ORDER NO. SD7901-1509

Service Manual

Stereo Integrated Amplifier

SU-8077

(D), (DG), (EB), (XSW), (XGF), (XGH)

SU-8077K

(D), (DG), (EB), (XSW), (XE), (X), (XA), (XAL)

SU-8077

SU-8077K

* The models SU-8077 (D, DG) and SU-8077K (D, DG) are available in Scandinavia and European only.
* The models SU-8077 (EB) and SU-8077K (EB) are available in Belgium only.
* The models SU-8077 (XSW) and SU-8077K (XSW) are available in Switzerland only.
* The model SU-8077 (XGF) is availabl in France only.
* The model SU-8077 (XGH) is available in Holland only.
* The model SU-8077K (XE) is available in United Kingdom only.
* The models SU-8077K (X, XA) are available in Asia, Latin America, Middle East and Africa only.
* The model SU-8077K (XAL) is available in Australia only.

TECHNICAL SPECIFICATIONS

Specifications are subject to change without notice for further improvement.

[DIN 45 500]

AMPLIFIER SECTION

20Hz ~ 20kHz continuous power output		
both channels driven		2 x 65 W (4Ω), 2 x 60 W (8Ω)
40 Hz ~ 16 kHz continuous power output		
both channels driven		2 x 65 W (4Ω), 2 x 60 W (8Ω)
1 kHz continuous power output		
both channels driven		2 x 80 W (4Ω), 2 x 62 W (8Ω)
Power bandwidth both channels driven, –3 dB		THD 0.03% 5 Hz ~ 40 kHz (4Ω) THD 0.02% 5 Hz ~ 45 kHz (8Ω)
Total harmonic distortion		
rated power at 20Hz ~ 20 kHz		0.03% (4Ω), 0.02% (8Ω)
rated power at 40 Hz ~ 16 kHz		0.03% (4Ω), 0.02% (8Ω)
rated power at 1kHz		0.02% (4Ω, 8Ω)
half power at 20 Hz ~ 20 kHz		0.008% (8Ω)
half power at 1 kHz		0.003% (8Ω)
–26 dB power at 1 kHz		0.05% (4Ω)
50mW power at 1 kHz		0.08% (4Ω)
Intermodulation distortion		
rated power at 250 Hz: 8 kHz = 4:1, 4Ω		0.03%
rated power at 60 Hz: 7 kHz = 4:1, SMPTE, 8Ω		0.02%
Residual hum & noise (Straight DC)		0.3mV (0.3 mV, IHF, A)
Damping factor		20 (4Ω), 40 (8Ω)
Input sensitivity and impedance		
PHONO MM		2.5 mV/47 kΩ
PHONO MC		170μV/47Ω
TUNER, AUX		200 mV/47 kΩ
TAPE 1, REC/PLAY		200 mV/47 kΩ
TAPE 2		200 mV/47 kΩ
PHONO maximum input voltage (1 kHz, RMS)	MM	150 mV
	MC	8 mV
S/N rated power at 4Ω		
PHONO	MM	75 dB (88 dB, IHF, A)
	MC	65 dB (70 dB, IHF, A)
TUNER, AUX		92 dB (108 dB, IHF, A)
–26 dB Power at 4Ω		
PHONO	MM	67 dB
	MC	65 dB
TUNER, AUX		68 dB
50mW Power at 4Ω		
PHONO	MM	64 dB
	MC	62 dB
TUNER, AUX		65 dB
Frequency response	PHONO MM	RIAA standard curve 30 Hz ~ 15 kHz, ±0.2 dB
	TUNER, AUX, TAPE	20 Hz ~ 20 kHz, $^{+0}_{-0.1}$ dB 0.5 Hz ~ 60 kHz, –1 dB
Tone controls	BASS	50 Hz, +7.5 dB ~ –7.5 dB
	TREBLE	20 kHz, +7.5 dB ~ –7.5 dB
High filter		7 kHz, –6 dB/oct
Subsonic filter		30 Hz, –6dB/oct
Loudness control (volume at –30 dB)		50 Hz, +7.5 dB
Output voltage and impedance	REC OUT	200 mV
	REC/PLAY	25 mV/82 kΩ
Channel balance (250 Hz ~ 6300 Hz), AUX		± 1.0 dB
Channel separation at 1 kHz, AUX		60 dB
Headphones output level and impedance		400 mV/330Ω
Load impedance	MAIN or REMOTE	4 ~ 16Ω
	MAIN + REMOTE	8 ~ 16Ω

GENERAL

Power consumption	600 W
Power supply (50 Hz/60 Hz)	110V/120V/220V/240V
Dimensions (W x H x D)	450 x 142 x 360 mm (17-23/32" x 5-19/32" x 14-3/16")
Weight	12 kg (26.5 lb.)

Technics

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 65 W (4Ω)
	2 x 60 W (8Ω)
Dauertonleistung bei 40 Hz ~ 16 kHz	
beide Kanäle zusammen ausgesteuert	2 x 65 W (4Ω)
Dauertonleistung bei 1 kHz	2 x 60 W (8Ω)
beide Kanäle zusammen ausgesteuert	2 x 80 W (4Ω), 2 x 62 W (8Ω)
Leistungsbandbreite	
beide Kanäle zusammen ausgesteuert, –3 dB	
THD 0,03%	5 Hz ~ 40 kHz (4Ω)
THD 0,02%	5 Hz ~ 45 kHz (8Ω)
Harmonische Verzerrungen	
Nennausgangsleistung bei 20 Hz ~ 20 kHz	0,03% (4Ω), 0,02% (8Ω)
Nennausgangsleistung bei 40 Hz ~ 16 kHz	0,03% (4Ω), 0,02% (8Ω)
Nennausgangsleistung bei 1 kHz	0,02% (4Ω, 8Ω)
Halber Ausgangsleistung bei 20 Hz ~ 20 kHz	0,008% (8Ω)
Halber Ausgangsleistung bei 1 kHz	0,003% (8Ω)
–26 dB Ausgangsleistung bei 1 kHz	0,05% (4Ω)
50 mW Ausgangsleistung bei 1 kHz	0,08% (4Ω)
Intermodulationsverzerrung	
Nennausgangsleistung bei 250 Hz: 8 kHz = 4:1, 4Ω	0,03%
Nennausgangsleistung bei 60 Hz: 7 kHz = 4:1, SMPTE 8Ω	0,02%
Brummen & Rauschen	0,3 mV (0,3 mV, IHF A)
Dämpfungsfaktor	20 (4Ω), 40 (8Ω)
Eingangsempfindlichkeit & Impedanz	
PHONO MM	2,5 mV/47 kΩ
MC	170μV/47Ω
TUNER, AUX	200 mV/47 kΩ
TAPE 1, REC/PLAY	200 mV/47 kΩ
TAPE 2	200 mV/47 kΩ
PHONO Maximale Eingangsspannungen	
MM	150 mV
MC	8 mV
Fremdspannungsabstand	
Nennausgangsleistung bei 4Ω	
PHONO MM	75 dB (88 dB, IHF, A)
MC	65 dB (70 dB, IHF, A)
TUNER, AUX	92 dB (IHF, A: 108 dB)
–26 dB Ausgangsleistung bei 4Ω PHONO MM	67 dB
MC	65 dB
TUNER, AUX	68 dB
50mW Ausgangsleistung bei 4Ω PHONO MM	64 dB
MC	62 dB
TUNER, AUX	65 dB
Frequenzgang PHONO MM	RIAA Standardkurve
	30 Hz ~ 15 kHz, ±0,2 dB
TUNER, AUX, TAPE	0,5 Hz ~ 60 kHz, –1 dB
	20 Hz ~ 20 kHz, $^{+0}_{-0,1}$ dB
Klangregler BÄSSE	50 Hz, +7,5 dB ~ –7,5 dB
HÖHEN	20 kHz, +7,5 dB ~ –7,5 dB
Höhenfilter (HIGH)	7 kHz, –6 dB/oct
Unterschallfilter	30 Hz, –6 dB/ oct
Gehörgerechte Lautstärkekorrektur (Lautstärke bei –30 dB)	50 Hz, +7,5 dB
Ausgangsspannungen & Impedanz REC OUT	200 mV
REC/PLAY	25 mV/82 kΩ
Kanalabweichung (250 Hz ~ 6300 Hz), AUX	±1,0 dB
Kanaltrennung bei 1 kHz, AUX	60 dB
Kopfhörerpegel und Ausgangsimpedanz	400 mV/330Ω
Lautsprecher-Ausgangsimpedanz	
MAIN oder REMOTE	4 ~ 16Ω
MAIN und REMOTE	8 ~ 16Ω

ALLGEMEINE DATEN

Leistungsaufnahme	600 W
Netzspannung umschaltbar (50 Hz/60 Hz)	110V/120V/220V/240V
Abmessungen (B x H x T)	450 x 142 x 360 mm
Gewicht	12 kg

CARACTERISTIQUES TECHIQUES

Sujet à changement sans préaris.

[DIN 45 500]

PARTIE AMPLIFICATEUR

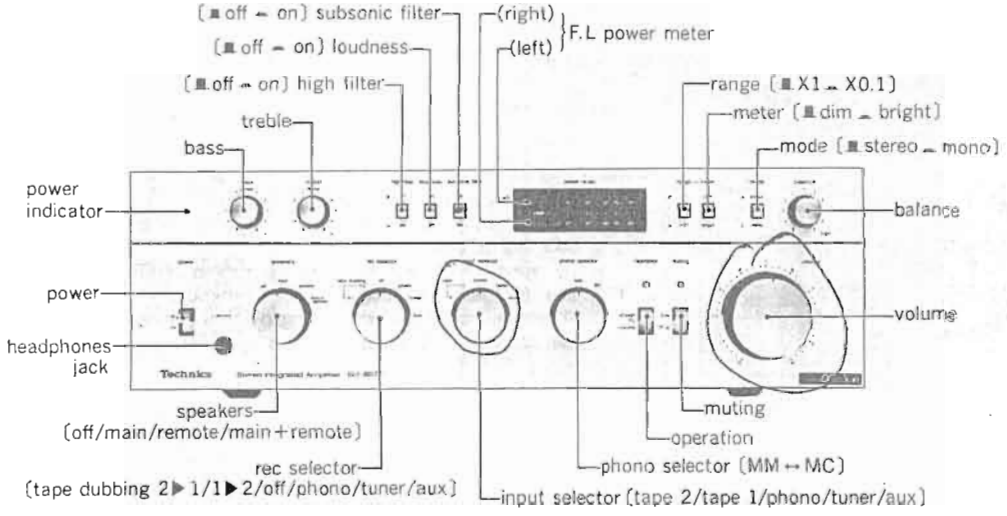
Puissance (continue) à 20 Hz ~ 20 kHz	
pour l'ensemble des canaux excités	2 x 65 W (4Ω)
	2 x 60 W (8Ω)
Puissance (continue) à 40 Hz ~ 16 kHz	
pour l'ensemble des canaux excités	2 x 65 W (4Ω)
	2 x 60 W (8Ω)
Puissance (continue) à 1 kHz	
pour l'ensemble des canaux excités	2 x 80 W (4Ω), 2 x 60 W (8Ω)
Largeur de bande de puissance	
pour l'ensemble des canaux excités, –3 dB	
THD 0,03%	5 Hz ~ 40 kHz (4Ω)
THD 0,02%	5 Hz ~ 45 kHz (8Ω)
Distorsion harmonique totale	
pour la puissance mesurée à 20 Hz ~ 20 kHz	0,03% (4Ω), 0,02% (8Ω)
pour la puissance mesurée à 40 Hz ~ 16 kHz	0,03% (4Ω), 0,02% (8Ω)
pour la puissance mesurée à 1 kHz	0,02% (4Ω, 8Ω)
pour la demi-puissance mesurée à 20 Hz ~ 20 kHz	0,008% (8Ω)
pour la demi-puissance mesurée à 1 kHz	0,003% (8Ω)
pour une puissance mesurée de –26 dB, 1 kHz	0,05% (4Ω)
pour une puissance mesurée de 50 mW, 1 kHz	0,08% (4Ω)
Distorsion d'intermodulation	
pour la puissance mesurée à 250 Hz: 8 kHz = 4:1, 4Ω	0,03%
pour la puissance mesurée à 60 Hz: 7 kHz = 4:1, 8Ω	0,02%
Tension résiduelle de bruit	0,3 mV (0,3 mV: IHF, A)
Facteur d'amortissement	20 (4Ω), 40 (8Ω)
Sensibilité & impédance d'entrée	
PHONO MM	2,5 mV/47 kΩ
MC	170μV/47Ω
TUNER, AUX	200 mV/47 kΩ
TAPE 1, REC/PLAY	200 mV/47 kΩ
TAPE 2	200 mV/47 kΩ
Voltage d'entrée maximum (PHONO, 1 kHz, RMS)	
MM	150 mV
MC	8 mV
Rapport signal/bruit	
pour la puissance nominale, 4Ω	
PHONO MM	75 dB (88 dB, IHF, A)
MC	65 dB (70 dB, IHF, A)
TUNER, AUX	92 dB (IHF, A: 108 dB)
pour une sortie de –26 dB, 4Ω	
PHONO MM	67 dB
MC	65 dB
TUNER, AUX	68 dB
pour une sortie de 50mW, 4Ω	
PHONO MM	64 dB
MC	62 dB
TUNER, AUX	65 dB
Réponse de fréquence	
PHONO MM	Courbe standard RIAA
	30 Hz ~ 15 kHz, ±0,2 dB
TUNER, AUX, TAPE	0,5 Hz ~ 60 kHz, –1 dB
	20 Hz ~ 20 kHz, $^{+0}_{-0,1}$ dB
Réglage de la tonalité	
BASS (graves)	50 Hz, +7,5 dB ~ –7,5 dB
TREBLE (aigus)	20 kHz, +7,5 dB ~ –7,5 dB
Filtre subsonique	30 Hz, –6 dB/oct.
Filtre Aigu (HIGH)	7 kHz, –6 dB/oct.
Correction physiologique (volume à –30 dB)	50 Hz, +7,5 dB
Tension de sortie & impédance REC OUT	200 mV
REC/PLAY	25 mV/82 kΩ
Equilibrage de canaux (250 Hz ~ 6300 Hz), AUX	±1,0 dB
Séparation des canaux, AUX 1 kHz	60 dB
Niveau de casque et impédance de sortie	400 mV/330Ω
Impédance de charge PRINCIPALE ou ELOIGNEE	4 ~ 16Ω
PRINCIPALE + ELOIGNEE	8 ~ 16Ω

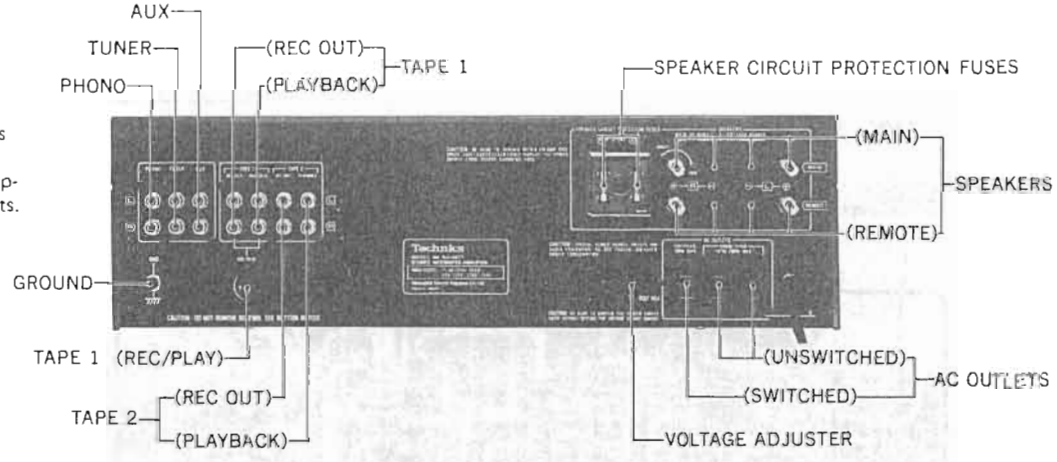
GENERALITES

Consommation	600 W
Alimentation (50 Hz/60 Hz)	110V/120V/220V/240V
Dimensions (L x H x Pr)	450 x 142 x 360 mm
Poids	12 kg

