

Service Manual

Amplifier

Amplifier

SU-CH7



**Because of unique interconnecting cables,
when a component requires service, send or
bring in the entire system.**

SPECIFICATIONS (DIN 45 500)

MAIN AMP. SECTION

Power output DIN 1 kHz THD 1% 6Ω 2×25 W
10 kHz THD 1% 8Ω 2×5 W

both channel driven at 240 V

Total harmonic distortion

half power at 1 kHz: Low Amp 0.09% (6Ω)
Headphones output level/impedance 300 mV/330Ω

PRE AMP. SECTION

Input sensitivity/impedance

PHONO	3 mV/47 kΩ
MIC	0.7 mV/10 kΩ
DAT	250 mV/27 kΩ

S/N (rated power, 6Ω): Low Amp

PHONO	70 dB (IHF. A 75 dB)
DAT, CD, TAPE	84 dB (IHF. A 85 dB)

Graphic equalizer control

80 Hz, 250 Hz, 1 kHz, 4 kHz, 12.5 kHz	-20 dB
Muting	

Super bass

Output voltage/impedance	55 Hz, +4 dB
DAT REC OUT	150 mV

GENERAL

Power consumption 250 W**Power supply**

For Great Britain and Oceania AC 50/60 Hz, 230~240 V

For F.R. Germany, Italy and Continental Europe

AC 50/60 Hz, 230 V

For others AC 50/60 Hz, 110 V~127 V/220 V~240 V

Dimensions (W×H×D) 215×110×303 mm
(8¹⁵/₃₂"×41¹/₃₂"×11¹⁵/₁₆")**Weight** 4.3 kg (9.3 lb.)**Notes:**

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

Color

(K) Black Type

Areas

Country Code	Area	Color
(E)	Continental Europe.	(K)
(EB)	Great Britain.	
(EG)	F.R. Germany and Italy.	
(GC)	Asia, Latin America, Middle Near East and Africa.	
(GN)	Oceania.	

System: SC-CH7

Technics/Panasonic

(E) (EB) (EG)

(GC) (GN)

System	Tuner	Amplifier	CD Player	Cassette Deck	Speakers
SC-CH7	ST-CH7L	SU-CH7	SL-CH7	RS-CH7	SB-CH7

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■ BEFORE REPAIR

- (1) Turn off the power supply. Using a 10Ω, 5 W resistor connect both ends of power supply capacitors (C703, C704) 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 50 Hz/60 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 110 V~127 V/220 V~240 V.

Power supply voltage	AC 120 V	AC 240 V
Consumed current 50 Hz	—	85~255 mA
Consumed current 60 Hz	160~480 mA	—

■ 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.

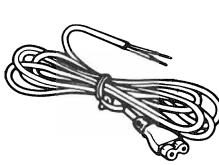
If this occurs, follow the procedure outlined below:

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

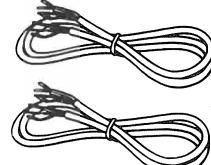
Note:

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

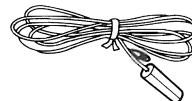
■ ACCESSORIES



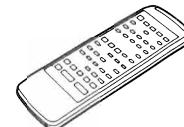
•AC power supply cords (1)
<SFDAC05E03>
for (E, EG) area
<SJA193> for (EB) area
<RJA0004> for (GC) area
<SJA173> for (GN) area



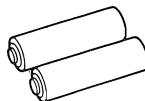
•Speaker cords (2)
<REC201B50Q-1>



•FM indoor antenna (1)
<SSA270M>
for (E, EB, EG) area
<SSA272M> for (GC, GN) area



•Remote control transmitter (1)
<RAK-SC510W>
for (E, EB, EG) area
<RAK-SC511W>
for (GC, GN) area

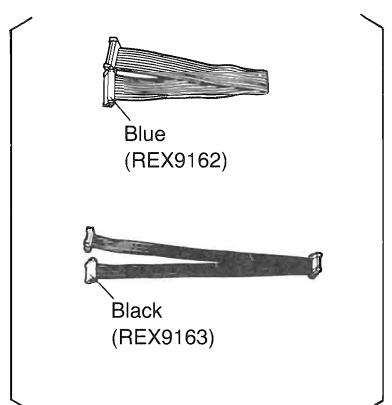


•Remote control batteries (2)
(UM-4, "AAA", R03)

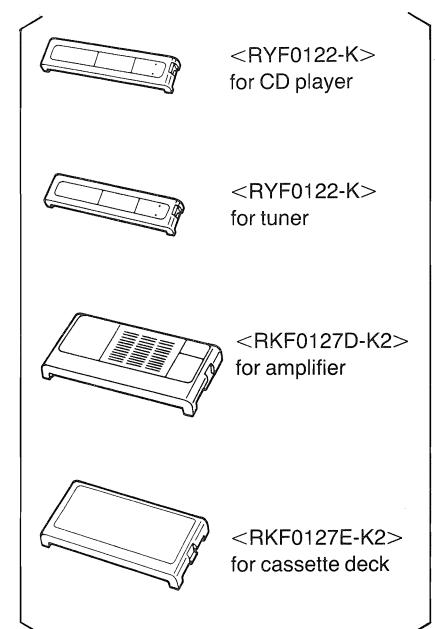


•Attachment plug (1)
<SJP9009> for (EB) area

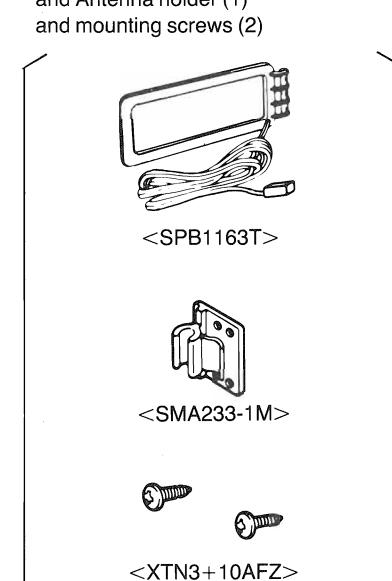
• Flat cables (2)



• Back cover (4)

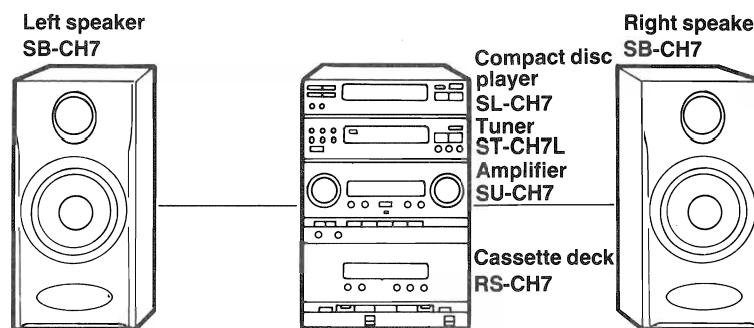


• LW/MW loop antenna (1)
and Antenna holder (1)
and mounting screws (2)

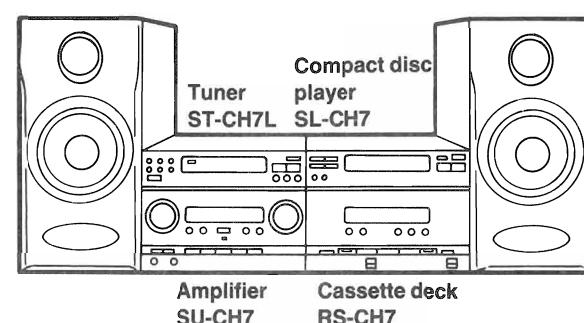


■ HOW TO INSTALL THE SYSTEM

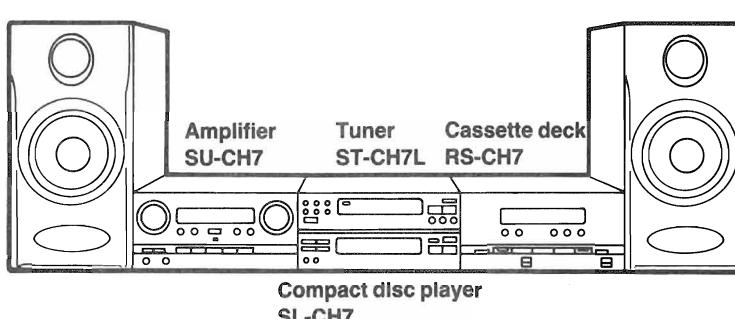
Installing the components vertically



Installing the components horizontally



Installing the components on a line



■ CONNECTIONS

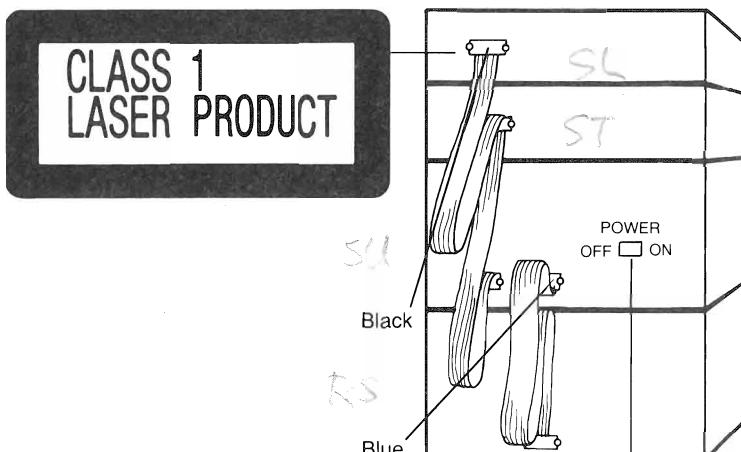
Flat cables

After connection, please fold and press the cables as flat to the back of the unit as possible.

From the amplifier to the cassette deck



From the compact disc player via the tuner to the amplifier

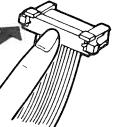


CLASS 1 LASER PRODUCT

Power switch is located on the rear panel.
Make sure that the power switch on the back of the amplifier is switched ON.

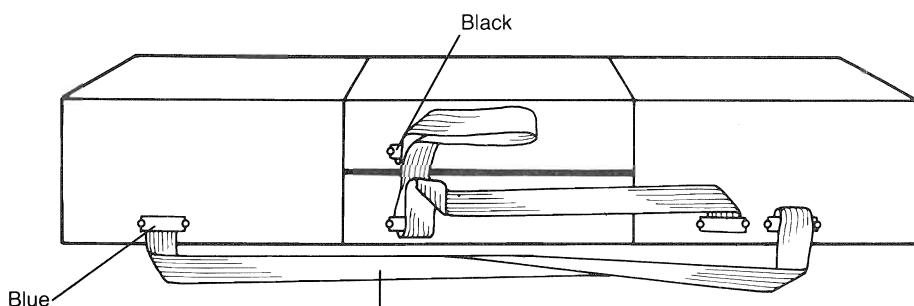
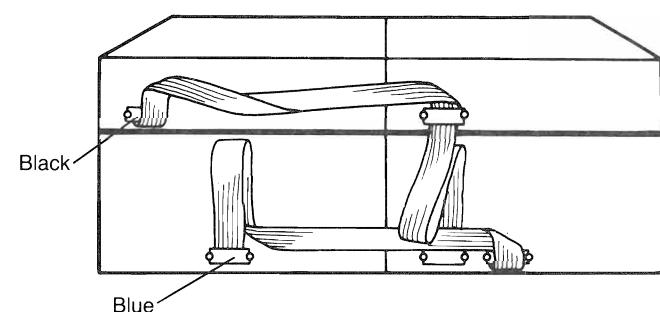
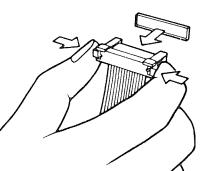
Connecting

Hold the connector with the recessed part up and press in at the center until you hear a click.



The white line should be on the right side.

Disconnecting

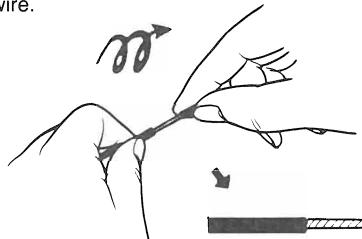


When installing the back cover, put this flat cable out of the back cover.

Speaker cables

Other types of speaker cannot be connected to this unit.
Match the four wires from the left and right speaker cables with the same colored levers of the speaker terminals, then insert the wires into the respective terminals.

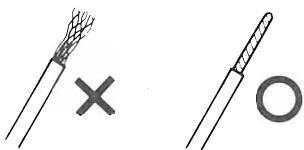
- ① Twist the wire.



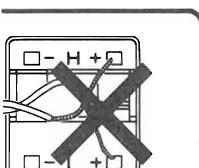
- ② Push down on the lever, insert the bare ends of the wires, and push up the lever. (Refer to the right)

Note:

- Make sure the bare ends of the wires are not unraveled. (If they are, twist them tight again.)



- Take care not to short the wires. (The main unit could be damaged if they are shorted.)



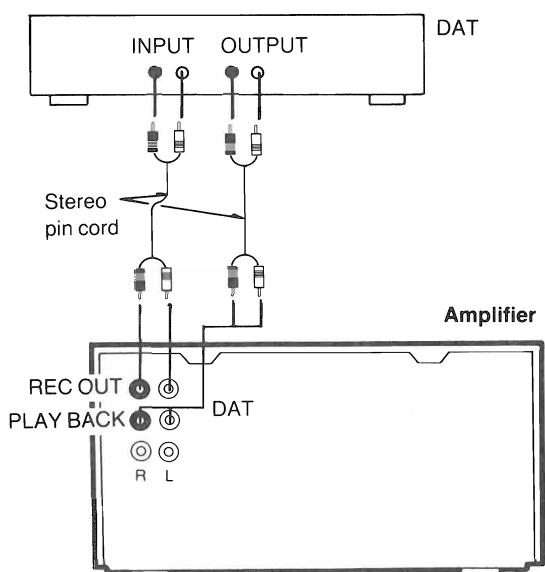
Notice for speaker connections:

Connect each color coded wire of the speaker cable to the corresponding color coded terminal according to the following chart.

