds.

**Adjust the volume level.**  
(The volume level will be displayed on the input selector/volume level display and volume indicator of the amplifier.)

**Amplifier control**

→ **While listening to music**

**Operating procedures**

**Example**

To select "channel" 12,

**Note:**  
When selecting channel 1 or channel 2, enter the selection as "01" or "02". If only "1" or "2" is pressed, channel access will be delayed by two seconds.

**Press to stop disc play temporarily.**  
Press **Power** to start the disc play again.

**Press to temporarily reduce the volume level.**  
The volume level is attenuated by approx. 20 dB (1/10). (The muting indicator on the amplifier will illuminate. Press once again to resume to the previous volume level.)

→ **While listening to music**

- Set the power of each component to ON.
- For system with compact disc player, switch ON the power to compact disc player also.

**By the remote-control transmitter**

It is possible to control the power to the entire system.  
(If the components' power cords are connected to the outlets of this unit.)

To do this, follow the steps below:



**Basic steps before listening to compact discs**

Insert the discs into the disc trays.

Select the desired channel.

**Sequential play** (in the continuous mode)

To listen from the first track of the first disc

**Direct-access play** (in the continuous mode)

To listen from a desired track of a desired disc

Select the desired disc number.

**Program play** (in the programmed mode)

To select all tracks of a desired disc

Select the desired disc number.

**Notes:**

- If only the disc is selected in direct access play, play of all tracks on that disc (beginning from its first track) will begin in about ten seconds.
- To select a track numbered 10 or higher in the direct-access play or program play mode, first press the "+10" button the necessary number of times (i.e., press two times to select "20") and then press the appropriate "numeric button" to select the least significant digit.

**Press to stop the tape.**  
Press to rewind or advance the tape.

→ **While listening to music**

**Listening to Compact Discs**

To listen from the first track of the first disc

**Press to stop disc play temporarily.**

Press **Power** to start the disc play again.

**Press to temporarily reduce the volume level.**

The volume level is attenuated by approx. 20 dB (1/10). (The muting indicator on the amplifier will illuminate. Press once again to resume to the previous volume level.)

**Press to activate the Dolby surround effect.**

→ **While listening to music**

- Surround ▼ rear level ▲
- 6 □ 7 □ 8 □ 9 □ 0 □
- 1 □ 2 □ 3 □ 4 □ 5 □
- Tuner □
- DOOR □

Surround ▼ rear level ▲

6 □ 7 □ 8 □ 9 □ 0 □

1 □ 2 □ 3 □ 4 □ 5 □

Tuner □

DOOR □

**Listening to Tapes**

To select certain tracks of a desired disc

Select the desired disc number.

**Notes:**

- Insert the cassette tape into the holder of tape deck (1 and/or 2).
- Select the Dolby noise-reduction system and desired reverse mode.

**Press to stop the tape.**  
Press to rewind or advance the tape.

**Deck 2 only**  
Press to stop the tape temporarily.

Press **Power** to start the tape again.

**Press to activate the Dolby surround effect.**

→ **While listening to music**

The operation of these buttons depends on the source selected.

**After Listening is Finished**

**Reduce the volume level.**

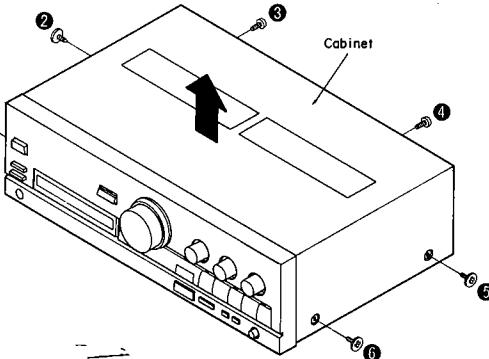
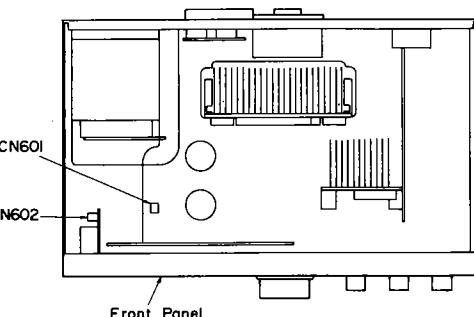
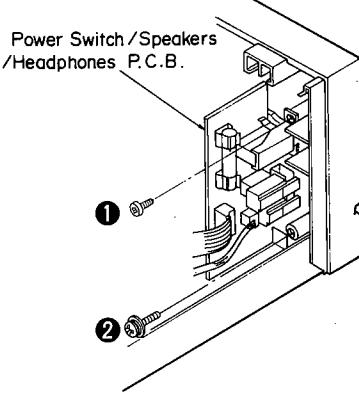
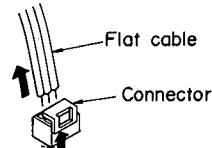
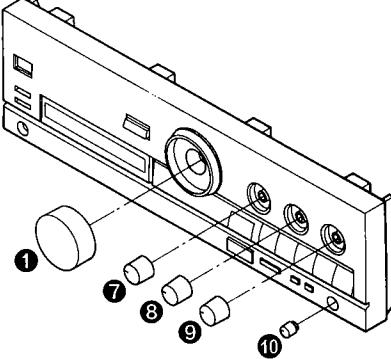
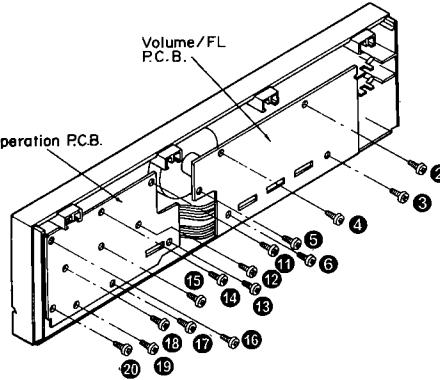
→ **Power**

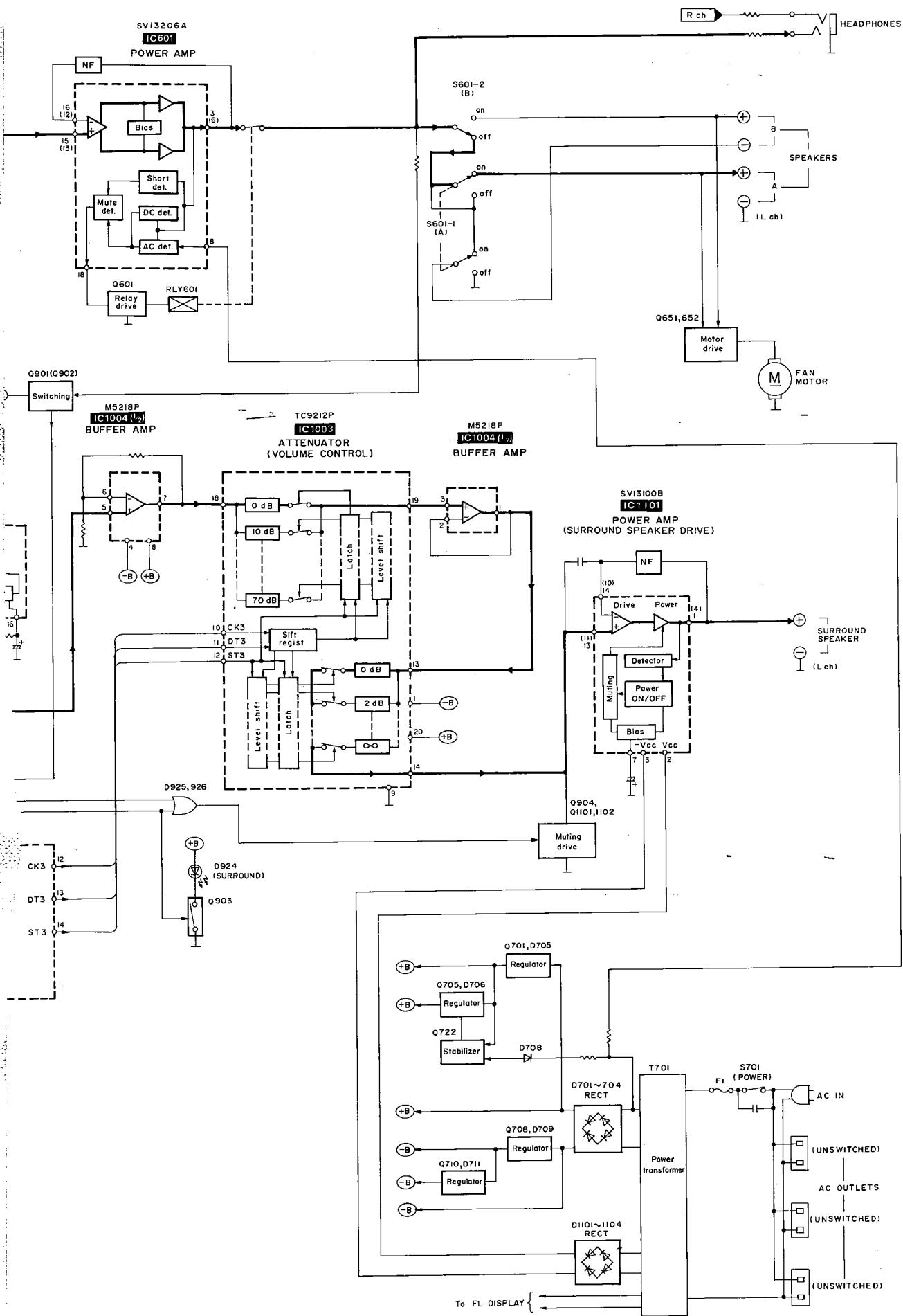
**Note:**  
The input selection, the volume level, and the muting setting will be retained (as they were at the time when the power was switched OFF) by the memory back-up function.

