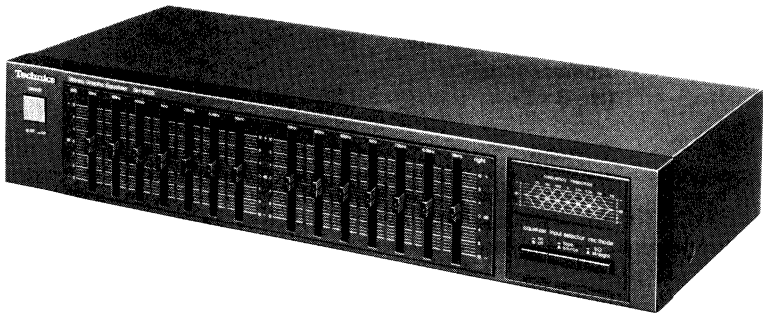


Service Manual

Stereo Graphic Equalizer

Equalizer

SH-8028



Color

- (K) Black Type
(S) Silver Type

Color	Area
(K)(S)	[M] U.S.A.
(K)(S)	[MC] Canada
(K)(S)	[E] Continental Europe
(K)(S)	[EH] Holland
(K)(S)	[EB] Belgium
(K)(S)	[EF] France
(K)(S)	[EK] United Kingdom
(K)(S)	[EGA] . . . F.R. Germany
(K)(S)	[Ei] Italy
(K)(S)	[XL] Australia
(K)(S)	[XA] Asia, Latin America, Middle Near East, Africa & Oceania
(K)(S)	[PA] Far East PX
(K)(S)	[PE] European Military

SPECIFICATIONS

- Frequency response**
(center position) : 5 Hz~100 kHz, -1 dB
- Maximum output voltage** : 8 V (1 kHz, THD 0.01%)
- Rated output voltage** : 1 V
- Rated total harmonic distortion** : 0.005% (20 Hz~20 kHz)
0.003% (1 kHz)
- Input sensitivity** : 1 V
- Signal-to-noise ratio** : 100 dB (DIN 45 500)
: 110 dB (IHF'A)
- Maximum input voltage** : 8 V (1 kHz)
- Input impedance** : 33 k Ω
- Gain** : 0 $\pm$ 1 dB
- Channel balance (DIN 45 500)**
250 Hz~6300 Hz : $\pm$ 0.5 dB
- Channel separation (DIN 45 500)**
1 kHz : 70 dB
- Band level controls** : +12 dB~-12 dB
(7 elements continuously variable per channel)
- Center frequency** : 63 Hz, 160 Hz, 400 Hz, 1 kHz,
2.5 kHz, 6.3 kHz, 16 kHz

GENERAL

- Power supply** : AC 60 Hz, 120V
(For U.S.A. and Canada)
AC 50 Hz/60 Hz, 240 V
(For United Kingdom and Australia)
AC 50 Hz/60 Hz, 220 V
(For continental Europe)
AC 50 Hz/60 Hz, 110 V~127 V/
220 V~240V
(For other areas)
- Power consumption** : 7 W
- Dimensions**
(H $\times$ W $\times$ D) : 86 x 430 x 193.5 mm
(3-3/8" x 16-15/16" x 7-5/8")
- Weight** : 2.1 kg (4.6lb)

Specifications are subject to change without notice
for further improvement.

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Deutsch (German)

TECHNISCHE DATEN

(DIN 45 500)

Frequenzgang (mittelstellung)	: 5 Hz~100 kHz, -1 dB
Maximalausgangs- spannung	: 8 V (1 kHz, THD 0,01%)
Nennausgangsspan- nung	: 1 V
Nennklirrfaktor	: 0,005% (20 Hz~20 kHz) 0,003% (1 kHz)
Eingangsspannung	: 1 V
Geräuschabstand	: 100 dB (110 dB, IHF, A)
Maximaleingangs- spannung	: 8 V (1 kHz)
Eingangsimpedanz	: 33 kΩ
Verstärkung	: 0±1 dB
Kanalsymmetrie	
250 Hz~6300 Hz	: ±0,5 dB
Kanaltrennung 1kHz	: 70 dB

Frequenzgangregler	: +12 dB~-12 dB (7 Regler, stufenlos verstellbar)
Mittenfrequenzen	: 63 Hz, 160 Hz, 400 Hz, 1 kHz, 2,5 kHz, 6,3 kHz, 16 kHz

ALLGEMEINE DATEN

Stromversorgung	: Wechselstrom 50 Hz/60 Hz, 220 V (Für Kontinentaleuropa) Wechselstrom 50 Hz/60 Hz, 110 V~127 V/220 V~240 V (Für andere Länder)
Leistungsaufnahme	: 7 W
Abmessungen (H×B×T)	: 86 x 430 x 193,5 mm (3-3/8" x 16-15/16" x 7-5/8")
Gewicht	: 2,1 kg (4,6 lb)

Spezifikationen können infolge von Verbesserungen ohne Ankündigung geändert werden.

Français (French)

CARACTERISTIQUES

(DIN 45 500)

Réponse de fréquence (position centrale)	: 5 Hz~100 kHz, -1 dB
Tension de sortie maximale	: 8 V (1 kHz, THD 0,01%)
Tension de sortie nominale	: 1 V
Distortion harmonique totale	: 0,005% (20 Hz~20 kHz) 0,003% (1 kHz)
Sensibilité d'entrée	: 1 V
Signal/Bruit	: 100 dB (110 dB, IHF, A)
Tension d'entrée maximale	: 8 V (1 kHz)
Impédance d'entrée	: 33 kΩ
Gain	: 0±1 dB
Equilibrage de canal	
250 Hz~6300 Hz	: ±0,5 dB
Séparation de canal 1 kHz	: 70 dB

Commandes de niveau de gamme	: +12 dB~-12 dB (7 éléments, continuellement variables)
Fréquences charnières	: 63 Hz, 160 Hz, 400 Hz, 1 kHz, 2,5 kHz, 6,3 kHz, 16 kHz

GENERALITES

Alimentation	: CA 50 Hz/60 Hz, 220 V (Pour l'Europe) CA 50 Hz/60 Hz, 110 V~127 V/ 220 V~240 V (Autres)
Consommation	: 7 W
Dimensions (h×l×p)	: 86 x 430 x 193,5 mm (3-3/8" x 16-15/16" x 7-5/8")
Poids	: 2,1 kg (4,6 lb)

Sujet à changement sans préavis.

Español (Spanish)

ESPECIFICACIONES

(DIN 45 500)

Respuesta de frecuencia (posición central)	: 5 Hz~100 kHz, -1 dB
Tensión de salida máxima	: 8 V (1 kHz, THD 0,01%)
Tensión de salida de régimen	: 1 V
Distorsión armónica total nominal	: 0,005% (20 Hz~20 kHz) 0,003% (1 kHz)
Sensibilidad de entrada	: 1 V
Relación de señal ruido	: 100 dB (110 dB, IHF, A)
Tensión de entrada máxima	: 8 V (1 kHz)
Impedancia de entrada	: 33 kΩ
Ganancia	: 0±1 dB
Equilibrio de canales	
250 Hz~6300 Hz	: ±0,5 dB
Separación de canales 1 kHz	: 70 dB

Controles de nivel de banda	: +12 dB~-12 dB (7 elementos, continuamente variables)
Frecuencia central	: 63 Hz, 160 Hz, 400 Hz, 1 kHz, 2,5 kHz, 6,3 kHz, 16 kHz

EN GENERAL

Alimentación de corriente	: CA 50 Hz/60 Hz, 220 V (Para Europa continental) CA 50 Hz/60 Hz, 110 V~127 V/ 220 V~240 V (Para otros países)
Consumo de corriente	: 7 W
Dimensiones (alto×ancho×prof.)	: 86 x 430 x 193,5 mm (3-3/8" x 16-15/16" x 7-5/8")
Peso	: 2,1 kg (4,6 lb)

Estas especificaciones están sujetas a cualquier cambio sin previo aviso.

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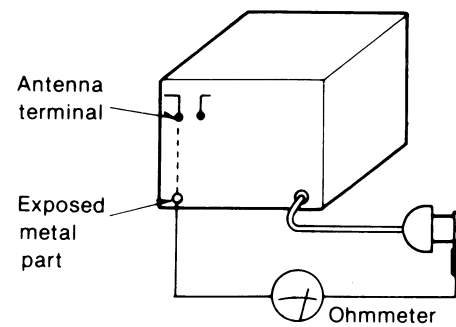
SAFETY PRECAUTIONS (This "safety precaution" is applied only in U.S.A.)