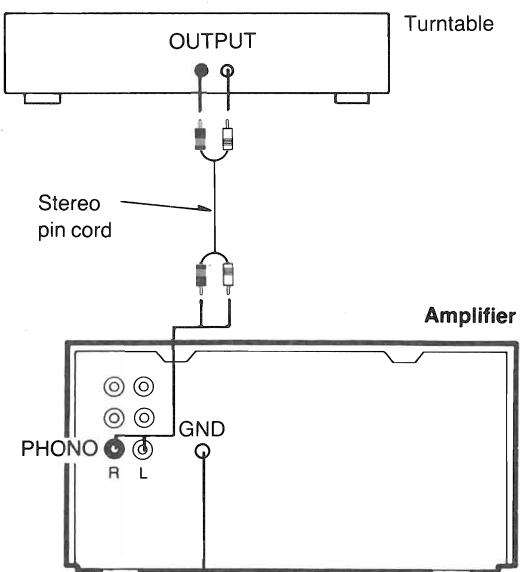
Polarity	-	+
High tone	Blue	Gray
Low tone	Black	Red

External unit connection

DAT (digital audio tape deck)



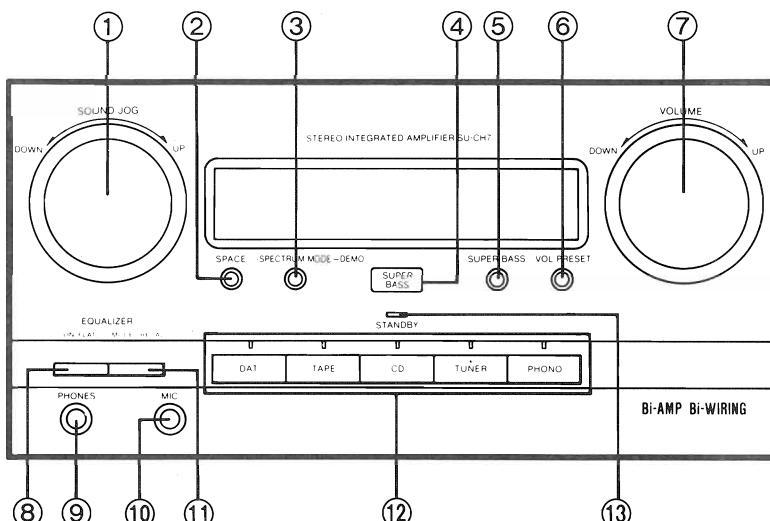
PHONO (turntable system)



“GND” terminal

This terminal is for use with turntables which have a ground wire.

■ LOCATION OF CONTROLS



Amplifier: control section

① Sound effect level control (SOUND JOG)

This control is used for adjusting the level of the ambience enhancement effect and the equalization level.

② Ambience enhancement button (SPACE)

This button is used to activate ambience enhancement mode.

③ Spectrum mode-select/demonstration button (-SPECTRUM MODE—DEMO)

This button is used to select one of the six spectrum curves. If you press and hold this button, six types of sound effects (spectrum curve in combination with ambience enhancement) will be sequentially changed (Demonstration mode).

④ Super bass indicator

Illuminates when the super bass mode is activated.

⑤ Super bass button (SUPER BASS)

When this button is pressed, the dynamic low frequency ranges are boosted.

⑥ Volume preset button (VOL. PRESET)

This button is used to make a volume presetting.

⑦ Volume level control (VOLUME)

This control is used to adjust the volume level (-82 dB~0 dB). Note that -82 dB is the lowest volume setting and 0 dB is the highest level setting.

⑧ Equalization function button (ON/FLAT)

This button is used to switch the equalization correction function. If no equalization correction is desired, press this button again to cancel the function.

⑨ Headphones jack (PHONES)

⑩ Microphone jack (MIC)

⑪ Equalization mode-select/recall button (-MODE—RECALL)

This button is used to retrieve a pre-programmed equalization curve from the memory. If you press and hold this button, a curve you programmed can be retrieved.

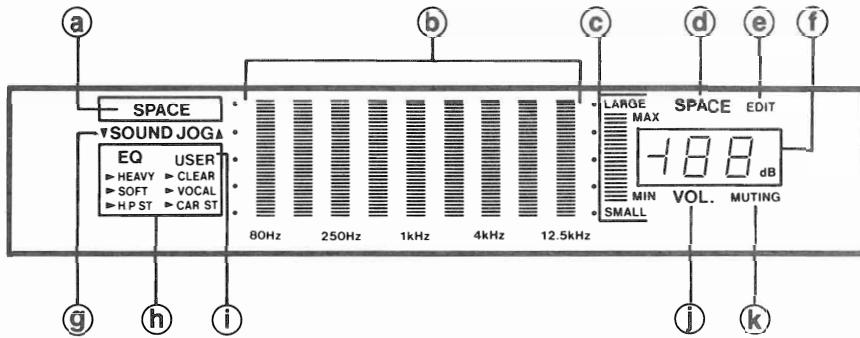
⑫ Input selectors and indicators

These selectors are used to select the sound source to be heard. When the sound source is selected, the indicator above the selector will illuminate.

⑬ Standby indicator (STANDBY)

This indicator illuminates when the power “STANDBY/ON” switch of the unit or that of the remote control is switched “OFF”. Its purpose is to alert the user of the constant supply voltage to the internal circuitry even with the power switch OFF.

For this unit, even if this switch is switched to the “STANDBY” position, there is still a slight power consumption of about 17 watts: this is in order to retain of the “most recent” memory and the preset-memory functions.



Amplifier: display section

(a) Ambience enhancement mode indicator (SPACE)

Illuminates when the ambience enhancement mode is activated.

(b) Spectrum analysis display

This display shows the spectrum analysis level.

(c) Level meter

Display the volume level as it is being adjusted by the volume control. When adjusting the level of the ambience enhancement effect with the sound effect level control, the display shows the level of the ambience enhancement effect.

(d) Ambience enhancement adjustment indicator (SPACE)

Illuminates when adjusting the level of the ambience enhancement effect.

(e) CD edit indicator (EDIT)

Illuminates when making an edit-recording of a compact disc.

(f) Volume level display

Displays the volume level.

(g) Sound effect indicator (▼ SOUND JOG ▲)

When "▼" illuminates, it shows the equalization curves can be adjusted, and when "▲" illuminates, it shows that the ambience enhancement effect can be adjusted.

(h) Equalization mode indicators (HEAVY-CAR ST)

These indicators show which of the six equalization curves is currently used.

(i) "USER" indicator (USER)

This indicator illuminates to show that the desired equalization curves can be programmed into memory or retrieved from the memory.

(j) Volume indicator (VOL.)

Illuminates when adjusting the volume level.

(k) Muting indicator (MUTING)

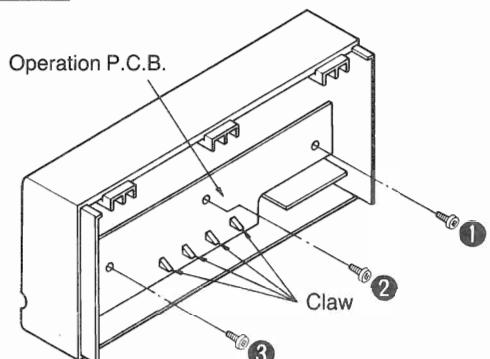
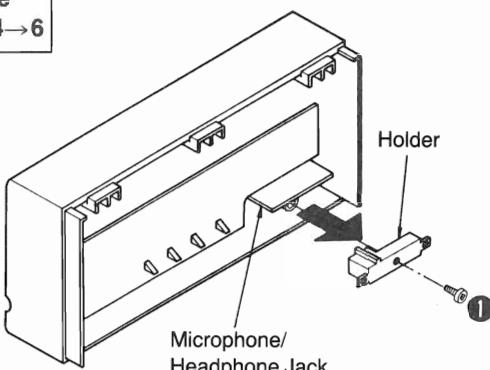
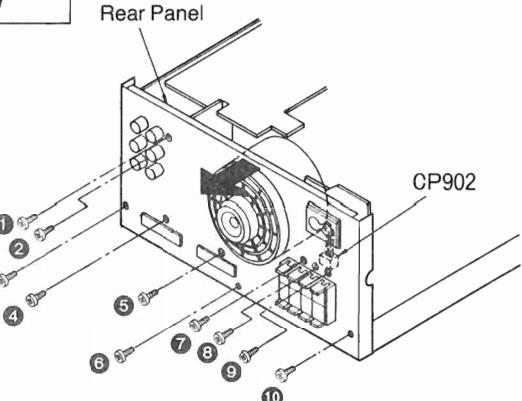
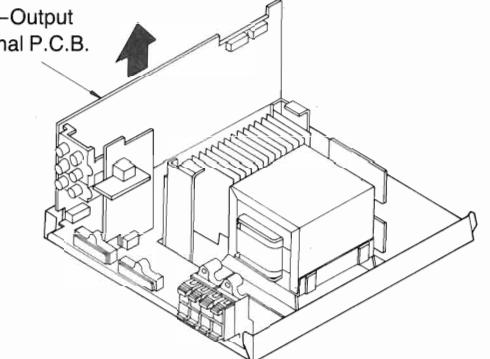
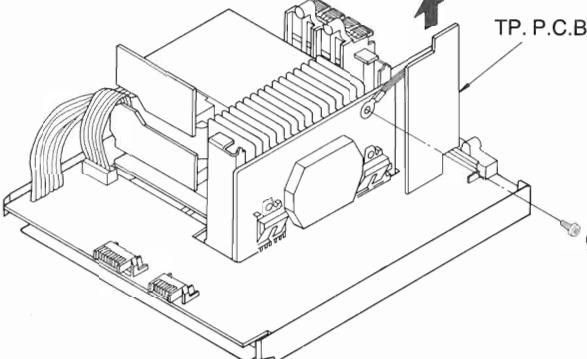
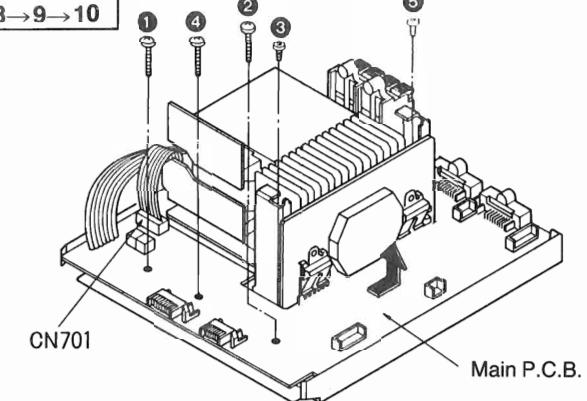
Illuminates when the muting mode is activated.

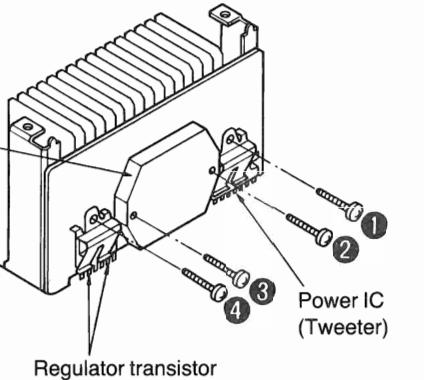
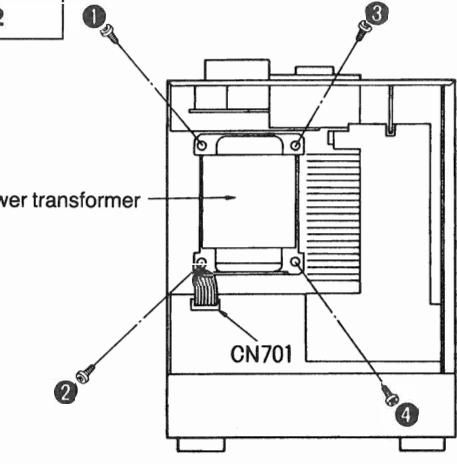
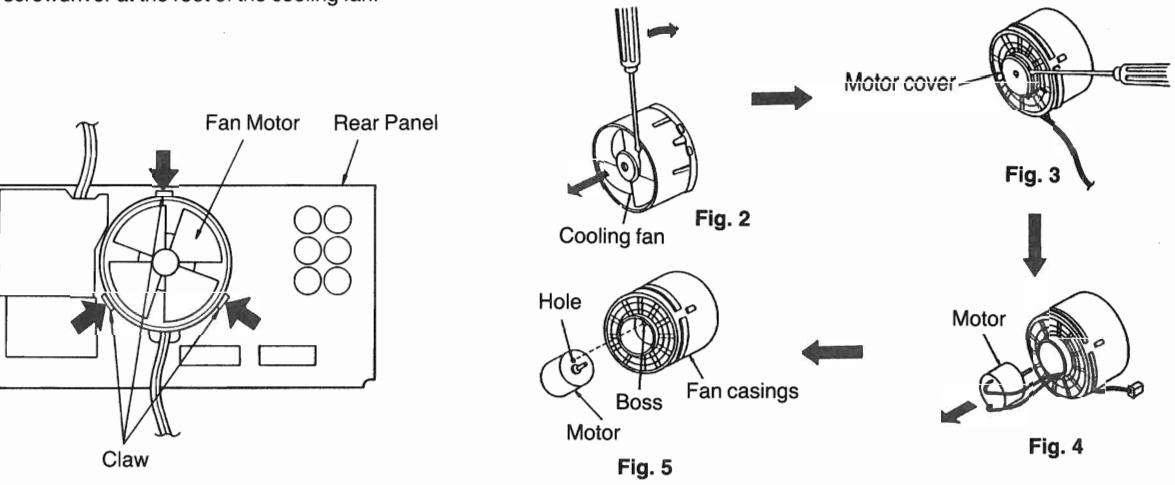
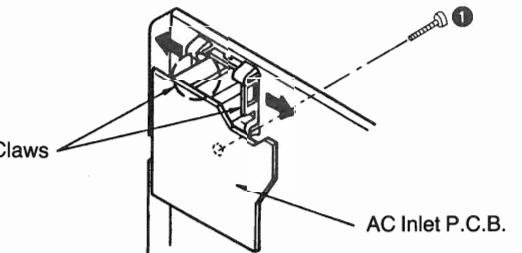
■ DISASSEMBLY INSTRUCTIONS

