

Service Manual

Amplifier

SU-A40

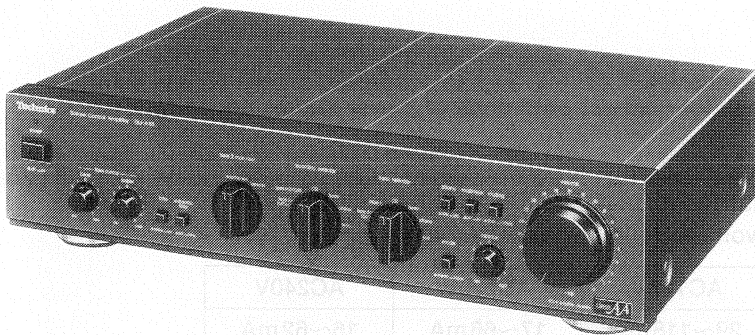
Stereo Control Amplifier

Color

(K)... Black Type

Area

Country Code	Area	Color
(E)	Continental Europe.	(K)
(EB)	Great Britain.	(K)
(EG)	F.R. Germany and Italy.	(K)
(GC)	Third Region.	(K)
(GL)	Australia.	(K)



SPECIFICATIONS (DIN 45 500)

■ PRE AMP. SECTION

Input sensitivity and impedance

PHONO MM	2.5mV/47kΩ
PHONO MC	170μV/220Ω
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT, TAPE 3/EXT	150mV/18kΩ

PHONO maximum input voltage

(IHF '66, 1kHz, RMS)

MM	170mV
MC	13mV

S/N

PHONO MM	79dB (88dB, IHF, A)
PHONO MC	70dB (72dB, 250μV, IHF, A)
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT, TAPE 3/EXT	92dB (IHF, A: 106dB)

Frequency response

PHONO MM	RIAA standard curve ±0.2dB (20Hz~20kHz)
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TUNER, CD, AUX, TAPE 1, TAPE 2/DAT, TAPE 3/EXT	0.8Hz~150kHz (-3dB) +0, -0.1dB (20Hz~20kHz)
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Tone controls

BASS	50Hz, +10dB, -10dB
TREBLE	20kHz, +10dB, -10dB

Subsonic filter

20Hz, -6dB/oct.

Loudness control (volume at -30dB)

50Hz, +9dB

Muting

-20dB

Output voltage and impedance

PRE OUT	rated 1V max. 8V
TAPE 1, TAPE 2/DAT, TAPE 3/EXT REC OUT	150mV

Channel balance, AUX 250Hz~6,300Hz	±1dB
Channel separation, AUX 1kHz	55dB

Total harmonic distortion (20Hz~20kHz)

PHONO MM	0.002%
PHONO MC	0.003%
TUNER, CD, AUX, TAPE 1, TAPE 2/DAT, TAPE 3/EXT (Vol. max.)	0.002%

■ GENERAL

Power consumption 8 W

Power supply

For Continental Europe and F.R. Germany	AC 50Hz/60Hz, 220 V
For Great Britain, Australia and others	AC 50Hz/60Hz, 110V/127V/220V/240 V

Dimensions (W × H × D) 430 × 103 × 290mm

(16-15/16" × 4-1/16" × 11-6/16")

Weight

4.0kg (8.8lb.)

Notes:

- Specifications are subject to change without notice for further improvement.
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

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BEFORE REPAIR

- (1) Turn off the power supply. Using a 10Ω, 5W resistor connect both ends of power supply capacitors (C501, C502, 3300μF) 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	33~132mA	29~118mA	17~66mA	16~62mA
Consumed current 60Hz	30~120mA	27~110mA	15~60mA	14~56mA

PROTECTION CIRCUITRY

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

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

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

If this occurs, follow the procedure outlined below:

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

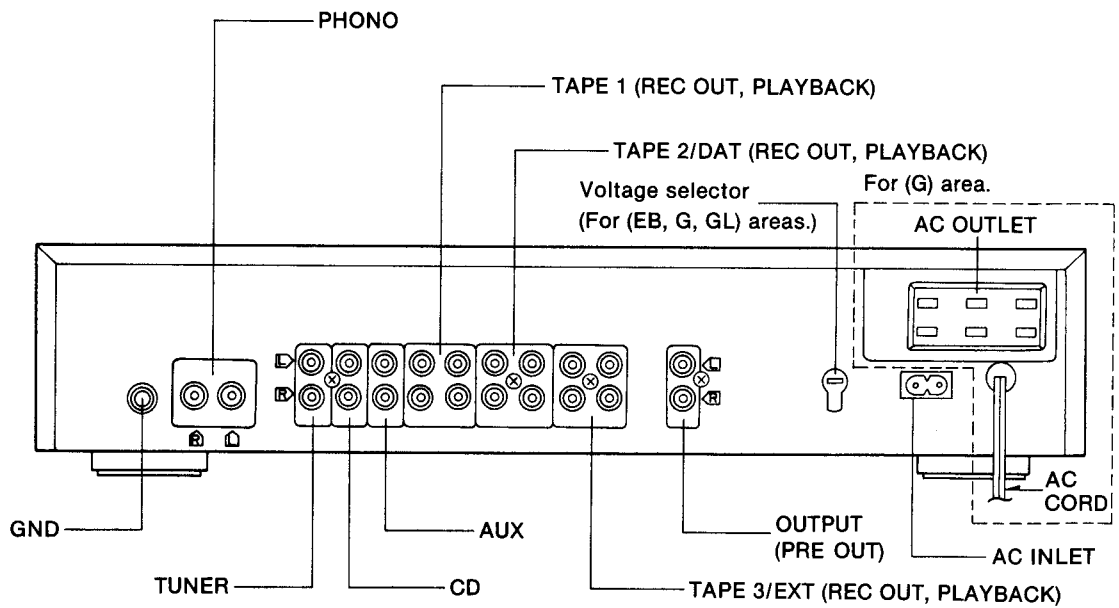
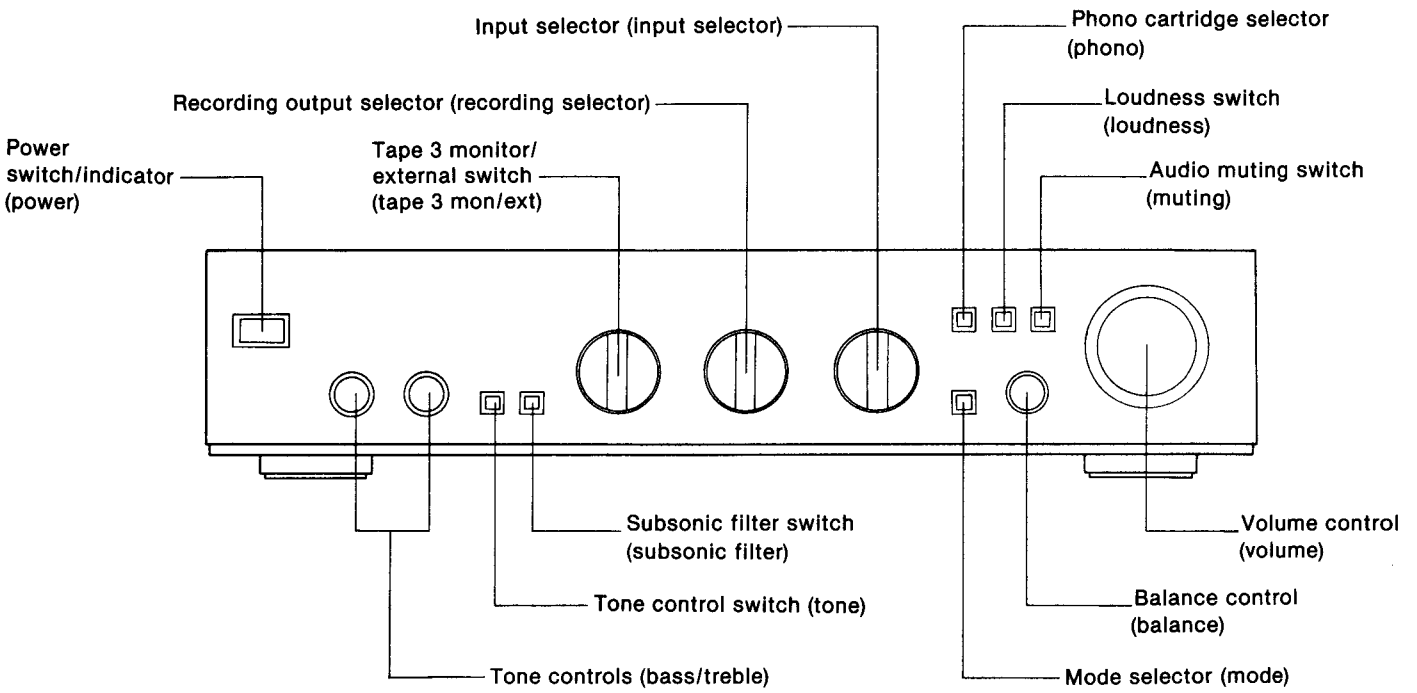
Note:

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

ACCESSORIES

- | | | | |
|---------------------------------|---|------------------------------|-----------|
| • Stereo connection cable | 1 | • AC power supply cord | 1 |
| (SJPD18) | | SJA193 | (EB) |
| | | SJA173 | (GL) |
| | | SFDAC05E03 | (E), (EG) |

