

# Service Manual

Digital Integrated Amplifier

Amplifier

## SU-X977

Color

(K)...Black Type



### Area

Country Code	Area	Color
(E), (E5)	Continental Europe	(K)
(EB)	Great Britain	(K)
(EG)	F.R. Germany & Italy	(K)
(G)	Third Region	(K)
(GN)	New Zealand	(K)

## SPECIFICATIONS

(DIN 45 500)

### ■ AMPLIFIER SECTION

DIN power output		
1 kHz THD:1%		2×80 W (8Ω)
Total harmonic distortion		
rated power at 1 kHz		1% (8Ω)
Harmonic distortion		
half power at 1 kHz		0.009% (8Ω)
Residual hum and noise		0.2 mV
Damping factor		30 (8Ω)
Input sensitivity and impedance		
PHONO		3mV/47 kΩ
TUNER,AUX,TAPE 1,TAPE 2		150mV/22 kΩ
CD		200mV/22 kΩ
Maximum input voltage (1 kHz,RMS)		
PHONO		100 mV
S/N (rated power 8Ω)		
PHONO		75 dB (IHF,A:79 dB)
TUNER,CD,AUX,TAPE 1,TAPE 2		82 dB (IHF,A:83 dB)
Frequency response		
PHONO		RIAA standard curve
		± 0.8dB(30 Hz ~ 15 kHz)
TUNER,CD,AUX,TAPE 1,TAPE 2		15 Hz ~ 55 kHz (-3 dB)
CD,DAT (digital section)		15 Hz ~ 20 kHz (-0.5 dB)
Tone controls		
BASS		50 Hz, +10 dB ~ -10 dB
TREBLE		20 kHz, +10 dB ~ -10 dB

Muting		-20 dB
Super bass		70 Hz, +10 dB
Output voltage		
TAPE 1,TAPE 2,REC OUT		150 mV
Channel balance,AUX 250 Hz ~ 6,300 Hz		±1.0 dB
Channel separation, AUX 1 kHz		60dB
Headphones output level and impedance		590 mV/330 Ω
Load impedance		
A or B		8 Ω ~ 16 Ω
SURROUND		8 Ω ~ 16 Ω

### ■ GENERAL

Power consumption		370 W
Power supply		
For Great Britain and New Zealand		AC 50 Hz/60 Hz,240V
For continental Europe		AC 50 Hz/60 Hz,220V
For others		AC 50 Hz/60 Hz,110V/127V/220V/240V
Dimensions (W x H x D)		360 x 128 x 300 mm
		(14-3/16" x 5-1/32" x 11-13/16")
Weight		6.8 kg (15 lb.)

### Notes:

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

# Technics

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Central P.O. Box 288, Osaka 530-91, Japan

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## ■ BEFORE REPAIR

- (1) Turn off the power supply. Using a 10Ω, 5W resistor connect both ends of power supply capacitors(C701,C702,6800μF) 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 50Hz/60Hz in NO SIGNAL mode should be shown below with respect to supply voltage 110V/127V/220V/240V.

Power supply voltage	AC110V	AC127V	AC220V	AC240V
Consumed current 50Hz	241 ~ 733mA	223 ~ 669mA	122 ~ 365mA	112 ~ 336mA
Consumed current 60Hz	233 ~ 698mA	217 ~ 650mA	119 ~ 356mA	110 ~ 330mA

## ■ 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.

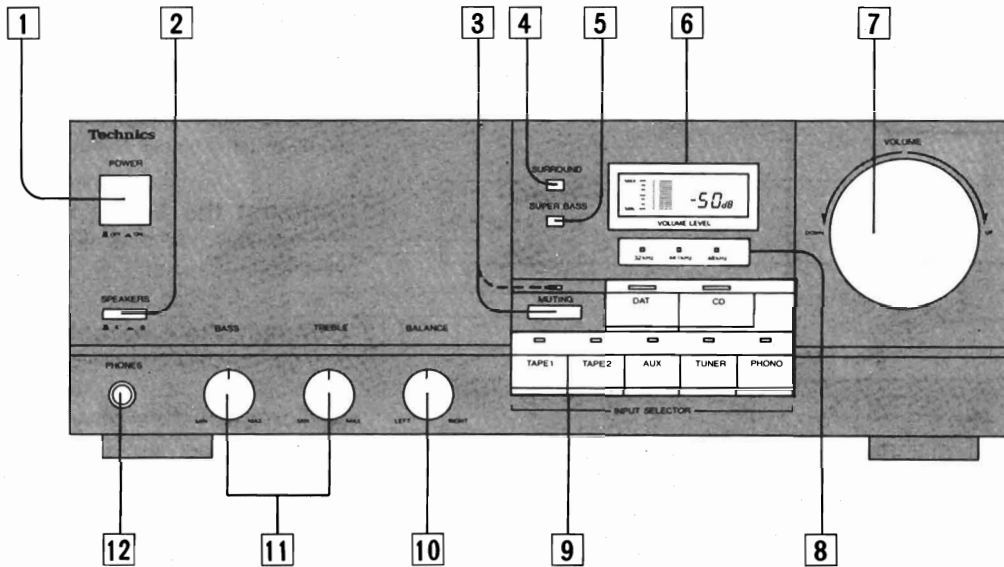
## ■ ACCESSORY

- AC power supply cord ..... 1  
Configuration of AC power supply cord differs according to area.

SJA173 ..... For (GN) area only.  
SJA188 ..... For (EB) area only.  
SFDAC05E03 .... For others.

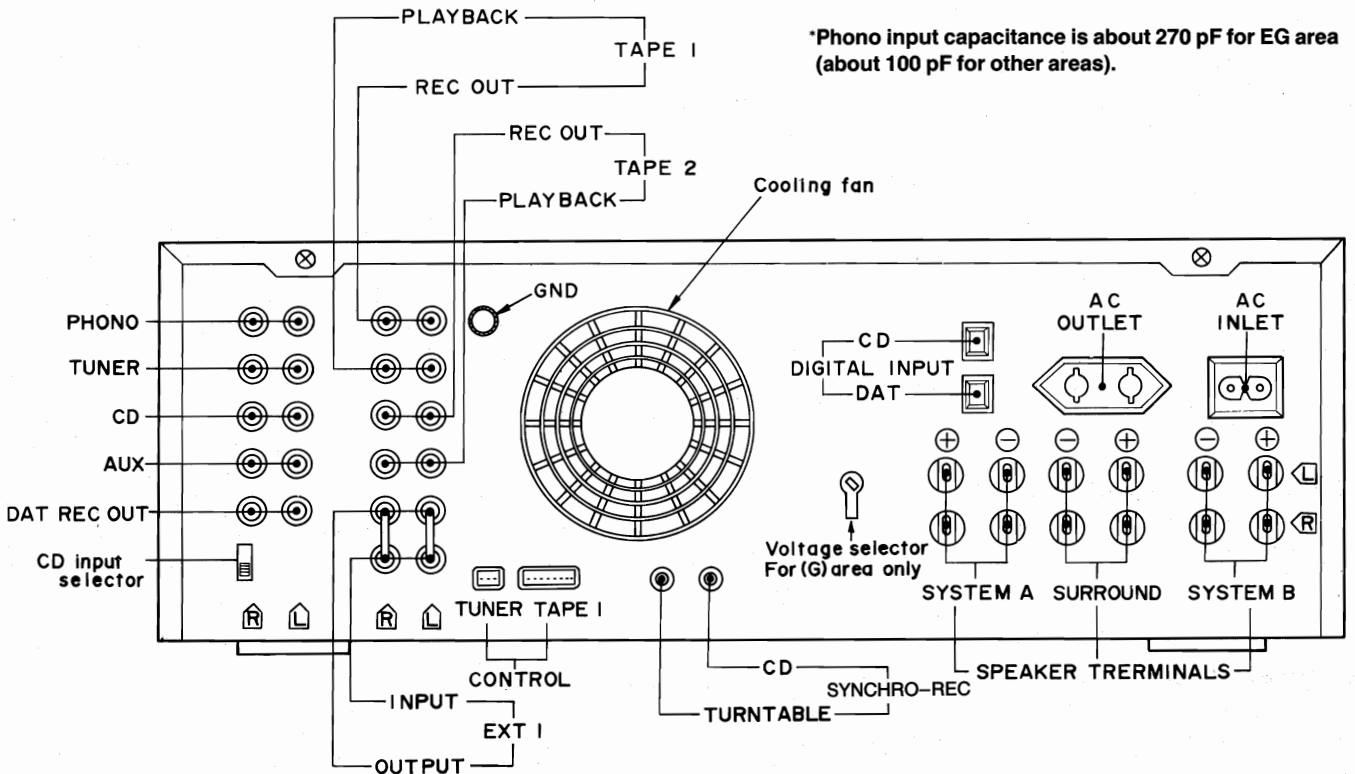
**LOCATION OF CONTROLS**

**•Front panel**

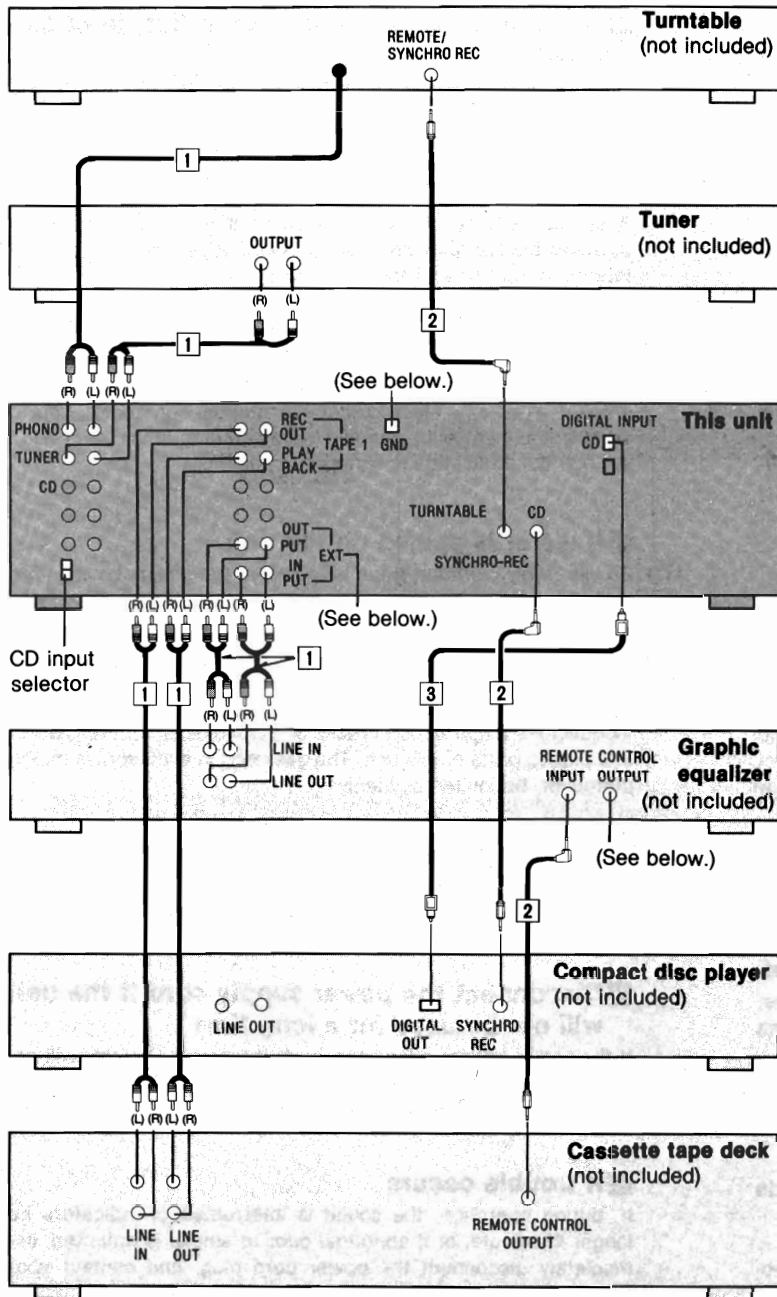


- 1 Power switch (POWER)**
- 2 Speaker selector (SPEAKERS)**
- 3 Audio muting switch/indicator (MUTING)**
- 4 Surround-sound switch (SURROUND)**
- 5 Super bass switch (SUPER BASS)**
- 6 Volume-level indicator (VOLUME LEVEL)**
- 7 Volume control (VOLUME)**
- 8 Sampling frequency indicators**  
**32 kHz:** For digital signals with the 32-kHz mode sampling frequency  
**44.1 kHz:** CD and others  
**48 kHz:** For digital signals with the 48-kHz mode sampling frequency
- 9 Input selectors/indicators (INPUT SELECTOR)**
- 10 Balance control (BALANCE)**
- 11 Tone controls (BASS/TREBLE)**
- 12 Headphones jack (PHONES)**

**•Rear panel**



## CONNECTIONS



Connection diagrams shown are for connections to a Technics hi-fi component system. Make connections in the numbered sequential order.

- 1** Connect the stereo connection cables (included with the turntable, tuner, graphic equalizer, and cassette tape deck).
- 2** Connect the L-type cables (included with the turntable, compact disc player, and graphic equalizer).
- 3** Connect the optical-fiber cable (included with the compact disc player).

### Compact disc player connections

If your compact disc player does not have the "DIGITAL OUTPUT" terminal, use stereo connection cables (not included) to make the connections between the "CD" terminals of this unit and the "LINE OUT" terminals of the compact disc player. If this type of connection is made, this unit's CD input selector should be set to "ANALOG".

### CD input selector of this unit

This selector is used for selection of the format (analog or digital) of the input signals from the compact disc player.

**ANALOG:** Set to this position if stereo connection cables are used.

**DIGITAL:** Set to this position if an optical-fiber cable is used.

#### Notes:

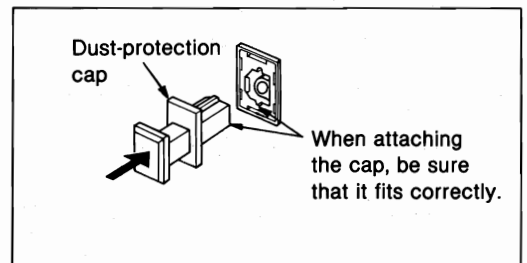
1. Be sure the power switch of this unit is switched OFF before changing the setting of this selector. (Interference noise may be emitted if the power switch is ON.)
2. The setting of this selector must be made correctly; if not, no sound will be emitted when the "CD" input selector of the front panel of this unit is selected.

### "DIGITAL INPUT" terminals of this unit

These terminals are protected by the dust-protection caps to avoid damage by the dust, etc.

Remove the caps only when the "DIGITAL INPUT" terminals are to be used.

When these terminals are not being used, attach the caps as shown in the illustration below.

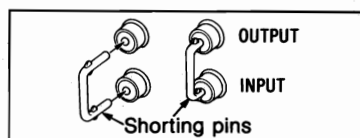


### "GND" terminal of this unit

This terminal is for use with a turntable which has a ground wire.

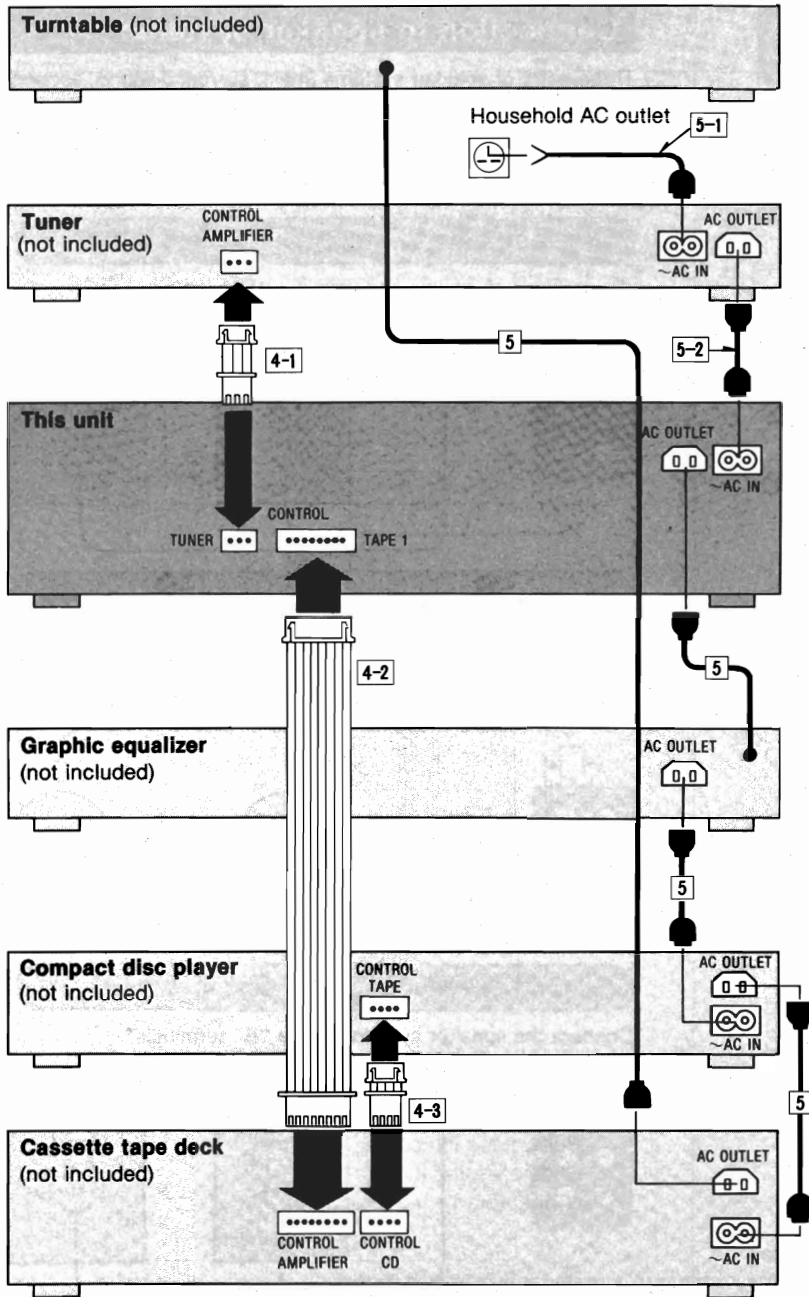
### "EXT" terminals of this unit

When these terminals are not in use, be sure to insert the shorting pins (included).



### "REMOTE CONTROL OUTPUT" terminal of the graphic equalizer

This terminal is used to connect the compact disc player with the remote-control terminal.

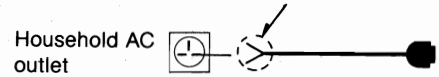


**4 Connect the flat cables.**

- 4-1 **Connect the 3-core flat cable** (included with the tuner).
- 4-2 **Connect the 8-core flat cable** (included with the cassette tape deck).
- 4-3 **Connect the 4-core flat cable** (included with the cassette tape deck).

**5 Connect the AC power supply cords.**

- 5-1
  - ① Connect this cord only after all other cables and cords have been connected.
  - ② Fit a suitable plug to an AC power supply cord.



5-2

If the cord is to be connected to the household AC outlet, cut off and dispose of the plug and replace with a suitable plug.

**Note:**

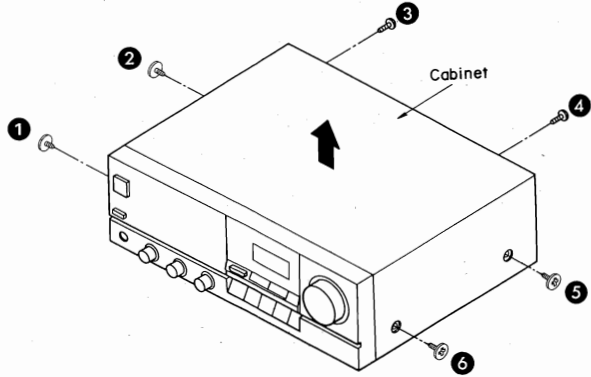
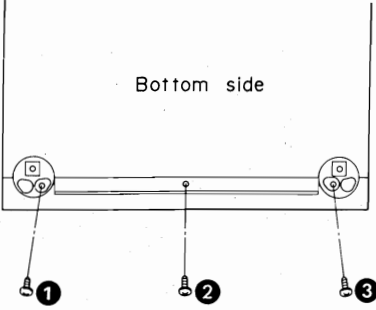
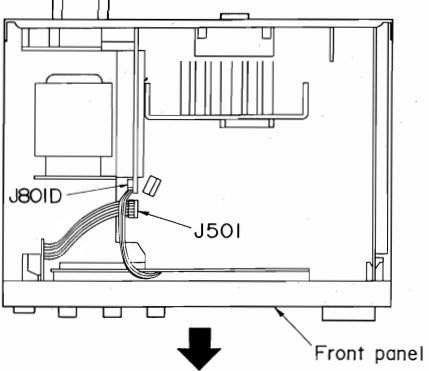
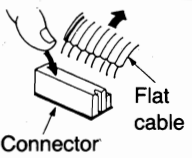
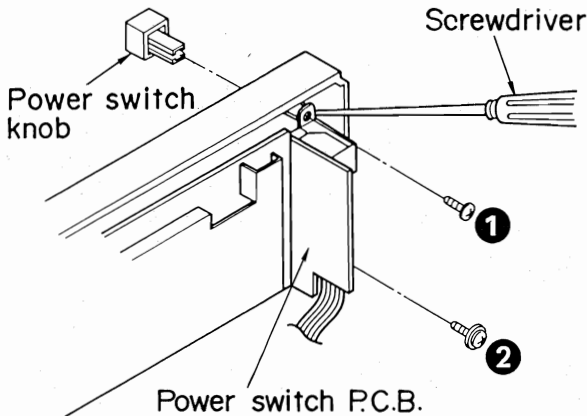
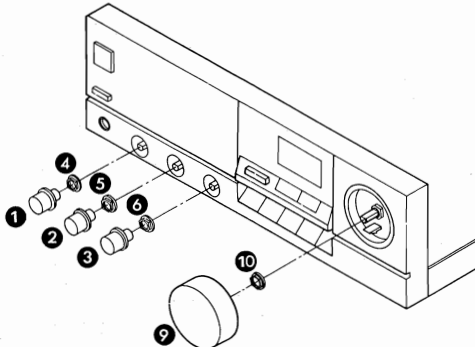
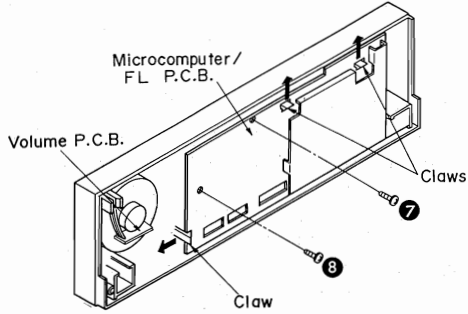
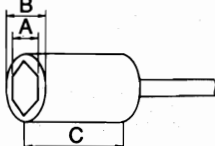
If the graphic equalizer is not used in combination with these components, connect the AC power supply cord of the compact disc player to the AC outlet of the amplifier. If the compact disc player is not used in combination with these components, connect the AC power supply cord of the cassette tape deck to the AC outlet of the graphic equalizer.