# ■ DISASSEMBLY INSTRUCTIONS

## "ATTENTION SERVICER"

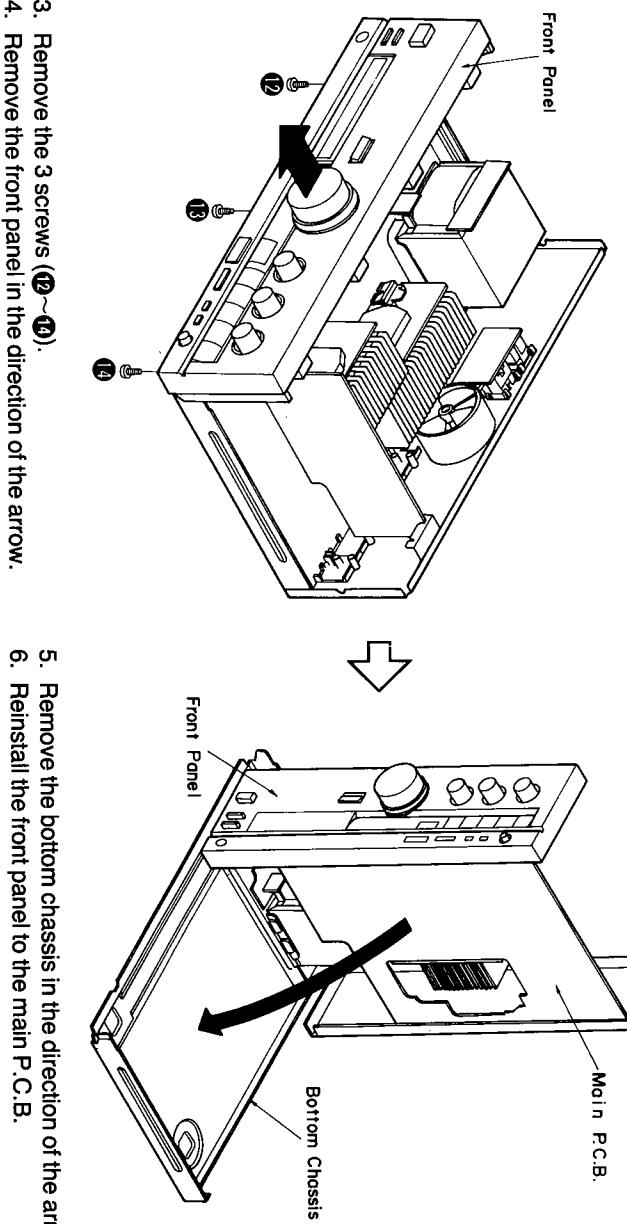
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	Removal of the Cabinet	Ref. No. 2	Removal of the Front Panel
Procedure 1		Procedure 1→2	
	 <p>● Remove the 6 screws (1~6).</p>		
Ref. No. 3	Removal of the Power Switch/ Speakers/Headphones P.C.B		<ol style="list-style-type: none"> <li>1. Remove the 2 flat cables (CN601, CN602).</li> <li>2. Remove the 3 screws (1~3).</li> <li>3. Remove the front panel in the direction of the arrow.</li> </ol>  <p>● Remove the 2 screws (1, 2).</p>
Ref. No. 4	Removal of the Volume/FL P.C.B. and Operation P.C.B.		<p><b>How to remove the flat cable</b></p> <ol style="list-style-type: none"> <li>1. Lift the connector.</li> <li>2. Pull out the flat cable.</li> </ol> 
Procedure 1→2→4	 <p>■ Volume/FL P.C.B.</p> <ol style="list-style-type: none"> <li>1. Pull out the 1 knob (1).</li> <li>2. Remove the 5 screws (2~6).</li> </ol>		 <p>■ Operation P.C.B.</p> <ol style="list-style-type: none"> <li>1. Pull out the 4 knobs (7~10).</li> <li>2. Remove the 10 screws (11~20).</li> </ol>

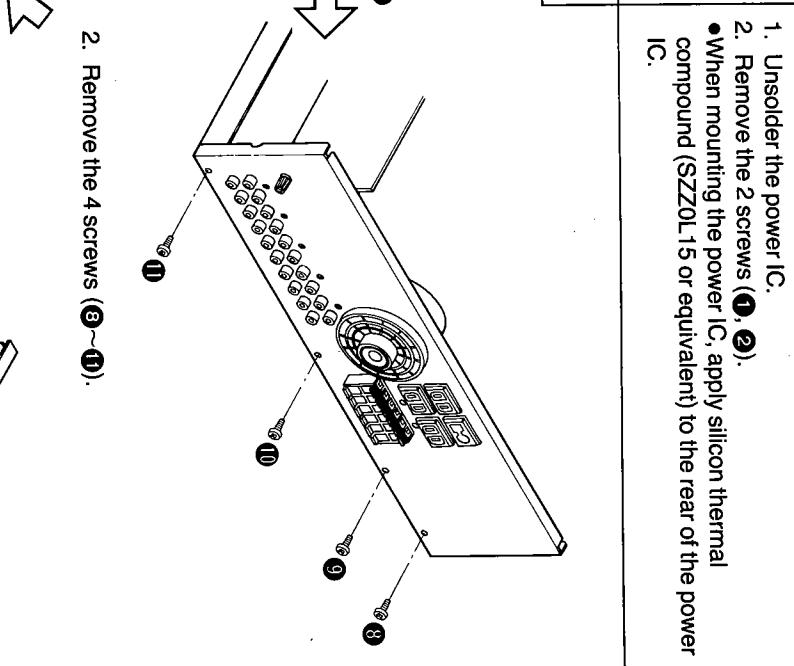


<b>Ref. No. 5</b>	<b>Removal of the Surround P.C.B.</b>	<b>Ref. No. 6</b>	<b>Removal of the Power IC</b>
<b>Procedure 1→5</b>	<p><b>Procedure 1→5→6</b></p>	<b>Procedure 1→5→6</b>	

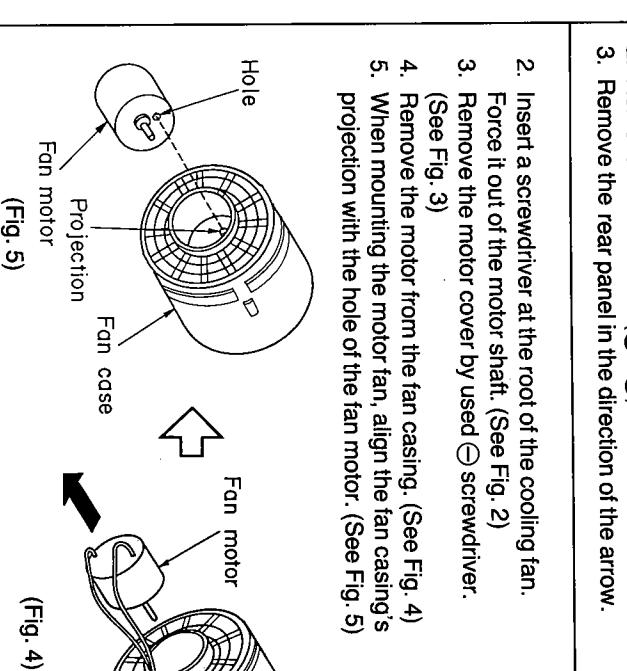
<b>Ref. No. 8</b>	<b>Removal of the Power IC and Regulator Transistor</b>	<b>Ref. No. 9</b>	<b>Removal of the Power Transformer</b>
<b>Procedure 1→5→7→8</b>	<p><b>Procedure 1→10</b></p>	<b>Procedure 1→9</b>	