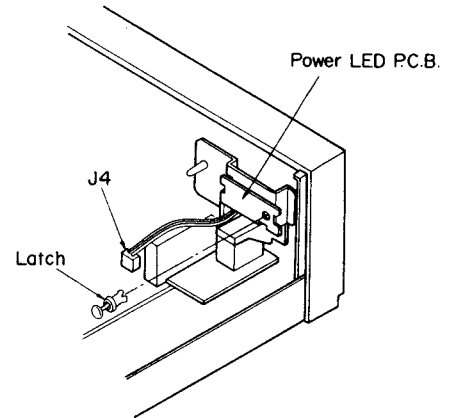
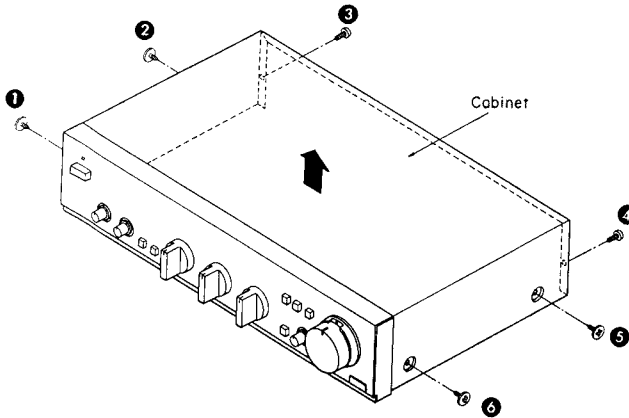
■ LOCATION OF CONTROLS



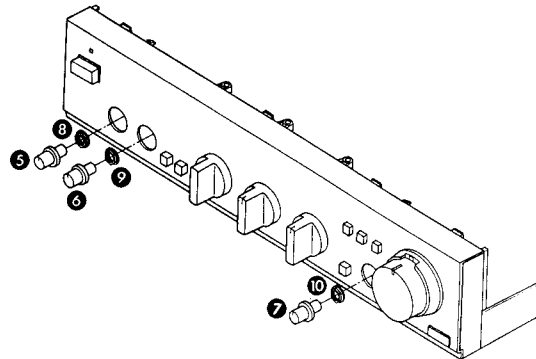
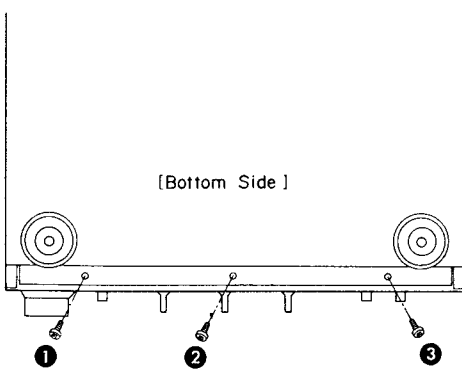
Note: Phono input capacitance is about 250pF (EG area only)
 Phono input capacitance is about 150pF (Other area)

DISASSEMBLY INSTRUCTIONS

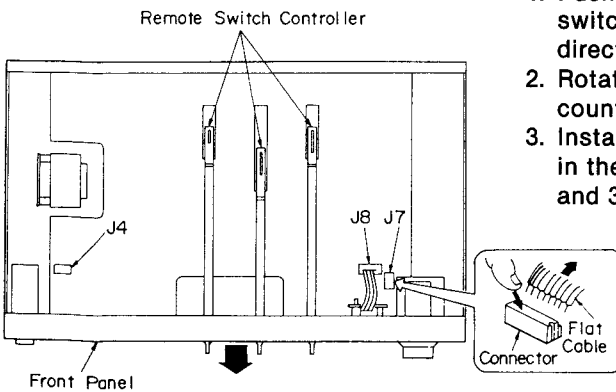
Ref. No. 1	Removal of the cabinet	Ref. No. 2	Removal of the power LED P.C.B.
Procedure 1	<ul style="list-style-type: none"> Remove the 6 screws (①~⑥). 	Procedure 1→2	<ol style="list-style-type: none"> Remove the latch. Remove the 1 connector (J4).



Ref. No. 3	Removal of the front panel		
Procedure 1→3	<ol style="list-style-type: none"> Remove the 3 screws (①~③). 	<ol style="list-style-type: none"> Pull out the 3 knobs (⑤~⑦). Remove the 3 nuts (⑧~⑩). 	<p>A: 11mm B: 16mm C: longer than 18mm</p> <ul style="list-style-type: none"> Use a wrench of the dimensions shown in the illustration above to remove nuts.



- Remove the 1 connector (J4).
- Remove the 2 flat cables (J7, J8).
- Remove the remote switch controller.

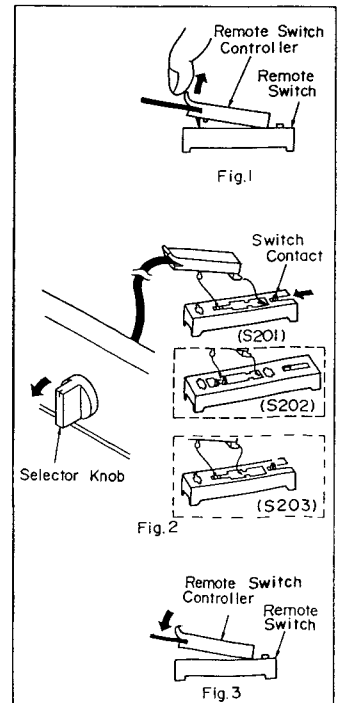


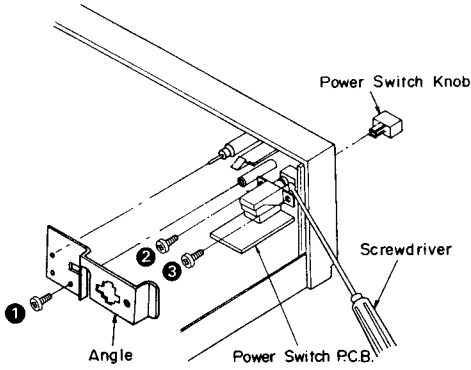
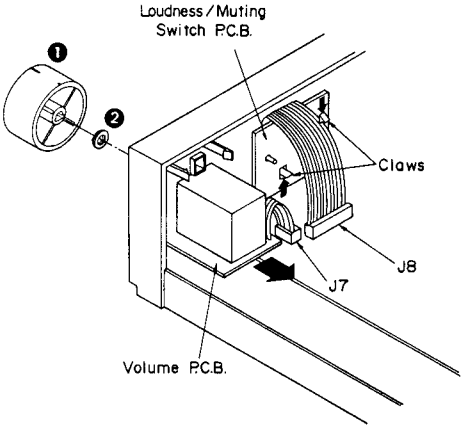
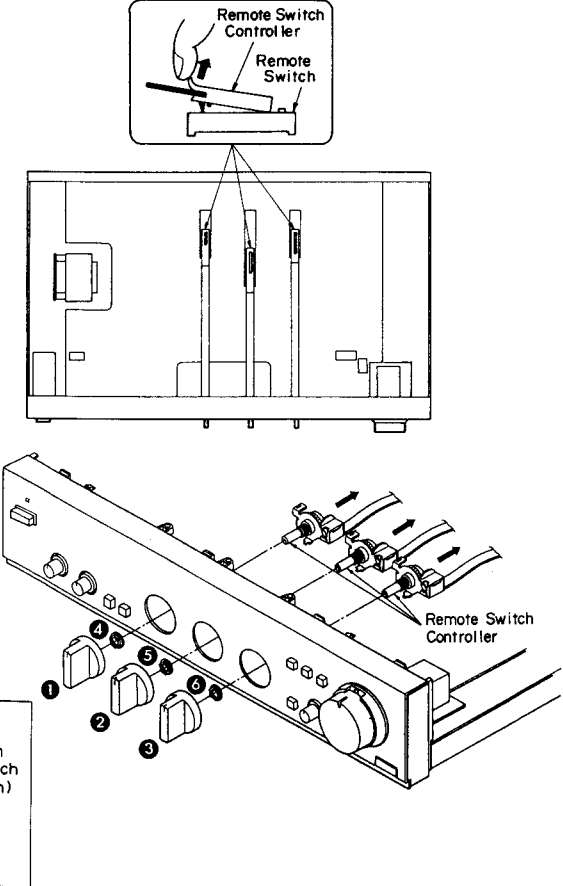
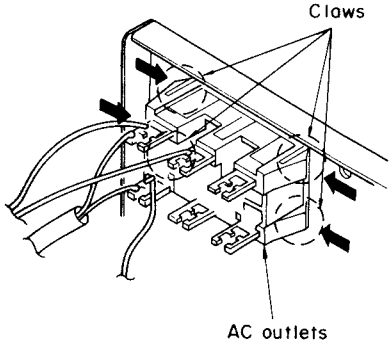
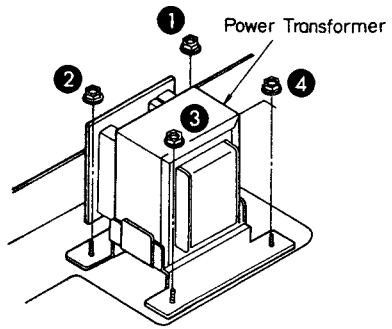
How to remove the remote switch controller

- Pull up the remote switch controller in the direction of the arrow as shown in figure 1 and then remove it.

