

Service Manual

Digital Integrated Amplifier

Amplifier

SU-X955

Color

(K)...Black Type



Area

Country Code	Area	Color
(E), (E5)	Continental Europe	(K)
(EB)	Great Britain	(K)
(EG)	F.R. Germany & Italy	(K)

SPECIFICATIONS

(DIN 45 500)

■ AMPLIFIER SECTION

DIN power output 1 kHz THD:1%	2×60 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	520 mV/330Ω
Load impedance	
A or B	8 Ω ~ 16 Ω
SURROUND	8 Ω ~ 16 Ω

■ GENERAL

Power consumption	370 W
Power supply	
For Great Britain	AC 50 Hz/60 Hz,240V
For others	AC 50 Hz/60 Hz,220V
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

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

■ CONTENTS

	Page		Page
BEFORE REPAIR	2	DESCRIPTION OF FL PANEL	11
PROTECTION CIRCUITRY	2	TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES	19
ACCESSORY	2	PRINTED CIRCUIT BOARDS	19~23
LOCATION OF CONTROLS	3	WIRING CONNECTION DIAGRAM	24
CONNECTIONS	4, 5	FUNCTIONS OF IC TERMINALS	25, 26
DISASSEMBLY INSTRUCTIONS	6~8	RESISTORS AND CAPACITORS	27~30
BLOCK DIAGRAM	9, 10	REPLACEMENT PARTS LIST	30~32
SCHEMATIC DIAGRAM	11~18	EXPLODED VIEW	33, 34

■ 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 220V/240V.

Power supply voltage	AC220V	AC240V
Consumed current 50Hz	122 ~ 365mA	112 ~ 336mA
Consumed current 60Hz	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.

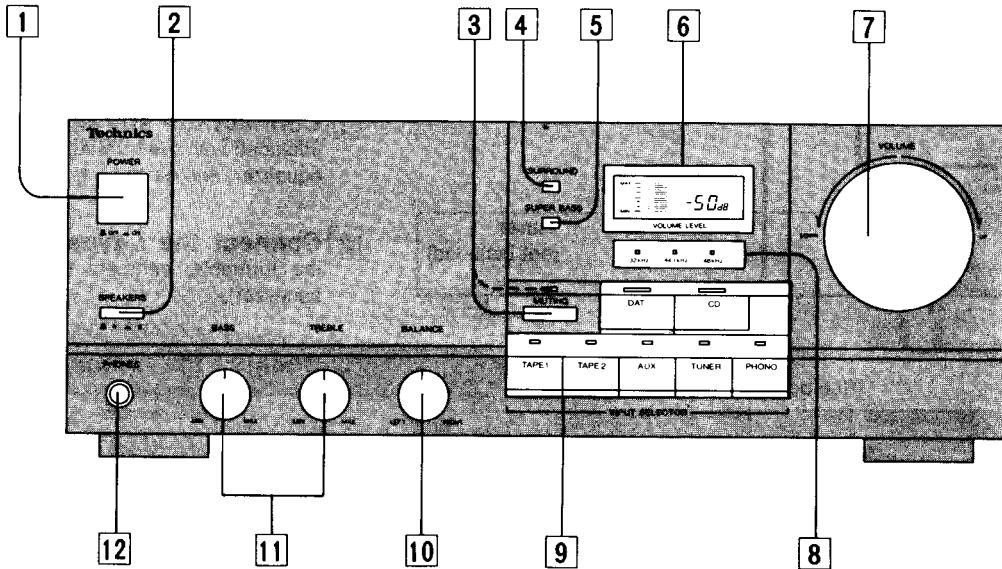
■ ACCESSORY

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

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

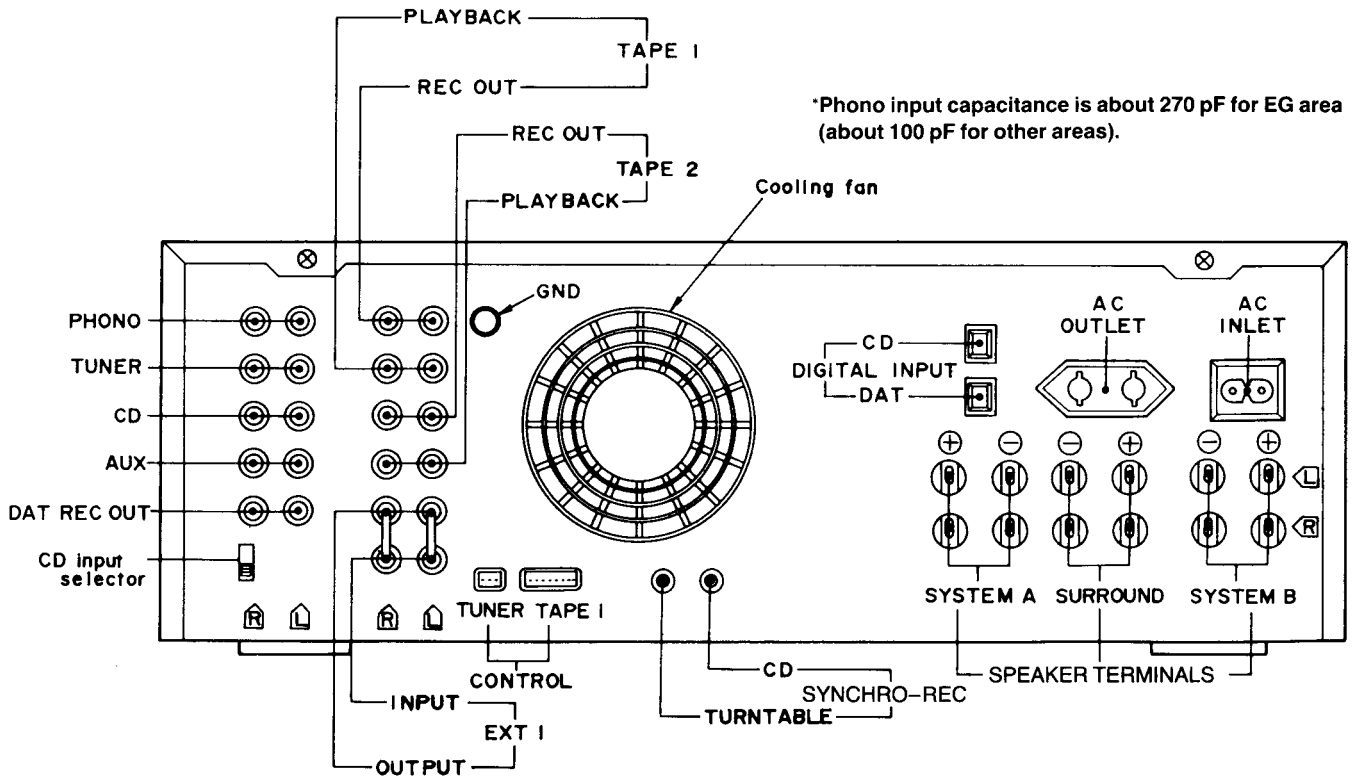
9 Input selectors/indicators (INPUT SELECTOR)

10 Balance control (BALANCE)

11 Tone controls (BASS/TREBLE)

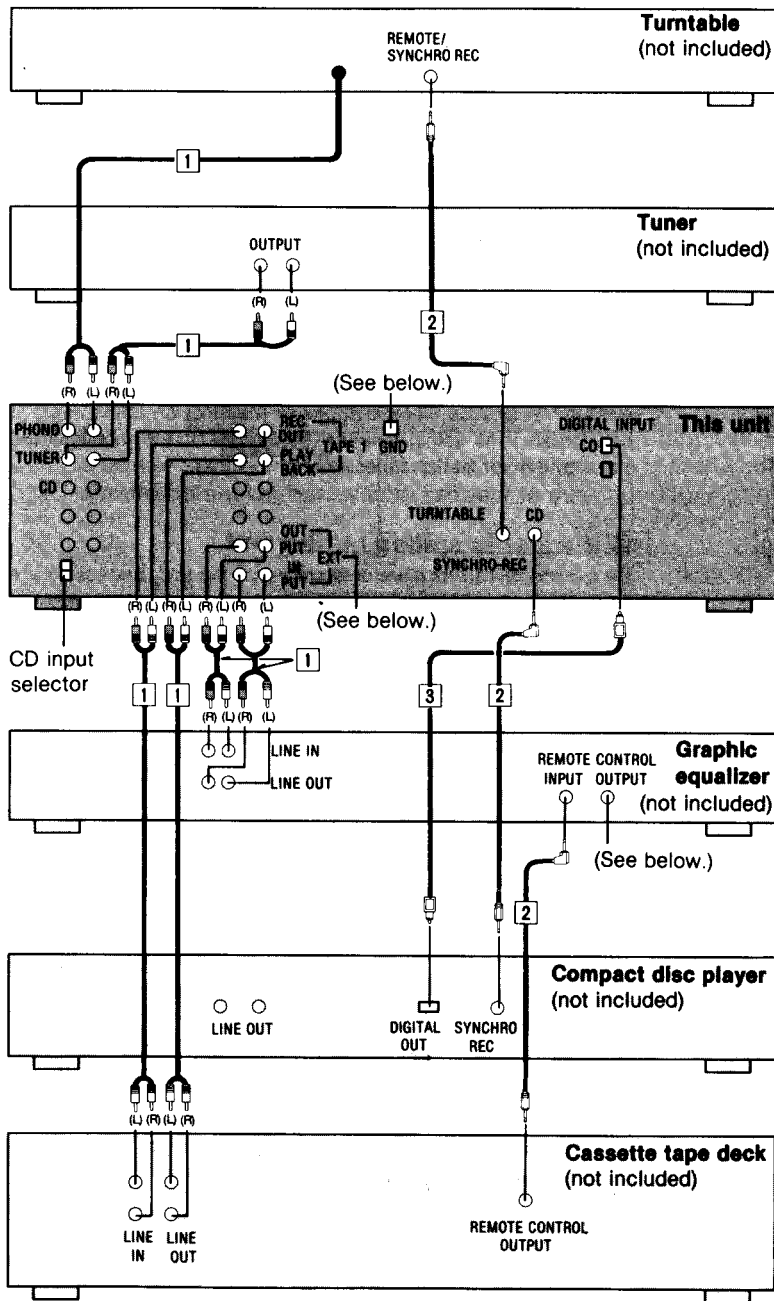
12 Headphones jack (PHONES)

● Rear panel



*Phono input capacitance is about 270 pF for EG area (about 100 pF for other areas).

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:

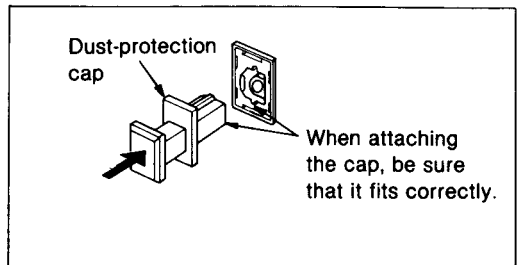
1. Be sure the power switch of this unit is switched OFF before changing the setting of this selector. (Interference noise may be emitted if the power switch is ON.)
2. The setting of this selector must be made correctly; if not, no sound will be emitted when the "CD" input selector of the front panel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

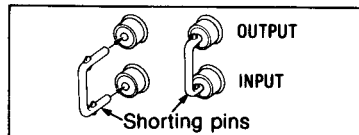


"GND" terminal of this unit

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

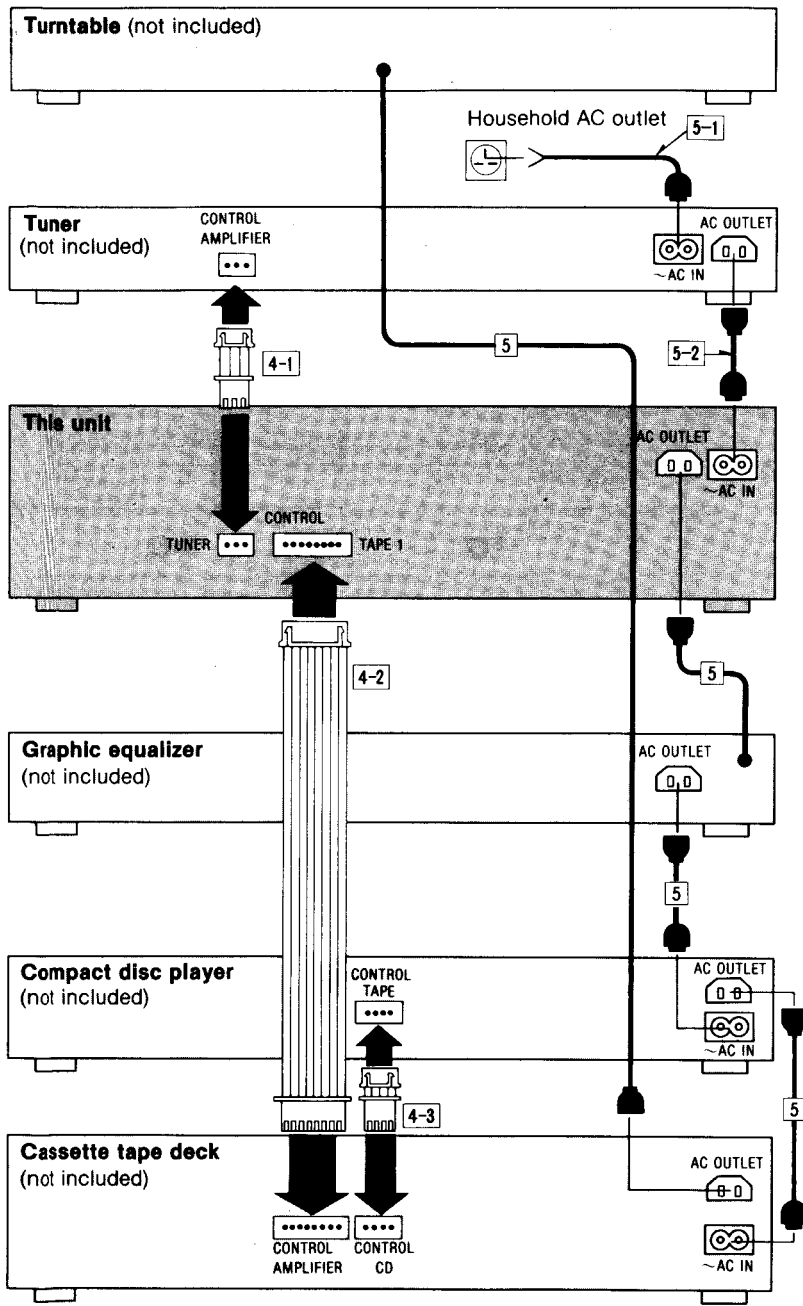
"EXT" terminals of this unit

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



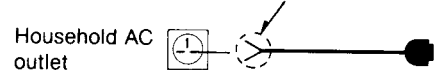
"REMOTE CONTROL OUTPUT" terminal of the graphic equalizer

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.

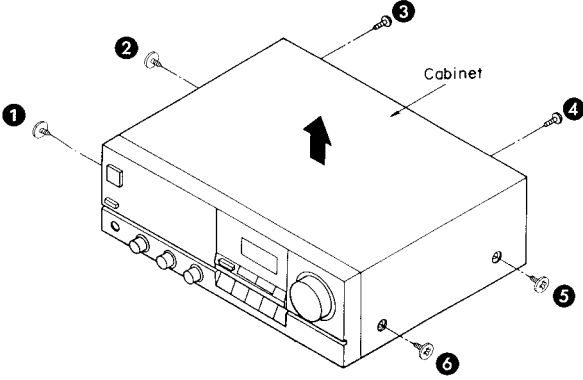
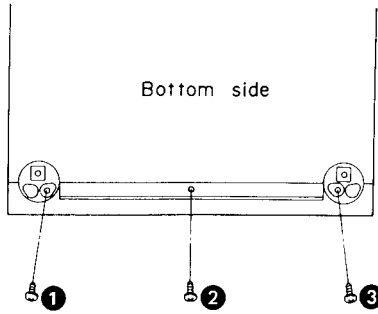
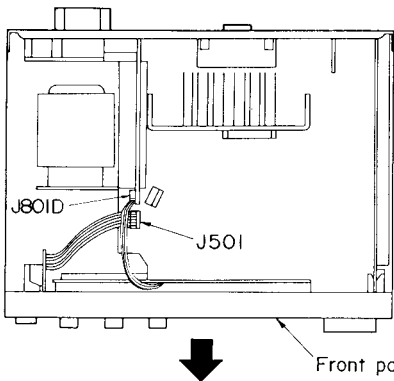
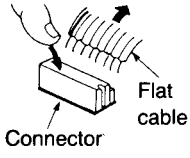
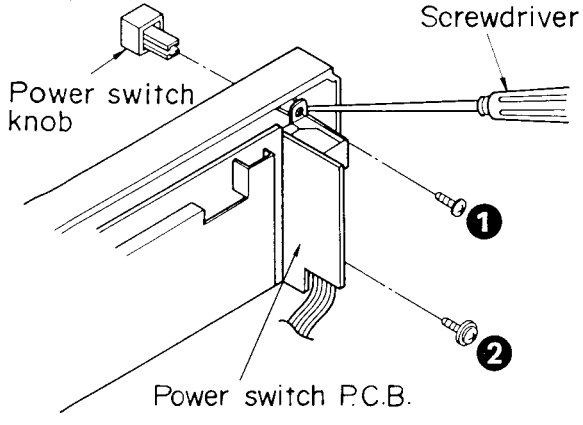
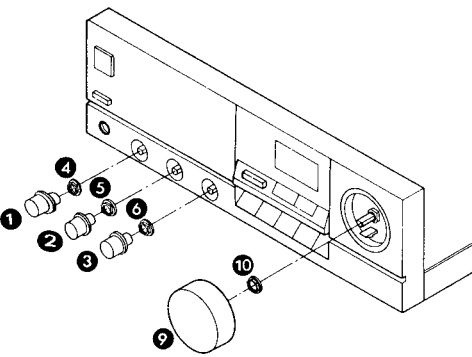
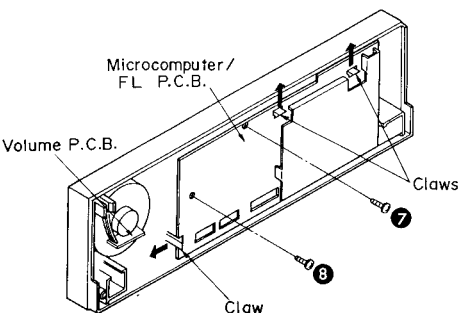
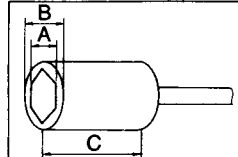
Note:
 If the graphic equalizer is not used in combination with these components, connect the AC power supply cord of the compact disc player to the AC outlet of the amplifier. If the compact disc player is not used in combination with these components, connect the AC power supply cord of the cassette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