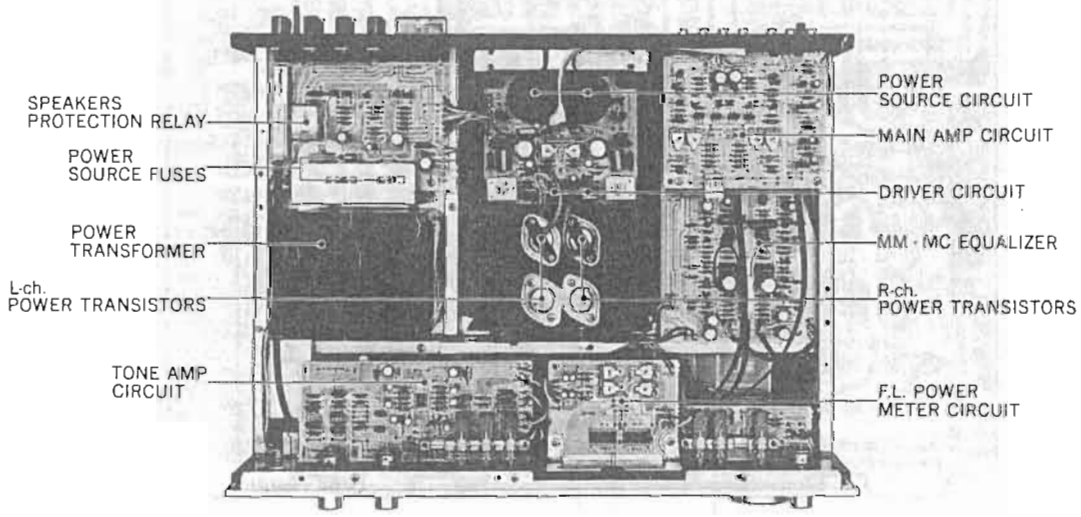
CONTENTS

LOCATION OF CONTROLS

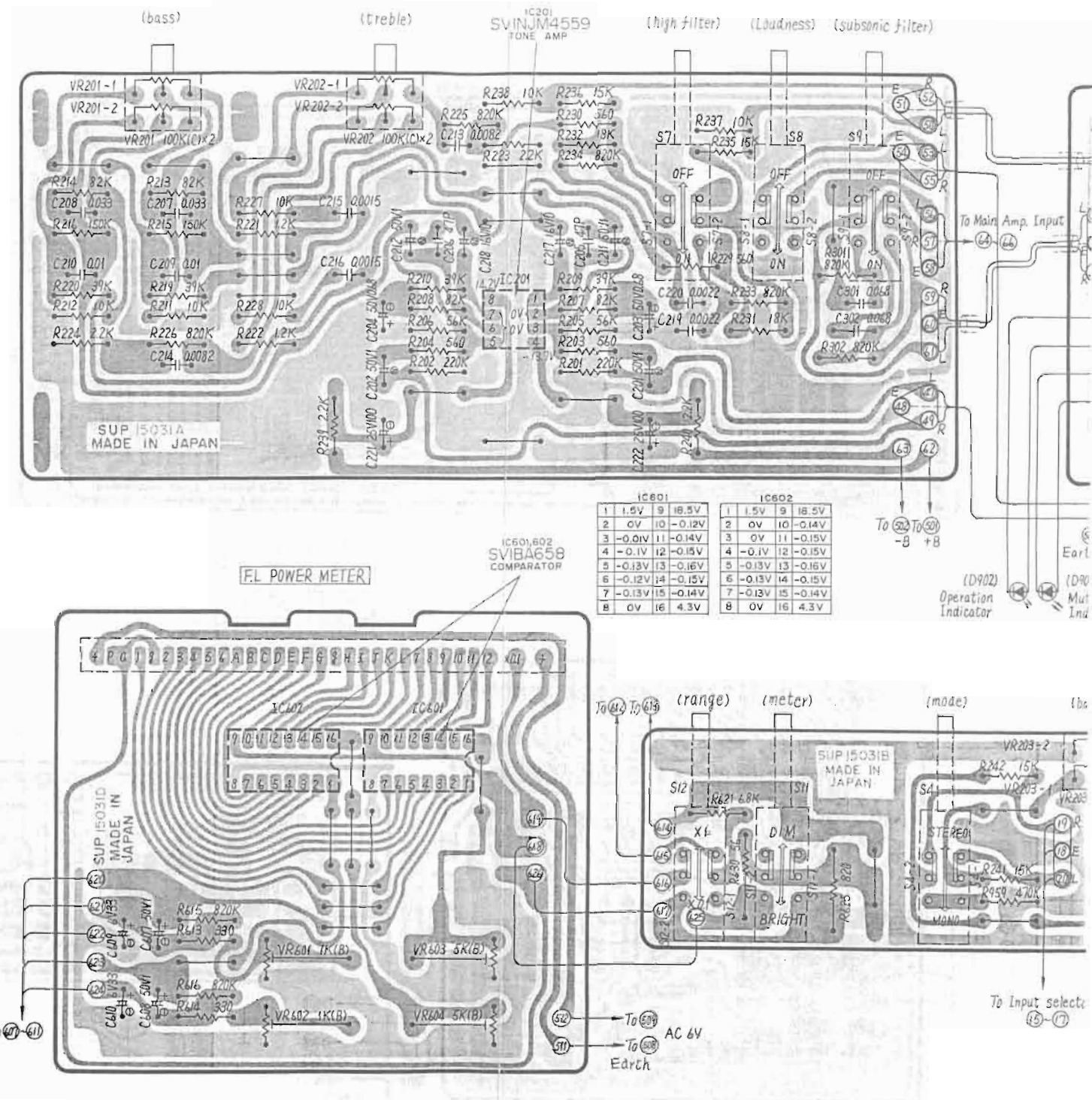




- The products for other destinations except (XA) and (X) are not equipped with AC outlets.



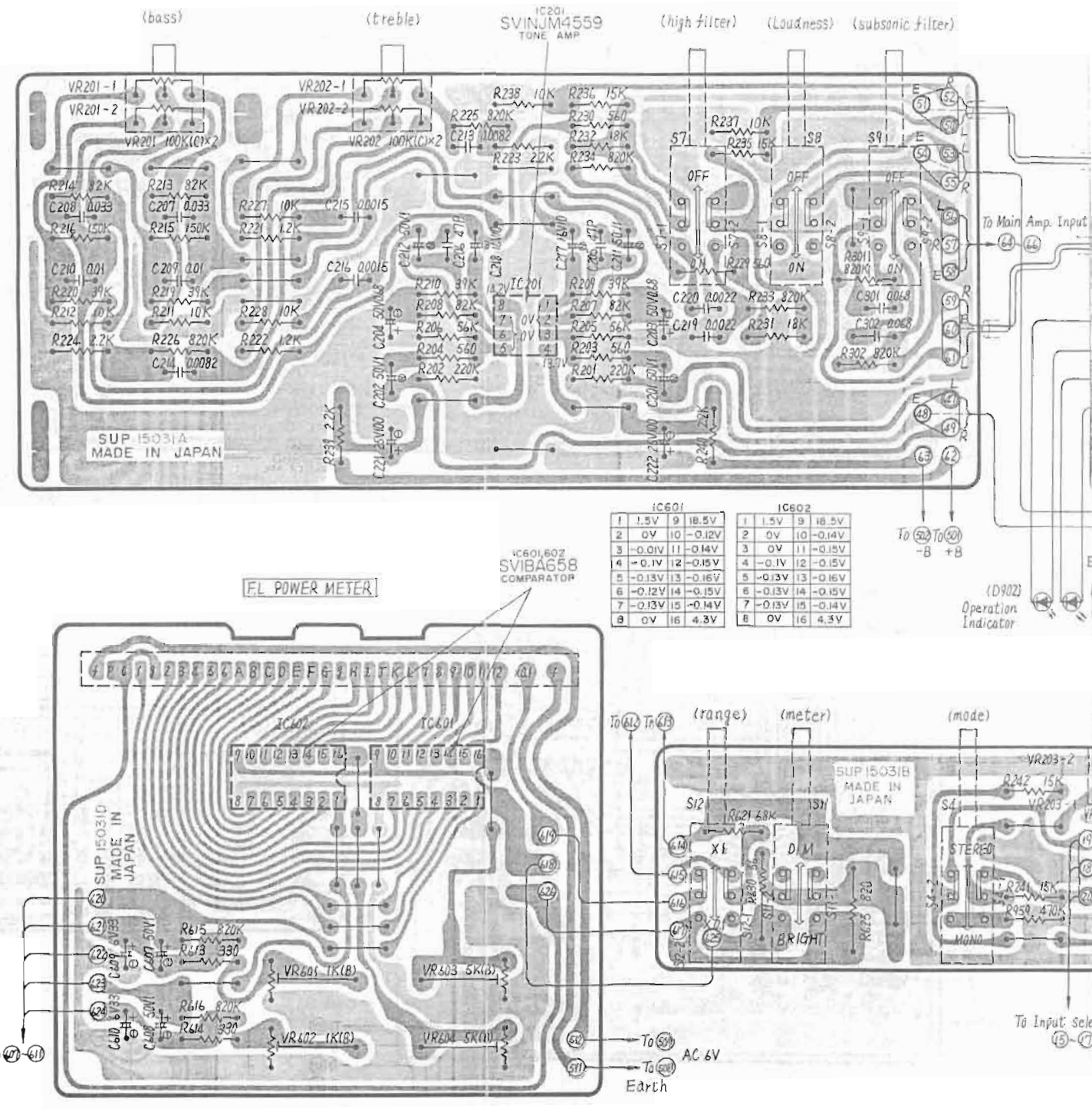
■ FL POWER METER, CONTROL SWITCH AND TONE AMPLIFIER PRINTED CIRCUIT BOA



IC601			
1	1.5V	9	18.5V
2	0V	10	-0.12V
3	-0.01V	11	-0.14V
4	-0.1V	12	-0.15V
5	-0.13V	13	-0.16V
6	-0.12V	14	-0.15V
7	-0.13V	15	-0.14V
8	0V	16	4.3V

IC602			
1	1.5V	9	18.5V
2	0V	10	-0.14V
3	0V	11	-0.15V
4	-0.1V	12	-0.15V
5	-0.13V	13	-0.16V
6	-0.13V	14	-0.15V
7	-0.13V	15	-0.14V
8	0V	16	4.3V

■ FL POWER METER, CONTROL SWITCH AND TONE AMPLIFIER PRINTED CIRCUIT B

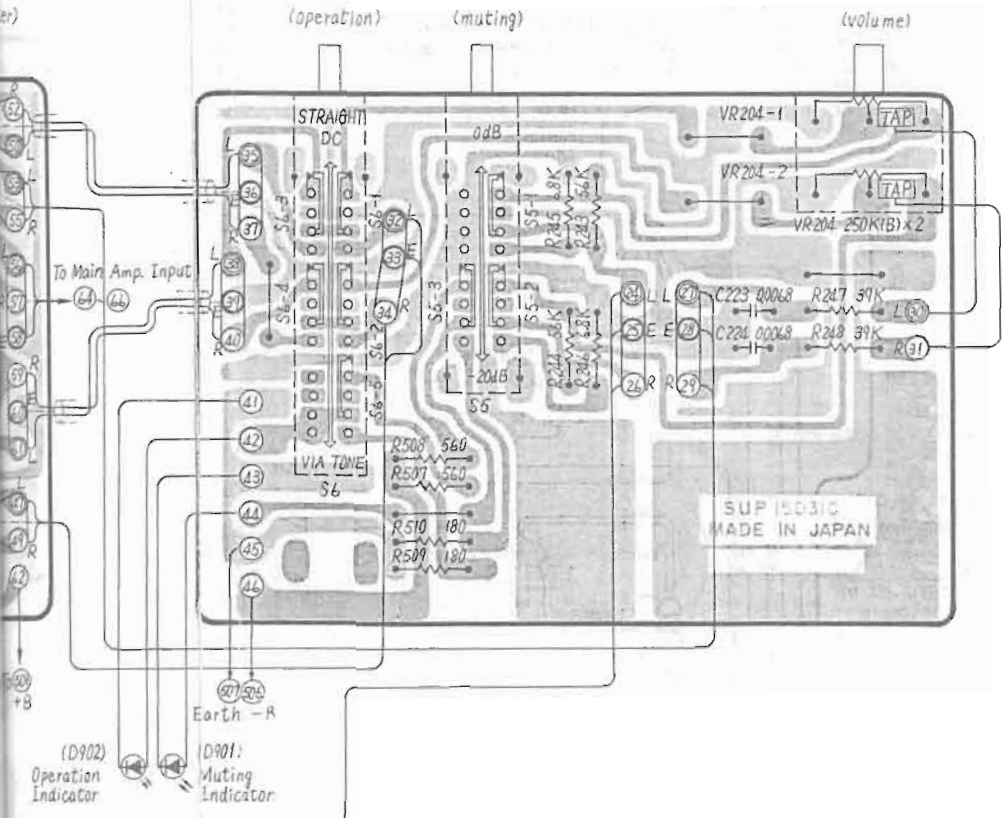


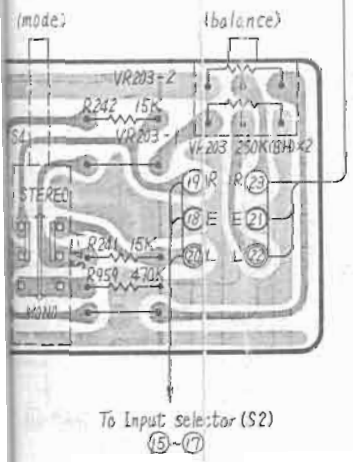
IC601			
1	1.5V	9	18.5V
2	0V	10	-0.12V
3	-0.01V	11	-0.14V
4	-0.1V	12	-0.15V
5	-0.13V	13	-0.16V
6	-0.12V	14	-0.15V
7	-0.13V	15	-0.14V
8	0V	16	4.3V

IC602			
1	1.5V	9	18.5V
2	0V	10	-0.14V
3	0V	11	-0.15V
4	-0.1V	12	-0.15V
5	-0.13V	13	-0.16V
6	-0.13V	14	-0.15V
7	-0.13V	15	-0.14V
8	0V	16	4.3V