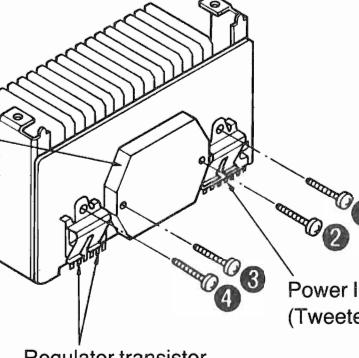
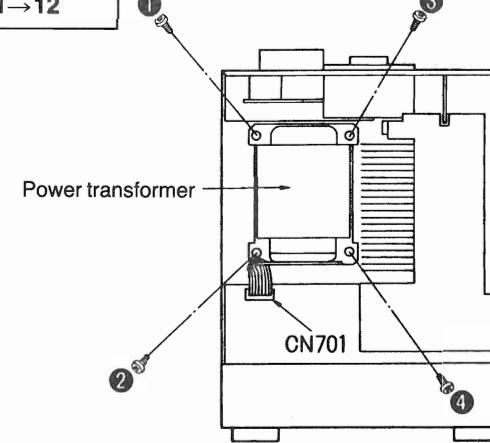
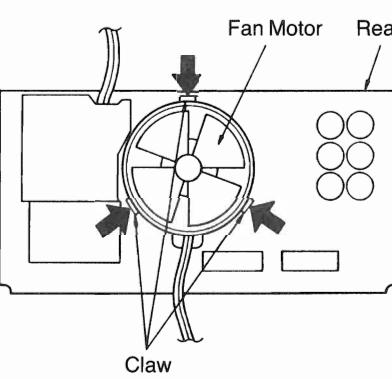
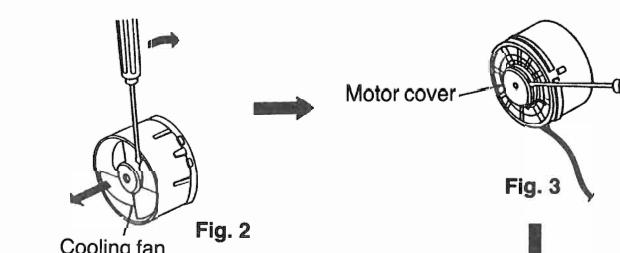
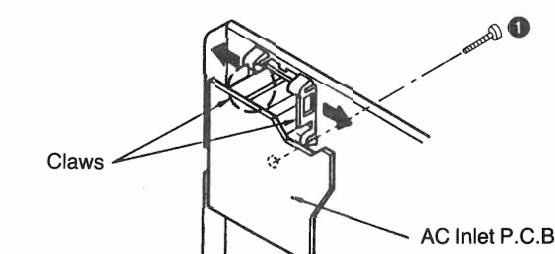
“ATTENTION SERVICER”

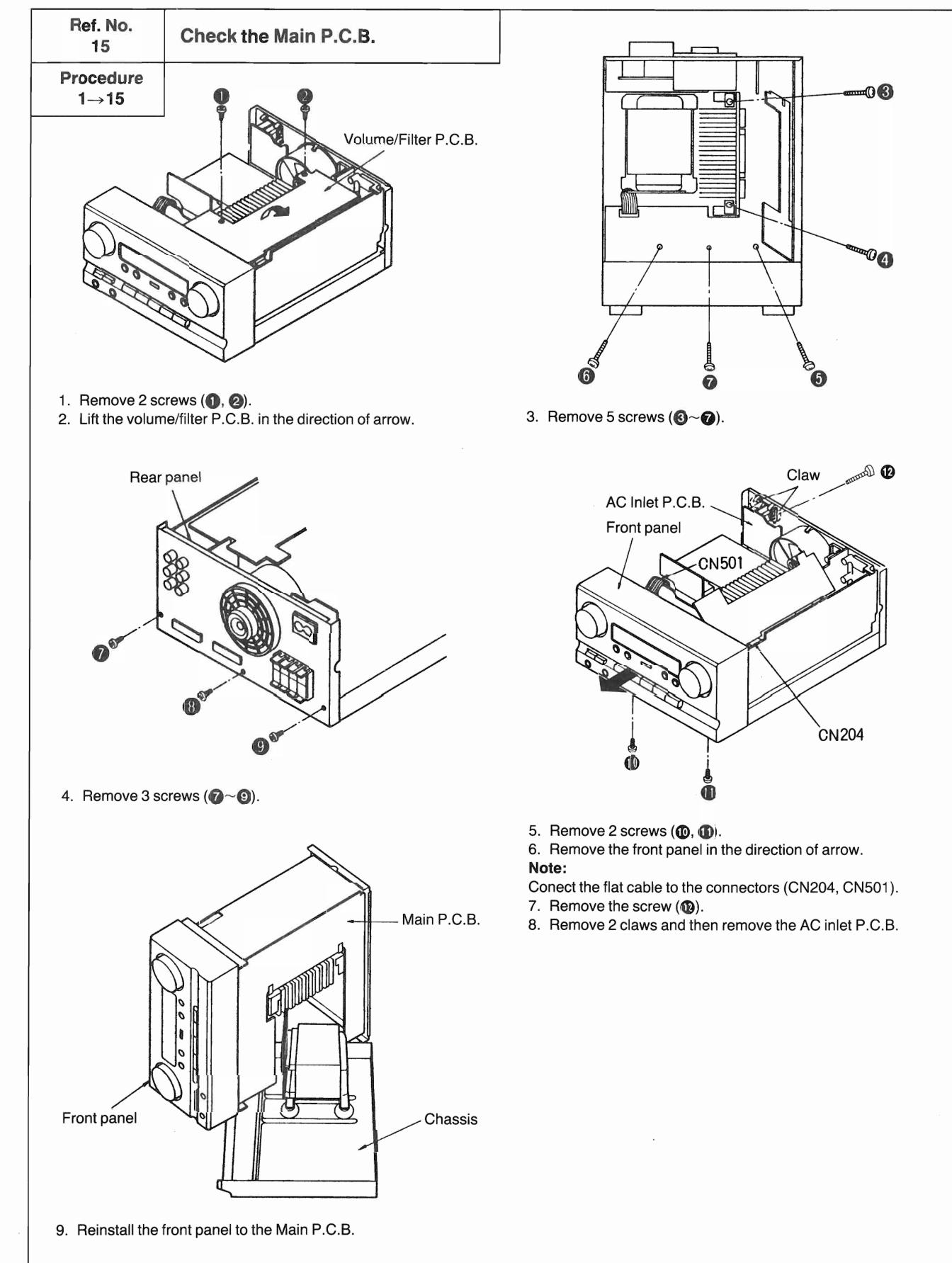
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

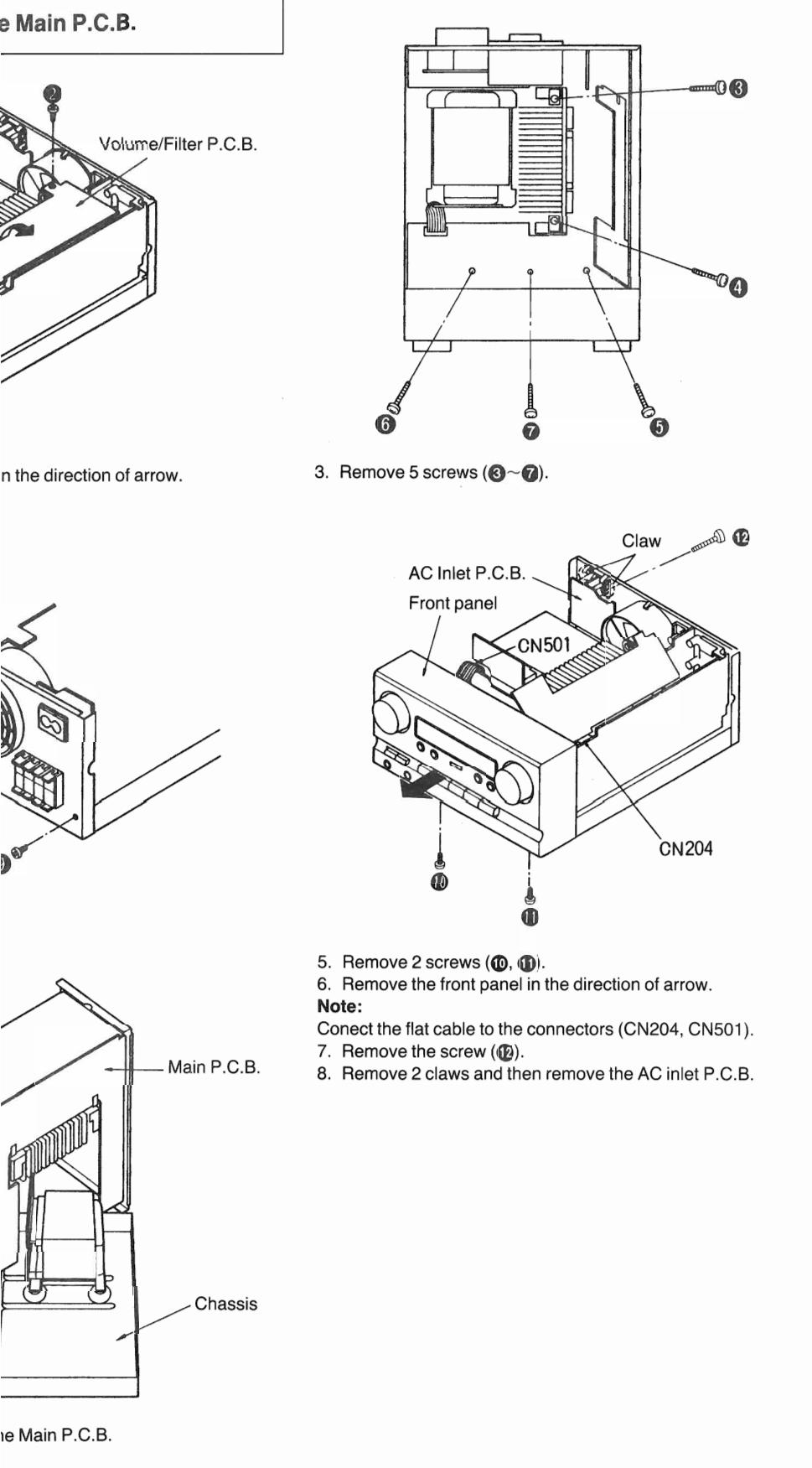
Ref. No. 1	Removal of the Cabinet	Ref. No. 2	Removal of the Volume/Filter P.C.B.
Procedure 1		Procedure 1→2	
	<p>• Remove 6 screws (①~⑥).</p>		<p>1. Remove 2 screws (①, ②). 2. Remove the front panel in the direction of arrow.</p>
Ref. No. 3	Removal of the Front Panel		
Procedure 1→2→3	<p>1. Remove 2 flat cables (CN204, CN501).</p>		<p>2. Remove the 2 screws (①, ②). 3. Remove the front panel in the direction of arrow.</p>
Ref. No. 4	Removal of the FL P.C.B.		
Procedure 1→2→3→4			<p>1. Remove the volume knob and nut. 2. Remove the sound jog knob and nut. 3. Remove 3 screws (①~③). 4. Remove the P.C.B. in the direction of arrow, making sure not to damage the connectors (CP604, CP605, CP606).</p>

Ref. No. 5	Removal of the Operation P.C.B.	Ref. No. 6	Removal of the Microphone/ Headphone Jack P.C.B.
	Procedure 1→2→3→4→5		Procedure 1→2→3→4→6
			
	1. Remove 3 screws (1~3). 2. Remove 4 claws.	1. Remove the screw (1). 2. Remove the holder. 3. Remove the P.C.B. in the direction of arrow.	
Ref. No. 7	Removal of the Rear Panel	Ref. No. 8	Removal of the Input–Output terminal P.C.B.
	Procedure 1→7		Procedure 1→2→3→7→8
			
	1. Remove 10 screws (1~10). 2. Remove the connector (CP902). 3. Remove the rear panel in the direction of arrow.	• Remove the P.C.B. in the direction of arrow.	
Ref. No. 9	Removal of the TP. P.C.B.	Ref. No. 10	Removal of the Main P.C.B.
	Procedure 1→2→3→ 7→8→9		Procedure 1→2→3→ 7→8→9→10
			
	1. Remove the screw (1). 2. Remove the P.C.B. in the direction of arrow.	1. Remove the flat cable (CN701). 2. Remove 5 screws (1~5).	

Ref. No. 11	Removal of the Power IC and Regulator Transistor	Ref. No. 12	Removal of the Power Transformer
	Procedure 1→2→3→ 7→8→9→10		Procedure 1→12
			
	1. Unsolder the power IC. 2. Remove 4 screws (1~4). • When mounting the power IC or regulator transistor. Apply silicone compound (SZZOL155) to the rear side of power IC or regulator transistor.	1. Remove the flat cable (CN701). 2. Remove the 4 screws (1~4).	
Ref. No. 13	Removal of the Fan Motor		Procedure 1→7→13
	Procedure 1→7→13		3. Remove the motor cover (shown in Fig. 3). 4. Remove the motor from the fan casing (shown in Fig. 4). 5. When mounting the motor fan, align the fan casings projection with the hole of the fan motor (shown in Fig. 5).
	1. Release the 3 claws (shown in Fig. 1). 2. Insert a screwdriver at the root of the cooling fan.		
Ref. No. 14	Removal of AC Inlet P.C.B.		
	Procedure 1→14		1. Remove the screw (1). 2. Remove 2 claws.
			

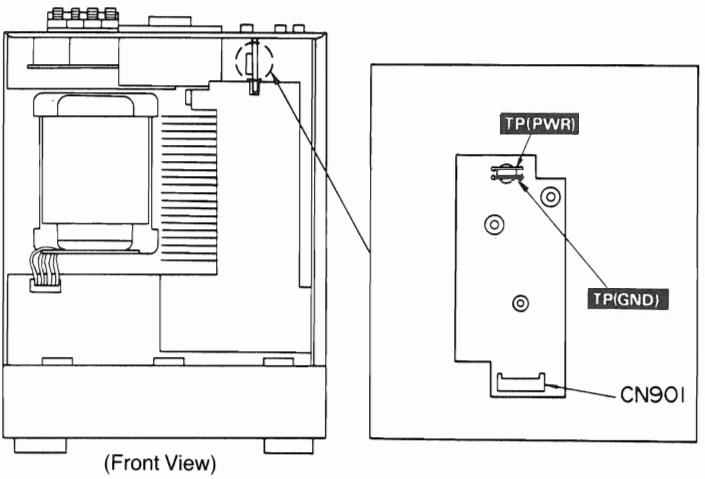
Ref. No. 11	Removal of the Power IC and Regulator Transistor	Ref. No. 12	Removal of the Power Transformer		
Procedure 1→2→3→ 7→8→9→10			Procedure 1→12		
 <p>Power IC (Woofer) Regulator transistor Power IC (Tweeter)</p>			 <p>Power transformer CN701</p>		
<p>1. Unsolder the power IC. 2. Remove 4 screws (1~4). ● When mounting the power IC or regulator transistor. Apply silicone compound (SZZOL155) to the rear side of power IC or regulator transistor.</p>			<p>1. Remove the flat cable (CN701). 2. Remove the 4 screws (1~4).</p>		
Ref. No. 13	Removal of the Fan Motor			<p>3. Remove the motor cover (shown in Fig. 3). 4. Remove the motor from the fan casing (shown in Fig. 4). 5. When mounting the motor fan, align the fan casings projection with the hole of the fan motor (shown in Fig. 5).</p>	
Procedure 1→7→13		<p>1. Release the 3 claws (shown in Fig. 1). 2. Insert a screwdriver at the root of the cooling fan.</p>     			
Ref. No. 14	Removal of AC Inlet P.C.B.			<p>1. Remove the screw (1). 2. Remove 2 claws.</p>	
 <p>Claws AC Inlet P.C.B.</p>					





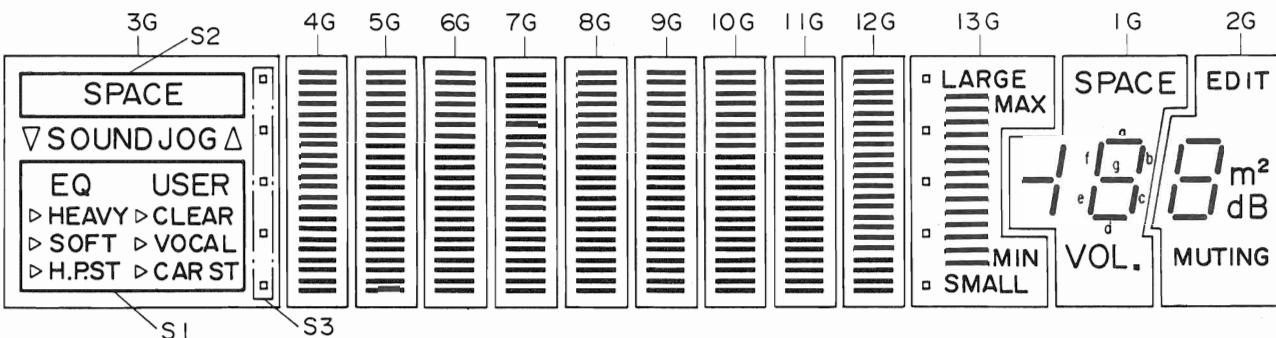
Set the Power switch of rear panel "ON" position.
For (E), (EB), (EG), (GN) areas.

between **TP(GND)** and **TP(PWR)** on the control terminal P.C.B. for power on and off.