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

INSULATION RESISTANCE TEST

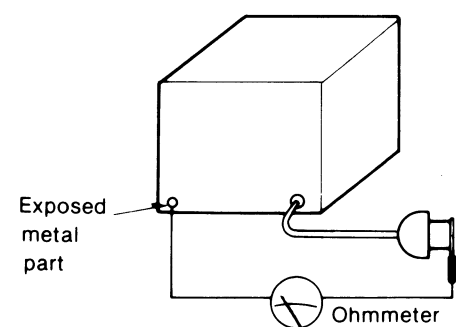
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with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

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



(Fig. A)

Resistance = 3MΩ—5.2MΩ

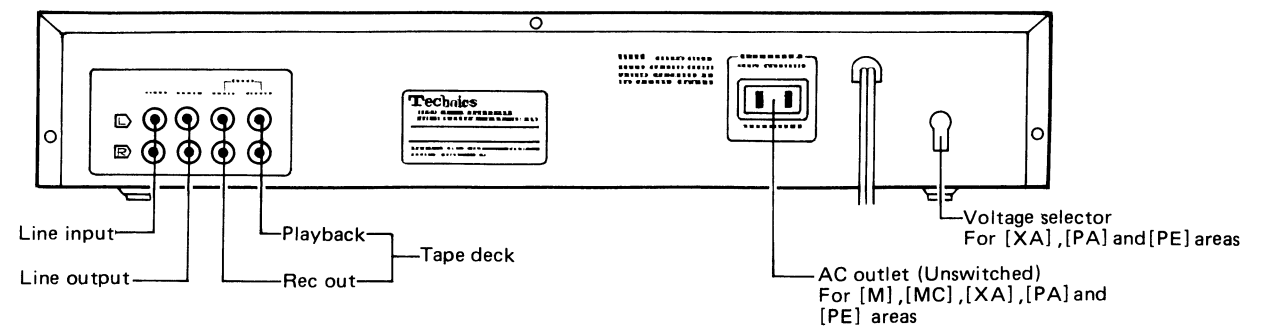
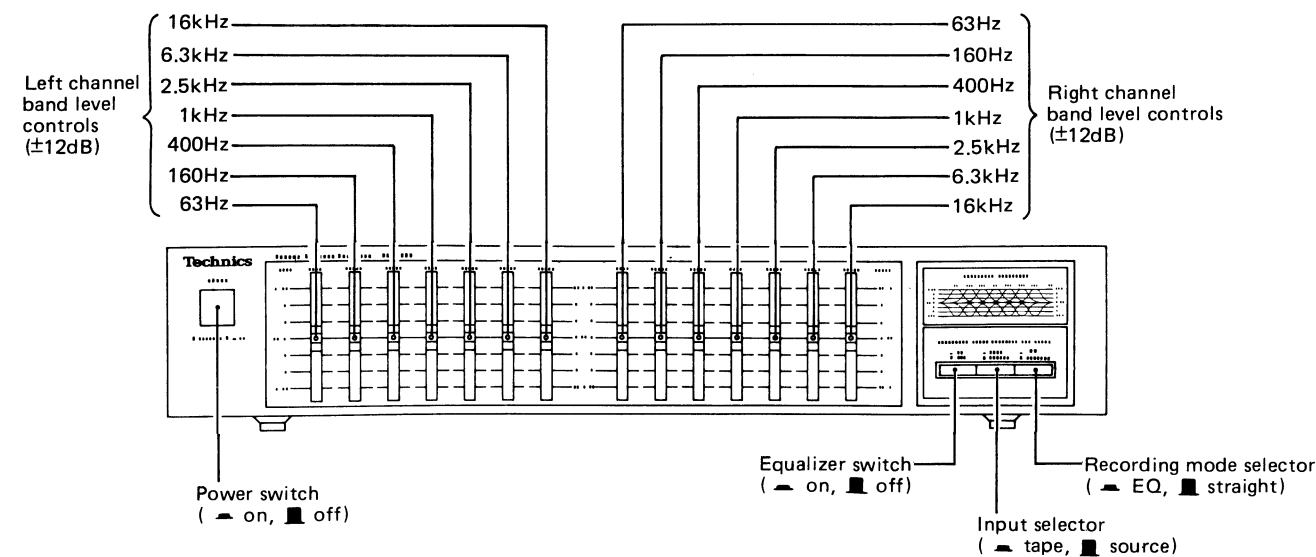


(Fig. B)

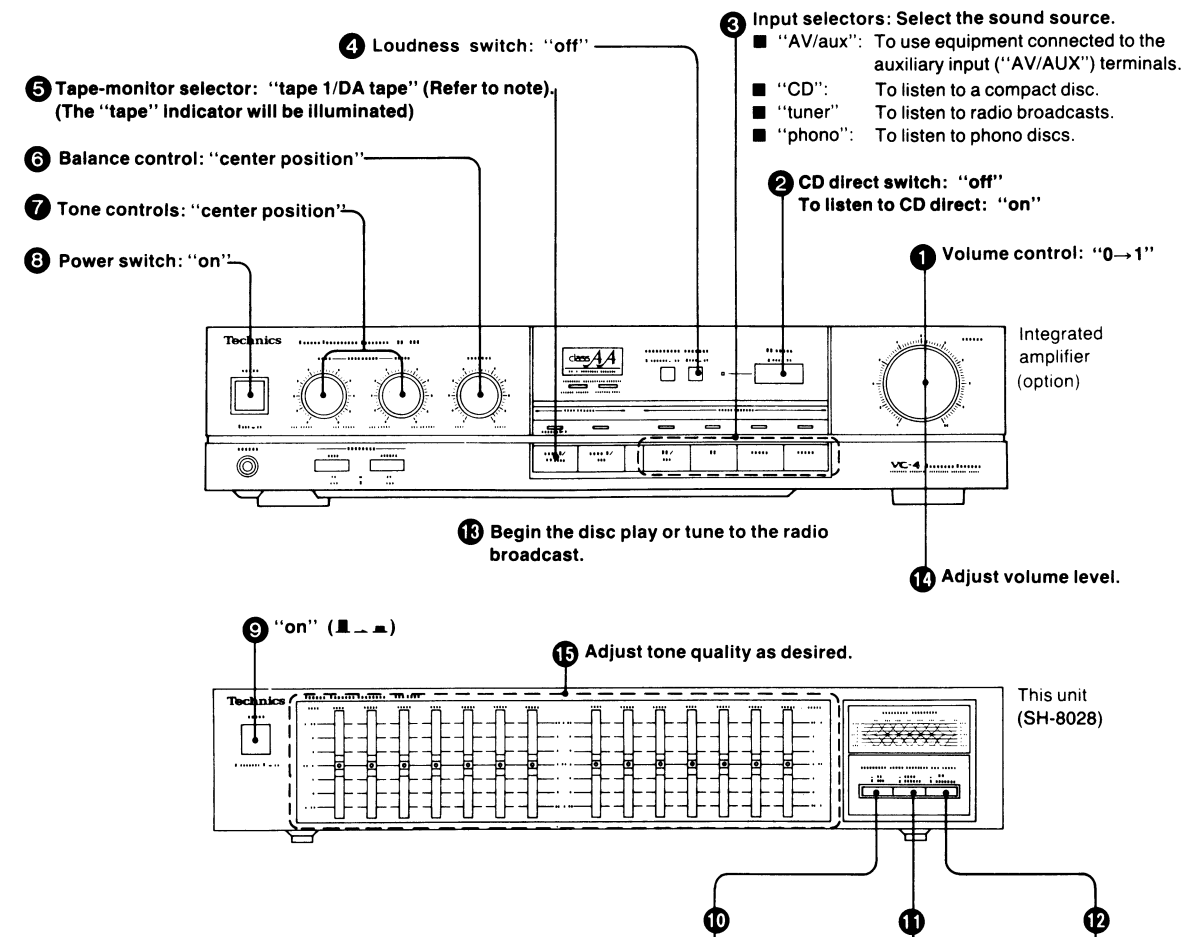
Resistance = Approx ∞

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

LOCATION OF CONTROLS



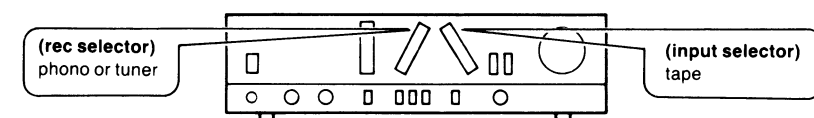
OPERATION



	equalizer	input selector	rec mode
To listen to corrected sound of phono discs or radio.			Set to any position.
To record corrected sound of phono discs or from radio.	"on" ()	"source" ()	"EQ" ()
To record the uncorrected sound of phono discs or from the radio.			"straight" ()
To listen to corrected sound from a tape deck.		"tape" ()	Set to any position.
Press the equalization switch (equalizer) in to the "off" () position to listen to uncorrected sound, or when recording.			