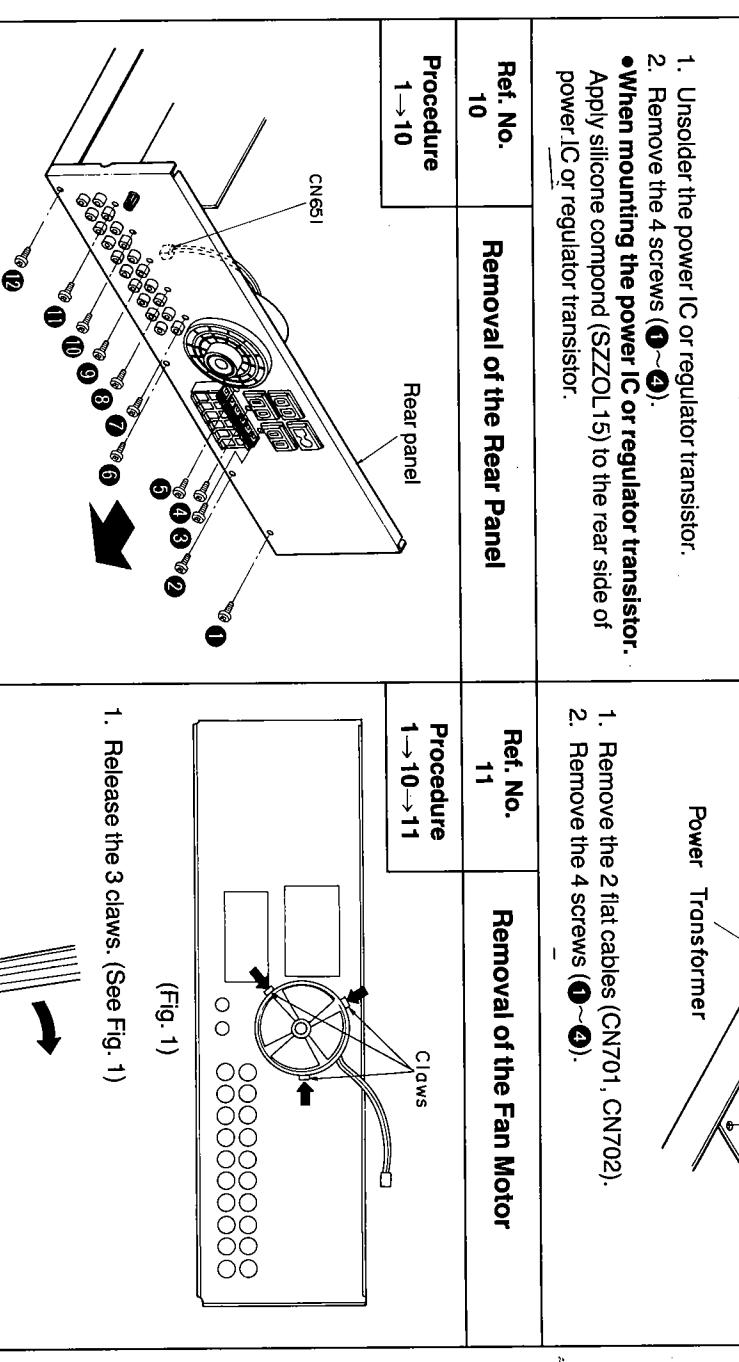
1. Remove the flat cable (CN703).
2. Remove the 3 screws (1~3).
3. Remove the angle.
4. Remove the surround P.C.B. in the direction of the arrow.



1. Unsolder the power IC.
2. Remove the 2 screws (1, 2).
- When mounting the power IC, apply silicon thermal compound (SZZOL15 or equivalent) to the rear of the power IC.
4. Remove the surround P.C.B. in the direction of the arrow.



1. Remove the 1 connector (CN651).
2. Remove the 12 screws (1~12).
3. Remove the rear panel in the direction of the arrow.

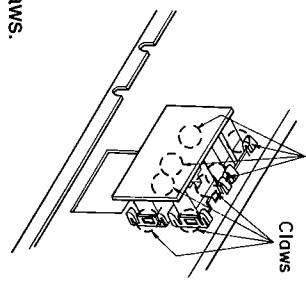


2. Insert a screwdriver at the root of the cooling fan. Force it out of the motor shaft. (See Fig. 2)
3. Remove the motor cover by used  $\ominus$  screwdriver. (See Fig. 3)
4. Remove the motor from the fan casing. (See Fig. 4)
5. When mounting the motor fan, align the fan casing's projection with the hole of the fan motor. (See Fig. 5)

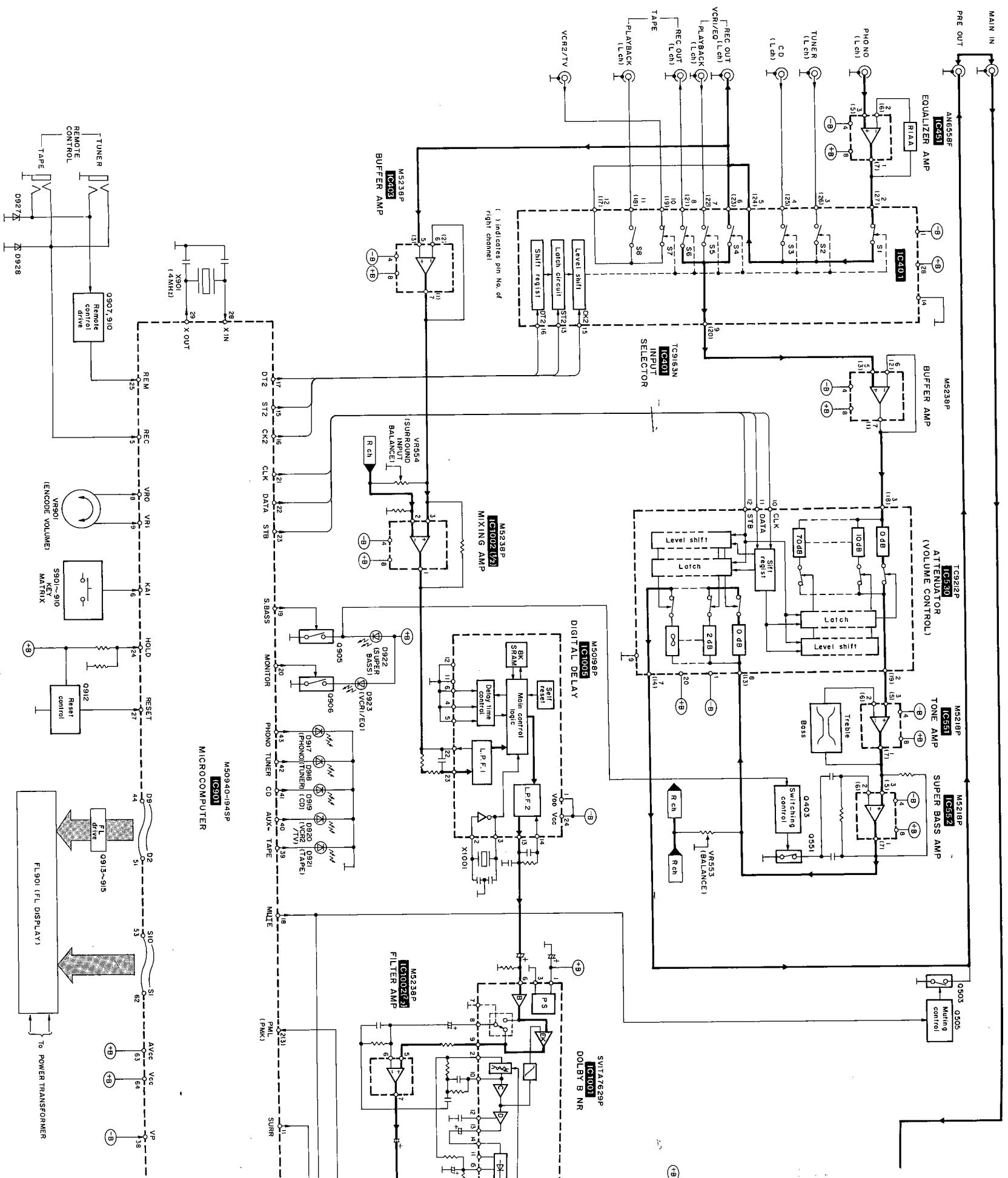
5. Remove the bottom chassis in the direction of the arrow.
6. Reinstall the front panel to the main P.C.B.

Ref. No. 12	Removal of the AC Outlet/AC Inlet P.C.B.
Procedure 1→10→12	

- Release the 8 claws.



