ORDER NO. SD7907-1589

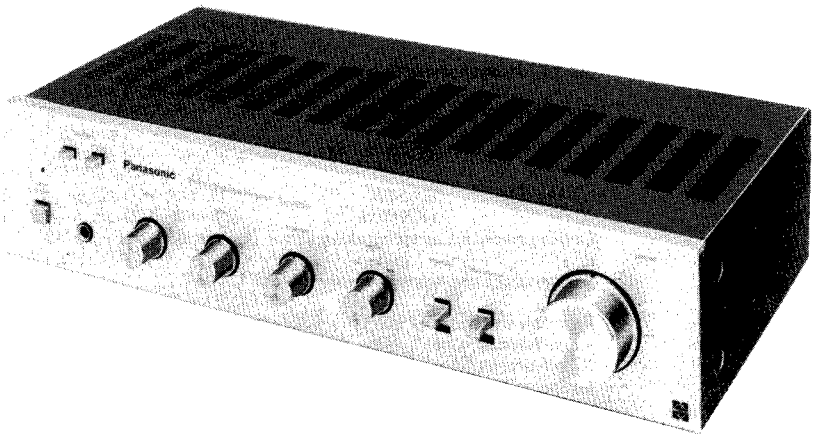
Service Manual

SU-2600

Stereo Integrated Amplifier

SU-2600

(EG), (XE), (EB)



* The model SU-2600 (EG) is available in Scandinavia and European.
* The model SU-2600 (XE) is available in United Kingdom.
* The model SU-2600 (EB) is available in Belgium.

TECHNICAL SPECIFICATIONS

Specifications are subject to change without notice for further improvement.

[DIN 45 500]

AMPLIFIER SECTION

20 Hz ~ 20 kHz continuous power output	
both channels driven	2 x 25 W (8Ω)
40 Hz ~ 16 kHz continuous power output	
both channels driven	2 x 25 W (4Ω), 2 x 25 W (8Ω)
1 kHz continuous power output	
both channels driven	2 x 27 W (4Ω), 2 x 27 W (8Ω)
Power bandwidth	
both channels driven, −3 dB	5 Hz ~ 50 kHz (4Ω)
	5 Hz ~ 60 kHz (8Ω)
Total harmonic distortion	
rated power at 20 Hz ~ 20 kHz	0.08% (8Ω)
rated power at 40 Hz ~ 16 kHz	0.15% (4Ω), 0.08% (8Ω)
rated power at 1 kHz	0.15% (4Ω), 0.08% (8Ω)
half power at 20 Hz ~ 20 kHz	0.03% (8Ω)
half power at 1 kHz	0.03% (8Ω)
−26 dB power at 1 kHz	0.15% (4Ω)
50mW power at 1 kHz	0.2% (4Ω)
Intermodulation distortion	
rated power at 250 Hz: 8 kHz = 4:1, 4Ω	0.15%
rated power at 60 Hz: 7 kHz = 4:1, SMPTE, 8Ω	0.08%
Residual hum & noise	0.6 mV
Damping factor	15 (4Ω), 30 (8Ω)
Input sensitivity and impedance	
PHONO	2.5 mV/47 kΩ
TUNER, AUX	150 mV/27 kΩ
TAPE 1, PLAYBACK	180 mV/33 kΩ
PHONO maximum input voltage (1 kHz, RMS)	100 mV
S/N	
rated power at 4Ω PHONO	74 dB (IHF, A: 80 dB)
TUNER, AUX, TAPE	83 dB (IHF, A: 97 dB)
−26 dB power at 4Ω PHONO	62 dB
TUNER, AUX, TAPE	62 dB
50 mW power at 4Ω PHONO	62 dB
TUNER, AUX, TAPE	62 dB
Frequency response PHONO	RIAA standard curve
	30 Hz ~ 15 kHz, ±1.0 dB
TUNER, AUX, TAPE	20 Hz ~ 20 kHz, ±0.8 dB
	10 Hz ~ 50 kHz, −1 dB
Tone controls BASS	50 Hz, +10 dB ~ −10 dB
TREBLE	20 kHz, +10 dB ~ −10 dB
Loudness switch (volume at −30 dB)	50 Hz, +9 dB
Output voltage and impedance REC OUT	150 mV
REC/PLAY	30 mV/82 kΩ
Channel balance (250 Hz ~ 6300 Hz), AUX	±1.0 dB
Channel separation at 1 kHz, AUX	55 dB
Headphones output level and impedance	330 mV/330Ω
Load impedance MAIN or REMOTE	4 ~ 16Ω
MAIN + REMOTE	8 ~ 16Ω

GENERAL

Power consumption	300 W
Power supply (50 Hz/60 Hz)	110V/120V/220V/240V
Dimensions (W x H x D)	430 x 97 x 240 mm
	(16-29/32"x3-13/16"x9-7/16")
Weight	5.0 kg (11.0 lb.)

■ CONTENTS

National Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

TECHNISCHE DATEN

Spezifikationen können infolge von Verbesserungen ohne Ankündigung geändert werden.

[DIN 45 500]

VERSTÄRKERTEIL

Dauertonleistung bei 20 Hz ~ 20 kHz
beide Kanäle zusammen ausgesteuert 2 x 25 W (8Ω)
Dauertonleistung bei 40 Hz ~ 16 kHz
beide Kanäle zusammen ausgesteuert 2 x 25 W (4Ω)
2 x 25 W (8Ω)
Dauertonleistung bei 1 kHz
beide Kanäle zusammen ausgesteuert
2 x 27 W (4Ω), 2 x 27 W (8Ω)
Leistungsbandbreite
beide Kanäle zusammen ausgesteuert, –3 dB
5 Hz ~ 50 kHz (4Ω)
5 Hz ~ 60 kHz (8Ω)
Harmonische Verzerrungen
Nennausgangsleistung bei 20 Hz ~ 20 kHz 0,08% (8Ω)
Nennausgangsleistung bei 40 Hz ~ 16 kHz
0,15% (4Ω), 0,08% (8Ω)
Nennausgangsleistung bei 1 kHz 0,15% (4Ω), 0,08% (8Ω)
Halber Ausgangsleistung bei 20 Hz ~ 20 kHz 0,03% (8Ω)
Halber Ausgangsleistung bei 1 kHz 0,03% (8Ω)
–26 dB Ausgangsleistung bei 1 kHz 0,15% (4Ω)
50 mW Ausgangsleistung bei 1 kHz 0,2% (4Ω)
Intermodulationsverzerrung
Nennausgangsleistung bei 250 Hz: 8 kHz = 4:1, 4Ω 0,15%
Nennausgangsleistung bei 60 Hz: 7 kHz = 4:1, SMPTE 8Ω
0,08%
Brummen & Rauschen 0,6 mV
Dämpfungsfaktor 15 (4Ω), 30 (8Ω)
Eingangsempfindlichkeit & Impedanz
PHONO 2,5 mV/47 kΩ
TUNER, AUX 150 mV/27 kΩ
TAPE 1, PLAYBACK 180 mV/33 kΩ
PHONO Maximale Eingangsspannungen (1 kHz RMS) 100 mV
Fremdspannungsabstand
Nennausgangsleistung bei 4Ω
PHONO 74 dB (IHF, A: 80 dB)
TUNER, AUX, TAPE 83 dB (IHF, A: 97 dB)
–26 dB Ausgangsleistung bei 4Ω PHONO 62 dB
TUNER, AUX, TAPE 62 dB
50 mW Ausgangsleistung bei 4Ω PHONO 62 dB
TUNER, AUX, TAPE 62 dB
Frequenzgang PHONO RIAA Standardkurve
30 Hz ~ 15 kHz, ±1,0 dB
TUNER, AUX, TAPE 20 Hz ~ 20 kHz, ±0,8 dB
10 Hz ~ 50 kHz, –1 dB
Klangregler BÄSSE 50 Hz, +10 dB ~ –10 dB
HÖHEN 20 kHz, +10 dB ~ –10 dB
Gehörgerechte Lautstärkekorrektur (Lautstärke bei –30 dB)
50 Hz, +9 dB
Ausgangsspannungen & Impedanz REC OUT 150 mV
REC/PLAY 30 mV/82 kΩ
Kanalabweichung (250 Hz ~ 6300 Hz), AUX ±1,0 dB
Kanaltrennung bei 1 kHz, AUX 55 dB
Kopfhörerpegel und Ausgangsimpedanz 330 mV/330Ω
Lautsprecher-Ausgangsimpedanz
MAIN oder REMOTE 4 ~ 16Ω
MAIN und REMOTE 8 ~ 16Ω

ALLGEMEINE DATEN

Leistungsaufnahme 300 W
Netzspannung umschaltbar (50 Hz/60 Hz)
110V/120V/220V/240V
Abmessungen (B x H x T) 430 x 97 x 240 mm
Gewicht 5,0 kg

CARACTERISTIQUES TECHIQUES

Sujet à changement sans préaris.