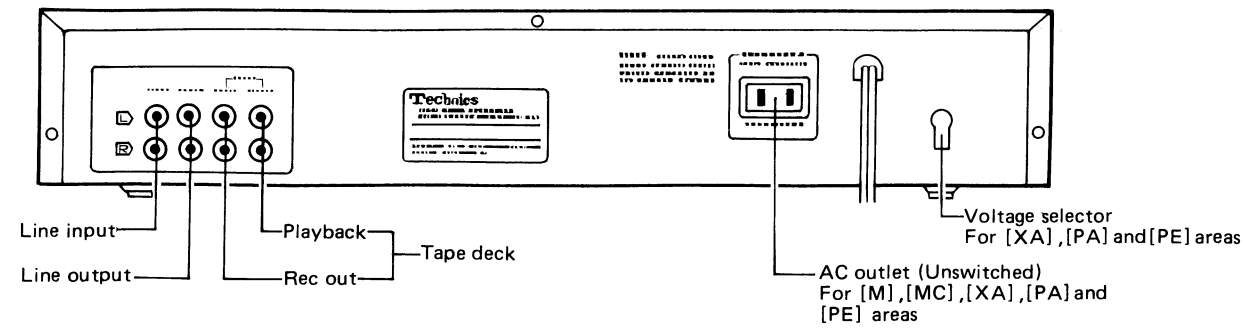
Notes

- If the amplifier has a recording mode selector and an input selector: (Make setting as shown in the figure.)

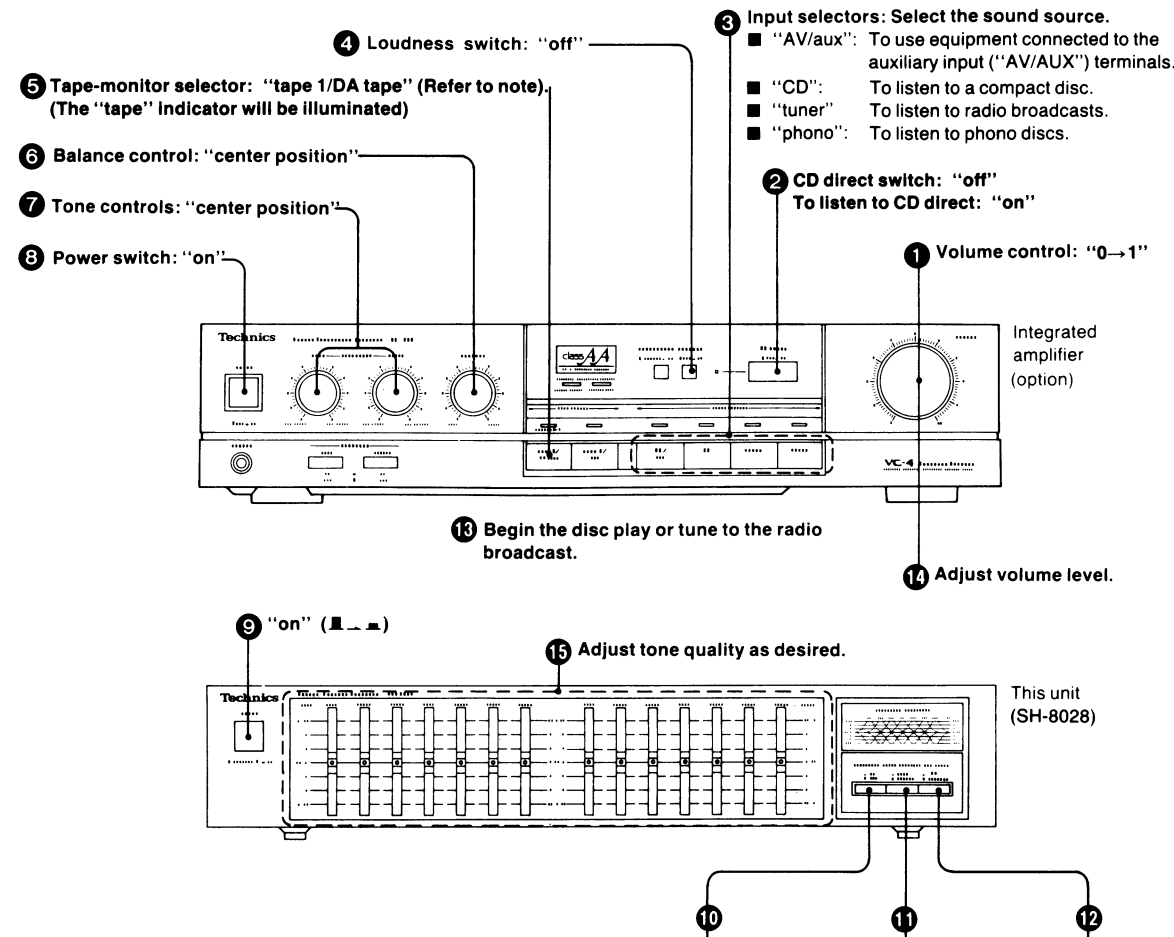


- If your amplifier has terminals (GRAPHIC EQ./EXTERNAL) for connection of other equipment, use of the recording selector is unnecessary.

Page	
Wiring Diagram	6
1	7, 8
2	9, 10
3	11, 12
4	11, 12



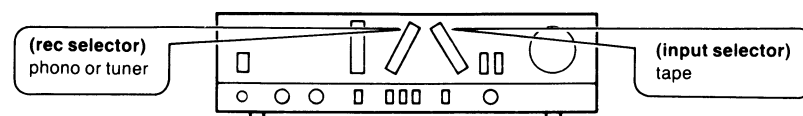
OPERATION



	equalizer	input selector	rec mode
To listen to corrected sound of phono discs or radio.	"on" (⏻)	"source" (🔊)	Set to any position.
To record corrected sound of phono discs or from radio.			"EQ" (⏻)
To record the uncorrected sound of phono discs or from the radio.		"straight" (🔊)	
To listen to corrected sound from a tape deck.		"tape" (⏻)	Set to any position.
Press the equalization switch (equalizer) in to the "off" (⏻) position to listen to uncorrected sound, or when recording.			

Notes

- If the amplifier has a recording mode selector and an input selector: (Make setting as shown in the figure.)



- If your amplifier has terminals (GRAPHIC EQ./EXTERNAL) for connection of other equipment, use of the recording selector is unnecessary.

DISASSEMBLY INSTRUCTIONS

Ref. No. 1 Procedure 1 How to remove the cabinet Remove the 5 screws (1 ~ 5)	Ref. No. 4 Procedure 1 → 2 → 4 How to remove the band level control volume P.C.B. - Push the 3 tabs aside. (a ~ c) - Remove the sub panel. - Remove the 14 knobs.
Ref. No. 2 Procedure 1 → 2 How to remove the front panel - Remove the 2 screws (1, 2) - The tabs with project (at 3 parts) from the front panel are engaged with the bottom board. - Remove the 2 connectors (J1, J2) of front panel.	How to fit the volume rod
Ref. No. 3 Procedure 1 → 2 → 3 How to remove the power supply P.C.B. and switch P.C.B. - Remove the 3 screws (1 ~ 3) of power supply P.C.B. - Remove the 4 screws (4 ~ 7) of switch P.C.B.	

RESISTORS & CAPACITORS

- Notes:
- 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
 - 2. 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.
 - 3. The "S" mark is service standard parts and may differ from production parts.
 - 4. The unit of resistance is Ω (ohm), K = 1000 Ω , M = 1000k Ω .
 - 5. The unit of capacitance is μ F (microfarad). P = 10⁻⁶ μ F
 - 6. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.