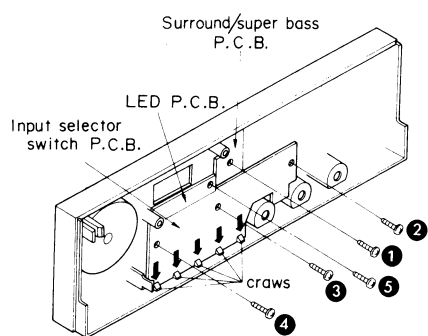
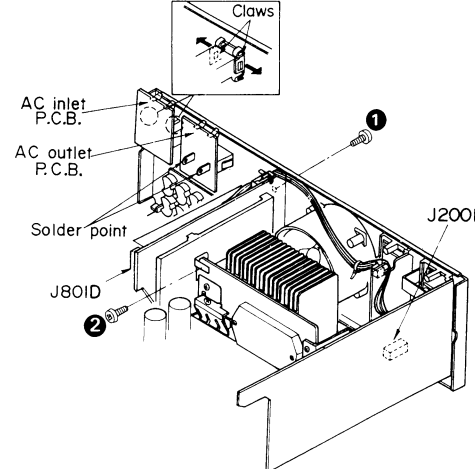
■ About the AC outlets of the each components

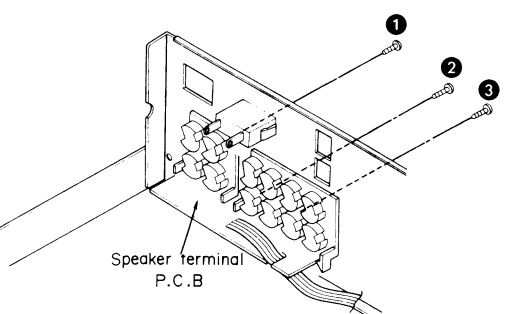
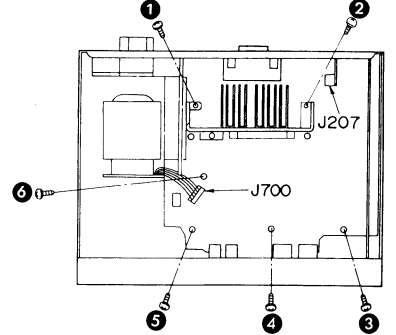
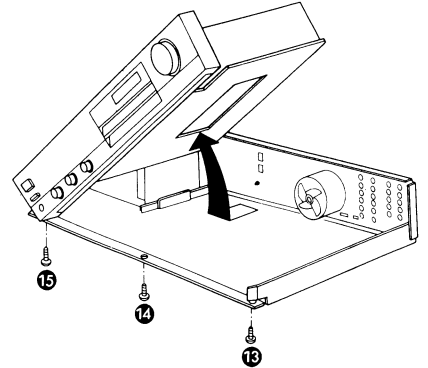
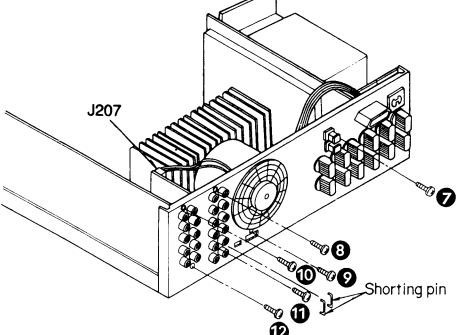
Do not connect video-related equipment (such as a TV, etc.) to the AC outlets of these components. (These outlets are especially for audio equipment.) Also do not exceed the indicated power ratings when connecting to these outlets.

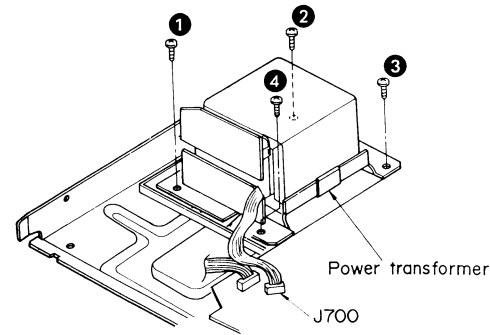
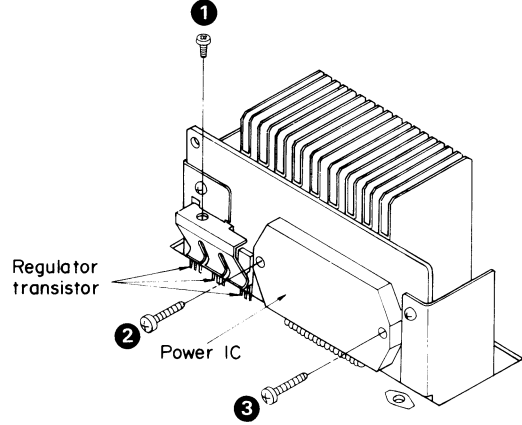
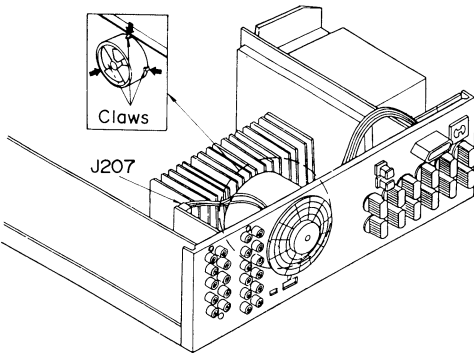
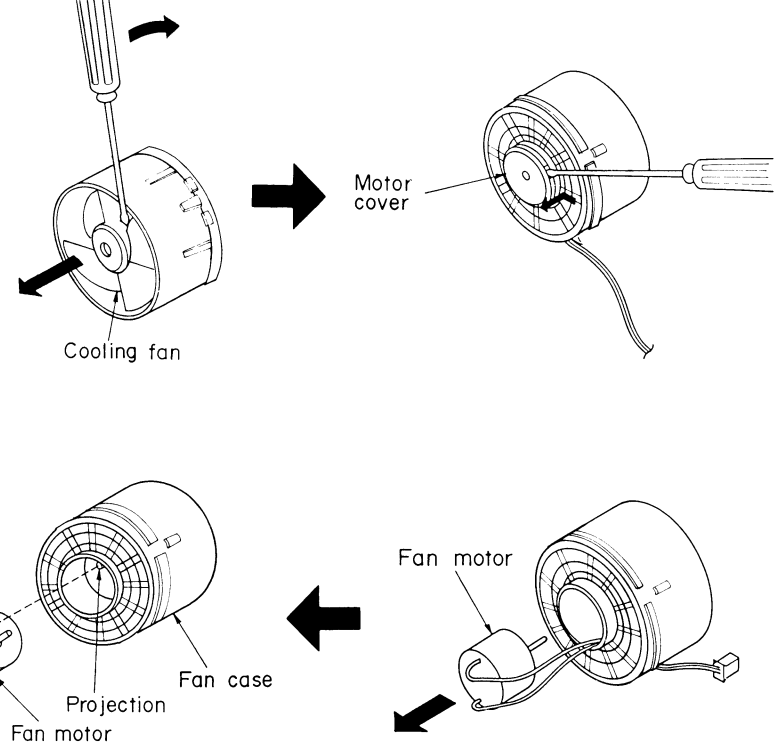
- **“SWITCHED” outlets** (For tuner, this unit, cassette tape deck)
 Power is controlled by the power switch of each unit.
- **“UNSWITCHED” outlets** (For compact disc player, graphic equalizer)
 Power is always available, regardless of power switch setting.

DISASSEMBLY INSTRUCTIONS

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

Ref. No. 5	Removal of the surround/super bass P.C.B., input selector switch P.C.B. and LED P.C.B.	Ref. No. 6	Removal of the digital input P.C.B. AC outlet P.C.B. and AC inlet P.C.B.
Procedure 1→2→4→5 Removal of the surround/super bass P.C.B. ●Remove the 1 screw (1). Removal of the input selector switch 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).		Procedure 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.	

Ref. No. 7	Removal of the speaker terminal P.C.B.	Ref. No. 8	Checking of the main P.C.B.
Procedure 1→6→7 ●Remove the 3 screws (1~3).		Procedure 1→6→8 1. Remove the 6 screws (1~6). 2. Remove the flat cable (J207, J700).	
 <p>6. Remove the 3 screws (13~15).</p>	 <p>3. Remove the 6 screws (7~12). 4. Remove the shorting pin. 5. Pull out the 1 connector (J207).</p>		

Ref. No. 9	Removal of the power transformer	Ref. No. 10	Removal of the power IC and regulator transistor
Procedure 1→6→8→9	1. Remove the 4 screws (1~4). 2. Remove the flat cable (J700).	Procedure 1→8→10 1. Unsolder the power IC or regulator transistor. 2. Remove the 3 screws (1~3).	  <p>●When mounting the power IC or regulator transistor. Apply silicone compound (SZZOL15) to the rear side of power IC or regulator transistor.</p>
Ref. No. 11	Removal of the fan motor	3. Insert a screwdriver at the root of the cooling fan. Force it out of the motor shaft.	
Procedure 1→11	1. Pull out the 1 connector (J207). 2. Remove the 3 claws.	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.	
			

Ref. No. 9
Removal of the power transformer

Procedure 1→6→8→9

1. Remove the 4 screws (1~4).
2. Remove the fiat 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.

Ref. No. 11
Removal of the fan motor

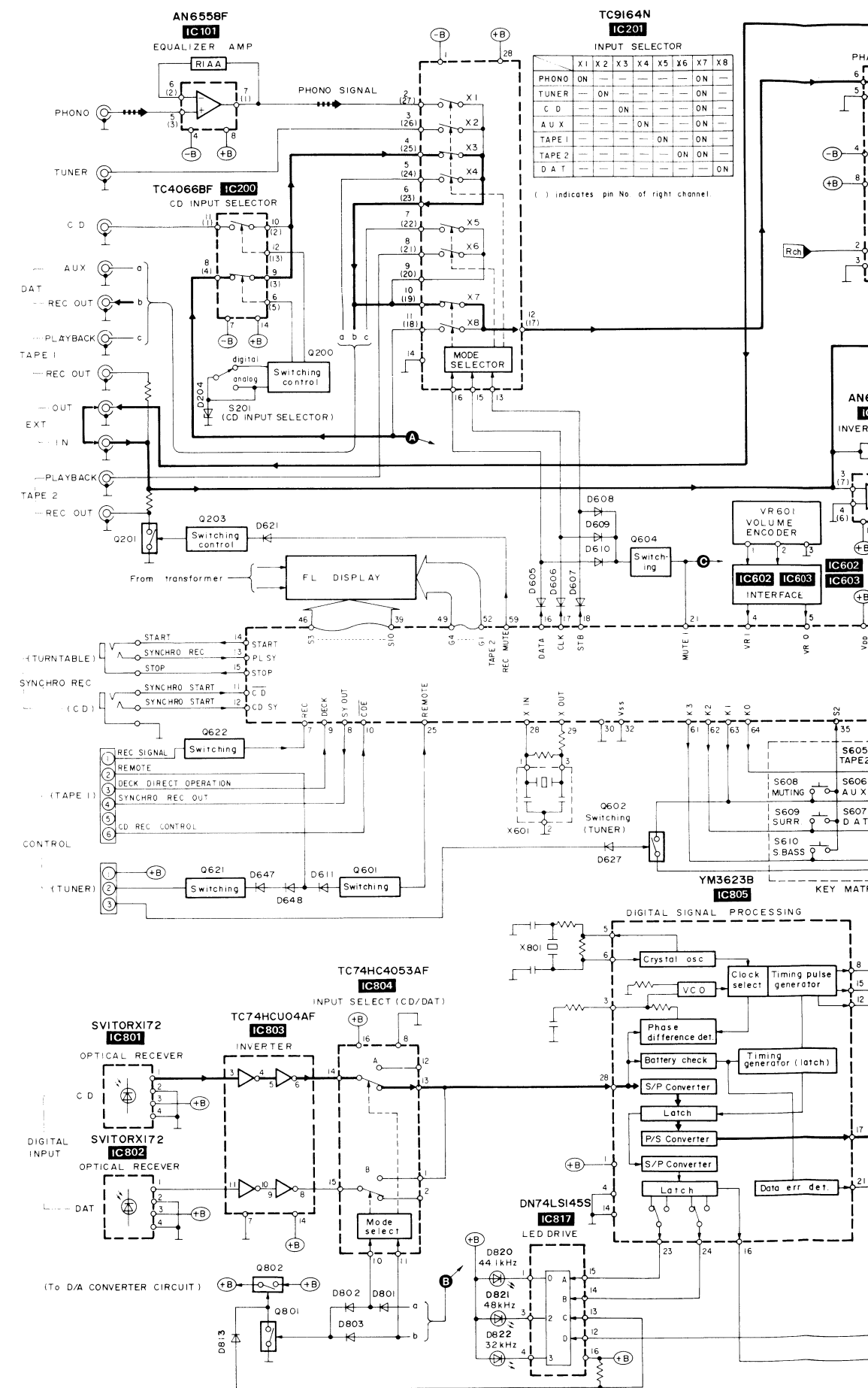
Procedure 1→11

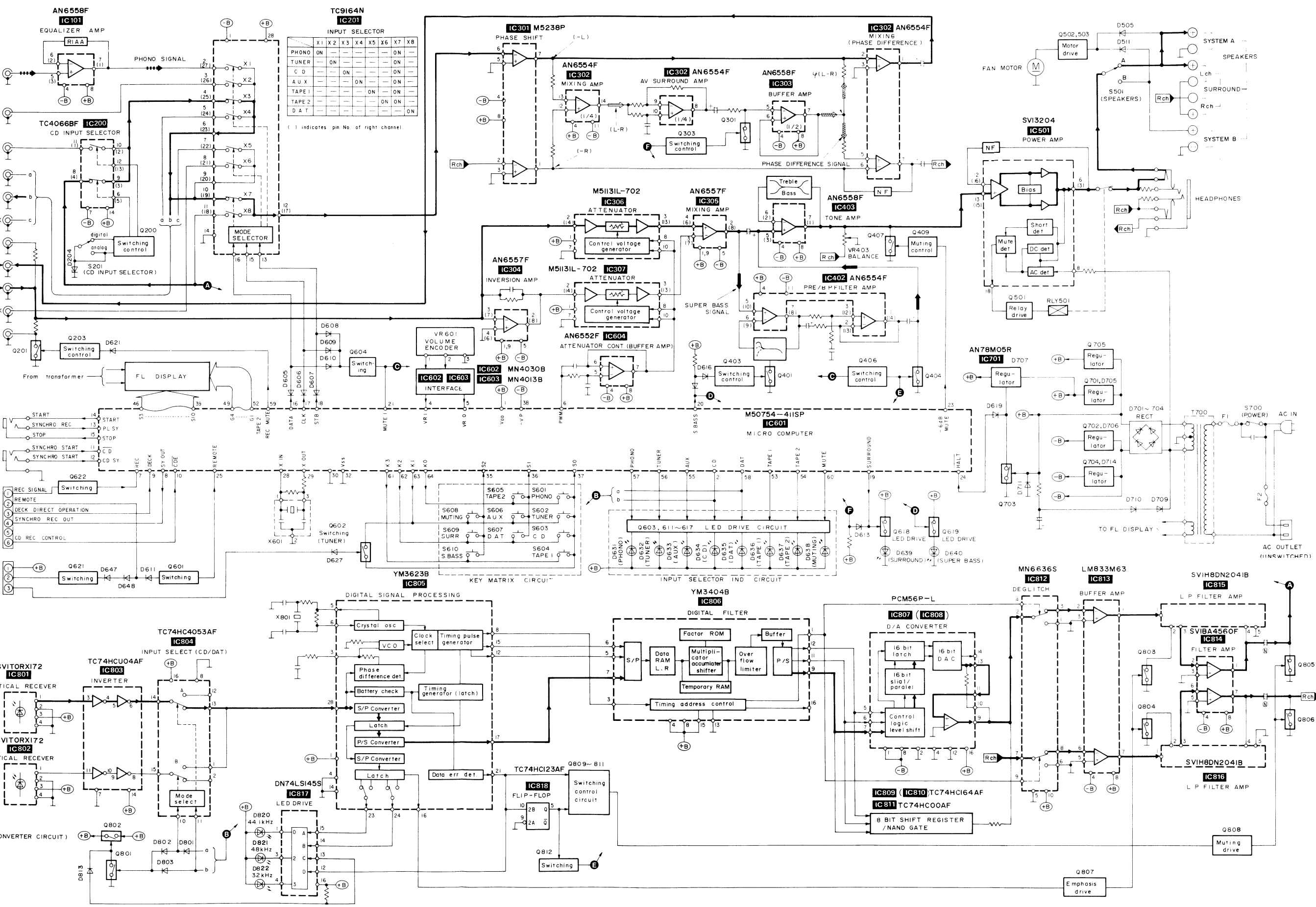
1. Pull out the 1 connector (J207).
2. Remove the 3 claws.

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.

Claws
J207
Cooling fan
Motor cover
Fan motor
Rear cabinet
Hole
Fan case
Fan motor
Projection

■ BLOCK DIAGRAM



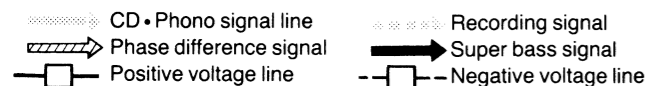


SCHEMATIC DIAGRAM

(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.