[DIN 45 500]

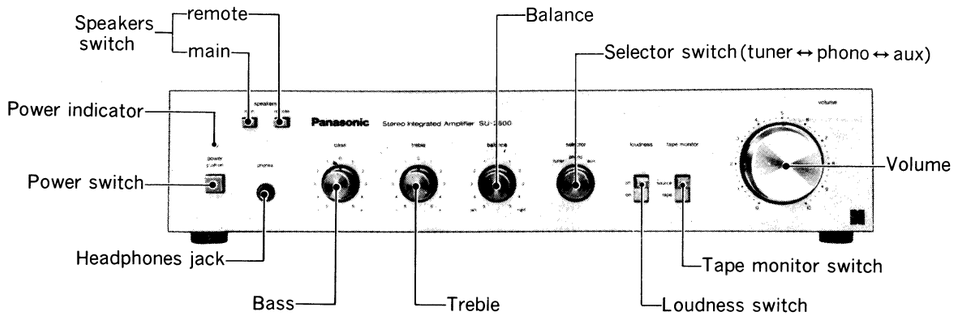
PARTIE AMPLIFICATEUR

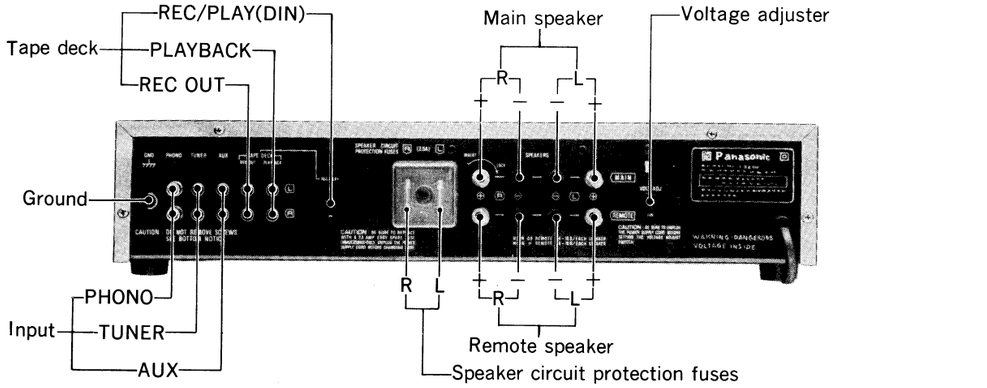
Puissance de sortie continue de 20 Hz ~ 20 kHz
les deux canaux en circuit avec distorsion 2 x 25 W (8Ω)
Puissance de sortie continue de 40 Hz ~ 16 kHz
les deux canaux en circuit avec distorsion 2 x 25 W (4Ω)
2 x 25 W (8Ω)
Puissance de sortie continue à 1 kHz
les deux canaux en circuit avec distorsion 2 x 27 W (4Ω)
2 x 27 W (8Ω)
Largeur de bande de puissance
pour l'ensemble des canaux excités, –3 dB
5 Hz ~ 50 kHz (4Ω)
5 Hz ~ 60 kHz (8Ω)
Distorsion harmonique totale
pour la puissance mesurée à 20 Hz ~ 20 kHz 0,08% (8Ω)
pour la puissance mesurée à 40 Hz ~ 16 kHz
0,15% (4Ω), 0,08% (8Ω)
pour la puissance mesurée à 1 kHz
0,15% (4Ω), 0,08% (8Ω)
pour la demi-puissance mesurée à 20 Hz ~ 20 kHz
0,03% (8Ω)
pour la demi-puissance mesurée à 1 kHz 0,03% (8Ω)
pour une puissance mesurée de –26 dB, 1 kHz 0,15% (4Ω)
pour une puissance mesurée de 50 mW, 1 kHz 0,2% (4Ω)
Distorsion d'intermodulation
pour la puissance mesurée à 250 Hz: 8 kHz = 4:1, 4Ω 0,15%
pour la puissance mesurée à 60 Hz: 7 kHz = 4:1, 8Ω 0,08%
Tension résiduelle de bruit 0,6 mV
Facteur d'amortissement 15 (4Ω), 30 (8Ω)
Sensibilité & impédance d'entrée
PHONO 2,5 mV/47 kΩ
TUNER, AUX 150 mV/27 kΩ
TAPE 1, PLAYBACK 180 mV/33 kΩ
Voltage d'entrée maximum (PHONO, 1 kHz, RMS) 100 mV
Repport signal/bruit
pour la puissance nominale, 4Ω
PHONO 74 dB (IHF, A: 80 dB)
TUNER, AUX, TAPE 83 dB (IHF, A: 97 dB)
pour une sortie de –26 dB, 4Ω PHONO 62 dB
TUNER, AUX, TAPE 62 dB
pour une sortie de 50 mW, 4Ω PHONO 62 dB
TUNER, AUX, TAPE 62 dB
Réponse de fréquence
PHONO Courbe standard RIAA
30 Hz ~ 15 kHz, ±1,0 dB
TUNER, AUX, TAPE 20 Hz ~ 20 kHz, ±0,8 dB
10 Hz ~ 50 kHz, –1 dB
Réglage de la tonalité
BASS (graves) 50 Hz, +10 dB ~ –10 dB
TREBLE (aigus) 20 kHz, +10 dB ~ –10 dB
Correction physiologique (volume à 30 dB) 50 Hz, +9 dB
Tension de sortie & impédance REC OUT 150 mV
REC/PLAY 30 mV/82 kΩ
Equilibrage de canaux (250 Hz ~ 6300 Hz), AUX ±1,0 dB
Séparation des canaux AUX 1 kHz 55 dB
Niveau du casque et impédance de sortie 330 mV/330Ω
Impédance de charge PRINCIPALE ou ELOIGNEE 4 ~ 16Ω
PRINCIPAE + ELOIGNEE 8 ~ 16Ω

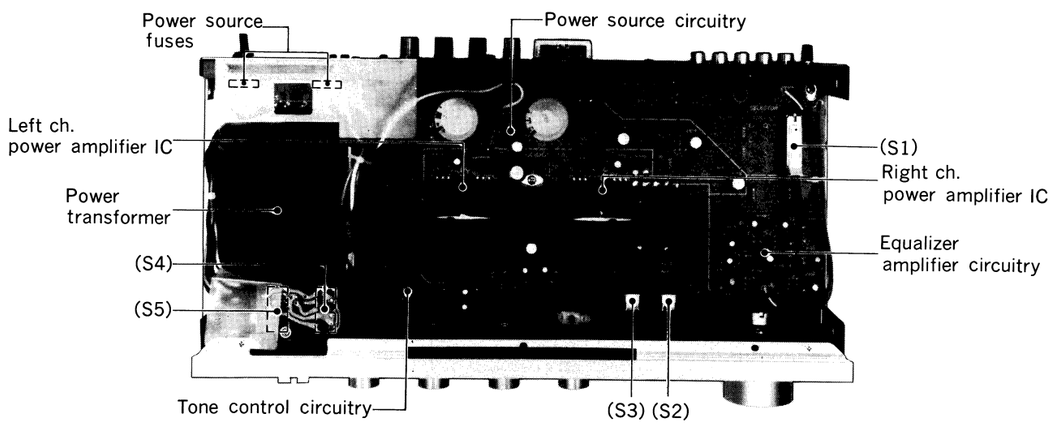
GENERALITES

Consommation 300 W
Alimentation (50 Hz/60 Hz) 110V/120V/220V/240V
Dimensions (L x H x Pr) 430 x 97 x 240 mm
Poids 5,0 kg

■ LOCATION OF CONTROLS







■ NOTE

The unit is provided with the speaker circuit protection fuses at the right and left channels respectively. The fuse is to prevent the power IC from destruction, should the speaker terminals be short-circuited. Accordingly, if the unit fails to function upon completion of the speaker connections, check the speaker circuit protection fuses first of all for possible blowing.