■ DESCRIPTION OF FL PANEL

• Grid assignment



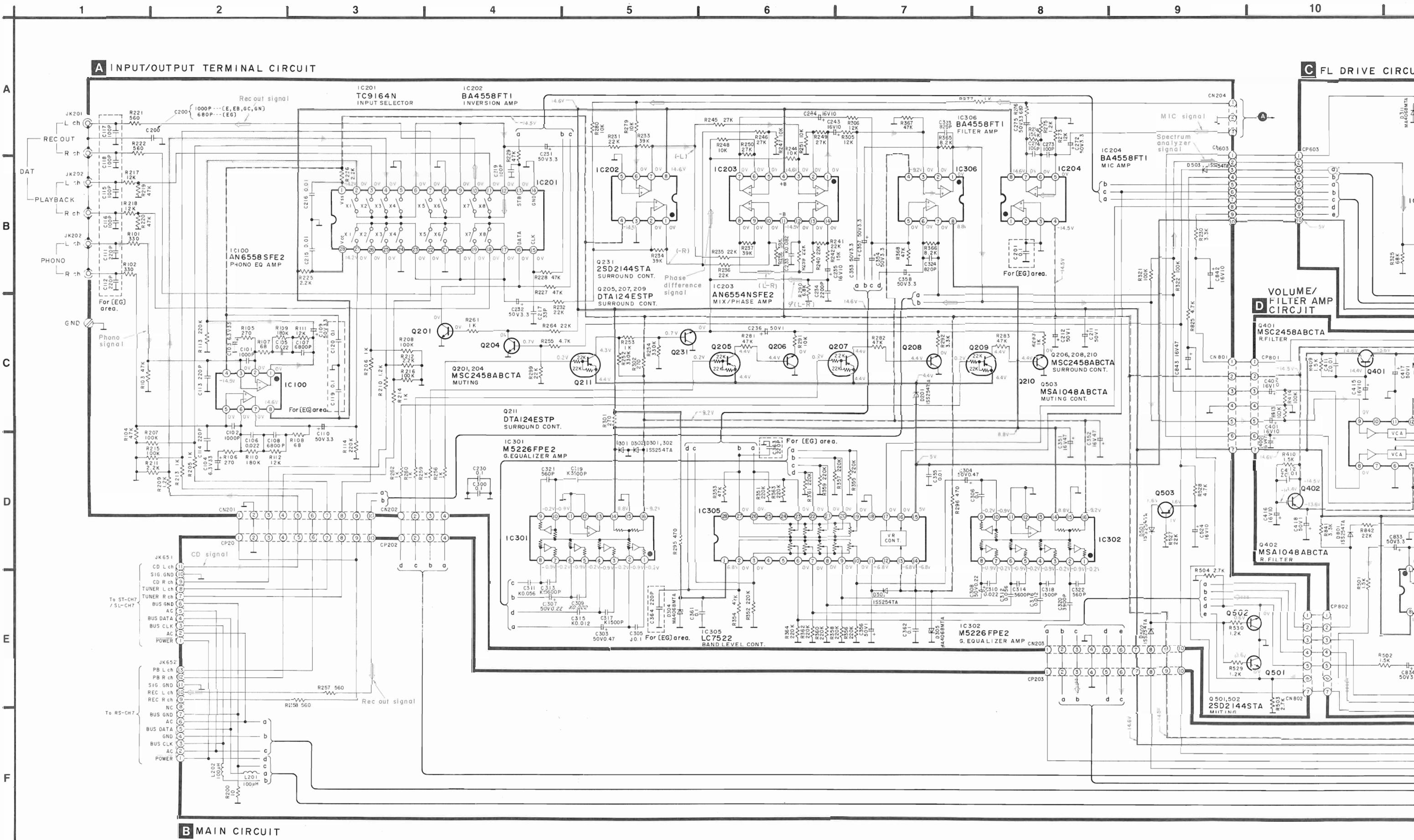
• Pin connection

Pin No.	3	3	3	3	3	3	3	3	3	2	0	9	2	8	2	7	2	6	2	5	2	4	2	3	2	2	1	2	0	9	1	8	1	7	1	6	1	5	4	3	2	1
Connection	F 2	F 2	N P	N P	P 1	P 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9	P 0	P 1	P 1	P 1	N P	N P	N P	N P	N G	2	3	4	5	6	7	8	9	0	1	1	2	3	N P	N F	1	1			

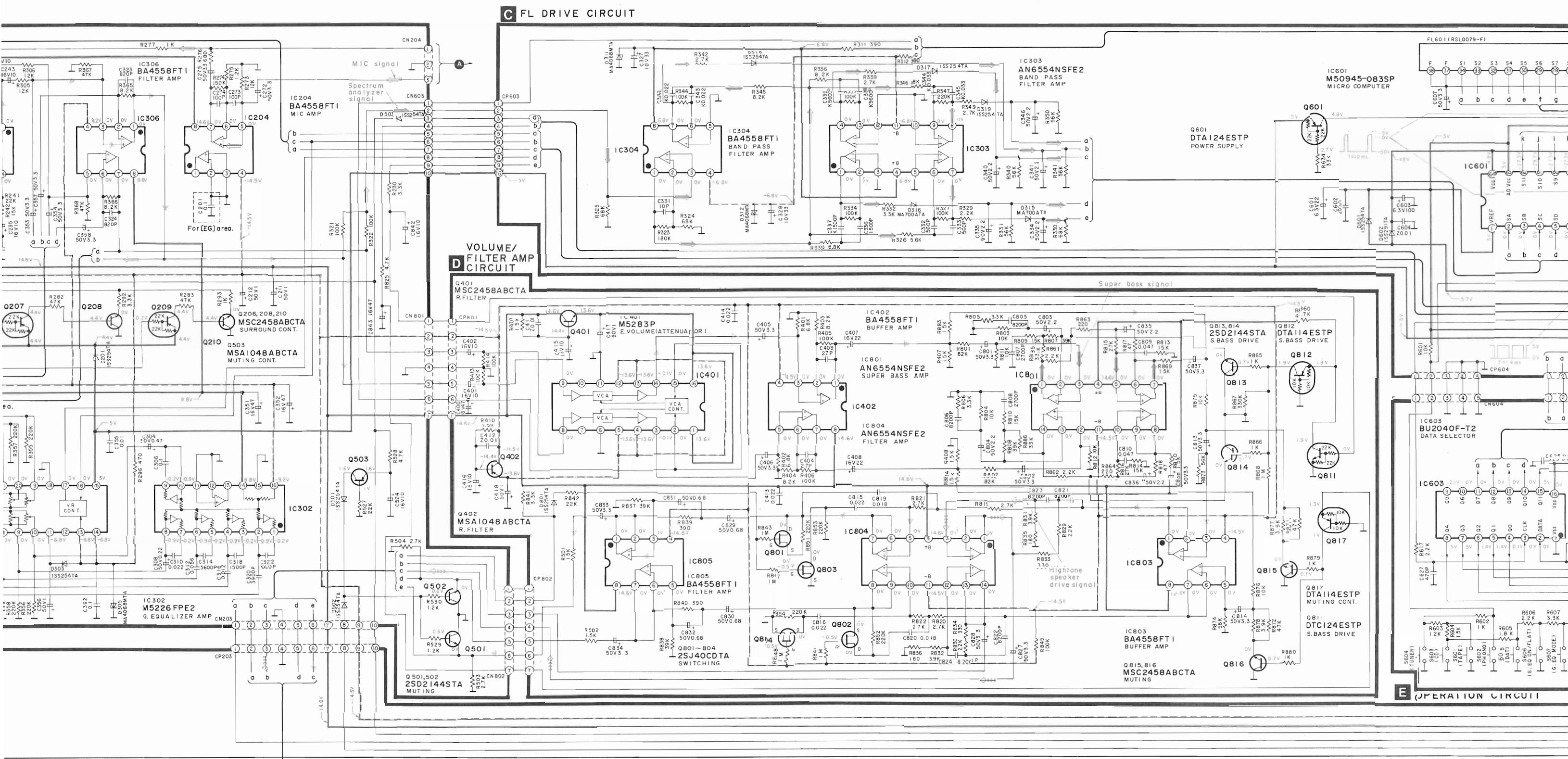
• Anode connection

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G
P1	a	a	▷ (HEAVY)	B8	B7								
P2	b	b	▷ (CLEAR)	B7	B6								
P3	c	c	▷ (H.P.ST)	B4	B3								
P4	d	d	S1	B2	B1								
P5	e	e	▷ (CAR ST)	B3	B2								
P6	f	f	▷ (SOFT)	B6	B5								
P7	g	g	▷ (VOCAL)	B5	B4								
P8		dB	S2	B1	-								
P9	-	m'	USER	B9	MAX MINI								
P10	SPACE	EDIT	△	B10	LARGE SMALL								
P11	VOL.	MUTING	▽	B11	-								
P12	-	-	SPACE SOUND JOG EQ HEAVY CLEAR SOFT VOCAL H.P.ST CAR ST S3	-	-	-	-	-	-	-	-	-	S4

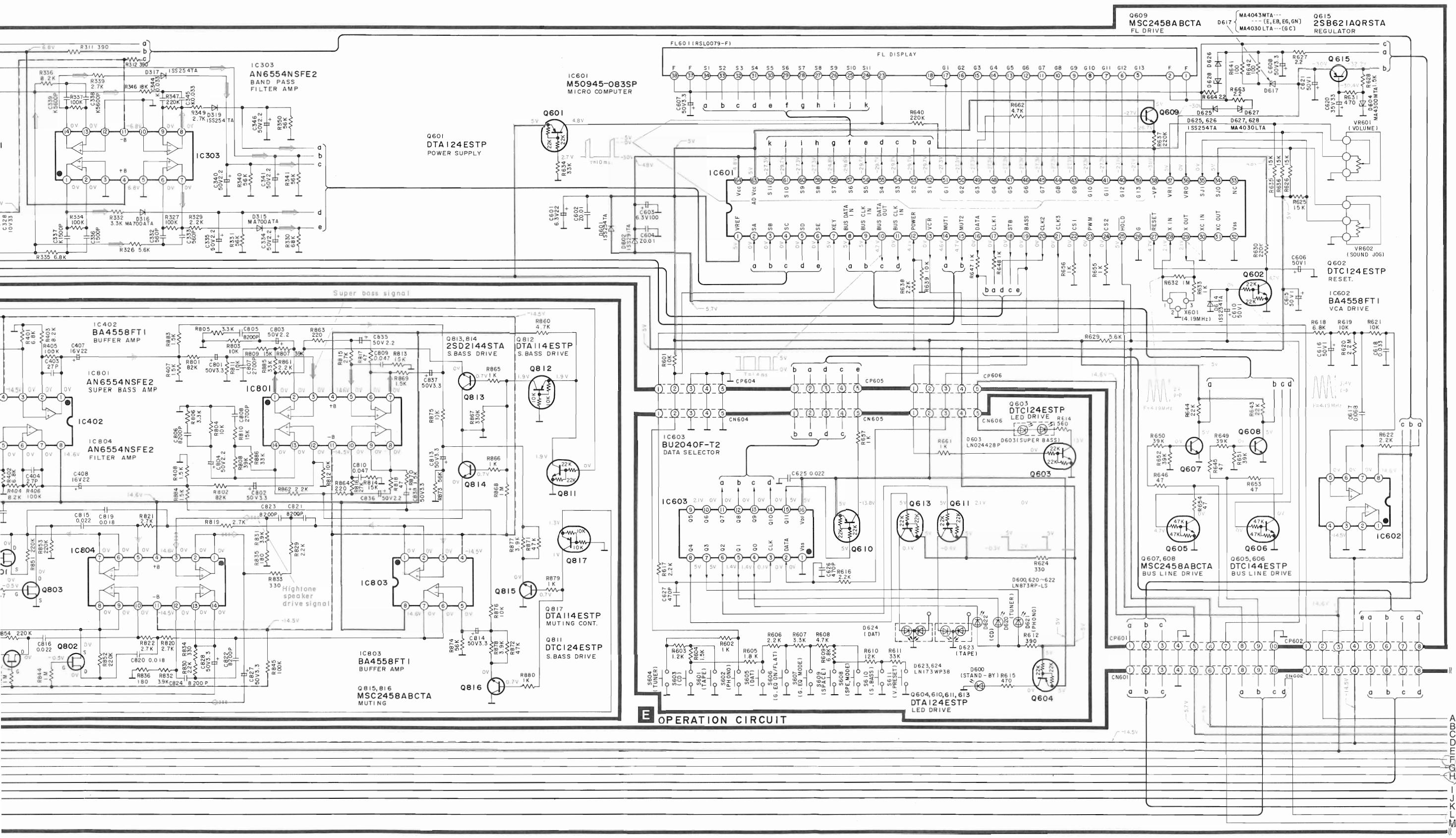
■ SCHEMATIC DIAGRAM (Parts list on pages 30~35.)