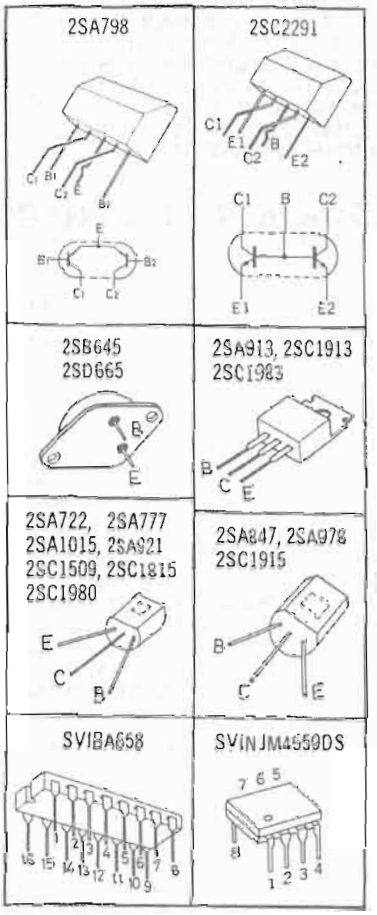
CIRCUIT BOARDS

Earth (Ground) Lines

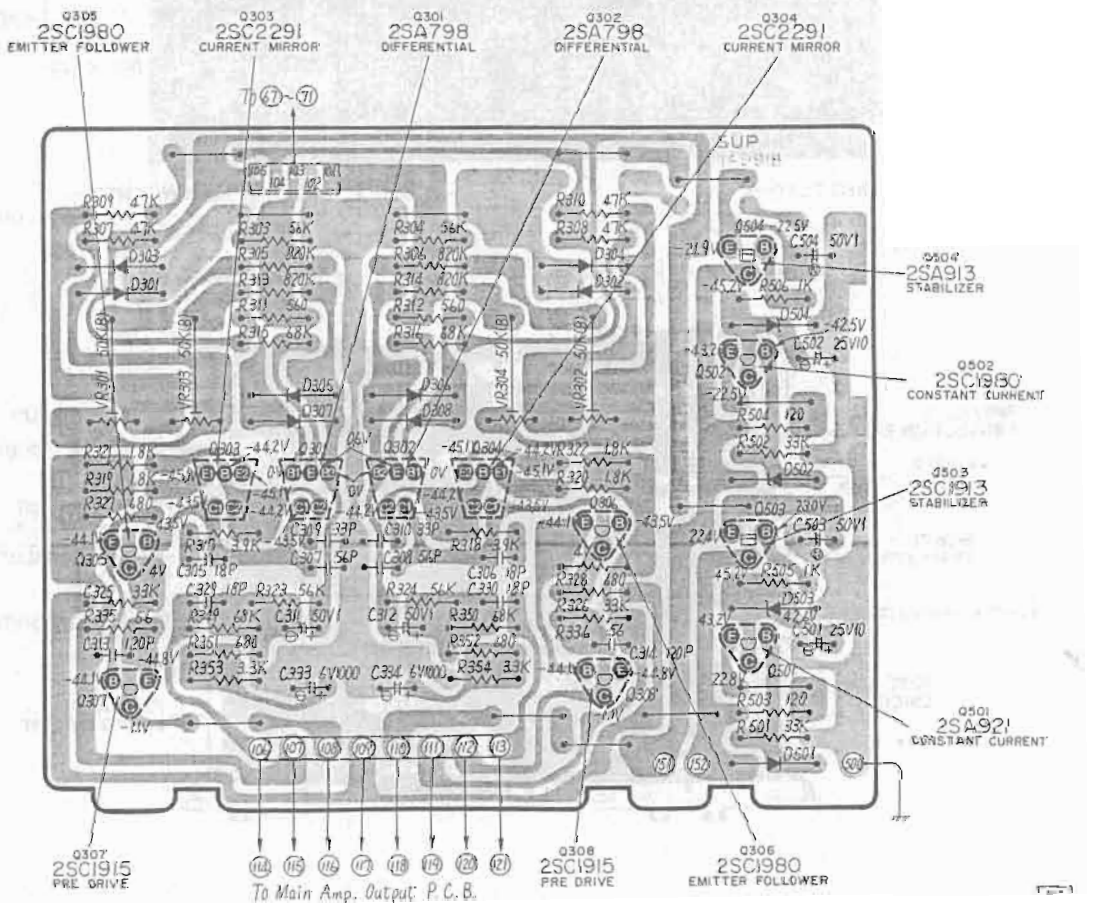




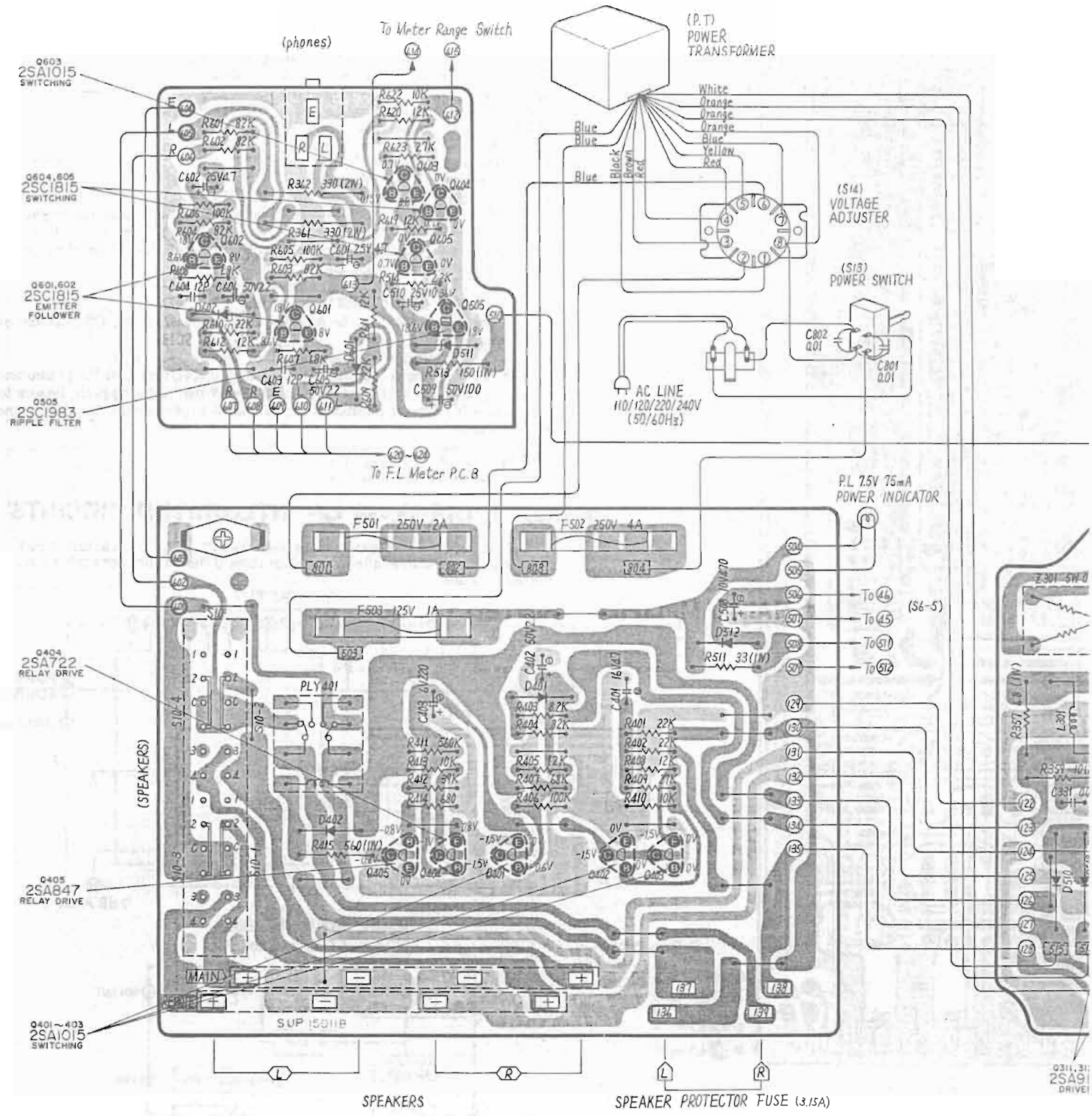
■ TERMINAL GUIDE OF TRANSISTOR AND IC



■ MAIN AMPLIFIER PRINTED CIRCUIT BOARD

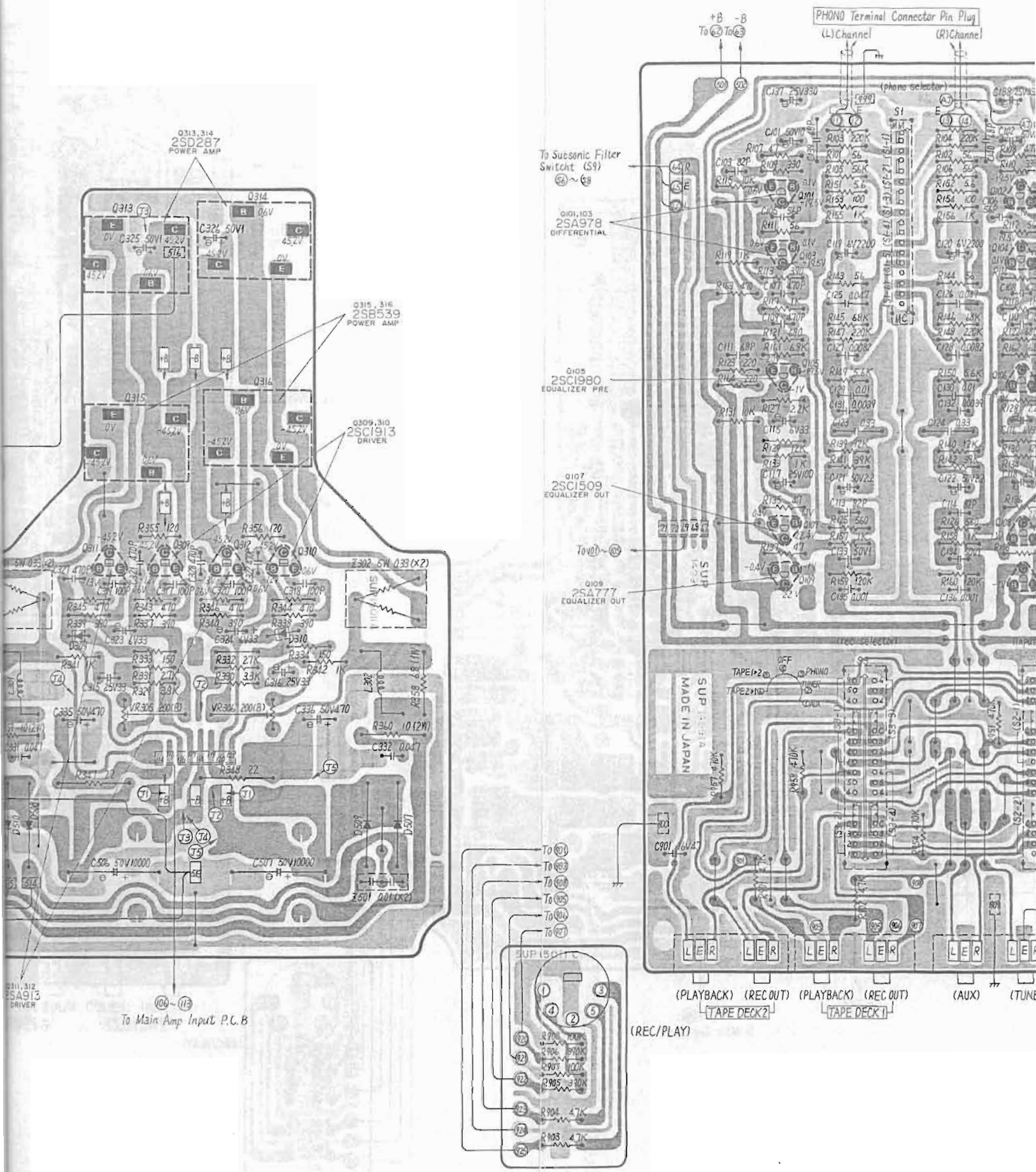


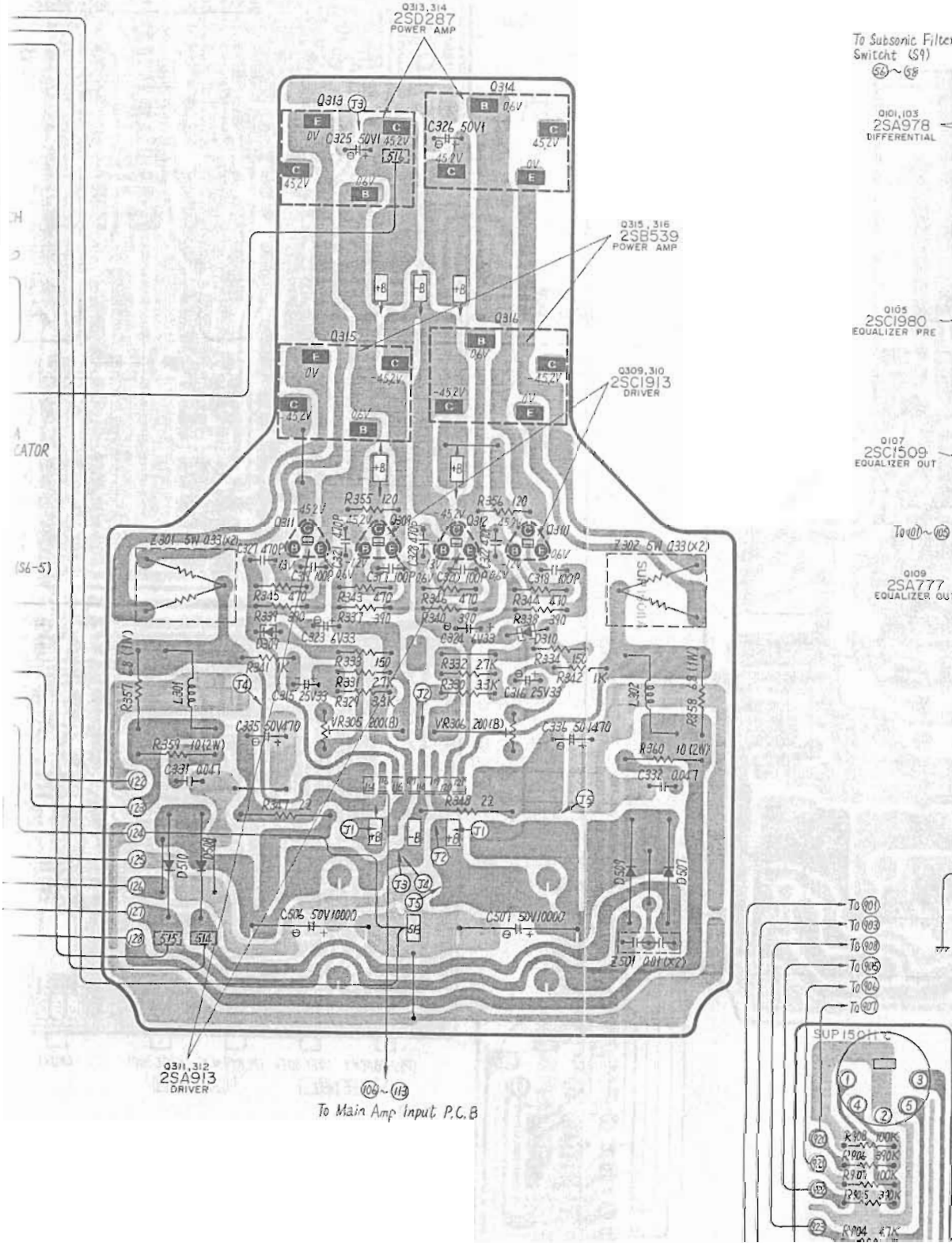
■ POWER SUPPLY, POWER AMPLIFIER AND SPEAKER PROTECTION CIRCUIT BOARDS



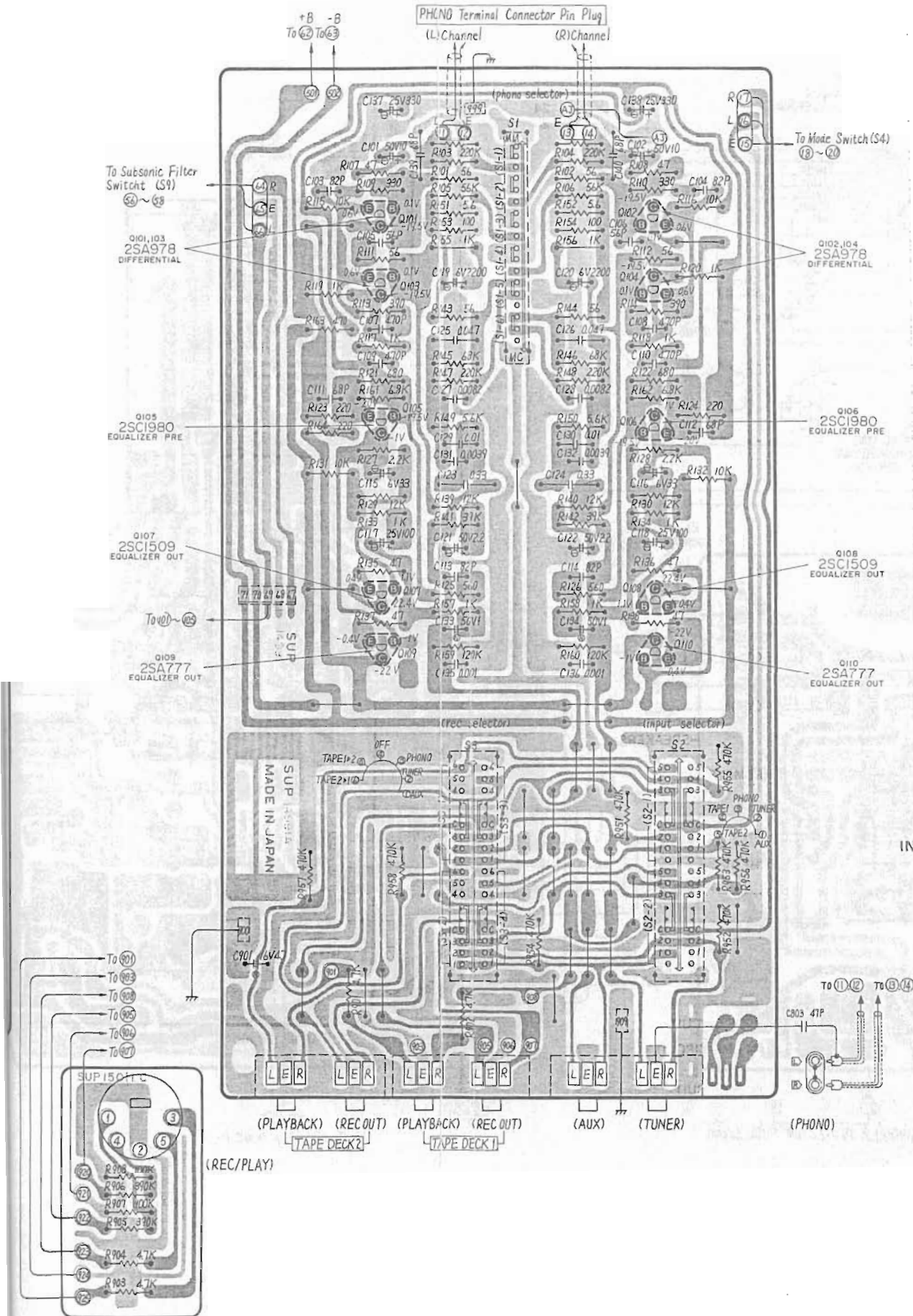
Earth (Ground) Lines

■ MM/MC EQUALIZER PRINTED CIRCUIT BOA




Q313,314
2SD287
POWER AMP
Q313
Q314
Q315,316
2SB539
POWER AMP
Q315
Q316
Q309,310
2SC1913
DRIVER
Q311,312
2SA913
DRIVER
To Main Amp Input P.C.B
To Subsonic Filter Switch (S9)
Q101,103
2SA978
DIFFERENTIAL
Q105
2SC1980
EQUALIZER PRE
Q107
2SC1509
EQUALIZER OUT
Q109
2SA777
EQUALIZER OU
SUPPLY P.C.B