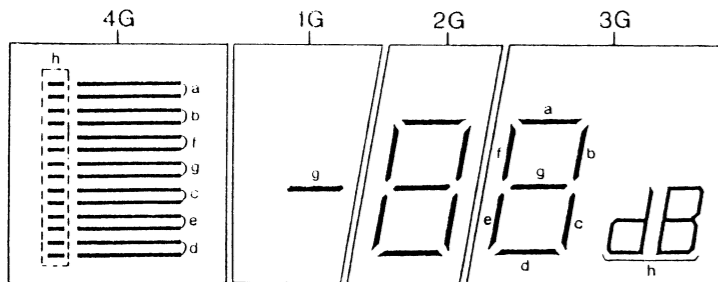


- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- Important safety notice: Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

- *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

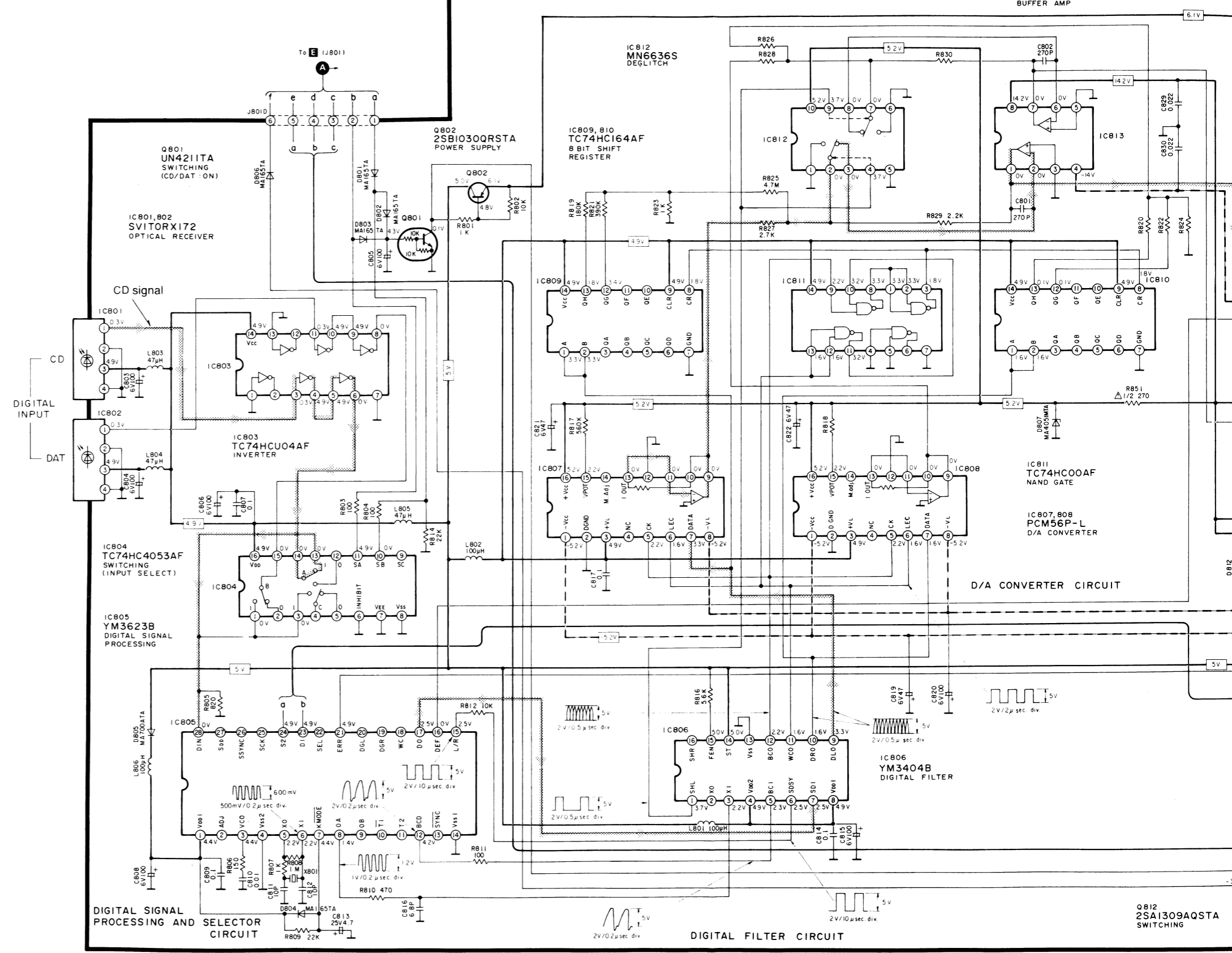
GRID ASSIGNMENT

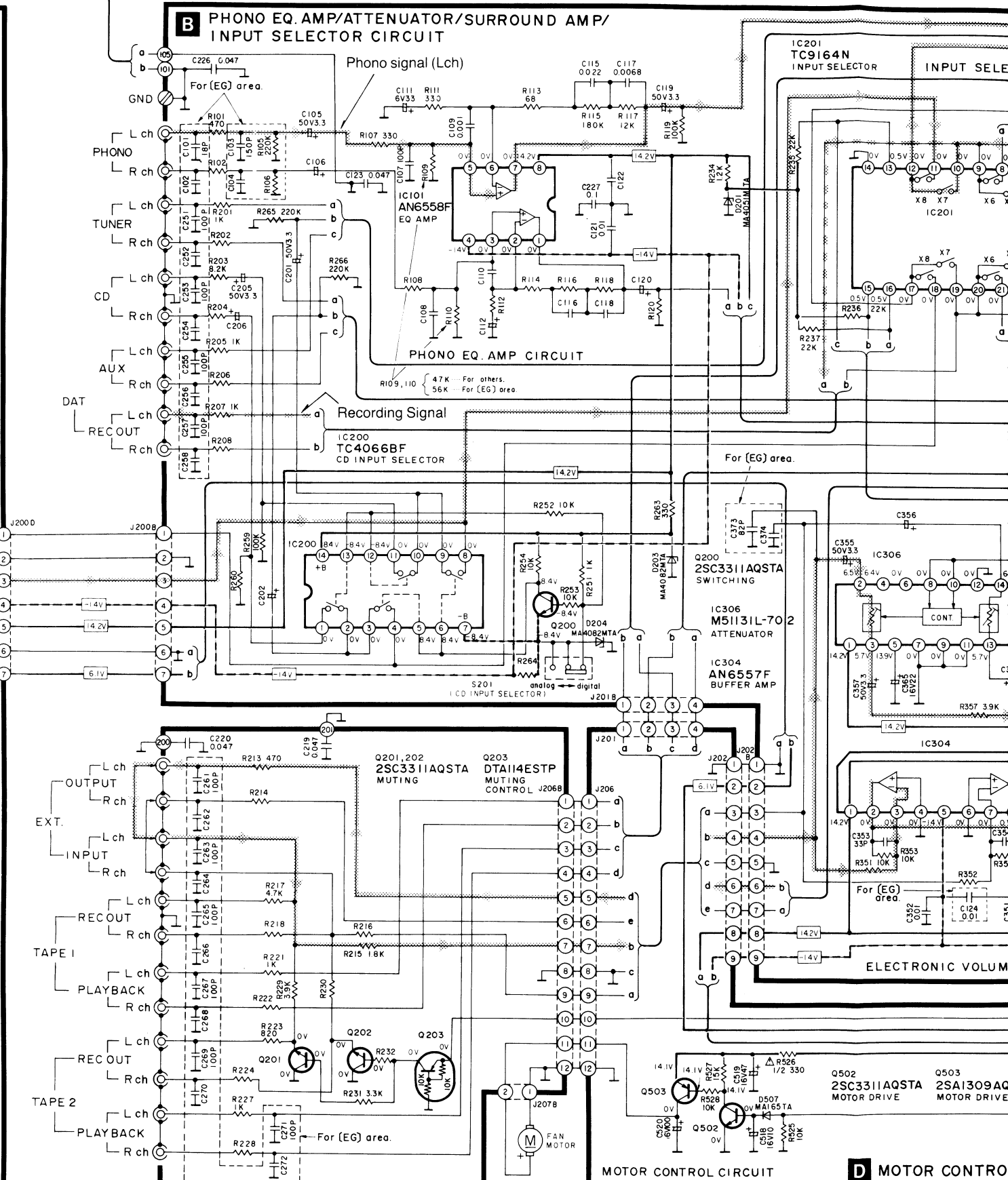
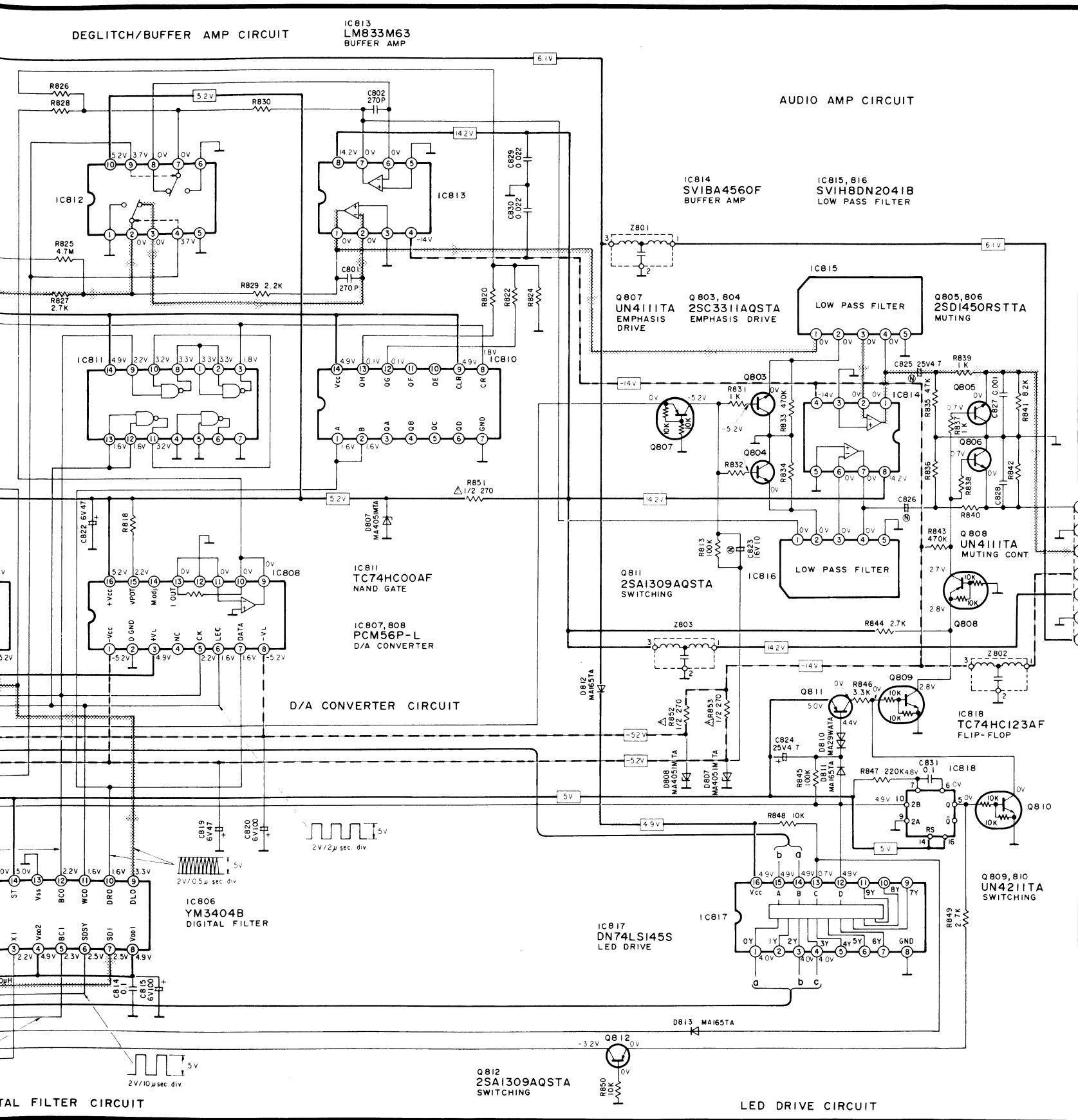


PIN CONNECTION

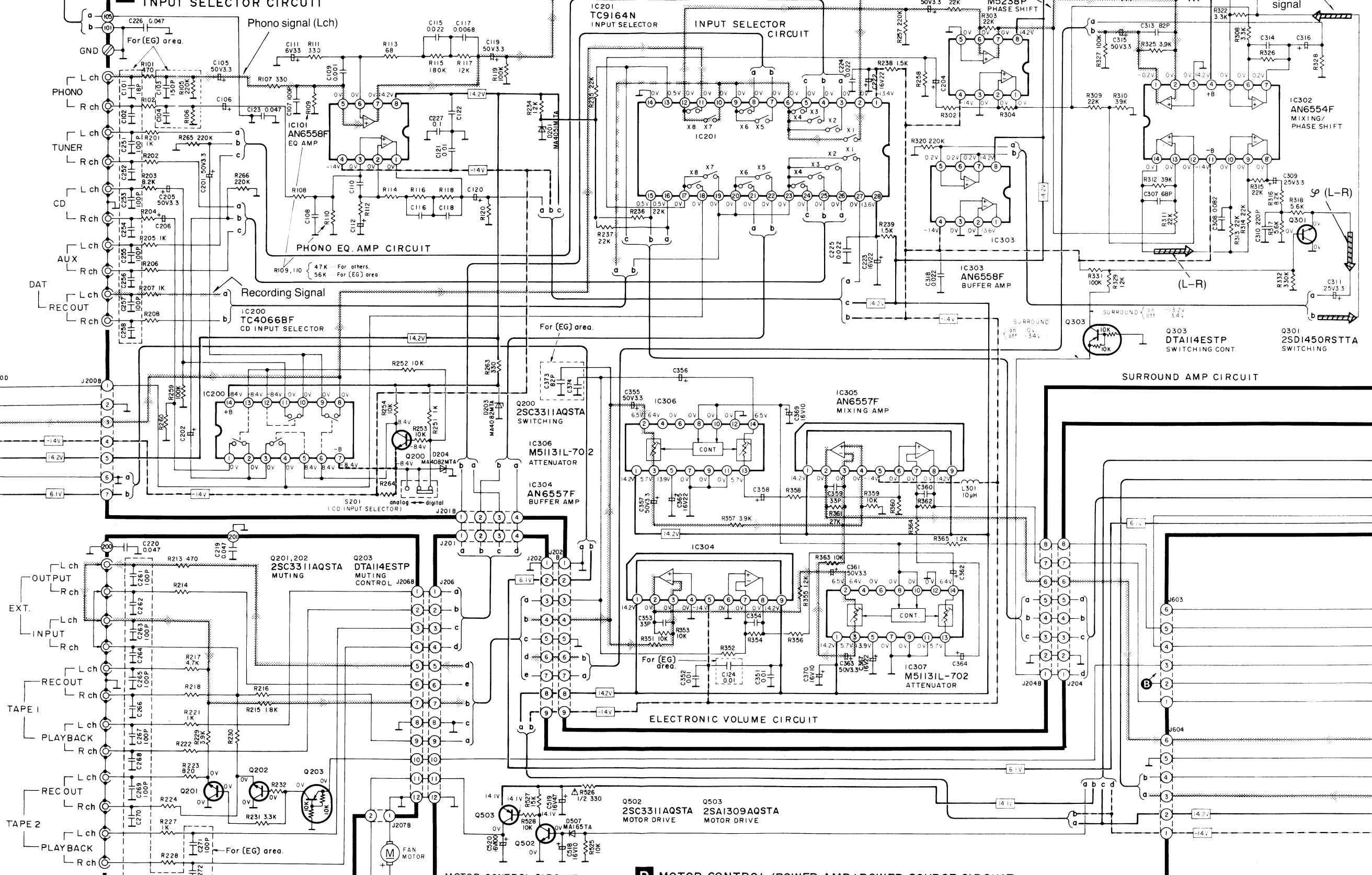
Pin No.	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1									
Connection	F	F	N	P	a	4	G	b	c	d	1	G	e	f	2	G	g	3	N	P	h	3	G	N	P	1	F	F	1