## ■ BLOCK DIAGRAM





**PRINTED CIRCUIT BOARDS** (Parts list: pages 29~32; Terminal guide: page 22)

SU-G70

1

2

3

4

5

6

7

8

9

10

GND

PHONO

TUNER

CD

TAPE

VCR 2 / TV

VCR 1 / EQ

PRE OUT

MAIN IN

REMOTE CONTROL

(TUNER)

(TAPE)

(SURROUND)

SPEAKERS

(A)

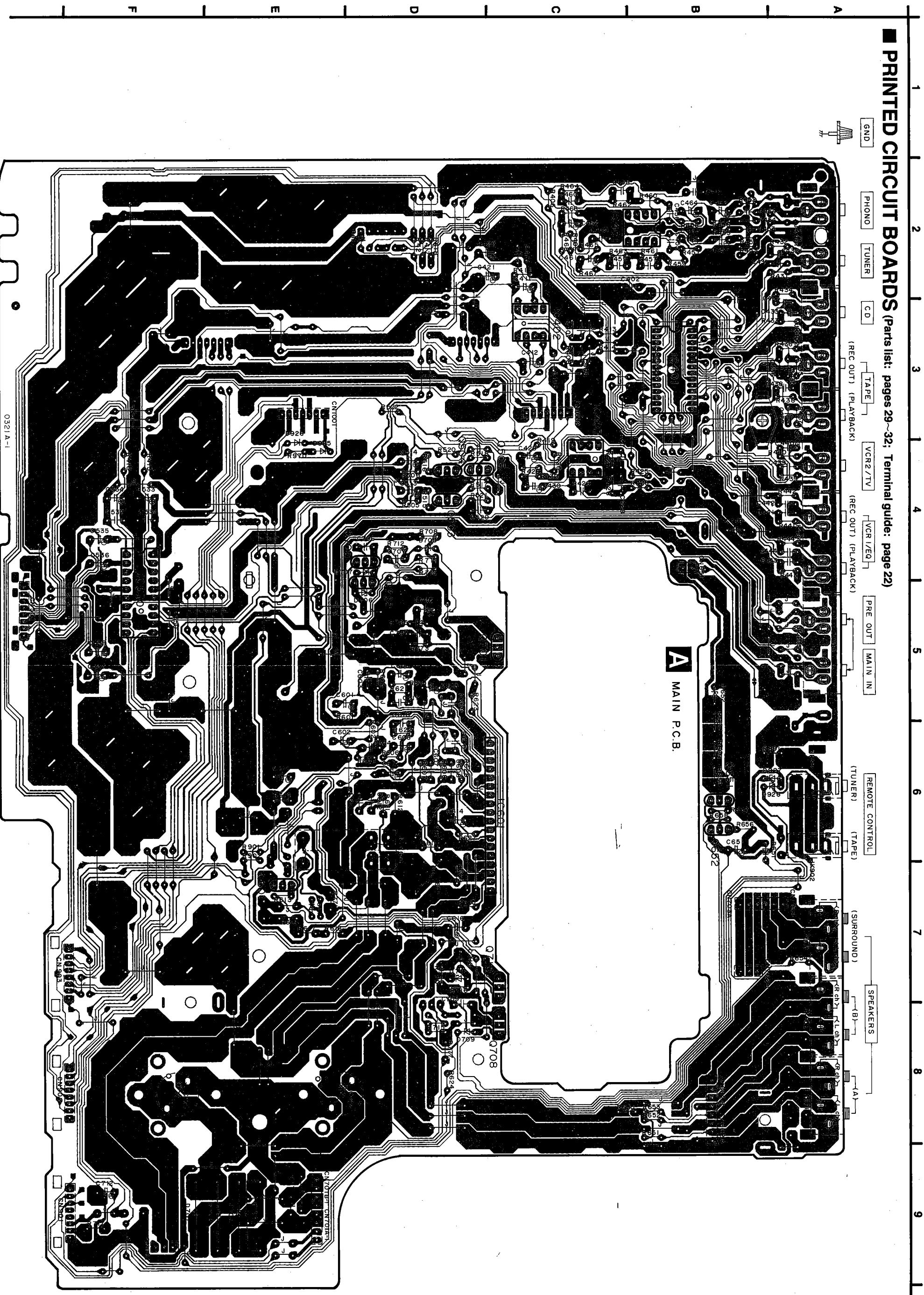
(B)

L ch

R ch

M ch

A  
MAIN P.C.B.