How to replace the remote switch controller

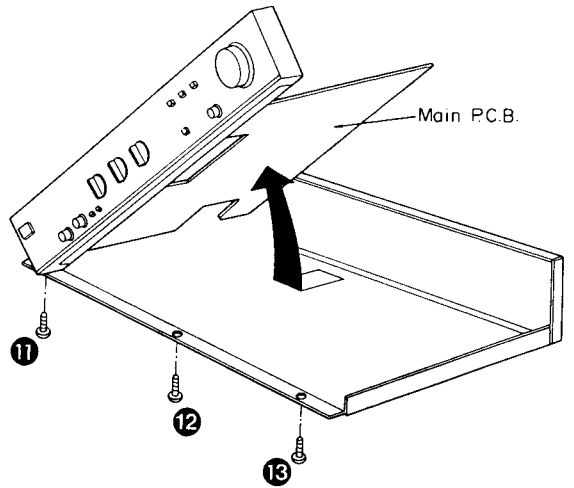
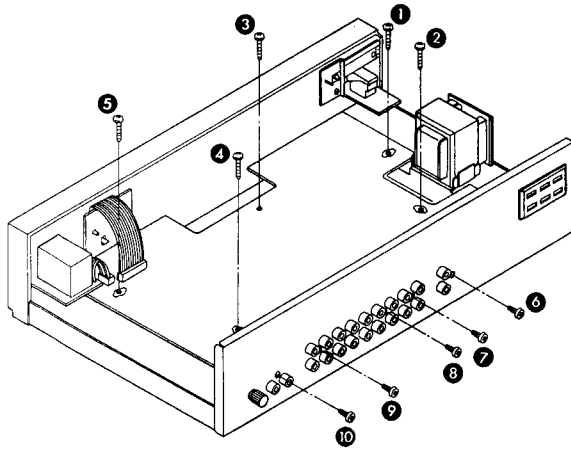
- Push the switch contact (on remote switch S201, S203 or S202) in the direction of the arrow (see Fig. 2).
- Rotate the selector knob counterclockwise.
- Install the remote switch controller in the remote switch (see Figs. 2 and 3).



<p>Ref. No. 4</p>	<p>Removal of the power switch P.C.B.</p>	<p>Ref. No. 5</p>	<p>Removal of the volume P.C.B. and loudness/muting switch P.C.B.</p>
<p>Procedure 1→2→4</p>	<ol style="list-style-type: none"> 1. Remove the 1 screw (①). 2. Remove the angle. 3. Remove the power switch knob by pushing it from behind the front panel. 4. Remove the 2 screws (②, ③). 	<p>Procedure 1→5</p> <ul style="list-style-type: none"> • Removal of the volume P.C.B. <ol style="list-style-type: none"> 1. Remove the 1 flat cable (J7). 2. Pull out the knob (①). 3. Remove the nut (②). <ul style="list-style-type: none"> • Removal of the loudness/muting switch P.C.B. <ol style="list-style-type: none"> 1. Remove the 1 flat cable (J8). 2. Release the 2 claws. 	
<p>Ref. No. 6</p>	<p>Removal of the remote switch controller</p>	<p>Ref. No. 7</p>	<p>Removal of the AC outlets</p>
<p>Procedure 1→6</p> <ol style="list-style-type: none"> 1. Remove the remote switch controller. 2. Loosen the screws set in the selector dials by using a allen wrench and remove the 3 selector dials (①~③). 3. Remove the 3 nuts (④~⑥). 4. Remove the remote switch controller in the direction of the arrow. 	<p>Procedure 1→7</p> <ul style="list-style-type: none"> • Push the 4 claws. 	<p>Ref. No. 8</p>	<p>Removal of the power transformer</p>
<p>Procedure 1→8</p>	<ul style="list-style-type: none"> • Remove the 4 nuts (①~④). 		

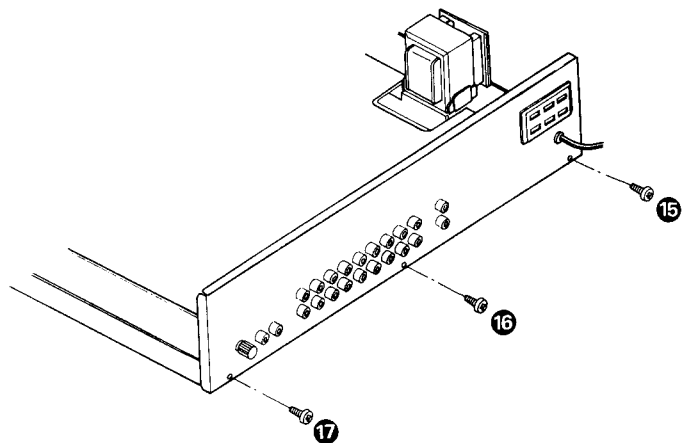
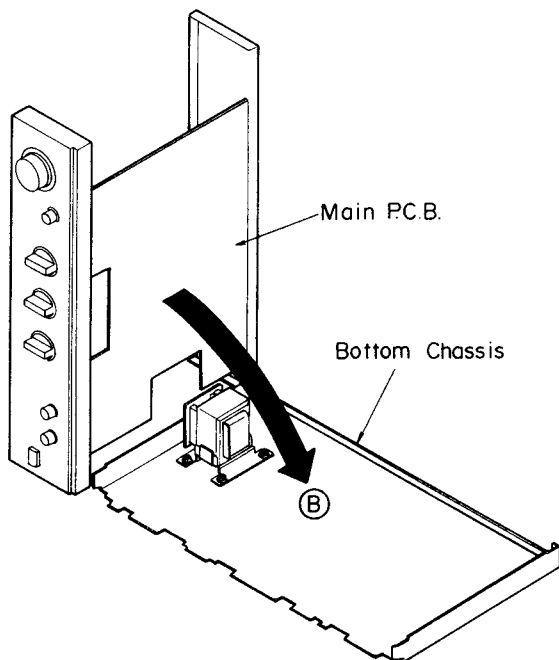
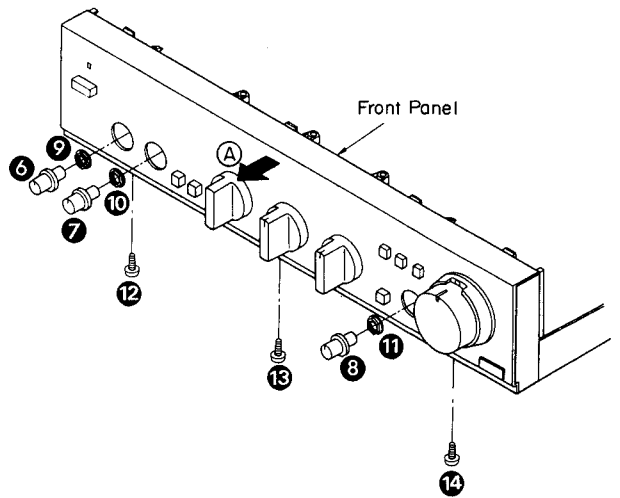
Ref. No. 9	Removal of the main P.C.B.
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Procedure 1→9	<ol style="list-style-type: none"> 1. Remove the 13 screws (①~⑬). 2. Remove the main P.C.B. in the direction of the arrow.
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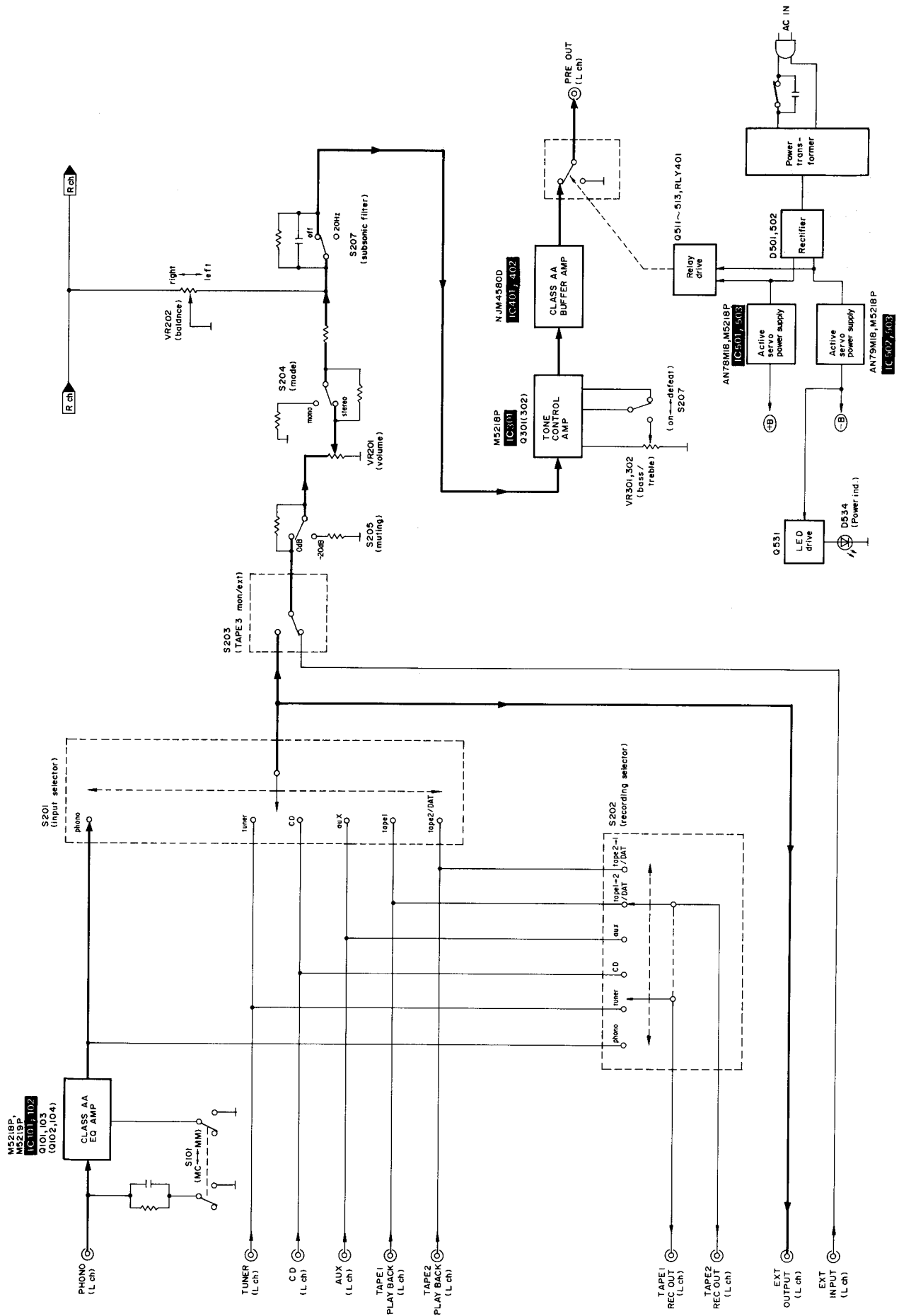


How to check the main P.C.B.