■ MM/MC EQUALIZER PRINTED CIRCUIT BOARD



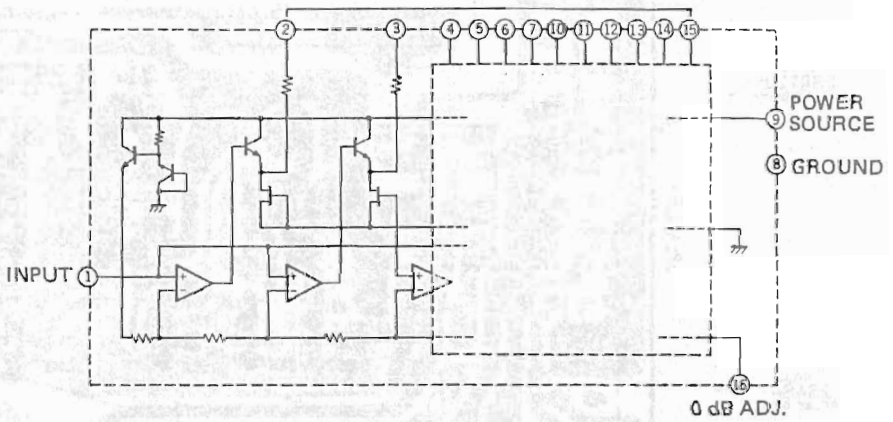
NOTES

1. **S1-1 ~ S1-6** : Phono selector switch in "**MM**" position.
2. **S2-1, S2-2** : Input selector switch in "**phono**" position.
   ① aux ⟷ ② tuner ⟷ ③ phono ⟷ ④ tape 1 ⟷ ⑤ tape 2
3. **S3-1 ~ S3-4** : Rec selector switch in "**phono**" position.
   ① aux ⟷ ② tuner ⟷ ③ phono ⟷ ④ off ⑤ tape dubbing 1 ▶ 2 ⟷ ⑥ tape dubbing 2 ▶ 1
4. **S4-1, S4-2** : Mode selector switch in "**stereo**" position
5. **S5-1 ~ S5-3** : Muting switch in "**0 dB**" position.
6. **S6-1 ~ S6-5** : Operation switch in "**straight DC**" position.
7. **S7-1, S7-2** : High filter switch in "**off**" position.
8. **S8-1, S8-2** : Loudness switch in "**off**" position.
9. **S9-1, S9-2** Subsonic filter switch in "**off**" position.
10. **S10-1 ~ S10-4** : Speakers switch in "**main**" position.
11. **S11** : Meter switch in "**dim**" position.
12. **S12** : Range switch in "**X1**" position.
13. **S13.** : Power switch in "**on**" position.
14. **S14** : Voltage adjuster switch in "**240V**" position.
15. Indicated voltage values re 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.
16. Phono MM signal lines of left channel.
    Via tone signal lines of left channel.
17. This schematic diagram may be modified at any time with the development of new technology.
18. To represent transistors, Q is used instead of TR (Ex TR1 → Q1)
19. The S mark has been used for the indication of specified parts for an assuranc of safety, but it has been changed to ⚠ mark. When replacing parts, be sure to use parts with correct numbers with reference to the circuit drawing or the repair parts list.

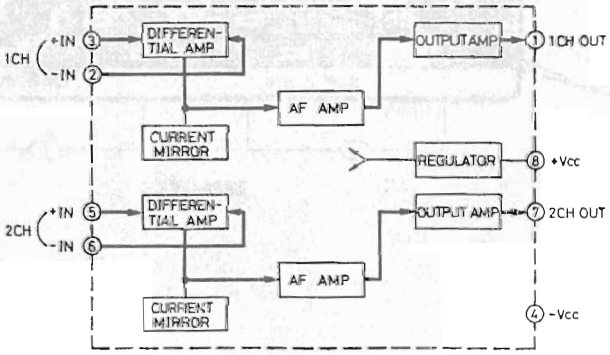
S ⟶ ⚠ (new mark)

■ BLOCK DIAGRAM OF INTEGRATED CIRCUITS

* This is the basic block diagram of the inside circuit of IC. In an actual circuit, there may be sometimes idle terminals or some different functions other than the basic circuit.