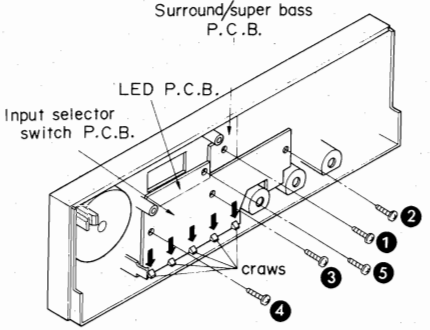
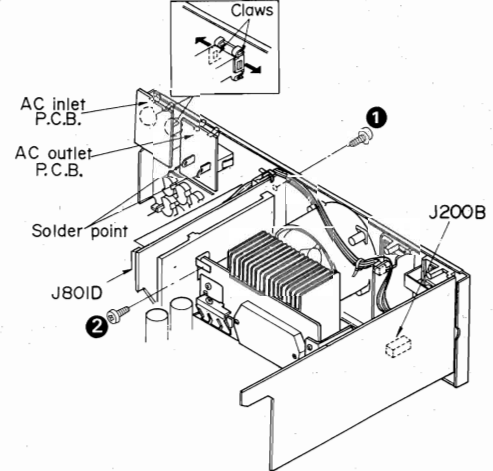
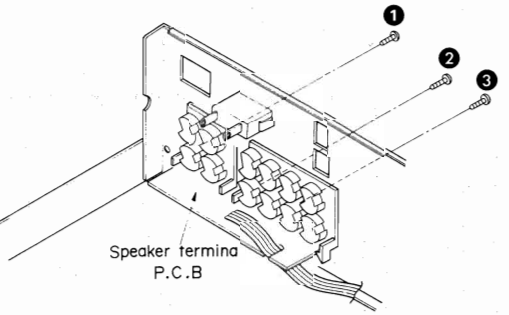
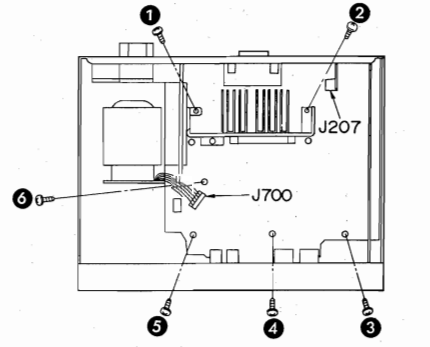
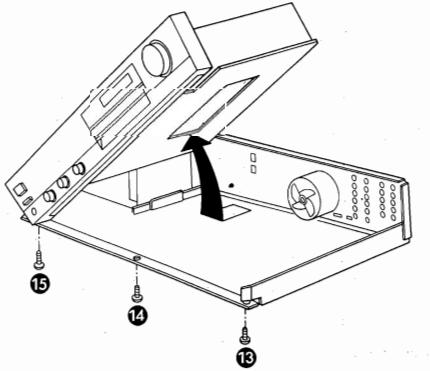
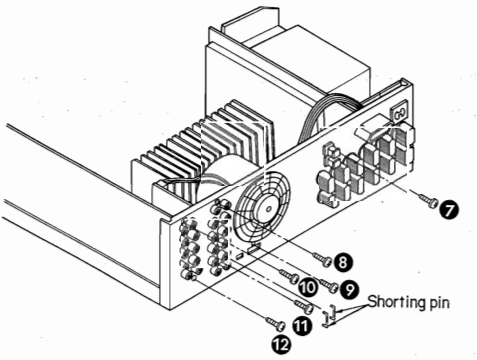
**■ About the AC outlets of the each components**

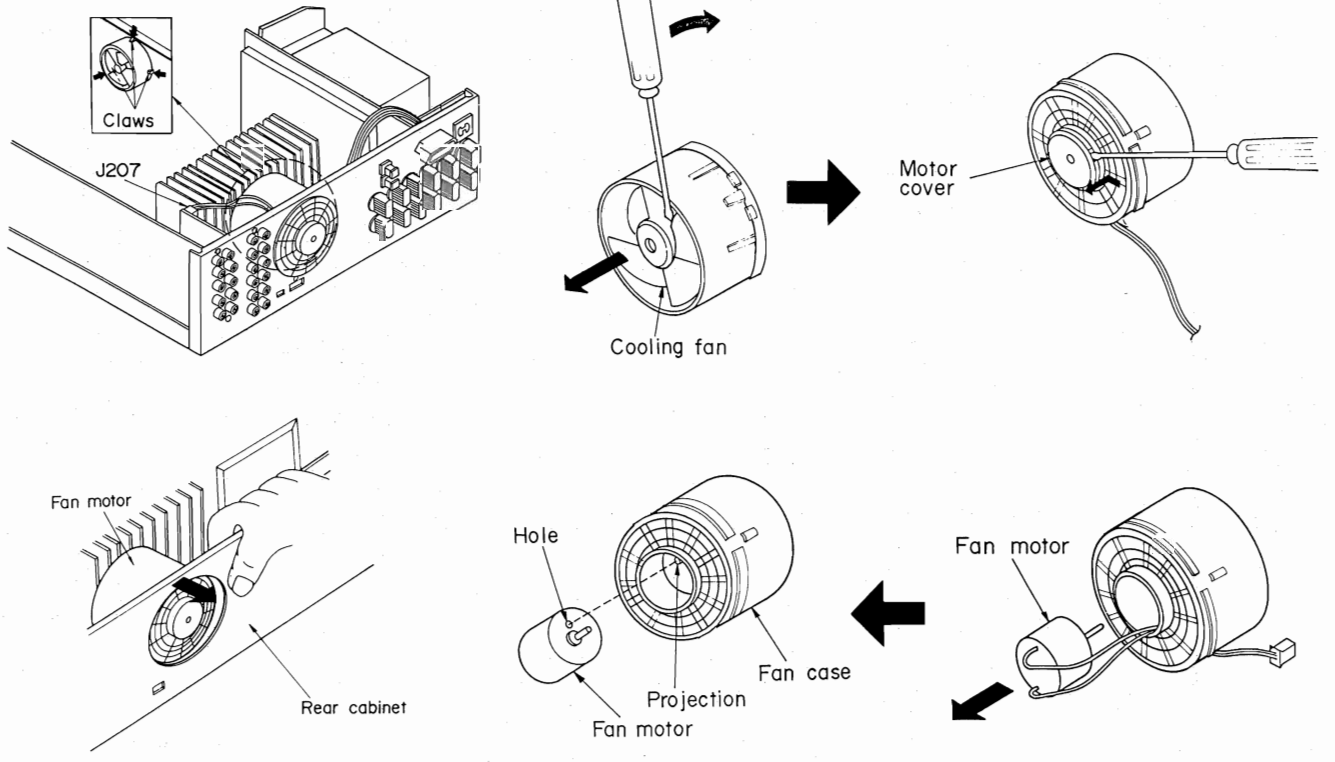
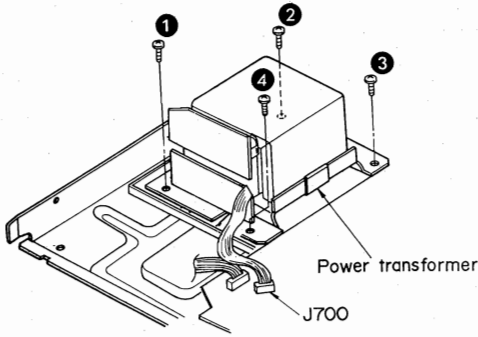
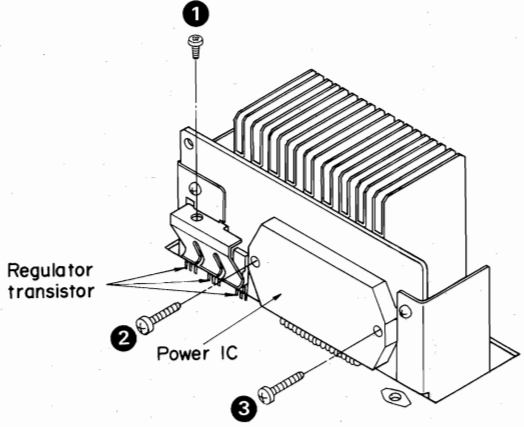
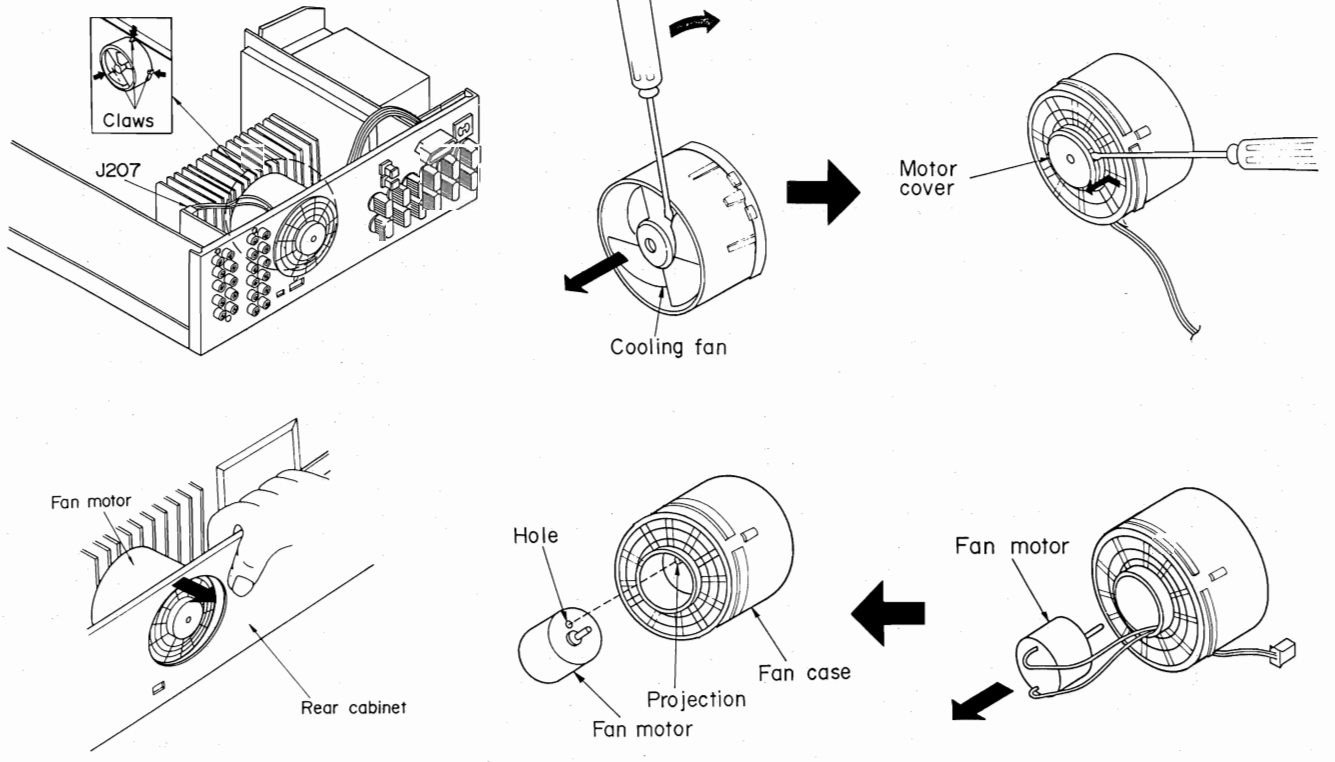
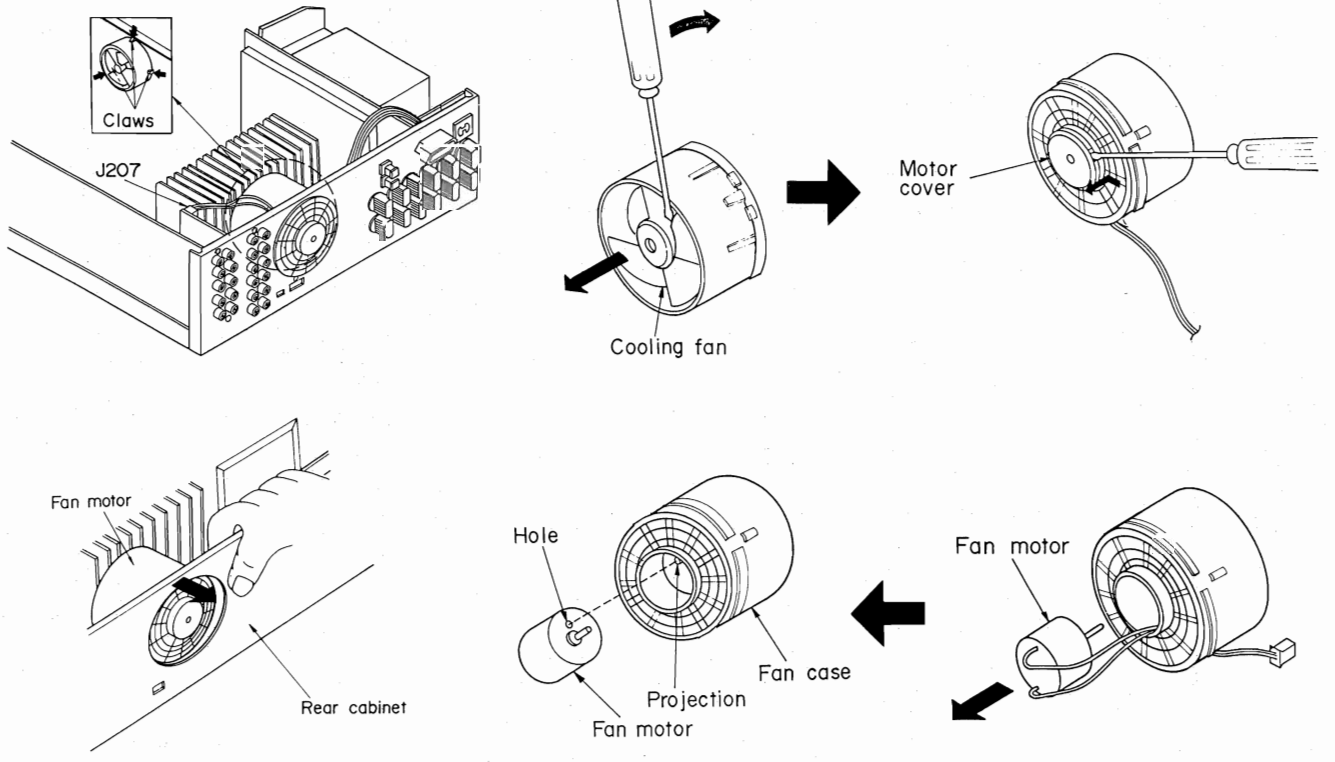
Do not connect video-related equipment (such as a TV, etc.) to the AC outlets of these components. (These outlets are especially for audio equipment.) Also do not exceed the indicated power ratings when connecting to these outlets.

- **“SWITCHED” outlets** (For tuner, this unit, cassette tape deck)  
Power is controlled by the power switch of each unit.
- **“UNSWITCHED” outlets** (For compact disc player, graphic equalizer)  
Power is always available, regardless of power switch setting.

## DISASSEMBLY INSTRUCTIONS

<b>Ref. No.</b> 1	<b>Removal of the cabinet</b>	<b>Ref. No.</b> 2	<b>Removal of the front panel</b>
<b>Procedure</b> 1	<ul style="list-style-type: none"> <li>Remove the 6 screws (①~⑥).</li> </ul>	<b>Procedure</b> 1→2	<ol style="list-style-type: none"> <li>Remove the 3 screws (①~③).</li> <li>Remove the flat cable (J501).</li> <li>Pull out the 1 connector (J801D).</li> <li>Remove the front panel in the direction of the arrow.</li> </ol>
			
<b>Ref. No.</b> 3	<b>Removal of the power switch P.C.B.</b>		
<b>Procedure</b> 1→2→3	<ol style="list-style-type: none"> <li>Remove the power switch knob by pushing it from behind the front panel.</li> <li>Remove the 2 screws (①, ②).</li> </ol>	<b>Removal of the flat cable</b> <p>Pull out the flat cable while pressing the connector.</p> 	
		<b>Removal of the microcomputer/FL P.C.B. and volume P.C.B.</b>	
<b>Ref. No.</b> 4	<b>Removal of the volume P.C.B.</b>	<b>Removal of the microcomputer/FL P.C.B.</b>	
<b>Procedure</b> 1→2→4	<ol style="list-style-type: none"> <li>Remove the 1 knob (⑨).</li> <li>Remove the 1 nut (⑩).</li> </ol>	<ol style="list-style-type: none"> <li>Remove the 3 knobs (①~③).</li> <li>Remove the 3 nuts (④~⑥).</li> <li>Remove the 2 screws (⑦, ⑧).</li> <li>Push the 3 claws and remove the microcomputer/FL P.C.B.</li> </ol>   <div data-bbox="1294 1715 1541 2063" style="border: 1px solid black; padding: 5px;">  <p>           A: 11 mm            B: 16 mm            C: longer than 18 mm         </p> <p>● Use a wrench of the dimensions shown in the illustration above to remove nuts.</p> </div>	

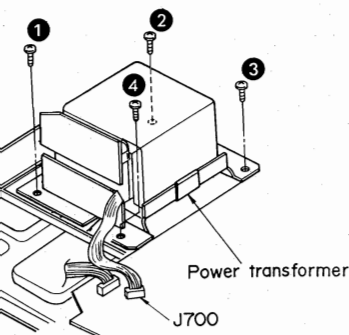
<b>Ref. No.</b> 5	<b>Removal of the surround/super bass P.C.B., input selector switch P.C.B. and LED P.C.B.</b>	<b>Ref. No.</b> 6	<b>Removal of the digital input P.C.B. AC outlet P.C.B. and AC inlet P.C.B.</b>
<b>Procedure</b> 1→2→4→5  Removal of the surround/super bass P.C.B. 1. Remove the 3 screws (2~4). 2. Push the 5 claws and remove the input selector switch P.C.B. Removal of the LED P.C.B. •Remove the 1 screw (5).		<b>Procedure</b> 1→6  Removal of the digital input P.C.B. 1. Pull out the 2 connectors (J200B, J801D). 2. Remove the 2 screws (1, 2).  Removal of the AC inlet P.C.B. •Pull out the 2 claws in the direction of the arrow. Removal of the AC outlet P.C.B. •Unsolder the 2 terminals.	
<b>Ref. No.</b> 7	<b>Removal of the speaker terminal P.C.B.</b>	<b>Ref. No.</b> 8	<b>Checking of the main P.C.B.</b>
<b>Procedure</b> 1→6→7  •Remove the 3 screws (1~3).		<b>Procedure</b> 1→6→8  1. Remove the 6 screws (1~6). 2. Remove the flat cable (J207, J700).	
<b>Procedure</b> 6. Remove the 3 screws (13~15).		<b>Procedure</b> 3. Remove the 6 screws (7~12). 4. Remove the shorting pin. 5. Pull out the 1 connector (J207).	

<b>Ref. No.</b> 9	<b>Removal of the power transformer</b>	<b>Ref. No.</b> 10	<b>Removal of the power IC and regulator transistor</b>
<b>Procedure</b> 1→6→8→9  1. Remove the 4 screws (1~4). 2. Remove the flat cable (J700).	<b>Procedure</b> 1→8→10  1. Unsolder the power IC or regulator transistor. 2. Remove the 3 screws (1~3).	<b>Ref. No.</b> 11	<b>Removal of the fan motor</b>
<b>Procedure</b> 1→11  1. Pull out the 1 connector (J207). 2. Remove the 3 claws.	<b>Procedure</b> 3. Insert a screwdriver at the root of the cooling fan. Force it out of the motor shaft. 4. Remove the motor cover by used ⊖ screwdriver. 5. Remove the motor from the fan casing. 6. When mounting the motor fan, align the fan casing's projection with the hole of the fan motor.	<b>Procedure</b> 1→11  1. Pull out the 1 connector (J207). 2. Remove the 3 claws.	
			



### Removal of the power transformer

Remove the 4 screws (1~4).  
Remove the flat cable (J700).