■ HOW TO REMOTE THE CABINET, BOTTOM BOARD AND FRONT PANEL

How to remove the cabinet

1. Remove the 4 setscrews (① ~ ④ in Fig. 1) on the side and 4 setscrews (⑤ ~ ⑧ in Fig. 2) on the back of the cabinet.
2. Shift the cabinet backward and lift it upward. (Arrow Ⓐ in Fig. 1)

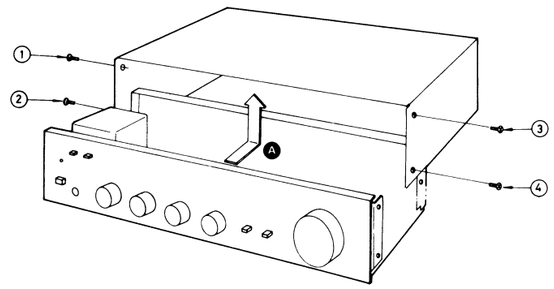


Fig. 1

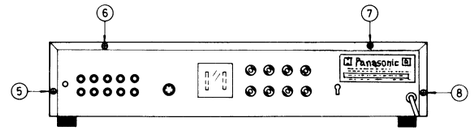


Fig. 2

How to detach the bottom board

1. Remove the 4 setscrews (⑩ ~ ⑬ in Fig. 3) used to secure bottom board and 4 setscrews (⑭ ~ ⑰ in Fig. 3) for the legs. Then the bottom board can be detached.

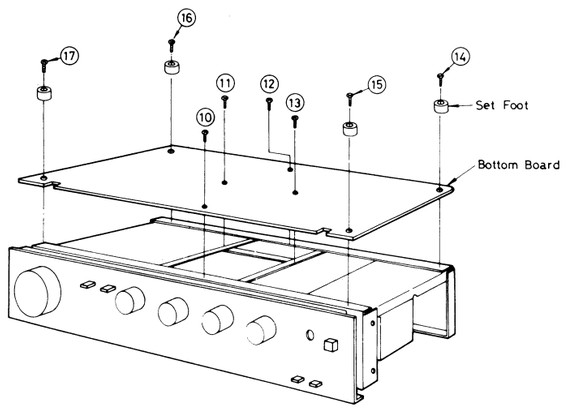


Fig. 3

■ NOTE

The unit is provided with the speaker circuit protection fuses at the right and left channels respectively. The fuse is to prevent the power IC from destruction, should the speaker terminals be short-circuited. Accordingly, if the unit fails to function upon completion of the speaker connections, check the speaker circuit protection fuses first of all for possible blowing.

■ HOW TO REMOTE THE CABINET, BOTTOM BOARD AND FRONT PANEL

How to remove the cabinet

1. Remove the 4 setscrews (① ~ ④ in Fig. 1) on the side and 4 setscrews (⑤ ~ ⑧ in Fig. 2) on the back of the cabinet.
2. Shift the cabinet backward and lift it upward. (Arrow Ⓐ in Fig. 1)

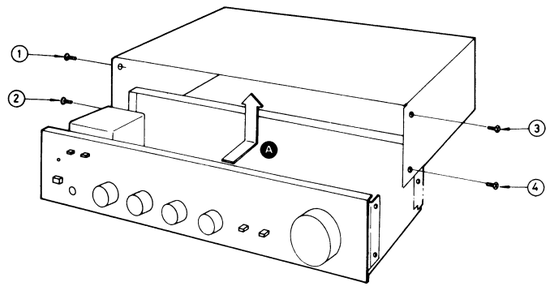


Fig. 1

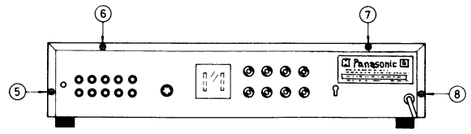


Fig. 2

How to detach the bottom board

1. Remove the 4 setscrews (⑩ ~ ⑬ in Fig. 3) used to secure bottom board and 4 setscrews (⑭ ~ ⑰ in Fig. 3) for the legs. Then the bottom board can be detached.

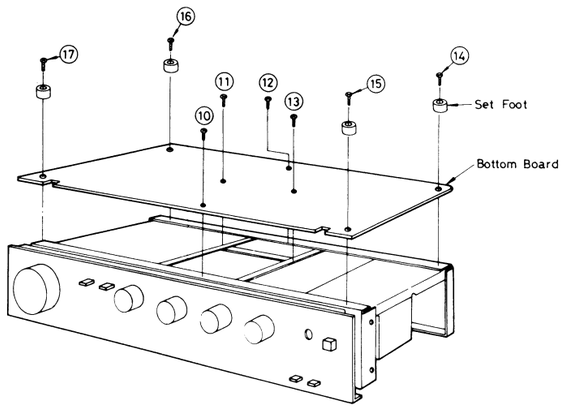
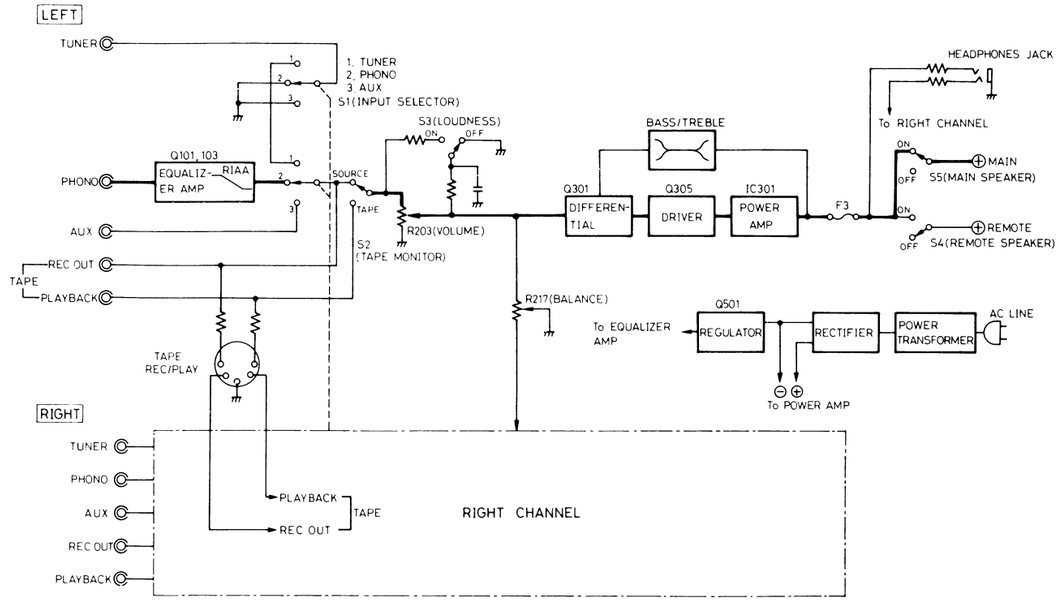


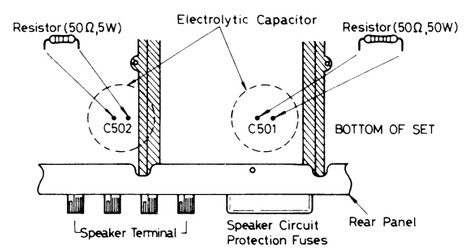
Fig. 3

■ BLOCK DIAGRAM



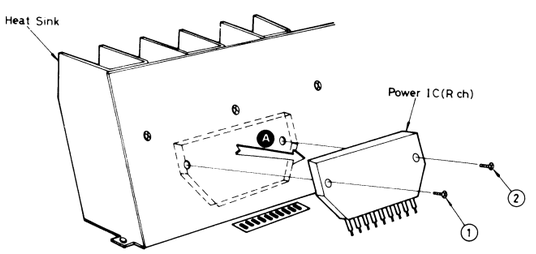
■ BEFORE STARTING THE REPAIRING

Before adjusting or repairing, be sure to short-circuit opposite poles of the 6800μF capacitors (C501, 502) with a resistor approximately of "50Ω, 5W" for discharging the charged voltage.
Short-circuiting with a screw driver and the like is not only dangerous, but may destroy transistors and diodes, and should therefore be avoided.