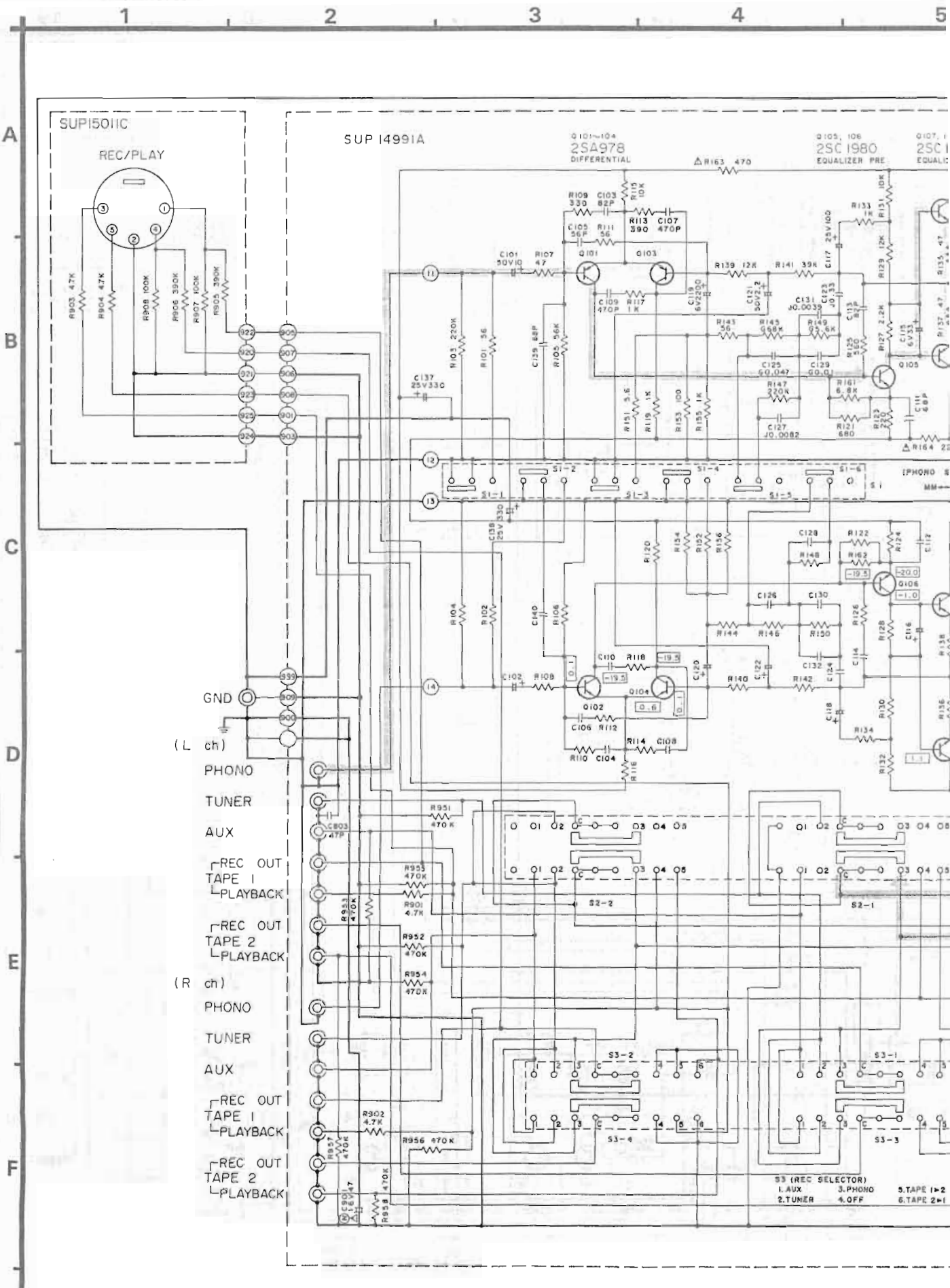


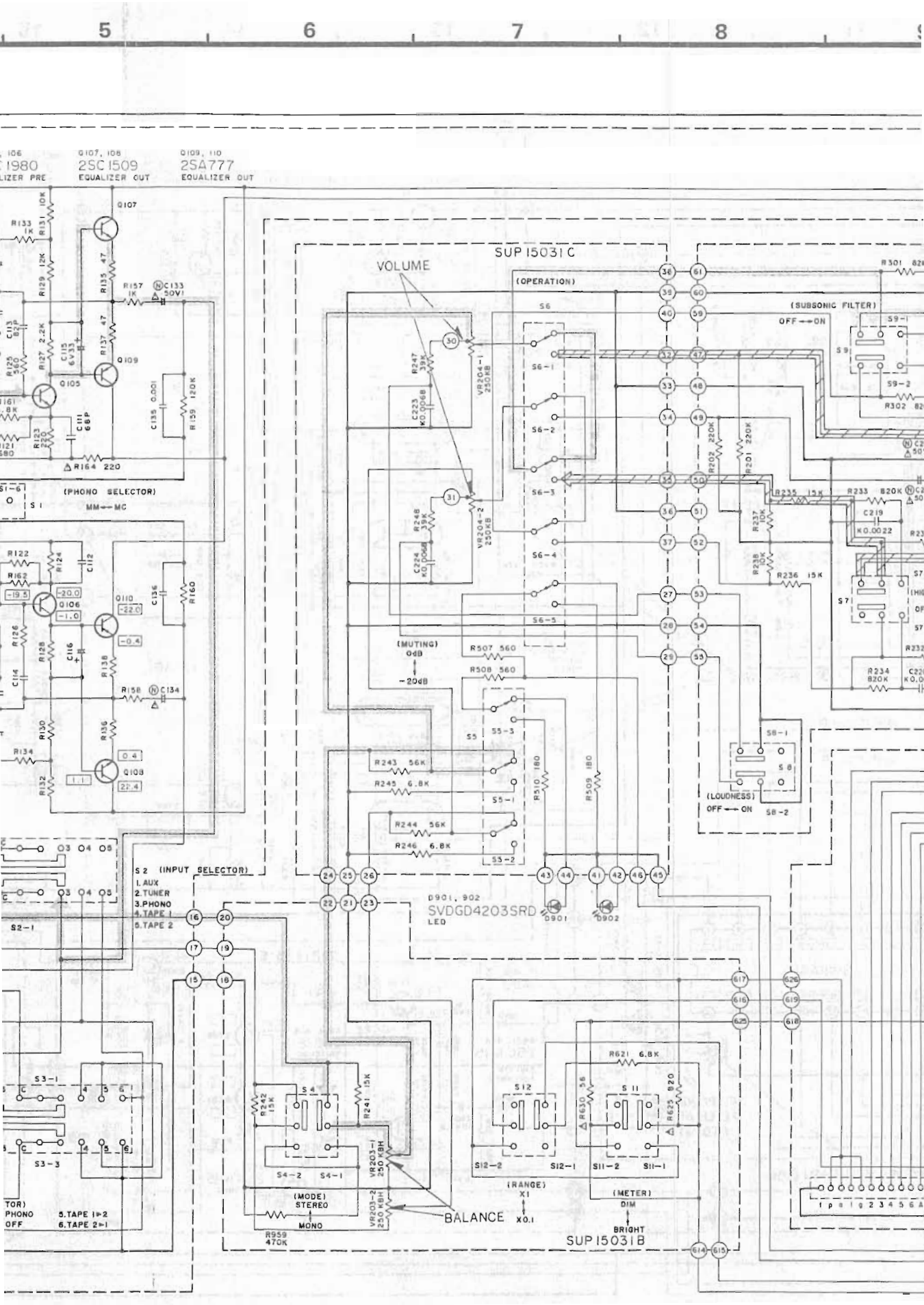
IC601, 602 (SVIBA658)
Level Comparator

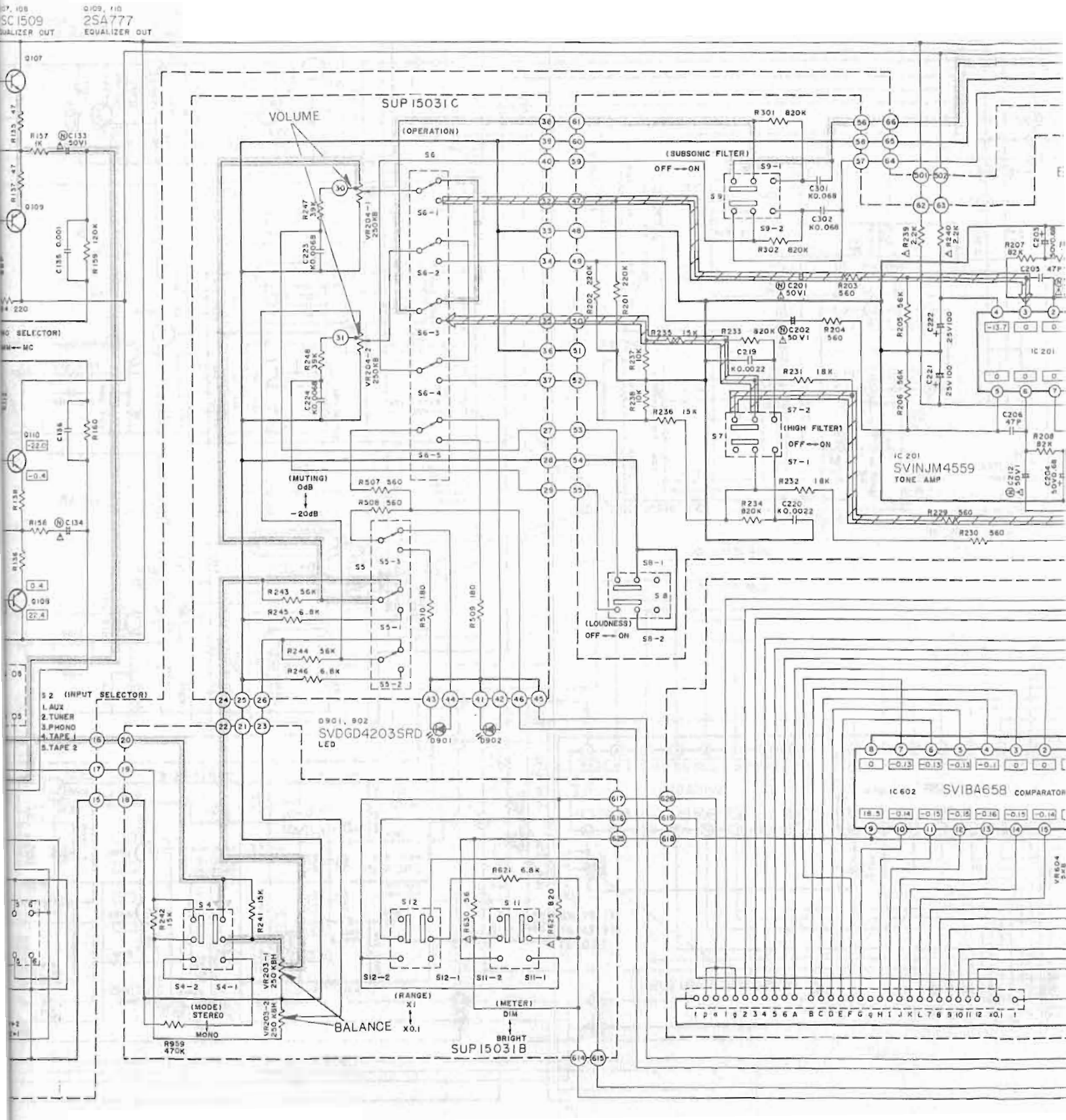


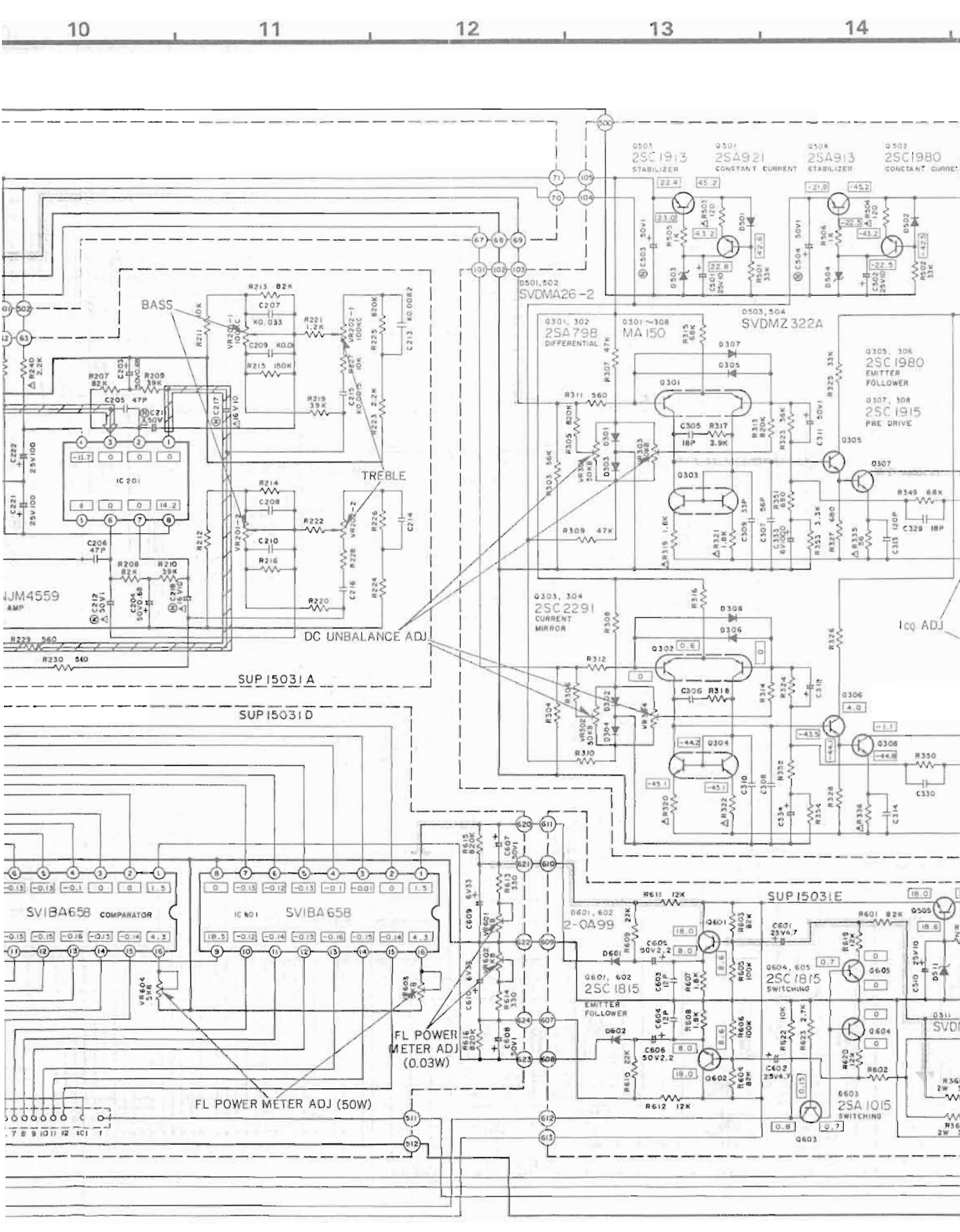
IC201 (SVINJM4559DS)
Tone Amplifier

■ SCHEMATIC DIAGRAM

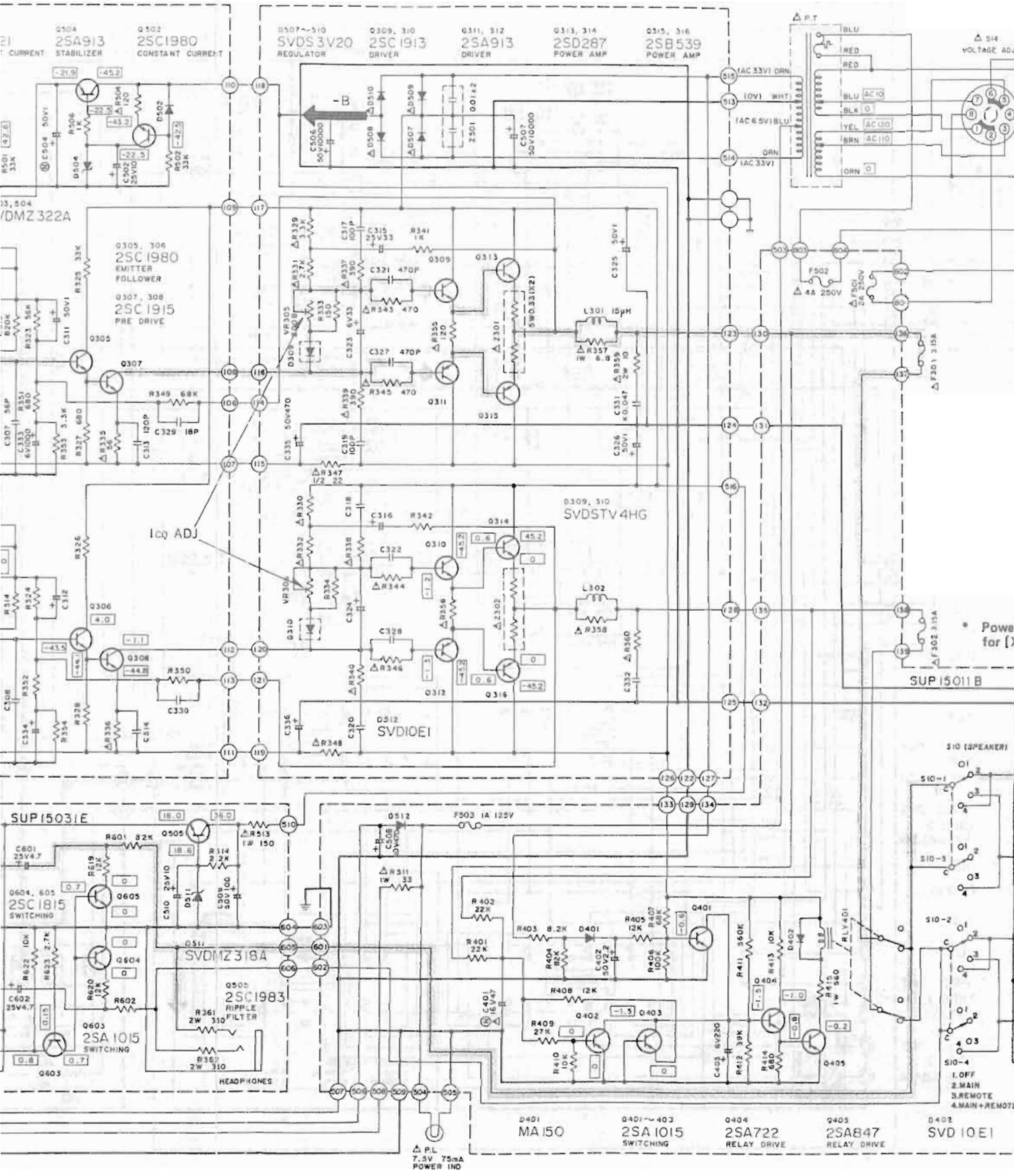


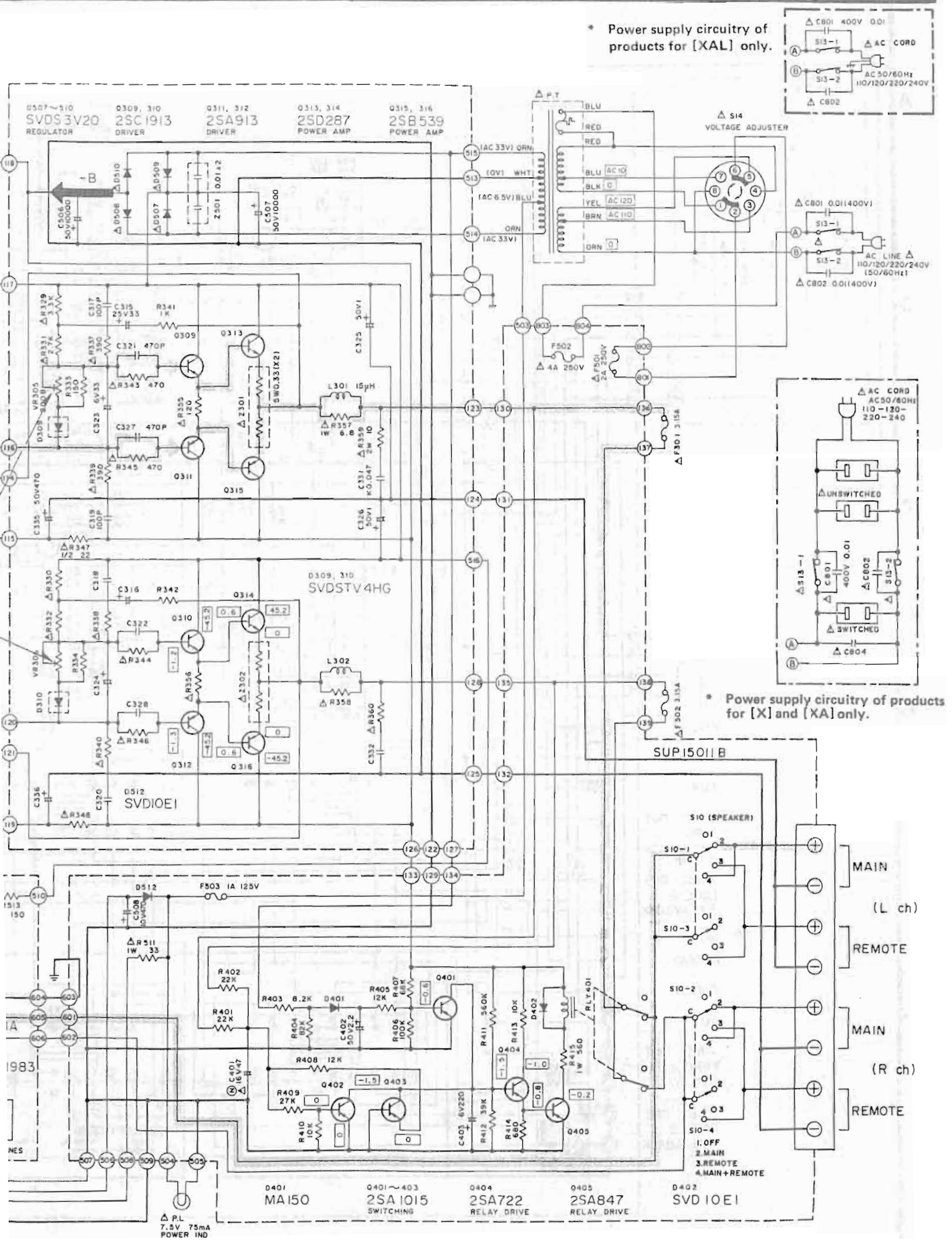

Q106
1980
EQUALIZER PRE
Q107, 108
2SC1509
EQUALIZER OUT
Q109, 110
2SA777
EQUALIZER OUT
Q107
Q109
Q105
Q110
Q106
Q108
R164 220
(PHONO SELECTOR)
MM←→MC
S1
SUP15031C
VOLUME
(OPERATION)
S6
S6-1
S6-2
S6-3
S6-4
S6-5
(SUBSONIC FILTER)
OFF→ON
S9-1
S9-2
S9
R301 82
R302 82
R247 39K
VR204-1 250KB
R248 39K
VR204-2 250KB
C223 K0.0068
C224 K0.0068
R202 220K
R201 220K
R235 15K
R233 820K
C219 K0.0022
R237 10K
R238 10K
R236 15K
S7
S7-1
S7-2
(MUTING)
0dB
-20dB
R507 560
R508 560
S5
S5-3
S5-1
S5-2
R243 56K
R245 6.8K
R244 56K
R246 6.8K
R510 180
R509 180
S8-1
S8
S8-2
(LOUDNESS)
OFF←→ON
R234 820K
D901, 902
SVDGD4203SRD
LED
D901
D902
S2 (INPUT SELECTOR)
1. AUX
2. TUNER
3. PHONO
4. TAPE 1
5. TAPE 2
S2-1
S3-1
S3-3
S4
S4-2
S4-1
R242 15K
R241 15K
VR203-1 250 KBH
VR203-2 250 KBH
(MODE)
STEREO
MONO
R959 470K
BALANCE
S12
S12-2
S12-1
S11
S11-2
S11-1
R621 6.8K
R630 56
R623 820
(RANGE)
X1
X0.1
(METER)
DIM
BRIGHT
SUP15031B
5.TAPE 1→2
6.TAPE 2→1
PHONO
OFF


Q107, 108
2SC1509
EQUALIZER OUT
Q109, 110
2SA777
EQUALIZER OUT
SUP15031C
VOLUME
(OPERATION)
(SUBSONIC FILTER)
OFF ⟷ ON
(HIGH FILTER)
OFF ⟷ ON
(LOUDNESS)
OFF ⟷ ON
(MUTING)
0dB
-20dB
S2 (INPUT SELECTOR)
1.AUX
2.TUNER
3.PHONO
4.TAPE 1
5.TAPE 2
(MODE)
STEREO
MONO
BALANCE
(RANGE)
X1
X0.1
(METER)
DIM
BRIGHT
SUP15031B
D901, 902
SVDGD4203SRD
LED
IC 201
SVINJM4559
TONE AMP
IC 602
SVIBA658
COMPARATOR


10
11
12
13
14
BASS
TREBLE
DC UNBALANCE ADJ
SUP15031A
SUP15031D
SUP15031E
SVDMA26-2
SVDMZ322A
2SC1913
STABILIZER
2SA921
CONSTANT CURRENT
2SA913
STABILIZER
2SC1980
CONSTANT CURRENT
2SA798
DIFFERENTIAL
MA150
2SC1980
EMITTER FOLLOWER
2SC1915
PRE DRIVE
2SC2291
CURRENT MIRROR
2-0A99
2SC1815
EMITTER FOLLOWER
2SC1815
SWITCHING
2SA1015
SWITCHING
SVIBA658
COMPARATOR
IC 601
SVIBA658
FL POWER METER ADJ (0.03W)
FL POWER METER ADJ (50W)
Icq ADJ
NJM4559
AMP

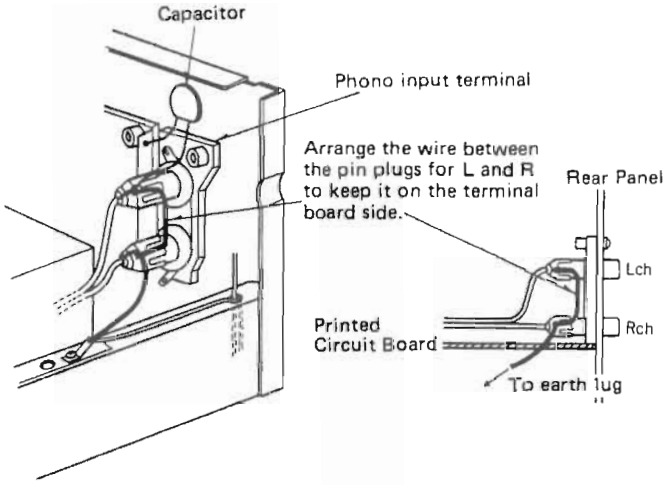
* Power supply circuitry c
products for [XAL] onl