A D/A CONVERTER CIRCUIT



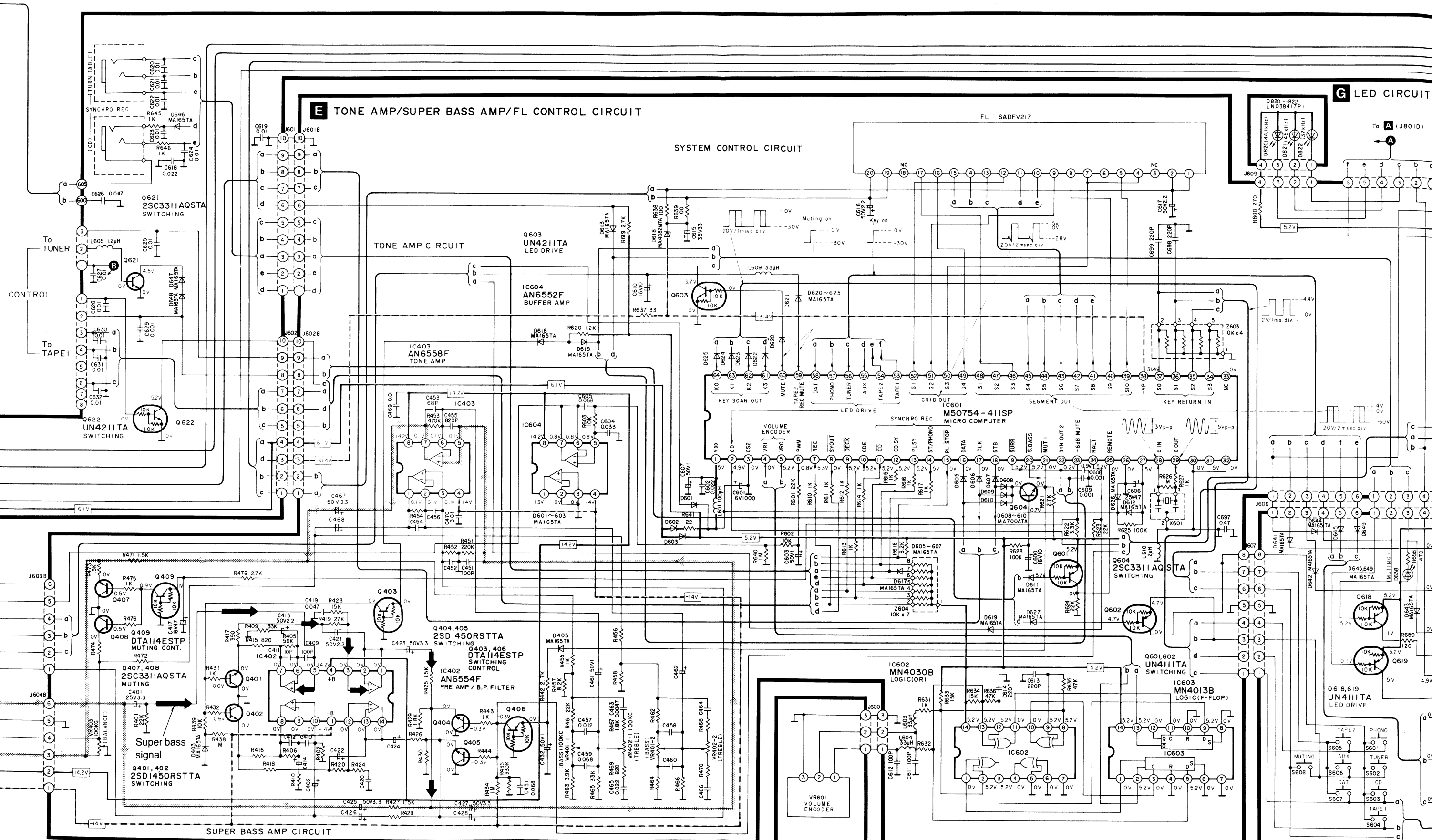


B PHONO EQ. AMP/ATTENUATOR/SURROUND AMP/ INPUT SELECTOR CIRCUIT

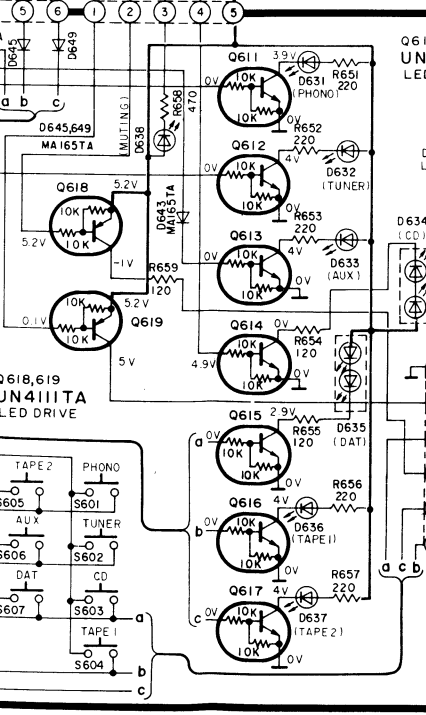
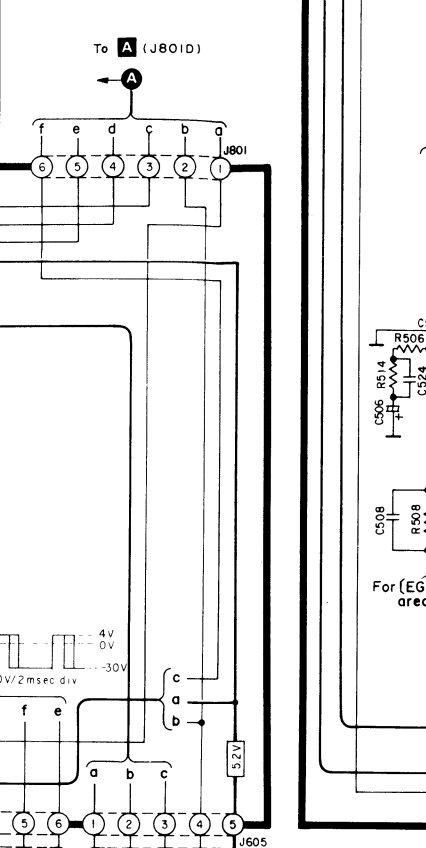


C INPUT/OUTPUT TERMINAL CIRCUIT

D MOTOR CONTROL/POWER AMP/ POWER SOURCE CIRCUIT

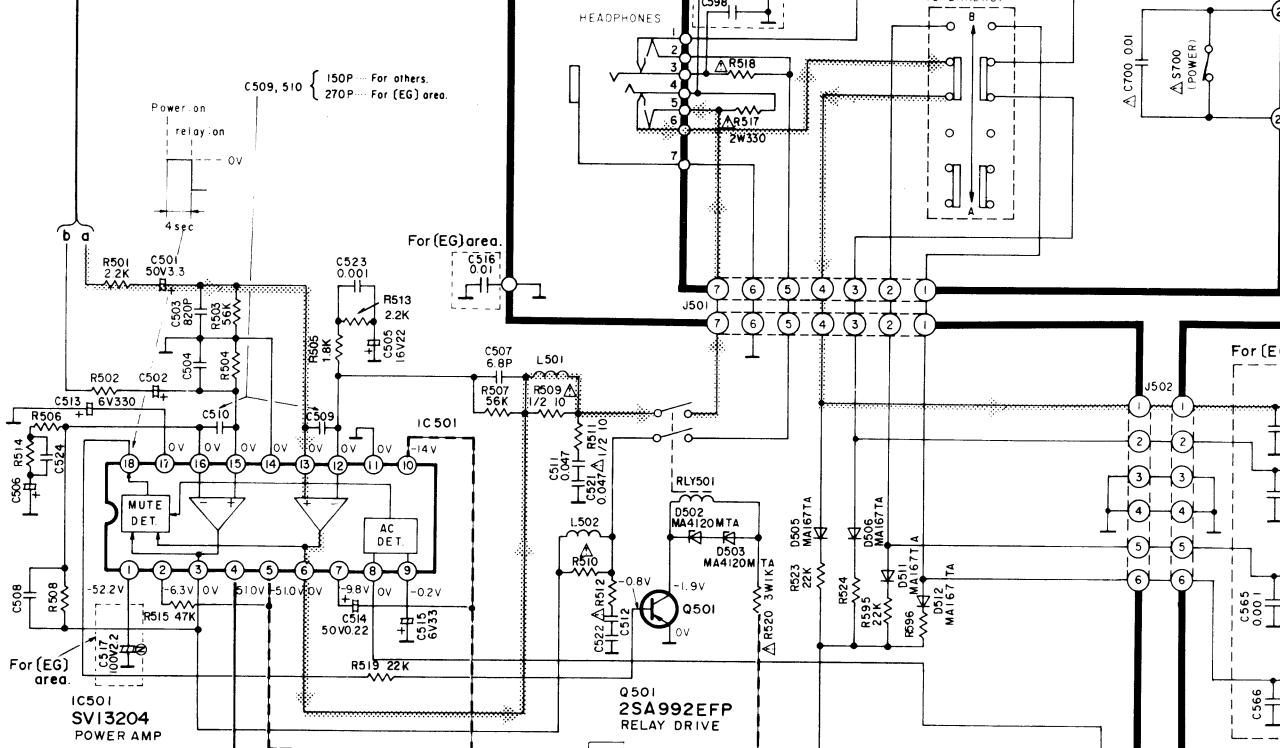


G LED CIRCUIT

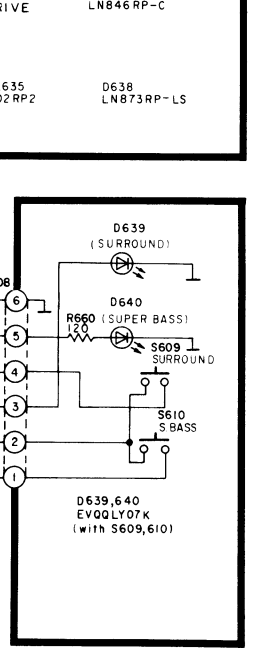


SELECT SWITCH/LED DRIVE CIRCUIT

POWER AMP CIRCUIT



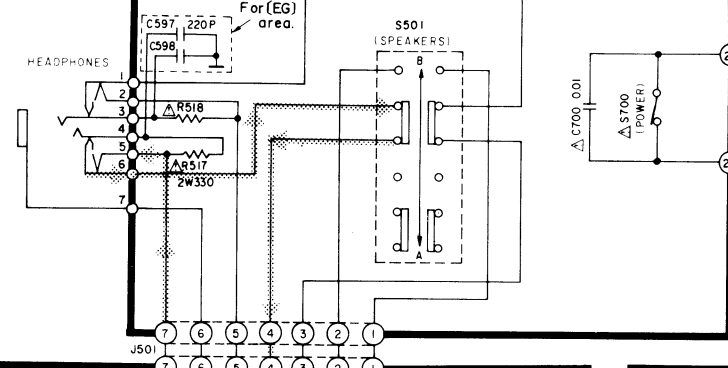
LED DRIVE



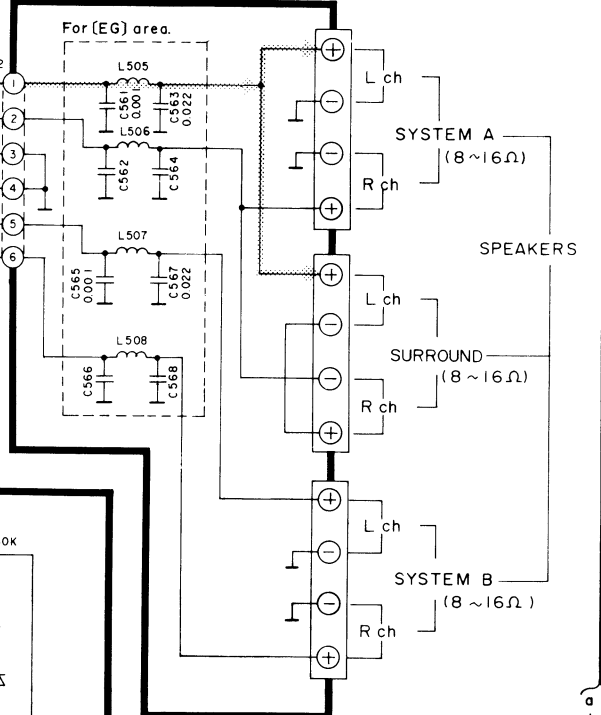
1 SURROUND/SUPER BASS SWITCH CIRCUIT



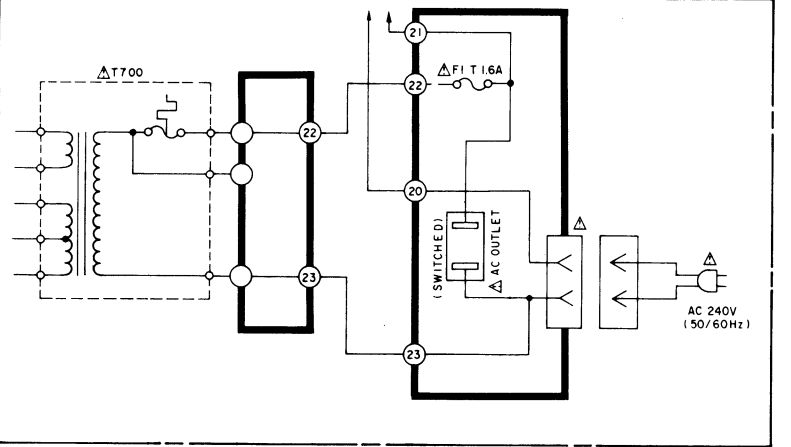
J POWER SWITCH/SPEAKERS SWITCH/ HEADPHONES JACK CIRCUIT



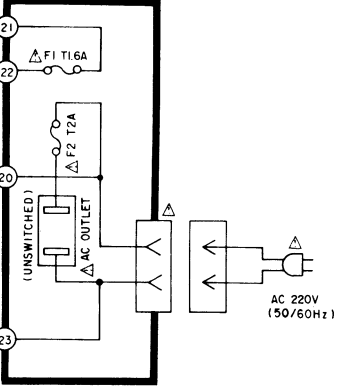
K SPEAKER TERMINAL CIRCUIT



Power Source For [EB] area.



L AC IN/AC OUTLET TERMINAL CIRCUIT

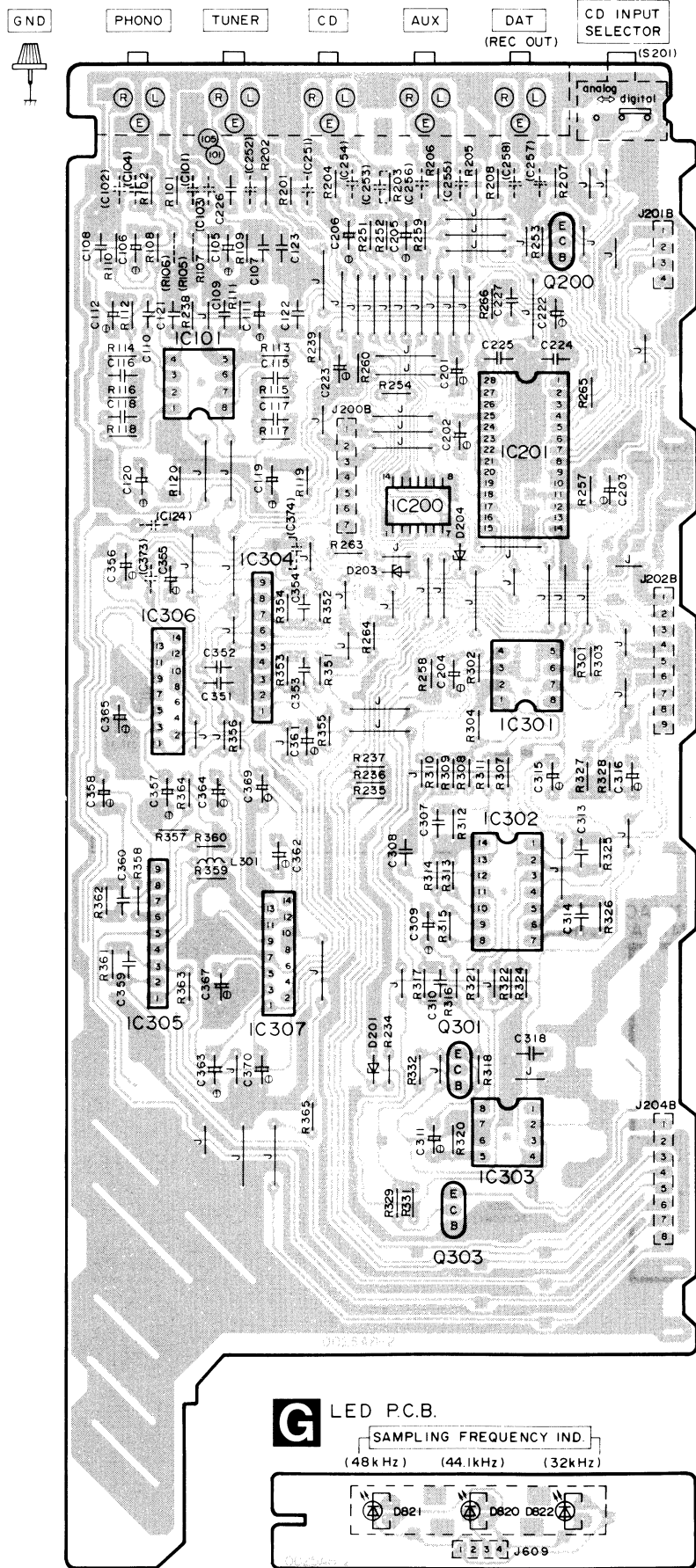


POWER SOURCE CIRCUIT

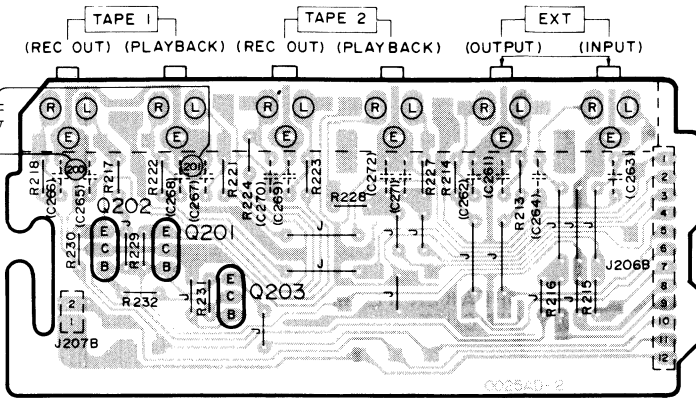


PRINTED CIRCUIT BOARDS (Parts list on page 27~31)

B PHONO EQ. AMP/ATTENUATOR/SURROUND AMP/ INPUT SELECTOR P.C.B.

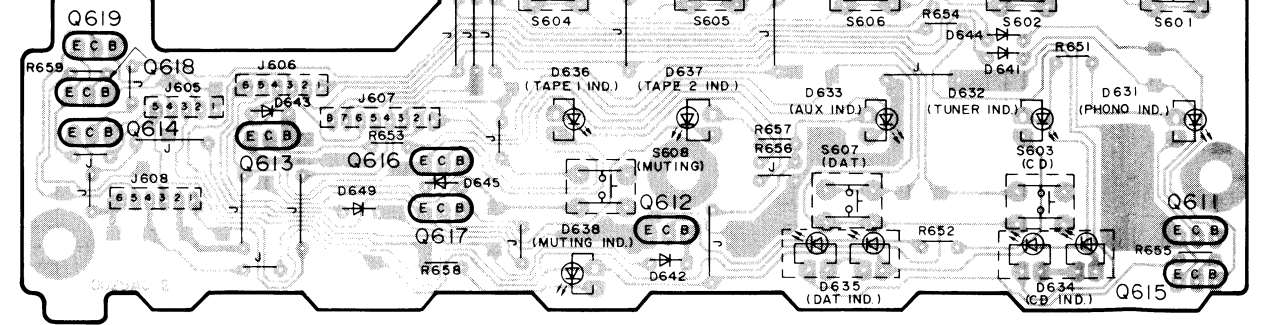


C INPUT/OUTPUT TERMINAL P.C.B.