7 8 9 10 11 12 13 14 15 16 17

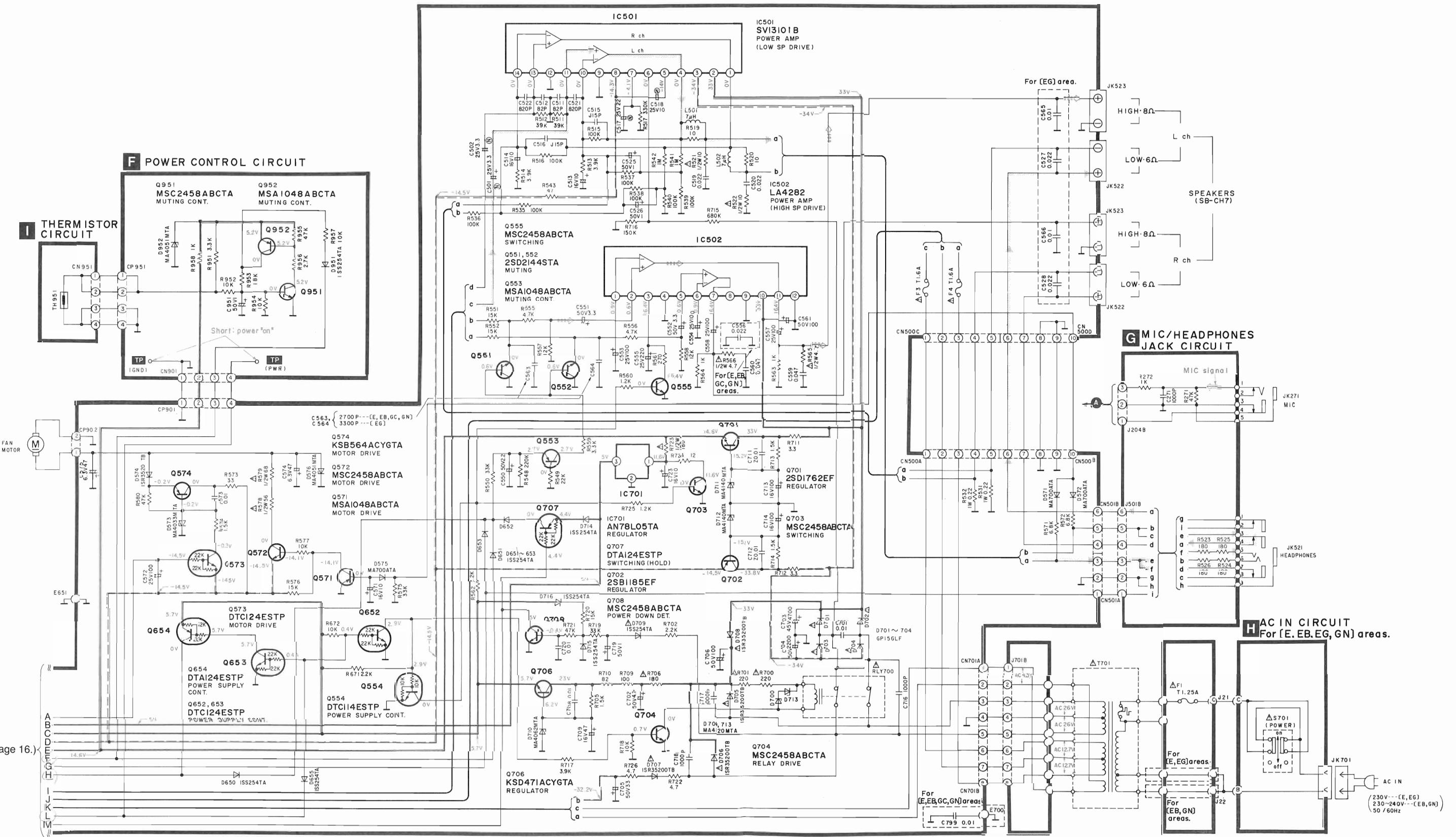


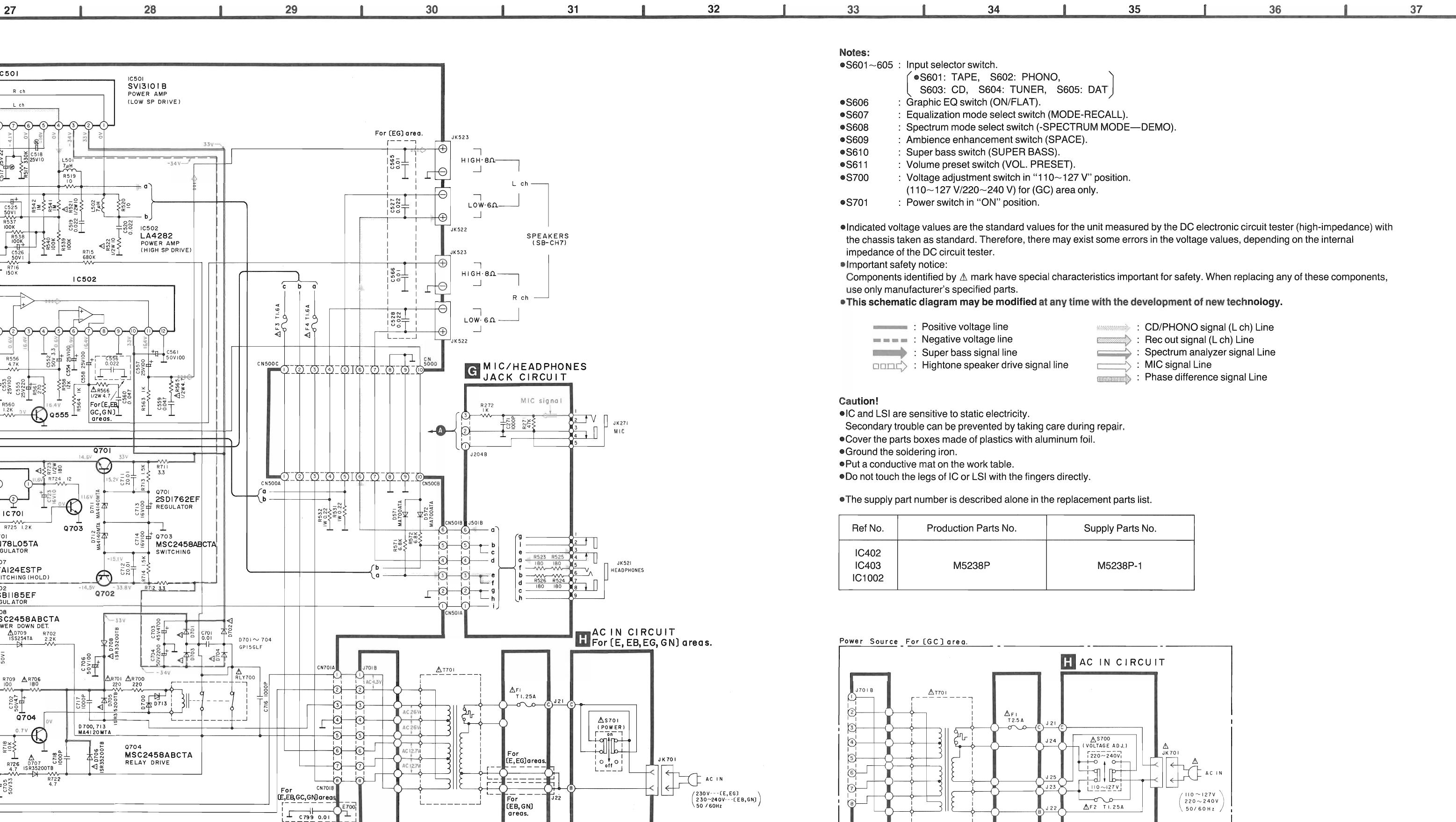
12 13 14 15 16 17 18 19 20 21 22



(To page 17.)

23 24 25 26 27 28 29 30 31 32



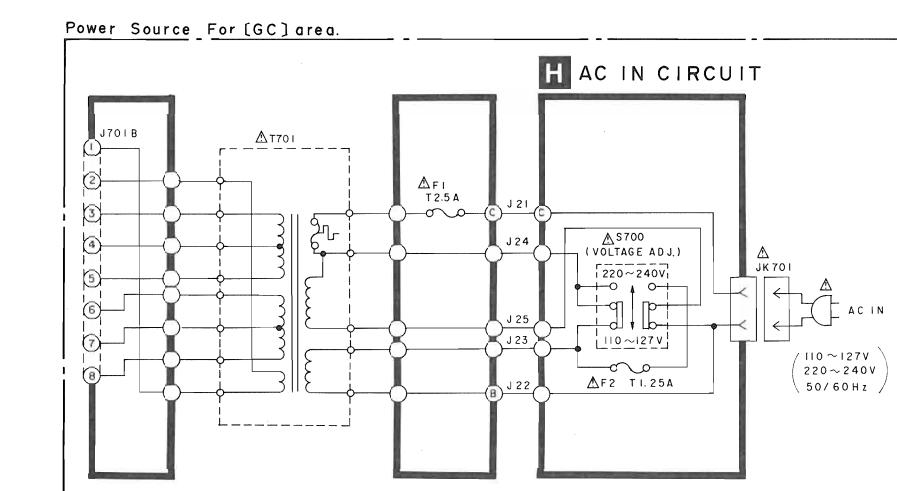
**Notes:**

- S601~605 : Input selector switch.
• S601: TAPE, S602: PHONO,
S603: CD, S604: TUNER, S605: DAT
• S606 : Graphic EQ switch (ON/FLAT).
• S607 : Equalization mode select switch (MODE-RECALL).
• S608 : Spectrum mode select switch (-SPECTRUM MODE—DEMO).
• S609 : Ambience enhancement switch (SPACE).
• S610 : Super bass switch (SUPER BASS).
• S611 : Volume preset switch (VOL. PRESET).
• S700 : Voltage adjustment switch in "110~127 V" position.
(110~127 V/220~240 V) for (GC) area only.
• S701 : Power switch in "ON" position.
- 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.
- Important safety notice:
Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
- This schematic diagram may be modified at any time with the development of new technology.

**Caution!**

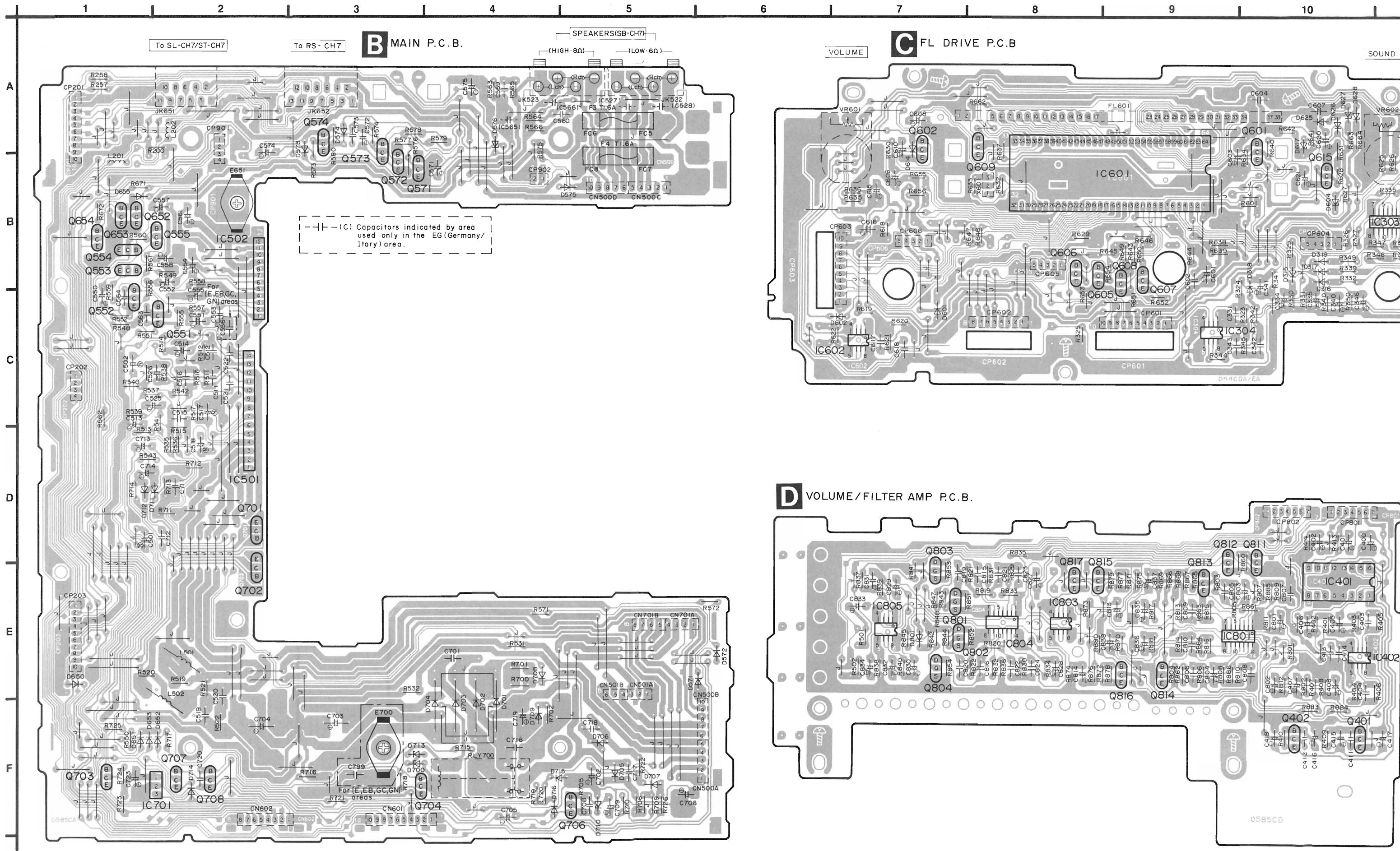
- IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the legs of IC or LSI with the fingers directly.
- The supply part number is described alone in the replacement parts list.