■ HOW TO REMOVE THE POWER IC

1. Remove the solder of power IC.
2. Remove the 2 setscrews (①, ② in figure. 5) used to secure the power IC on the heat sink, and then pull the power IC in the direction of arrow Ⓐ.
3. When mounting the power IC, apply silicone compound (or equivalent heat diffuser) to the back of power IC, and then follow the steps 1 ~ 2 reversely.

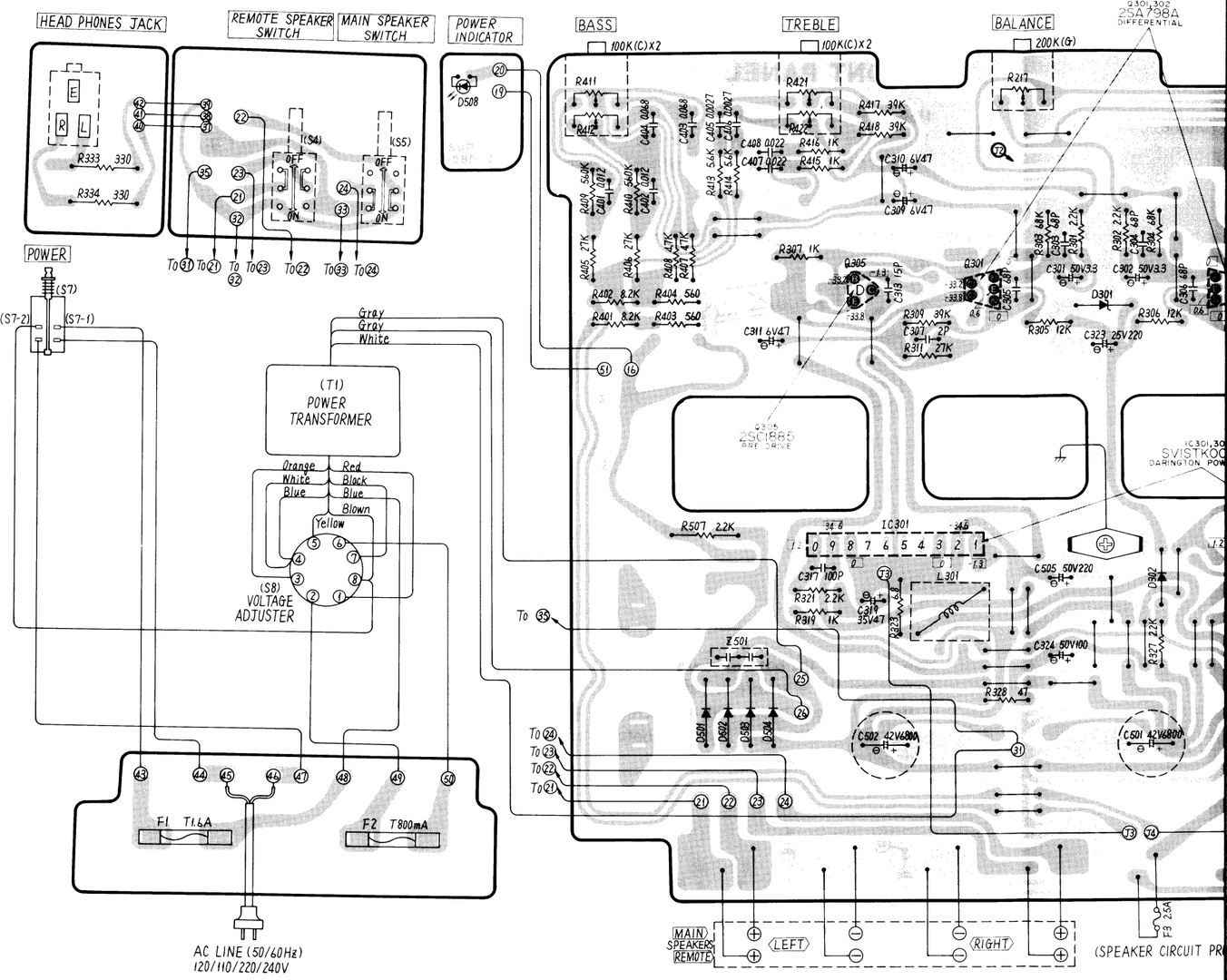


■ REPLACEMENT PARTS LIST (Electric Parts)

Notes: 1. Part numbers are indicated on most mechanical parts.
Please use this part number for parts order.
2. ⚠ indicates that only parts specified by the manufacturer be used for safety.