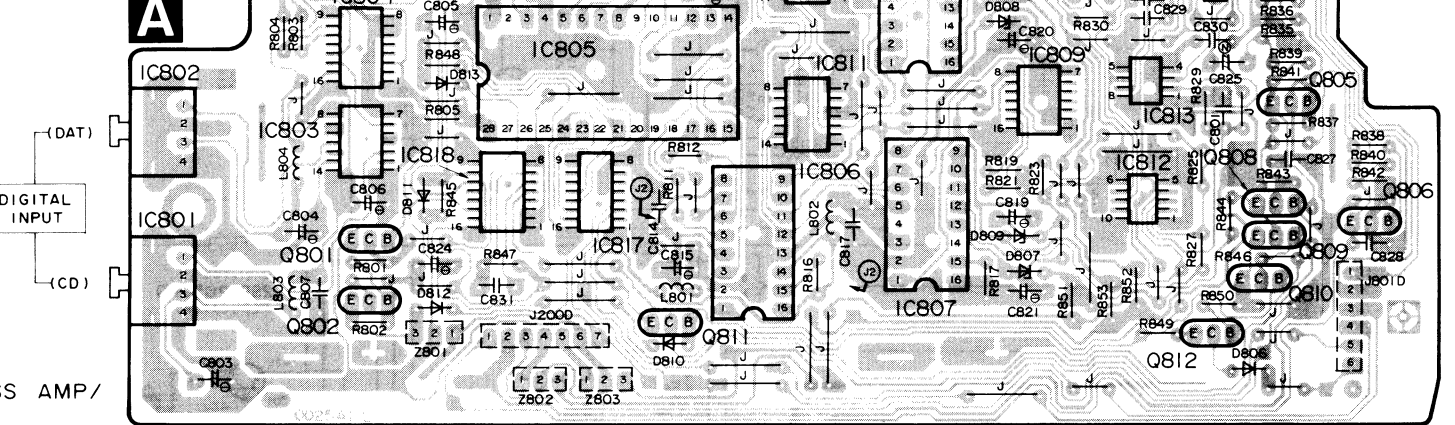


Note:
 (C) Capacitors and Resistors indicated by (C) or (R) area, used only in the EG (FR Germany/Italy) area.

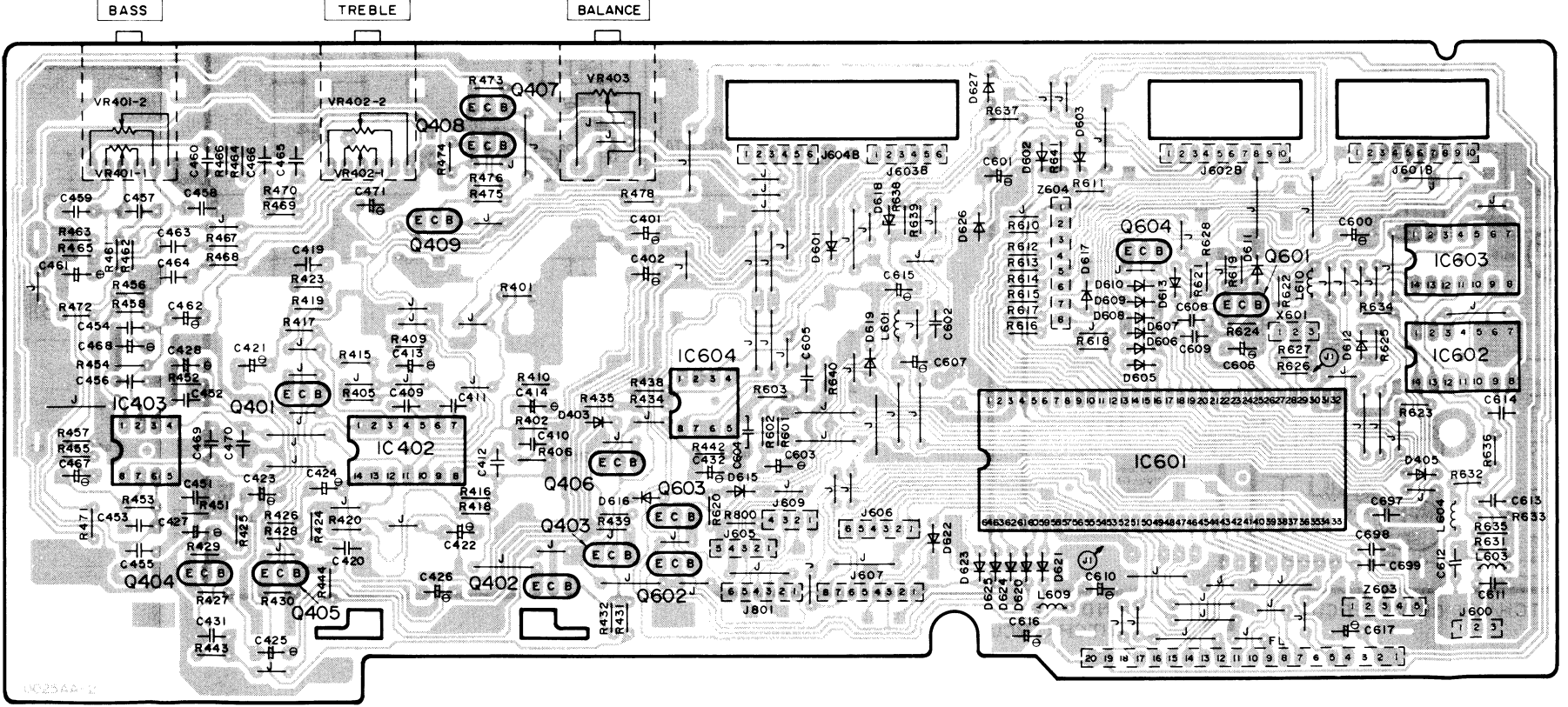
H INPUT SELECT SWITCH/ LED DRIVE P.C.B.



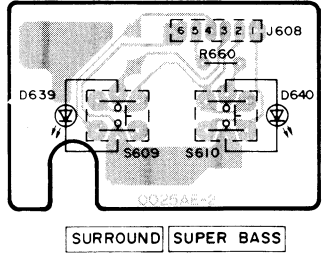
A D/A CONVERTER P.C.B.



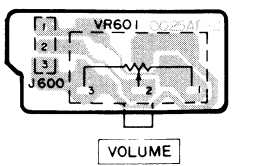
E TONE AMP/SUPER BASS AMP/ FL CONTROL P.C.B.



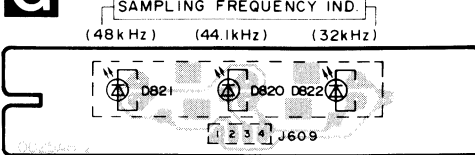
I SURROUND/SUPER BASS SWITCH P.C.B.

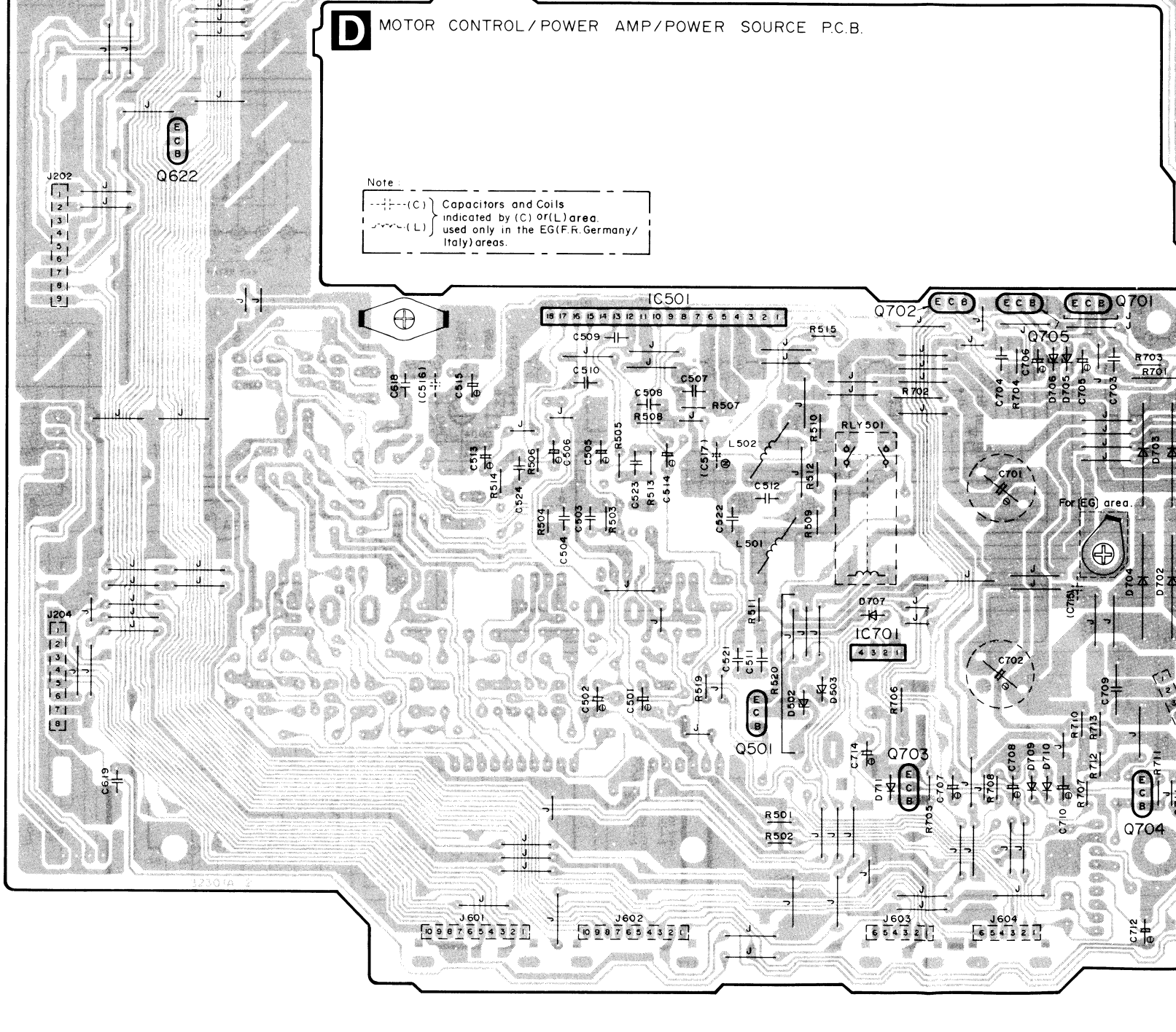
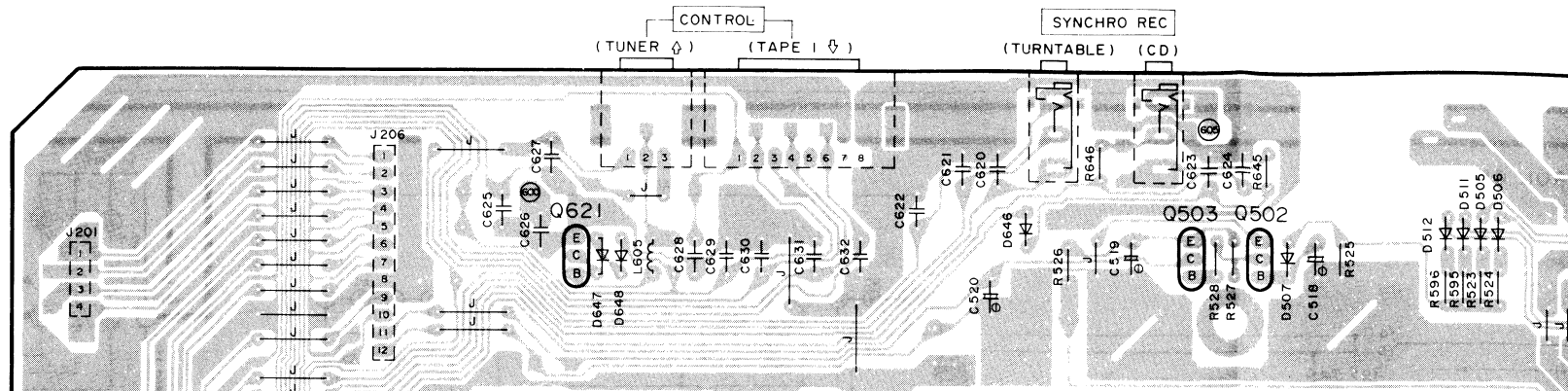
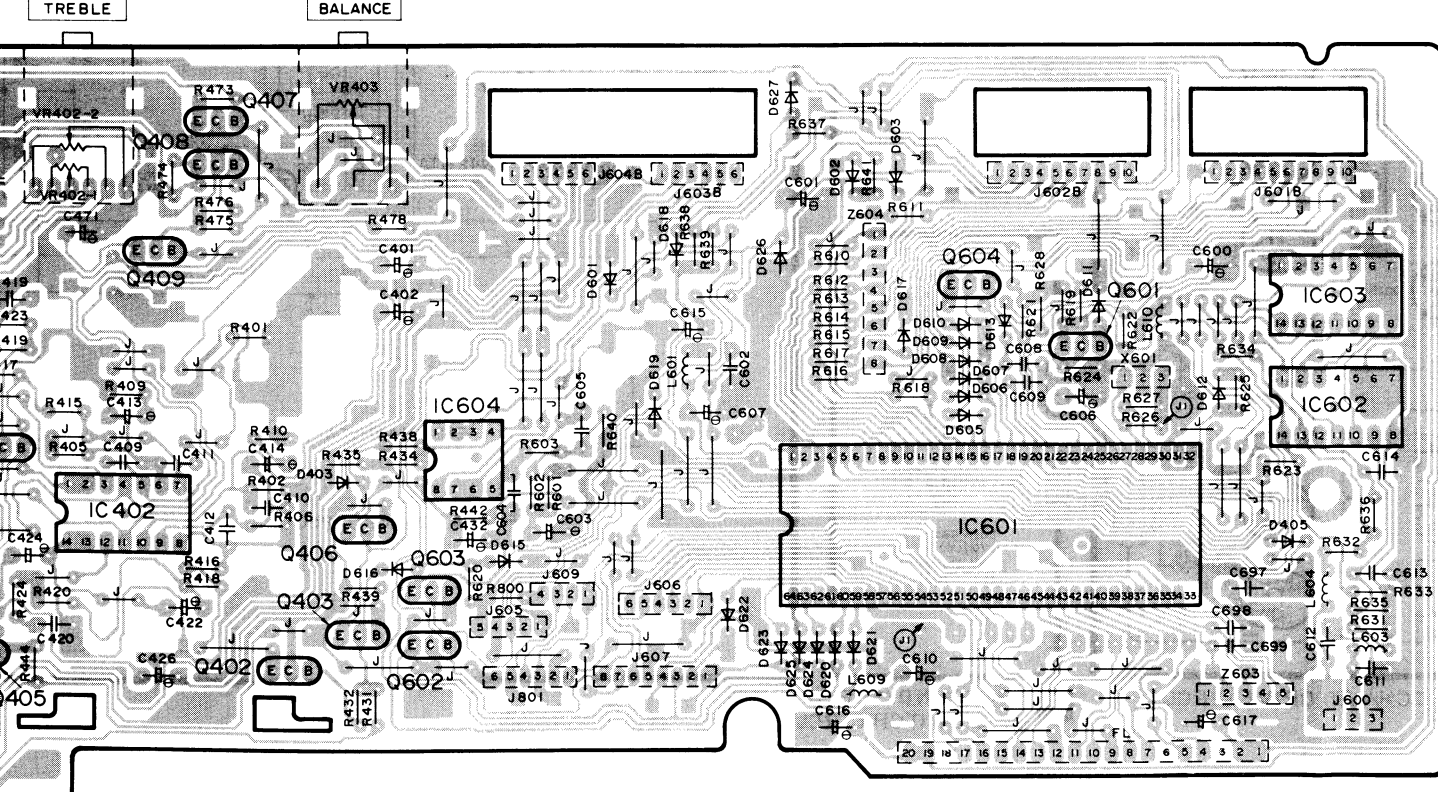
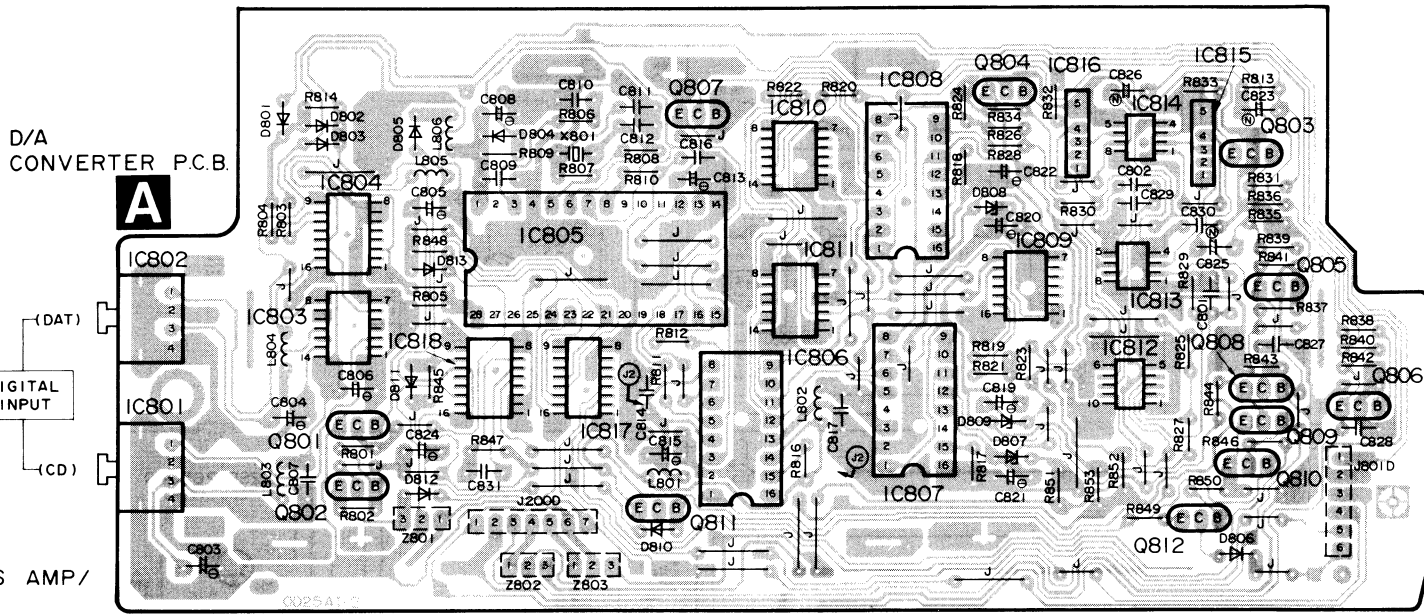
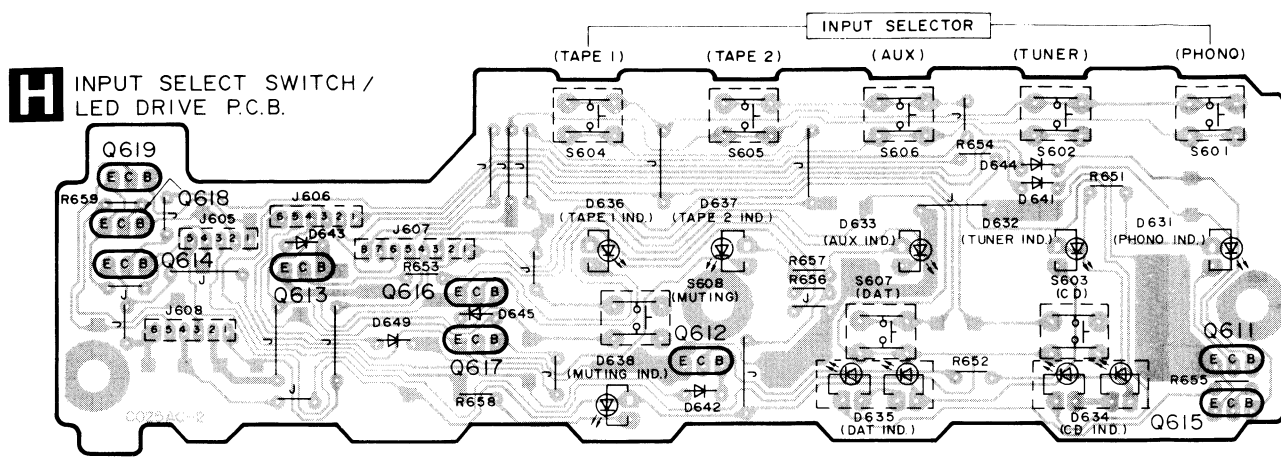


F VOLUME P.C.B.