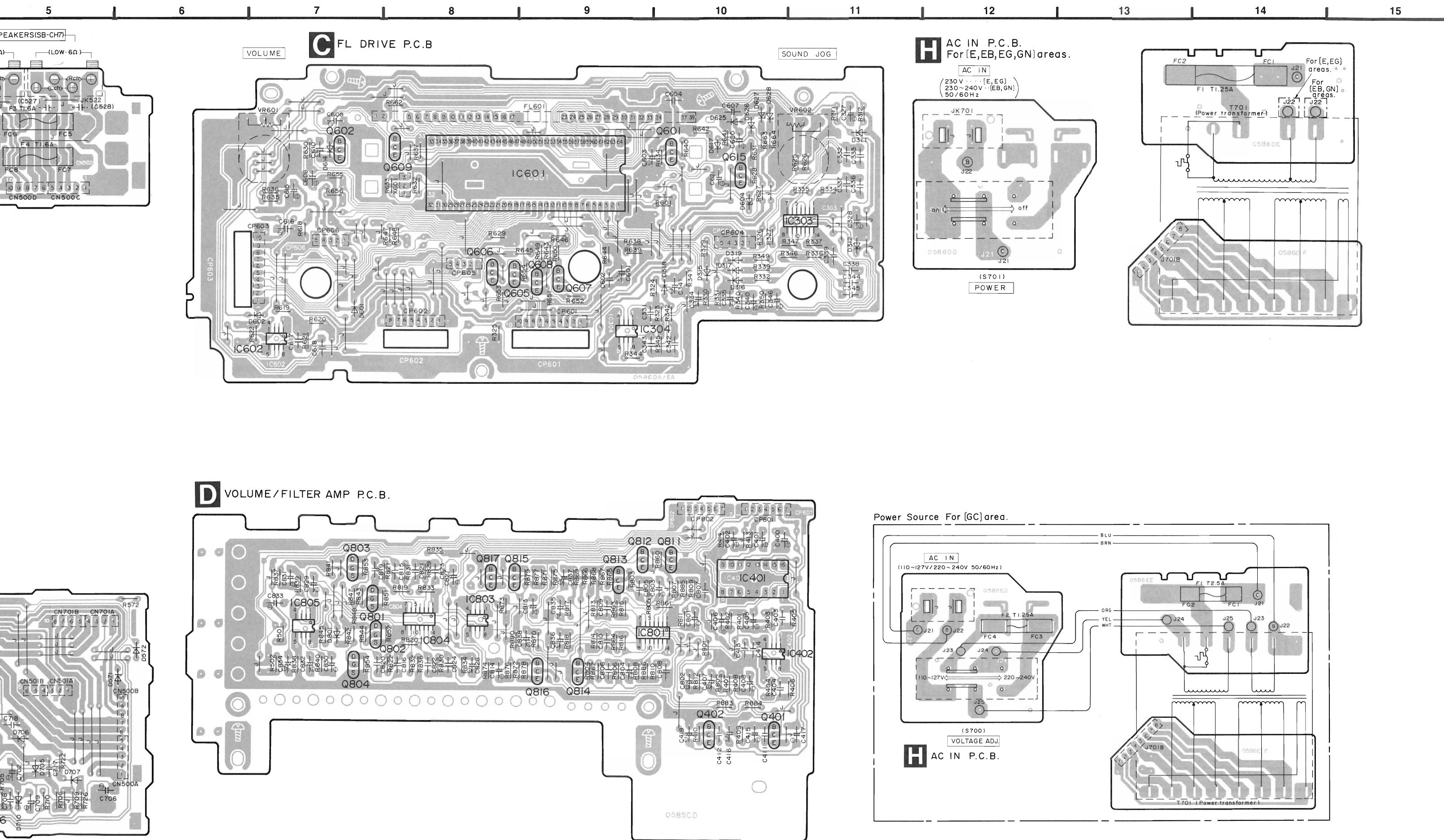
Ref No.	Production Parts No.	Supply Parts No.
IC402		
IC403	M5238P	M5238P-1
IC1002		



■ PRINTED CIRCUIT BOARDS

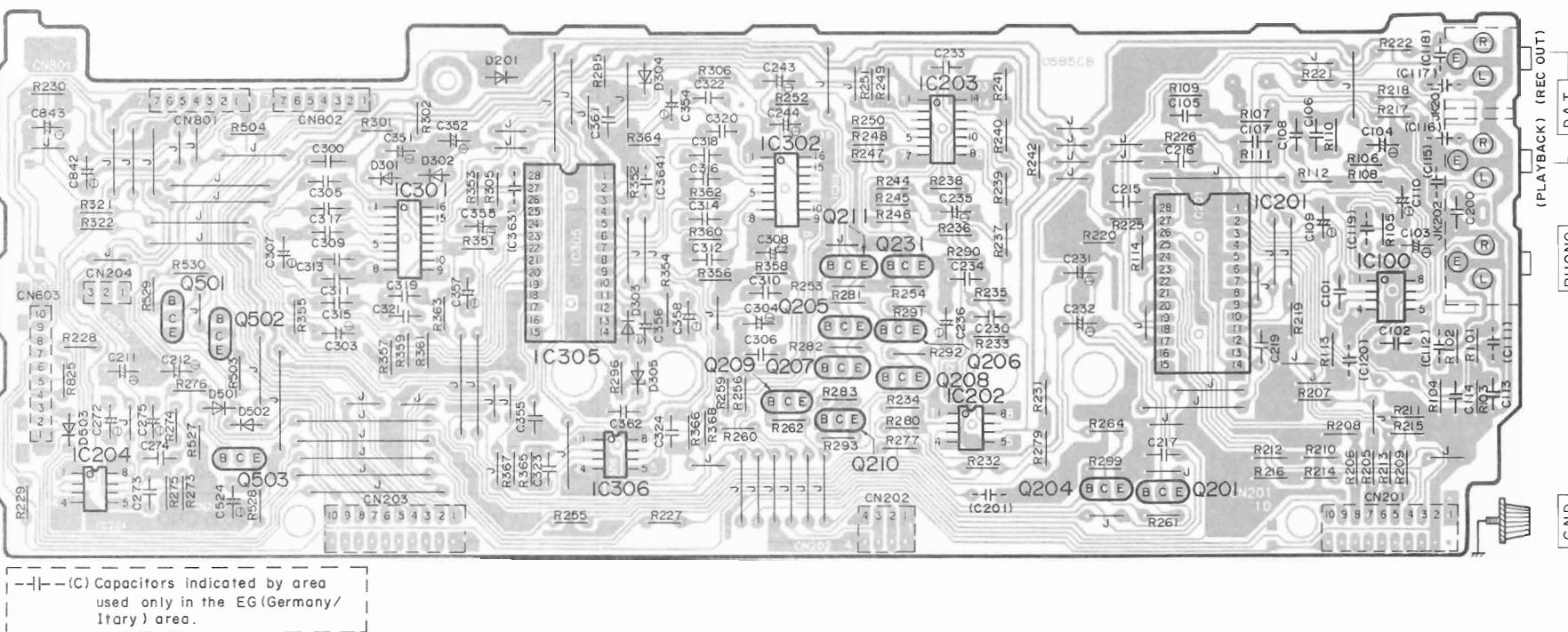
(Parts list on pages 30~35.)





16 17 18 19 20 21 22 23 24 25

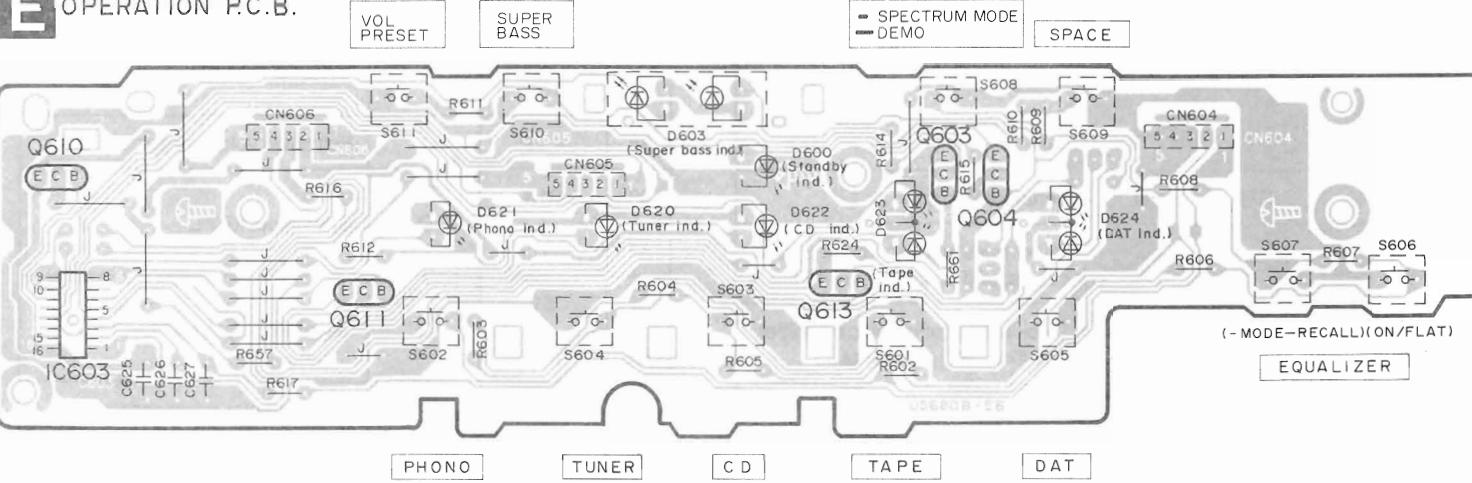
A INPUT/OUTPUT TERMINAL P.C.B.



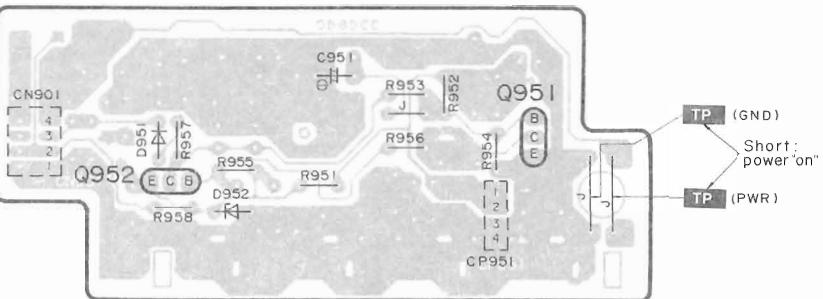
•TERMINAL GUIDE OF IC'S TRANSISTORS AND DIODES

BA4558FT1 AN6558SFE2	AN6554NSFE2	BU2040F-T2 M5226FPE2	M5283P
LC7522 TC9164N	M50945-083SP	LA4282	SVI3100B
AN78L05TA	DTA114ESTP DTC114ESTP DTA124ESTP DTC124ESTP DTC144ESTP 2SD2144STA	KSB564ACYGTA KSD471ACYGTA 2SB621AQRSTA	 1. Vin 2. GND 3. Vout
MSA1048ABCTA MSC2458ABCTA	2SJ40CDTA	2SB1185EF 2SD1762EF	 Ca Cathode Anode
			 1SS254TA 1SR35200TB Ca Cathode Anode
1SS291TA	GP15GLF	MA4033MTA MA4043MTA MA4051MTA MA4062MTA MA4068MTA MA4030LTA	 Ca Cathode Anode
		 Ca Cathode Anode	 Ca Cathode Anode
MA4140MTA MA4300MTA MA4120MTA	LN873RP-LS	LN173WP38	 Anode Cathode Anode Cathode Anode Cathode Anode Cathode
			 Anode Cathode

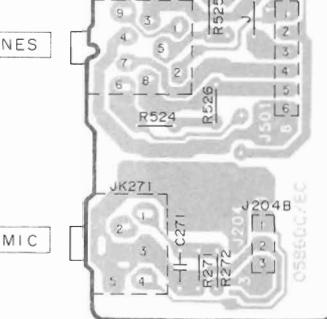
E OPERATION P.C.B.



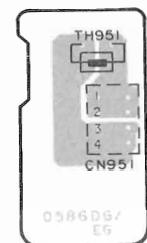
F POWER CONTROL P.C.B.



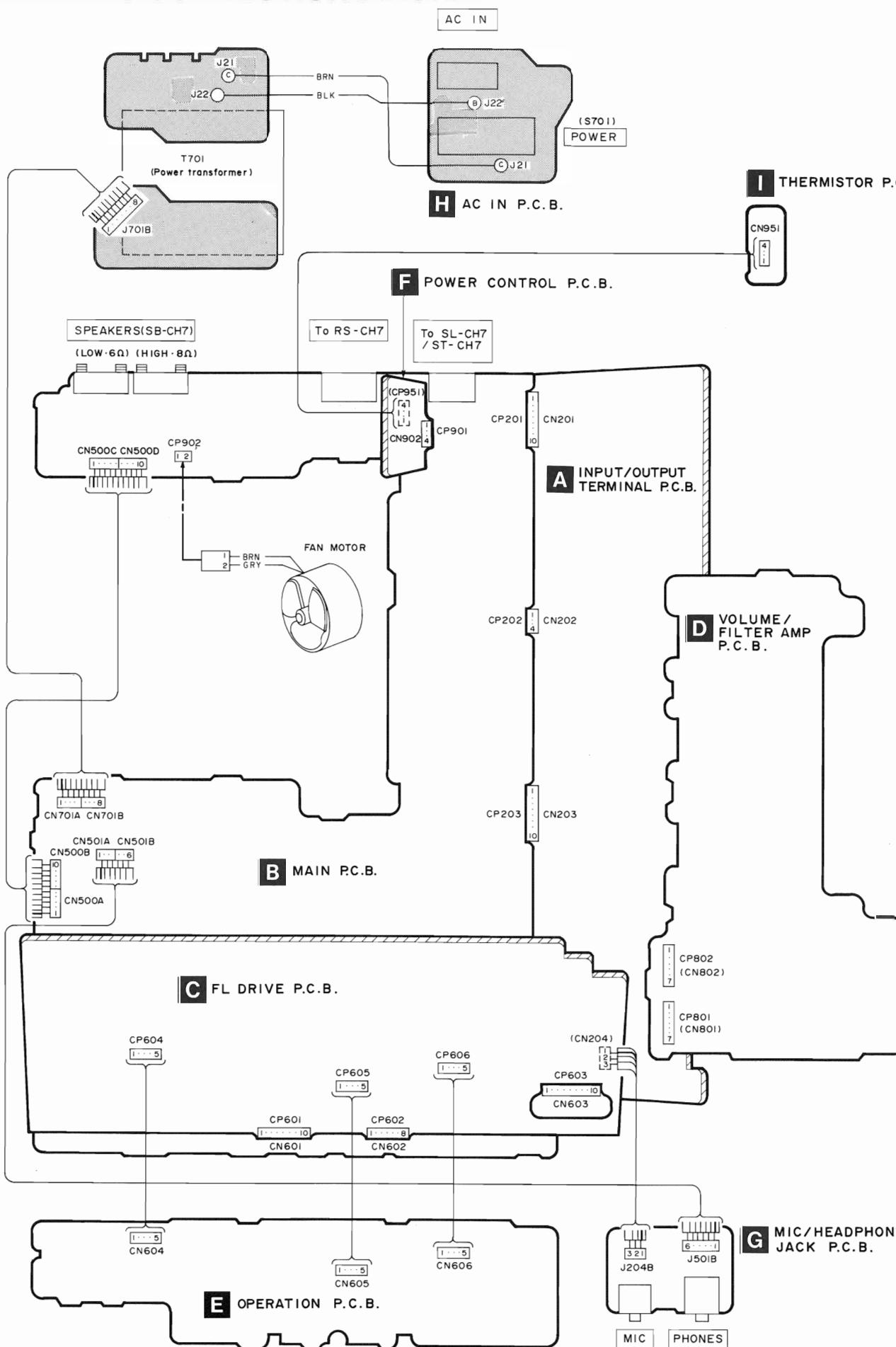
G MIC/HEADPHONES JACK P.C.B.