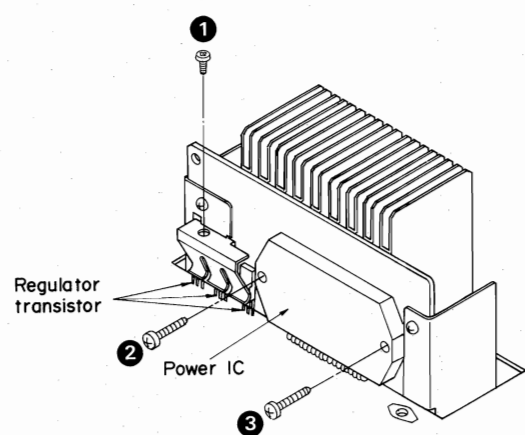


Ref. No.  
10

### Removal of the power IC and regulator transistor

Procedure  
1→8→10

1. Unsolder the power IC or regulator transistor.  
2. Remove the 3 screws (1~3).

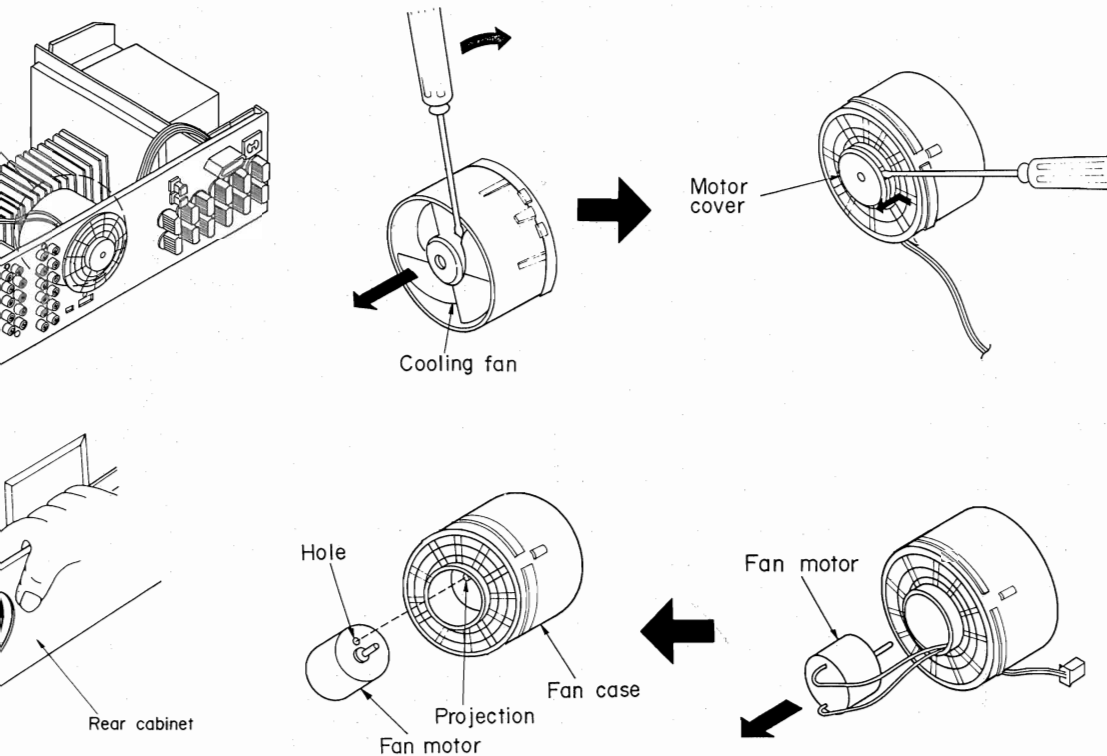


•When mounting the power IC or regulator transistor.  
Apply silicone compound (SZZOL15) to the rear side of power IC or regulator transistor.

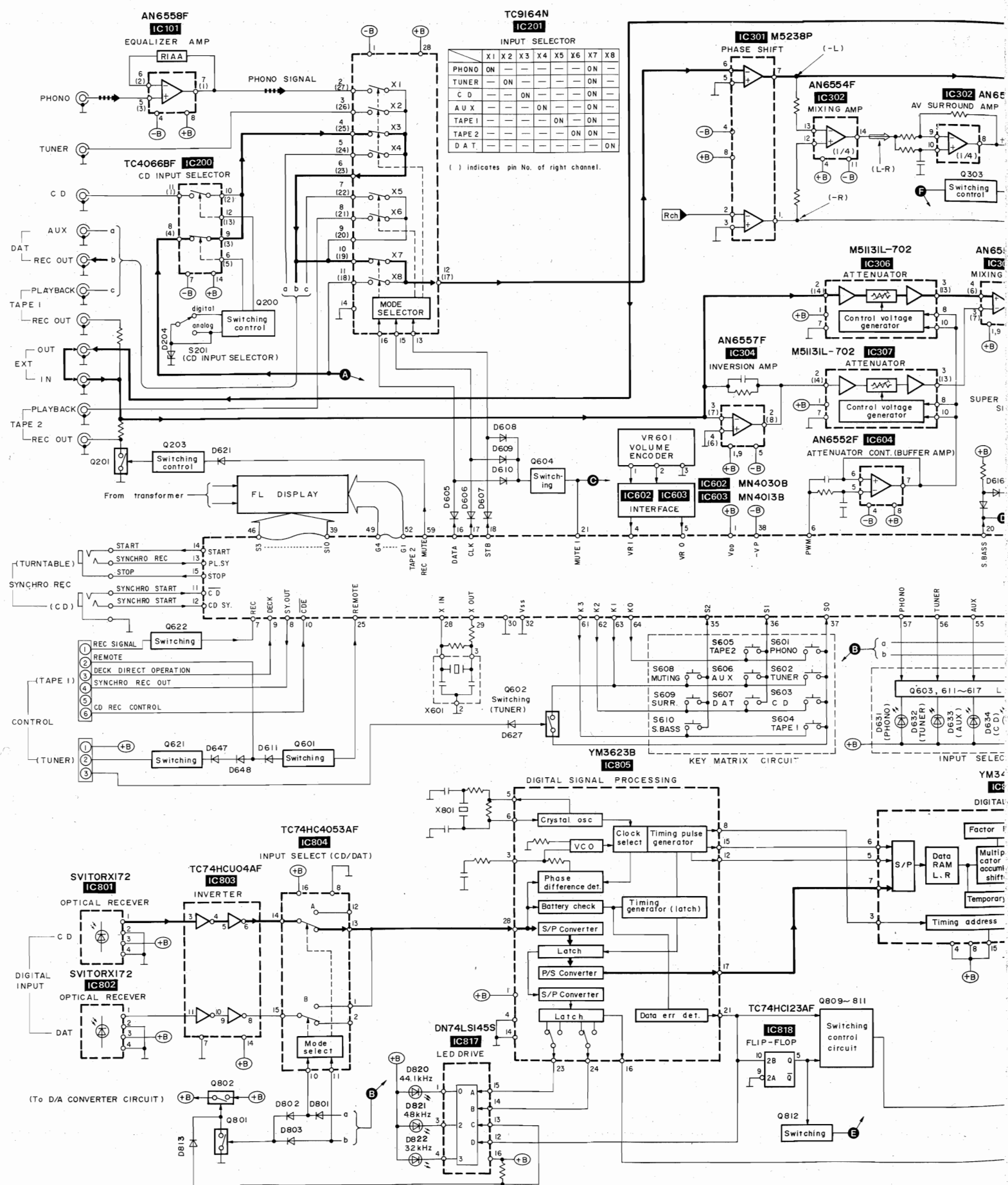
### Removal of the fan motor

Remove the 1 connector (J207).  
Remove the 3 claws.

3. Insert a screwdriver at the root of the cooling fan. Force it out of the motor shaft.  
4. Remove the motor cover by used ⊖ screwdriver.  
5. Remove the motor from the fan casing.  
6. When mounting the motor fan, align the fan casing's projection with the hole of the fan motor.



## ■ BLOCK DIAGRAM







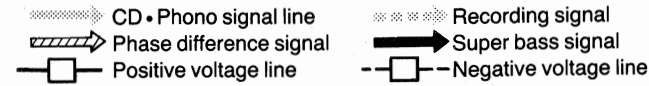
# SCHEMATIC DIAGRAM

(Parts list on page 27~31)

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

**Notes:**

- S201 : CD input selector switch in "digital" position.
- S501 : Speaker selector switch in "A" position.
- S601~S607 : Input selector switches.  
 { S601: Phono, S602: Tuner, S603: CD, S604: Tape 1  
 S605; Tape 2, S606: AUX, S607: DAT, }
- S608 : Audio muting selector switch.
- S609 : Surround selector switch.
- S610 : Super bass switch.
- S700 : Power source switch in "on" position.
- S701 : Voltage selector switch in "220 V" position (110 V/127 V/220 V/240 V) For (G) area only.

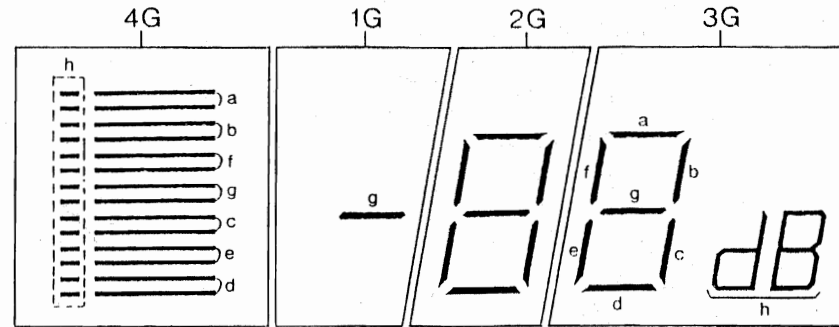


- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- Important safety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

## DESCRIPTION OF FL PANEL

### GRID ASSIGNMENT

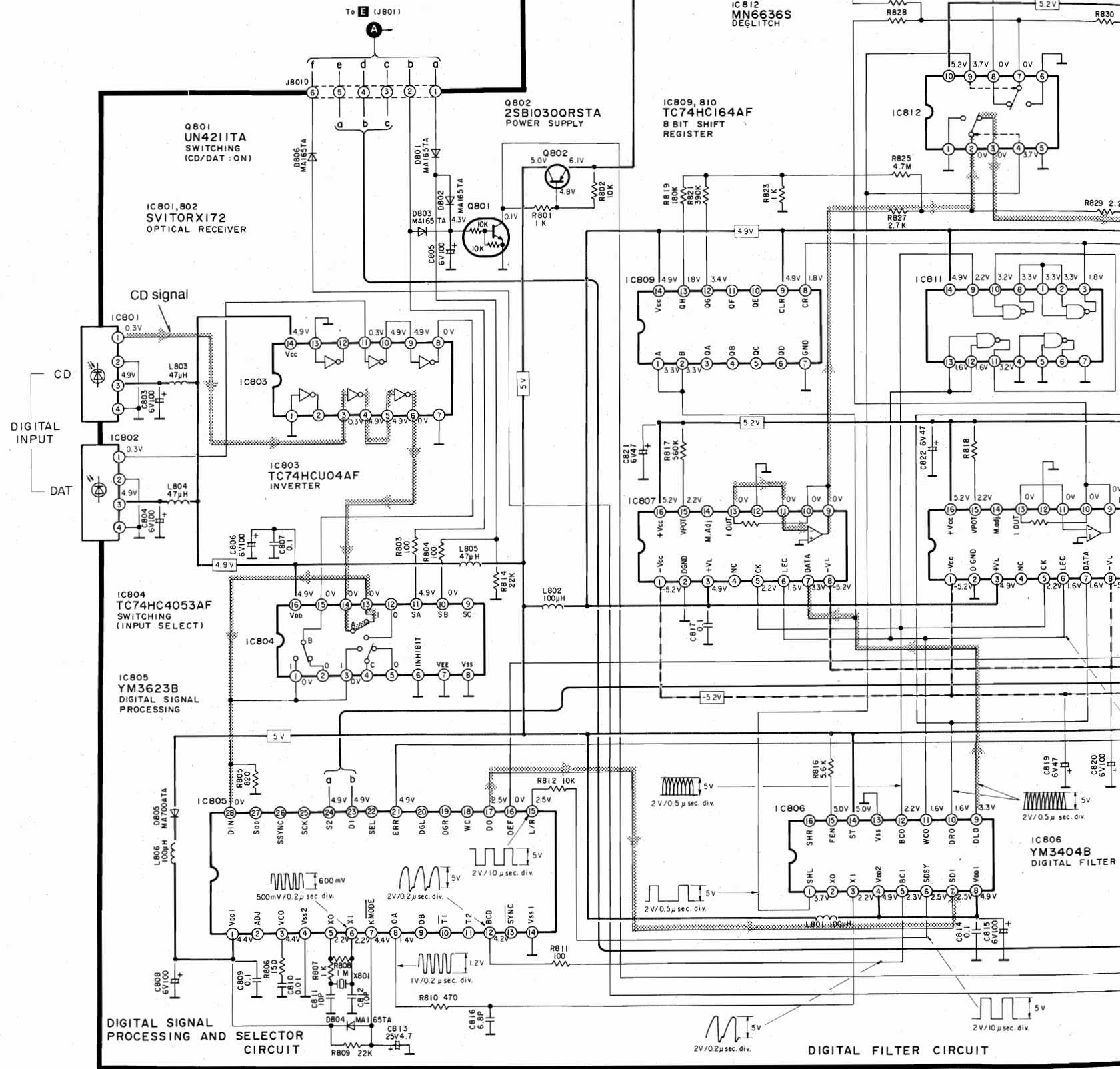


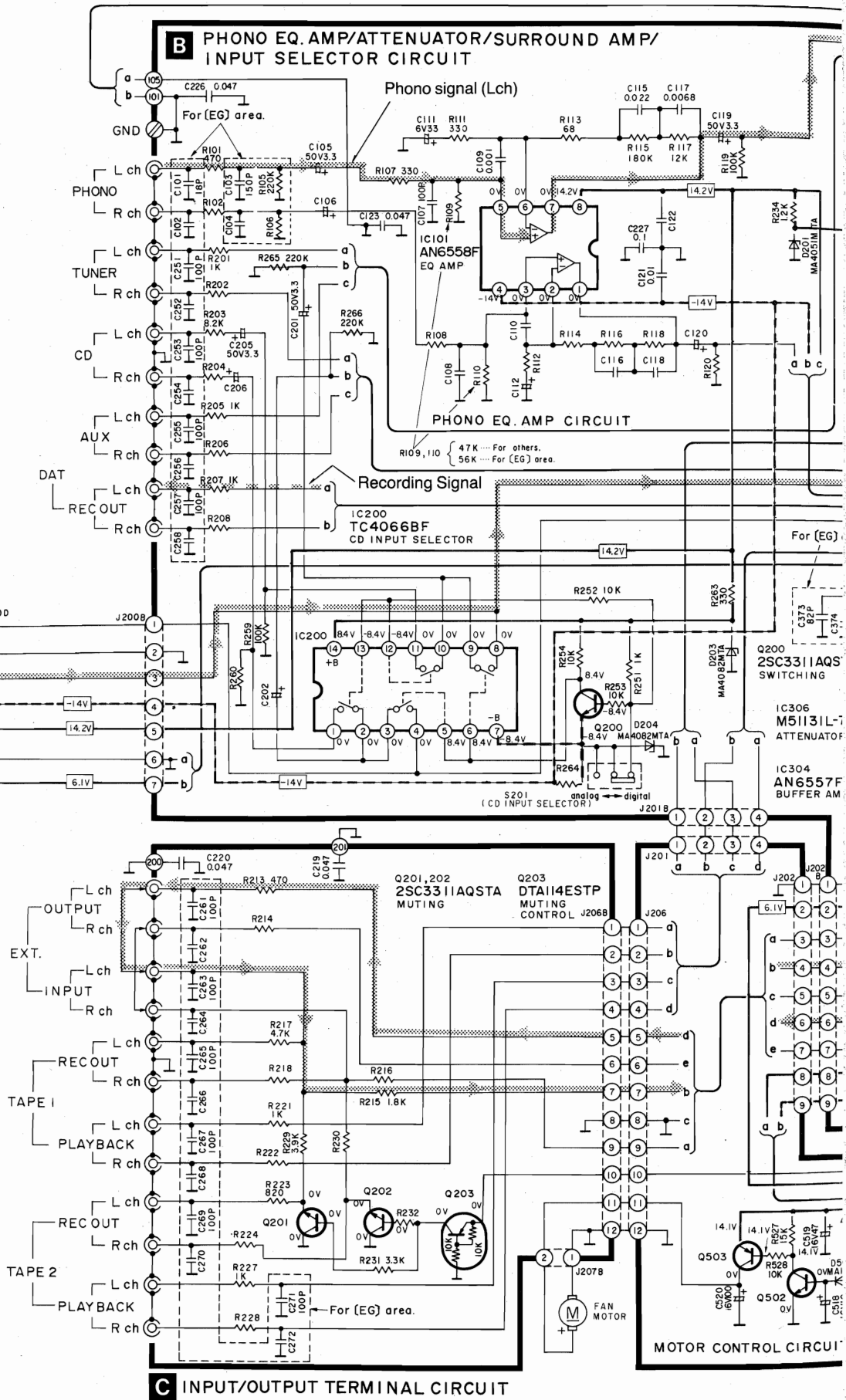
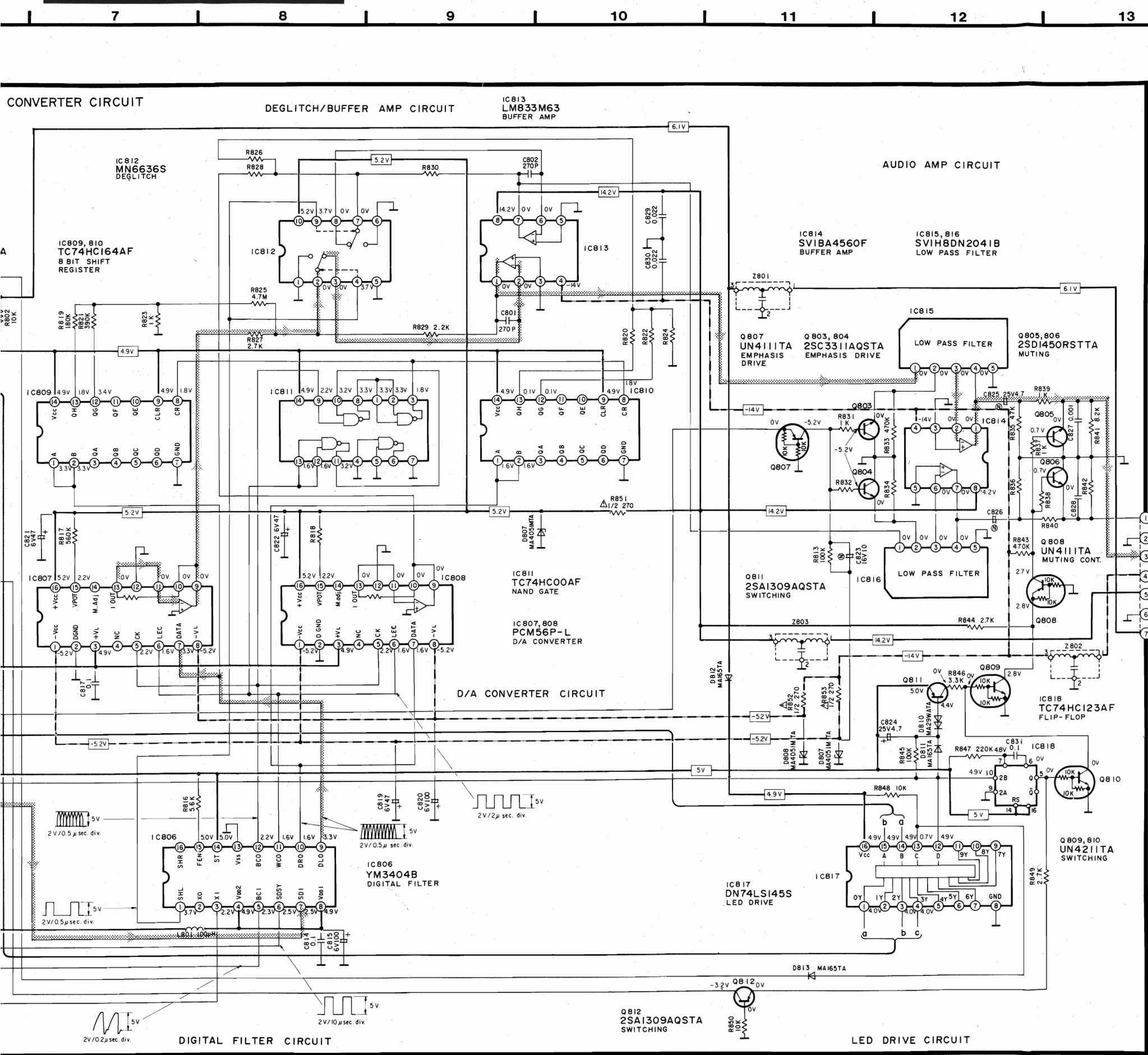
### PIN CONNECTION

Pin No.	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Connection	F2	F2	NP	a	4G	b	c	d	1G	e	f	2G	g	3G	NP	h	3G	NP	F1	F1