Numbering System of Resistor

Example

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value

Resistor Type	Wattage	Tolerance
ERD : Carbon	10 : 1/8W	J : $\pm$ 5%
ERG : Metal Oxide	1A : 1W	
	2A : 2W	
	S1 : 1/2W	

Numbering System of Capacitor

Example

<u>ECKD</u>	<u>1H</u>	<u>102</u>	<u>Z</u>	<u>F</u>
Type	Volgage	Value	Tolerance	Peculiarity

Capacitor Type	Voltage		Tolerance
	ECEA Type	Other	
ECEA : Electrolytic	0J : 6.3V	1C : 16V	K : ±10%
ECCD : Ceramic	1C : 16V	D : 25V	Z : +80%, -20%
ECKD : Ceramic	1E : 25V	1H : 50V	M : ±20%
ECF : Semi-conductor	1H : 50V	KC : 400V AC	

RESISTORS

Ref. No.	Part No.	Value
R1, 2	ERG1ANJ330	33
R3	ERDS2TJ222	2.2K
R4	ERDS2TJ472	4.7K
R5	ERDS2TJ473	47K
R6	ERDS2TJ273	27K
R7	ERDS2TJ562	5.6K
R8	ERDS2TJ103	10K
R9	ERDS2TJ224	220K
R11, 12	ERG2ANJ680	68
R101, 102	ERDS2TJ473	47K
R103, 104	ERDS2TJ102	1K
R105, 106	ERDS2TJ473	47K
R107, 108	ERDS2TJ104	100K
R109, 110	ERDS2TJ473	47K
R111, 112	ERDS2TJ472	4.7K
R113, 114	ERDS2TJ102	1K
R115, 116	ERDS2TJ104	100K

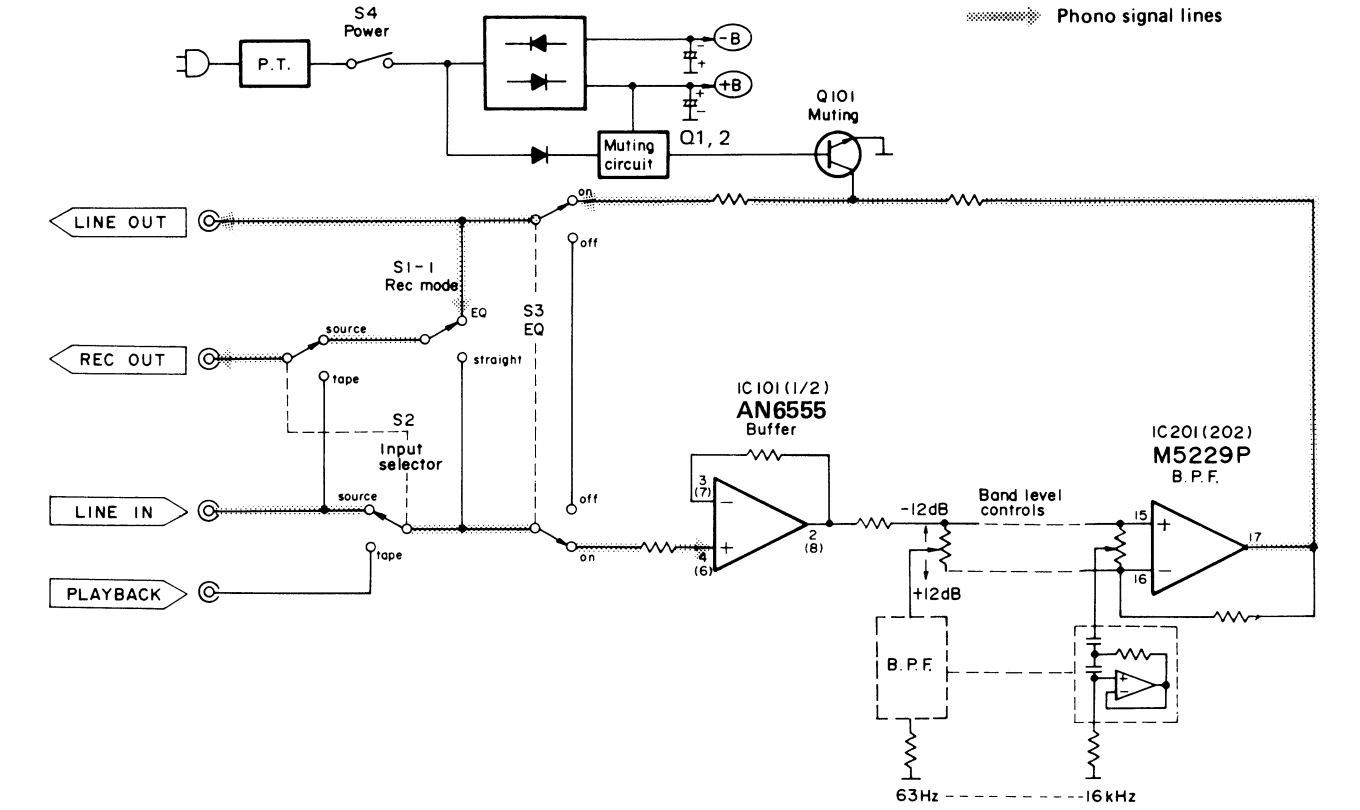
Ref. No.	Part No.	Value
R117, 118	ERDS2TJ181	180
R119, 120	ERDS2TJ102	1K
[EGA] only		
R121, 122	ERDS2TJ102	1K
[EGA] only		
R201, 202	ERDS2TJ222	2.2K
R203, 204	ERDS2TJ222	2.2K
R205, 206	ERDS2TJ222	2.2K
R207	ERDS1TJ681	680

Ref. No.	Part No.	Value
C1, 2	ECKD1H223ZF	0.022
C3, 4	ECEA1EU221	220
C5, 6	ECEA1CU221	220
C7	ECEA1EK4R7	4.7
C8	ECEA0JU101	100
C9	ECEA1EU101	100
C10, 11	ECKD1H223ZF	0.022
C21, 22	ECKD1H223ZF	0.022
C101, 102	ECEA1EK4R7	4.7
C103, 104	ECCD1H101K	100P
C105, 106	ECCD1H101K	100P
C107, 108	ECEA1EK4R7	4.7
C109, 110	ECCD1H151K	150P
[EGA] only		
C111, 112	ECCD1H151K	150P
[EGA] only		
C201, 202	ECKD1H471KB	470P