Ref. No.		Part No.	Part Name & Description
INTEGRATED CIRCUITS			
IC301, 302		SVISTK0029N	IC, Darington Power Pack
TRANSISTORS			
Q101, 102		**2SC1328–T**	Transistor, Equalizer Amplifier
Q103, 104		2SA1015L–G	Transistor, Equalizer Amplifier (Use in ranks Y or G)
Q301, 302		**2SA798A–G2**	Transistor, Differential Amplifier
Q305, 306		2SC1885–R	Transistor, Pre Drive (Use in ranks Q, R or S)
Q501		2SC1815–Y	Transistor, Ripple Filter (Use in ranks Y or O)
DIODES			
D101, 302		**MA161**	Diode, Bias
D301		SVDMZ316B	Diode, Zener 16V
D501, 502, 503, 504	⚠	SVDS2V20	Rectifier
D508		**LN26RP**	Diode, Power Indicator
COILS and TRANSFORMER			
L301, 302		SLQY15G–3P	Coil, Choke
T1	⚠	SLT5M89–1	Transformer, Power
COMPONENT COMBINATION			
Z501		EXRFS203ZS	Component Combination, 0.01μF (X2)
FUSES			
F1	⚠	XBA2C16TR0	Fuse, T1.6A (250V) P.T. Primary
F2	⚠	XBA2C08TR0	Fuse, T800mA (250V) P.T. Primary
F3, 4	⚠	XBA2C25SS0	Fuse, 2.5A (250V) Speaker Circuit
SWITCHES			
S1		ESA2691	Switch, Input Selector
S2, 3		SSL121	Switch, Tape Monitor & Loudness
S4, 5		SSH263	Switch, Speakers Selector
S7	⚠	ESB70133	Switch, Power
S8	⚠	ESE37200	Switch, Voltage Adjuster
VARIABLE RESISTORS			
R203, 204		EWF6LA031BF5	Volume Control, 250kΩ (B)
R217		EVHFDA505G25	Balance Control, 200kΩ (G)
R411, 412, 421, 422		EWKGSA091C15	Bass & Treble Control, 100kΩ (C)
RESISTORS			
R101, 102		**ERD25FJ391**	Carbon, 390Ω, 1/4W, ± 5%
R103, 104		**ERD25TJ224**	Carbon, 220kΩ, 1/4W, ± 5%
R105, 106		**ERD25TJ563**	Carbon, 56kΩ, 1/4W, ± 5%
R107, 108		**ERD25FJ271**	Carbon, 270Ω, 1/4W, ± 5%
R109, 110		ERD25TSJ223	Carbon, 22kΩ, 1/4W, ± 5%
R111, 112		ERD25TSJ153	Carbon, 15kΩ, 1/4W, ± 5%
R113, 114		**ERD25FJ821**	Carbon, 820Ω, 1/4W, ± 5%
R115, 116		**ERD25FJ822**	Carbon, 8.2kΩ, 1/4W, ± 5%
R117, 118		**ERD25FJ680**	Carbon, 68Ω, 1/4W, ± 5%
R119, 120		**ERD25TJ224**	Carbon, 220kΩ, 1/4W, ± 5%
R121, 122		**ERD25TJ123**	Carbon, 12kΩ, 1/4W, ± 5%
R123, 124		**ERD25TJ104**	Carbon, 100kΩ, 1/4W, ± 5%
R127, 128		**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R129		**ERD25TJ274**	Carbon, 270kΩ, 1/4W, ± 5%
R130		**ERD25TJ333**	Carbon, 33kΩ, 1/4W, ± 5%
R131	⚠	**ERD25FJ101**	Carbon, 100Ω, 1/4W, ± 5%
R201, 202		**ERD25FJ472**	Carbon, 4.7kΩ, 1/4W, ± 5%
R205, 206		**ERD25TJ393**	Carbon, 39kΩ, 1/4W, ± 5%
R207, 208		**ERD25TJ104**	Carbon, 100kΩ, 1/4W, ± 5%
R209, 210		**ERD25TJ394**	Carbon, 390kΩ, 1/4W, ± 5%
R211, 212		**ERD25TJ124**	Carbon, 120kΩ, 1/4W, ± 5%
R213, 214		**ERD25FJ472**	Carbon, 4.7kΩ, 1/4W, ± 5%
R215, 216		**ERD25FJ472**	Carbon, 4.7kΩ, 1/4W, ± 5%
R221, 222		**ERD25TJ224**	Carbon, 220kΩ, 1/4W, ± 5%
R223, 224		**ERD25TJ224**	Carbon, 220kΩ, 1/4W, ± 5%
R301, 302		**ERD25FJ222**	Carbon, 2.2kΩ, 1/4W, ± 5%
R303, 304		**ERD25TJ683**	Carbon, 68kΩ, 1/4W, ± 5%
R305, 306		**ERD25TJ123**	Carbon, 12kΩ, 1/4W, ± 5%
R307, 308	⚠	**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R309, 310		**ERD25TJ393**	Carbon, 39kΩ, 1/4W, ± 5%
R311, 312		**ERD25TJ273**	Carbon, 27kΩ, 1/4W, ± 5%
R319, 320	⚠	**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R321, 322	⚠	**ERD25FJ222**	Carbon, 2.2kΩ, 1/4W, ± 5%
R323, 324	⚠	ERD50FJ6R8	Carbon, 6.8Ω, 1/2W, ± 5%
R327	⚠	**ERD25FJ222**	Carbon, 2.2kΩ, 1/4W, ± 5%
R328	⚠	**ERD25FJ470**	Carbon, 47Ω, 1/4W, ± 5%
R333, 334		**ERG1ANJ331**	Metal Oxide, 330Ω, 1W, ± 5%
R337	⚠	**ERD25FJ181**	Carbon, 180Ω, 1/4W, ± 5%
R401, 402		**ERD25FJ822**	Carbon, 8.2kΩ, 1/4W, ± 5%
R403, 404		**ERD25FJ561**	Carbon, 560Ω, 1/4W, ± 5%
R405, 406		**ERD25TJ273**	Carbon, 27kΩ, 1/4W, ± 5%
R407, 408		**ERD25FJ472**	Carbon, 4.7kΩ, 1/4W, ± 5%
R409, 410		**ERD25TJ564**	Carbon, 560kΩ, 1/4W, ± 5%
R413, 414		**ERD25FJ562**	Carbon, 5.6kΩ, 1/4W, ± 5%
R415, 416		**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R417, 418		**ERD25TJ393**	Carbon, 39kΩ, 1/4W, ± 5%
R501	⚠	**ERD25FJ101**	Carbon, 100Ω, 1/4W, ± 5%
R502	⚠	**ERD25FJ102**	Carbon, 1kΩ, 1/4W, ± 5%
R503		**ERD25TJ153**	Carbon, 15kΩ, 1/4W, ± 5%
R504		**ERD25TJ273**	Carbon, 27kΩ, 1/4W, ± 5%
R505		**ERD25FJ821**	Carbon, 820Ω, 1/4W, ± 5%
R507		**ERG1ANJ222**	Metal Oxide, 2.2kΩ, 1W, ± 5%
CAPACITORS			
C101, 102		**ECEA50M3R3R**	Electrolytic, 3.3μF, 50V
C103, 104		ECCD1H101K	Ceramic, 100pF, 50V, ±10%
C105, 106		ECKD1H102MD	Ceramic, 0.001μF, 50V, ±20%
C107, 108		**ECEA1AS101**	Electrolytic, 100μF, 10V
C109, 110		ECCD1H220K	Ceramic, 22pF, 50V, ±10%
C111, 112		**ECEA1AS470**	Electrolytic, 47μF, 10V
C113, 114		ECQM1H223KZ	Polyester, 0.022μF, 50V, ±10%
C115, 116		ECQM1H682KZ	Polyester, 0.0068μF, 50V, ±10%
C117, 118		**ECEA50MR47R**	Electrolytic, 0.47μF, 50V
C121		**ECEA1AS101**	Electrolytic, 100μF, 10V
C122		**ECEA1VS221**	Electrolytic, 220μF, 35V
C201, 202		ECCD1H101K	Ceramic, 100pF, 50V, ±10%
C203, 204		ECQM1H473KZ	Polyester, 0.047μF, 50V, ±10%
C301, 302		**ECEA50Z3R3**	Electrolytic, 3.3μF, 50V
C303, 304		ECCD1H680K	Ceramic, 68pF, 50V, ±10%
C305, 306		ECCD1H680K	Ceramic, 68pF, 50V, ±10%
C307, 308		ECCD1H020C	Ceramic, 2pF, 50V, ±0.25pF
C309, 310		**ECEA1AS470**	Electrolytic, 47μF, 10V
C311, 312		**ECEA1AS470**	Electrolytic, 47μF, 10V
C313, 314		ECCD2H150K	Ceramic, 15pF, 500V, ±10%
C317, 318		ECCD2H101K	Ceramic, 100pF, 500V, ±10%
C319, 320		**ECEA1HS470**	Electrolytic, 47μF, 50V
C321, 322		ECQM1H473KZ	Polyester, 0.047μF, 50V, ±10%
C323		**ECEA1ES221**	Electrolytic, 220μF, 25V
C324		**ECEA1HS101**	Electrolytic, 100μF, 50V
C325		**ECEA1VS101**	Electrolytic, 100μF, 35V
C401, 402		ECQM1H123KZ	Polyester, 0.012μF, 50V, ±10%
C403, 404		ECQM1H683KZ	Polyester, 0.068μF, 50V, ±10%
C405, 406		ECQM1H272KZ	Polyester, 0.0027μF, 50V, ±10%
C407, 408		ECQM1H223KZ	Polyester, 0.022μF, 50V, ±10%
C501, 502		ECET42R682S	Electrolytic, 6800μF, 42V
C503		**ECEA1VS101**	Electrolytic, 100μF, 35V
C505		**ECEA1HS221**	Electrolytic, 220μF, 50V