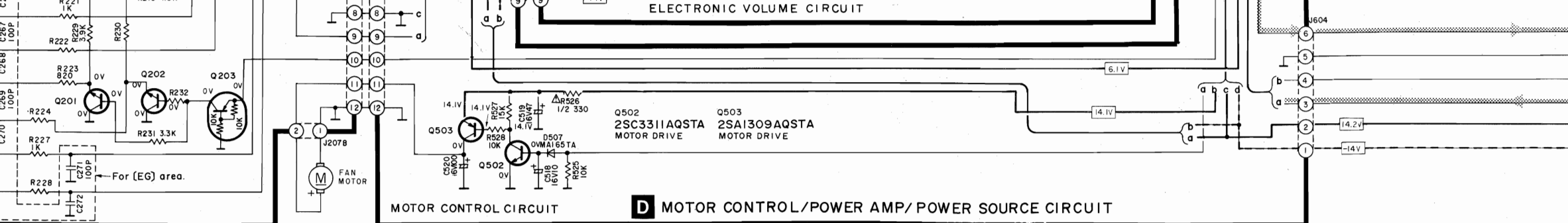
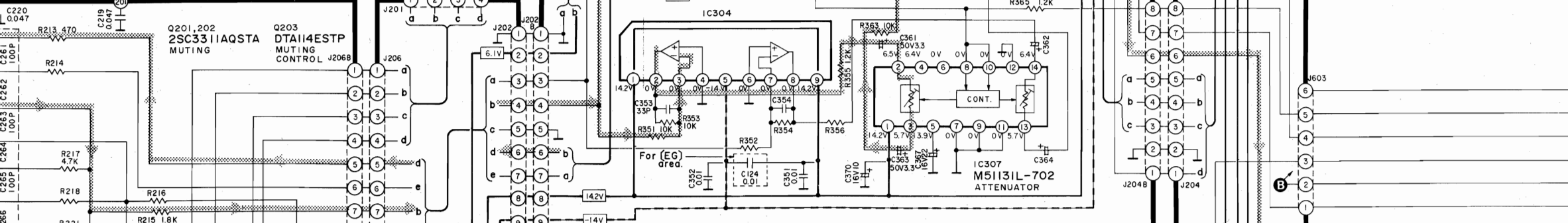
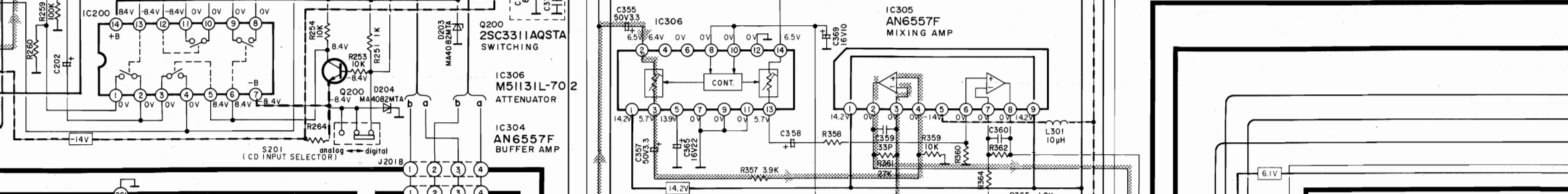
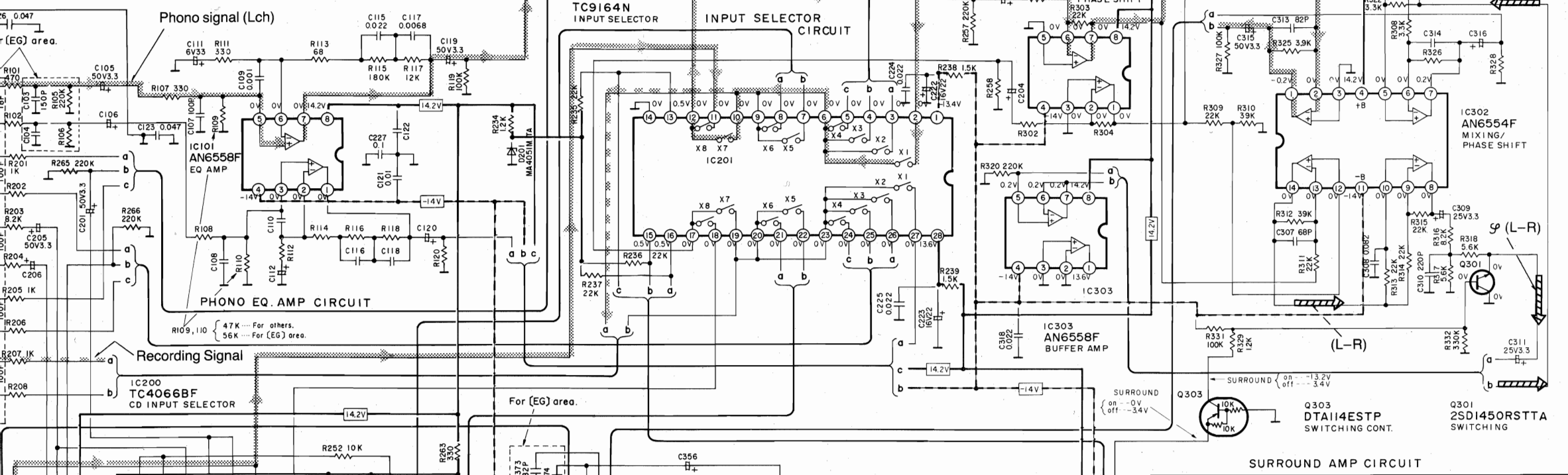
## D/A CONVERTER CIRCUIT

## DEGLITCH/BUFFER AMP CIRCUIT





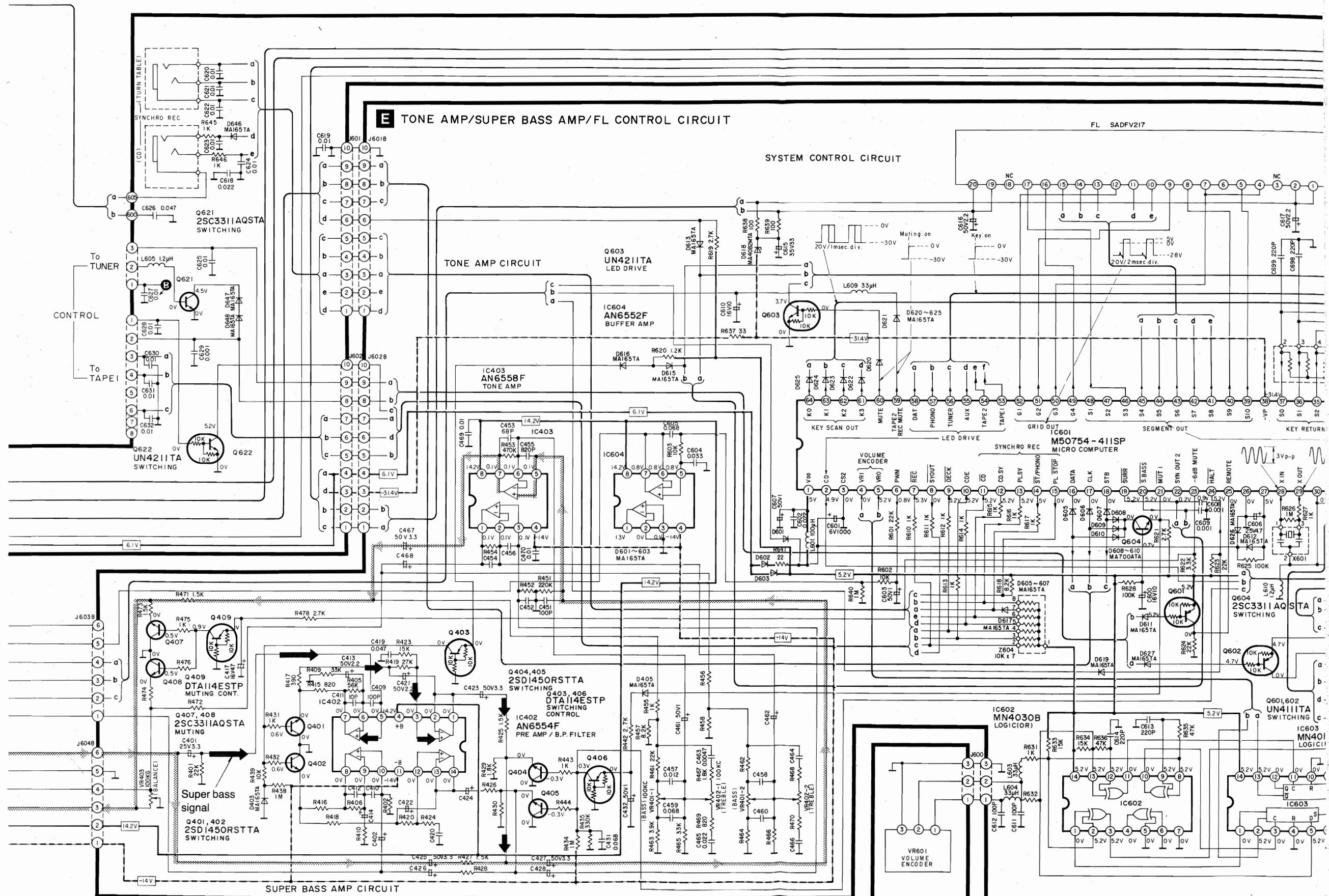
PHONO EQ. AMP/ATTENUATOR/SURROUND AMP/ INPUT SELECTOR CIRCUIT



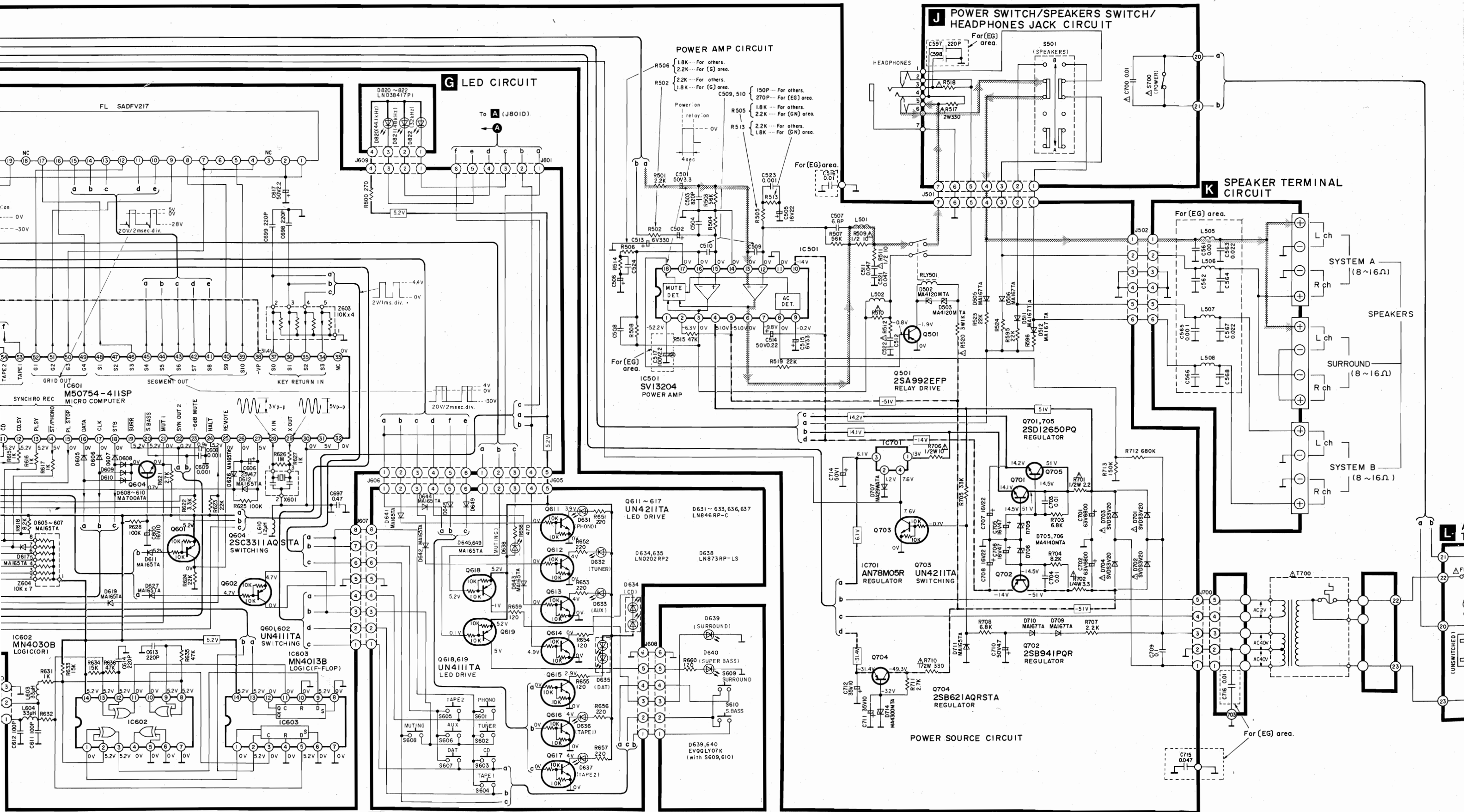
PUT/OUTPUT TERMINAL CIRCUIT



D MOTOR CONTROL/POWER AMP/ POWER SOURCE CIRCUIT







**H** INPUT SELECT SWITCH/LED DRIVE CIRCUIT

**I** SURROUND/SUPER BASS SWITCH CIRCUIT

**L** POWER SOURCE CIRCUIT

**K** SPEAKER TERMINAL CIRCUIT

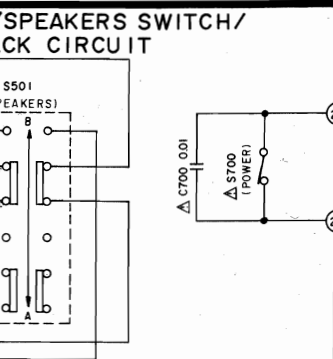
**J** POWER AMP CIRCUIT

**M** HEADPHONES/SPEAKERS SWITCH/ HEADPHONES JACK CIRCUIT

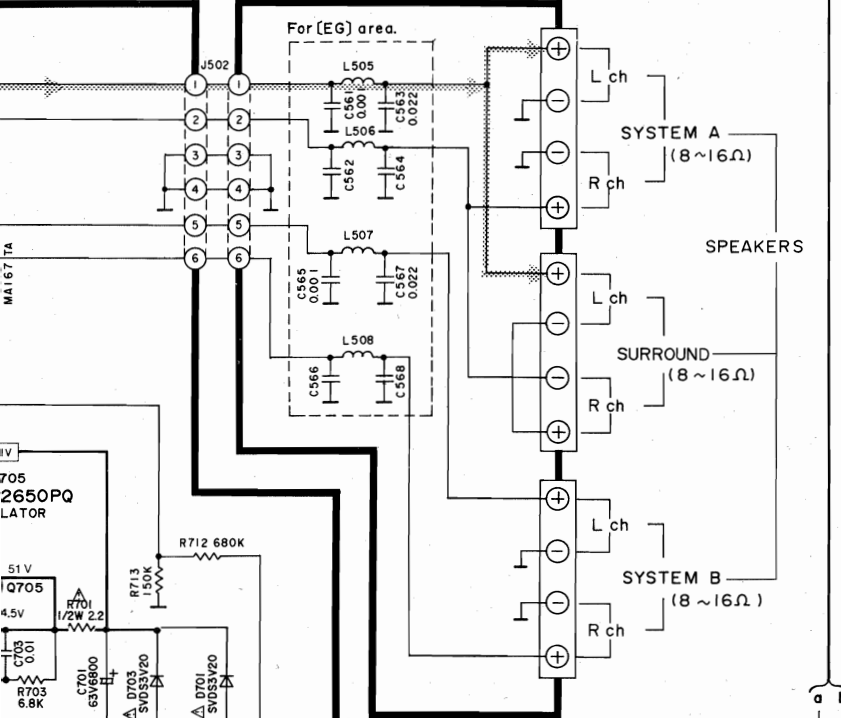
**G** LED CIRCUIT

IT

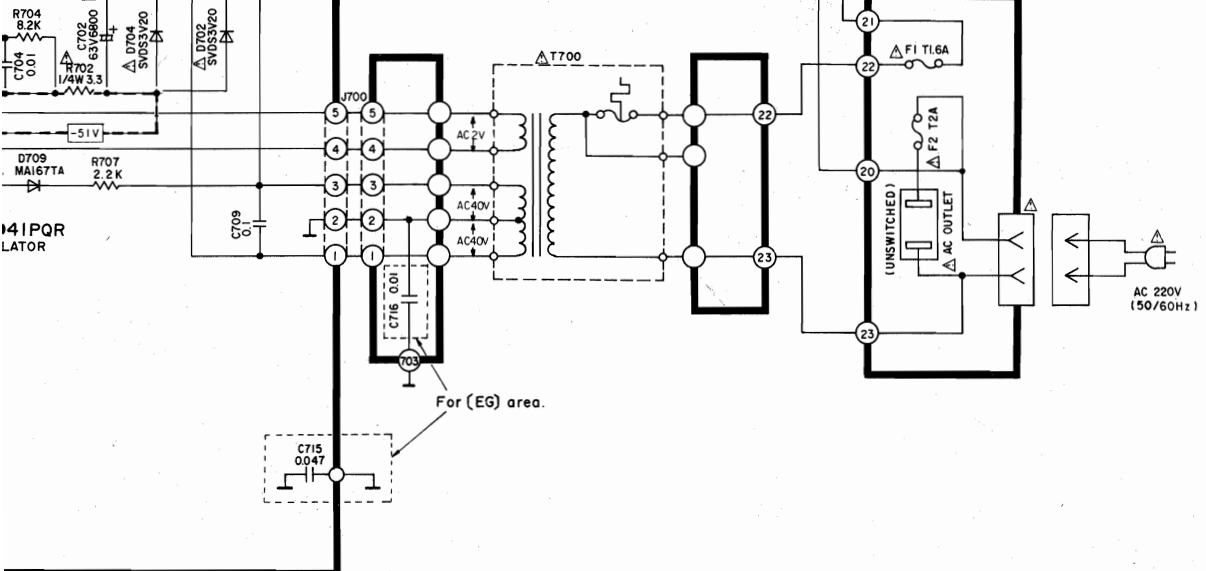
FI



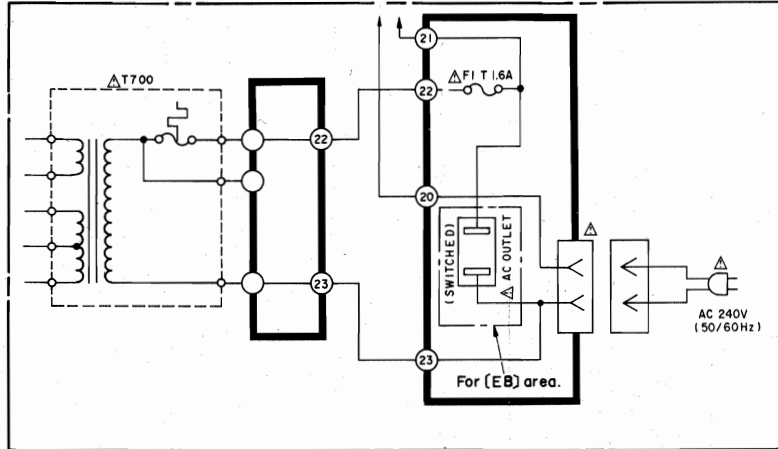
**K** SPEAKER TERMINAL CIRCUIT



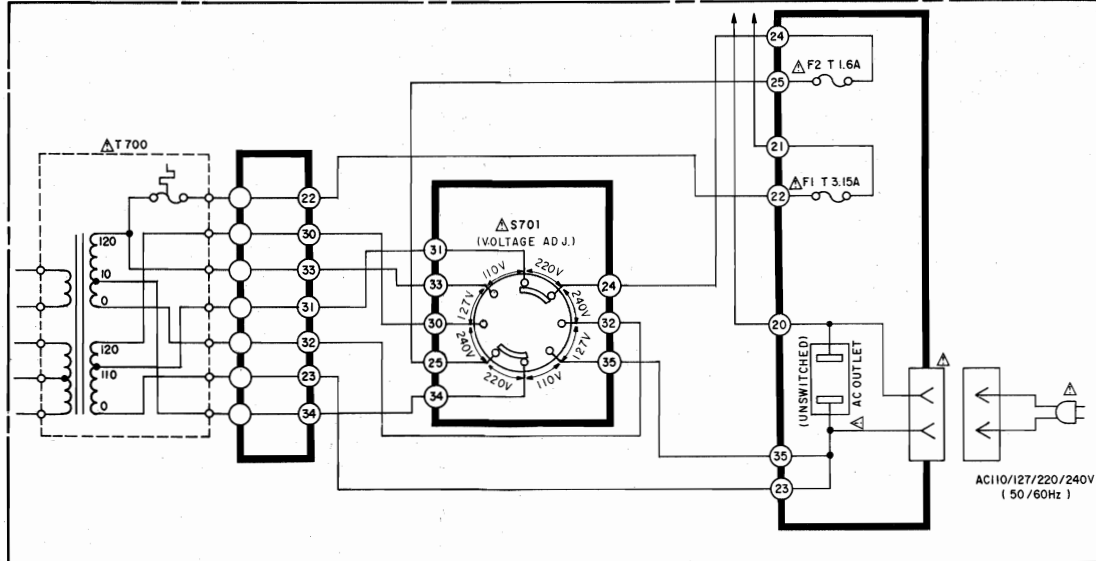
**L** AC IN/AC OUTLET TERMINAL CIRCUIT



Power Source For (EB,GN) areas.

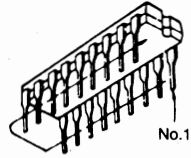
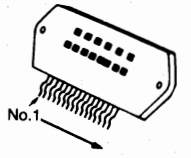
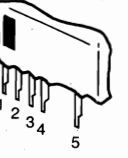
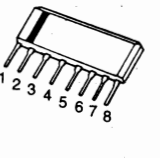

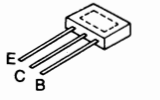
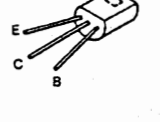
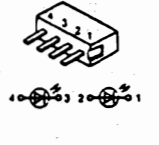
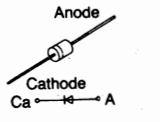
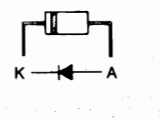
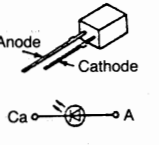
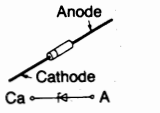


Power Source For (G) area.