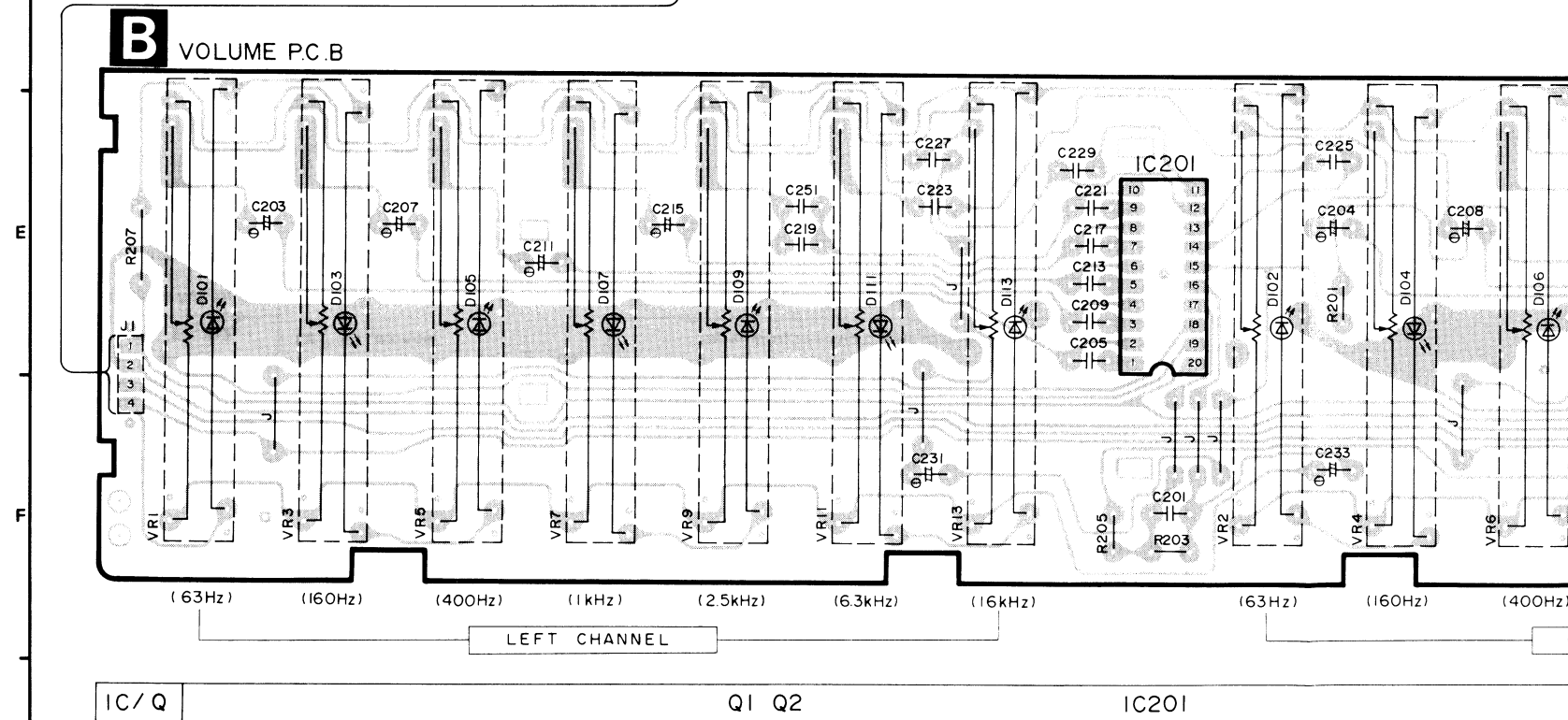
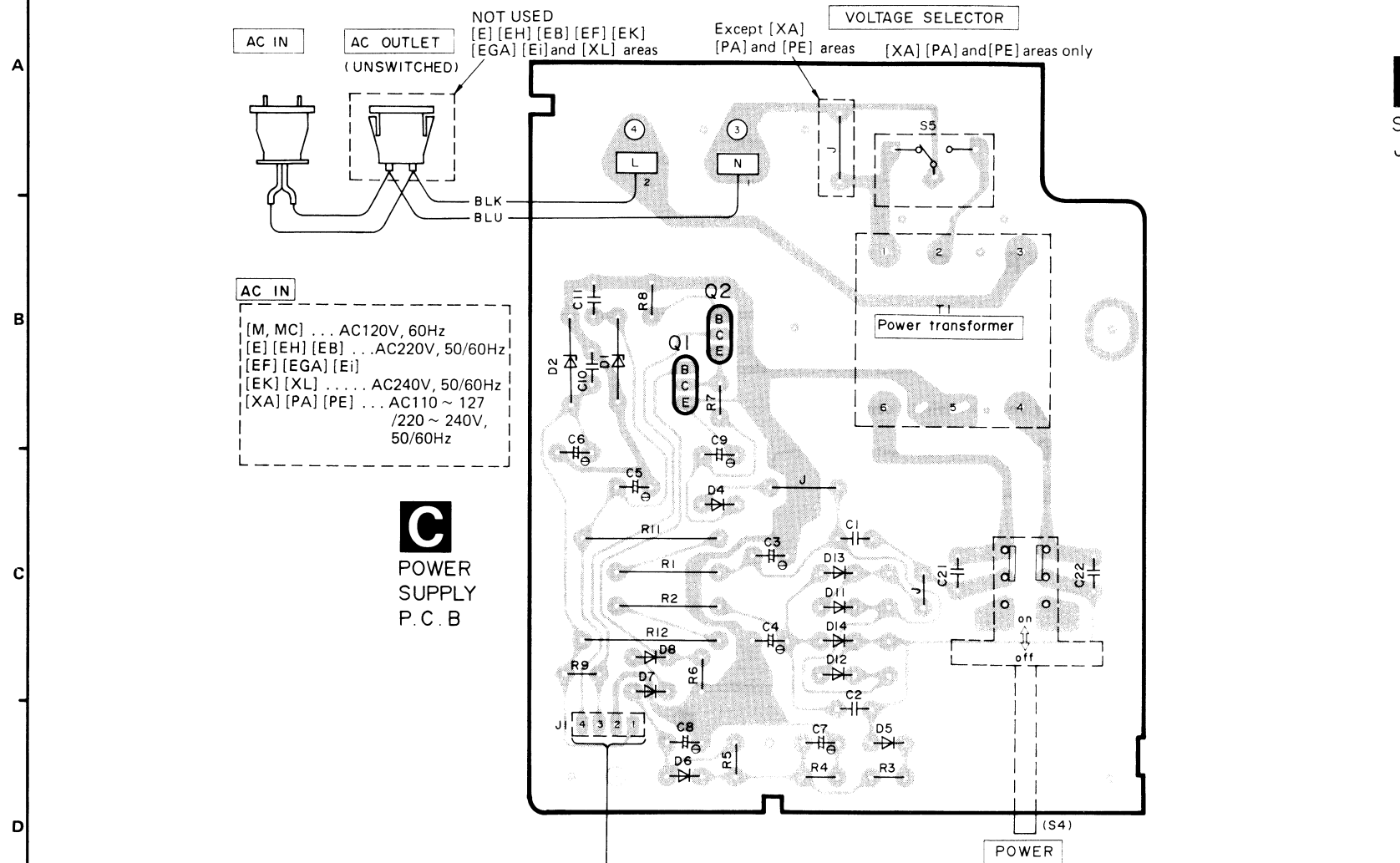
Ref. No.	Part No.	Value
C203, 204	ECEA1HK3R3	3.3
C205, 206	ECFTD683KXL	0.068
C207, 208	ECEA1HK010	1
C209, 210	ECFTD333KXL	0.033
C211, 212	ECEA1HKR47	0.47
C213, 214	ECFTD123KXL	0.012
C215, 216	ECEA1HKR22	0.22
C217, 218	ECFTD392KXL	0.0039
C219, 220	ECFTD473KXL	0.047
C221, 222	ECFTD182KXL	0.0018
C223, 224	ECFTD333KXL	0.033
C225, 226	ECKD1H681KB	680P
C227, 228	ECFTD123KXL	0.012
C229, 230	ECKD1H331KB	330P
C251, 252	ECFTD333KXL	0.033
C253, 254	ECKD1H223ZF	0.022

CAPACITORS

BLOCK DIAGRAM



CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM



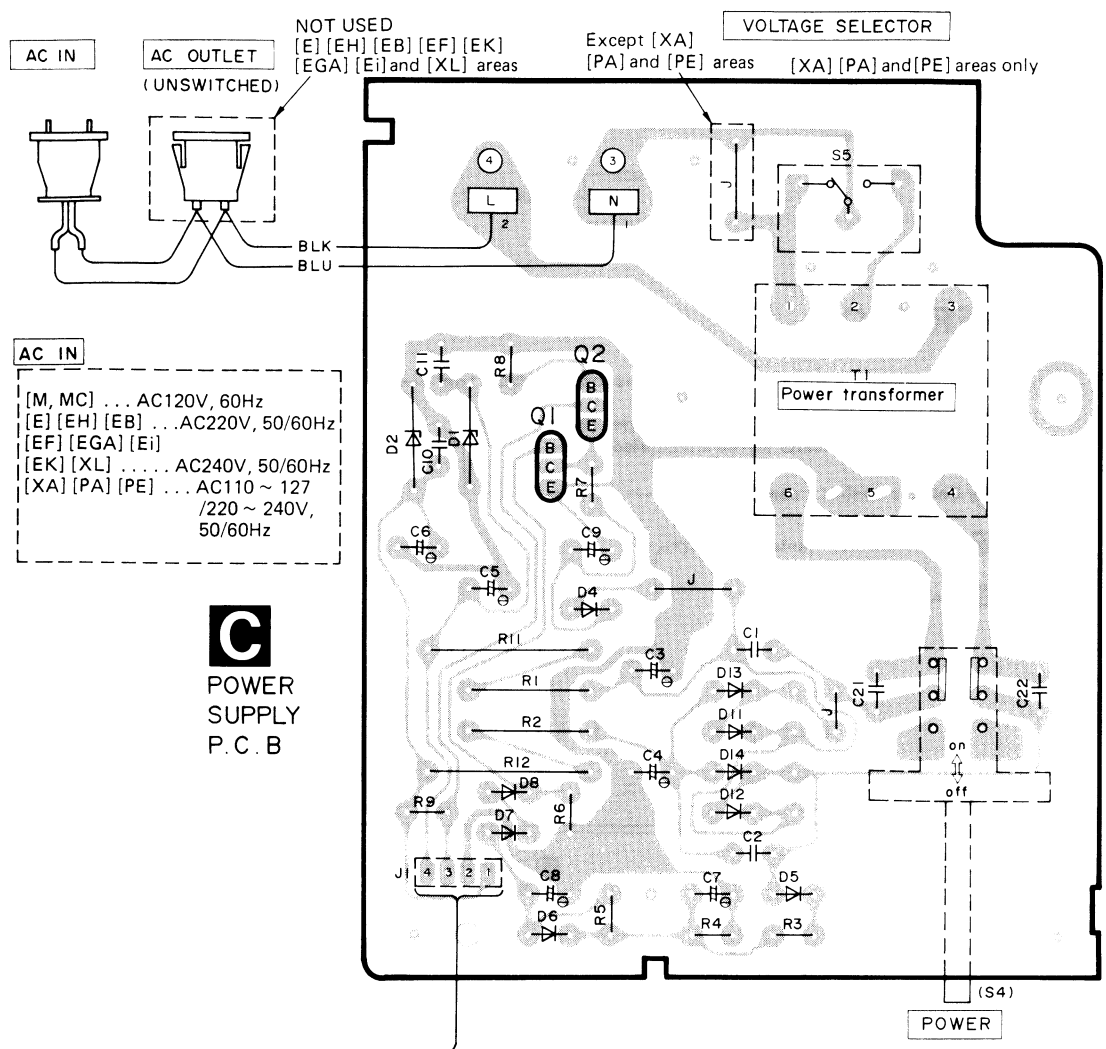
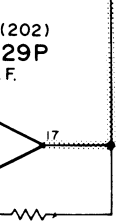
CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM

differ from
M = 1000kΩ.
= 10⁻⁶ μF
ify the area.
all areas.