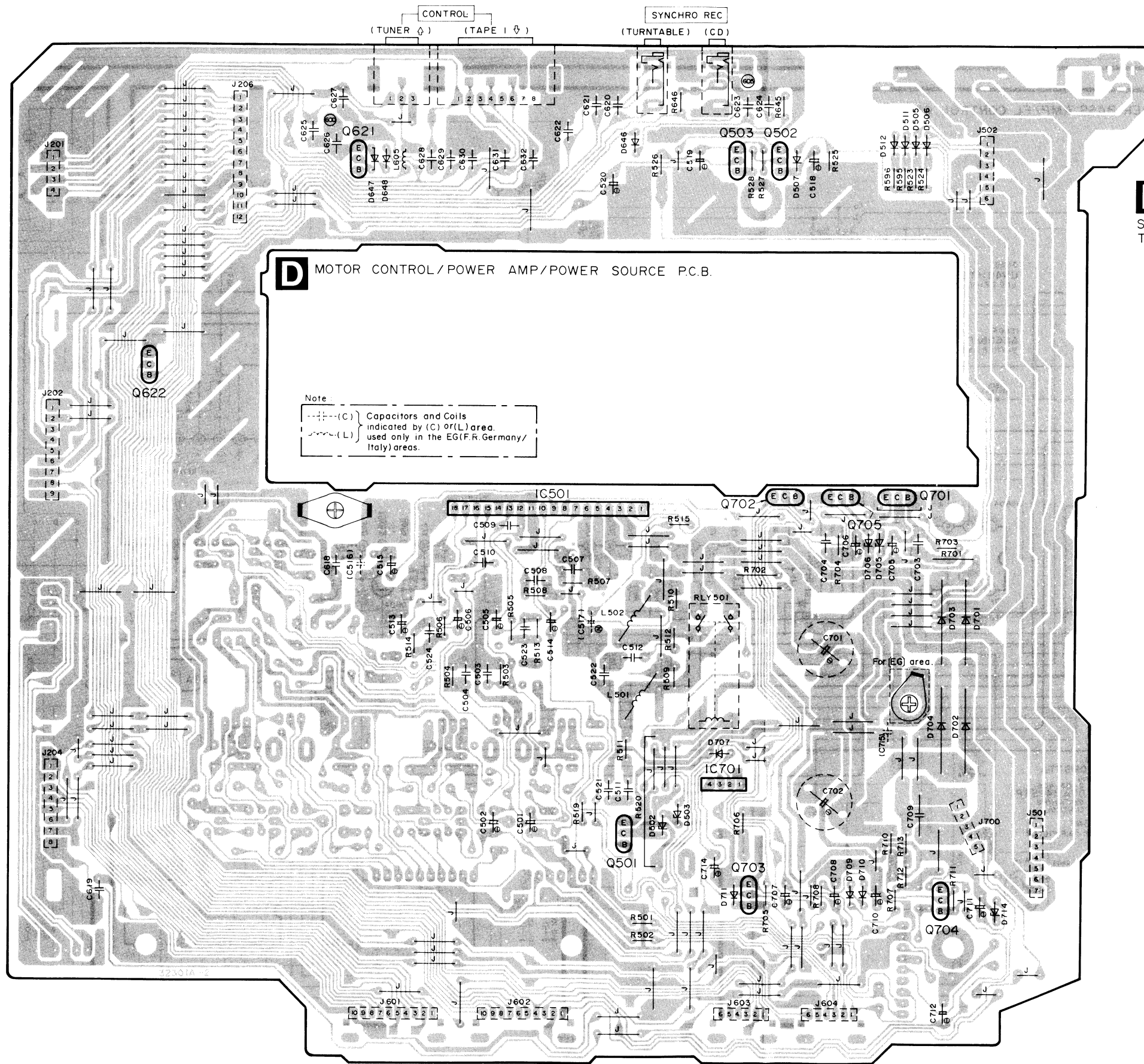
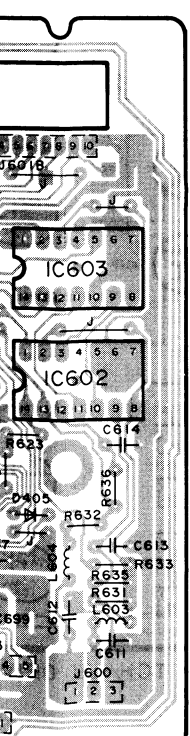
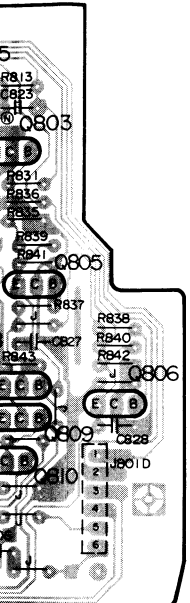
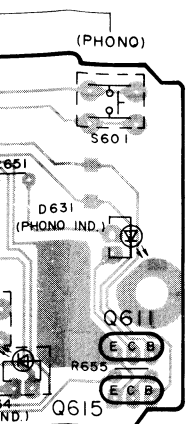


G LED P.C.B.



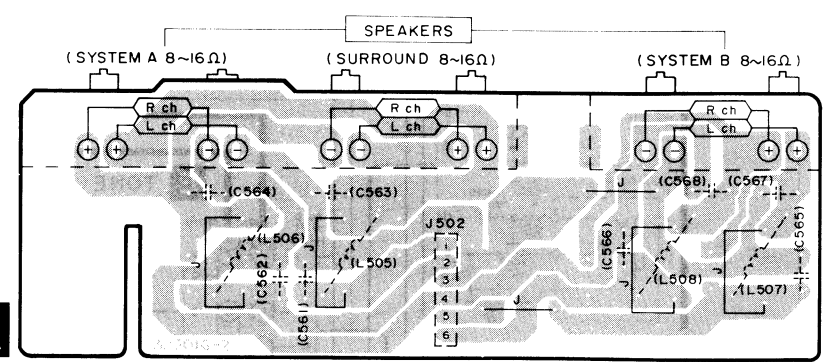


Note:
 (C) Capacitors and Coils indicated by (C) or (L) area, used only in the EG(F.R. Germany/Italy) areas.



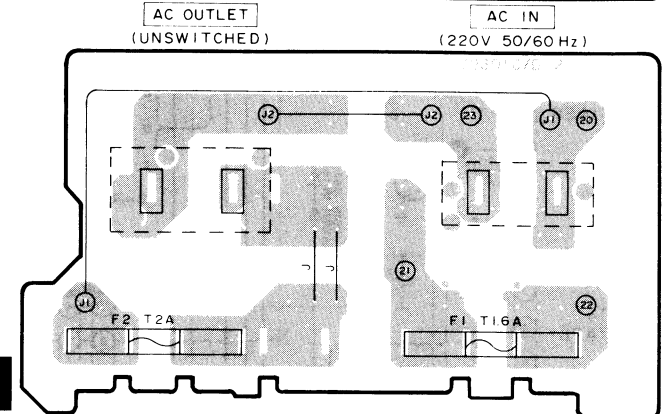
D MOTOR CONTROL/POWER AMP/POWER SOURCE P.C.B.

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



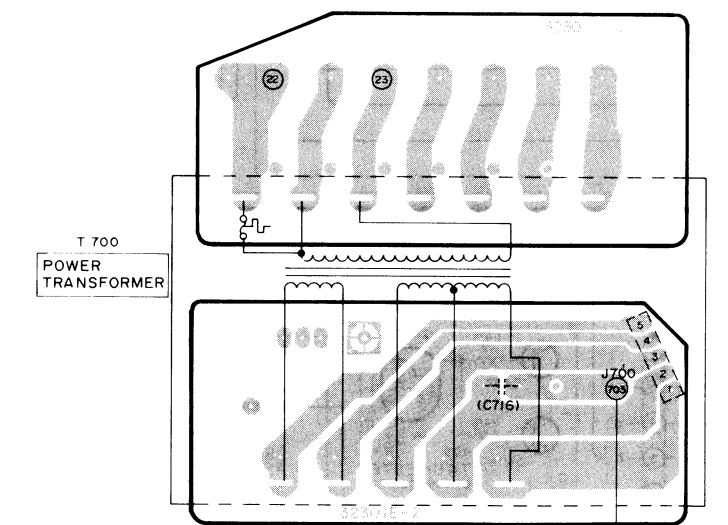
K

SPEAKER TERMINAL P.C.B.



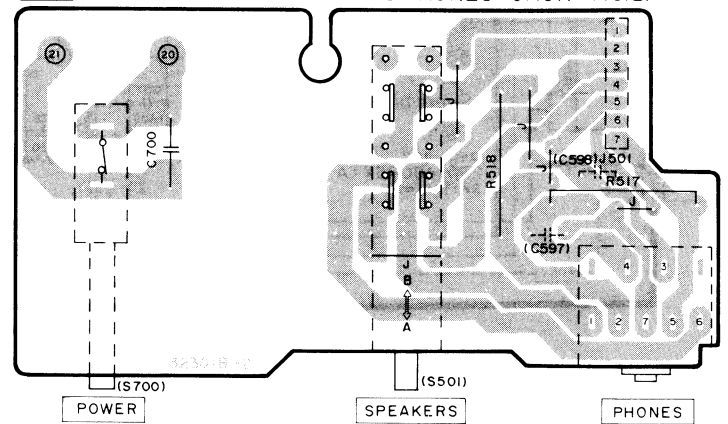
L

AC IN/AC OUTLET TERMINAL P.C.B.

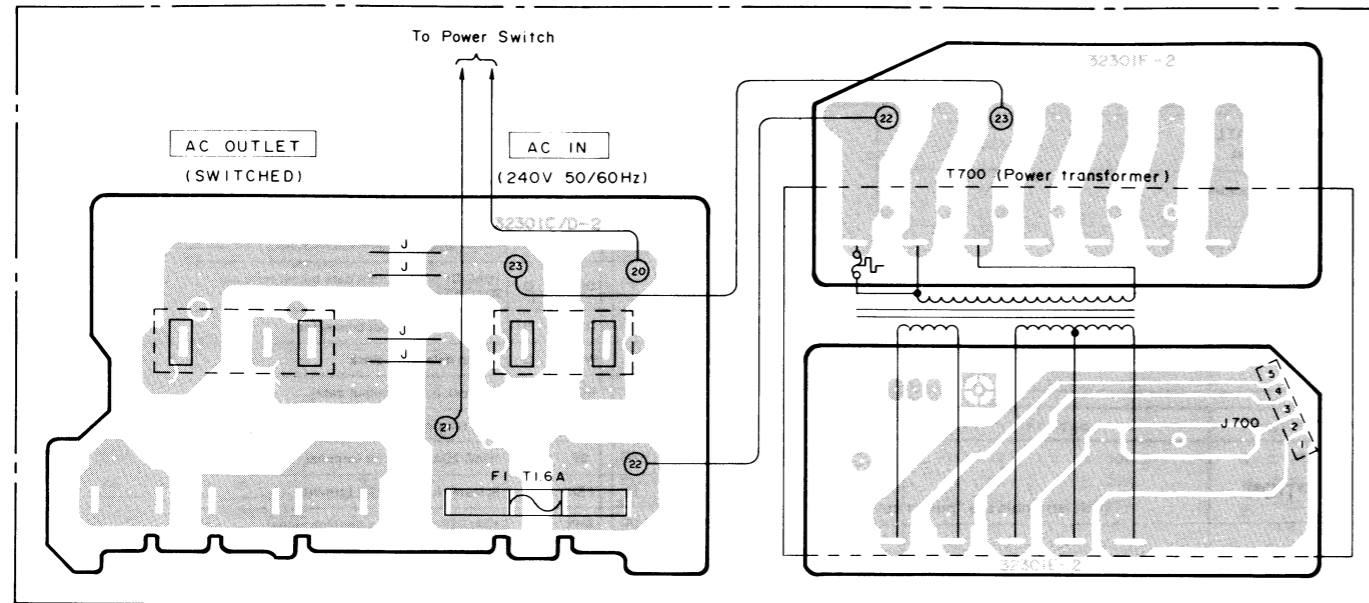


J

POWER SWITCH/SPEAKERS SWITCH/HEADPHONES JACK P.C.B.



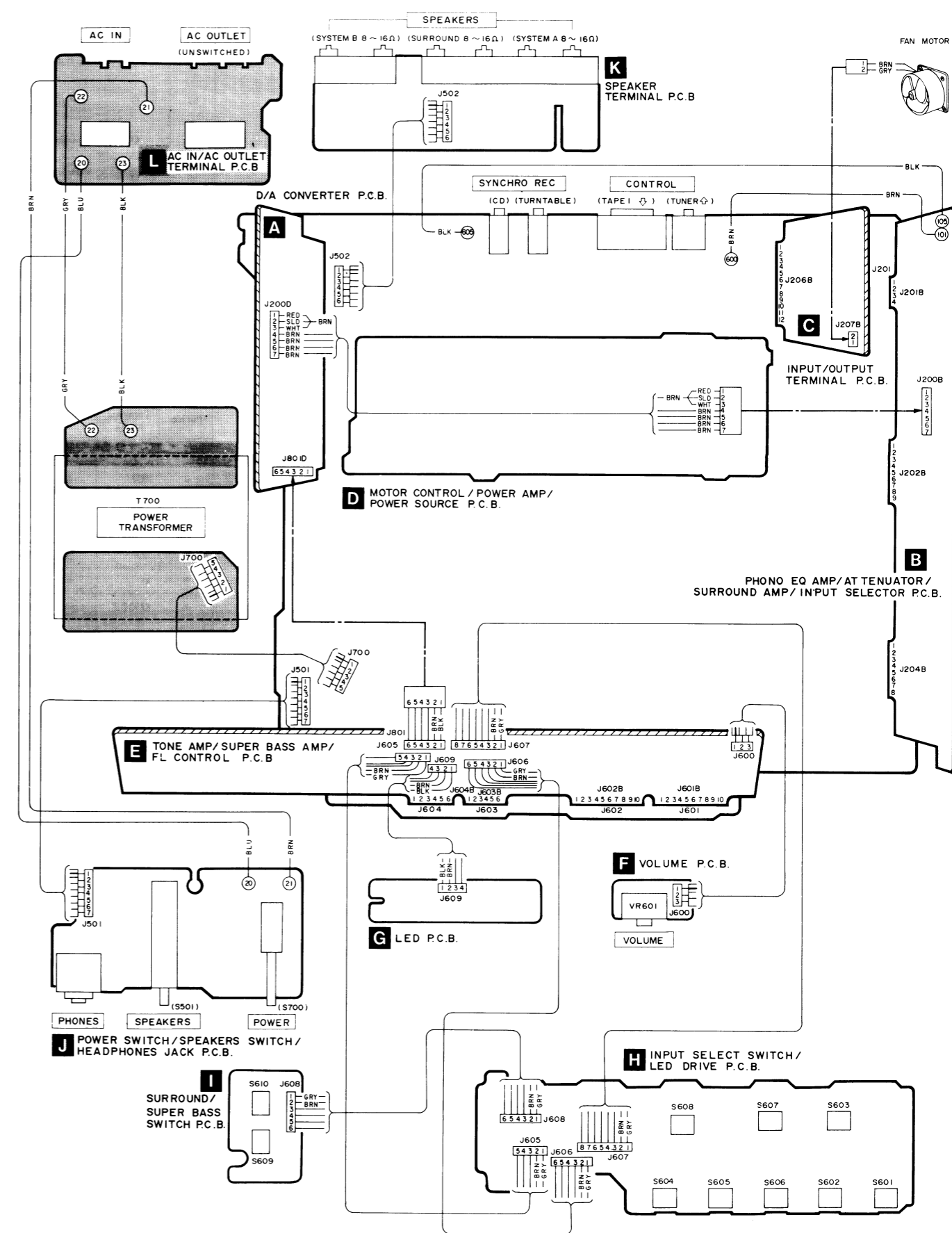
Power Source For [EB] area



■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

AN6552F AN6558F M5238P LM833M63 SVIBA4560F MN6636S AN6554F MN4030B MN4013B TC74HCU04AF TC4066BF	8 pin 10 pin 14 pin	TC74HC164AF TC74HC00AF TC74HC4053AF TC74HC123AF DN74LS145S YM3404B PCM56P-L TC9164N YM3623B M50754-411SP	14 pin 16 pin 28 pin 64 pin	SVIH8DN2041B	AN6557F
SV13204	18 pin	AN78M05R	4 pin	M51131L-702	2SD1265-P 2SB941PQR
2SB621A-R 2SA992E		MA167 MA29WA MA165 MA700A	Anode Cathode Ca → A	SVDS3V40	LN846RP-C LN873RP-LS LN038417P1
MA4051, MA4120 MA4082M, MA4140M, MA4300M			Anode Cathode Ca → A		LN0202RP2

■ WIRING CONNECTION DIAGRAM



FUNCTIONS OF IC TERMINALS

•IC601 (M50754-411SP) MICRO COMPUTER

Pin No.	I/O	Terminal Name	Function		
1	I	V _{cc}	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	I	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	I	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	The serial data inputted into IC201 is latched by the STB pulse and the switch is set to ON according to data.		
18		STB			
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 _c IN	Unused.		
31		X _c OUT			
32	—	V _{ss}	For ground connection.		
33	—	NC	Unused.		
35 / 37	O	S0 / S2	These are the key matrix terminals for input selection.		
61 / 64		K0 / K3			
35		35		36	37
61		SUPER DYNAMIC SOUND		—	TAPE
62	SURROUND	DAT	CD		
63	MUTING	VD	TUNER		
64	—	VTR	PHONO		
38	I	V _p	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.	