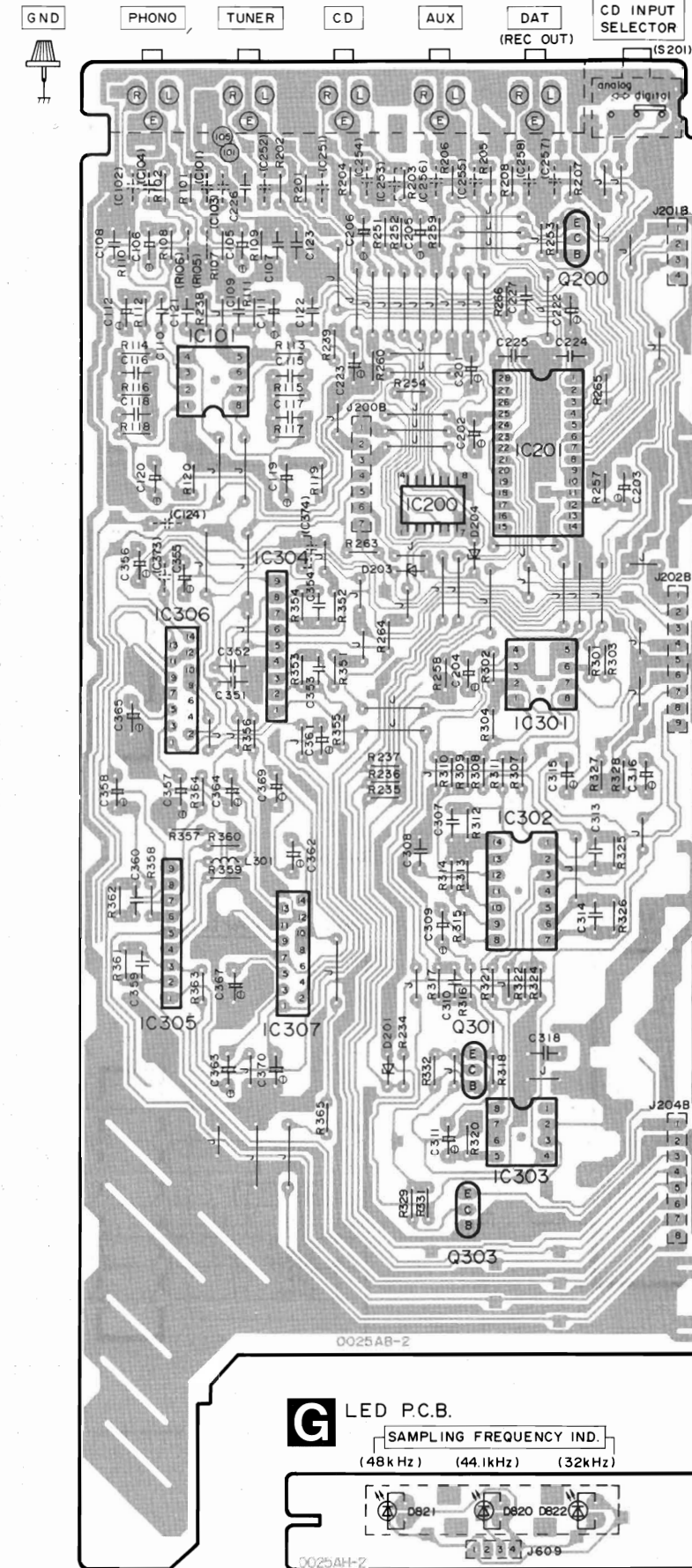


■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

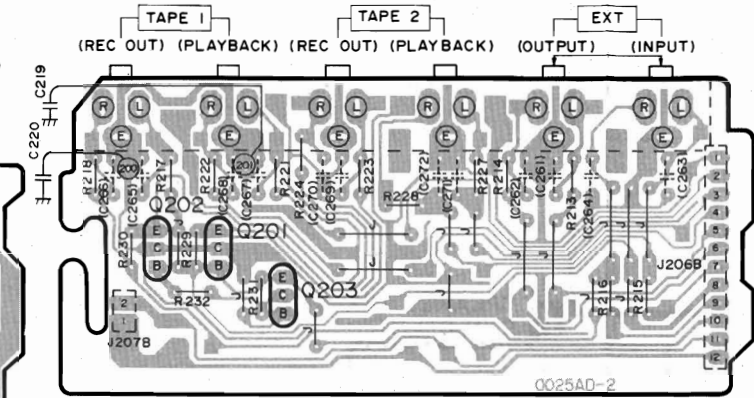
AN6552F AN6558F TC4066BF M5238P SVILM833M SVIBA4560F	8 pin	TC74HC4053AF TC74HC123F DN74LS145S SM5807ES PCM56P-L	16 pin	 No.1
MN6636S AN6554 MN4030B MN4013B TC74HCU04F	10 pin 14 pin	TC9164N YM3623B M50754-411SP	28 pin 64 pin	
SV13204	18 pin	AN78M05R	4 pin	M51131L-702  No.1
SVIH8DN2041B		AN6557F		2SD1265-P 2SB941PQR 
2SC3311A-Q, UN4111 2SA1309AQ, UN4211 2SD1450R DTA114ESTP 2SB1030Q		2SB621A-R 2SA992E		LN0202RP2 
MA167 MA29WA MA165 MA700A	Anode  Cathode Ca → A	SVDS3V40		LN846RP-C LN873RP-LS LN038417P1  Anode Cathode Ca → A
MA4051, MA4120 MA4082M, MA4140M, MA4300M	Anode  Cathode Ca → A			

■ PRINTED CIRCUIT BOARDS (Parts list on page 27~31)

**B** PHONO EQ. AMP/ATTENUATOR /SRROUND AMP/ INPUT SELECTOR P.C.B.

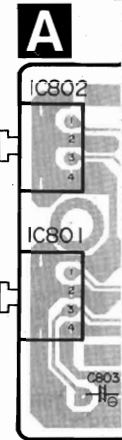


**C** INPUT/OUTPUT TERMINAL P.C.B.

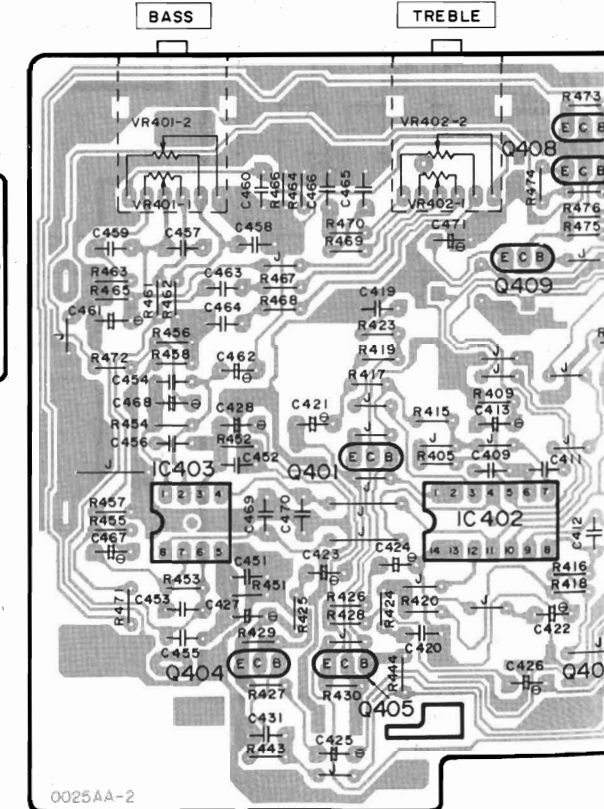


Note:  
---(C) Capacitors and Resistors indicated by (C) or (R) area. used only in the EG(F.R.Germany/ Italy) area.

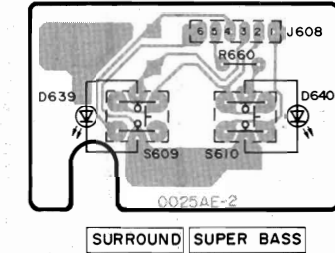
D/A CONVERTER P.C.B.



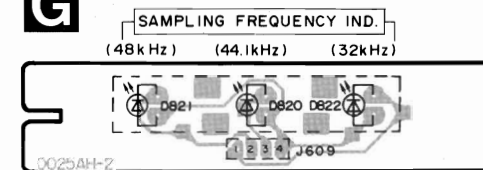
**E** TONE AMP/SUPER BASS AMP/ FL CONTROL P.C.B.



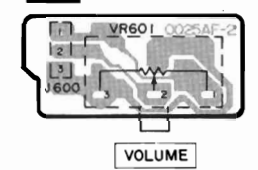
**I** SURROUND/SUPER BASS SWITCH P.C.B.



**G** LED P.C.B.

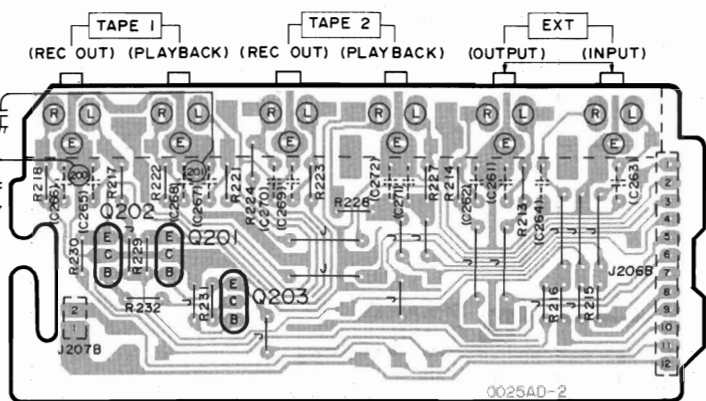


**F** VOLUME P.C.B.



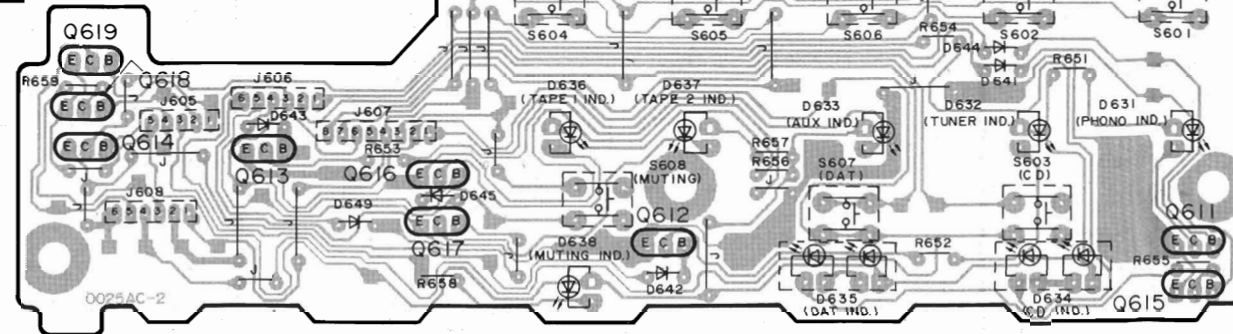
Continued on page 27-31

**C** INPUT/OUTPUT TERMINAL P.C.B.

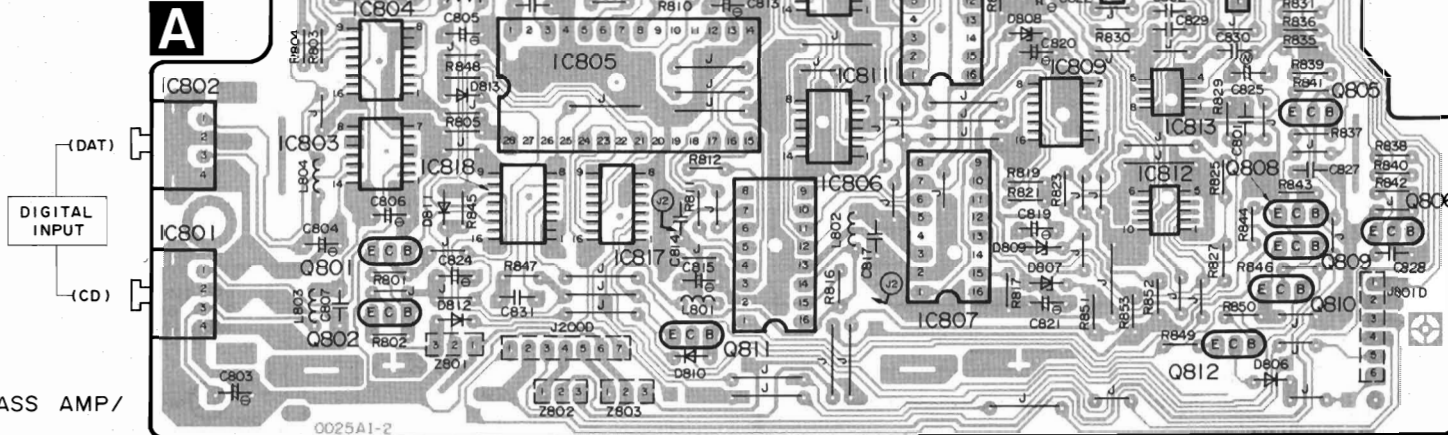


Note:  
 ---(C) Capacitors and Resistors indicated by (C) or (R) area, used only in the EG(F.R.Germany/Italy) area.  
 ---(R)

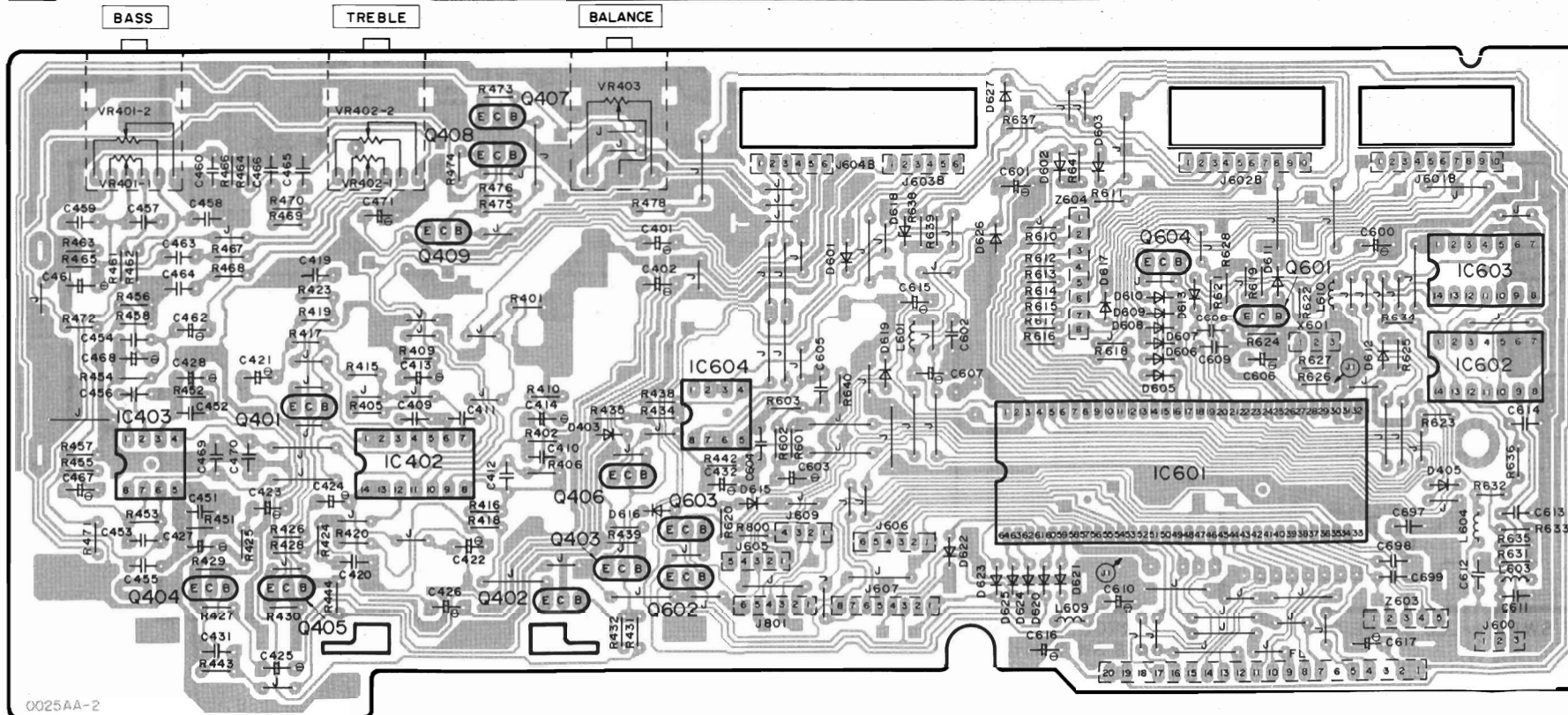
**H** INPUT SELECT SWITCH / LED DRIVE P.C.B.



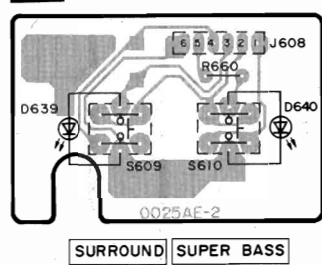
**A** D/A CONVERTER P.C.B.