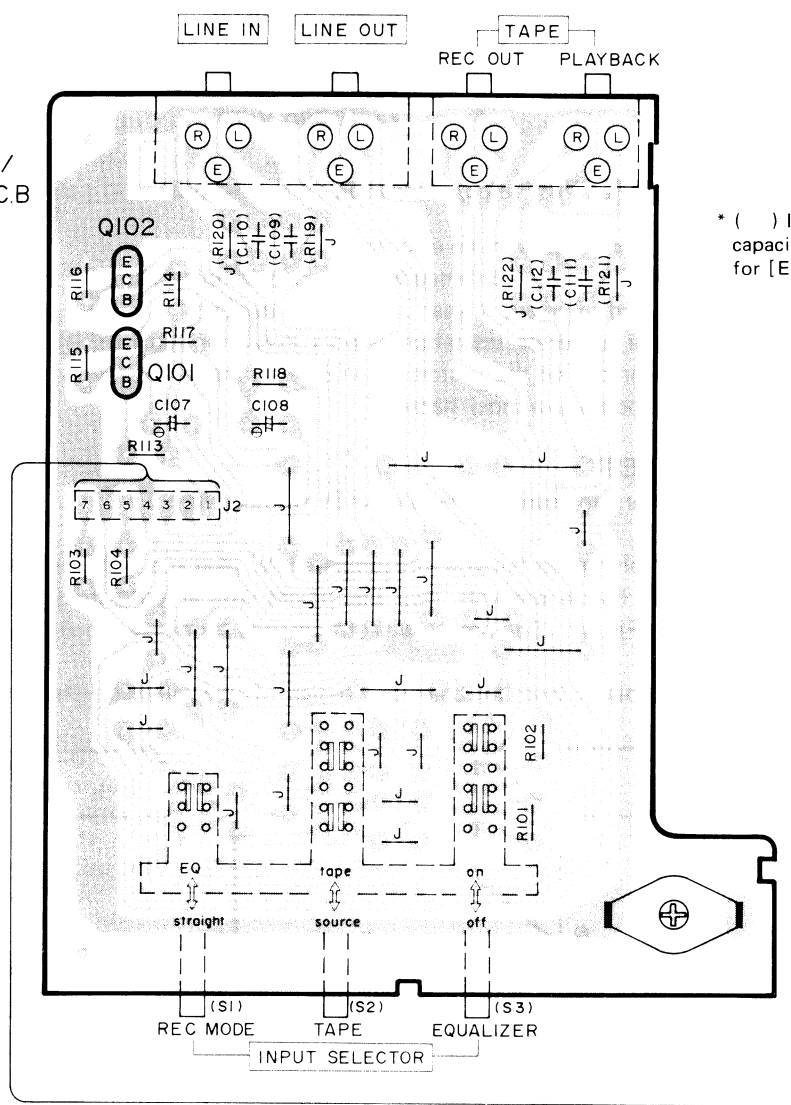
tolerance	
%	
%, -20%	
%	

Part No.	Value
1HK3R3	3.3
D683KXL	0.068
1HK010	1
D333KXL	0.033
1HKR47	0.47
D123KXL	0.012
1HKR22	0.22
D392KXL	0.0039
D473KXL	0.047
D182KXL	0.0018
D333KXL	0.033
1H681KB	680P
D123KXL	0.012
1H331KB	330P
D333KXL	0.033
1H223ZF	0.022

es

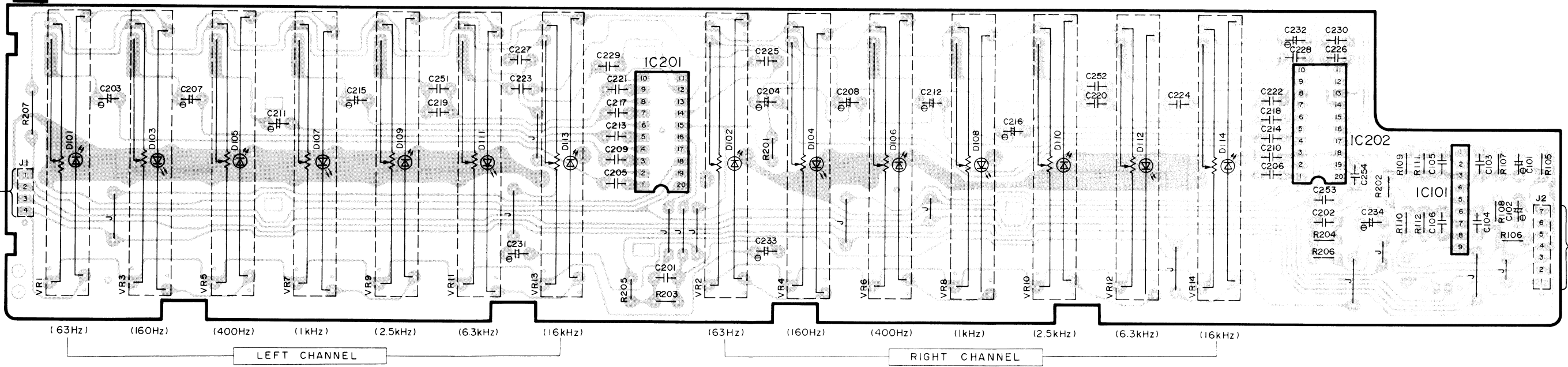


A SWITCH/JACK P.C.B



* () Indicates resistors and capacitors are use product for [EGA] area.

B VOLUME P.C.B



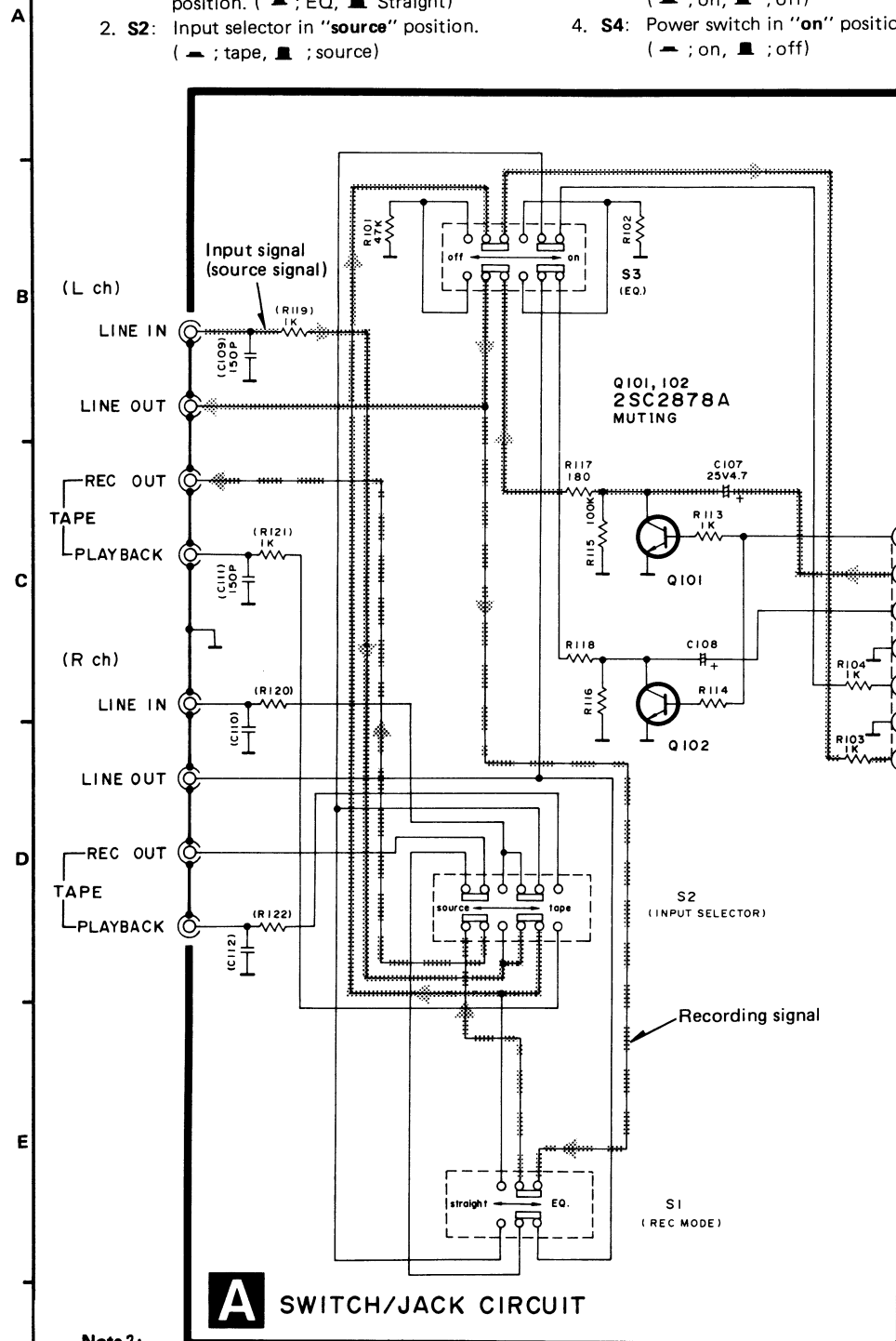
IC/Q	Q1 Q2	IC201	Q102 Q101	IC202	IC101
------	-------	-------	-----------	-------	-------