0321 A-1

11

12

13

14

15

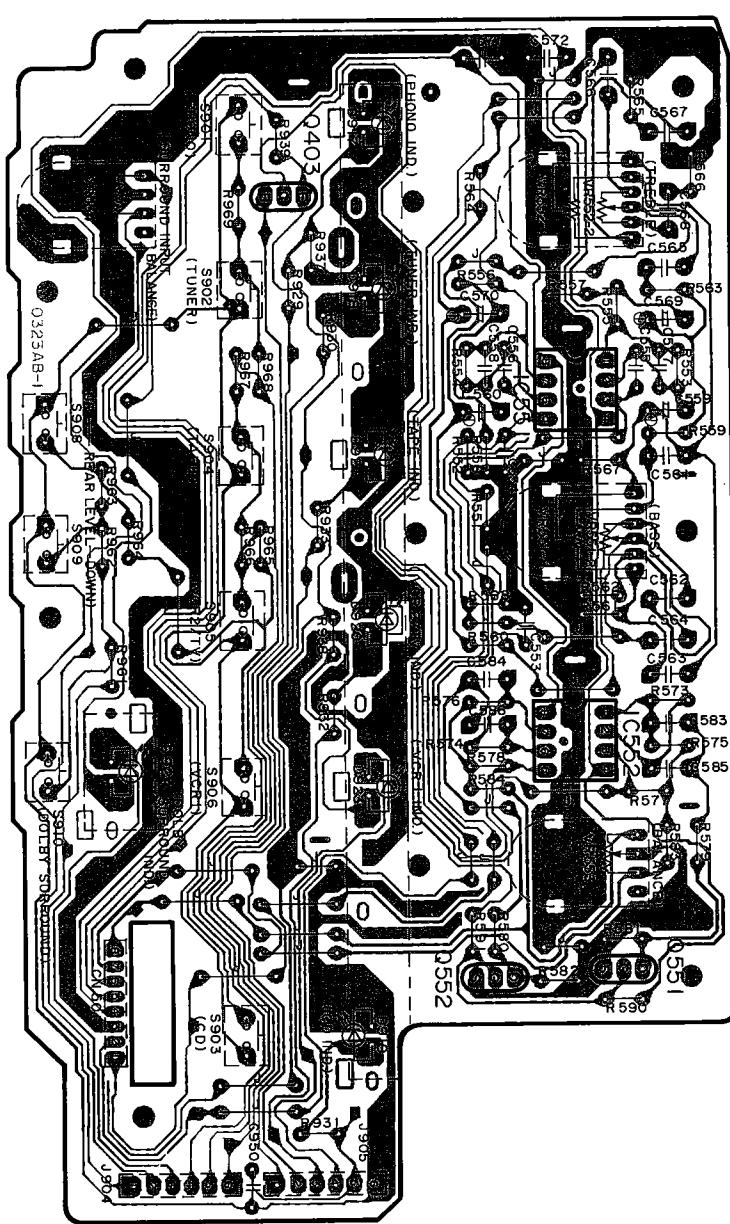
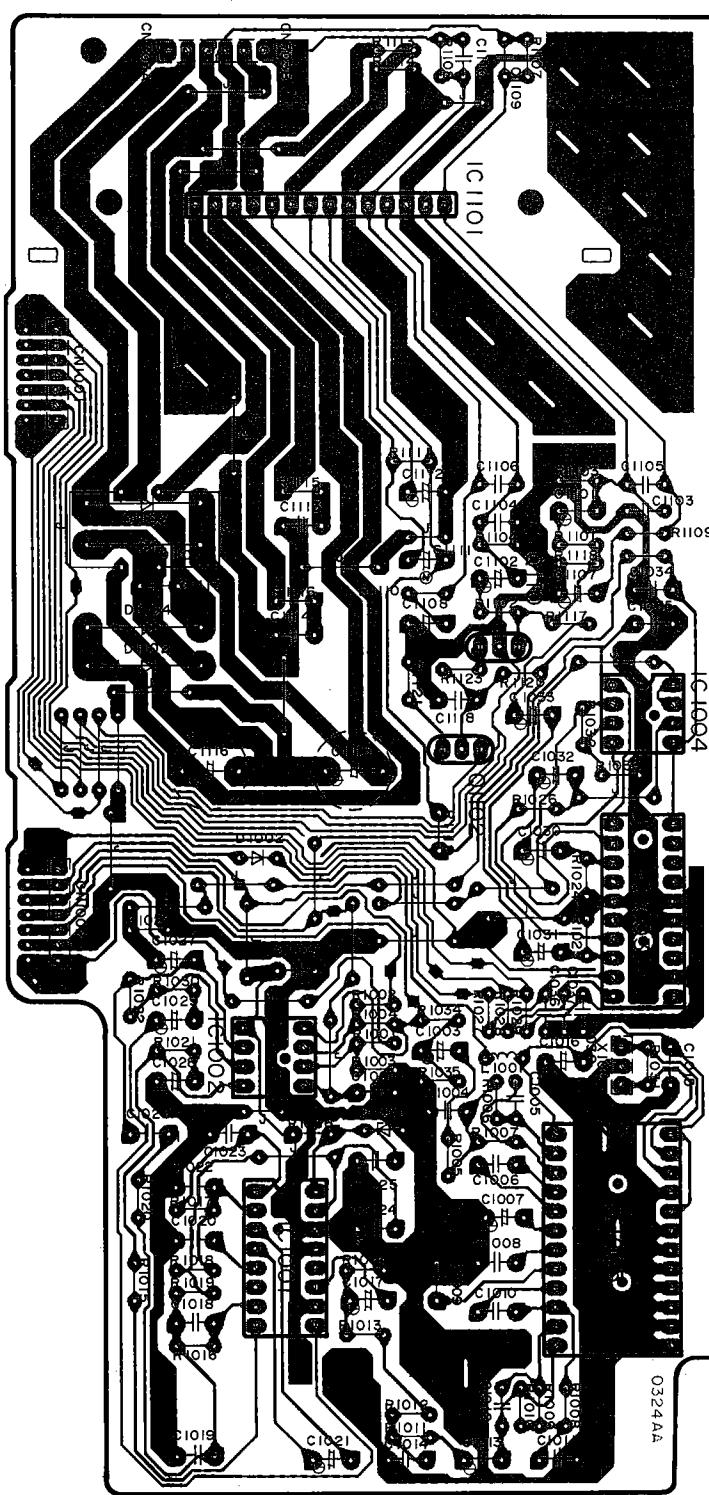
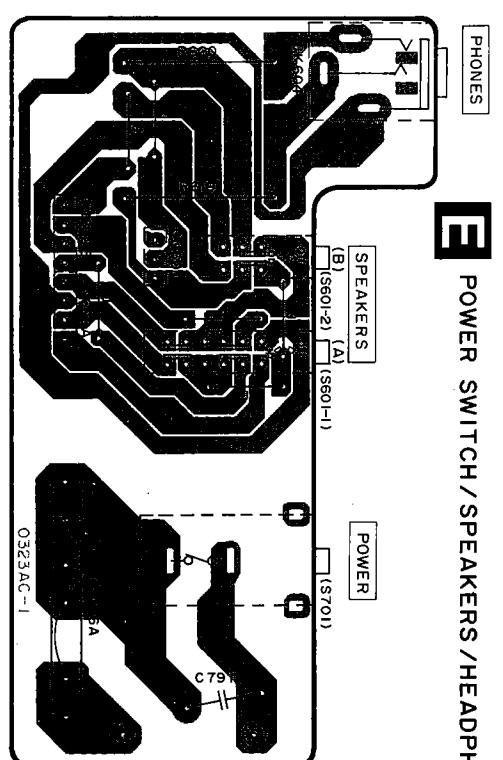
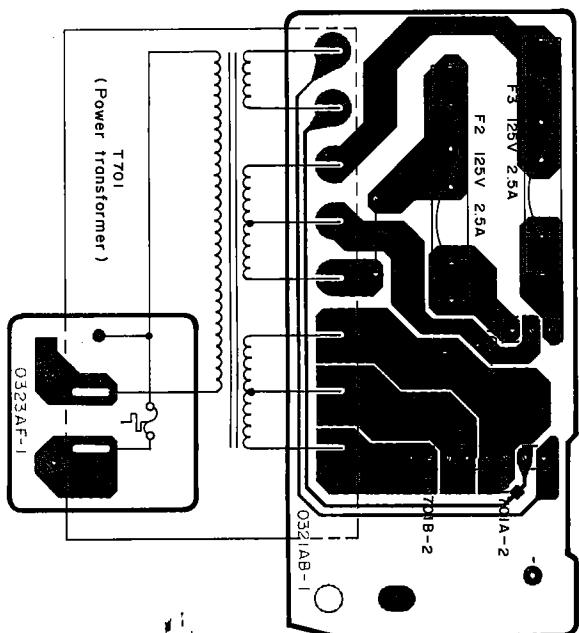
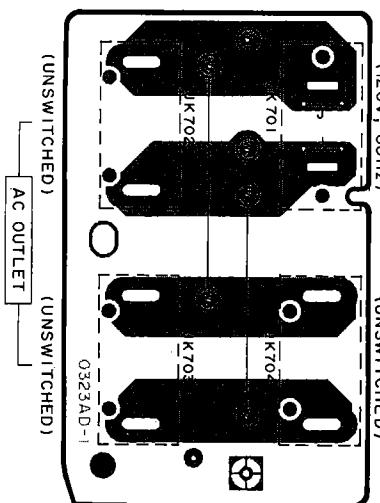
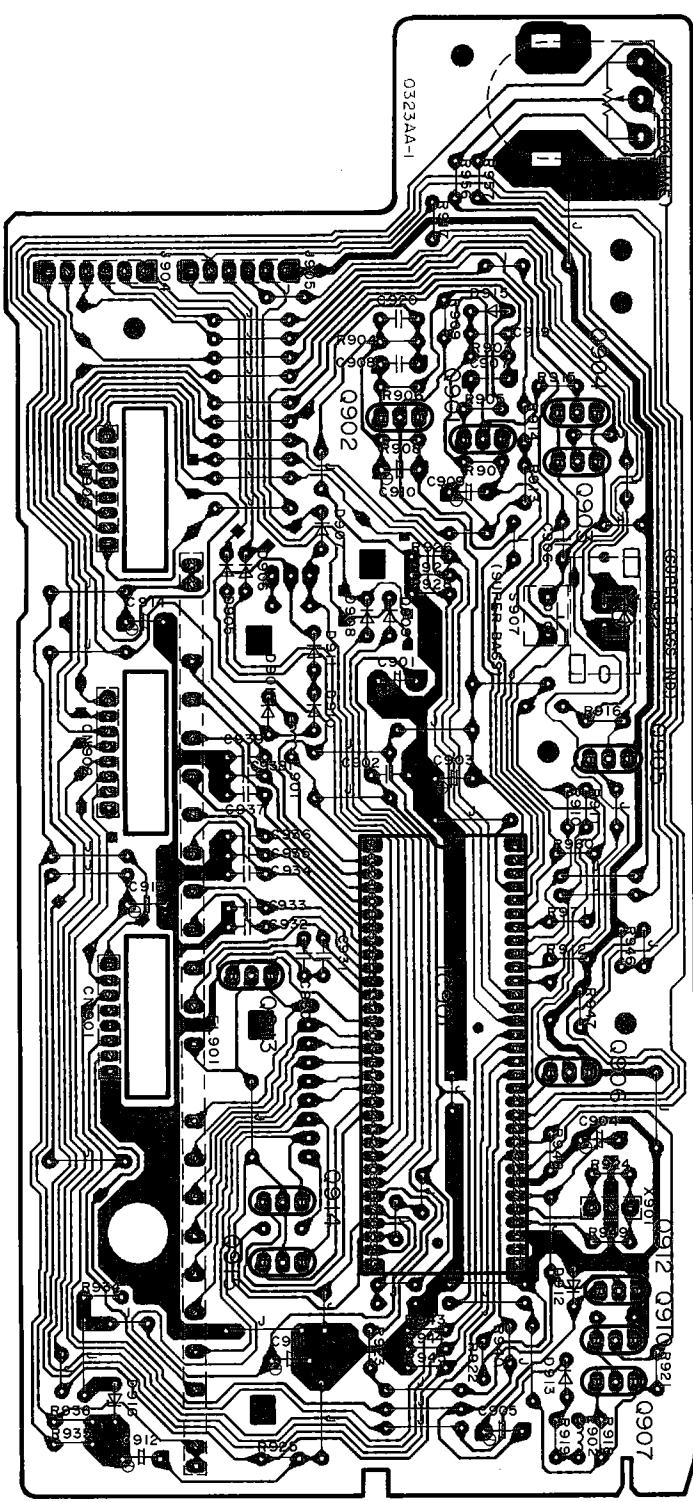
16