1. Remove the 5 screws (①~⑤) in above figure.
2. Remove the 3 knobs (⑥~⑧) and 3 nuts (⑨~⑪).
3. Remove the 6 screws (⑫~⑰).
4. Pull out the front panel in the direction of the arrow A.
5. Remove the bottom chassis in the direction of the arrow B.
6. Reinstall the front panel to the main P.C.B.
7. Reinstall the 3 knobs and 3 nuts to the front panel.



BLOCK DIAGRAM


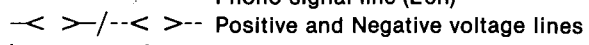


Note: → PHONO signal

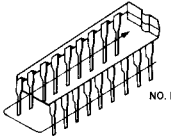
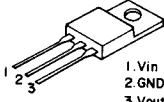
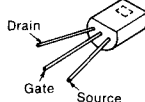
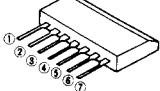
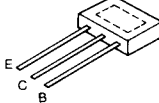
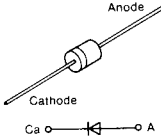

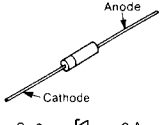

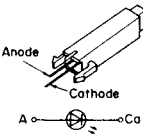

■ SCHEMATIC DIAGRAM (Parts list on pages 19~22.)

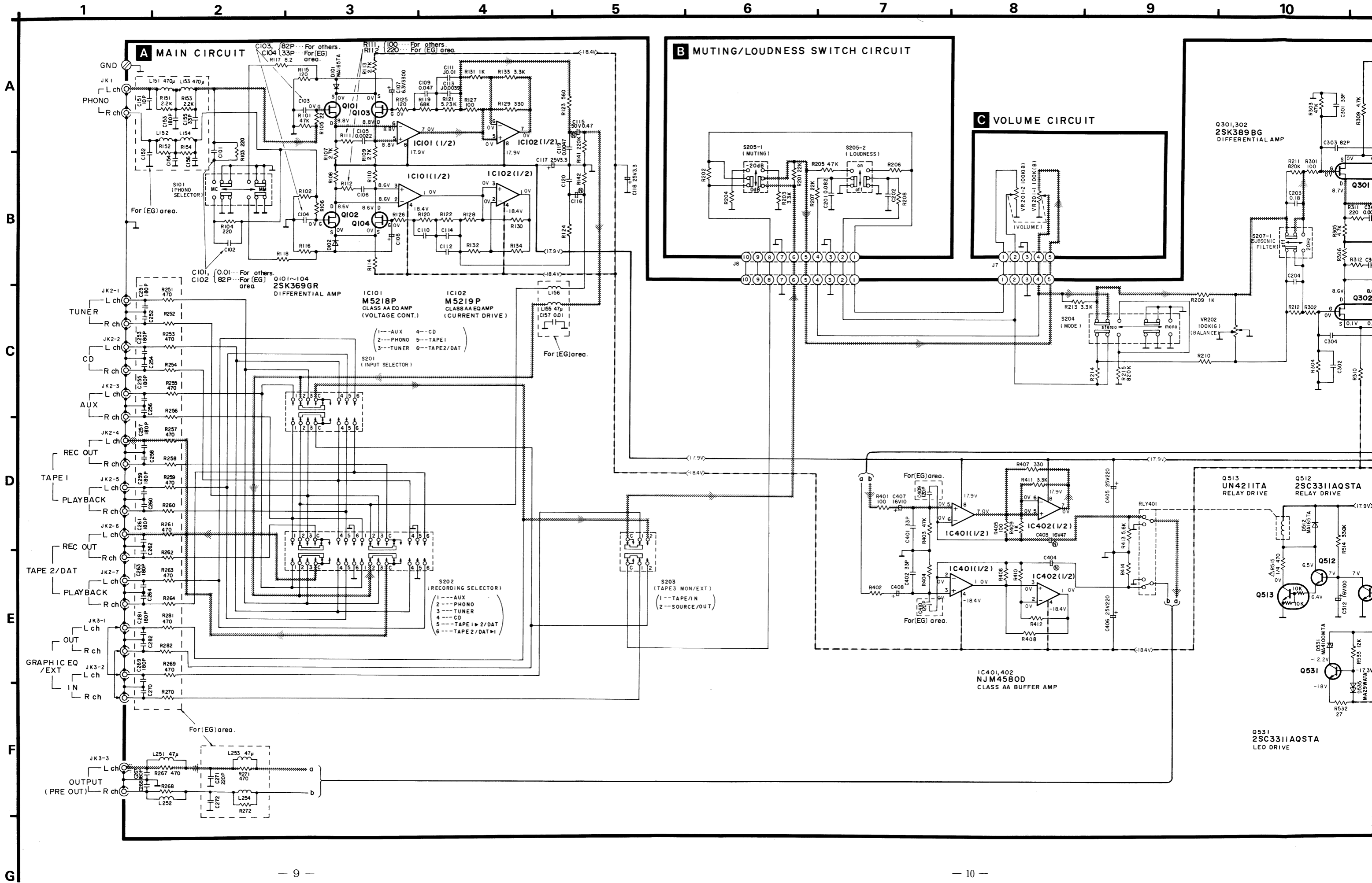
(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

- **S1** : Power switch in "on" position.
 - **S2** : Voltage selector switch (For [EB, GC, GL] areas.)
 - **S101** : Phono cartridge selector
 - **S201** : Input selector
 - **S203** : Tape 3 monitor/external switch
 - **S204** : Mode selector
 - **S205** : Audio muting switch
 - **S206** : Loudness switch
 - **S207** : Subsonic filter switch
 - **S301** : Tone control switch
- 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.
 -  Phono signal line (Lch)
 -  Positive and Negative voltage lines
 - Important safety notice:
Components identified by \triangle mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

 <table border="1" data-bbox="528 1070 735 1182"> <tr> <td>M5218P</td> <td rowspan="3">8 pin</td> </tr> <tr> <td>M5219P</td> </tr> <tr> <td>NJM4580D</td> </tr> </table>	M5218P	8 pin	M5219P	NJM4580D	<p>AN78M18 AN79M18</p>  <p>1. Vin 2. GND 3. Vout</p>	<p>2SK369GR</p>  <p>Drain Gate Source</p>	<p>2SK389BG</p>  <p>1 D1 4 N.C. 7 D2 2 G1 5 S2 3 S1 6 G2</p>
M5218P	8 pin						
M5219P							
NJM4580D							
 <p>E C B</p> <p>UN4211TA 2SC3311AQSTA 2SD1450RSTTA</p>	 <p>Anode Cathode</p> <p>Ca \rightarrow  \rightarrow A</p> <p>1SR35200TB MA165TA MA167TA MA29WATA</p>		<p>MA4100MTA</p>  <p>Anode Cathode</p> <p>Ca \rightarrow  \rightarrow A</p>				
<p>LN018305PH</p>  <p>Anode Cathode</p> <p>A \rightarrow  \rightarrow Ca</p>							



A MAIN CIRCUIT

B MUTING/LOUDNESS SWITCH CIRCUIT

C VOLUME CIRCUIT

IC101
M5218P
CLASS AA EQ AMP
(VOLTAGE CONT.)

IC102
M5219P
CLASS AA EQ AMP
(CURRENT DRIVE)

(1---AUX 4---CD
2---PHONO 5---TAPE1
3---TUNER 6---TAPE2/DAT)

S201
(INPUT SELECTOR)

S202
(RECORDING SELECTOR)

(1---AUX
2---PHONO
3---TUNER
4---CD
5---TAPE1/2/DAT
6---TAPE2/DAT)

S203
(TAPES MON/EXT)