SCHEMATIC DIAGRAM

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

Note 1:

1. **S1**: Recording mode selector in "EQ" position. (; EQ, Straight)
2. **S2**: Input selector in "source" position. (; tape, ; source)
3. **S3**: Equalization switch in "on" position. (; on, ; off)
4. **S4**: Power switch in "on" position. (; on, ; off)
5. **S5**: Voltage selector in "220 ~ 240V" position (For [XA], [PA] and [PE] areas)



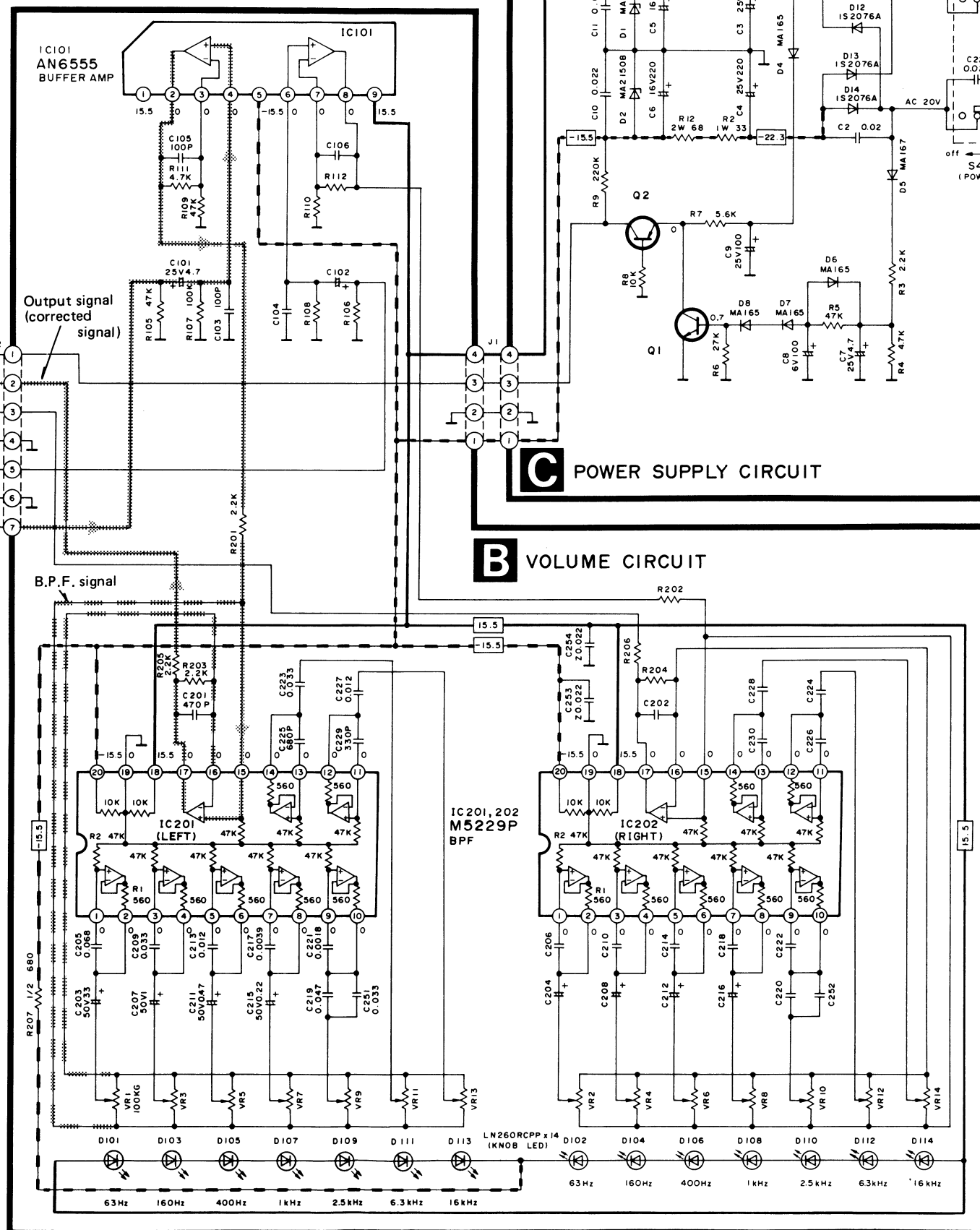
Note 2:

1. All voltage values shown in circuitry are the standard values for the DC electronic circuit tester (high-impedance) with the ground point taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
2. Positive and Negative voltage supply line.
3. Signal line (Left channel)

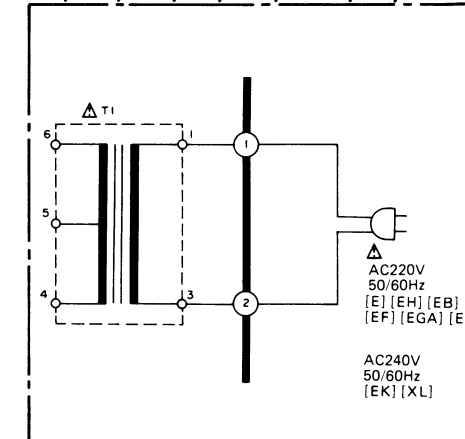
IMPORTANT SAFETY NOTICE

The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards. When servicing is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.

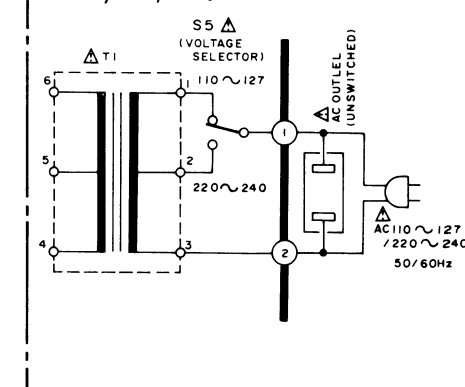
* () Indicates resistors and capacitors use product for [EGA] area.



[E, EH, EB, EF, EK, EGA, Ei, XL]



[XA, PA, PE]