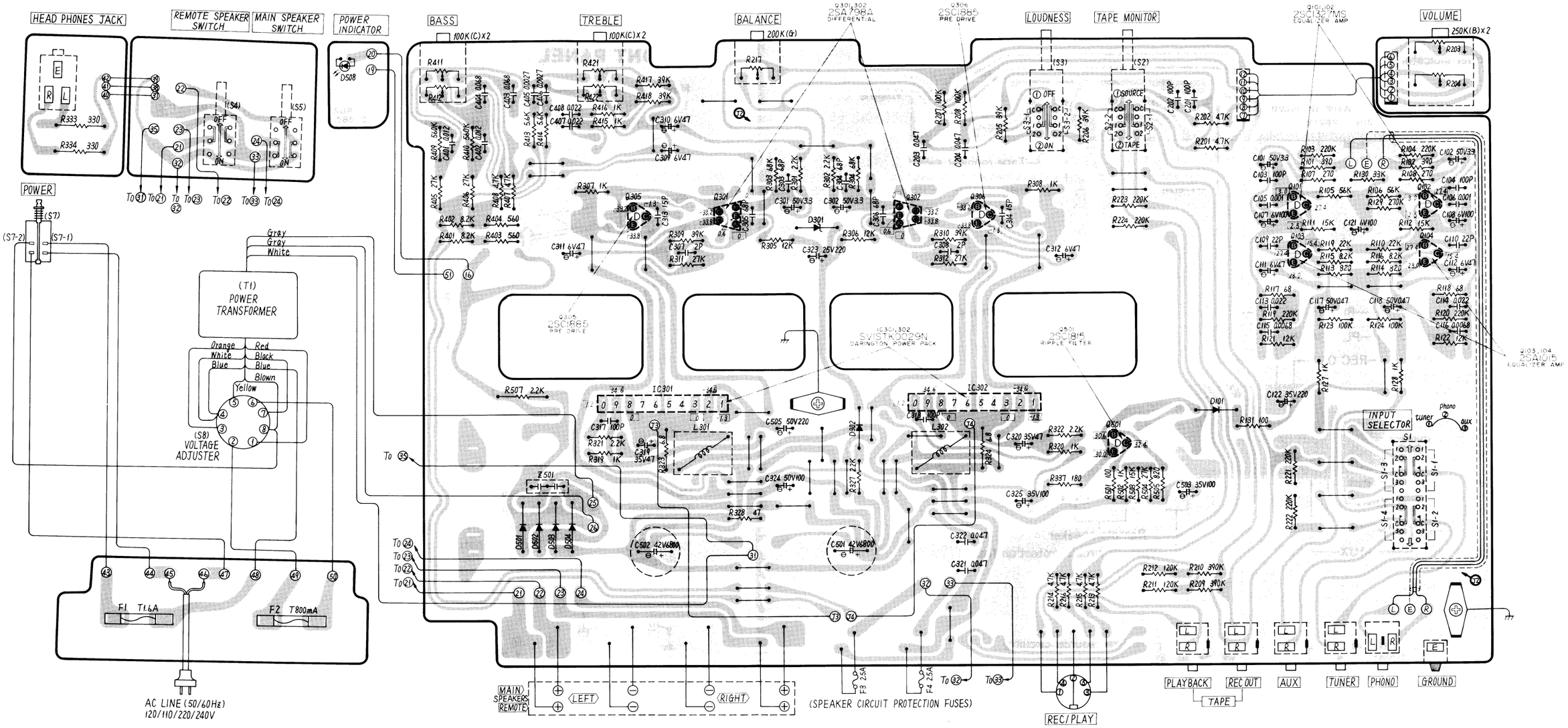
■ PRINTED CIRCUIT BOARD WIRING VIEW



Ref. No.	Product Part No.	Standardized Part No.
Q101, 102	2SC1327	2SC1328-T
D101, 302	MA150	MA161

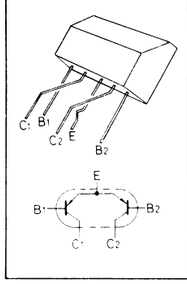
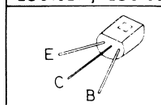
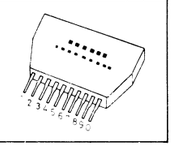
■ PRINTED CIRCUIT BOARD WIRING VIEW

Earth (Ground) Lines

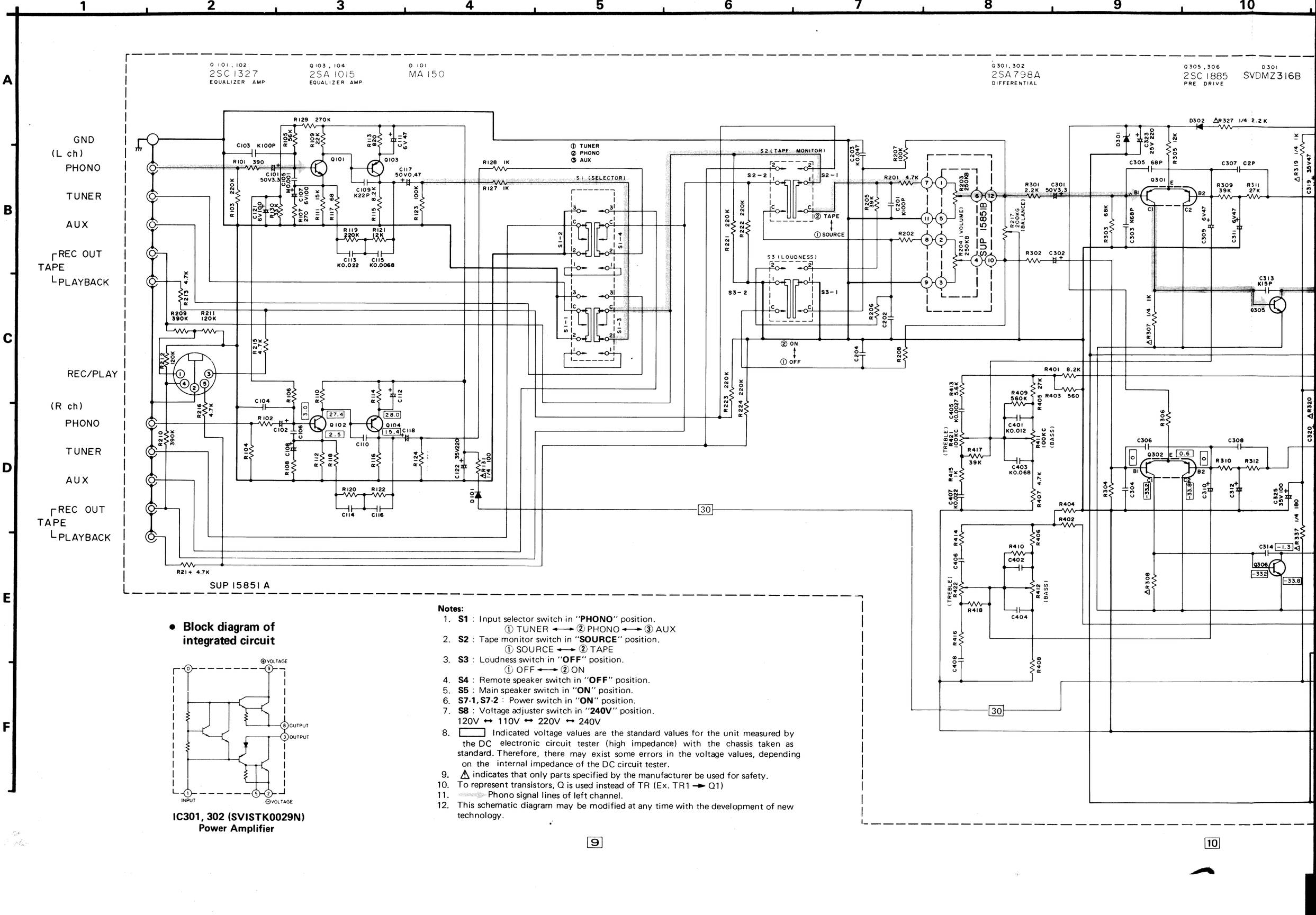


Ref. No.	Product Part No.	Standardized Part No.
Q101, 102	2SC1327	2SC1328-T
D101, 302	MA150	MA161

- **Terminal guide of transistor and IC**

2SA798A	2SA1015 , 2SC1815 2SC1327 , 2SC1885
	
	SVISTK0029N
	

■ SCHEMATIC DIAGRAM



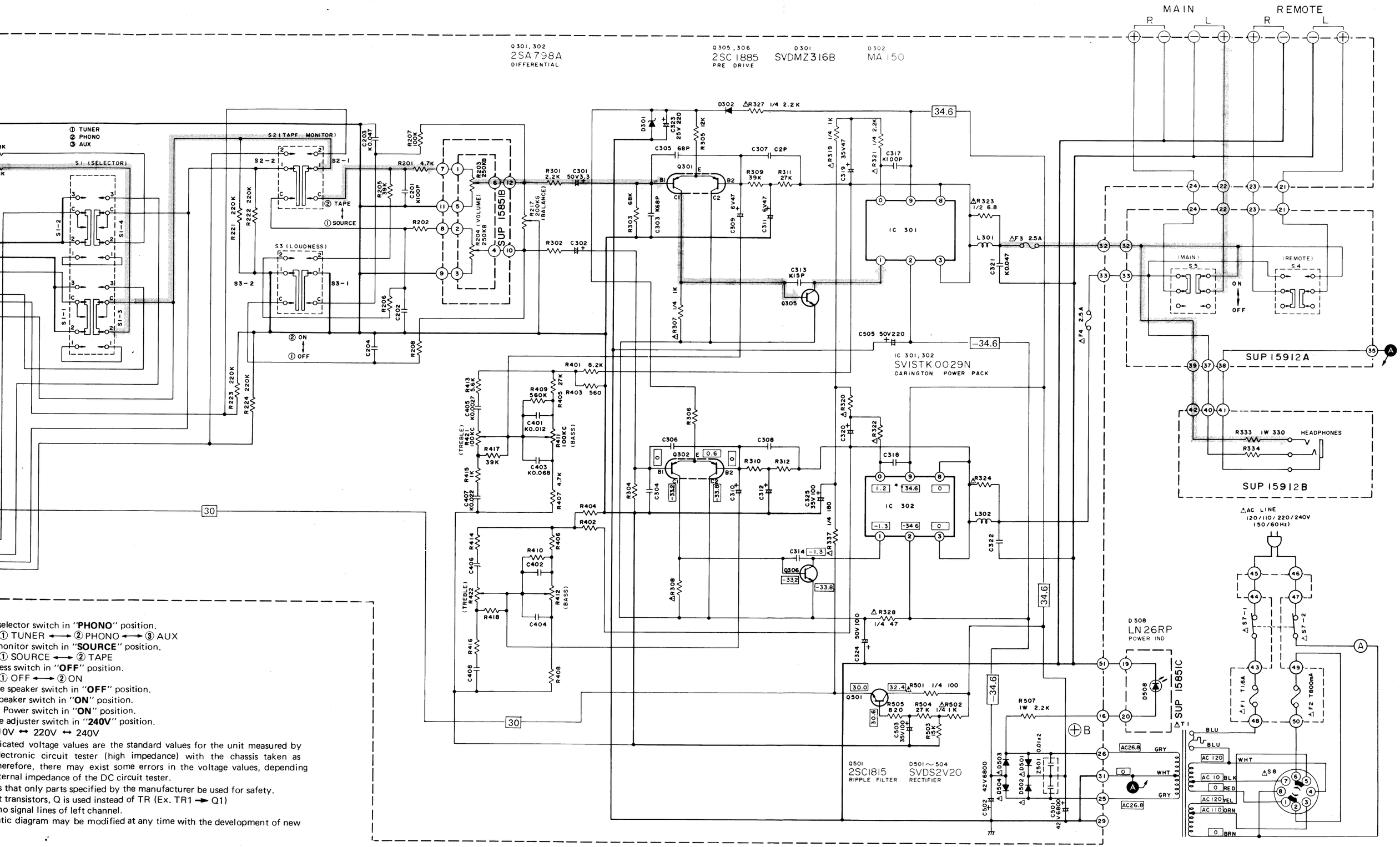
- **Block diagram of integrated circuit**