17

18

19

20

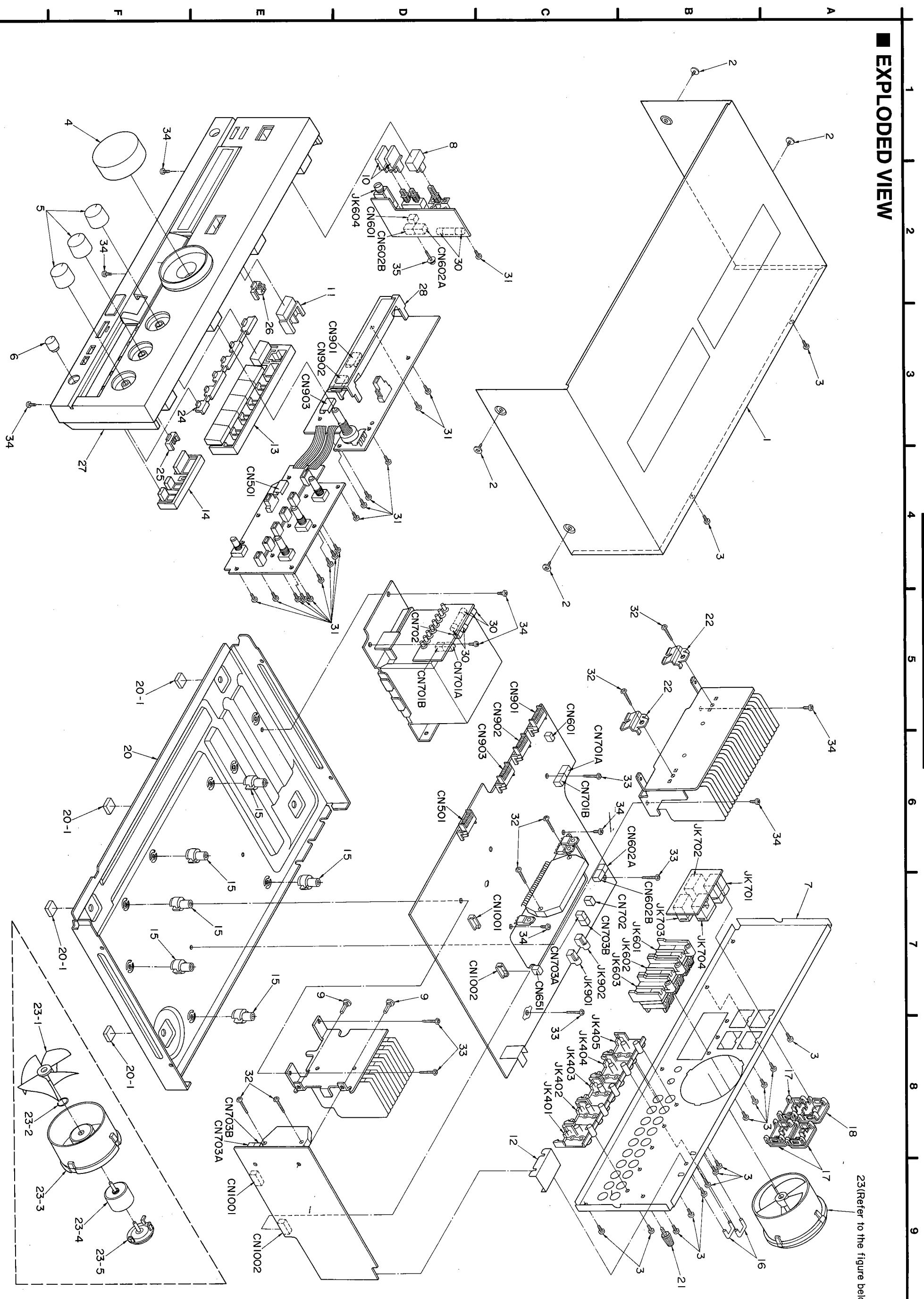
**B** OPERATION P.C.B.**D** SURROUND P.C.B.**E** POWER SWITCH/SPEAKERS/HEADPHONES JACK P.C.B.**F** AC IN/AC OUTLETS P.C.B.**C** VOLUME / FL DRIVE P.C.B.





# ■ EXPLODED VIEW

SU-G70      SU-G70



23(Refer to the figure below)

# ■ SCHEMATIC DIAGRAM

(Parts list on pages 29~32)

(This schematic diagram may be modified at any time with the development  
of new technology.)

- S601-1, 601-2 : Speaker selector switches.

[S601-1: A, S601-2: B]

: Power switch in "on" position.

[S901-1~906 : Input selector switches.

S901: Phono, S902: Tuner

S903: CD, S904: Tape

S905: VCR 2/TV, S906: VCR 1

: Super bass switch.

[S908: up, S909: down]

: Dolby surround switch.

S910 : Dolby surround switch.

CD • Phono signal line

Positive voltage line

Negative voltage line

Recording signal

GND

\*Indicated voltage values are the standard values for the unit measured by  
the DC electronic circuit tester (high-impedance) with the chassis taken as  
standard. Therefore, there may exist some errors in the voltage values,  
depending on the internal impedance of the DC circuit tester.

\*Components identified by  $\Delta$  mark have special characteristics important  
for safety. When replacing any of these components, use only  
manufacturer's specified parts.

\*Caution!

IC and LSI are sensitive to static electricity.  
Secondary trouble can be prevented by taking care during repair.

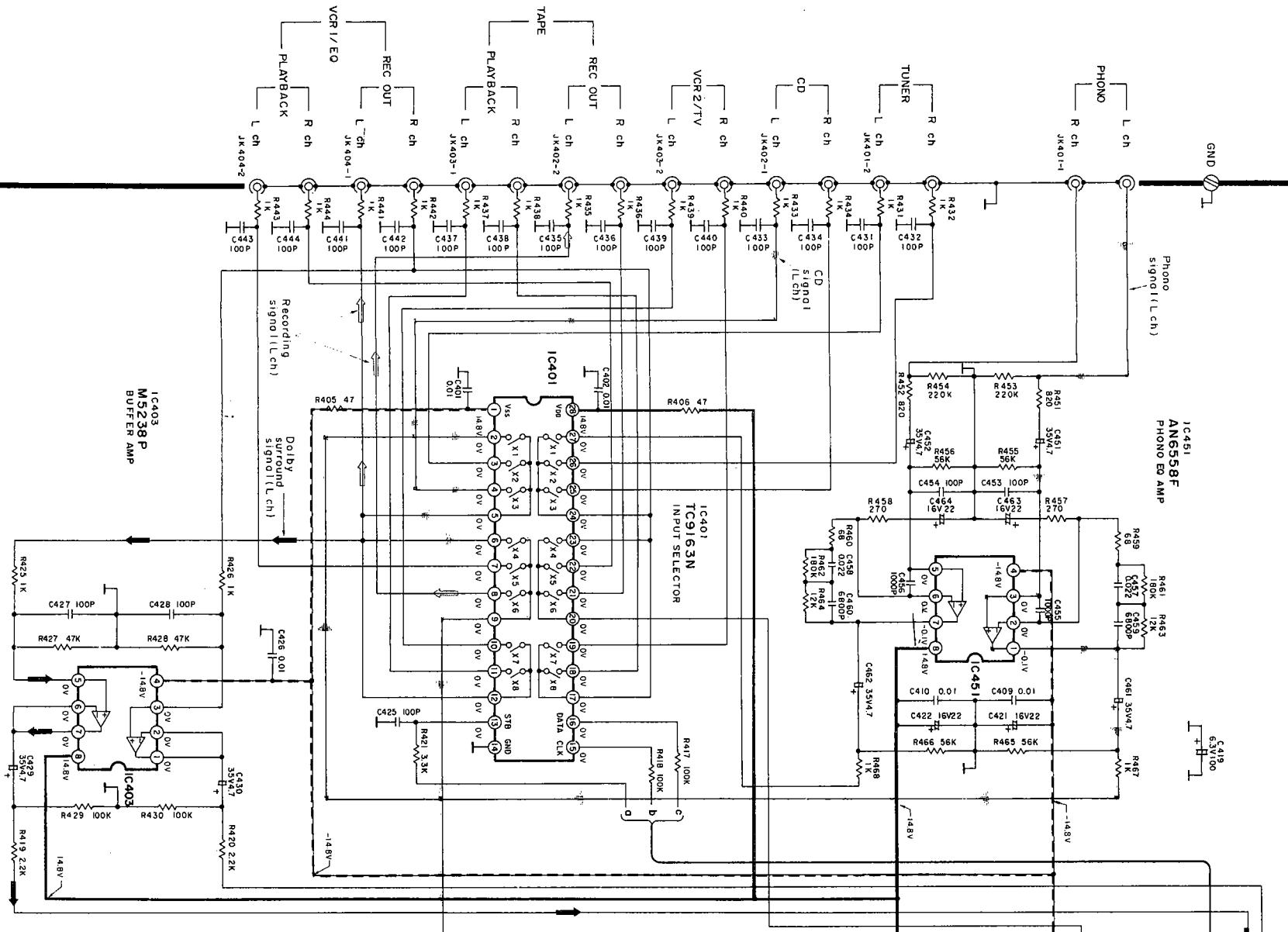
\*Cover the parts boxes made of plastics with aluminum foil.

\*Ground the soldering iron.