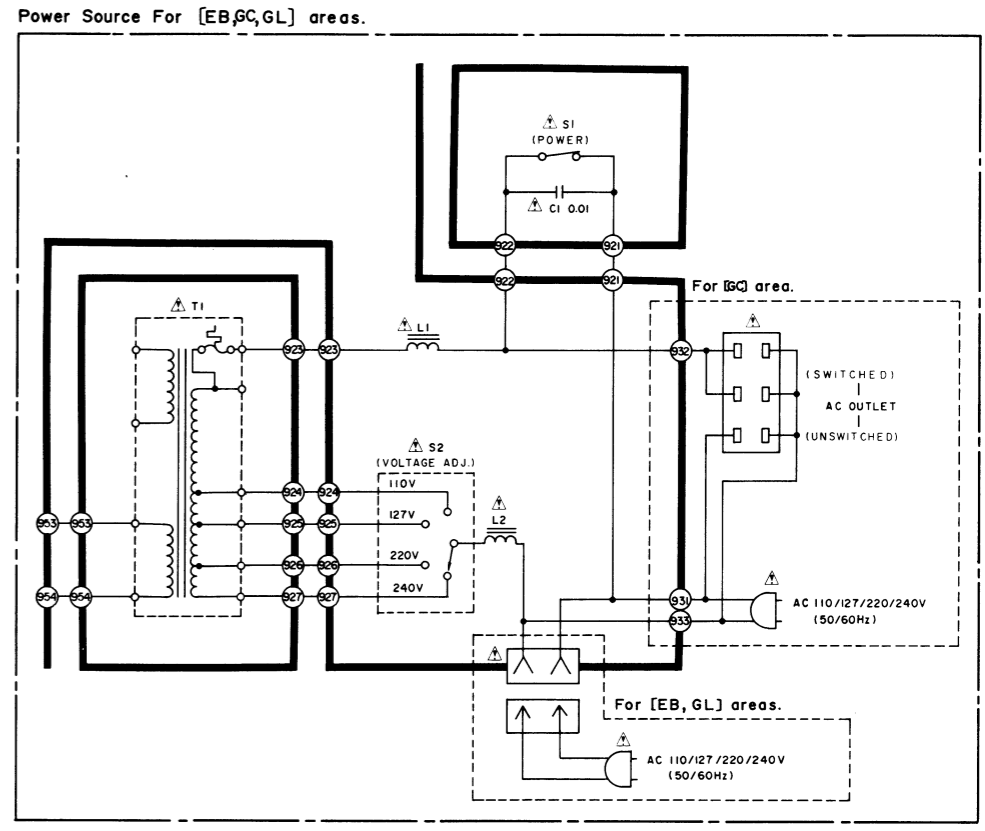
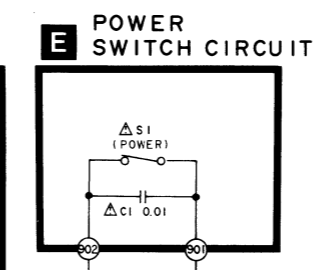
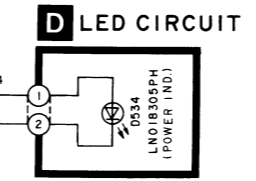
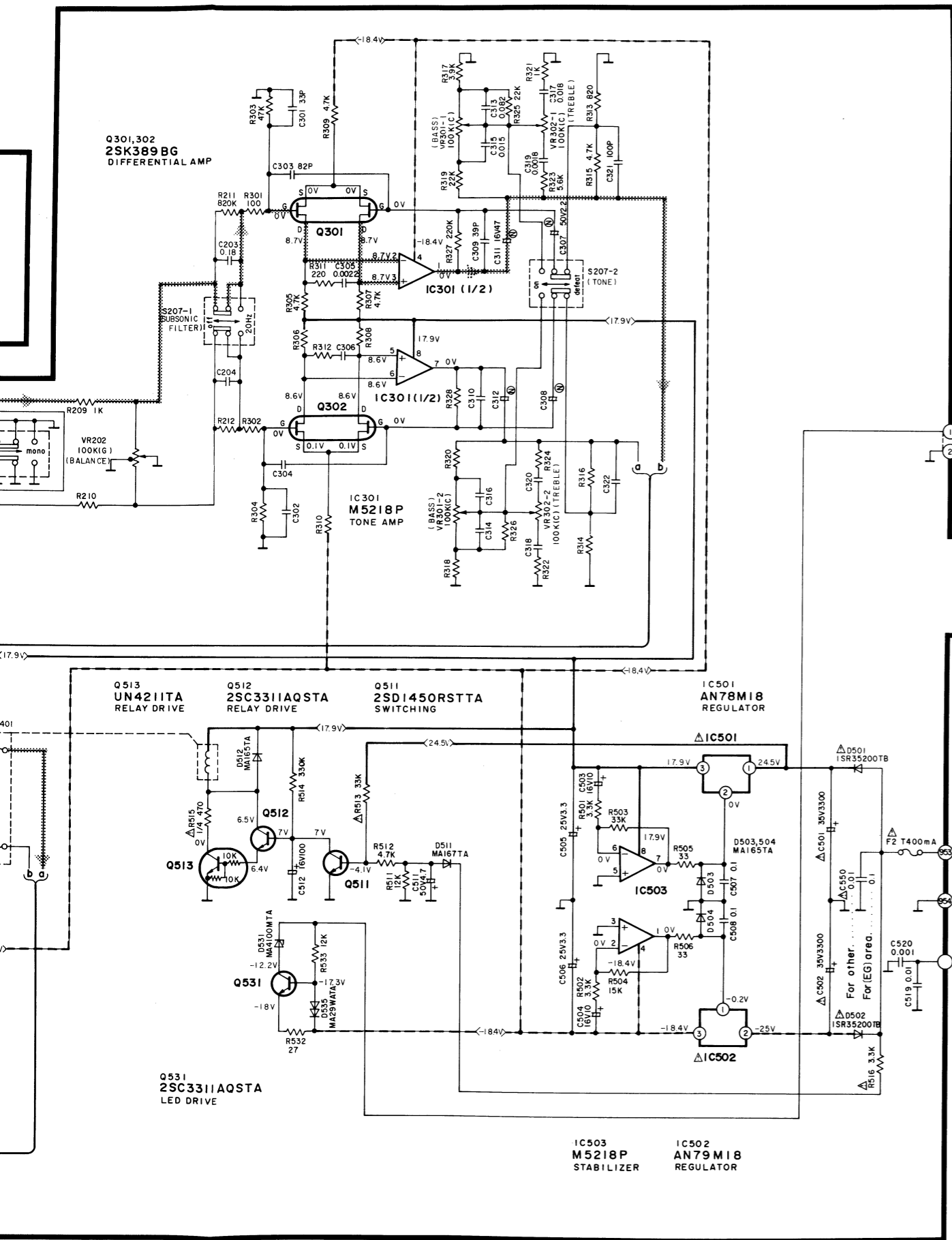
(1---TAPE1 IN
2---SOURCE/OUT)