IC301, 302 (SVISTK0029N)
Power Amplifier

Notes:

1. **S1** : Input selector switch in "**PHONO**" position.
   ① TUNER ⟷ ② PHONO ⟷ ③ AUX
2. **S2** : Tape monitor switch in "**SOURCE**" position.
   ① SOURCE ⟷ ② TAPE
3. **S3** : Loudness switch in "**OFF**" position.
   ① OFF ⟷ ② ON
4. **S4** : Remote speaker switch in "**OFF**" position.
5. **S5** : Main speaker switch in "**ON**" position.
6. **S7-1, S7-2** : Power switch in "**ON**" position.
7. **S8** : Voltage adjuster switch in "**240V**" position.
   120V ↔ 110V ↔ 220V ↔ 240V
8. ▭ 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.
9. ⚠ indicates that only parts specified by the manufacturer be used for safety.
10. To represent transistors, Q is used instead of TR (Ex. TR1 ➞ Q1)
11. ▬▬ Phono signal lines of left channel.
12. This schematic diagram may be modified at any time with the development of new technology.

5 6 7 8 9 10 11 12 13 14



selector switch in "**PHONO**" position.
① TUNER ⟷ ② PHONO ⟷ ③ AUX
monitor switch in "**SOURCE**" position.
① SOURCE ⟷ ② TAPE
ess switch in "**OFF**" position.
① OFF ⟷ ② ON
e speaker switch in "**OFF**" position.
peaker switch in "**ON**" position.
Power switch in "**ON**" position.
e adjuster switch in "**240V**" position.
0V ↔ 220V ↔ 240V
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lectronic circuit tester (high impedance) with the chassis taken as
herefore, there may exist some errors in the voltage values, depending
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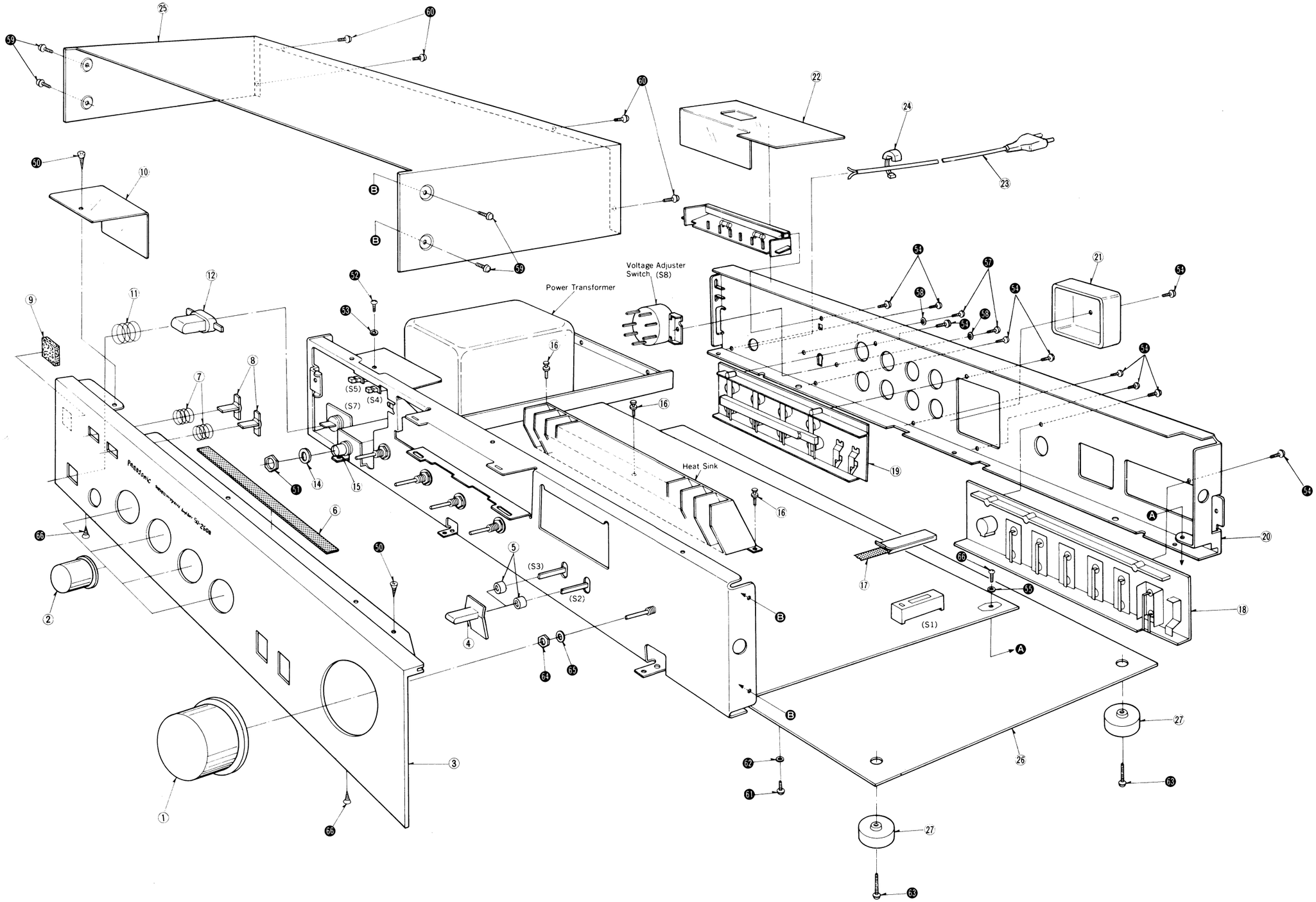
s that only parts specified by the manufacturer be used for safety.
t transistors, Q is used instead of TR (Ex. TR1 → Q1)
no signal lines of left channel.
tic diagram may be modified at any time with the development of new