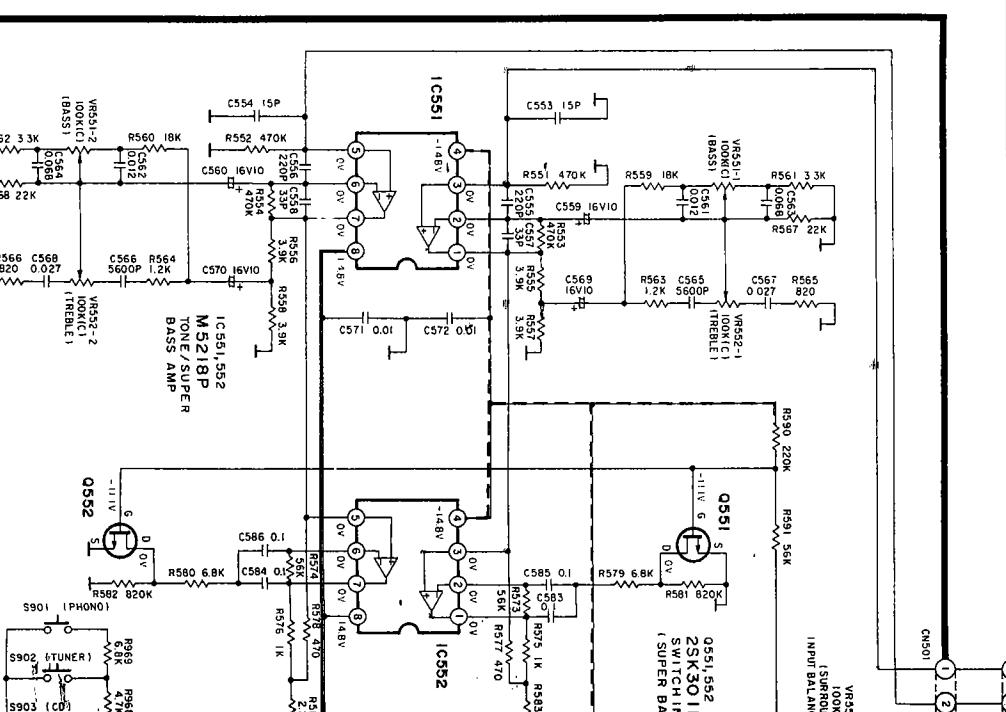
\*Put a conductive mat on the work table.

\*Do not touch the legs of IC or LSI with the fingers directly.