I THERMISTOR P.C.B.



■ WIRING CONNECTION DIAGRAM



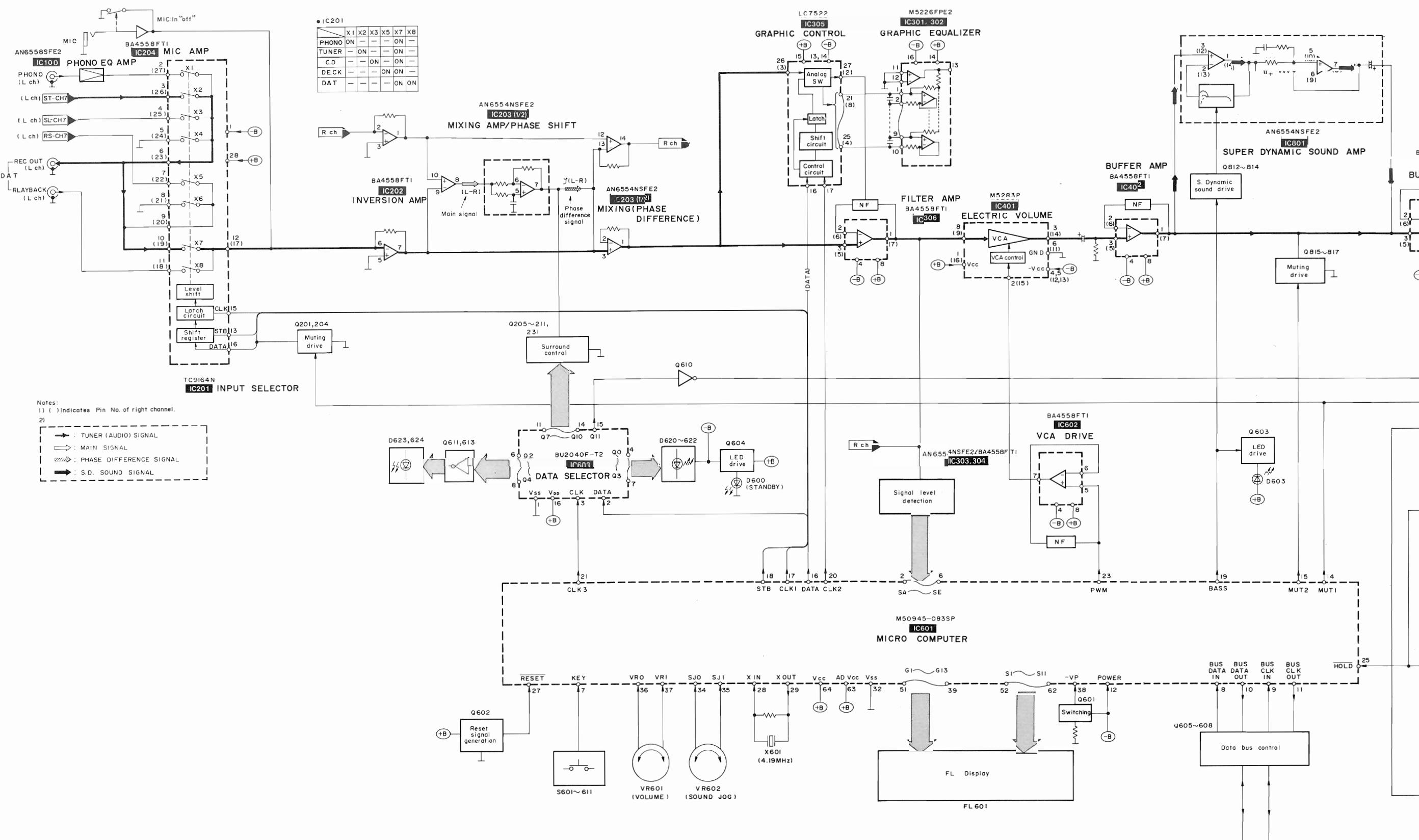
■ FUNCTIONS OF IC TERMINALS

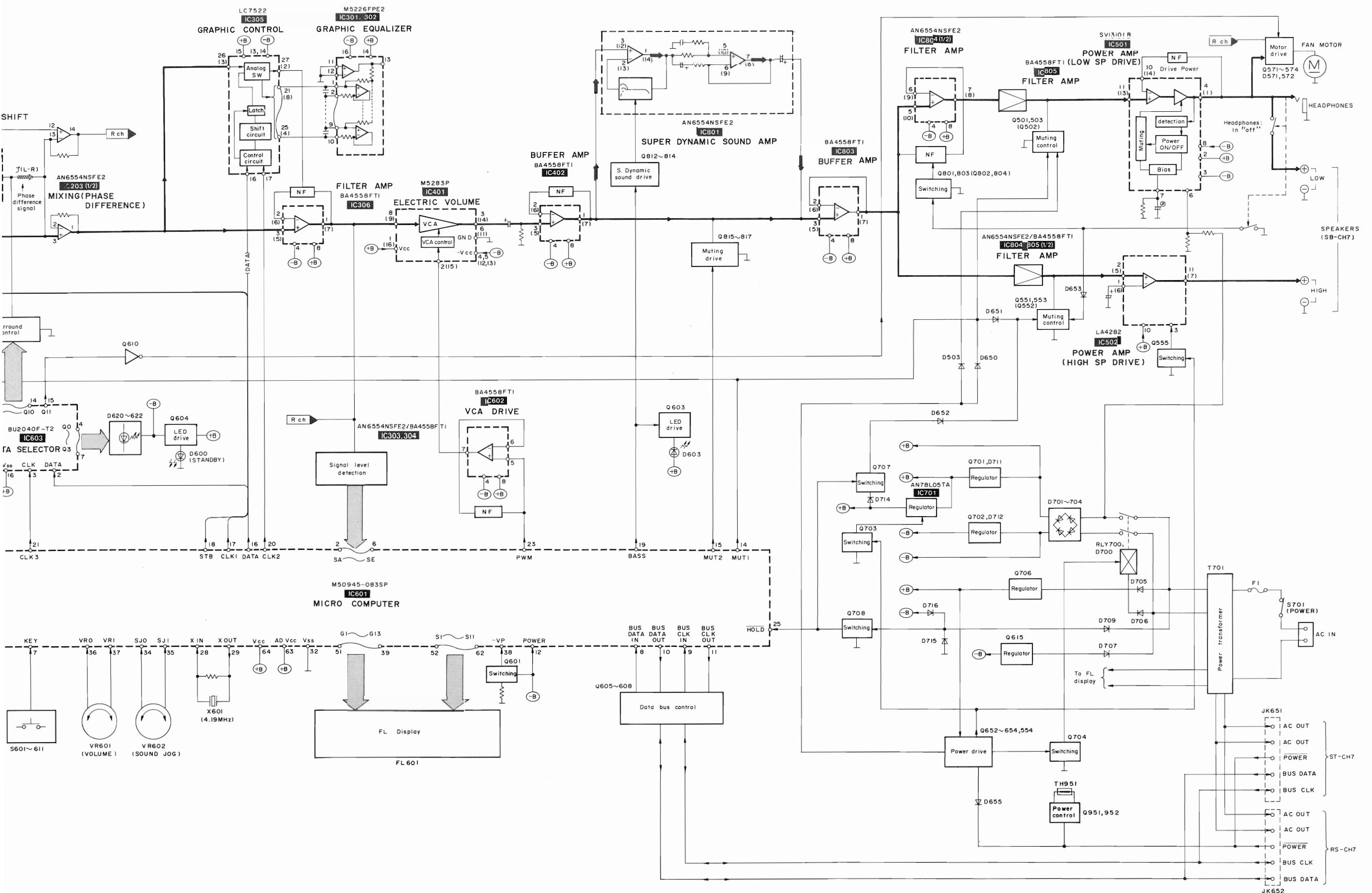
• IC601 (M5D945-083SP)

Pin No.	Mark	I/O Division	Function
1	VREF	I	Connected to A/D converter reference voltage VCC
2	SA	I	Spectrum analyser input A~E A/D input
6	SE	I	
7	KEY	I	Key input
8	BUS DATA IN	I	External control data signal input
9	BUS CLK IN	I	External control clock signal input
10	BUS DATA OUT	O	External control data signal output
11	BUS CLK OUT	O	External control clock signal output
12	POWER	I	Input for power ON/OFF detection
13	VCR	O	Image signal switch output
14	MUT1	O	Muting output "H" level when mute is on mode
15	MUT2	O	-10 dB muting output
16	DATA	O	Serial data output
17	CLK1	O	Clock output extracted from serial data
18	STB	O	Serial clock strobe
19	BASS	O	Super bass indicator motor Super bass sound control signal output
20	CLK2	O	Clock output for graphic equalizer and extracted serial data
21	CLK3	O	FL display output

Pin No.	Mark	I/O Division	Function
22	CS1	—	Connected GND
24	• CS2	—	
23	PWM	I	Electric volume control PWM output
25	HOLD	I	Hold mode detection signal input
26	G	—	Connected to GND
27	RESET	I	Reset input
28	X•IN	I/O	Clock input–output Connected to oscillator (X601) (4.19 kHz)
29	X•OUT		
30	XC IN	I	Connectd to GND
31	XC OUT	O	Not connected
32	VSS	—	Connected to GND
33	NC	—	Not connected
34	SJ0	I	Sound jog input
35	• SJ1		
36	VR0	I	Encoder VR input
37	• VR1		
38	– VP	I	Pull down voltage input for FL
39	G13	O	Grid output for FL
51	• G1		
52	S1	O	Segment output for FL
62	• S11		
63	AD VCC	I	A/D converter reference voltage
64	VCC	I	Power supply

■ BLOCK DIAGRAM





REPLACEMENT PARTS LIST

Notes : * Important safety notice:
 Components identified by Δ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
 * The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
 Parts without these indications can be used for all areas.
 * Remote Control Ass'y:
 Supply period for three years from termination of production.