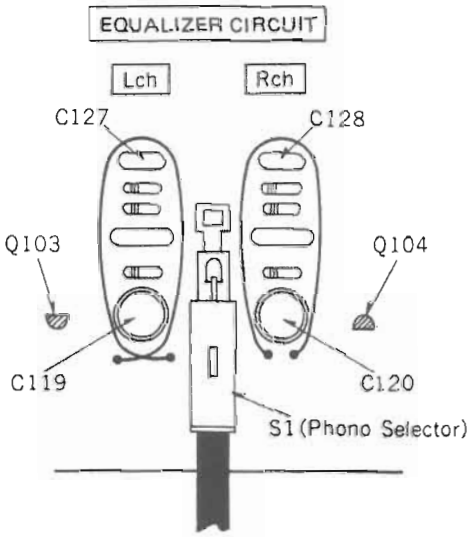

* Power supply circuitry of products for [XAL] only.
* Power supply circuitry of products for [X] and [XA] only.
SUP1501IB
SVDS3V20
REGULATOR
2SC1913
DRIVER
2SA913
DRIVER
2SD287
POWER AMP
2SB539
POWER AMP
SVDSTV4HG
SVD10E1
MA150
2SA1015
SWITCHING
2SA722
RELAY DRIVE
2SA847
RELAY DRIVE
SVD10E1
VOLTAGE ADJUSTER
AC CORD
AC 50/60Hz
110/120/220/240V
AC LINE
UNSWITCHED
SWITCHED
S10 (SPEAKER)
MAIN
(L ch)
REMOTE
MAIN
(R ch)
REMOTE
1. OFF
2. MAIN
3. REMOTE
4. MAIN + REMOTE
F501 2A 250V
F502 4A 250V
F503 1A 125V
P.L 7.5V 75mA POWER IND

■ PRECAUTIONS FOR REPAIR

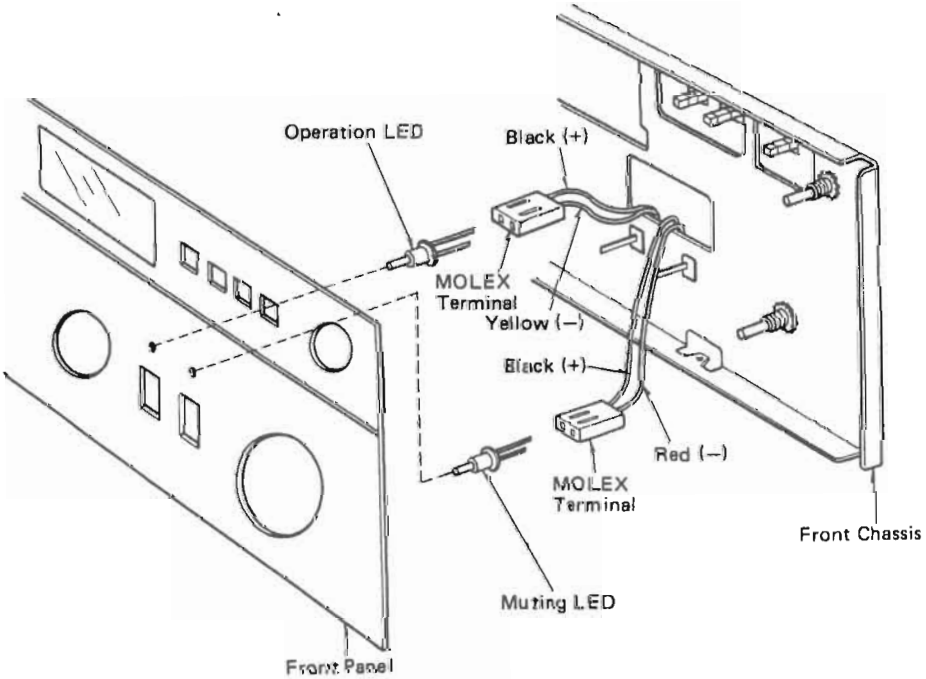
1. Turn off the power supply beforehand, and shortcircuit between the poles of electrolytic condenser 10000μF with a resistance (about 10Ω, 3W) in order to discharge the voltage. When replacing the power transistor, 2SD665 and 2SB645 used must be the same in hFE rank.
2. The S/N of the equalizer circuit has a delicate influence on the wiring position. After repair of this circuit, make the wiring as shown in Fig. 1 and Fig. 2. Hum level can be reduced by this way of wiring.
3. When inserting the lead wires (MOLEX terminal) for operation and for muting into LED's (D901, 902), pay attention to the polarity. (Fig. 3)



[Fig. 1]



[Fig. 2]



[Fig. 3]

D901, 902 (SVDGD4203SRD)

Operation ... ⊕ Black, ⊖ Yellow
Muting ..... ⊕ Black, ⊖ Red

1. Adjustment of unbalanced DC voltage and Icq (idling current of power TR)

- **Conditions of the set, and equipment used**
  1. Operation switch . . . . . straight DC
  2. Subsonic filter . . . . . off or on
  3. Speaker switch . . . . . main
  4. Sound volume . . . . . 0 (minimum)
  5. DC voltmeter
  6. 8-ohm load resistor (used only for unbalanced DC voltage adjustment)

Adjustments	DC voltmeter connections	Adjusting portions	Adjusting procedure
Unbalanced DC voltage	Connect the meter to the speaker terminals for L and R channels in parallel with the resistor.	VR303 (L ch) VR304 (R ch)	(1) Turn off the subsonic filter. (2) Set the meter to "0" with measuring range as small as possible.
Unbalanced DC voltage	Connect the meter to the speaker terminals for L and R channels in parallel with the resistor.	VR301 (L ch) VR302 (R ch)	(1) Turn on the subsonic filter. (2) Set the meter to "0" with measuring range as small as possible.
Icq (idling current of power TR)	(+) side . . . TP3 (−) side . . . TP1 } L ch (+) side . . . TP4 (−) side . . . TP2 } R ch	VR305 (L ch) VR306 (R ch)	Adjust it to about 15mV a few minutes after turning on the power supply.

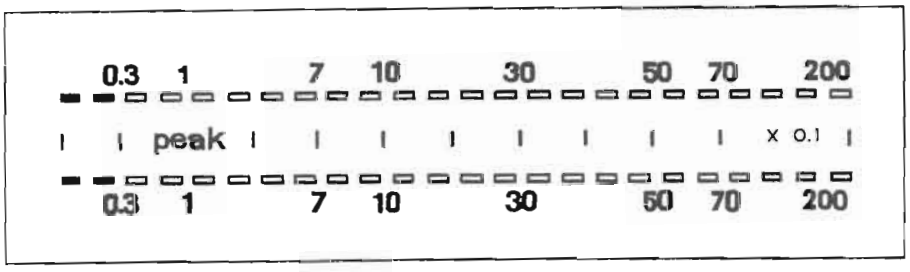
2. Adjustment of FL power meter

- **Conditions of the set, and equipment used**
  1. Input selector . . . . . tuner
  2. Speaker switch . . . . . main
  3. Meter range switch . . . . . X0.1 or X1
  4. Meter brightness switch . . . . . dim or bright
  5. Sound volume . . . . . 10 (max.)
  6. Low frequency oscillator
  7. AC electronic voltmeter
  8. 8-ohm load resistor

2-1. Adjustment of 0.03W

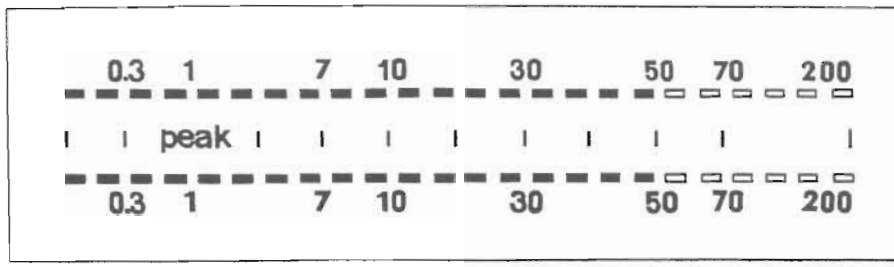
1) Connect the low frequency oscillator to the tuner terminals for both channels, and the AC electronic voltmeter to the speaker terminals in parallel with the load resistor.
2) Set the meter range switch to "X0.1", and the meter brightness switch to "dim".
3) Add 1 kHz signal from the low frequency oscillator, and regulate the input level so that the AC electronic voltmeter indicates 0.75V.
4) Adjust VR601 (L ch) while observing the FL power meter until the first segment is about to turn on. (0.3 x 0.1W).
5) Similarly, make the adjustment of VR602 (R ch). At that time, if the indication of L ch varies, correct VR601.

Note: When the adjustment has been made so that the second segment is about to turn on, the first segment turns on without input.

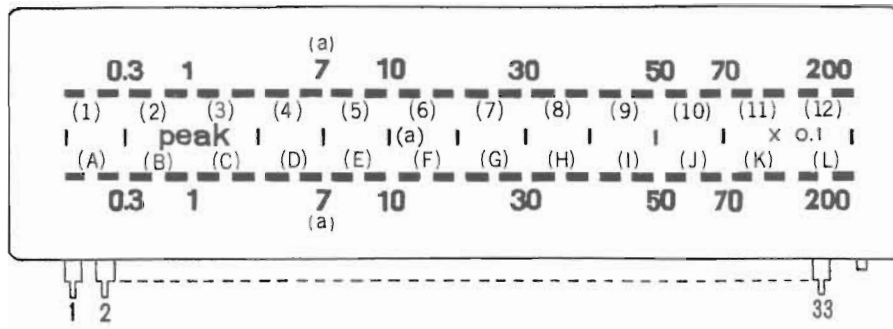


2-2. Adjustment of 50W

1) Set the meter range switch to "X1", and the meter brightness switch to "bright".
2) Regulate the input level so that the AC electronic voltmeter indicates 19V.
3) Make the adjustment in the same way as mentioned in 2-1 by regulating VR603 (L ch) and VR604 (R ch) so that the 9th segment (at 50W position) is about to turn on.
4) Next, make the adjustment in 2-1 (0.03W) by regulating the input level.
5) Again regulate the input level to make the output 19V, and make sure that the segment at 50W position is on.



- **Segment indication pattern**

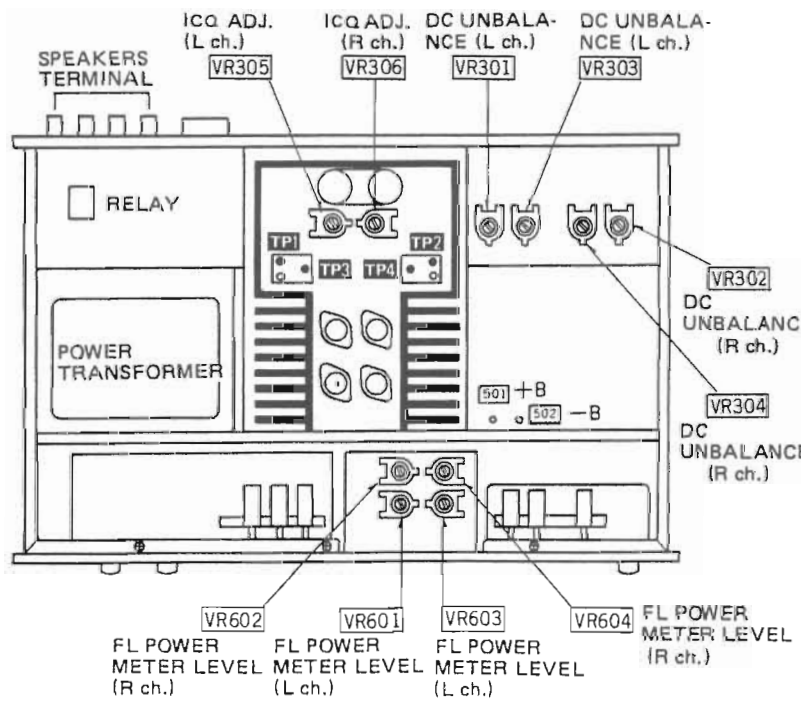


Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Electrode	f	peak	a	1	g	2	3	4	5	6	A	B	C	D	E	F	G

Terminal No.	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Electrode	g	H	I	J	K	L	7	8	9	10	11	12		×0.1		f

Note: 1. (a) represents the segments for the top and bottom number scales and for central bar scales.
2. Each segment consists of two bars.
(▬ ▬ . . . . . 1 segment)

■ ALIGNMENT POINTS



1. Réglage de la tension CC déséquilibrée (Temps mort du transformateur d'alimentation.

- **Conditions de l'appareil et équipement utilisé**

1. Commutateur de fonctionnement ..... Straight DC
2. Filtre subsonique ..... Marche ou arrêt
3. Commutateur du haut-parleur ..... Principal
4. Volume du son ..... 0 (minimum)
5. Voltmètre CC
6. Résistance de 8 ohms de charge (utilisée seulement pour le réglage de la tension CC déséquilibrée)

Réglages	Branchements du voltmètre CC	Sections à régler	Procédé de réglage
Tension CC déséquilibrée	Brancher le compteur aux bornes des canaux D et G du haut-parleur en parallèle avec la résistance.	VR303 (Canal G) VR304 (Canal D)	(1) Couper le filtre subsonique (2) Régler le compteur sur "0" avec une gamme de mesure aussi petite que possible.
Tension CC déséquilibrée	Brancher le compteur aux bornes des canaux G et D du haut-parleur, en parallèle avec la résistance.	VR301 (Canal G) VR302 (Canal D)	(1) Couper le filtre subsonique (2) Régler le compteur sur "0"avec une gamme de mesure aussi petite que possible.
I cq (Courant de temps mort du transformateur d'alimentation)	Côté (+) .... TP3 } Canal G Côté (–) .... TP1 } Côté (+) .... TP4 } Canal D Côté (–) .... TP2 }	VR305 (Canal G) VR306 (Canal D)	Le régler à environ 15mV qualques minutes après avoir branché l'alimentation.

2. Réglage du compteur d'alimentation FL

- **Conditions de l'appareil et équipement utilisé**

1. Sélecteur d'entrée ..... Commande d'accord
2. Commutateur de l'enceinte ..... Principal
3. Commutateur de la gamme du compteur ..... x0,1 ou x 1
4. Commutateur de luminosité du compteur ..... faible ou clair
5. Volume du son ..... 10 maxi.
6. Oscillateur de basse fréquence
7. Voltmètre électronique CA
8. Résistance de 8 ohms de charge

2.1 Réglage de 0,03W

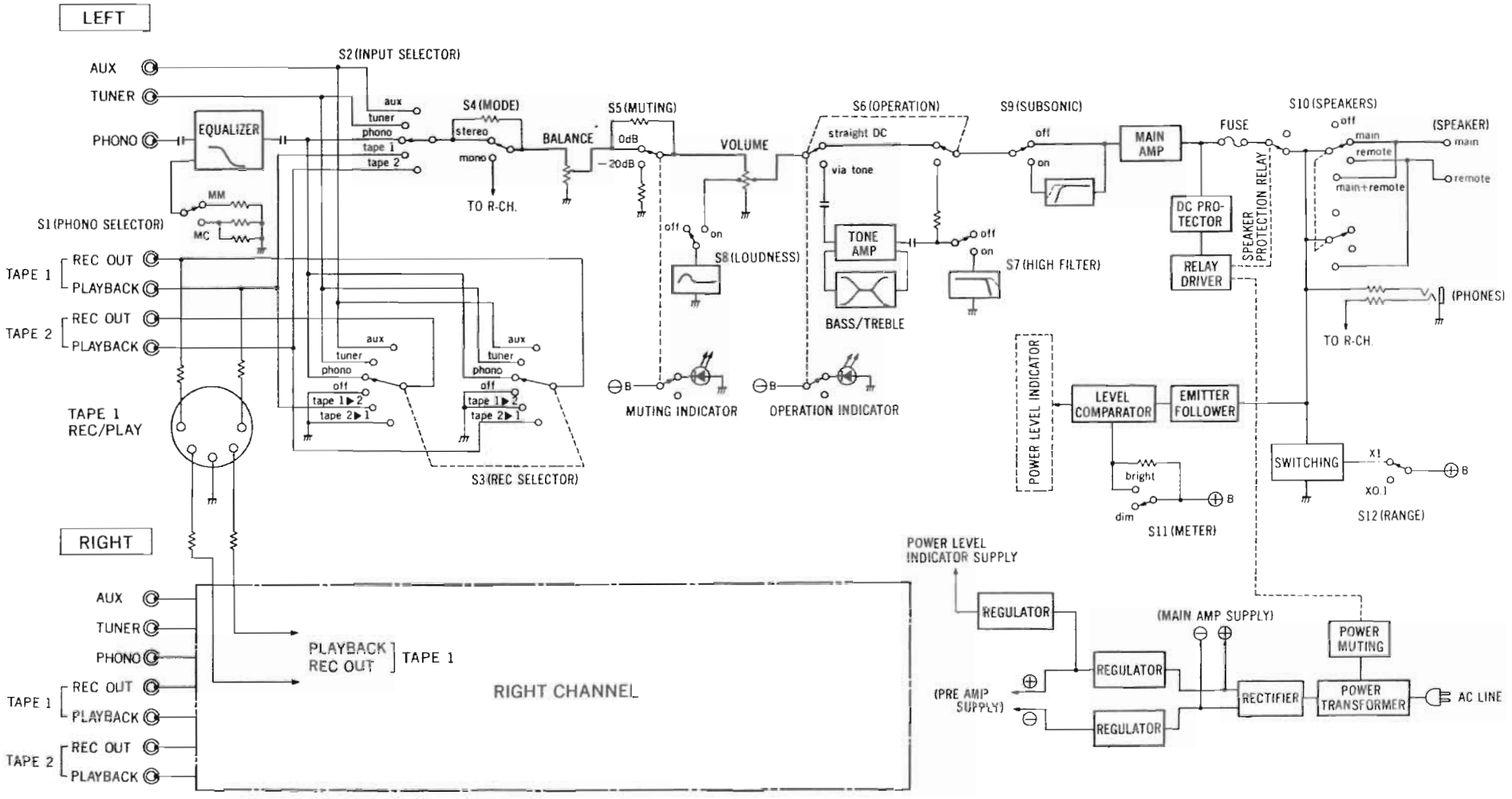
1) Brancher l'oscillateur de basse fréquence aux bornes de la commande d'accord des deux canaux; et le voltmètre électronique aux bornes de l'enceinte en paralléle avec la résistance de change.
2) Placer le commutateur de gamme du compteur sur "X0,1" et le commutateur de luminosité sur "dim"
3) Alimenter un signal de 1 kHz par l'oscillateur de basse fréquence et régler le niveau d'entrée de telle sorte que le voltmètre électronique indique 0,75V.
4) Régler le VR601 (Canal gauche) tout en observant le compteur d'alimentation FL jusqu'à ce que le premier segment soit sur le point d'être branché. (0,3 x 0,1 W).
5) De la même façon, faire le réglage de VR602 (Canal droit). A cette étape, si l'indication du canal gauche varie, corriger VR601.