IC401,402
NJM4580D
CLASS AA BUFFER AMP

Q301,302
2SK389BG
DIFFERENTIAL AMP

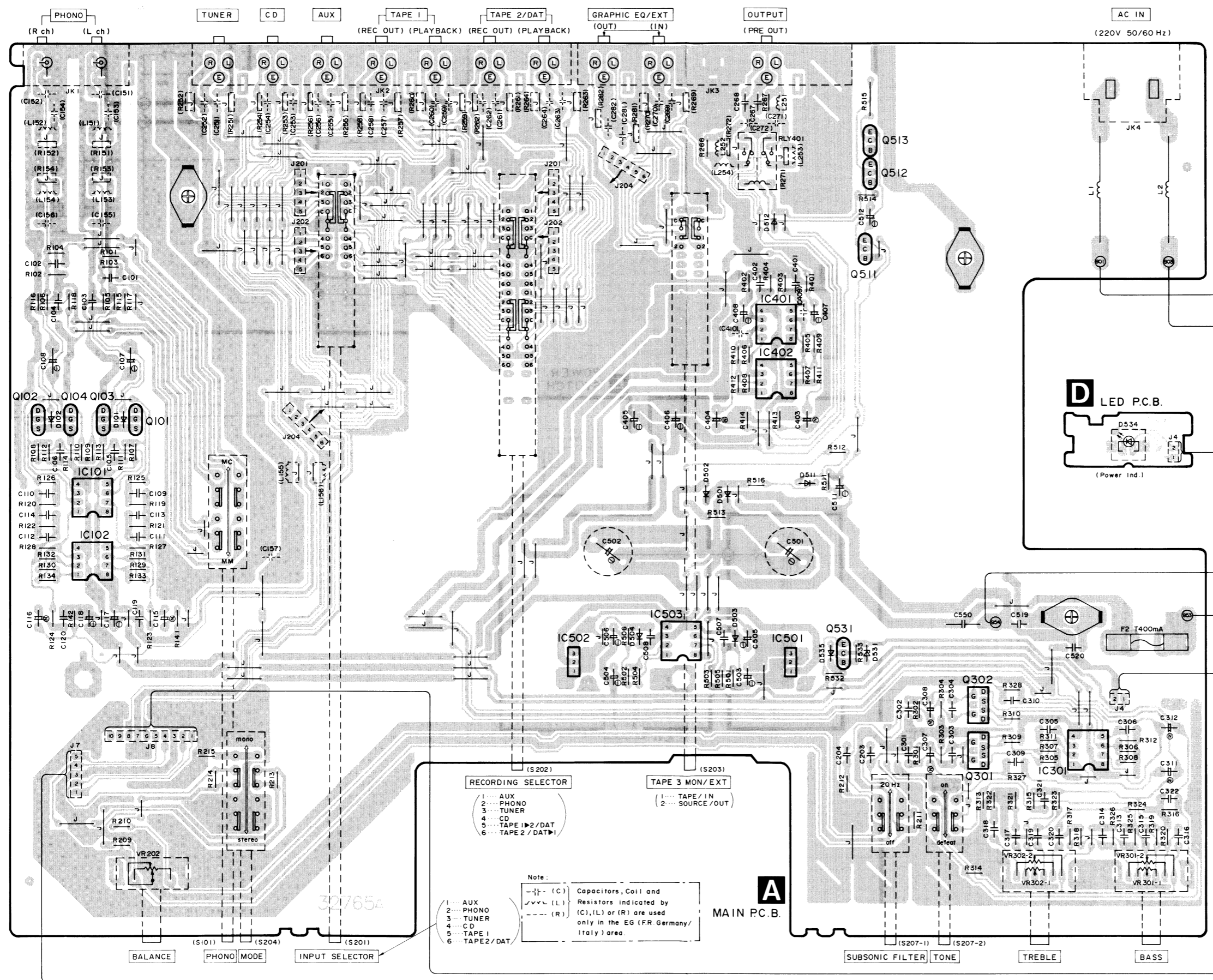
Q512
2SC3311AQSTA
RELAY DRIVE

Q531
2SC3311AQSTA
LED DRIVE



PRINTED CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM

A
B
C
D
E
F
G



RECORDING SELECTOR

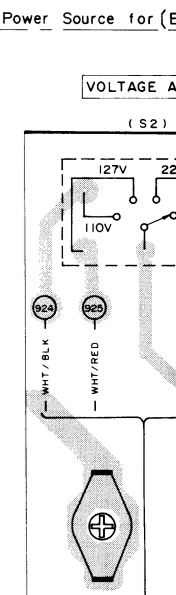
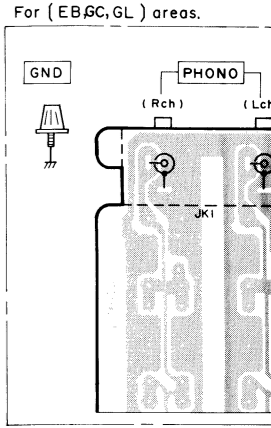
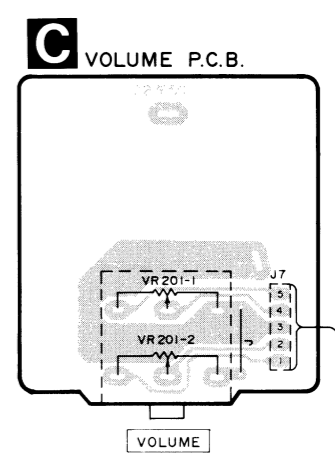
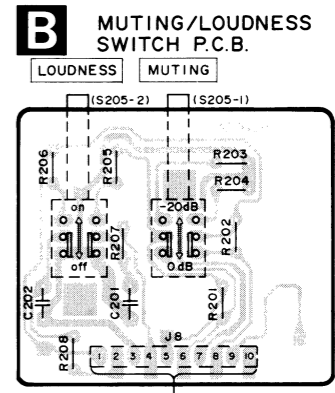
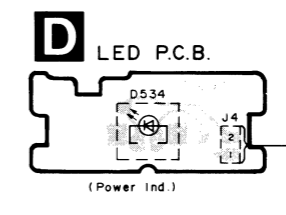
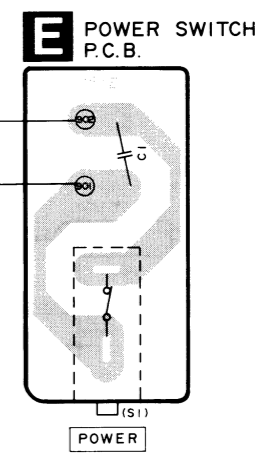
1 - AUX
2 - PHONO
3 - TUNER
4 - CD
5 - TAPE 1/2/DAT
6 - TAPE 2/DAT

TAPE 3 MON/EXT

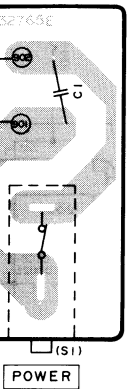
1 - TAPE / IN
2 - SOURCE / OUT

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

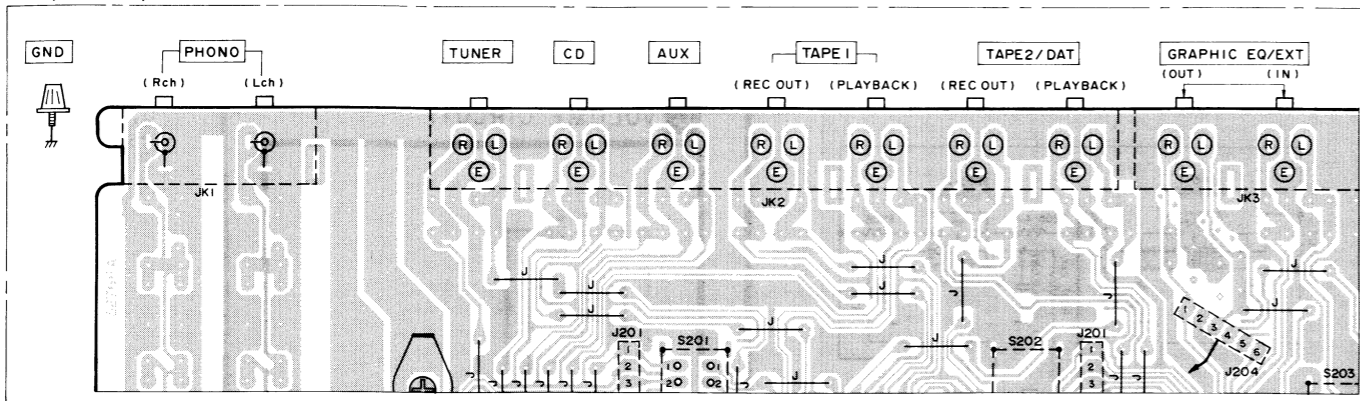
A



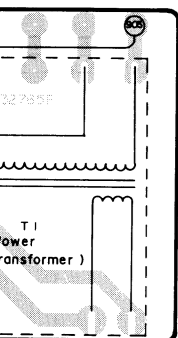
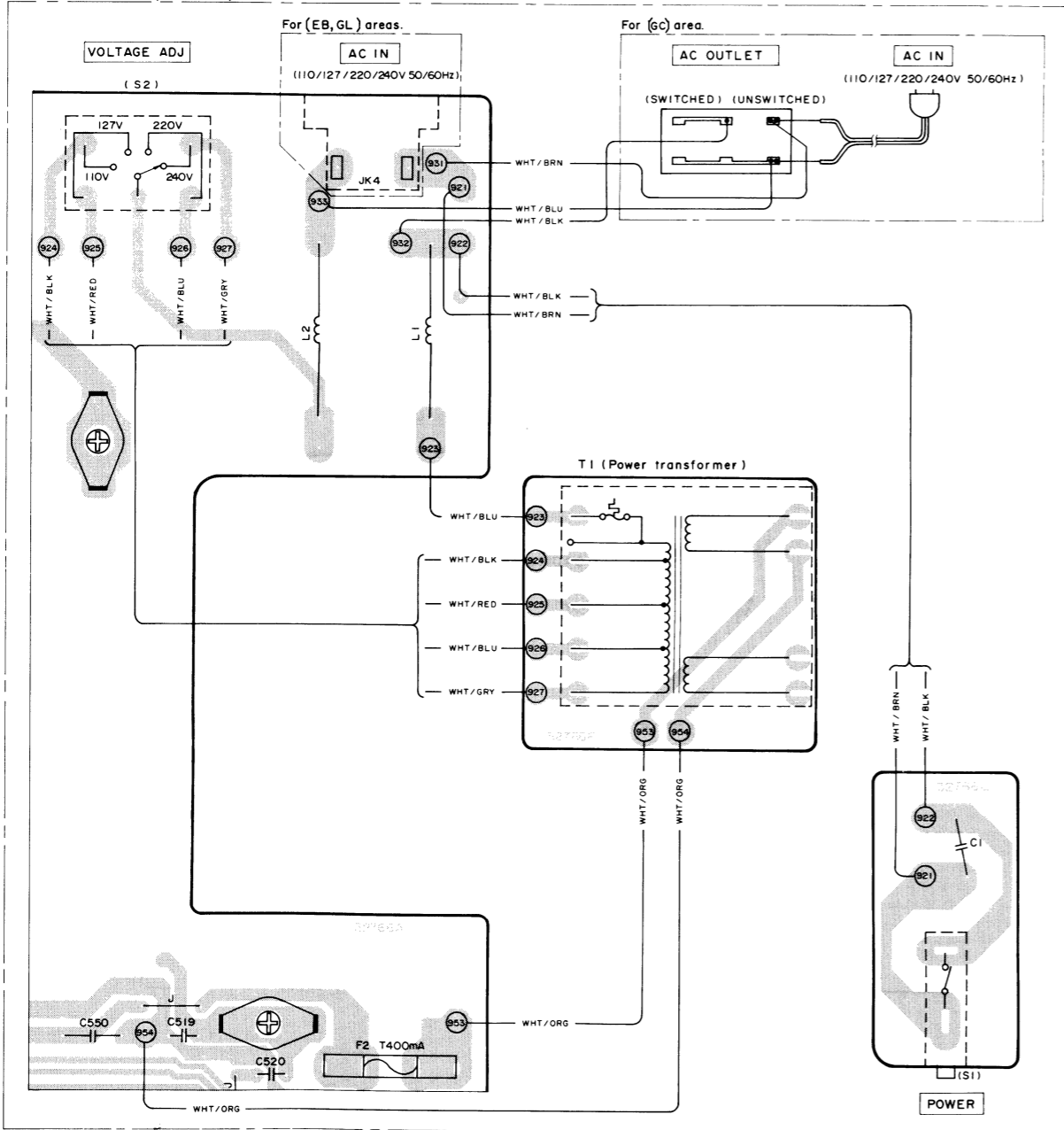
POWER SWITCH
P.C.B.



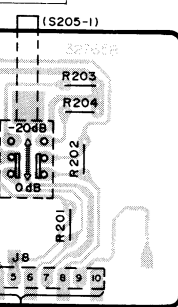
For (EB,GC,GL) areas.



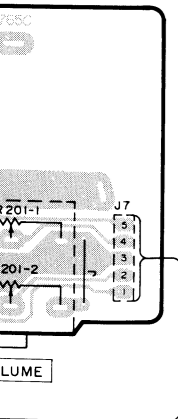
Power Source for (EB,GC,GL) areas.



VOLUME/LOUDNESS
CONTROL P.C.B.



LUMINE P.C.B.