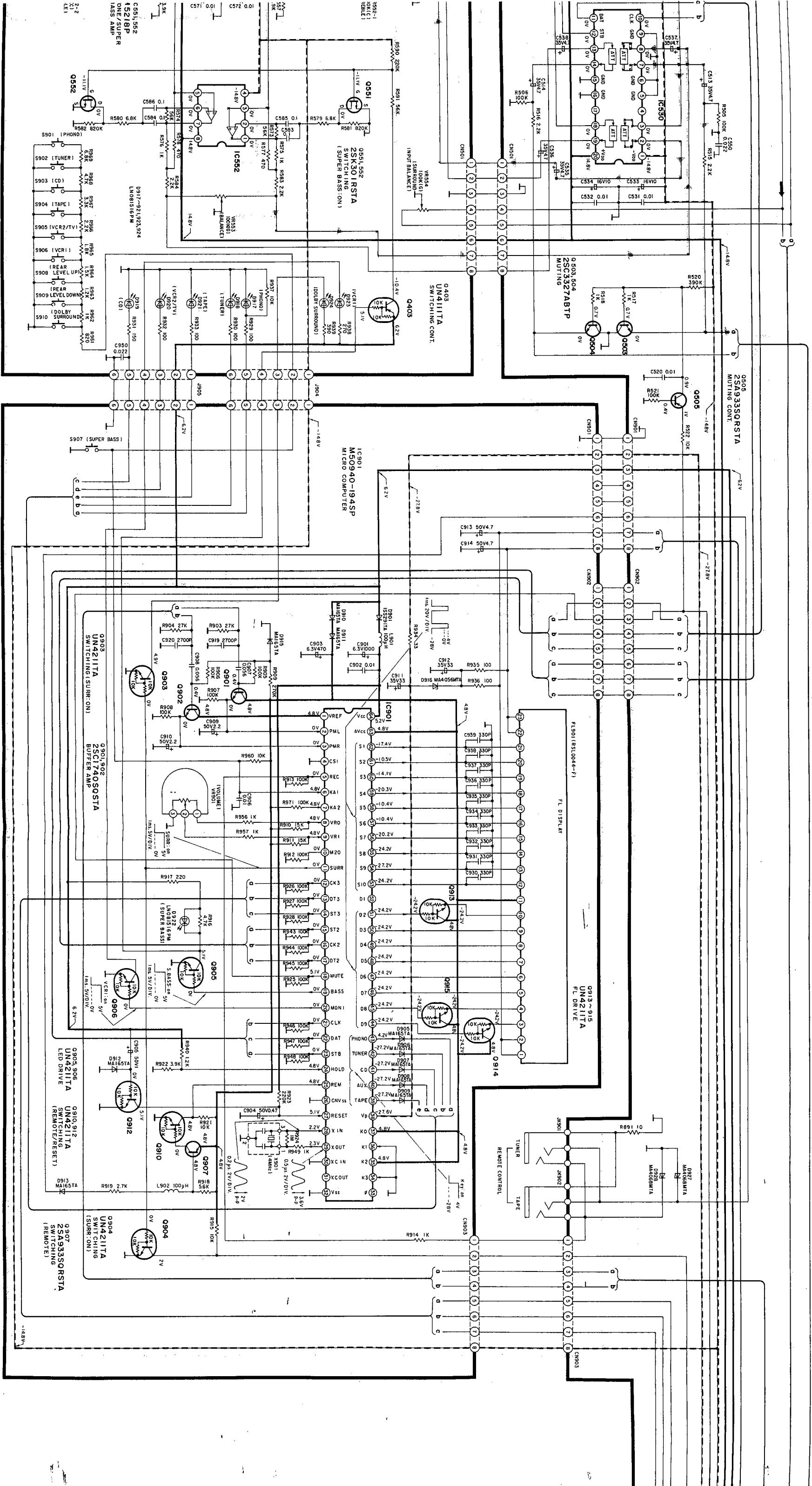
## A MAIN CIRCUIT



## B OPERATION CIRCUIT



1 2 3 4 5 6 7 8 9 10



C VOLUME/FL DRIVE CIRCUIT

# SU-G70

**SU-G70**

20

21

22

23

24

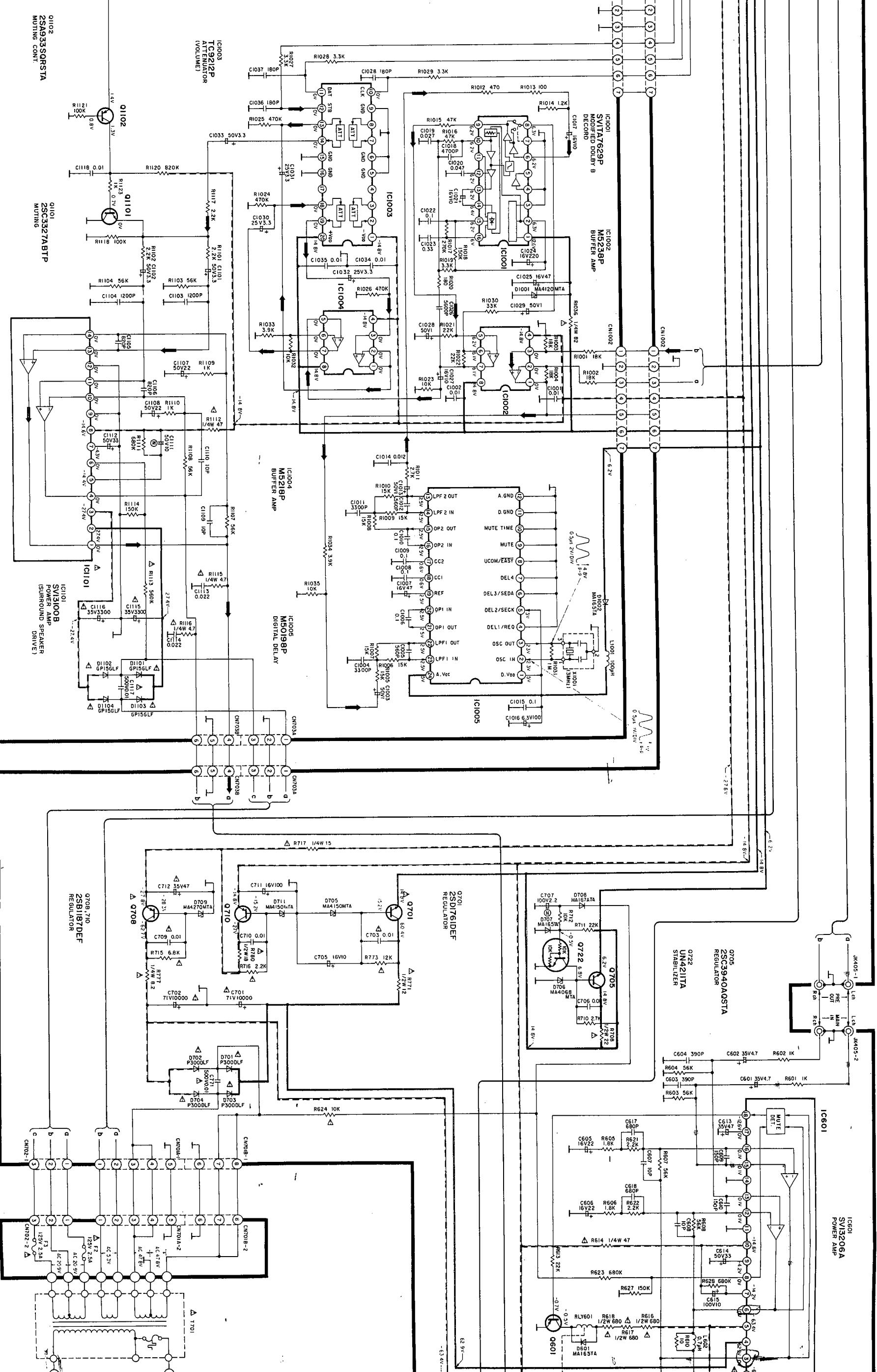
25

26

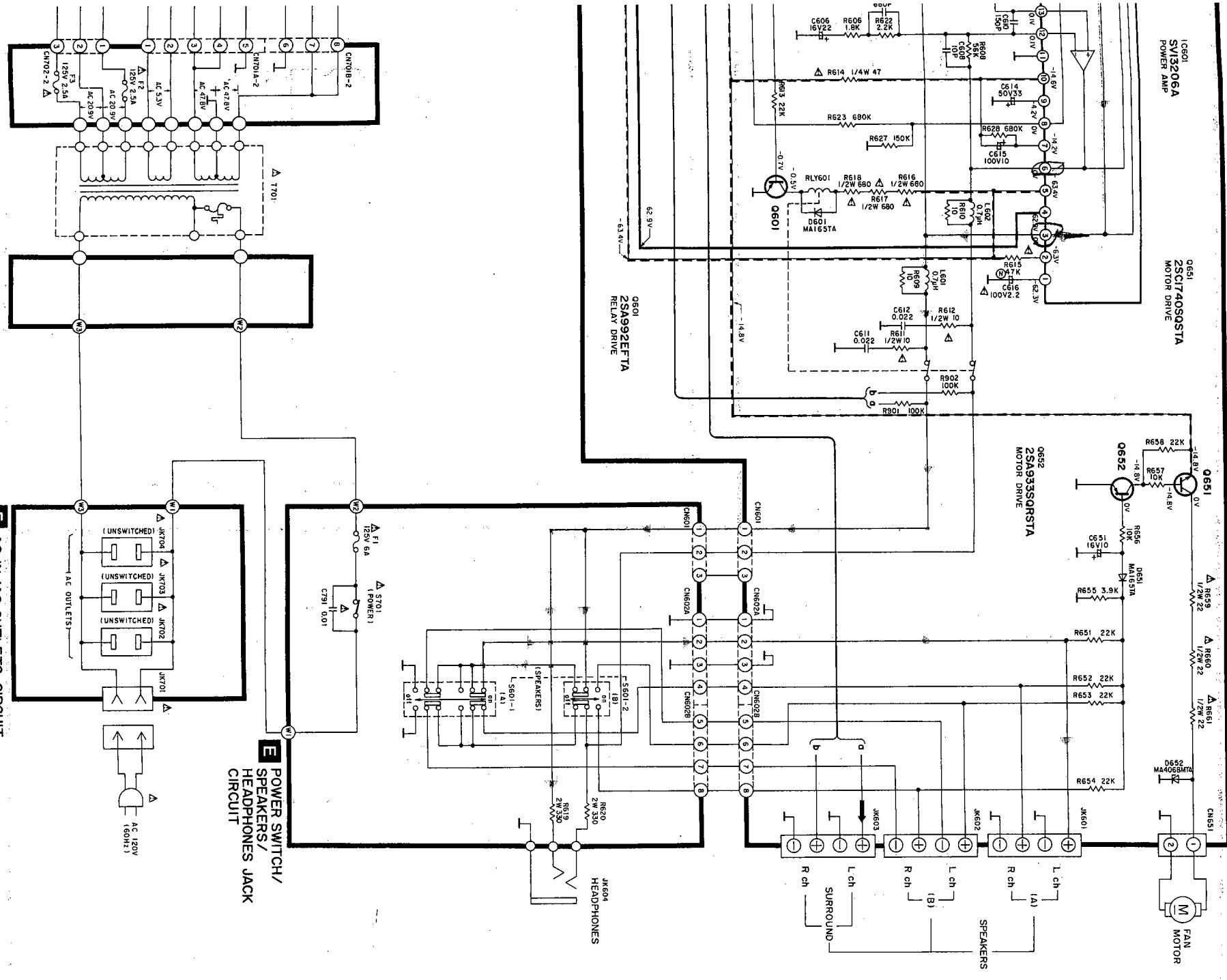
27

28

29



• TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES.



F AC IN/AC OUTLETS CIRCUIT

**FUSE CAUTION**

This symbol located near the fuse indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating, refer to the rating adjacent to the symbol.

**RISK OF FIRE-REPLACE FUSE AS MARKED.**

■ Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n'utiliser que des fusibles de même type. Ce dernier est indiqué là qu' le présent symbole est apposé

M5218P	M5238P	AN6558F
SV1747629P	TC9163N	M50940-194SP
TC9121P	UN4111TA	SV18100B
M50198P	MA167ATA	2SA992EFTA
2SC3940AQSTA	2SK301RSTA	2SA993SQSTA
2SD1761DEF	MA167ATA 1SS291TA	2SC3327ABTP
MA4120MTA MA4270MTA	P300DLF GP15GLF	MA4056MTA MA4068MTA
LN081516PM		

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS				ACCESSORIES	
1	RKM0016A-K	CABINET		A1	RQF0493	INSTRUCTIONS MANUAL ASS' Y	(P, P2)
2	SNE2129-1	SCREW		A1	RQF0693	INSTRUCTIONS MANUAL ASS' Y	(PC)
3	XTBS3+8JFZ1	SCREW		A1-1	RQT0397-P	INSTRUCTIONS MANUAL	(P, P2)
4	RGW0071	MAIN VOL KNOB		A1-1	RFKSUG7OPC-K	INSTRUCTIONS MANUAL	(PC)
5	RGW0072	TONE KNOB		A1-2	SQX7179	WARRANTY CARD	(P, P2)
6	RGW0073	DOLBY SURROUND KNOB		A1-2	SQX7183	WARRANTY CARD	(PC)
7	RGR0080B-A2	REAR PANEL		A1-3	SQX9129-1	SERVICENTOR LIST	(P, P2)
8	RGU0030	POWER BUTTON		A1-3	SQX9131	SERVICENTOR LIST	(PC)
9	SHR411	LATCH		A5	RAK-SA501P	REMOTE CONTROLLER ASS' Y	
10	RGU0101	SP BUTTON		A5-1	RKK0020-K	BATTERY COVER	
11	RGU0350	BUPER BASS BUTTON		A6	SWXS255	SP CORD	(P2)
12	RMA0295	ANGLE		A7	SJA172-2	AC CORD	△ (P, P2)
13	RGU0349	SELECT BUTTON		A7	SJA172-3	AC CORD	△ (PC)
14	RGU0351	DOLBY SURROUND BUTTON		A8	SJP2257T	REMOTE CORD	
15	SHE187-2	HOLDER					
16	SJP9205-2T	SHORTING PIN					
17	SJS9233A	AC OUTLET COVER					
18	SJS9234A	AC INLET COVER					
20	RFKJUG7OP-K	CHASSIS ASS' Y					
20-1	SKL293	FOOT					
21	SNE2123	GND SCREW					
22	SUS894-1	SPRING					
23	SYE1128-3	FAN ASS' Y					
23-1	SHE232	FAN					
23-2	SUS271	SPRING					
23-3	SHE233	FAN CASE					
23-4	MDN-4RB4MRC	MOTOR					
23-5	SHE234	CAP					
24	RFKNUG7OP-K1	PANEL LIGHT					
25	RFKNUG7OP-K2	PANEL LIGHT					
26	RFKNUG7OP-K3	PANEL LIGHT					
27	RFKGUG7OP-K	FRONT PANEL ASS' Y					
28	SHR9861	FL HOLDER					
30	RJR0011	FUSE HOLDER	△				
31	XTBS26+8J	SCREW					
32	XTB3+14J	SCREW					
33	XTB3+20J	SCREW					
34	XTB3+8JFZ	SCREW					
35	XTWS3+8T	SCREW					
		PACKING MATEIAL					
P1	RPG0425	CARTON BOX					
P2	RPN0324	PAD					
P3	XZB52X60A01Z	PROTECTION COVER					
P4	SPSD155	ACCESSORIES BOX					