**E** TONE AMP/SUPER BASS AMP / FL CONTROL P.C.B.

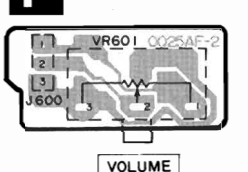


**I** SURROUND/SUPER BASS SWITCH P.C.B.

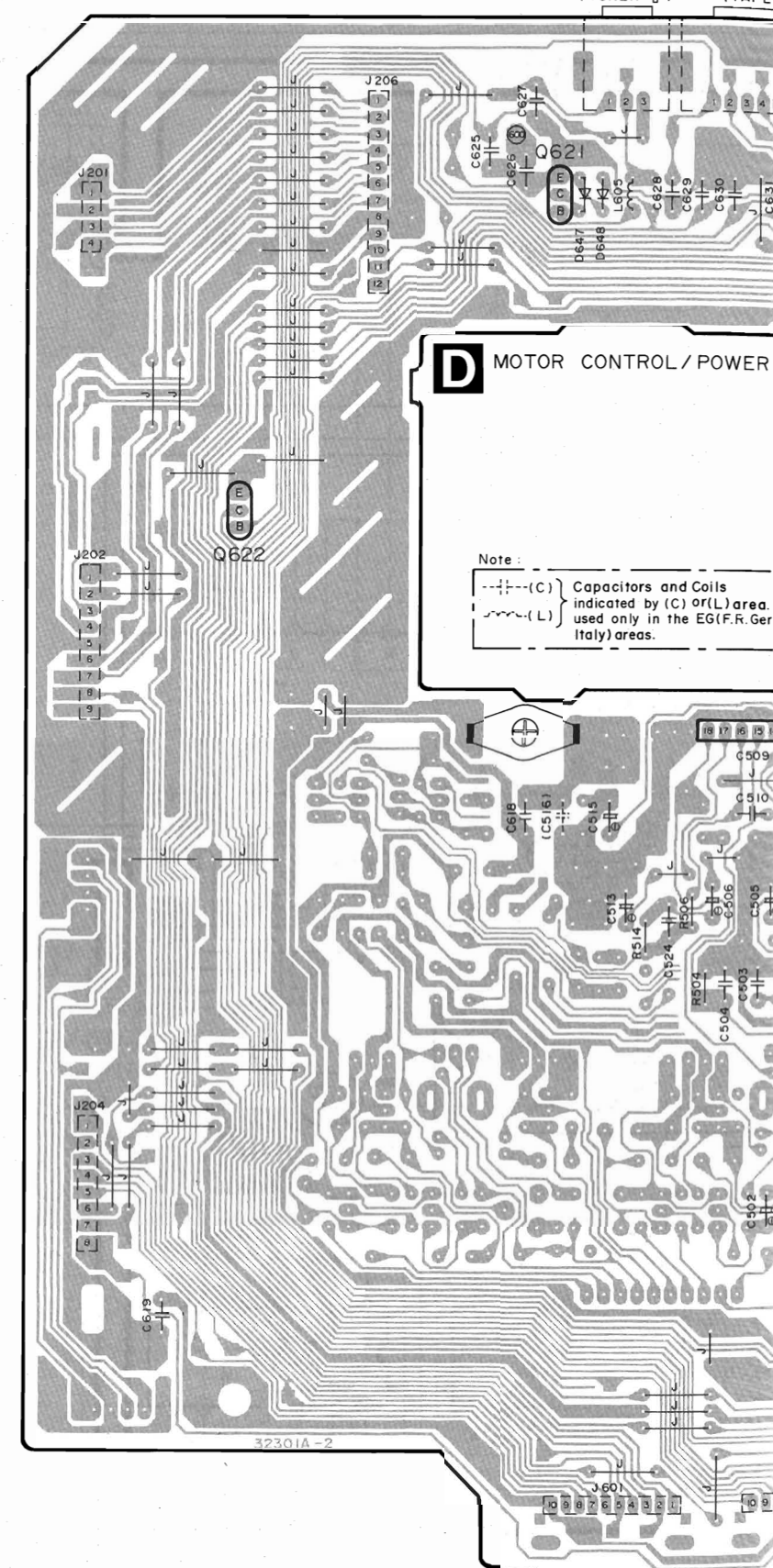


SURROUND SUPER BASS

**F** VOLUME P.C.B.

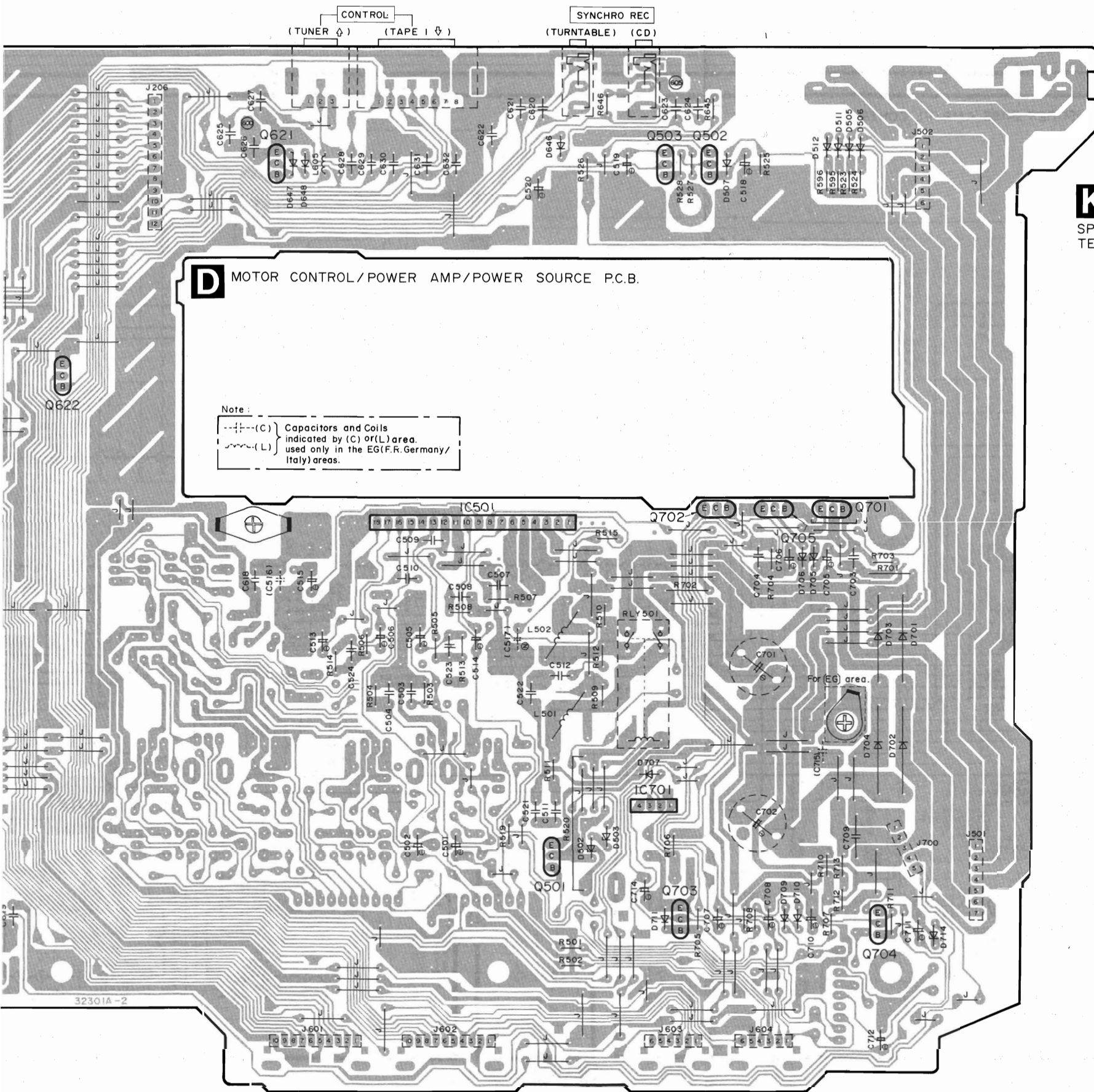


**D** MOTOR CONTROL / POWER

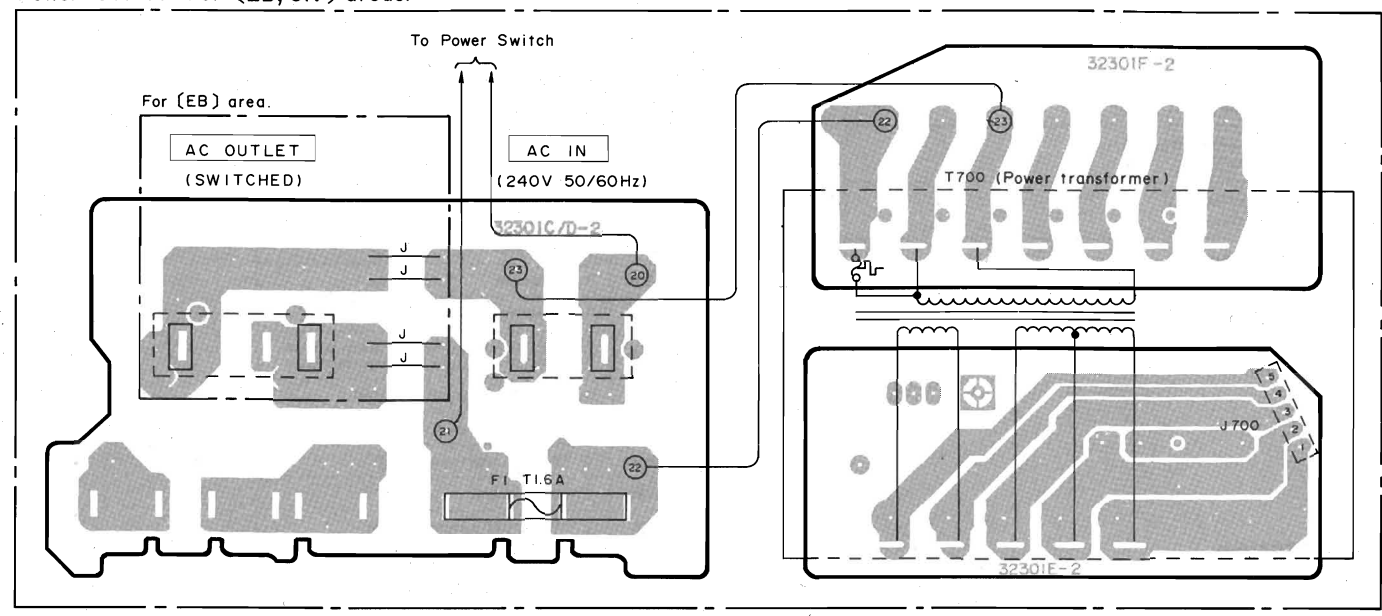


Note:  
 ---(C) Capacitors and Coils indicated by (C) or (L) area, used only in the EG(F.R.Germany/Italy) areas.  
 ---(L)

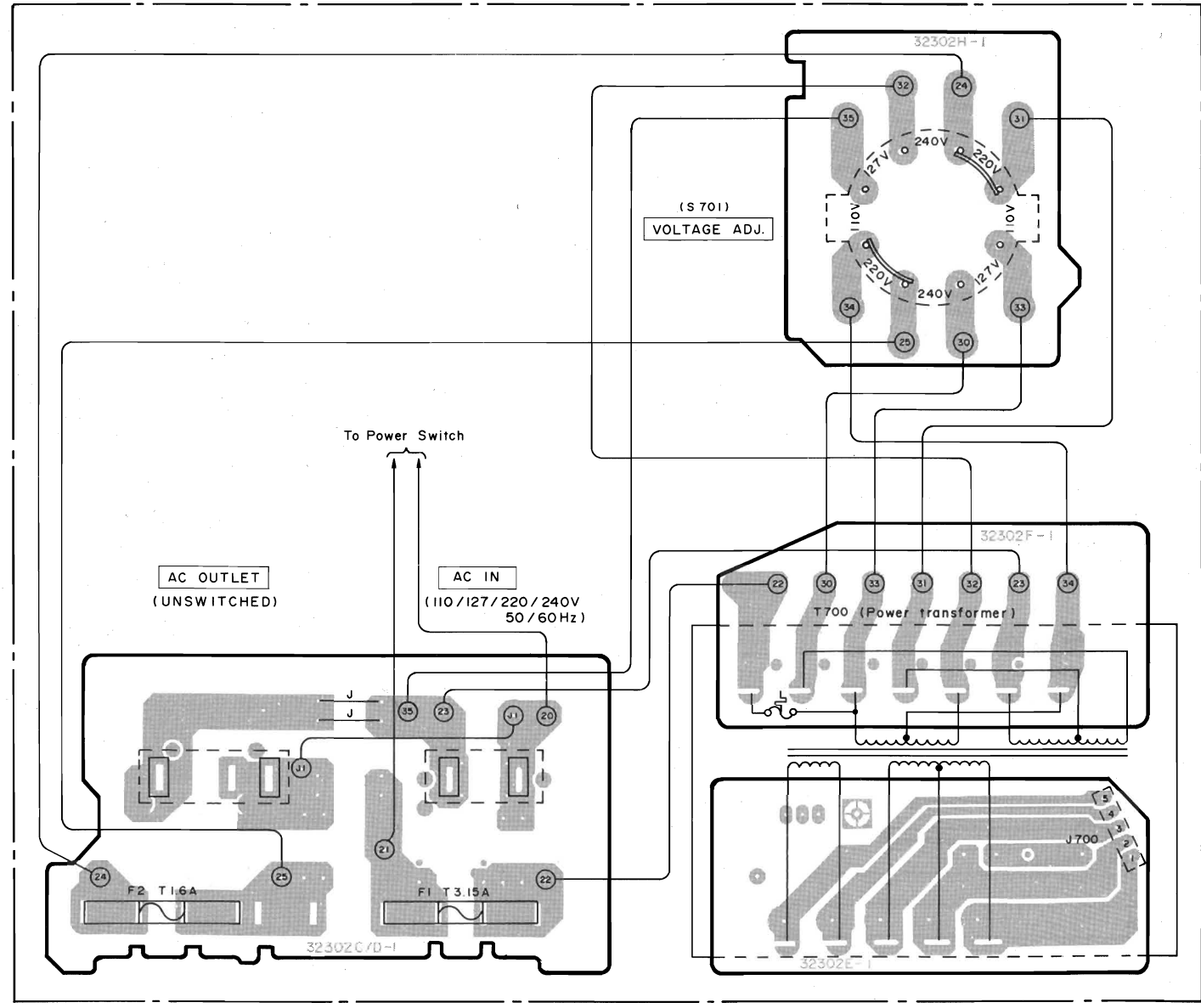




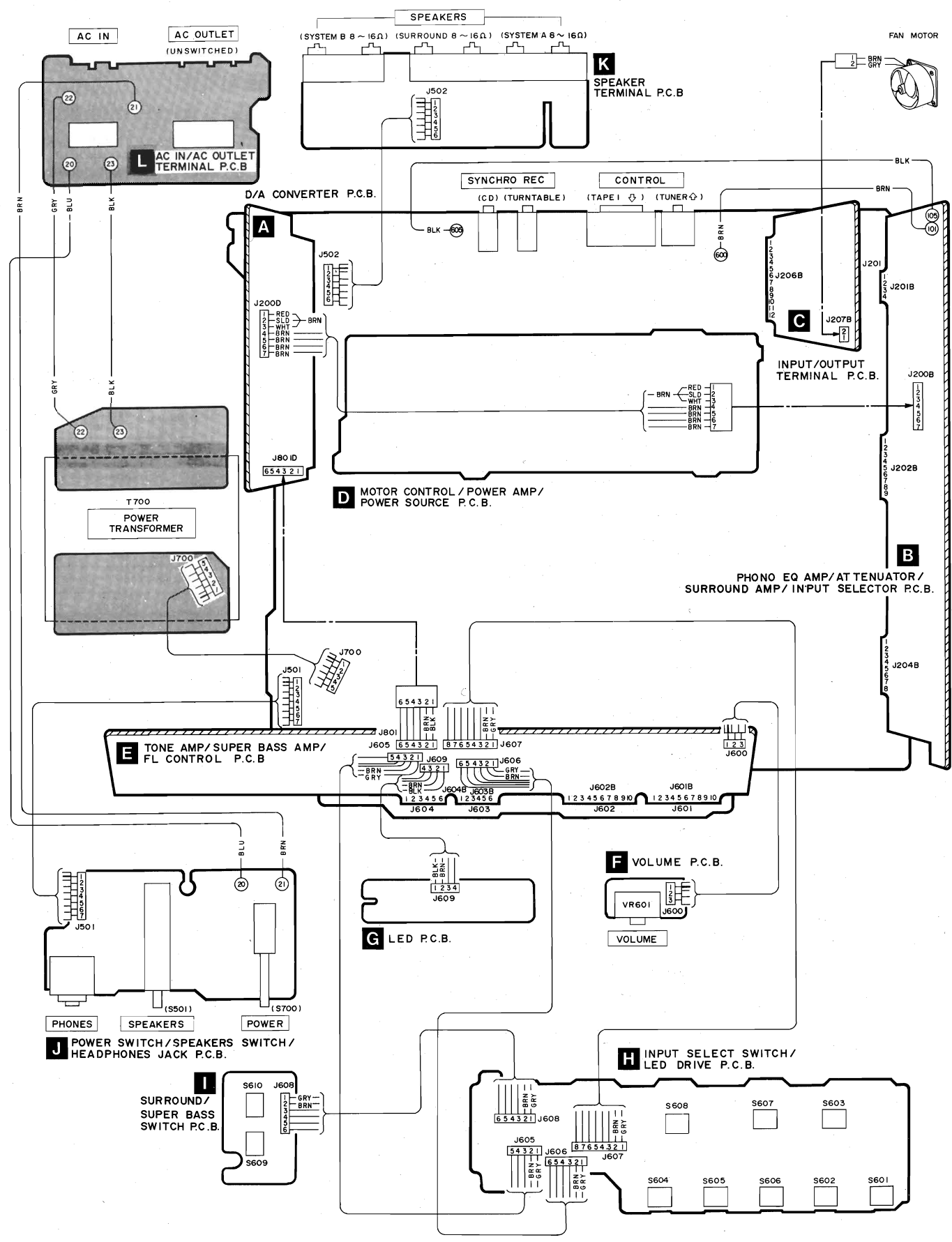
Power Source For (EB,GN) areas.



Power Source For (G) area.



WIRING CONNECTION DIAGRAM



FUNCTIONS OF IC TERMINALS

IC601 (M50754-411SP) MICRO COMPUTER

Pin No.	I/O	Terminal Name	Function
1	I	V <sub>cc</sub>	To be connected to a power supply.
2	O	LCD	This is the output terminal for the LED selector indicator of the CD player. At a "HI" level ..... the LED lights up.
3	—	CS2	For ground connection.
4	I	VR1	These are the terminals for the rotary encoder of the volume of VR601.
5		VR0	
6	O	PWM	This terminal outputs the signal for the control of the volume and balance
7	I	REC	This is the terminal for the detection of recording on the deck.
8	O	SY OUT	This is the terminal for synchro recording on the deck.
9	I	DECK	This is the terminal for direct operations on the deck.
10	I	CDE	Outputs the signal for the control of CD editing.
11	I	CD	These are the terminals for the start of synchronization on the CD unit.
12		CD. SY.	
13	I	PL. SY.	These are the terminals for sync recording on the player.
14	O	PL. START	
15	O	PL. STOP	
16	O	DATA	CLK: This terminal outputs the clock signal for reading serial data. DATA: This terminal outputs the serial data. STB: This terminal outputs the pulse for the control of the setting of the analog switch.
17		CLK	
18		STB	The serial data inputted into IC201 is latched by the STB pulse and the switch is set to ON according to data.
19	O	SURR	Outputs the signal for the control of SURROUND. At a "LOW" level ..... SURROUND is ON.
20	O	S. LOUD	Outputs the signal for the control of SUPER DYNAMIC SOUND. At a "LOW" level ..... SUPER DYNAMIC SOUND is ON.
21	O	MUT 1	Outputs the signal for the control of muting.
22	—	SYN OUT 2	Unused.
23	O	MUTE	Outputs the -6 dB signal for the control of attenuated muting.
24	I	HALT	This is the terminal for the detection of power supply.
25	I	REMOTE	Inputs data from the remote controller.
26	—	CN VSS	For ground connection.
27	I	RESET	This terminal inputs the reset signal.
28	I	X IN	These are the I/O terminals for the oscillating clock signal.
29	O	X OUT	
30	—	X <sub>c</sub> IN	Unused.
31		X <sub>c</sub> OUT	
32	—	V <sub>ss</sub>	For ground connection.
33	—	NC	Unused.
35 37	O	S0 S2	These are the key matrix terminals for input selection.
61 64		K0 K3	
38	I	V <sub>p</sub>	The signal which pulls down the voltage is inputted into this terminal.
39 46 49 52	O	S3 S10 G0 G3	These terminals output the signals for the control of the multi-digit display.
53		L TAPE	Outputs the signal for the control of the TAPE LED. At a "HI" level ..... the LED lights up.
54		L VTR	Outputs the signal for the control of the VTR LED. At a "HI" level ..... the LED lights up.
55		L VD	Outputs the signal for the control of the VD LED. At a "HI" level ..... the LED lights up.

	O	35	36	37
61		SUPER DYNAMIC SOUND	—	TAPE
62		SURROUND	DAT	CD
63		MUTING	VD	TUNER
64		—	VTR	PHONO

Pin No.	I/O	Terminal Name	Function
56	O	L TUNER	Outputs the signal for the control of the TUNER LED. At a "HI" level ..... the LED lights up.
57	O	L PHONO	Outputs the signal for the control of the PHONO LED. At a "HI" level ..... the LED lights up.
58	O	L DAT	Outputs the signal for the control of the DAT LED. At a "HI" level ..... the LED lights up.
59	O	VTR REC MUTE	Outputs the signal for muting the VTR recording.
60	O	L MUTE	Outputs the signal for the control of the MUTING LED. At a "HI" level ..... the LED lights up.

IC806 (YM3623B) DIGITAL INTERFACE RECEPTION

(PU) terminals are "pulled up".

Pin No.	Terminal Name	I/O	Function																																										
1	VDD1	—	This is the power connection terminal (+5 V).																																										
2	ADJ	I	This terminal is for the adjustment of the VCO oscillation frequency, but it is not used in this unit.																																										
3	VCO	I/O	This is the external condenser terminal for the VCO circuitry.																																										
4	VSS2	—	This is the ground connection terminal of the system.																																										
5	XO	O	This is the output terminal for the crystal vibrator (16.9344 MHz).																																										
6	XI	I	This is the input terminal for the crystal vibrator.																																										
7	KMODE	I (PU)	At a high level...the PLL circuitry is activated when the DIN terminal receives an input signal. Otherwise, the crystal vibrator is activated. At a low level...the crystal vibrator is activated, regardless of the DIN terminal input.																																										
8	ØA	O	This terminal outputs a 16.9344-MHz frequency when the crystal vibrator functions. When the PLL circuitry is activated, the frequency varies according to the speed of input data of the DIN terminal (fs=about 16.9344 MHz when it is 44.2 kHz).																																										
9	ØB	O	The frequency of this terminal is divided into a third of that of terminal ØA when the crystal vibrator functions. When the PLL circuitry is activated, the frequency varies according to the speed of input data of the DIN terminal (fs=about 16.9344 when it is 44.2 kHz).																																										
10	T1	I (PU)	This is the input terminal for checking the internal circuitry.																																										
11	T2	I (PU)	This is the input terminal for checking the internal circuitry.																																										
12	BCO	O	Used to output the time-clock signal from the DO terminal.																																										
13	SYNC	O	Used to output the synchronization signal.																																										
14	VSS1	O	This is the ground connection terminal of the system (+0 V).																																										
15	L/R	O	At a high level...data on the left channel is output from the DO terminal. At a low level...data on the right channel is output from the DO terminal.																																										
16	DEF	O	At a high level...input data is emphasized. At a low level...input data is not emphasized.																																										
17	DO	O	Outputs 16-bit data.																																										
18	WC	O	This is the terminal for checking data output to the DO terminal.																																										
19	DIGR	O	This terminal outputs the signal for the right channel.																																										
20	DIGL	O	This terminal outputs the signal for the left channel.																																										
21	ERR	O	Error detection terminal. H=Error is found during parity check L=No errors																																										
22	SEL	I (PU)	<table border="1"> <thead> <tr> <th>Input</th> <th>S1</th> <th>Function</th> <th>S2</th> <th>DC (except DAT)</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>L</td> <td>Copying is not possible</td> <td>L</td> <td>DC</td> <td>DAT</td> </tr> <tr> <td>L</td> <td>H</td> <td>Copying is possible</td> <td>L</td> <td>H</td> <td>DAT</td> </tr> <tr> <td>L</td> <td>L</td> <td></td> <td>L</td> <td>L</td> <td>The sampling frequency of the DIN input signal is 44.1 kHz</td> </tr> <tr> <td>L</td> <td>L</td> <td></td> <td>L</td> <td>H</td> <td>48 kHz</td> </tr> <tr> <td>H</td> <td>L</td> <td></td> <td>L</td> <td>H</td> <td>32 kHz</td> </tr> <tr> <td>H</td> <td>L</td> <td></td> <td>L</td> <td>L</td> <td></td> </tr> </tbody> </table>	Input	S1	Function	S2	DC (except DAT)	Function	L	L	Copying is not possible	L	DC	DAT	L	H	Copying is possible	L	H	DAT	L	L		L	L	The sampling frequency of the DIN input signal is 44.1 kHz	L	L		L	H	48 kHz	H	L		L	H	32 kHz	H	L		L	L	
Input	S1	Function	S2	DC (except DAT)	Function																																								
L	L	Copying is not possible	L	DC	DAT																																								
L	H	Copying is possible	L	H	DAT																																								
L	L		L	L	The sampling frequency of the DIN input signal is 44.1 kHz																																								
L	L		L	H	48 kHz																																								
H	L		L	H	32 kHz																																								
H	L		L	L																																									
23	S1	O																																											
24	S2	O																																											
25	SCK	O	Terminal for the clock-signal of the sub code output.																																										
26	SSYNC	O	For the signal of the sub code.																																										
27	SDO	O	For the output of sub code data.																																										
28	DIN	I (PU)	For the input of data.																																										

IC806 (YM3404B) Digital filter

Pin No.	Mark	I/O	Function
1	SHL	O	1DAC(ST="L"): Lch Deglitcher signal 2DAC(ST="H"): L/Rch Deglitcher signal
2	X0	O	Clock output
3	X1	I	Clock input
4	VDD2	I	Power supply (connected to +5V)
5	BCI	I	Bit clock input (input data)
6	SDSY	I	R/L signal
7	SDI	I	Data input
8	VDD1	I	Power supply (connected to +5V)
9	DLO	O	1DAC(ST="L"): L/Rch data output terminal 2DAC(ST="H"): Lch data output terminal
10	RDO	O	Rch data output (not connected)
11	WCO	O	Output data word clock
12	BCO	O	Bit clock output (output data)
13	VSS	I	GND terminal
14	ST	I	1DAC/2DAC selector terminal
15	FEN	I	System clock selector terminal
16	SHR	O	1DAC(SP="L"): Rch deglitch signal

# RESISTORS AND CAPACITORS

**Notes :** \* Important safety notice :  
 Components identified by  $\Delta$  mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.  
 \* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)  
 Parts without these indications can be used for all areas.