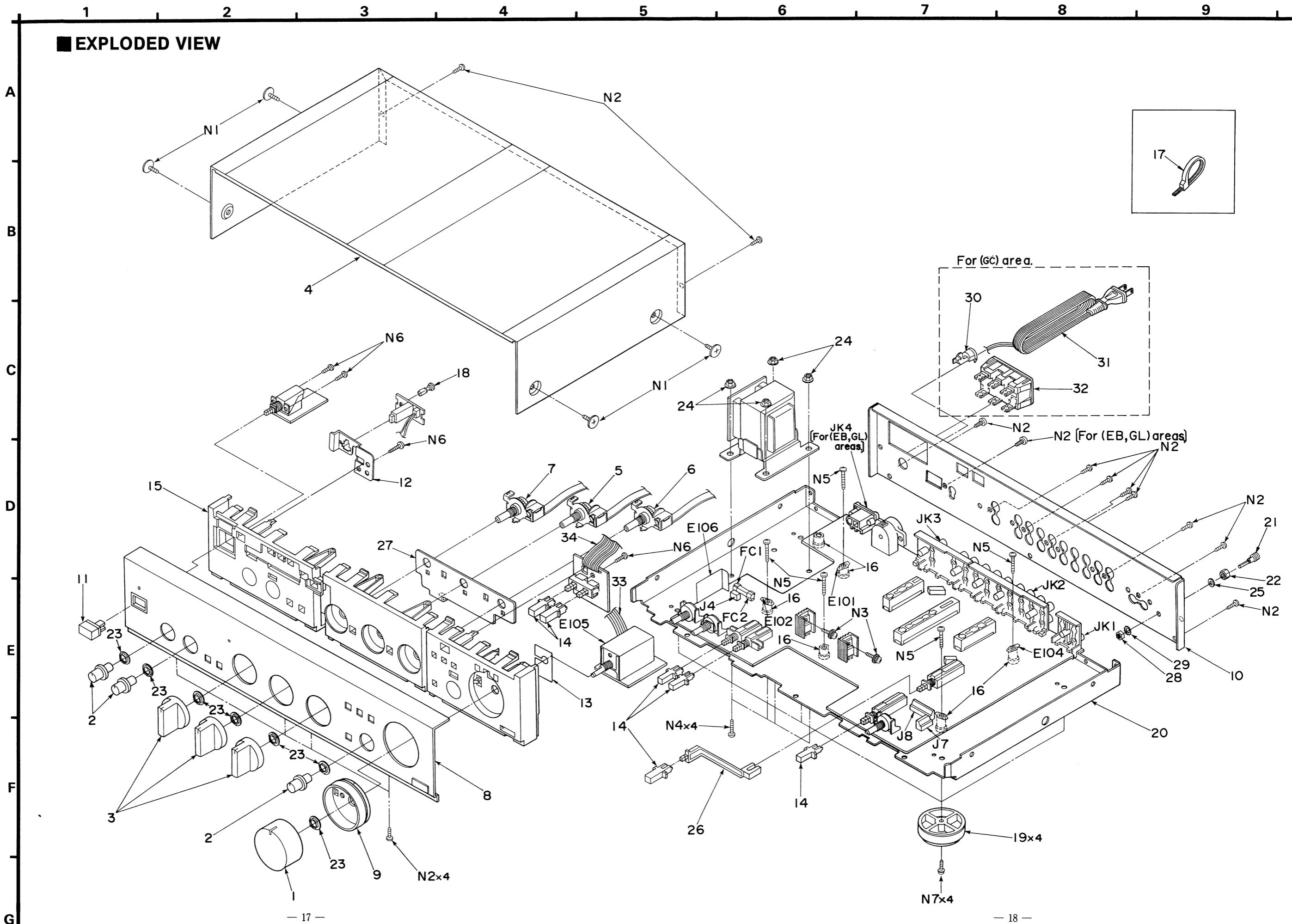


REPLACEMENT PARTS LIST

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.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
CABINET AND CHASSIS				N4	XTB3+10F	SCREW	
				N5	XTB3+20J	SCREW	
				N6	XTB3+8G	SCREW	
				N7	XTW3+8T	SCREW	
				PACKING MATERIAL			
				P1	RPG0117	CARTON BOX	
				P2	RPQ0049	ACCESSORY BOX	
				P3	SPS4459-7	PAD (LEFT)	
				P4	SPS4460-5	PAD (RIGHT)	
				P5	SPS4613-1	PAD (UPPER)	
				P6	XZB10X20A02	PROTECTION BAG	(GC)
				P7	SPB1065	PROTECTION BAG	(GC)
				ACCESSORIES			
				A1	RQF0102	INSTRUCTION MANUAL	(E)
				A1	RQF0103	INSTRUCTION MANUAL	(EG)
				A1	RQF0105	INSTRUCTION MANUAL	(EB)
				A1	RQF0118	INSTRUCTION MANUAL	(GC)
				A1	RQF0228	INSTRUCTION MANUAL	(GL)
				A2	SFDAC05E03	POWER CORD	(E, EG) Δ
				A2	SJA193	POWER CORD	(EB) Δ
				A2	SJA173	POWER CORD	(GL) Δ
				A3	SJPD18	PIN CORD	
				A4	SJP9215	AC PLUG ADAPTOR	(GC) Δ
				SCREWS			
N1	SNE2129-3	SCREW					
N2	XTBS3+8JF21	SCREW					
N3	XYN3+F8	SCREW					

EXPLODED VIEW



REPLACEMENT PARTS LIST

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Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUITS				FUSE	
IC101	M5218P	IC, CLASS AA EQ AMP		F2	XBA2C04TBO	FUSE (250V, T400mA)	Δ
IC102	M5219P	IC, CLASS AA EQ AMP				SWITCHES	
IC301	M5218P	IC, TONE AMP					
IC401, 402	NJM4580D	IC, CLASS AA BUFFER AMP		S1	ESB99714V	SW, POWER	Δ
IC501	AN78M18	IC, REGULATOR	Δ	S2	SSR187-1	SW, VOLTAGE ADJ.	<EB, GC, GL> Δ
IC502	AN79M18	IC, REGULATOR	Δ	S101	SSH1235	SW, PHONO SELECTOR	
IC503	M5218P	IC, STABILIZER		S201	ESA26132	SW, INPUT SELECTOR	
		TRANSISTORS		S202	ESA26134	SW, RECORDING SELECTOR	
				S203	ESA26133	SW, TAPE3 MON/EXT	
Q101~104	2SK369GR	TRANSISTOR		S204	SSH1236	SW, MODE	
Q301, 302	2SK389BG	TRANSISTOR		S205	SSH2125	SW, MUTING/LOUDNESS	
Q511	2SD1450RSTTA	TRANSISTOR		S207	SSH2135	SW, SUBSONIC FILTER/TONE	
Q512	2SC3311AQSTA	TRANSISTOR				JACKS	
Q513	UN4211TA	TRANSISTOR					
Q531	2SC3311AQSTA	TRANSISTOR		J4	SJT3213	CONNECTOR (2P)	
		DIODES		J7	SJT30543-V	CONNECTOR (5P)	
D101, 102	MA165TA	DIODE		J8	SJT31043-V	CONNECTOR (10P)	
D501, 502	1SR35200TB	DIODE	Δ	JK1	SJF3057-9A	TERMINAL BOARD	
D503, 504	MA165TA	DIODE		JK2	SJF3062-8A	TERMINAL BOARD	
D511	MA167TA	DIODE		JK3	SJF3062-25A	TERMINAL BOARD	
D512	MA165TA	DIODE		JK4	SJSD16	AC INLET	(EB, GL) Δ
D531	MA4100MTA	DIODE				SHIELD PLATES	
D534	LN018305PH	DIODE		E101, 102	SNE1004	EARTH TERMINAL	
D535	MA29WATA	DIODE		E104	SNE1004	EARTH TERMINAL	
		VARIABLE RESISTORS		E105	SMC1220-1	SHIELD PLATE	
				E106	SMC949	SHIELD PLATE	
VR201	EWF3KA024B15	VR, VOLUME				FUSE HOLDERS	
VR202	EWHFNAF20G15	VR, BALANCE		FC1, FC2	SJT390	FUSE HOLDER	
VR301	EWCSSAF20C15	VR, BASS				RELAY	
VR302	EWCSSAF20C15	VR, TREBLE		RLY401	SFDYG5A237P	RELAY	
		COILS				POWER TRANSFORMER	
L1, L2	SLQX400-D	COIL	Δ	T1	SLT5L292-W	POWER TRANSFORMER	(E, EG) Δ
L151, 152	SLQW471-1P3	COIL	(EG)	T1	SLT5L293-W	POWER TRANSFORMER	(EB, GC, GL) Δ
L153, 154	SLQW471-1P3	COIL	(EG)				
L155, 156	ELEPK470KA	COIL	(EG)				
L251, 252	ELEPK470KA	COIL					
L253, 254	ELEPK470KA	COIL	(EG)				

RESISTORS & CAPACITORS

Notes : * Important safety notice:
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Numbering System For Resistors

Example:

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

Numbering System For Capacitors

Example:

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

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

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 1B : 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%
ERD K : Metal Film (chip)	2A : 2W 3A : 3W	M : \pm 20%
ERC : Solid	6G : 1/10W 8G : 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
OCU : Ceramic (Chip Type)	KC : 125V AC (UL)	D : \pm 0.5pF
ECUX : Ceramic (Chip Type)		
ECF : Semiconductor		
EECW : Liquid electrolyte double layer capacitor		