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 MHz 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>Function</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>L</td> <td>Copying is not possible</td> <td>L</td> <td>DC (except DAT)</td> </tr> <tr> <td>L</td> <td>H</td> <td>Copying is possible</td> <td>H</td> <td>DAT</td> </tr> <tr> <td>H</td> <td>L</td> <td>—</td> <td>L</td> <td>The sampling frequency of the DIN input signal is 44.1 kHz</td> </tr> <tr> <td>H</td> <td>H</td> <td>—</td> <td>H</td> <td>48 kHz</td> </tr> <tr> <td>H</td> <td>L</td> <td>—</td> <td>H</td> <td>32 kHz</td> </tr> <tr> <td>H</td> <td>H</td> <td>—</td> <td>L</td> <td>—</td> </tr> </tbody> </table>	Input	S1	Function	S2	Function	L	L	Copying is not possible	L	DC (except DAT)	L	H	Copying is possible	H	DAT	H	L	—	L	The sampling frequency of the DIN input signal is 44.1 kHz	H	H	—	H	48 kHz	H	L	—	H	32 kHz	H	H	—	L	—
Input	S1	Function	S2	Function																																		
L	L	Copying is not possible	L	DC (except DAT)																																		
L	H	Copying is possible	H	DAT																																		
H	L	—	L	The sampling frequency of the DIN input signal is 44.1 kHz																																		
H	H	—	H	48 kHz																																		
H	L	—	H	32 kHz																																		
H	H	—	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

IC806 (YM3404B) Digital filter

Table with 4 columns: Pin No., Mark, I/O, Function. Lists 16 pins and their respective functions for the digital filter IC.

CE RECEPTION

(PU) terminals are "pulled up".

Large table with multiple columns and rows describing various functions and terminal connections for the CE RECEPTION section.

Notes: * Important safety notice: Components identified by the triangle mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

Numbering System For Resistors

Example table for resistor numbering system showing Type, Wattage, Shape, Tolerance, and Value.

Numbering System For Capacitors

Example table for capacitor numbering system showing Type, Voltage, Value, Tolerance, and Unique characteristics.

- Capacity values are in microfarads (uF) unless specified otherwise, P = Pico-farads (pF) F = Farads (F). Resistance values are in ohms (ohm), unless specified otherwise, 1K = 1,000ohm, 1M = 1,000kohm.

Table for Resistor Type, Wattage, and Tolerance. Lists various resistor types like Carbon, Metal Oxide, etc., with their wattage ratings and tolerance percentages.

Table for Capacitor Type, Voltage, and Tolerance. Lists various capacitor types like Electrolytic, Ceramic, etc., with their voltage ratings and tolerance percentages.

Large table listing Resistor Reference Numbers (Ref. No.), Part Numbers (Part No.), Values, and Tolerances for various resistor types.

Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.
C256	RCBC1H101KBY	100P 50	C426	ECEA1HPS3R3	3.3 50	(EG)		
(EG)			C427	ECEA1HPS3R3	3.3 50	C600	ECEA1CKS100	10 16
C257	RCBC1H101KBY	100P 50	C428	ECEA1HPS3R3	3.3 50	C601	ECEA0JS102	1000 6.3
(EG)			C431	ECFTD683KXL	0.068 25	C602	ECKD1H223PF	0.022 50
C258	RCBC1H101KBY	100P 50	C432	ECEA1HK010	1 50	C603	ECEA1HK010	1 50
(EG)			C451	RCBC1H101KBY	100P 50	C604	ECFTD333KXL	0.033 25
C261	RCBC1H101KBY	100P 50	C452	RCBC1H101KBY	100P 50	C605	ECFTD683KXL	0.068 25
(EG)			C453	RCBC1H680JLY	68P 50	C606	ECEA1EK4R7	4.7 25
C262	RCBC1H101KBY	100P 50	C454	RCBC1H680JLY	68P 50	C607	ECEA1HK010	1 50
(EG)			C455	ECBT1H821KB5	820P 50	C608	ECBT1H102KB5	0.001 50
C263	RCBC1H101KBY	100P 50	C456	ECBT1H821KB5	820P 50	C609	ECBT1H102KB5	0.001 50
(EG)			C457	ECFTD123KXL	0.012 25	C610	ECEA1CKS100	10 16
C264	RCBC1H101KBY	100P 50	C458	ECFTD123KXL	0.012 25	C611	RCBC1H101KBY	100P 50
(EG)			C459	ECFTD683KXL	0.068 25	C612	RCBC1H101KBY	100P 50
C265	RCBC1H101KBY	100P 50	C460	ECFTD683KXL	0.068 25	C613	RCBS1H221KBY	220P 50
(EG)			C461	ECEA1HPS010	1 50	C614	RCBS1H221KBY	220P 50
C266	RCBC1H101KBY	100P 50	C462	ECEA1HPS010	1 50	C615	ECEA1VKA330	33 35
(EG)			C463	ECFTD472KXL	4700P 25	C616	ECEA1HK2R2B	2.2 50
C267	RCBC1H101KBY	100P 50	C464	ECFTD472KXL	4700P 25	C617	ECEA1HK2R2B	2.2 50
(EG)			C465	ECFTD223KXL	0.022 25	C618	ECKD1H223PF	0.022 50
C268	RCBC1H101KBY	100P 50	C466	ECFTD223KXL	0.022 25	C619	ECFTD103KXL	0.01 25
(EG)			C467	ECEA1HPS3R3	3.3 50	C620	ECKF1H103ZF	0.01 50
C269	RCBC1H101KBY	100P 50	C468	ECEA1HPS3R3	3.3 50	C621	ECKF1H103ZF	0.01 50
(EG)			C469	ECFTD103KXL	0.01 25	C622	ECKF1H103ZF	0.01 50
C270	RCBC1H101KBY	100P 50	C470	ECFTD103KXL	0.01 25	C623	ECKF1H103ZF	0.01 50
(EG)			C471	ECEA1CK470	47 16	C624	ECKF1H103ZF	0.01 50
C271	RCBC1H101KBY	100P 50	C501	ECEA1HPS3R3	3.3 50	C625	ECKF1H103ZF	0.01 50
(EG)			C502	ECEA1HPS3R3	3.3 50	C626	ECKD1H473ZF	0.047 50
C272	RCBC1H101KBY	100P 50	C503	ECBT1H821KB5	820P 50	C627	ECKF1H103ZF	0.01 50
(EG)			C504	ECBT1H821KB5	820P 50	C628	ECKF1H103ZF	0.01 50
C307	RCBC1H680JLY	68P 50	C505	ECEA1CPS220	22 16	C629	ECKD1H102KB	1000P 50
C308	ECFTD623KXL	0.082 25	C506	ECEA1CPS220	22 16	C630	ECKF1H103ZF	0.01 50
C309	ECEA1EK3R3B	3.3 25	C507	RCBS1H6R8KLY	6.8P 50	C631	ECKF1H103ZF	0.01 50
C310	RCBS1H221KBY	220P 50	C508	RCBS1H6R8KLY	6.8P 50	C632	ECKF1H103ZF	0.01 50
C311	ECEA1EK3R3B	3.3 25	C509	RCBC1H151KBY	150P 50	C697	ECQV1H474JZ3	0.47 50
C313	RCBS1H820KBY	82P 50	(E, E5, EB)			C698	RCBS1H221KBY	220P 50
C314	RCBS1H820KBY	82P 50	C509	RCBS1H271KBY	270P 50	C699	RCBS1H221KBY	220P 50
C315	ECEA1HPS3R3	3.3 50	(EG)			C700	ECKDKC103PF2	0.01 125
C316	ECEA1HPS3R3	3.3 50	C510	RCBC1H151KBY	150P 50	C701	ECES1JU682U	6800 63
C318	ECKD1H223PF	0.022 50	(E, E5, EB)			C702	ECES1JU682U	6800 63
C351	ECBT1E103ZF	0.01 25	C510	RCBS1H271KBY	270P 50	C703	ECFTD103KXL	0.01 25
C352	ECBT1E103ZF	0.01 25	(EG)			C704	ECFTD103KXL	0.01 25
C353	RCBS1H330JLY	33P 50	C511	ECFTD473KXL	0.047 25	C705	ECEA1CU470	47 16
C354	RCBS1H330JLY	33P 50	C512	ECFTD473KXL	0.047 25	C706	ECEA1CU470	47 16
C355	ECEA1HPS3R3	3.3 50	C513	ECEA0JS331	330 6.3	C707	ECEA1CK220	22 16
C356	ECEA1HPS3R3	3.3 50	C514	ECEA1HKR22	0.22 50	C708	ECEA1CK220	22 16
C357	ECEA1HPS3R3	3.3 50	C515	ECEA0JK330	33 6.3	C709	ECQEZ104KS	0.1 250
C358	ECEA1HPS3R3	3.3 50	C516	ECFTD103KXL	0.01 25	C710	ECEA1HK4R7	4.7 50
C359	RCBS1H330JLY	33P 50	(EG)			C711	ECEA1VK100B	10 35
C360	RCBS1H330JLY	33P 50	C517	ECEA2AN2R2SB	2.2 100	C712	ECEA1VK330	33 35
C361	ECEA1HPS3R3	3.3 50	(EG)			C714	ECEA1HK010	1 50
C362	ECEA1HPS3R3	3.3 50	C518	ECEA1CKS100	10 16	C715	ECFTD473KXL	0.047 25
C363	ECEA1HPS3R3	3.3 50	C519	ECEA1CK470	47 16	(EG)		
C364	ECEA1HPS3R3	3.3 50	C520	ECEA1CK101	100 16	C716	ECFTD103KXL	0.01 25
C365	ECEA1CK220	22 16	C521	ECFTD473KXL	0.047 25	(EG)		
C367	ECEA1CK220	22 16	C522	ECFTD473KXL	0.047 25	C801	RCBS1H271KBY	270P 50
C369	ECEA1CKS100	10 16	C523	ECKD1H102KB	1000P 50	C802	RCBS1H271KBY	270P 50
C370	ECEA1CKS100	10 16	C524	ECKD1H102KB	1000P 50	C803	ECEA0JK101	100 6.3
C373	RCBS1H820KBY	82P 50	C561	ECKD1H102KB	1000P 50	C804	ECEA0JK101	100 6.3
(EG)			(EG)			C805	ECEA0JK101	100 6.3
C374	RCBS1H820KBY	82P 50	C562	ECKD1H102KB	1000P 50	C806	ECEA0JK101	100 6.3
(EG)			(EG)			C807	ECFD1H104ZF	0.1 50
C401	ECEA1EK3R3B	3.3 25	C563	ECKD1H223PF	0.022 50	C808	ECEA0JK101	100 6.3
C402	ECEA1EK3R3B	3.3 25	(EG)			C809	ECFD1H104ZF	0.1 50
C409	RCBC1H101KBY	100P 50	C564	ECKD1H223PF	0.022 50	C810	ECQM1H103JZ	0.01 50
C410	RCBC1H101KBY	100P 50	(EG)			C811	RCBS1H100JLY	10P 50
C411	RCBS1H100JLY	10P 50	C565	ECKD1H102KB	1000P 50	C812	RCBS1H100JLY	10P 50
C412	RCBS1H100JLY	10P 50	(EG)			C813	ECEA1EK4R7	4.7 25
C413	ECEA1HK2R2B	2.2 50	C566	ECKD1H102KB	1000P 50	C814	ECFD1H104ZF	0.1 50
C414	ECEA1HK2R2B	2.2 50	(EG)			C815	ECEA0JK101	100 6.3
C419	ECFTD473KXL	0.047 25	C567	ECKD1H223PF	0.022 50	C816	RCBS1H6R8KLY	6.8P 50
C420	ECFTD473KXL	0.047 25	(EG)			C817	ECFD1H104ZF	0.1 50
C421	ECEA1HK2R2B	2.2 50	C568	ECKD1H223PF	0.022 50	C819	ECEA0JK470	47 6.3
C422	ECEA1HK2R2B	2.2 50	(EG)			C820	ECEA0JK101	100 6.3
C423	ECEA1HPS3R3	3.3 50	C597	ECKD1H221KB	220P 50	C821	ECEA0JK470	47 6.3
C424	ECEA1HPS3R3	3.3 50	(EG)			C822	ECEA0JK470	47 6.3
C425	ECEA1HPS3R3	3.3 50	C598	ECKD1H221KB	220P 50	C823	ECEA1CKN100B	10 16

Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.
C824	ECEA1EK4R7	4.7 25	C826	ECEA1EKN4R7		C828	ECBT1H102KB5	0.001 50
C825	ECEA1EKN4R7		C827	ECBT1H102KB5	0.001 50	C829	ECBT1E223ZF	0.022 25
						C830	ECBT1E223ZF	0.022 25
						C831	ECFD1H104ZF	0.1 50

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.

* 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
INTEGRATED CIRCUITS			Q409	DTA114ESTP	TRANSISTOR
IC101	AN6558F	I.C. PHONO EQ AMP	Q501	2SA992E	TRANSISTOR
IC200	TC4066BF	I.C. CD INPUT SELECTOR	Q502	2SC3311A-Q	TRANSISTOR
IC201	TC9164N	I.C. INPUT SELECTOR	Q503	2SA1309AQS	TRANSISTOR
IC301	M5238P	I.C. PHASE SHIFT	Q601	UN4111	TRANSISTOR
IC302	AN6554F	I.C. MIXING AMP	Q602	UN4111	TRANSISTOR
IC303	AN6558F	I.C. BUFFER AMP	Q603	UN4211	TRANSISTOR
IC304	AN6557F	I.C. BUFFER AMP	Q604	2SC3311A-Q	TRANSISTOR
IC305	AN6557F	I.C. MIXING AMP	Q611	UN4211	TRANSISTOR
IC306	M51131L-702	I.C. ATTENUATOR	Q612	UN4211	TRANSISTOR
IC307	M51131L-702	I.C. ATTENUATOR	Q613	UN4211	TRANSISTOR
IC402	AN6554F	I.C. PRE AMP	Q614	UN4211	TRANSISTOR
IC403	AN6558F	I.C. TONE AMP	Q615	UN4211	TRANSISTOR
IC501	SV13204	I.C. POWER AMP	Q616	UN4211	TRANSISTOR
IC601	M50754-411SP	I.C. MICRO COMPUTER	Q617	UN4211	TRANSISTOR
IC602	MN4030B	I.C. LOGIC	Q618	UN4111	TRANSISTOR
IC603	MN4013B	I.C. LOGIC	Q619	UN4111	TRANSISTOR
IC604	AN6552F	I.C. BUFFER AMP	Q621	2SC3311A-Q	TRANSISTOR
IC701	AN78M05R	I.C. REGULATOR	Q622	UN4211	TRANSISTOR
IC801	SV1TORX172	I.C. OPTICAL REC.	Q701	2SD1265-P	TRANSISTOR
IC802	SV1TORX172	I.C. OPTICAL REC.	Q702	2SB941PQR	TRANSISTOR
IC803	TC74HC004AF	I.C. INVERTER	Q703	UN4211	TRANSISTOR
IC804	TC74HC4053AF	I.C. DIGITAL INPUT	Q704	2SB621A-R	TRANSISTOR
IC805	YM3623B	I.C. DIGITAL SIGNAL	Q705	2SD1265-P	TRANSISTOR
IC806	YM3404B	I.C. DIGITAL FILTER	Q801	UN4211	TRANSISTOR
IC807	PCM56P-L	I.C. D/A CONVERTER	Q802	2SB1030Q	TRANSISTOR
IC808	PCM56P-L	I.C. D/A CONVERTER	Q803	2SC3311A-Q	TRANSISTOR
IC809	TC74HC164AF	I.C. 8BIT SHIFT RESISTOR	Q804	2SC3311A-Q	TRANSISTOR
IC810	TC74HC164AF	I.C. 8BIT SHIFT RESISTOR	Q805	2SD1450R	TRANSISTOR
IC811	TC74HC00AF	I.C. NAND GATE	Q806	2SD1450R	TRANSISTOR
IC812	MN6636S	I.C. DEGLITCH	Q807	UN4111	TRANSISTOR
IC813	LM833MG3	I.C. BUFFER AMP	Q808	UN4111	TRANSISTOR
IC814	SV1BA4560F	I.C. BUFFER AMP	Q809	UN4211	TRANSISTOR
IC815	SV1H8DN2041B	I.C. LOW PASS FILTER	Q810	UN4211	TRANSISTOR
IC816	SV1H8DN2041B	I.C. LOW PASS FILTER	Q811	2SA1309A-R	TRANSISTOR
IC817	DN74LS145S	I.C. LED DRIVE	Q812	2SA1309A-R	TRANSISTOR
IC818	TC74HC123AF	I.C. MULTIVIBRATOR	DIODES		
TRANSISTORS			D201	MA4051-M	DIODE
Q200	2SC3311A-Q	TRANSISTOR	D203	MA4082	DIODE
Q201	2SC3311A-Q	TRANSISTOR	D204	MA4082	DIODE
Q202	2SC3311A-Q	TRANSISTOR	D403	MA165	DIODE
Q203	DTA114ESTP	TRANSISTOR	D405	MA165	DIODE
Q301	2SD1450R	TRANSISTOR	D502	MA4120	DIODE
Q303	DTA114ESTP	TRANSISTOR	D503	MA4120	DIODE
Q401	2SD1450R	TRANSISTOR	D505	MA167	DIODE
Q402	2SD1450R	TRANSISTOR	D506	MA167	DIODE
Q403	DTA114ESTP	TRANSISTOR	D507	MA165	DIODE
Q404	2SD1450R	TRANSISTOR	D511	MA167	DIODE
Q405	2SD1450R	TRANSISTOR	D512	MA167	DIODE
Q406	DTA114ESTP	TRANSISTOR	D601	MA165	DIODE
Q407	2SC3311A-Q	TRANSISTOR	D602	MA165	DIODE
Q408	2SC3311A-Q	TRANSISTOR	D603	MA165	DIODE
			D605	MA165	DIODE