■ EXPLODED VIEWS



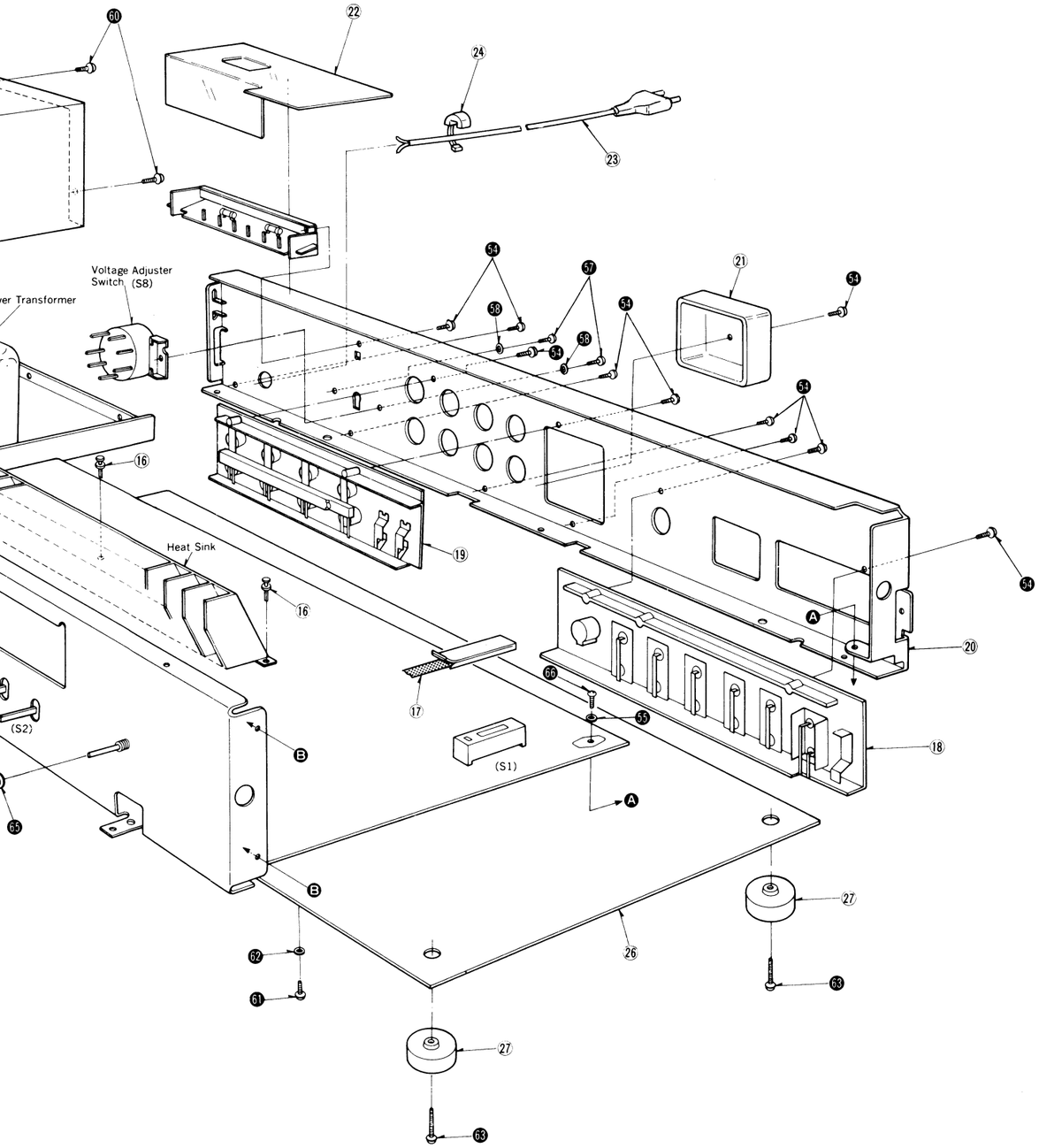
■ REPLACEM

Notes: 1. Part num
Please us
2. ⚠ indi

Ref. No.		
		CA
1		SB
2		SB
3		SG
4		SB
5		SN
6		SH
7		SU
8		SB
9		SH
10		SM
11		SU
12		SB
14		SN
15		XC
16		SH
17		ES
18		SJ
19		SJ
20		SG
21		SU
22		SM
23	⚠	RJ
23 [XE] only	⚠	RJ
24		SF
24 [XE] only		SF
25		SK
26		SY
27		SK
50		XT

Note : (XE) is avai

■ PACKINGS



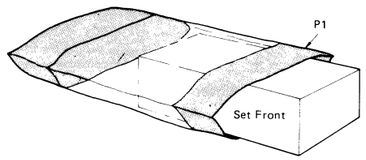
■ REPLACEMENT PARTS LIST (Cabinet and Chassis Parts)

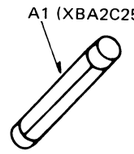
Notes: 1. Part numbers are indicated on most mechanical parts.
Please use this part number for parts order.
2. ⚠ indicates that only parts specified by the manufacturer be used for safety.

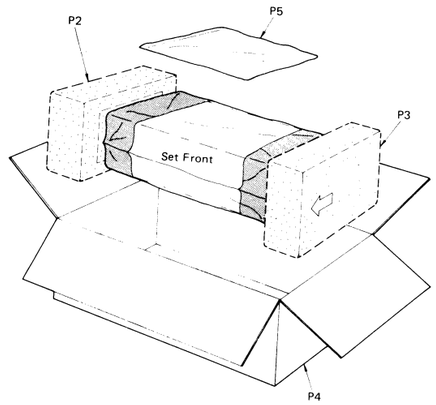
Ref. No.		Part No.	Part Name & Description
CABINET and CHASSIS PARTS			
1		SBN859–1	Knob, Volume Control
2		SBN861	Knob, Bass, Treble, Balance & Input Selector
3		SGWU2600E	Panel, Front Ass'y
4		SBD19–3	Knob, Loudness, Tape Monitor Switch
5		SNW421–1	Spacer, Loudness, Tape Monitor Switch
6		SHS6101–1	Fiber, Front Panel
7		SUS123–1	Spring, Push Switch
8		SBC211–1	Button, Speaker Switch
9		SHR9491	Spacer, LED Power Indicator
10		SMX267	Cover, Power Switch
11		SUS145	Spring, Power Switch
12		SBC209–2	Button, Power Switch
14		SNE59–1	Washer, Headphones Jack M'tg
15		XCJ6P21B–A	Jack, Headphones
16		SHR401–1	Latch, Heat Sink M'tg
17		ESA338	Remote Switch, Input Selector
18		SJF3025–3	Terminal, Input
19		SJF8013–1	Terminal, Speakers
20		SGP1750–1E	Rear Panel
21		SUV337	Cover, Speaker Terminal
22		SMX269–1	Cover, Power Fuses
23	⚠	RJA23ZC	AC Cord, with Plug (Except product for [XE])
23 [XE] only	⚠	RJA45ZC	AC Cord
24		SFSR4N4	Bushing, AC Cord (Except product for [XE])
24 [XE] only		SFSR5N4	Bushing, AC Cord
25		SKA10679K	Cabinet
26		SYU187–2	Bottom Board
27		SKL225	Foot, Set
SCREWS and WASHERS			
㊿		**XTS3+8B**	Screw, Front Panel M'tg
㊾		**XNS12**	Nut, Headphones Jack M'tg
㊽		**XTN3+8B**	Screw, Speaker Selector Switch Printed Circuit Board M'tg
㊼		**XWG3B**	Washer
㊻		**XTB3+8BFZ**	Screw, Terminals, Fuse Cover, Power Fuses Printed Circuit Board and Rear Panel M'tg
㊺		**XWC3B**	Washer
㊹		**XSN3+6BVS**	Screw, Voltage Adjuster Switch M'tg
㊸		**XWA3BFZ**	Washer
㊷		**XTB4+8BFZ**	Screw, Cabinet M'tg
㊶		**XTB3+8BFZ**	Screw, Cabinet M'tg
㊵		**XTN3+8B**	Screw, Bottom Board M'tg
㊴		**XWG3**	Washer
㊳		**XTB3+12BFN**	Screw, Set Feet M'tg
㊲		**XNS8**	Nut, Volume, Selector, Balance, Treble & Bass M'tg
㊱		**XWV8**	Washer
㉟		**XTB3+8BFN**	Screw, Front Panel and P.C.B. M'tg
ACCESSORY			
A1	⚠	XBA2C25SS0	Fuse, 2.5A (250V) Speaker Circuit
PACKING PARTS			
P1		SPP501	Polyethylene Bag
P2		SPS2265	Pad, Left Side
P3		SPS2267	Pad, Right Side
P4		SPG2209	Carton Box
P5		SQF10261	Instructions Book, Printed Matter (Except product for [XE])
P5 [XE] only		SQF10259	Instructions Book, Printed Matter

Note : (XE) is available in United Kingdom.

■ PACKINGS AND ACCESSORIES







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