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS		R205, 206	ERDS2TJ473T	C. RESISTOR 1/4W 47K	
				R207, 208	ERDS2TJ223T	C. RESISTOR 1/4W 22K	
				R209, 210	ERDS2TJ102T	C. RESISTOR 1/4W 1K	
				R211, 212	ERDS2TJ824T	C. RESISTOR 1/4W 820K	
				R213, 214	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K	
				R215	ERDS2TJ824T	C. RESISTOR 1/4W 820K	
R101, 102	ERDS2TJ473T	C. RESISTOR 1/4W 47K		R251, 252	ERDS2TJ471T	C. RESISTOR 1/4W 470 (EG)	
R103, 104	ERDS2TJ221T	C. RESISTOR 1/4W 220		R253, 254	ERDS2TJ471T	C. RESISTOR 1/4W 470 (EG)	
R105, 106	ERDS2TJ220T	C. RESISTOR 1/4W 22		R255, 256	ERDS2TJ471T	C. RESISTOR 1/4W 470 (EG)	
R107~110	ERDAS3G272T	C. RESISTOR 1/4W 2.7K		R257, 258	ERDS2TJ471T	C. RESISTOR 1/4W 470 (EG)	
R111, 112	ERDS2TJ101T	C. RESISTOR 1/4W 100 (E, EB, GC, GL)		R259, 260	ERDS2TJ471T	C. RESISTOR 1/4W 470 (EG)	
R111, 112	ERDS2TJ221T	C. RESISTOR 1/4W 220 (EG)		R261, 262	ERDS2TJ471T	C. RESISTOR 1/4W 470 (EG)	
R113, 114	ERDAS3G272T	C. RESISTOR 1/4W 2.7K		R263, 264	ERDS2TJ471T	C. RESISTOR 1/4W 470 (EG)	
R115, 116	ERDS2TJ121T	C. RESISTOR 1/4W 120		R267, 268	ERDS2TJ471T	C. RESISTOR 1/4W 470	
R117, 118	ERDS2TJ8R2T	C. RESISTOR 1/4W 8.2		R269, 270	ERDS2TJ471T	C. RESISTOR 1/4W 470 (EG)	
R119, 120	EROS2TKG6802	M. RESISTOR 1/4W 68K		R271, 272	ERDS2TJ471T	C. RESISTOR 1/4W 470 (EG)	
R121, 122	EROS2TKF5231	M. RESISTOR 1/4W 5.23K		R281, 282	ERDS2TJ471T	C. RESISTOR 1/4W 470 (EG)	
R123, 124	ERDS2TJ561T	C. RESISTOR 1/4W 560		R301, 302	ERDS2TJ101T	C. RESISTOR 1/4W 100	
R125, 126	ERDS2TJ121T	C. RESISTOR 1/4W 120		R303, 304	ERDS2TJ473T	C. RESISTOR 1/4W 47K	
R127, 128	ERDS2TJ101T	C. RESISTOR 1/4W 100		R305 310	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K	
R129, 130	ERDS2TJ331T	C. RESISTOR 1/4W 330		R311, 312	ERDS2TJ221T	C. RESISTOR 1/4W 220	
R131, 132	ERDS2TJ102T	C. RESISTOR 1/4W 1K		R313, 314	ERDAS3G821T	C. RESISTOR 1/4W 820	
R133, 134	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K		R315, 316	ERDAS3G472T	C. RESISTOR 1/4W 4.7K	
R141, 142	ERDS2TJ224T	C. RESISTOR 1/4W 220K		R317, 318	ERDS2TJ392T	C. RESISTOR 1/4W 3.9K	
R151, 152	ERDS2TJ222T	C. RESISTOR 1/4W 2.2K (EG)		R319, 320	ERDS2TJ223T	C. RESISTOR 1/4W 22K	
R153, 154	ERDS2TJ222T	C. RESISTOR 1/4W 2.2K (EG)		R321, 322	ERDS2TJ102T	C. RESISTOR 1/4W 1K	
R201, 202	ERDS2TJ223T	C. RESISTOR 1/4W 22K		R323, 324	ERDS2TJ562T	C. RESISTOR 1/4W 5.6K	
R203, 204	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K		R325, 326	ERDS2TJ223T	C. RESISTOR 1/4W 22K	

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
R327, 328	ERDS2TJ224T	C. RESISTOR 1/4W 220K		C281, 282	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)
R401, 402	ERDAS3G101T	C. RESISTOR 1/4W 100		C301, 302	ECCT1H330K	C. CAPACITOR 50V 33P	
R403, 404	ERDS2TJ473T	C. RESISTOR 1/4W 47K		C303, 304	ECCT1H820K	C. CAPACITOR 50V 82P	
R405, 406	ERDAS3G101T	C. RESISTOR 1/4W 100		C305, 306	ECKT1H222MD	C. CAPACITOR 50V 2200P	
R407, 408	ERDAS3G331T	C. RESISTOR 1/4W 330		C307, 308	ECEA1HB22R2B	E. CAPACITOR 50V 2. 2U	
R409, 410	ERDAS3G102T	C. RESISTOR 1/4W 1K		C309, 310	ECCT1H390K	C. CAPACITOR 50V 39P	
R411, 412	ERDAS3G332T	C. RESISTOR 1/4W 3. 3K		C311, 312	ECEA1CB2470B	E. CAPACITOR 16V 47U	
R413, 414	ERDS2TJ562T	C. RESISTOR 1/4W 5. 6K		C313, 314	ECQV1H823JZ3	P. CAPACITOR 50V 0. 082U	
R501, 502	ERDS2TJ332T	C. RESISTOR 1/4W 3. 3K		C315, 316	ECQB1H153JZ3	P. CAPACITOR 50V 0. 015U	
R503	ERDS2TJ333T	C. RESISTOR 1/4W 33K		C317, 318	ECQB1H183JZ3	P. CAPACITOR 50V 0. 018U	
R504	ERDS2TJ153T	C. RESISTOR 1/4W 15K		C319, 320	ECQB1H182JZ3	P. CAPACITOR 50V 1800P	
R505, 506	ERDS2TJ330T	C. RESISTOR 1/4W 33		C321, 322	ECCT1H101K	C. CAPACITOR 50V 100P	
R511	ERDS2TJ123T	C. RESISTOR 1/4W 12K		C401, 402	ECCT1H330K	C. CAPACITOR 50V 33P	
R512	ERDS2TJ472T	C. RESISTOR 1/4W 4. 7K		C403, 404	ECEA1CB2470B	E. CAPACITOR 16V 47U	
R513	ERDS2TJ333T	C. RESISTOR 1/4W 33K	△	C405, 406	ECEA1EU221B	E. CAPACITOR 25V 220U	
R514	ERDS2TJ334T	C. RESISTOR 1/4W 330K		C407, 408	ECEA1CPX100B	E. CAPACITOR 16V 10U	
R515	ERD25FJ471P	C. RESISTOR 1/4W 470	△	C409, 410	RCBS1H121KBY	C. CAPACITOR 50V 120P	(EG)
R516	ERDS2TJ332T	C. RESISTOR 1/4W 3. 3K	△	C501, 502	ECES1VW332RY	E. CAPACITOR 35V 3300U	△
R532	ERDS2TJ270T	C. RESISTOR 1/4W 27		C503, 504	ECEA1CK100B	E. CAPACITOR 16V 10U	
R533	ERDS2TJ123T	C. RESISTOR 1/4W 12K		C505, 506	ECEA1EK3R3B	E. CAPACITOR 25V 3. 3U	
				C507, 508	ECQV1H104JZ3	P. CAPACITOR 50V 0. 1U	
		CAPACITORS		C511	ECEA1HK4R7B	E. CAPACITOR 50V 4. 7U	
				C512	ECEA1CU101B	E. CAPACITOR 16V 100U	
C1	ECKWNS103ZVS	C. CAPACITOR 250V 0. 01U	△	C519	ECKT1H103ZF	C. CAPACITOR 50V 0. 01U	
C101, 102	ECQM1H103KV3	P. CAPACITOR 50V 0. 01U	(E, EB, GC, GL)	C520	ECKT1H102KB	C. CAPACITOR 50V 1000P	
C101, 102	ECCT1H820K	C. CAPACITOR 50V 82P	(EG)	C550	ECKW2H103PE	C. CAPACITOR 500V 0. 01U	(E, EB, GC, GL) △
C103, 104	ECCT1H820K	C. CAPACITOR 50V 82P	(E, EB, GC, GL)	C550	ECQE2104KS	P. CAPACITOR 250V 0. 1U	(EG) △
C103, 104	ECCT1H330K	C. CAPACITOR 50V 33P	(EG)				
C105, 106	ECKT1H222MD	C. CAPACITOR 50V 2200P					
C107, 108	ECEA0JPX332E	E. CAPACITOR 6. 3V 3300U					
C109, 110	ECQV1H473JZ3	P. CAPACITOR 50V 0. 047U					
C111, 112	ECQB1H103JZ3	P. CAPACITOR 50V 0. 01U					
C113, 114	ECQM1H392KV3	P. CAPACITOR 50V 3900P					
C115, 116	ECEA1HB24R7B	E. CAPACITOR 50V 0. 47					
C117, 118	ECEA1EK3R3B	E. CAPACITOR 25V 3. 3U					
C119, 120	ECQM1H472KV3	P. CAPACITOR 50V 4700P					
C151, 152	ECCT1H100K	C. CAPACITOR 50V 10P	(EG)				
C153, 154	RCBS1H181KBY	C. CAPACITOR 50V 180P	(EG)				
C155, 156	ECCT1H330K	C. CAPACITOR 50V 33P	(EG)				
C157	ECKT1H103ZF	C. CAPACITOR 50V 0. 01U	(EG)				
C201, 202	ECQV1H823JZ3	P. CAPACITOR 50V 0. 082U					
C203, 204	ECQV1H184JZ3	P. CAPACITOR 50V 0. 18U					
C251, 252	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)				
C253, 254	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)				
C255, 256	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)				
C257, 258	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)				
C259, 260	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)				
C261, 262	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)				
C263, 264	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)				
C267, 268	ECCT1H181K	C. CAPACITOR 50V 180P					
C269, 270	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)				
C271, 272	RCBS1H221KBY	C. CAPACITOR 50V 220P	(EG)				

Service Manual

Amplifier

SU-A40

Supplement

Stereo Control Amplifier

Color

(K)... Black Type

Area

Country Code	Area	Color
(P)	U.S.A.	(K)
(PC)	Canada.	
(E)	Continental Europe.	
(EB)	Great Britain.	
(EG)	F.R. Germany/Italy.	
(GC)	Third Region.	
(GL)	Australia.	

Please file and use this supplement manual together with the service manual for Model No. SU-A40, Order No. AD8905152C1 (P, PC areas) or Order No. AD8904098C8 (Other areas).

Note:

- This supplement has been issued to correct an error in the "Replacement Parts List" on page 17 (P, PC areas) and "Replacement Parts List" on Page 16 (Other areas).

CORRECTION

REPLACEMENT PARTS LIST

(Page 17 of service manual..... P, PC areas)

(Page 16 of service manual..... Other areas)

Ref. No.	Change of Part No.		Part Name & Description	Remarks
	ORIGINAL	→ NEW		
CABINET AND CHASSIS				
33	RWJ390580KQ	RWJ3905080KQ	FLAT CABLE	Correction

Technics

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