### Numbering System For Resistors

Example:

ERD	25	F	J	102
Type	Wattage (1/4W)	Shape	Tolerance	Value (1K $\Omega$ )
ERX	2	AN	J	471
Type	Wattage (2W)	Shape	Tolerance	Value (470 $\Omega$ )

### Numbering System For Capacitors

Example:

ECKD	1H	102	Z	F
Type	Voltage (50V)	Value (0.001 $\mu$ F)	Tolerance	Unique
ECEA	50	M		330
Type	Voltage (50V)	Characteristics		Value (33 $\mu$ F)

- Capacity values are in microfarads ( $\mu$ F) unless specified otherwise, P=Pico-farads (pF) F=Farads (F).
- Resistance values are in ohms ( $\Omega$ ), unless specified otherwise, 1K=1,000 $\Omega$ , 1M=1,000k $\Omega$

Resistor Type	Wattage	Tolerance
ERD : Carbon	10 : 1/8W 12 : 1/2W	J : $\pm$ 5%
ERG : Metal Oxide	14 : 1/4W 25 : 1/4W	F : $\pm$ 1%
ERQ : Fuse Type Metal	1A : 1W 18 : 1/8W	G : $\pm$ 2%
ERX : Metal Film	S2 : 1/4W S1 : 1/2W	J : $\pm$ 5%
ERD L : Carbon (chip)	2F : 1/4W 50 : 1/2W	K : $\pm$ 10%
ERO K : Metal Film (chip)	2A : 2W 3A : 3W	M : $\pm$ 20%
ERC : Solid	6G : 1/10W 6G : 1/8W	
ERF : Incombustible Box-Shaped		
ERM : Wire-Wound		
RRJ : Chip Resistor		
ERJ : Chip Resistor		

Capacitor Type	Voltage	Tolerance
ECE : Electrolytic	0J : 6.3V 1A : 10V	K : $\pm$ 10%
ECCD : Ceramic	1C : 16V 1E : 25V	M : $\pm$ 20%
ECKD : Ceramic Capacitor	1H : 50V 1V : 35V	Z : +80 % -20
ECQM : Polyester	50 : 50V 05 : 50V	J : $\pm$ 5%
ECQP : Polypropylene	2H : 500V 2A : 100V	G : $\pm$ 2%
ECG : Ceramic	1 : 100V 1J : 63V	F : $\pm$ 1%
ECEA N : Non Polar Electrolytic	KC : 400V AC	C : $\pm$ 0.25pF
QCU : Ceramic (Chip Type)	KC : 125V AC	D : $\pm$ 0.5pF
ECUX : Ceramic (Chip Type)	(UL)	
ECF : Semiconductor		
EECW : Liquid electrolyte double layer capacitor		

Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.
RESISTORS(VALUE,WATTAGE)								
R101	ERDS2T J471	470 1/4	R217	ERDS2T J472	4.7K 1/4	R315	ERDS2T J223	22K 1/4
R102	ERDS2T J471	470 1/4	R218	ERDS2T J472	4.7K 1/4	R316	ERDS2T J822	8.2K 1/4
R105	ERDS2T J224	220K 1/4	R221	ERDS2T J102	1K 1/4	R317	ERDS2T J562	5.6K 1/4
(EG)			R222	ERDS2T J102	1K 1/4	R318	ERDS2T J123	12K 1/4
R106	ERDS2T J224	220K 1/4	R223	ERDS2T J821	820 1/4	R320	ERDS2T J224	220K 1/4
(EG)			R224	ERDS2T J821	820 1/4	R321	ERDS2T J332	3.3K 1/4
R107	ERDS2T J331	330 1/4	R227	ERDS2T J102	1K 1/4	R322	ERDS2T J332	3.3K 1/4
R108	ERDS2T J331	330 1/4	R228	ERDS2T J102	1K 1/4	R324	ERDS2T J332	3.3K 1/4
R109	ERDS2T J473	47K 1/4	R229	ERDS2T J392	3.9K 1/4	R325	ERDS2T J392	3.9K 1/4
(E, E5, EB, G)			R230	ERDS2T J392	3.9K 1/4	R326	ERDS2T J392	3.9K 1/4
(GN)			R231	ERDS2T J332	3.3K 1/4	R327	ERDS2T J104	100K 1/4
R109	ERDS2T J563	56K 1/4	R232	ERDS2T J332	3.3K 1/4	R328	ERDS2T J104	100K 1/4
(EG)			R234	ERDS2T J122	1.2K 1/4	R329	ERDS2T J122	1.2K 1/4
R110	ERDS2T J473	47K 1/4	R235	ERDS2T J223	22K 1/4	R331	ERDS2T J105	1M 1/4
(E, E5, EB, G)			R236	ERDS2T J223	22K 1/4	R332	ERDS2T J334	330K 1/4
(GN)			R237	ERDS2T J223	22K 1/4	R351	ERDS2T J103	10K 1/4
R110	ERDS2T J563	56K 1/4	R238	ERDS2T J152	1.5K 1/4	R352	ERDS2T J103	10K 1/4
(EG)			R239	ERDS2T J152	1.5K 1/4	R353	ERDS2T J103	10K 1/4
R111	ERDS2T J331	330 1/4	R251	ERDS2T J102	1K 1/4	R354	ERDS2T J103	10K 1/4
R112	ERDS2T J331	330 1/4	R252	ERDS2T J103	10K 1/4	R355	ERDS2T J122	1.2K 1/4
R113	ERDS2T J680	68 1/4	R253	ERDS2T J103	10K 1/4	R356	ERDS2T J122	1.2K 1/4
R114	ERDS2T J680	68 1/4	R254	ERDS2T J103	10K 1/4	R357	ERDS2T J392	3.9K 1/4
R115	ERDS2T J184	180K 1/4	R257	ERDS2T J224	220K 1/4	R358	ERDS2T J392	3.9K 1/4
R116	ERDS2T J184	180K 1/4	R258	ERDS2T J224	220K 1/4	R359	ERDS2T J103	10K 1/4
R117	ERDS2T J123	12K 1/4	R259	ERDS2T J104	100K 1/4	R360	ERDS2T J103	10K 1/4
R118	ERDS2T J123	12K 1/4	R260	ERDS2T J104	100K 1/4	R361	ERDS2T J273	27K 1/4
R119	ERDS2T J104	100K 1/4	R263	ERDS2T J331	330 1/4	R362	ERDS2T J273	27K 1/4
R120	ERDS2T J104	100K 1/4	R264	ERDS2T J331	330 1/4	R363	ERDS2T J103	10K 1/4
R201	ERDS2T J102	1K 1/4	R265	ERDS2T J224	220K 1/4	R364	ERDS2T J103	10K 1/4
R202	ERDS2T J102	1K 1/4	R266	ERDS2T J224	220K 1/4	R365	ERDS2T J122	1.2K 1/4
R203	ERDS2T J822	8.2K 1/4	R301	ERDS2T J223	22K 1/4	R401	ERDS2T J223	22K 1/4
R204	ERDS2T J822	8.2K 1/4	R302	ERDS2T J223	22K 1/4	R402	ERDS2T J223	22K 1/4
R205	ERDS2T J102	1K 1/4	R303	ERDS2T J223	22K 1/4	R405	ERDS2T J563	56K 1/4
R206	ERDS2T J102	1K 1/4	R304	ERDS2T J223	22K 1/4	R406	ERDS2T J563	56K 1/4
R207	ERDS2T J102	1K 1/4	R307	ERDS2T J332	3.3K 1/4	R409	ERDS2T J333	33K 1/4
R208	ERDS2T J102	1K 1/4	R308	ERDS2T J332	3.3K 1/4	R410	ERDS2T J333	33K 1/4
R213	ERDS2T J471	470 1/4	R309	ERDS2T J223	22K 1/4	R415	ERDS2T J821	820 1/4
R214	ERDS2T J471	470 1/4	R310	ERDS2T J393	39K 1/4	R416	ERDS2T J821	820 1/4
R215	ERDS2T J182	1.8K 1/4	R311	ERDS2T J223	22K 1/4	R417	ERDS2T J391	390 1/4
R216	ERDS2T J182	1.8K 1/4	R312	ERDS2T J393	39K 1/4	R418	ERDS2T J391	390 1/4
			R313	ERDS2T J223	22K 1/4	R419	ERDS2T J273	27K 1/4
			R314	ERDS2T J223	22K 1/4	R420	ERDS2T J273	27K 1/4



Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.
R423	ERDS2T J153	15K 1/4	R523	ERDS2T J223	22K 1/4	R812	ERDS2T J103	10K 1/4
R424	ERDS2T J153	15K 1/4	R524	ERDS2T J223	22K 1/4	R813	ERDS2T J104	100K 1/4
R425	ERDS2T J152	1.5K 1/4	R525	ERDS2T J103	10K 1/4	R814	ERDS2T J223	22K 1/4
R426	ERDS2T J152	1.5K 1/4	R526	△ ERDS1F J331	330 1/2	R816	ERDS2T J562	5.6K 1/4
R427	ERDS2T J152	1.5K 1/4	R527	ERDS2T J153	15K 1/4	R817	ERDS2T J564	560K 1/4
R428	ERDS2T J152	1.5K 1/4	R528	ERDS2T J103	10K 1/4	R818	ERDS2T J564	560K 1/4
R429	ERDS2T J182	1.8K 1/4	R595	ERDS2T J223	22K 1/4	R819	ERDS2T J184	180K 1/4
R430	ERDS2T J182	1.8K 1/4	R596	ERDS2T J223	22K 1/4	R820	ERDS2T J184	180K 1/4
R431	ERDS2T J102	1K 1/4	R601	ERDS2T J223	22K 1/4	R821	ERDS2T J394	390K 1/4
R432	ERDS2T J102	1K 1/4	R602	ERDS2T J103	10K 1/4	R822	ERDS2T J394	390K 1/4
R434	ERDS2T J105	1M 1/4	R603	ERDS2T J103	10K 1/4	R823	ERDS2T J102	1K 1/4
R435	ERDS2T J334	330K 1/4	R610	ERDS2T J102	1K 1/4	R824	ERDS2T J102	1K 1/4
R438	ERDS2T J105	1M 1/4	R611	ERDS2T J102	1K 1/4	R825	ERDS2T J475T	
R439	ERDS2T J103	10K 1/4	R612	ERDS2T J102	1K 1/4	R826	ERDS2T J475T	
R442	ERDS2T J272	2.7K 1/4	R613	ERDS2T J102	1K 1/4	R827	ERDS2T J272	2.7K 1/4
R443	ERDS2T J102	1K 1/4	R614	ERDS2T J102	1K 1/4	R828	ERDS2T J272	2.7K 1/4
R444	ERDS2T J102	1K 1/4	R615	ERDS2T J102	1K 1/4	R829	ERDS2T J222	2.2K 1/4
R451	ERDS2T J224	220K 1/4	R616	ERDS2T J102	1K 1/4	R830	ERDS2T J222	2.2K 1/4
R452	ERDS2T J224	220K 1/4	R617	ERDS2T J102	1K 1/4	R831	ERDS2T J102	1K 1/4
R453	ERDS2T J474	470K 1/4	R618	ERDS2T J822	8.2K 1/4	R832	ERDS2T J102	1K 1/4
R454	ERDS2T J474	470K 1/4	R619	ERDS2T J272	2.7K 1/4	R833	ERDS2T J474	470K 1/4
R455	ERDS2T J102	1K 1/4	R620	ERDS2T J122	1.2K 1/4	R834	ERDS2T J474	470K 1/4
R456	ERDS2T J102	1K 1/4	R621	ERDS2T J272	2.7K 1/4	R835	ERDS2T J473	47K 1/4
R457	ERDS2T J822	8.2K 1/4	R622	ERDS2T J332	3.3K 1/4	R836	ERDS2T J473	47K 1/4
R458	ERDS2T J822	8.2K 1/4	R623	ERDS2T J223	22K 1/4	R837	ERDS2T J102	1K 1/4
R461	ERDS2T J223	22K 1/4	R624	ERDS2T J223	22K 1/4	R838	ERDS2T J102	1K 1/4
R462	ERDS2T J223	22K 1/4	R625	ERDS2T J104	100K 1/4	R839	ERDS2T J102	1K 1/4
R463	ERDS2T J392	3.9K 1/4	R626	ERDS2T J105	1M 1/4	R840	ERDS2T J102	1K 1/4
R464	ERDS2T J392	3.9K 1/4	R627	ERDS2T J102	1K 1/4	R841	ERDS2T J822	8.2K 1/4
R465	ERDS2T J333	33K 1/4	R628	ERDS2T J104	100K 1/4	R842	ERDS2T J822	8.2K 1/4
R466	ERDS2T J333	33K 1/4	R631	ERDS2T J102	1K 1/4	R843	ERDS2T J474	470K 1/4
R467	ERDS2T J182	1.8K 1/4	R632	ERDS2T J102	1K 1/4	R844	ERDS2T J272	2.7K 1/4
R468	ERDS2T J182	1.8K 1/4	R633	ERDS2T J153	15K 1/4	R845	ERDS2T J104	100K 1/4
R469	ERDS2T J821	820 1/4	R634	ERDS2T J153	15K 1/4	R846	ERDS2T J332	3.3K 1/4
R470	ERDS2T J821	820 1/4	R635	ERDS2T J473	47K 1/4	R847	ERDS2T J224	220K 1/4
R471	ERDS2T J152	1.5K 1/4	R636	ERDS2T J473	47K 1/4	R848	ERDS2T J103	10K 1/4
R472	ERDS2T J152	1.5K 1/4	R637	ERDS2T J330	33 1/4	R849	ERDS2T J272	2.7K 1/4
R473	ERDS2T J152	1.5K 1/4	R638	ERDS2T J101	100 1/4	R850	ERDS2T J103	10K 1/4
R474	ERDS2T J152	1.5K 1/4	R639	ERDS2T J101	100 1/4	R851	△ ERDS1F J331	330 1/2
R475	ERDS2T J102	1K 1/4	R640	ERDS2T J105	1M 1/4	R852	△ ERDS1F J331	330 1/2
R476	ERDS2T J102	1K 1/4	R641	ERDS2T J220	22 1/4	R853	△ ERDS1F J331	330 1/2
R478	ERDS2T J272	2.7K 1/4	R645	ERDS2T J102	1K 1/4	CAPACITORS(VALUE,VOLTAGE)		
R501	ERDS2T J222	2.2K 1/4	R646	ERDS2T J102	1K 1/4	C101	RCBC1H180JLY	18P 50
R502	ERDS2T J182	1.8K 1/4	R651	ERDS2T J221	220 1/4	(EG)		
(G)			R652	ERDS2T J221	220 1/4	C102	RCBC1H180JLY	18P 50
R502	ERDS2T J222	2.2K 1/4	R653	ERDS2T J221	220 1/4	(EG)		
(E, E5, EB, EG)			R654	ERDS2T J121	120 1/4	C103	RCBC1H151KBY	150P 50
(GN)			R655	ERDS2T J121	120 1/4	(EG)		
R503	ERDS2T J563	56K 1/4	R656	ERDS2T J221	220 1/4	C104	RCBC1H151KBY	150P 50
R504	ERDS2T J563	56K 1/4	R657	ERDS2T J221	220 1/4	(EG)		
R505	ERDS2T J182	1.8K 1/4	R658	ERDS2T J471	470 1/4	C105	ECEA1HPS3R3	3.3 50
(E, E5, EB, EG)			R659	ERDS2T J121	120 1/4	C106	ECEA1HPS3R3	3.3 50
(G)			R660	ERDS2T J121	120 1/4	C107	RCBC1H101KBY	100P 50
R505	ERDS2T J222	2.2K 1/4	R701	△ ERDS1F J2R2	2.2 1/2	C108	RCBC1H101KBY	100P 50
(GN)			R702	△ ERD25F J3R3	3.3 1/4	C109	ECBT1H102KB5	0.001 50
R506	ERDS2T J182	1.8K 1/4	R703	ERDS2T J682	6.8K 1/4	C110	ECBT1H102KB5	0.001 50
(E, E5, EB, EG)			R704	ERDS2T J822	8.2K 1/4	C111	ECEA0JPS330	33 6.3
(GN)			R705	ERDS2T J333	33K 1/4	C112	ECEA0JPS330	33 6.3
R506	ERDS2T J222	2.2K 1/4	R706	△ ERDS1F J100	10 1/2	C115	ECFTD223KXL	0.022 25
(G)			R707	ERDS2T J222	2.2K 1/4	C116	ECFTD223KXL	0.022 25
R507	ERDS2T J563	56K 1/4	R708	ERDS2T J682	6.8K 1/4	C117	ECFTD682KXL	0.0068 25
R508	ERDS2T J563	56K 1/4	R710	△ ERDS1F J331	330 1/2	C118	ECFTD682KXL	0.0068 25
R509	△ ERDS1F J100	10 1/2	R711	ERDS2T J272	2.7K 1/4	C119	ECEA1HPS3R3	3.3 50
R510	△ ERDS1F J100	10 1/2	R712	ERDS2T J684	680K 1/4	C120	ECEA1HPS3R3	3.3 50
R511	△ ERDS1F J100	10 1/2	R713	ERDS2T J154	150K 1/4	C121	ECFTD103KXL	0.01 25
R512	△ ERDS1F J100	10 1/2	R800	ERDS2T J271	270 1/4	C122	ECFTD103KXL	0.01 25
R513	ERDS2T J182	1.8K 1/4	R801	ERDS2T J102	1K 1/4	C123	ECKD1H473ZF	0.047 50
(GN)			R802	ERDS2T J103	10K 1/4	C124	ECFTD103KXL	0.01 25
R513	ERDS2T J222	2.2K 1/4	R803	ERDS2T J101	100 1/4	(EG)		
(E, E5, EB, EG)			R804	ERDS2T J101	100 1/4	C201	ECEA1HPS3R3	3.3 50
(G)			R805	ERDS2T J821	820 1/4	C202	ECEA1HPS3R3	3.3 50
R514	ERDS2T J222	2.2K 1/4	R806	ERDS2T J151	150 1/4	C203	ECEA1HPS3R3	3.3 50
R515	ERDS2T J473	47K 1/4	R807	ERDS2T J102	1K 1/4	C204	ECEA1HPS3R3	3.3 50
R517	△ ERG2ANJP331S	330 2	R808	ERDS2T J105	1M 1/4	C205	ECEA1HPS3R3	3.3 50
R518	△ ERG2ANJP331S	330 2	R809	ERDS2T J223	22K 1/4	C206	ECEA1HPS3R3	3.3 50
R519	ERDS2T J223	22K 1/4	R810	ERDS2T J471	470 1/4	C219	ECKD1H473ZF	0.047 50
R520	△ ERG3ANJ102	1K 3	R811	ERDS2T J101	100 1/4			



Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.
C220	ECKD1H473ZF	0.047 50	C374	RCBS1H820KBY	82P 50	C561	ECKD1H102KB	1000P 50
C222	ECEA1CK220	22 16	(EG)			(EG)		
C223	ECEA1CK220	22 16	C401	ECEA1EK3R3B	3.3 25	C562	ECKD1H102KB	1000P 50
C224	ECKD1H223PF	0.022 50	C402	ECEA1EK3R3B	3.3 25	(EG)		
C225	ECKD1H223PF	0.022 50	C409	RCBC1H101KBY	100P 50	C563	ECKD1H223PF	0.022 50
C226	ECKD1H473ZF	0.047 50	C410	RCBC1H101KBY	100P 50	(EG)		
C227	ECQM1H104JZP	0.1 50	C411	RCBS1H100JLY	10P 50	C564	ECKD1H223PF	0.022 50
C251	RCBC1H101KBY	100P 50	C412	RCBS1H100JLY	10P 50	(EG)		
(EG)			C413	ECEA1HK2R2B	2.2 50	C565	ECKD1H102KB	1000P 50
C252	RCBC1H101KBY	100P 50	C414	ECEA1HK2R2B	2.2 50	(EG)		
(EG)			C419	ECFTD473KXL	0.047 25	C566	ECKD1H102KB	1000P 50
C253	RCBC1H101KBY	100P 50	C420	ECFTD473KXL	0.047 25	(EG)		
(EG)			C421	ECEA1HK2R2B	2.2 50	C567	ECKD1H223PF	0.022 50
C254	RCBC1H101KBY	100P 50	C422	ECEA1HK2R2B	2.2 50	(EG)		
(EG)			C423	ECEA1HPS3R3	3.3 50	C568	ECKD1H223PF	0.022 50
C255	RCBC1H101KBY	100P 50	C424	ECEA1HPS3R3	3.3 50	(EG)		
(EG)			C425	ECEA1HPS3R3	3.3 50	C597	ECKD1H221KB	220P 50
C256	RCBC1H101KBY	100P 50	C426	ECEA1HPS3R3	3.3 50	(EG)		
(EG)			C427	ECEA1HPS3R3	3.3 50	C598	ECKD1H221KB	220P 50
C257	RCBC1H101KBY	100P 50	C428	ECEA1HPS3R3	3.3 50	(EG)		
(EG)			C431	ECFTD683KXL	0.068 25	C600	ECEA1CKS100	10 16
C258	RCBC1H101KBY	100P 50	C432	ECEA1HK010	1 50	C601	ECEA0JS102	1000 6.3
(EG)			C451	RCBC1H101KBY	100P 50	C602	ECKD1H223PF	0.022 50
C261	RCBC1H101KBY	100P 50	C452	RCBC1H101KBY	100P 50	C603	ECEA1HK010	1 50
(EG)			C453	RCBC1H680JLY	68P 50	C604	ECFTD333KXL	0.033 25
C262	RCBC1H101KBY	100P 50	C454	RCBC1H680JLY	68P 50	C605	ECFTD683KXL	0.068 25
(EG)			C455	ECBT1H821KB5	820P 50	C606	ECEA1EK4R7	4.7 25
C263	RCBC1H101KBY	100P 50	C456	ECBT1H821KB5	820P 50	C607	ECEA1HK010	1 50
(EG)			C457	ECFTD123KXL	0.012 25	C608	ECBT1H102KB5	0.001 50
C264	RCBC1H101KBY	100P 50	C458	ECFTD123KXL	0.012 25	C609	ECBT1H102KB5	0.001 50
(EG)			C459	ECFTD683KXL	0.068 25	C610	ECEA1CKS100	10 16
C265	RCBC1H101KBY	100P 50	C460	ECFTD683KXL	0.068 25	C611	RCBC1H101KBY	100P 50
(EG)			C461	ECEA1HPS010	1 50	C612	RCBC1H101KBY	100P 50
C266	RCBC1H101KBY	100P 50	C462	ECEA1HPS010	1 50	C613	RCBS1H221KBY	220P 50
(EG)			C463	ECFTD472KXL	4700P 25	C614	RCBS1H221KBY	220P 50
C267	RCBC1H101KBY	100P 50	C464	ECFTD472KXL	4700P 25	C615	ECEA1VKA330	33 35
(EG)			C465	ECFTD223KXL	0.022 25	C616	ECEA1HK2R2B	2.2 50
C268	RCBC1H101KBY	100P 50	C466	ECFTD223KXL	0.022 25	C617	ECEA1HK2R2B	2.2 50
(EG)			C467	ECEA1HPS3R3	3.3 50	C618	ECKD1H223PF	0.022 50
C269	RCBC1H101KBY	100P 50	C468	ECEA1HPS3R3	3.3 50	C619	ECFTD103KXL	0.01 25
(EG)			C469	ECFTD103KXL	0.01 25	C620	ECKF1H103ZF	0.01 50
C270	RCBC1H101KBY	100P 50	C470	ECFTD103KXL	0.01 25	C621	ECKF1H103ZF	0.01 50
(EG)			C471	ECEA1CK470	47 16	C622	ECKF1H103ZF	0.01 50
C271	RCBC1H101KBY	100P 50	C501	ECEA1HPS3R3	3.3 50	C623	ECKF1H103ZF	0.01 50
(EG)			C502	ECEA1HPS3R3	3.3 50	C624	ECKF1H103ZF	0.01 50
C272	RCBC1H101KBY	100P 50	C503	ECBT1H821KB5	820P 50	C625	ECKF1H103ZF	0.01 50
(EG)			C504	ECBT1H821KB5	820P 50	C626	ECKD1H473ZF	0.047 50
C307	RCBC1H680JLY	68P 50	C505	ECEA1CPS220	22 16	C627	ECKF1H103ZF	0.01 50
C308	ECFTD683KXL	0.068 25	C506	ECEA1CPS220	22 16	C628	ECKF1H103ZF	0.01 50
C309	ECEA1EK3R3B	3.3 25	C507	RCBS1H68RKL	6.8P 50	C629	ECKD1H102KB	1000P 50
C310	RCBS1H221KBY	220P 50	C508	RCBS1H68RKL	6.8P 50	C630	ECKF1H103ZF	0.01 50
C311	ECEA1EK3R3B	3.3 25	C509	RCBC1H151KBY	150P 50	C631	ECKF1H103ZF	0.01 50
C313	RCBS1H820KBY	82P 50	(E, E5, EB, G)			C632	ECKF1H103ZF	0.01 50
C314	RCBS1H820KBY	82P 50	(GN)			C697	ECQV1H474JZ3	0.47 50
C315	ECEA1HPS3R3	3.3 50	C509	RCBS1H271KBY	270P 50	C698	RCBS1H221KBY	220P 50
C316	ECEA1HPS3R3	3.3 50	(EG)			C699	RCBS1H221KBY	220P 50
C318	ECKD1H223PF	0.022 50	C510	RCBC1H151KBY	150P 50	C700	ECKDKC103PF2	0.01 125
C351	ECBT1E103ZF	0.01 25	(E, E5, EB, G)			C701	ECEA1JU682U	6800 63
C352	ECBT1E103ZF	0.01 25	(GN)			C702	ECEA1JU682U	6800 63
C353	RCBS1H330JLY	33P 50	C510	RCBS1H271KBY	270P 50	C703	ECFTD103KXL	0.01 25
C354	RCBS1H330JLY	33P 50	(EG)			C704	ECFTD103KXL	0.01 25
C355	ECEA1HPS3R3	3.3 50	C511	ECFTD473KXL	0.047 25	C705	ECEA1CU470	47 16
C356	ECEA1HPS3R3	3.3 50	C512	ECFTD473KXL	0.047 25	C706	ECEA1CU470	47 16
C357	ECEA1HPS3R3	3.3 50	C513	ECEA0JS331	330 6.3	C707	ECEA1CK220	22 16
C358	ECEA1HPS3R3	3.3 50	C514	ECEA1HKR22	0.22 50	C708	ECEA1CK220	22 16
C359	RCBS1H330JLY	33P 50	C515	ECEA0JK330	33 6.3	C709	ECQE2104KS	0.1 250
C360	RCBS1H330JLY	33P 50	C516	ECFTD103KXL	0.01 25	C710	ECEA1HK4R7	4.7 50
C361	ECEA1HPS3R3	3.3 50	(EG)			C711	ECEA1VK100B	10 35
C362	ECEA1HPS3R3	3.3 50	C517	ECEA2AN2R2SB	2.2 100	C712	ECEA1VK100B	10 35
C363	ECEA1HPS3R3	3.3 50	(EG)			C714	ECEA1HK010	1 50
C364	ECEA1HPS3R3	3.3 50	C518	ECEA1CKS100	10 16	C715	ECFTD473KXL	0.047 25
C365	ECEA1CK220	22 16	C519	ECEA1CK470	47 16	(EG)		
C367	ECEA1CK220	22 16	C520	ECEA1CK101	100 16	C716	ECFTD103KXL	0.01 25
C369	ECEA1CKS100	10 16	C521	ECFTD473KXL	0.047 25	(EG)		
C370	ECEA1CKS100	10 16	C522	ECFTD473KXL	0.047 25	C801	RCBS1H271KBY	270P 50
C373	RCBS1H820KBY	82P 50	C523	ECKD1H102KB	1000P 50	C802	RCBS1H271KBY	270P 50
(EG)			C524	ECKD1H102KB	1000P 50	C803	ECEA0JU101	100 6.3

Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.
C804	ECEA0JK101	100 6.3	C813	ECEA1EK4R7	4.7 25	C823	ECEA1CKN100B	10 16
C805	ECEA0JK101	100 6.3	C814	ECFD1H104ZF	0.1 50	C824	ECEA1EK4R7	4.7 25
C806	ECEA0JK101	100 6.3	C815	ECEA0JK101	100 6.3	C825	ECEA1EKN4R7	
C807	ECFD1H104ZF	0.1 50	C816	RCBS1H6R8KLY	6.8P 50	C826	ECEA1EKN4R7	
C808	ECEA0JK101	100 6.3	C817	ECFD1H104ZF	0.1 50	C827	ECBT1H102KB5	0.001 50
C809	ECFD1H104ZF	0.1 50	C819	ECEA0JK470	47 6.3	C828	ECBT1H102KB5	0.001 50
C810	ECQM1H103JZ	0.01 50	C820	ECEA0JK101	100 6.3	C829	ECBT1E223ZF	0.022 25
C811	RCBS1H100JLY	10P 50	C821	ECEA0JK470	47 6.3	C830	ECBT1E223ZF	0.022 25
C812	RCBS1H100JLY	10P 50	C822	ECEA0JK470	47 6.3	C831	ECFD1H104ZF	0.1 50

## REPLACEMENT PARTS LIST

### Notes : \* Important safety notice :

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

\* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)

Parts without these indications can be used for all areas.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
<b>INTEGRATED CIRCUITS</b>					
IC101	AN6558F	I.C. PHONO EQ AMP	Q409	DTA114ESTP	TRANSISTOR
IC200	TC4066BF	I.C. CD INPUT SELECTOR	Q501	2SA992E	TRANSISTOR
IC201	TC9164N	I.C. INPUT SEL.	Q502	2SC3311A-Q	TRANSISTOR
IC301	M5238P	I.C. PHASE SHIFT	Q503	2SA1309AQS	TRANSISTOR
IC302	AN6554F	I.C. MIXING AMP	Q601	UN4111	TRANSISTOR
IC303	AN6558F	I.C. BUFFER AMP	Q602	UN4111	TRANSISTOR
IC304	AN6557F	I.C. BUFFER AMP	Q603	UN4211	TRANSISTOR
IC305	AN6557F	I.C. MIXING AMP	Q604	2SC3311A-Q	TRANSISTOR
IC306	M51131L-702	I.C. ATTENUATOR	Q611	UN4211	TRANSISTOR
IC307	M51131L-702	I.C. ATTENUATOR	Q612	UN4211	TRANSISTOR
IC402	AN6554F	I.C. PRE AMP	Q613	UN4211	TRANSISTOR
IC403	AN6558F	I.C. TONE AMP	Q614	UN4211	TRANSISTOR
IC501	SV13204	I.C. POWER AMP	Q615	UN4211	TRANSISTOR
IC601	M50754-411SP	I.C. MICRO COMPUTER	Q616	UN4211	TRANSISTOR
IC602	MN4030B	I.C. LOGIC	Q617	UN4211	TRANSISTOR
IC603	MN4013B	I.C. LOGIC	Q618	UN4111	TRANSISTOR
IC604	AN6552F	I.C. BUFFER AMP	Q619	UN4111	TRANSISTOR
IC701	AN78M05R	I.C. REGULATOR	Q621	2SC3311A-Q	TRANSISTOR
IC801	SV10RX172	I.C. OPTICAL REC.	Q622	UN4211	TRANSISTOR
IC802	SV10RX172	I.C. OPTICAL REC.	Q701	2SD1265-P	TRANSISTOR
IC803	TC74HC004AF	I.C. INVERTER	Q702	2SB941PQR	TRANSISTOR
IC804	TC74HC4053AF	I.C. DIGITAL INPUT	Q703	UN4211	TRANSISTOR
IC805	YM3623B	I.C. DIGITAL SIGNAL	Q704	2SB621A-R	TRANSISTOR
IC806	YM3404B	I.C. DIGITAL FILTER	Q705	2SD1265-P	TRANSISTOR
IC807	PCM56P-L	I.C. D/A CONVERTER	Q801	UN4211	TRANSISTOR
IC808	PCM56P-L	I.C. D/A CONVERTER	Q802	2SB1030Q	TRANSISTOR
IC809	TC74HC164AF	I.C. 8BIT SHIFT RESISTOR	Q803	2SC3311A-Q	TRANSISTOR
IC810	TC74HC164AF	I.C. 8BIT SHIFT RESISTOR	Q804	2SC3311A-Q	TRANSISTOR
IC811	TC74HC00AF	I.C. NAND GATE	Q805	2SD1450R	TRANSISTOR
IC812	MN6636S	I.C. DEGLITCH	Q806	2SD1450R	TRANSISTOR
IC813	LM833M63	I.C. BUFFER AMP	Q807	UN4111	TRANSISTOR
IC814	SV1BA4560F	I.C. BUFFER AMP	Q808	UN4111	TRANSISTOR
IC815	SV1H8DN2041B	I.C. LOW PASS FILTER	Q809	UN4211	TRANSISTOR
IC816	SV1H8DN2041B	I.C. LOW PASS FILTER	Q810	UN4211	TRANSISTOR
IC817	DN74LS145S	I.C. LED DRIVE	Q811	2SA1309A-R	TRANSISTOR
IC818	TC74HC123AF	I.C. MULTIVIBRATOR	Q812	2SA1309AQS	TRANSISTOR
<b>TRANSISTORS</b>			<b>DIODES</b>		
Q200	2SC3311A-Q	TRANSISTOR	D201	MA4051-M	DIODE
Q201	2SC3311A-Q	TRANSISTOR	D203	MA4082	DIODE
Q202	2SC3311A-Q	TRANSISTOR	D204	MA4082	DIODE
Q203	DTA114ESTP	TRANSISTOR	D403	MA165	DIODE
Q301	2SD1450R	TRANSISTOR	D405	MA165	DIODE
Q303	DTA114ESTP	TRANSISTOR	D502	MA4120	DIODE
Q401	2SD1450R	TRANSISTOR	D503	MA4120	DIODE
Q402	2SD1450R	TRANSISTOR	D505	MA167	DIODE
Q403	DTA114ESTP	TRANSISTOR	D506	MA167	DIODE
Q404	2SD1450R	TRANSISTOR	D507	MA165	DIODE
Q405	2SD1450R	TRANSISTOR	D511	MA167	DIODE
Q406	DTA114ESTP	TRANSISTOR	D512	MA167	DIODE
Q407	2SC3311A-Q	TRANSISTOR	D601	MA165	DIODE
Q408	2SC3311A-Q	TRANSISTOR	D602	MA165	DIODE
			D603	MA165	DIODE
			D605	MA165	DIODE

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D606	MA165	DIODE	COILS AND TRANSFORMERS		
D607	MA165	DIODE	L301	RLQZP100KT-Y	COIL
D608	MA700A	DIODE	L501	SLQY07G-40	CHOKE COIL
D609	MA700A	DIODE	L502	SLQY07G-40	CHOKE COIL
D610	MA700A	DIODE	L505	SLQY07G-40	CHOKE COIL
D611	MA165	DIODE	(EG)		
D612	MA165	DIODE	L506	SLQY07G-40	CHOKE COIL
D613	MA165	DIODE	(EG)		
D615	MA165	DIODE	L507	SLQY07G-40	CHOKE COIL
D616	MA165	DIODE	(EG)		
D617	MA165	DIODE	L508	SLQY07G-40	CHOKE COIL
D618	MA4082	DIODE	(EG)		
D619	MA165	DIODE	L601	RLQZP101KT-Y	COIL
D620	MA165	DIODE	L603	ELEXT330KA9	COIL
D621	MA165	DIODE	L604	ELEXT330KA9	COIL
D622	MA165	DIODE	L605	ELEPK1R2MA	COIL
D623	MA165	DIODE	L609	ELEXT330KA9	COIL
D624	MA165	DIODE	L610	RLQZP1R2KT-Y	CHOKE COIL
D625	MA165	DIODE	L801	RLQZP101KT-Y	COIL
D626	MA165	DIODE	L802	RLQZP101KT-Y	COIL
D627	MA165	DIODE	L803	ELEXT470KA9	COIL
D631	LN846RP-C	L.E.D	L804	ELEXT470KA9	COIL
D632	LN846RP-C	L.E.D	L805	ELEXT470KA9	COIL
D633	LN846RP-C	L.E.D	L806	RLQZP101KT-Y	COIL
D634	LN0202RP2	DIODE	T700 Δ	SLT5N484-W	POWER TRANSFORMER
D635	LN0202RP2	DIODE	(EB, GN)		
D636	LN846RP-C	L.E.D	T700 Δ	SLT5N485-W	POWER TRANSFORMER
D637	LN846RP-C	L.E.D	(E, E5, EG)		
D638	LN873RP-LS	DIODE	T700 Δ	SLT5N486-W	POWER TRANSFORMER
D641	MA165	DIODE	(G)		
D642	MA165	DIODE	COMPONENT COMBINATIONS		
D643	MA165	DIODE	Z603	EXBF5E103J	COMBINATION PART
D644	MA165	DIODE	Z604	EXBF8E103J	COMPONENT COMBINATION
D645	MA165	DIODE	Z801	EXCEMT103DC	CNM BINATION COM
D646	MA165	DIODE	Z802	EXCEMT103DC	CNM BINATION COM
D647	MA165	DIODE	Z803	EXCEMT103DC	CNM BINATION COM
D648	MA165	DIODE	DISPLAYS		
D649	MA165	DIODE	FL1	SADFV217	DISPLAY TUBE
D701	Δ SVDS3V40	DIODE	FUSES		
D702	Δ SVDS3V40	DIODE	F1 Δ	XBA2C16TB0	FUSE 250V, A1.6A
D703	Δ SVDS3V40	DIODE	(E, E5, EG)		
D704	Δ SVDS3V40	DIODE	F1 Δ	XBA2C31TB0	FUSE 250V, T3.15A
D705	MA4140-M	DIODE	(G)		
D706	MA4140-M	DIODE	F2 Δ	XBA2C16TB0	FUSE 250V, A1.6A
D707	MA29WA	DIODE	(EB, G, GN)		
D709	MA167	DIODE	F2 Δ	XBA2C20TB0	FUSE 250V, T2A
D710	MA167	DIODE	(E, E5, EG)		
D711	MA165	DIODE	SWITCHES		
D714	MA4300M	DIODE	S201	SSS153	SW, CD INPUT SELECTOR
D801	MA165	DIODE	S501	SSH1073	SW, SPEAKER
D802	MA165	DIODE	S601	EVQQB005R	SW, PHONO
D803	MA165	DIODE	S602	EVQQB005R	SW, TUNER
D804	MA165	DIODE	S603	EVQQB005R	SW, CD
D805	MA700	DIODE	S604	EVQQB005R	SW, TAPE 1
D806	MA165	DIODE	S605	EVQQB005R	SW, TAPE 2
D807	MA4051-M	DIODE	S606	EVQQB005R	SW, AUX
D808	MA4051-M	DIODE	S607	EVQQB005R	SW, DAT
D809	MA4051-M	DIODE	S608	EVQQB005R	SW, MUTING
D810	MA29WA	DIODE	S609	EVQQLY07K	SW, SURROUND
D811	MA165	DIODE	S610	EVQQLY07K	SW, S.BASS
D812	MA165	DIODE	S700	SSH1071	SW, POWER
D813	MA165	DIODE	S701	ESE37263	SW, VOLTAGE SELECTOR
D820	LNQ38417P1	DIODE	(G)		
D821	LNQ38417P1	DIODE	RELAYS		
D822	LNQ38417P1	DIODE	RL501	SSY134	RELAY
VARIABLE RESISTORS			OTHERS		
VR401	EWC2XAF20C15	V.R. BASS	X601	EF0FC4004A4	CERAMIC FILTER
VR402	EWC2XAF20C15	V.R. TREBLE	X801	SVQAT1923-S	CRYSTAL OSCILLATOR
VR403	EWHFDAF20G15	V.R. BALANCE			
VR601	EVQWX2F2045B	V.R., VOLUME ENCODER			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
CABINET AND CHASSIS					
1	SJS9231A	AC INLET COVER	44	SNE2129-1	SCREW
(E, E5, EB, EG)			47	SJF4818-1	TERMINAL BOARD, SP A
(G)			48	SJF4442-1	TERMINAL BOARD, SP B
1	SJS9234A	AC INLET COVER	49	SJJ141	M3 JACK
(GN)			50	SJJ71E	JACK, HEADPHONE
2	SGP7170-12C	REAR PANEL	51	SJS306	SOCKET(3P), TUNER
(E)			52	SJS804	SOCKET(8P), DECK
2	SGP7170-12D	REAR PANEL	53	SMX897	COVER(CAPACITOR)
(EG)			54	Δ SJS9231-1B	AC INLET
2	SGP7170-12H	REAR PANEL	(E, E5, EB, EG)		
(E5)			(G)		
2	SGP7170-13B	REAR PANEL	54	Δ SJS9234B	AC INLET
(EB)			(GN)		
2	SGP7170-14A	REAR PANEL	56	Δ SJT388	FUSE HOLDER
(GN)			58	XTW3*8T	SCREW
2	SGP7170-15A	REAR PANEL	59	SMN2056	BRACKET
(G)			60	SMN2043	ANGLE
3	SKL307	FOOT	61	SJF3062-13N	TERMINAL BOARD
4	SKU11650-3	BOTTOM BOARD	62	SMC6453	SHIELD PLATE
5	SBC666-1	BUTTON, POWER	63	SMC6441	SHIELD PLATE
6	SBC963B	BUTTON, SELECTOR	64	SHE233	FAN CASE
7	SBC1023	BUTTON, MUTING	65	SHE234	CAP
8	SBC1024-1A	BUTTON, DIGITAL	66	SHE232	FAN
9	SBC1025	BUTTON, BASS	67	MDN-4RB4MXA	MOTOR
10	SBC928	BUTTON, SPEAKER	68	SUS271	SPRING
11	SBN1224	KNOB, VOLUME	69	SGXUX950-KE2	FRONT GRILLE
12	RGW0016	KNOB, TONE	70	SJS50680WL	SOCKET(6P), J603, J604
13	SDL97	SMOKE PLATE	70	SJS51080WL	SOCKET(10P), J601B, J602
14	SDL98	SMOKE PLATE	72	SJT30543-V	CONNECTOR(5P), J700
15	SDL99	SMOKE PLATE	72	SJT30740LX-V	CONNECTOR(7P), J501
16	SDL100	SMOKE SLATE	74	SJF3062-22N	TERMINAL BOARD
18	SMC1297	SHIELD COVER	75	SJT30439MB	CONNECTOR (4P), J201B
19	SGXUX950-KE1	FRONT GRILLE	75	SJT30839MB	CONNECTOR(8P), J204B
20	SGX9036	ORNAMENT	75	SJT30939MB	CONNECTOR(9P), J202B
21	SHE187-2	HOLDER	75	SJT31239MB	CONNECTOR (12P), J206B
23	SJP9205-2Y	SHORTING PIN	76	SJT30647WL	CONNECTOR(6P), J603B, J604B
24	SMC1274	BRACKET	76	SJT31047WL	CONNECTOR(10P), J601B, J602B
25	SMN2078-2	BRACKET	77	SJT3213	CONNECTOR(2P), J207B
26	XWE3E13	WASHER	77	SJT3613	CONNECTOR(6P), J801D
27	SNE2123	SCREW	77	SJT3709	CONNECTOR(7P), J200B
28	SNE4021-1	NUT	81	Δ SJS9225	AC OUTLET
29	SUS832	SPRING	(E, E5, EG)		
30	RYP0064	FRONT PANEL ASS'Y	81	Δ SJS9232B	AC OUTLET
32	XTBS3*8JFZ1	SCREW	(G)		
33	XTB3*20J	SCREW	81	Δ SJS9332B	AC OUTLET
34	XTB3*6FFZ	SCREW	(EB)		
35	XTB3*8G	SCREW	82	SJS9330A	AC OUTLET COVER
36	XTB3*8J	SCREW	(G)		
38	XTB3*16J	SCREW	82	SJS9332A	AC OUTLET COVER
39	XTWS3*8T	SCREW	(EB)		
40	XYN3+C6FZ	SCREW	83	SMN2056-1	BRACKET
(G)			84	RSC0033	COVER
42	SKC2071K163	CABINET	85	RSC0034	COVER
			86	SGX7967	ORNAMENT
			88	SGX7977-1A	ORNAMENT

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
PACKING MATERIAL					
P1	RPG0103	PACKING CASE	A1	RQF0079	INSTRUCTION MANUAL
P2	RUB50RK05W	PROTECTION BAG	(EG)		
P3	SPS5182	PAD, FRONT	A1	RQF0081	INSTRUCTION MANUAL
P4	SPS5183	PAD, REAR	(GN)		
P5	SPS5184	PAD	A2	Δ RJA0004	POWER CORD
P6	XZB10X30A02	PROTECTION COVER	(G)		
ACCESSORIES					
A1	RQF0076	INSTRUCTION MANUAL	A2	Δ SFDA005E03	POWER CORD
(E, E5)			(E, E5, EG)		
A1	RQF0077	INSTRUCTION MANUAL	(GN)		
(EB)			A2	Δ SJA173	POWER CORD
A1	RQF0078	INSTRUCTION MANUAL	(EB)		
(G)			A3	Δ RJP120ZBS-H	AC PLUG ADAPTOR
			(G)		

■ EXPLODED VIEW

(Parts list on page 32)