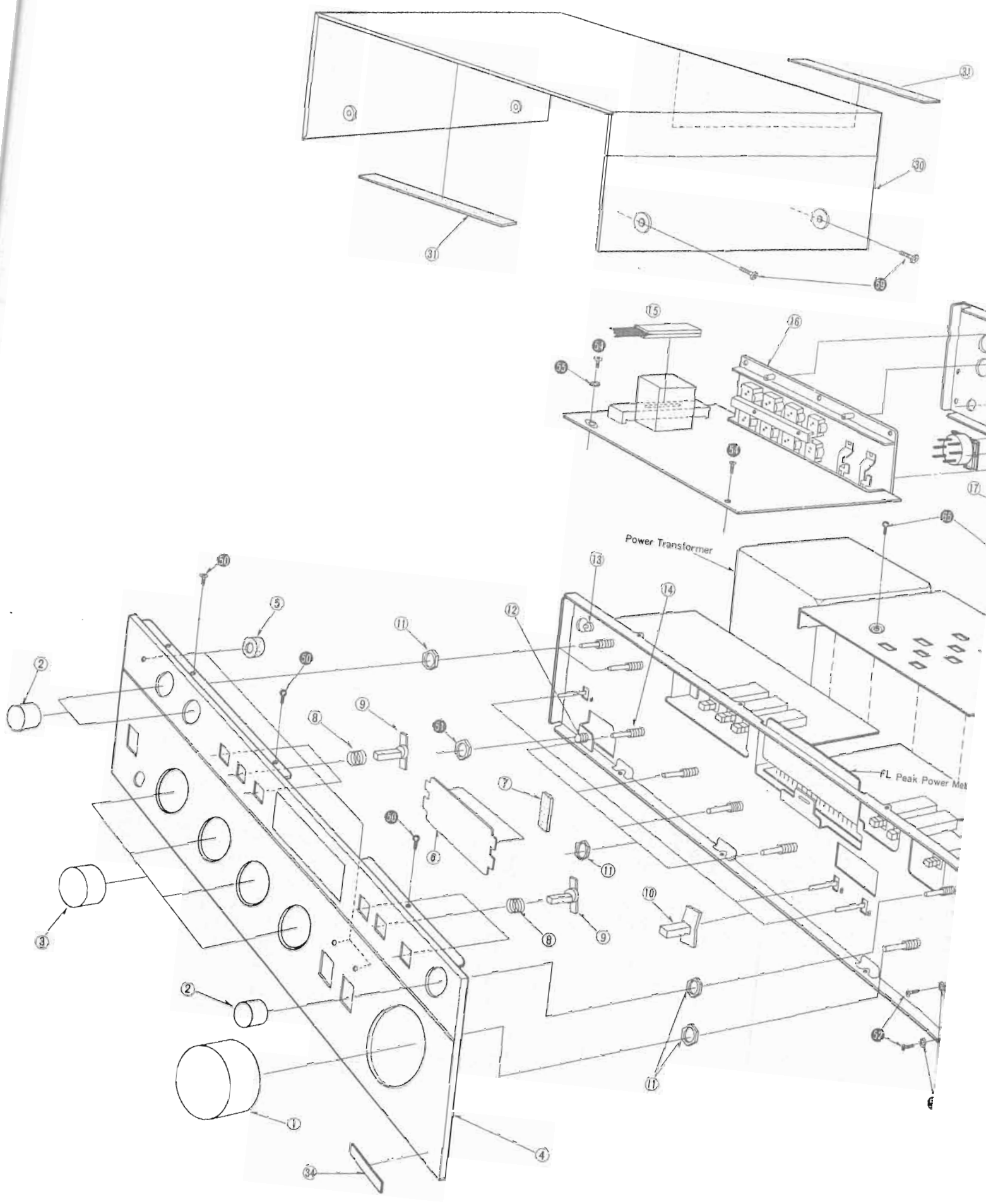
Note: Quand le rélage a été fait de telle sorte que le second segment est sur le point d'être branché, le premier segment s'allume sans entrée.

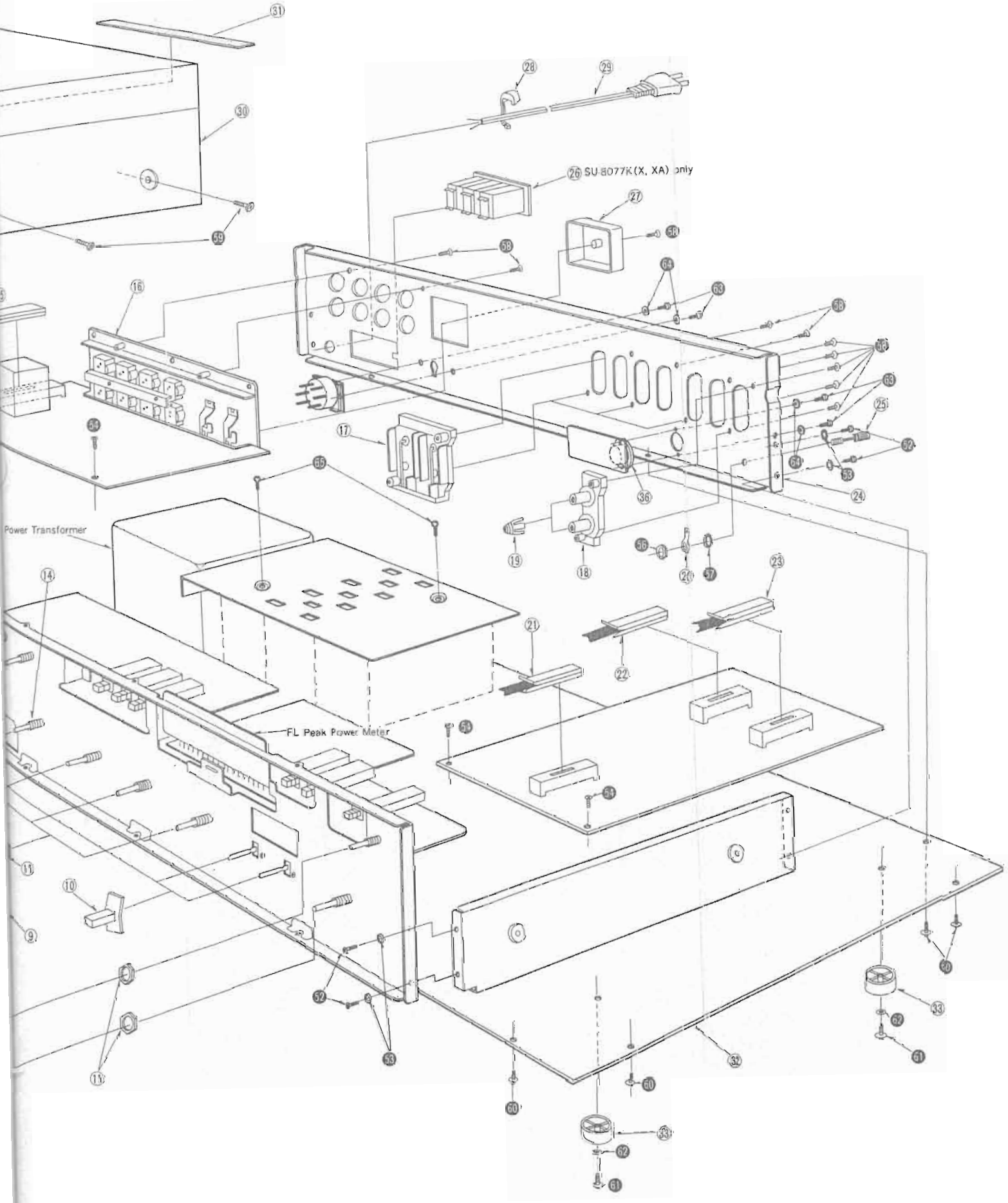
2.2 Réglage de 50W

1) Régler le commutateur de gamme du compteur sur "X1" et le commutateur de luminosité sur "bright".
2) Régler le niveau d'entrée de telle sorte que le compteur électronique indique 19V.
3) Faire le réglage de la même façon que le réglage mentionné dans le paragraphe 2-1 en réglant VR603 (Canal gauche) et VR604 (Canal droit) de telle sorte que le neuvième segment (dans la position de ROW) soit sur le point d'être branché.
4) Effectuer le réglage comme dans le paragraphe 2-1 (0,03W) en réglant le niveau d'entrée.
5) De nouveau régler le niveau d'entrée pour donner une sortie de 19V et s'assurer que le segment à la position 50W, est branché.

■ BLOCK DIAGRAM




Power Transformer
fL Peak Power Met


SU-8077K(X, XA) only
Power Transformer
FL Peak Power Meter

■ 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		SBN821	Knob, Volume Control
2		SBN825	Knob, Balance, Bass & Treble Control
3		SBN823	Knob, Speakers, Rec Selector, Input Selector & Phono Selector
4		SGWU8077M	Panel, Front Ass'y (Silver)
5		SHG1481	Rubber Cushion, Indicator
6		SDU15	Filter, Tinted Plate
7		SHG1479	Rubber Cushion, Tinted Plate Filter
8		SUS123-1	Spring, Push Switch Buttons
9		SBC197	Button, Push Switch
10		SBD19	Knob, Power, Operation & Muting Switch
11		SNE4021	Nut, Volume, Balance, Bass, Treble, Speaker Selector & Input Selector
12		XCJ6P21B-A	Headphones Jack
13		SHGA204	Rubber Cushion, Lamp Holder
14		ESA23421	Remote Switch, Speakers Selector
15		ESA2071	Wire, Speakers Selector
16		SJF8013-1	Terminal, Speakers
17		SJF3421	Terminal, Input
18		SJF3215-1	Terminal, Phono Input
19		SJP1103	Pin Plug, Phono Input Terminal
20		SJT201	Terminal, Earth
21		ESA337	Remote Switch, Phono Selector
22		ESA331	Remote Switch, Rec Selector
23		ESA334	Remote Switch, Input Selector
24 [D, XSW]		SGPU8077D	Rear Panel, SGP1330-1B with Plate (SGP9017)
24 [XGF, XGH EB, DG]		SGPU8077E	Rear Panel, SGP1330-1B with Name Plate (SGT19150) and Plate (SGP9017)
25		SJF4101	Terminal, Ground
27		SUV337	Cover, Speaker Terminal
28		SHR127	Bushing, AC Cord
29 [D, XGF, XGH, EB, DG]	⚠	SJA97	AC Cord, with Plug
29 [XSW]	⚠	SJA111	AC Cord, with Plug
30		SKA10134	Cabinet (Silver)
31		SHS1009	Fiber, Cabinet
32		SKU7210	Bottom Board
33		SKLA7-1	Foot, Set
34		SGK1263	Label, Straight DC & 3DA
36		SJS5609	Socket, DIN (REC/PALY)
SCREWS AND WASHERS			
●		XTB3+8BFN	Screw, Front Panel M'tg
●		XNSS12	Nut, Headphones Jack M'tg
●		XTB3+8BFZ	Screw, Side Panel M'tg
●		XWC3B	Washer, Side Panel Screw
●		XTB3+8BFN	Screw, Printed Circuit Board M'tg
●		XWC3B	Washer, Printed Circuit Board Screw
●		XNG6E	Nut, Ground Terminal M'tg
●		XWC6B	Washer, Ground Terminal
●		XTB3+8BFZ	Screw, Rear Panel, Input Terminal & Speaker Terminal M'tg
●		XTB4+8FFN	Screw, Cabinet M'tg
●		XTB3+8BFZ	Screw, Bottom Board M'tg
●		XTN3+10B	Screw, Set Foot M'tg
●		XWG3	Washer, Set Foot Screw
●		XSN3+6BVS	Screw, DIN Socket & Voltage Adjuster Switch M'tg
●		XWA3BFZ	Washer, DIN Socket & Voltage Adjuster Switch Screw
●		XTB3+8BFZ	Screw, Heat Sink Cover M'tg

■ REPLACEMENT PARTS LIST ..... Electric Parts

Ref. No.		Part No.	Part Name & Description
INTEGRATED CIRCUITS			
IC201		SVINJM4559DS	IC, Tone Amplifier
IC601, 602		SVIBA658	IC, FL Comparator
TRANSISTORS			
Q101, 102, 103, 104		2SA978-G	Transistor, Differential Amplifier (Use in ranks F or G) } Use pair ranks
Q105, 106, 305 306, 502		2SC1980-T	Transistor, Equalizer Amp. & Emitter Follower (Use in ranks R, S or T)
Q107, 108		2SC1509F-R	Transistor, Equalizer Output Amplifier (Use in ranks Q or R)
Q109, 110		**2SA777-Q**	Transistor, Equalizer Output Amplifier
Q301, 302		**2SA798A-G2**	Transistor, Differential Amplifier
Q303, 304		2SC2291-G	Transistor, Current Mirror (Use in ranks F or G)
Q307, 308		2SC1915-G	Transistor, Drive Amplifer (Use in ranks F or G)
Q309, 310		2SC1913-R	Transistor, Drive Amplifier (Use in ranks Q or R) } Use pair ranks
Q311, 312		2SA913-R	Transistor, Drive Amplifier (Use in ranks Q or R) } Use pair ranks
Q313, 314		2SD665-R	Transistor, Power Amplifier (Use in ranks O or R) } Use pair ranks
Q315, 316		2SB645-R	Transistor, Power Amplifier (Use in ranks O or R) } Use pair ranks
Q401, 402, 403, 603		2SA1015-0	Transistor, Switching & FL Meter (Use in ranks Y or O)
Q404		**2SA902S-F**	Transistor, Relay Driver
Q405		2SA847-G	Transistor, Relay Driver (Use in ranks F or G)
Q501		2SA921-T	Transistor, Regulator (Use in ranks R, S or T)
Q503		2SC1913-R	Transistor, Regulator (Use in ranks Q or R)
Q504		2SA913-R	Transistor, Regulator (Use in ranks Q or R)
Q505		2SC1983	Transistor, Ripple Filter
Q601, 602, 604, 605		2SC1815-0	Transistor, FL Meter Driver (Use in ranks Y or O)
DIODES			
D301, 302, 303, 304, 305, 306, 307, 308, 401		MA150	Diode, Bias & Rectifier
D309, 310		SVDSTV4HG	Diode, Bias
D402, 512		SM112	Diode, Relay Coil & Indicator Rectifier
D501, 502		SVDMA26-2	Diode, Regulator
D503, 504		SVDMZ322A	Diode, Zener 22V
D507, 508, 509 510	⚠	SVDS3V20	Rectifier
D511		SVDMZ318A	Diode, Zener 18V
D601, 602		2-OA99	Diode, FL Meter Driver
D901, 902		SVDGD4203SRD	Diode, Muting & Operation Indicator
COILS and TRANSFORMER			
L301, 302		SLQY15G-3P	Coil, Choke
P.T.	⚠	SLT5Q97	Transformer, Power
COMPONENT COMBINATIONS			
Z301, 302		ERF5GEKR33N	Component Combination, 0.33Ω (X2)
Z501		EXRFS203ZS	Component Combination, 0.01μF (X2)
RELAY			
RLY401		SSY19-1	Relay, Speaker Switch
FUSES			
F301, 302	⚠	XBA2C31SSO	Fuse, 3.15A (250V), Speaker Circuit
F501	⚠	XBA2C20TRO	Fuse, 2A (250V), P.T. Primary
F502	⚠	XBAS2C40T1A	Fuse, 4A (250V), P.T. Primary
F503	⚠	XBA2C05TRO	Fuse, 0.5A (250V), P.T. Secondary
LAMP			
PL	⚠	**XAMR28K500**	Lamp, Power Indicator (7.5V, 75mA)
SWITCHES			
S1		ESD80540	Switch, Phono Selector
S2, 3		ESA2682	Switch, Input & Recording Selector
S4, 11, 12		SSH355	Switch, Mode, Range & Meter
S5		SSL129	Switch, Muting
S6		SSL131	Switch, Operation