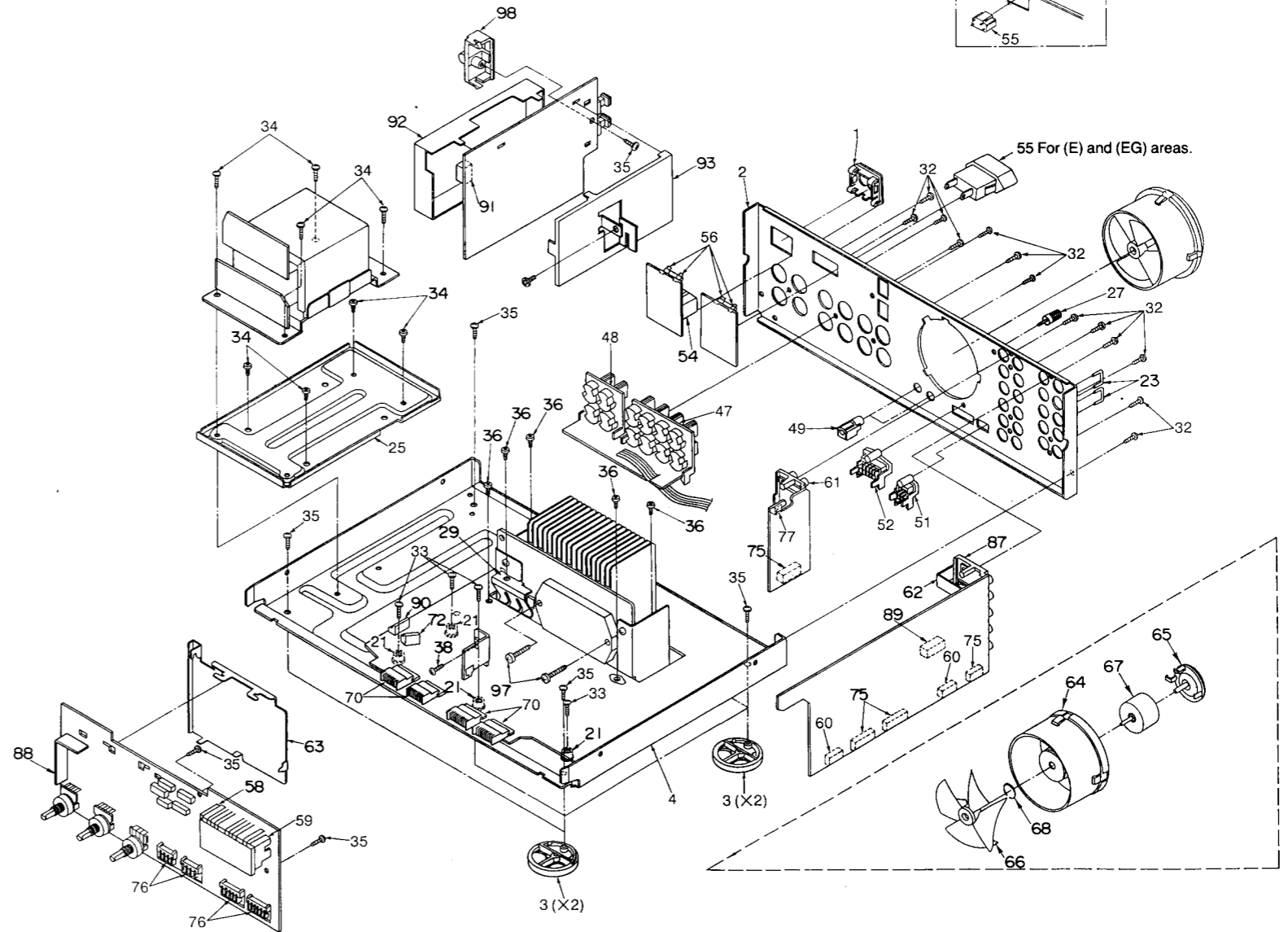
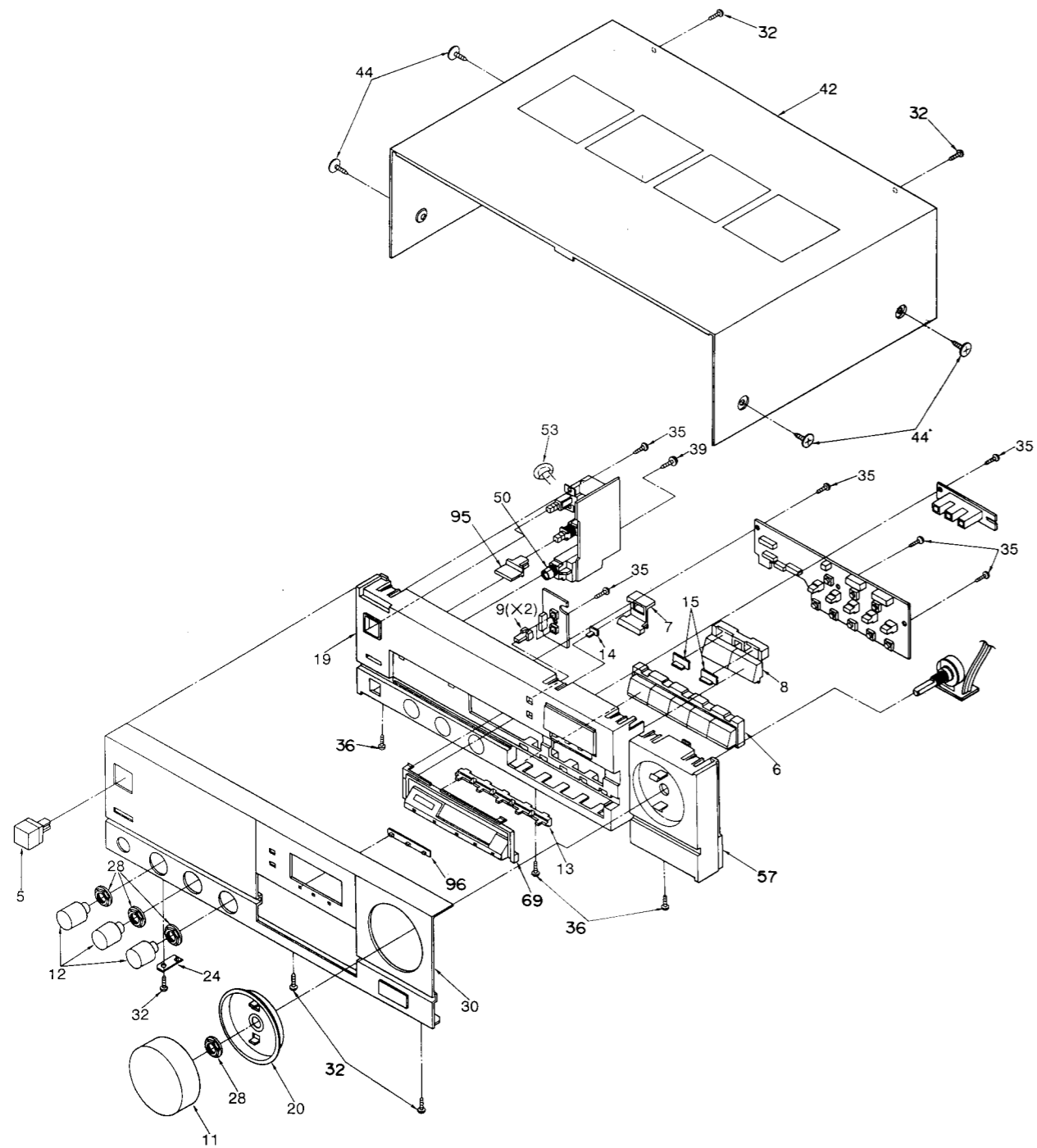
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D606	MA165	DIODE	VR402	EWC2XAF20C15	V.R. TREBLE
D607	MA165	DIODE	VR403	EWHFDAF20G15	V.R. BALANCE
D608	MA700A	DIODE	VR601	EVQWX2F2045B	V.R., VOLUME ENCODER
D609	MA700A	DIODE	COILS AND TRANSFORMERS		
D610	MA700A	DIODE	L301	RLQZP100KT-Y	COIL
D611	MA165	DIODE	L501	SLQY07G-40	CHOKE COIL
D612	MA165	DIODE	L502	SLQY07G-40	CHOKE COIL
D613	MA165	DIODE	L505	SLQY07G-40	CHOKE COIL
D615	MA165	DIODE	(EG)		
D616	MA165	DIODE	L506	SLQY07G-40	CHOKE COIL
D617	MA165	DIODE	(EG)		
D618	MA4082	DIODE	L507	SLQY07G-40	CHOKE COIL
D619	MA165	DIODE	(EG)		
D620	MA165	DIODE	L508	SLQY07G-40	CHOKE COIL
D621	MA165	DIODE	(EG)		
D622	MA165	DIODE	L601	RLQZP101KT-Y	COIL
D623	MA165	DIODE	L603	ELEXT330KA9	COIL
D624	MA165	DIODE	L604	ELEXT330KA9	COIL
D625	MA165	DIODE	L605	ELEPK1R2MA	COIL
D626	MA165	DIODE	L609	ELEXT330KA9	COIL
D627	MA165	DIODE	L610	RLQZP1R2KT-Y	CHOKE COIL
D631	LN846RP-C	L.E.D	L801	RLQZP101KT-Y	COIL
D632	LN846RP-C	L.E.D	L802	RLQZP101KT-Y	COIL
D633	LN846RP-C	L.E.D	L803	ELEXT470KA9	COIL
D634	LN0202RP2	DIODE	L804	ELEXT470KA9	COIL
D635	LN0202RP2	DIODE	L805	ELEXT470KA9	COIL
D636	LN846RP-C	L.E.D	L806	RLQZP101KT-Y	COIL
D637	LN846RP-C	L.E.D	T700	SLT5N484-W	POWER TRANSFORMER
D638	LN873RP-LS	DIODE	(EB)		
D641	MA165	DIODE	T700	SLT5N485-W	POWER TRANSFORMER
D642	MA165	DIODE	(E, ES, EG)		
D643	MA165	DIODE	COMPONENT COMBINATIONS		
D644	MA165	DIODE	Z601	EXFP5331MW	COMBINATION PART
D645	MA165	DIODE	Z602	EXFP7331MW	COMBINATION PART
D646	MA165	DIODE	Z603	EXBF5E103J	COMBINATION PART
D647	MA165	DIODE	Z604	EXBF8E103J	COMBINATION PART
D648	MA165	DIODE	Z801	EXCEMT103DC	COMBINATION COM
D649	MA165	DIODE	Z802	EXCEMT103DC	COMBINATION COM
D701	△ SVDS3V40	DIODE	Z803	EXCEMT103DC	COMBINATION COM
D702	△ SVDS3V40	DIODE	DISPLAYS		
D703	△ SVDS3V40	DIODE	FL1	SADFV217	DISPLAY TUBE
D704	△ SVDS3V40	DIODE	FUSES		
D705	MA4140-M	DIODE	F1	△ XBA2C16TB0	FUSE 250V, A1.6A
D706	MA4140-M	DIODE	F2	△ XBA2C20TB0	FUSE 250V, T2A
D707	MA29WA	DIODE	(E, ES, EG)		
D709	MA167	DIODE	SWITCHES		
D710	MA167	DIODE	S201	SSS153	SW, CD INPUT SELECTOR
D711	MA165	DIODE	S501	SSH1073	SW, SPEAKER
D714	MA4300M	DIODE	S601	EVQQB005R	SW, PHONO
D801	MA165	DIODE	S602	EVQQB005R	SW, TUNER
D802	MA165	DIODE	S603	EVQQB005R	SW, CD
D803	MA165	DIODE	S604	EVQQB005R	SW, TAPE 1
D804	MA165	DIODE	S605	EVQQB005R	SW, TAPE 2
D805	MA700	DIODE	S606	EVQQB005R	SW, AUX
D806	MA165	DIODE	S607	EVQQB005R	SW, DAT
D807	MA4051-M	DIODE	S608	EVQQB005R	SW, MUTING
D808	MA4051-M	DIODE	S609	EVQQLY07K	SW, SURROUND
D809	MA4051-M	DIODE	S610	EVQQLY07K	SW, S.BASS
D810	MA29WA	DIODE	S700	△ SSH1071	SW, POWER
D811	MA165	DIODE	RELAYS		
D812	MA165	DIODE	RL501	△ SSY134	RELAY
D813	MA165	DIODE	OTHERS		
D820	LN038417P1	DIODE	X601	EF0FC4004A4	CERAMIC FILTER
D821	LN038417P1	DIODE	X801	SVQAT1923-S	CRYSTAL OSCILLATOR
D822	LN038417P1	DIODE	VARIABLE RESISTORS		
VR401	EWC2XAF20C15	V.R. BASS			

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
CABINET AND CHASSIS			52	SJS804	SOCKET(8P), DECK
1	SJS9231A	AC INLET COVER	53	SMX897	COVER(CAPACITOR)
2	SGP7170-12A	REAR PANEL	54	△ SJS9231-1B	AC INLET
[E]			55	△ SJS9225	AC OUTLET
2	SGP7170-12B	REAR PANEL	[E, E5, EG]		
[EG]			55	△ SJS9332B	AC OUTLET
2	SGP7170-12G	REAR PANEL	(EB)		
[E5]			56	△ SJT388	FUSE HOLDER
2	SGP7170-13A	REAR PANEL	57	SGXUX950-KE2	FRONT GRILLE
[EB]			58	SMN2056-1	BRACKET
3	SKL307	FOOT	59	SMN2056	BRACKET
4	SKU11650-3	BOTTOM BOARD	60	SMN2043	ANGLE
5	SBC666-1	BUTTON, POWER	61	SJF3062-13N	TERMINAL BOARD
6	SBC983B	BUTTON, SELECTOR	62	SMC6453	SHIELD PLATE
7	SBC1023	BUTTON, MUTING	63	SMC6441	SHIELD PLATE
8	SBC1024-1A	BUTTON, DIGITAL	64	SHE233	FAN CASE
9	SBC1025	BUTTON, BASS	65	SHE234	CAP
11	SBN1224	KNOB, VOLUME	66	SHE232	FAN
12	RGW0016	KNOB, TONE	67	MDN-4RB4MXA	MOTOR
13	SDL97	SMOKE PLATE	68	SUS271	SPRING
14	SDL98	SMOKE PLATE	69	SGX7977-1A	ORNAMENT
15	SDL99	SMOKE PLATE	70	SJS50680WL	SOCKET(6P), J603, J604
19	SGXUX950-KE1	FRONT GRILLE	70	SJS51080WL	SOCKET(10P), J601, J602
20	SGX9036	ORNAMENT	72	SJT30543-V	CONNECTOR(5P), J700
21	SHE187-2	HOLDER	75	SJT30439MB	CONNECTOR(4P), J201B
23	SJP9205-2Y	SHORTING PIN	75	SJT30839MB	CONNECTOR(8P), J204B
24	SMC1274	BRACKET	75	SJT30939MB	CONNECTOR(9P), J202B
25	SMN2078-2	BRACKET	75	SJT31239MB	CONNECTOR(12P), J206B
27	SNE2123	SCREW	76	SJT30647WL	CONNECTOR(6P), J603B, J604B
28	SNE4021-1	NUT	76	SJT31047WL	CONNECTOR(10P), J601B, J602B
29	SUS822	COIL SPRING	77	SJT3213	CONNECTOR(2P), J207B
30	RYP0064	FRONT PANEL ASS'Y	82	SJS9332A	AC OUTLET COVER
32	XTBS3+8JFZ1	SCREW	[EB]		
33	XTB3+2DJ	SCREW	87	SJF3062-22N	TERMINAL BOARD, INPUT
34	XTB3+6FFZ	SCREW	88	SMC1297	SHIELD COVER
35	XTB3+8G	SCREW	89	SJT3709	CONNECTOR(7P), J200B
36	XTB3+8J	SCREW	90	SJT30740LX-V	CONNECTOR(7P), J501
38	XTW3+8T	SCREW	91	SJT3613	CONNECTOR(6P), J801D
42	SKC2071K163	CABINET	92	RSC0033	COVER
44	SNE2129-1	SCREW	93	RSC0034	COVER
47	SJF4818-1	TERMINAL BOARD, SP A	95	SBC928	BUTTON, SP
48	SJF4442-1	TERMINAL BOARD, SP B	96	SDL100	SMOKE SLATE
49	SJJ141	M3 JACK	97	XTB3+16J	SCREW
50	SJJ71E	JACK, HEAD PHONE	98	SGX7967	ORNAMENT
51	SJS306	SOCKET(3P), TUNER	99	SJT783	TERMINAL
			100	SJS5215	CONNECTOR(2P)

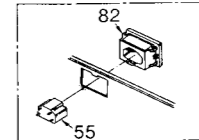
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
PACKING MATERIAL			ACCESSORIES		
P1	RP00069	PACKING CASE	A1	RQF0048	INSTRUCTION MANUAL
P2	SPP753	PROTECTION COVER	[E, E5]		
P4	SPS5182	PAD	A1	RQF0049	INSTRUCTION MANUAL
P5	SPS5183	PAD	(EB)		
P6	SPS5184	PAD	A1	RQF0051	INSTRUCTION MANUAL
P7	SPB1061	PROTECTION COVER	[EG]		
P8	XZB10X30A02	PROTECTION COVER	A3	△ SFDAC05E03	POWER CORD
			[E, E5, EG]		
			A3	△ SJA188	POWER CORD
			[EB]		

EXPLODED VIEW

(Parts list on page 32)



•For (EB) only.



55 For (E) and (EG) areas.