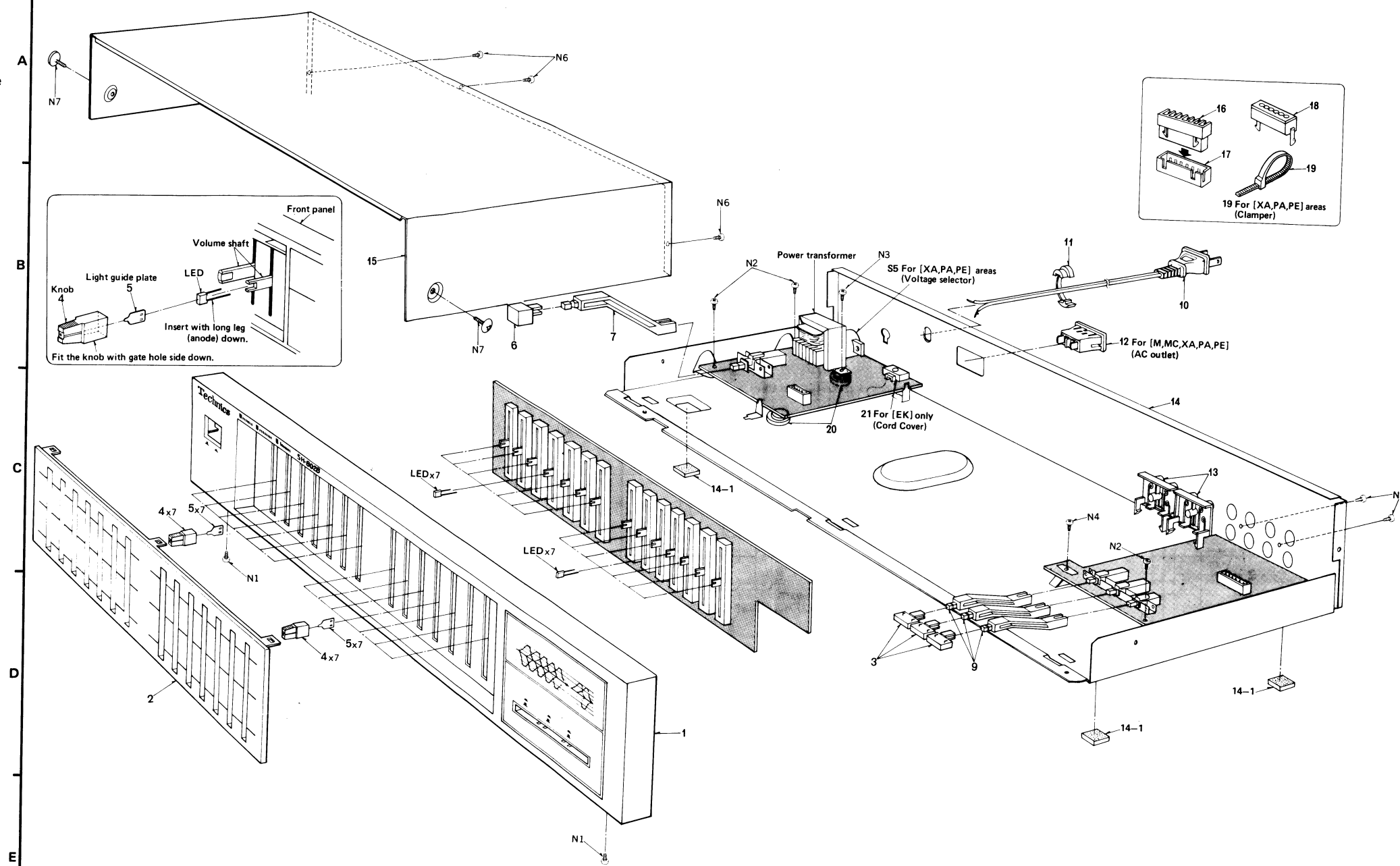
REPLACEMENT PARTS LIST

Notes:

- Part numbers are indicated on most mechanical parts. Please use this part number for parts order.
- 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.
- $\textcircled{K}$ —marked parts are used for black only, while $\textcircled{O}$ —marked parts are for silver type only.
- Part other than $\textcircled{K}$ — and $\textcircled{O}$ —marked are used for both black and silver type.
- Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
- The "S" mark is service standard parts and may differ from production parts.
- The parenthesized numbers in the column of description stand for the quantity per set.

Ref. No.	Part No.	Description
INTEGRATED CIRCUITS		
IC101	AN6555	IC
IC201, 202	M5229P	IC
TRANSISTORS		
Q1	2SC1815Y	Transistor
Q2	2SA1015Y	Transistor
Q101, 102	2SC2878A-T	Transistor
DIODES		
D1, 2	MA2150B	Diode
D4, 6~8	MA165	Diode
D5	MA167	Diode
D11~14	SVD1S2076A	Diode
D101~114	LN260RCPP	LED
TRANSFORMERS		
T1 [M, MC]	Δ SLTK511-M	Power Transformer
T1 [XA, PA, PE]	Δ SLTK513-W	Power Transformer
T1 [other]	Δ SLTK512-W	Power Transformer
VARIABLE RESISTORS		
VR1~14	EWAPW1J15G15	Variable Resistor
SWITCHES		
S1~3	SSHK62	Input Selector
S4	SSH1021	Power Source
S5 [XA, PA, PE]	Δ SSRK19	Voltage Selector

EXPLODED VIEW



Ref. No.	Part No.	Description
CABINET and CHASSIS PARTS		
1 [M, MC]	SGYH8028-SM	Front Panel Ass'y (1)
1 [other]	SGYH8028-SE	Front Panel Ass'y (1)
1 [M, MC]	SGYH8028-KM	Front Panel Ass'y (1)
1 [other]	SGYH8028-KE	Front Panel Ass'y (1)
2	SGXK110-3U	Sub Panel (1)
2	SGXK110U	Sub Panel (1)
3	SBCK51-1	Button, Selector (3)
3	SBCK51	Button, Selector (3)
4	SBWK27	Button, Control (14)
5	SBZK33	Light Guide Plate (14)
6	SBC666	Button, Power (1)
6	SBC666-3	Button, Power (1)
7	SUB215	Connection Rod, Power (1)

Ref. No.	Part No.	Description
CABINET and CHASSIS PARTS		
9	SUB91	Connection Rod, Selector (3)
10 [M]	RJA9YA-Y	AC Cord (1)
10	SJA169	AC Cord (1)
10 [MC]	QFC1205M	AC Cord (1)
10 [XL]	SJAG23	AC Cord (1)
10	RJA52YAK	AC Cord (1)
10 [PA, PE]	SFDAB31E01-M	AC Cord (1)
10 [other]	SFDAB31E01-M	AC Cord (1)
11	RHR111	Bushing, AC Cord (1)
11 [M, MC]	SHR129	Bushing, AC Cord (1)
11 [EK]	SHR127	Bushing, AC Cord (1)
11 [other]	SHR127	Bushing, AC Cord (1)
12	SJS9221-1	AC Outlet (1)
12 [M, XA, PA, PE]	SJS9223	AC Outlet (1)
12 [MC]	SJS9223	AC Outlet (1)

Ref. No.	Part No.	Description
CABINET and CHASSIS PARTS		
13	SJF3057N	Terminal Board IN/OUT (1)
14	SGPKH8028-KM	Rear Panel Ass'y (1)
14 [M, MC]	SGPKH8028-KE	Rear Panel Ass'y (1)
14 [E]	SGPKH8028-KG	Rear Panel Ass'y (1)
14 [EGA]	SGPKH8028-KG	Rear Panel Ass'y (1)
14 [EK]	SGPKH8028-KK	Rear Panel Ass'y (1)
14 [XL]	SGPKH8028-KL	Rear Panel Ass'y (1)
14 [XA, PA, PE]	SGPKH8028-KX	Rear Panel Ass'y (1)
14 [other]	SGPH8028-KH	Rear Panel Ass'y (1)
14-1	SKL293	Foot (4)
15	SKCK180S98	Cabinet (1)
15	SKCK180K99	Cabinet (1)
16	SJS5719	Connector (7 Pin) (1)
16	SJS5433	Connector (4 Pin) (1)
17	SJT3709	Post (7 Pin) (1)
17	SJT3415	Post (4 Pin) (1)

Ref. No.	Part No.	Description
CABINET and CHASSIS PARTS		
18	SJS50771DS	Socket (7 Pin) (1)
18	SJS50471DS	Socket (4 Pin) (1)
19 [XA, PA, PE]	SHR301	Clamper (1)
20	SHE185	Holder, P.C.B. (2)
21 [EK]	SFEZQ34G01	Cord Cover (1)
SCREWS		
N1	XTB3+8JFZ	Tapping, $\phi 3 \times 8$ (2)
N2	XTB3+8J	Tapping, $\phi 3 \times 8$ (3)
N3	XTB3+16J	Tapping, $\phi 3 \times 16$ (1)
N4	XTB3+8CFYR1	Tapping, $\phi 3 \times 8$ (1)
N5	XTB3+10GFZ	Tapping, $\phi 3 \times 10$ (2)
N6	XTB3+8JFN	Tapping, $\phi 3 \times 8$ (3)
N6	XTB3+8JFZ	Tapping, $\phi 3 \times 8$ (3)
N7	SNE2095-4	Cabinet (2)
N7	SNE2095-5	Cabinet (2)

Ref. No.	Part No.	Description
ACCESSORIES		
A1	SJPK2202	Connection Cord (2)
A2 [M]	SQFK10133	Instruction Book (1)
A2 [MC]	SQFK10134	Instruction Book (1)
A2 [EGA]	SQFK10138	Instruction Book (1)
A2	SQFK10135	Instruction Book (1)
[PA, PE]	SQFK10137	Instruction Book (1)
A2 [other]	SQFK10137	Instruction Book (1)
A3 [XA]	SJP5213-1	Plug, Adaptor (1)
A3 [PA, PE]	SJP5215	Plug, Adaptor (1)

Ref. No.	Part No.	Description
PACKING PARTS		
P1 [M]	SPGK254	Carton Box (1)
P1 [M]	SPGK253	Carton Box (1)
P1	SPGK252	Carton Box (1)
[MC]	SPGK220	Carton Box (1)
[M]	SPGK237	Carton Box (1)
P1 [EK]	SPGK222	Carton Box (1)
P1 [EF]	SPGK223	Carton Box (1)
P1	SPGK236	Carton Box (1)
[other]	SPGK219	Carton Box (1)
P2	SPSK97	Pad (Left) (1)
P3	SPSK98	Pad (Right) (1)
P4	SPP725	Polyethylene Sheet (1)
P4	SPPK48	Polyethylene Sheet (1)