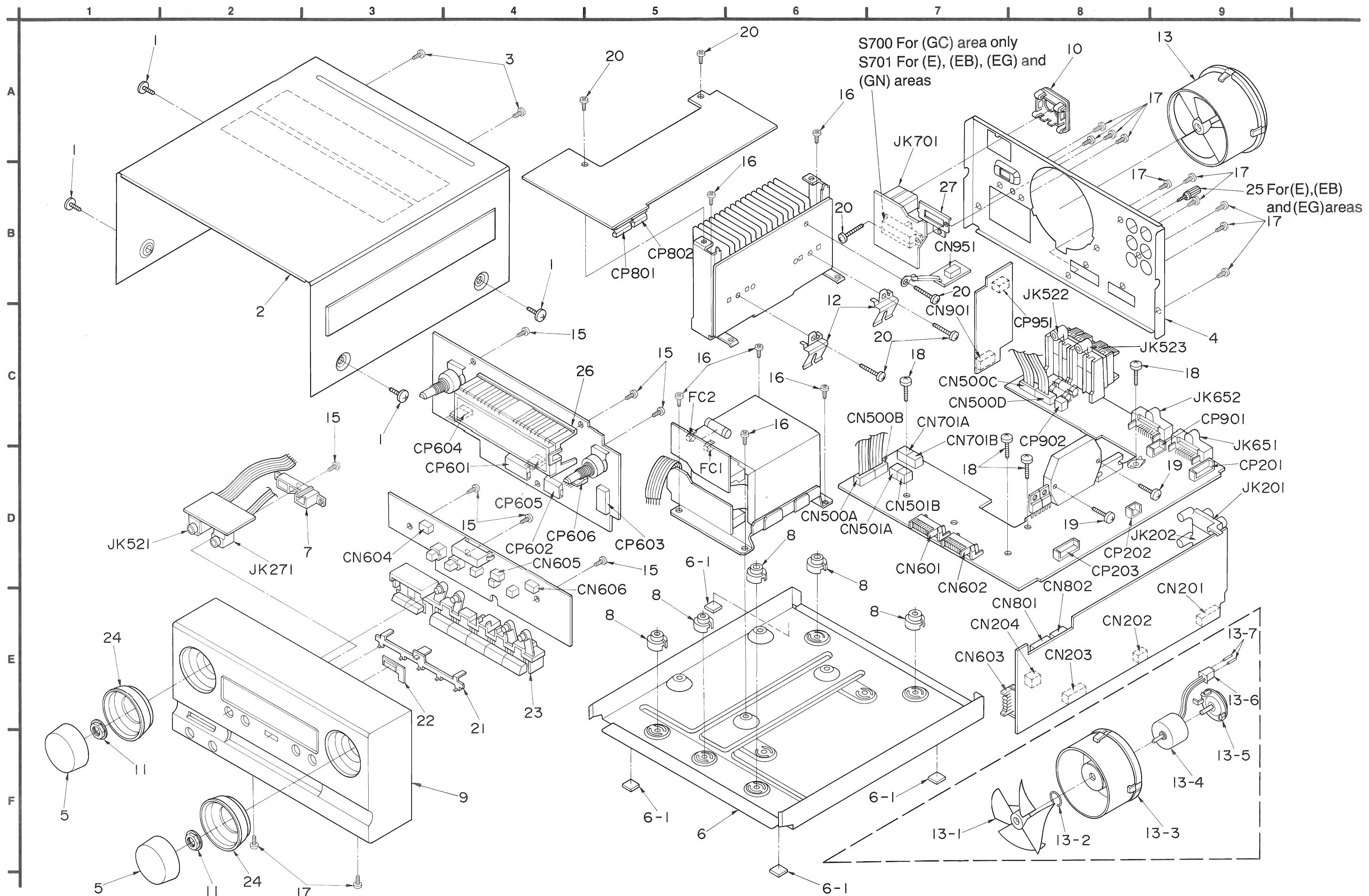
Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		Q571	MSA1048ABCTA	TRANSISTOR	
IC100	AN6558SFE2	I. C. PHONO EQ. AMP.		Q572	MSC2458ABCTA	TRANSISTOR	
IC201	TC9164N	I. C. INPUT SELECTOR		Q573	DTC124EST	TRANSISTOR	
IC202	SVIBA4558F	I. C. INVERSION AMP.		Q574	KSB564ACYGTA	TRANSISTOR	
IC203	AN6554NSFE2	I. C. MIX/PHASE AMP.		Q601	DTA124ESTP	TRANSISTOR	
IC204	SVIBA4558F	I. C. MIC AMP.		Q602, 603	DTC124EST	TRANSISTOR	
IC301, 302	M5226FPE2	I. C. G. EQ AMP.		Q604	DTA124ESTP	TRANSISTOR	
IC303	AN6554NSFE2	I. C. B. P. F. AMP.		Q605, 606	DTC144EKT96	TRANSISTOR	
IC304	SVIBA4558F	I. C. B. P. F. AMP.		Q607-609	MSC2458ABCTA	TRANSISTOR	
IC305	LC7522	I. C. BAND LEVEL CONT.		Q610, 611	DTA124ESTP	TRANSISTOR	
IC306	SVIBA4558F	I. C. FILTER AMP.		Q613	DTA124ESTP	TRANSISTOR	
IC401	M5283P	I. C. E. VOLUME		Q615	2SB621A-R	TRANSISTOR	
IC402	SVIBA4558F	I. C. BUFFER AMP.		Q652, 653	DTC124EST	TRANSISTOR	
IC501	SVI3101B	I. C. POWER AMP.		Q654	DTA124ESTP	TRANSISTOR	
IC502	LA4282	I. C. POWER AMP.		Q701	2SD1762EF	TRANSISTOR	
IC601	M50945-083SP	I. C. MICRO COMPUTER		Q702	2SB1185EF	TRANSISTOR	
IC602	SVIBA4558F	I. C. VCA DRIVE		Q703, 704	MSC2458ABCTA	TRANSISTOR	
IC603	BU2040F-T2	I. C. DATA SELECTOR		Q706	KSD471ACYGTA	TRANSISTOR	
IC701	AN78L05TA	I. C. REGULATOR		Q707	DTA124ESTP	TRANSISTOR	
IC801	AN6554NSFE2	I. C. SUPER BASS AMP.		Q708	MSC2458ABCTA	TRANSISTOR	
IC803	SVIBA4558F	I. C. BUFFER AMP.		Q801-804	2SJ40CDTA	TRANSISTOR	
IC804	AN6554NSFE2	I. C. FILTER AMP.		Q811	DTC124EST	TRANSISTOR	
IC805	SVIBA4558F	I. C. FILTER AMP.		Q812	DTA114ESTP	TRANSISTOR	
		TRANSISTOR(S)		Q813, 814	2SD2144S	TRANSISTOR	
Q201	MSC2458ABCTA	TRANSISTOR		Q815, 816	MSC2458ABCTA	TRANSISTOR	
Q204	MSC2458ABCTA	TRANSISTOR		Q817	DTA114ESTP	TRANSISTOR	
Q205	DTA124ESTP	TRANSISTOR		Q951	MSC2458ABCTA	TRANSISTOR	
Q206	MSC2458ABCTA	TRANSISTOR		Q952	MSA1048ABCTA	TRANSISTOR	
Q207	DTA124ESTP	TRANSISTOR					
Q208	MSC2458ABCTA	TRANSISTOR					
Q209	DTA124ESTP	TRANSISTOR					
Q210	MSC2458ABCTA	TRANSISTOR					
Q211	DTA124ESTP	TRANSISTOR					
Q231	2SD2144S	TRANSISTOR					
Q401	MSC2458ABCTA	TRANSISTOR					
Q402	MSA1048ABCTA	TRANSISTOR					
Q501, 502	2SD2144S	TRANSISTOR					
Q503	MSA1048ABCTA	TRANSISTOR					
Q551, 552	2SD2144S	TRANSISTOR					
Q553	MSA1048ABCTA	TRANSISTOR					
Q554	DTC114ESTP	TRANSISTOR					
Q555	MSC2458ABCTA	TRANSISTOR					

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
D603	LNO24428P	DIODE		F1	XBA2C12TB0S	FUSE, 250V 1.25A	Δ (E, EB, EG, GN)
D604	MA4300M	DIODE		F1	XBA2C25TB0	FUSE, 250V 2A	Δ (GC)
D614	1SS254TA	DIODE		F3, 4	XBA2C16TB0	FUSE, 250V 1.6A	Δ
D617	MA4043M	DIODE	(E, EB, EG, GN)				
D617	MA4030LTA	DIODE	(GC)				SWITCH(ES)
D620-622	LN873RP-LS	DIODE		S601	EVQ21405R	SW, TAPE	
D623, 624	LN173WP38	DIODE		S602	EVQ21405R	SW, PHONO	
D625, 626	1SS254TA	DIODE		S603	EVQ21405R	SW, CD	
D627, 628	MA4030LTA	DIODE		S604	EVQ21405R	SW, TUNER	
D650-653	1SS254TA	DIODE		S605	EVQ21405R	SW, DAT	
D655	1SS254TA	DIODE		S606	EVQ21405R	SW, G. EQ. ON/FLAT	
D700	MA4120	DIODE		S607	EVQ21405R	SW, G. EQ. MODE	
D701-704	GP15GLF	DIODE	Δ	S608	EVQ21405R	SW, SPE. MODE	
D705-708	1SR35200TB	DIODE	Δ	S609	EVQ21405R	SW, SPACE	
D709	1SS254TA	DIODE		S610	EVQ21405R	SW, S. BASS	
D710	MA4062MTA	DIODE		S611	EVQ21405R	SW, V. PRESET	
D711, 712	MA4140M	DIODE		S700	ESD26200A	SW, VOLTAGE ADJ.	Δ (GC)
D713	MA4120	DIODE		S701	RSS3B005S	SW, POWER	Δ (E, EB, EG, GN)
D714-716	1SS254TA	DIODE				JACK(S)	
D801	1SS254TA	DIODE		JK201	SJF3068N	CONNECTOR(2P)	
D951	1SS254TA	DIODE		JK202	SJF3069-5N	CONNECTOR(4P)	
D952	MA4051MTA	DIODE		JK271	RJJ1D25ZA-C	JACK, MIC	
			VARIABLE RESISTOR(S)	JK521	RJJ39T01	HEADPHONES JACK	
VR601	EVQNQAF2524B	V, R, VOLUME CONTROL		JK522	RJR0054BM	SPEAKER TERMINAL	
VR602	EVQNQAF2524B	V, R, SOUND JOG		JK523	RJR0054CM	SPEAKER TERMINAL	
			THERMISTOR(S)	JK651	RJT055K011-1	CONTROL TERMINAL	
TH951	SRPBD47101	THERMISTOR		JK652	RJT055B013-1	CONTROL TERMINAL	
			COIL(S)	JK701	SJS9231-1B	AC INLET	Δ (E, EB, EG, GC)
				JK701	SJS9234B	AC INLET	Δ (GN)
						CONNECTOR(S)	
L201, 202	ELEXTE101KA9	COIL		CN201	RJU057W010	SOCKET(10P)	
L501, 502	SLQY07G-40	COIL		CN202	RJU057W004	SOCKET(4P)	
			TRANSFORMER(S)	CN203	RJU057W010	SOCKET(10P)	
T701	RTP1M5B006	POWER TRANSFORMER	Δ (E, EB, EG, GN)	CN204	RJS1A1703	SOCKET(3P)	
T701	RTP1M5E010	POWER TRANSFORMER	Δ (GC)	CN601	RJU003K010M1	SOCKET(10P)	
			OSCILLATOR(S)	CN602	RJU003K008M1	SOCKET(8P)	
				CN603	RJU003K010M1	SOCKET(10P)	
				CN604-606	SJS50581BB	SOCKET(5P)	
X601	EFOGC4194T4	OSCILLATOR		CN6081, 802	RJU005W007	SOCKET(7P)	
				CN901	RJU057W004	SOCKET(4P)	
			DISPLAY	CN951	RJU057W004	SOCKET(4P)	
FL601	RSL0079-F	DISPLAY		CN500A	RJS1A1705	SOCKET(5P)	
				CN501A	RJS1A1703	SOCKET(3P)	
			FUSE(S)	CN701A	RJS1A1704	SOCKET(4P)	
				CN500B	RJS1A1705	SOCKET(5P)	
				CN501B	RJS1A1703	SOCKET(3P)	
				CN701B	RJS1A1704	SOCKET(4P)	

Ref. No.	Part No.	Part Name & Description	Remarks
D603	LN024428P	DIODE	
D604	MA4300M	DIODE	
D614	1SS254TA	DIODE	
D617	MA4043M	DIODE	(E, EB, EG, GN)
D617	MA4030LTA	DIODE	(GC)
D620-622	LN873RP-LS	DIODE	
D623, 624	LN173WP38	DIODE	
D625, 626	1SS254TA	DIODE	
D627, 628	MA4030LTA	DIODE	
D650-653	1SS254TA	DIODE	
D655	1SS254TA	DIODE	
D700	MA4120	DIODE	
D701-704	GP15GLF	DIODE	△
D705-708	1SR35200TB	DIODE	△
D709	1SS254TA	DIODE	
D710	MA4062MTA	DIODE	
D711, 712	MA4140M	DIODE	
D713	MA4120	DIODE	
D714-716	1SS254TA	DIODE	
D801	1SS254TA	DIODE	
D951	1SS254TA	DIODE	
D952	MA4051MTA	DIODE	
		VARIABLE RESISTOR(S)	
VR601	EVQWQAF2524B	V, R, VOLUME CONTROL	
VR602	EVQWQAF2524B	V, R, SOUND JOG	
		THERMISTOR(S)	
TH951	SRPBD47101	THERMISTOR	
		COIL (S)	
L201, 202	ELEXT101KA9	COIL	
L501, 502	SLQY07G-40	COIL	
		TRANSFORMER(S)	
T701	RTP1M5B006	POWER TRANSFORMER	△(E, EB, EG, GN)
T701	RTP1M5E010	POWER TRANSFORMER	△(GC)
		OSCILLATOR(S)	
X601	EFOGC4194T4	OSCILLATOR	
		DISPLAY	
FL601	RSL0079-F	DISPLAY	
		FUSE (S)	

Ref. No.	Part No.	Part Name & Description	Remarks
F1	XBA2C12TB0S	FUSE, 250V 1.25A	△(E, EB, EG, GN)
F1	XBA2C25TB0	FUSE, 250V 2A	△(GC)
F3, 4	XBA2C16TB0	FUSE, 250V 1.6A	△
		SWITCH(ES)	
S601	EVQ21405R	SW, TAPE	
S602	EVQ21405R	SW, PHONO	
S603	EVQ21405R	SW, CD	
S604	EVQ21405R	SW, TUNER	
S605	EVQ21405R	SW, DAT	
S606	EVQ21405R	SW, G. EQ. ON/FLAT	
S607	EVQ21405R	SW, G. EQ. MODE	
S608	EVQ21405R	SW, SPE. MODE	
S609	EVQ21405R	SW, SPACE	
S610	EVQ21405R	SW, S. BASS	
S611	EVQ21405R	SW, V. PRESET	
S700	ESD26200A	SW, VOLTAGE ADJ.	△(GC)
S701	RSS3B005S	SW, POWER	△(E, EB, EG, GN)
		JACK(S)	
JK201	SJF3068N	CONNECTOR(2P)	
JK202	SJF3069-5N	CONNECTOR(4P)	
JK271	RJJ1D25ZA-C	JACK, MIC	
JK521	RJJ39T01	HEADPHONES JACK	
JK522	RJR0054BM	SPEAKER TERMINAL	
JK523	RJR0054CM	SPEAKER TERMINAL	
JK651	RJT055K011-1	CONTROL TERMINAL	
JK652	RJT055B013-1	CONTROL TERMINAL	
JK701	SJS9231-1B	AC INLET	△(E, EB, EG, GC)
JK701	SJS9234B	AC INLET	△(GN)
		CONNECTOR(S)	
CN201	RJU057W010	SOCKET(10P)	
CN202	RJU057W004	SOCKET(4P)	
CN203	RJU057W010	SOCKET(10P)	
CN204	RJS1A1703	SOCKET(3P)	
CN601	RJU003K010M1	SOCKET(10P)	
CN602	RJU003K008M1	SOCKET(8P)	
CN603	RJU003K010M1	SOCKET(10P)	
CN604-606	SJS50581BB	SOCKET(5P)	
CN801, 802	RJU005W007	SOCKET(7P)	
CN901	RJU057W004	SOCKET(4P)	
CN951	RJU057W004	SOCKET(4P)	
CN500A	RJS1A1705	SOCKET(5P)	
CN501A	RJS1A1703	SOCKET(3P)	
CN701A	RJS1A1704	SOCKET(4P)	
CN500B	RJS1A1705	SOCKET(5P)	
CN501B	RJS1A1703	SOCKET(3P)	
CN701B	RJS1A1704	SOCKET(4P)	

Ref. No.	Part No.	Part Name & Description	Remarks				
CN500C	RJS1A1705	SOCKET(5P)					
CN500D	RJS1A1705	SOCKET(5P)					
CP201	RJT057W010-1	CONNECTOR(10P)					
CP202	RJT057W004-1	CONNECTOR(4P)					
CP203	RJT057W010-1	CONNECTOR(10P)					
CP601	RJT003K010M1	CONNECTOR(10P)					
CP602	RJT003K008M1	CONNECTOR(8P)					
CP603	RJT003K010M1	CONNECTOR(10P)					
CP604-606	SJT30549BB1	CONNECTOR(5P)					
CP801, 802	RJT005W007S	CONNECTOR(7P)					
CP901	RJT057W004-1	CONNECTOR(4P)					
CP902	SJT3213	CONNECTOR(2P)					
CP951	RJT057W004-1	CONNECTOR(4P)					
		FUSE HOLDER(S)					
FC1, 2	EYF52BC	FUSE HOLDER	△				
FC3, 4	SJT388	FUSE HOLDER	△(GC)				
FC5-8	EYF52BC	FUSE HOLDER	△				
		RELAY					
RLY700	SSY134	RELAY	△				

CABINET PARTS LOCATION

■ PACKING (For System: SC-CH7)