Ref. No.		Part No.	Part Name & Description
S7, 8, 9		SSH353	Switch, Loudness, Subsonic Filter & High Filter
S10		ESA273	Switch, Speakers Selector
S13	⚠	ESL21182	Switch, Power Source
S14	⚠	ESE37200	Switch, Voltage Adjuster

VARIABLE RESISTORS

VR201		EWKHQY090C15	Bass Control, 100kΩ (C)
VR202		EWKHQ0090C15	Treble Control, 100kΩ (C)
VR203		EWKK4A090252	Balance Control, 250kΩ (BH)
VR204		EWF81AF258F5	Volume Control, 250kΩ (B)
VR301, 302, 303, 304		**EVLS3AA00B54**	DC Unbalance Adjustment, 50kΩ (B)
VR305, 306		**EVLS3AA00B22**	ICQ Adjustment, 200Ω (B)
VR601, 602		**EVLS3AA00B13**	FL Meter Adjustment, 1kΩ (B)
VR603, 604		**EVLS3AA00B53**	FL Meter Adjustment, 5kΩ (B)

METER

FL		SAD24A15YS	Meter, FL Peak-Power

RESISTORS

R101, 102		**ERD25TJ560**	Carbon,	56Ω,	1/4W,	± 5%
R103, 104		**ERD25TJ224**	Carbon,	220kΩ,	1/4W,	± 5%
R105, 106		**ERD25TJ563**	Carbon,	56kΩ,	1/4W,	± 5%
R107, 108		**ERD25TJ470**	Carbon,	47Ω,	1/4W,	± 5%
R109, 110		**ERD25TJ331**	Carbon,	330Ω,	1/4W,	± 5%
R111, 112		**ERD25TJ560**	Carbon,	56Ω,	1/4W,	± 5%
R113, 114		**ERD25TJ391**	Carbon,	390Ω,	1/4W,	± 5%
R115, 116		**ERD25TJ103**	Carbon,	10kΩ,	1/4W,	± 5%
R117, 118		**ERD25TJ102**	Carbon,	1kΩ,	1/4W,	± 5%
R119, 120		**ERD25TJ102**	Carbon,	1kΩ,	1/4W,	± 5%
R121, 122		**ERD25TJ681**	Carbon,	680Ω,	1/4W,	± 5%
R123, 124		**ERD25TJ221**	Carbon,	220Ω,	1/4W,	± 5%
R125, 126		**ERD25TJ561**	Carbon,	560Ω,	1/4W,	± 5%
R127, 128		**ERD25TJ222**	Carbon,	2.2kΩ,	1/4W,	± 5%
R129, 130		**ERD25TJ123**	Carbon,	12kΩ,	1/4W,	± 5%
R131, 132		**ERD25TJ103**	Carbon,	10kΩ,	1/4W,	± 5%
R133, 134		**ERD25TJ102**	Carbon,	1kΩ,	1/4W,	± 5%
R135, 136		**ERD25TJ470**	Carbon,	47Ω,	1/4W,	± 5%
R137, 138		**ERD25TJ470**	Carbon,	47Ω,	1/4W,	± 5%
R139, 140		**ERD25TJ123**	Carbon,	12kΩ,	1/4W,	± 5%
R141, 142		**ERD25TJ393**	Carbon,	39kΩ,	1/4W,	± 5%
R143, 144		**ERD25TJ560**	Carbon,	56Ω,	1/4W,	± 5%
R145, 146		ERQ25CKG6802	Metal Film,	68kΩ,	1/4W,	± 2%
R147, 148		**ERD25TJ224**	Carbon,	220kΩ,	1/4W,	± 5%
R149, 150		ERQ25CKG5601	Metal Film,	5.6kΩ,	1/4W,	± 2%
R151, 152		**ERD25TJ5R6**	Carbon,	5.6Ω,	1/4W,	± 5%
R153, 154		**ERD25TJ101**	Carbon,	100Ω,	1/4W,	± 5%
R155, 156		**ERD25TJ102**	Carbon,	1kΩ,	1/4W,	± 5%
R157, 158		**ERD25TJ102**	Carbon,	1kΩ,	1/4W,	± 5%
R159, 160		**ERD25TJ124**	Carbon,	120kΩ,	1/4W,	± 5%
R161, 162		**ERD25TJ682**	Carbon,	6.8kΩ,	1/4W,	± 5%
R163	⚠	ERD25FJ471	Carbon,	470Ω,	1/4W,	± 5%
R164	⚠	ERD25FJ221	Carbon,	220Ω,	1/4W,	± 5%
R201, 202		**ERD25TJ224**	Carbon,	220kΩ,	1/4W,	± 5%
R203, 204		**ERD25TJ561**	Carbon,	560Ω,	1/4W,	± 5%
R205, 206		**ERD25TJ563**	Carbon,	56kΩ,	1/4W,	± 5%
R207, 208		**ERD25TJ823**	Carbon,	82kΩ,	1/4W,	± 5%
R209, 210		**ERD25TJ393**	Carbon,	39kΩ,	1/4W,	± 5%
R211, 212		**ERD25TJ103**	Carbon,	10kΩ,	1/4W,	± 5%
R213, 214		**ERD25TJ823**	Carbon,	82kΩ,	1/4W,	± 5%
R215, 216		**ERD25TJ154**	Carbon,	150kΩ,	1/4W,	± 5%
R219, 220		**ERD25TJ393**	Carbon,	39kΩ,	1/4W,	± 5%
R221, 222		**ERD25TJ122**	Carbon,	1.2kΩ,	1/4W,	± 5%
R223, 224		**ERD25TJ222**	Carbon,	2.2kΩ,	1/4W,	± 5%
R225, 226		**ERD25TJ824**	Carbon,	820kΩ,	1/4W,	± 5%
R227, 228		**ERD25TJ103**	Carbon,	10kΩ,	1/4W,	± 5%
R229, 230		**ERD25TJ561**	Carbon,	560Ω,	1/4W,	± 5%
R231, 232		**ERD25TJ183**	Carbon,	18kΩ,	1/4W,	± 5%
R233, 234		**ERD25TJ824**	Carbon,	820kΩ,	1/4W,	± 5%
R235, 236		**ERD25TJ153**	Carbon,	15kΩ,	1/4W,	± 5%
R237, 238		**ERD25TJ103**	Carbon,	10kΩ,	1/4W,	± 5%
R239, 240	⚠	ERD25FJ222	Carbon,	2.2kΩ,	1/4W,	± 5%
R241, 242		**ERD25TJ153**	Carbon,	15kΩ,	1/4W,	± 5%
R243, 244		**ERD25TJ563**	Carbon,	56kΩ,	1/4W,	± 5%
R245, 246		**ERD25TJ682**	Carbon,	6.8kΩ,	1/4W,	± 5%
R247, 248		**ERD25TJ393**	Carbon,	39kΩ,	1/4W,	± 5%
R301, 302		**ERD25TJ824**	Carbon,	820kΩ,	1/4W,	± 5%
R303, 304		**ERD25TJ563**	Carbon,	56kΩ,	1/4W,	± 5%
R305, 306		**ERD25TJ824**	Carbon,	820kΩ,	1/4W,	± 5%
R307, 308		**ERD25TJ473**	Carbon,	47kΩ,	1/4W,	± 5%
R309, 310		**ERD25TJ473**	Carbon,	47kΩ,	1/4W,	± 5%
R311, 312		**ERD25TJ561**	Carbon,	560Ω,	1/4W,	± 5%
R313, 314		**ERD25TJ824**	Carbon,	820kΩ,	1/4W,	± 5%
R315, 316		**ERD25TJ683**	Carbon,	68kΩ,	1/4W,	± 5%
R317, 318		**ERD25TJ392**	Carbon,	3.9kΩ,	1/4W,	± 5%
R319, 320	⚠	ERD25FJ182	Carbon,	1.8kΩ,	1/4W,	± 5%
R321, 322	⚠	ERD25FJ182	Carbon,	1.8kΩ,	1/4W,	± 5%
R323, 324		**ERD25TJ563**	Carbon,	56kΩ,	1/4W,	± 5%
R325, 326		**ERD25TJ333**	Carbon,	33kΩ,	1/4W,	± 5%
R327, 328		**ERD25TJ681**	Carbon,	680Ω,	1/4W,	± 5%
R329, 330	⚠	ERD25FJ332	Carbon,	3.3kΩ,	1/4W,	± 5%
R331, 332	⚠	ERD25FJ272	Carbon,	2.7kΩ,	1/4W,	± 5%
R333, 334		**ERD25TJ151**	Carbon,	150Ω,	1/4W,	± 5%
R335, 336	⚠	ERD25FJ560	Carbon,	56Ω,	1/4W,	± 5%
R337, 338	⚠	ERD25FJ391	Carbon,	390Ω,	1/4W,	± 5%
R339, 340	⚠	ERD25FJ391	Carbon,	390Ω,	1/4W,	± 5%
R341, 342		**ERD25TJ102**	Carbon,	1kΩ,	1/4W,	± 5%
R343, 344	⚠	ERD25FJ471	Carbon,	470Ω,	1/4W,	± 5%
R345, 346	⚠	ERD25FJ471	Carbon,	470Ω,	1/4W,	± 5%
R347, 348	⚠	ERQ12HJ470	Fuse type metallic,	47Ω,	1/2W,	± 5%
R349, 350		**ERD25TJ683**	Carbon,	68kΩ,	1/4W,	± 5%
R351, 352		**ERD25TJ681**	Carbon,	680Ω,	1/4W,	± 5%
R353, 354		**ERD25TJ332**	Carbon,	3.3kΩ	1/4W,	± 5%
R355, 356	⚠	ERD25FJ121	Carbon,	120Ω,	1/4W,	± 5%
R357, 358		ERX1ANJ6R8	Metal Film,	6.8Ω,	1W,	± 5%
R359, 360		ERG2ANJ100	Metal oxide,	10Ω,	2W,	± 5%
R361, 362		**ERG2ANJ331**	Metal oxide,	330Ω,	2W,	± 5%
R401, 402		**ERD25TJ223**	Carbon,	22kΩ,	1/4W,	± 5%
R403		**ERD25TJ822**	Carbon,	8.2kΩ,	1/4W,	± 5%
R404		**ERD25TJ823**	Carbon,	82kΩ,	1/4W,	± 5%
R405		**ERD25TJ123**	Carbon,	12kΩ,	1/4W,	± 5%
R406		**ERD25TJ104**	Carbon,	100kΩ,	1/4W,	± 5%
R407		**ERD25TJ683**	Carbon,	68kΩ,	1/4W,	± 5%
R408		**ERD25TJ123**	Carbon,	12kΩ,	1/4W,	± 5%
R409		**ERD25TJ273**	Carbon,	27kΩ,	1/4W,	± 5%
R410		**ERD25TJ103**	Carbon,	10kΩ,	1/4W,	± 5%
R411		**ERD25TJ564**	Carbon,	560kΩ,	1/4W,	± 5%
R412		**ERD25TJ393**	Carbon,	39kΩ,	1/4W,	± 5%
R413		**ERD25TJ103**	Carbon,	10kΩ,	1/4W,	± 5%
R414		**ERD25TJ681**	Carbon,	680Ω,	1/4W,	± 5%
R415		**ERG1ANJ561**	Metal oxide,	560Ω,	1W,	± 5%
R501, 502		**ERD25TJ333**	Carbon,	33kΩ,	1/4W,	± 5%
R503, 504	⚠	ERD25FJ121	Carbon,	120Ω,	1/4W,	± 5%
R505, 506		**ERD25TJ102**	Carbon,	1kΩ,	1/4W,	± 5%
R507, 508		**ERD25TJ561**	Carbon,	560Ω,	1/4W,	± 5%
R509, 510		**ERD25TJ181**	Carbon,	180Ω,	1/4W,	± 5%
R511		**ERG1ANJ330**	Metal oxide,	33Ω,	1W,	± 5%
R513	⚠	ERQ1CJ151	Fuse type metallic,	150Ω,	1W,	± 5%
R514		**ERD25TJ222**	Carbon,	2.2kΩ,	1/4W,	± 5%
R601, 602		**ERD25TJ823**	Carbon,	82kΩ,	1/4W,	± 5%
R603, 604		**ERD25TJ823**	Carbon,	82kΩ,	1/4W,	± 5%
R605, 606		**ERD25TJ104**	Carbon,	100kΩ,	1/4W,	± 5%
R607, 608		**ERD25TJ182**	Carbon,	1.8kΩ,	1/4W,	± 5%
R609, 610		**ERD25TJ223**	Carbon,	22kΩ,	1/4W,	± 5%
R611, 612		**ERD25TJ123**	Carbon,	12kΩ,	1/4W,	± 5%
R613, 614		**ERD25TJ331**	Carbon,	330Ω,	1/4W,	± 5%
R615, 616		**ERD25TJ824**	Carbon,	820kΩ,	1/4W,	± 5%
R619, 620		**ERD25TJ123**	Carbon,	12kΩ,	1/4W,	± 5%
R621		**ERD25TJ682**	Carbon,	6.8kΩ,	1/4W,	± 5%
R622		**ERD25TJ103**	Carbon,	10kΩ,	1/4W,	± 5%
R623		**ERD25TJ272**	Carbon,	2.7kΩ,	1/4W,	± 5%
R625	⚠	ERD25FJ821	Carbon,	820Ω,	1/4W,	± 5%
R630	⚠	ERD25FJ560	Carbon,	56Ω,	1/4W,	± 5%
R951, 952		**ERD25TJ474**	Carbon,	470kΩ,	1/4W,	± 5%
R953, 954		**ERD25TJ474**	Carbon,	470kΩ,	1/4W,	± 5%
R955, 956		**ERD25TJ474**	Carbon,	470kΩ,	1/4W,	± 5%
R957, 958		**ERD25TJ474**	Carbon,	470kΩ,	1/4W,	± 5%
R959		**ERD25TJ474**	Carbon,	470kΩ,	1/4W,	± 5%
R901, 902		**ERD25TJ472**	Carbon,	4.7kΩ,	1/4W,	± 5%
R903, 904		**ERD25TJ472**	Carbon,	4.7kΩ,	1/4W,	± 5%
R905, 906		**ERD25TJ394**	Carbon,	390kΩ,	1/4W,	± 5%
R907, 908		**ERD25TJ104**	Carbon,	100kΩ,	1/4W,	± 5%

CAPACITORS

C101, 102		**ECEA50M10R**	Electrolytic,	10μF,	50V
C103, 104		ECCD1H820K	Ceramic,	82pF,	50V, ±10%
C105, 106		ECCD1H560K	Ceramic,	56pF,	50V, ±10%
C107, 108		ECKD1H471KB	Ceramic,	470pF,	50V, ±10%
C109, 110		ECKD1H471KB	Ceramic,	470pF	50V, ±10%
C111, 112		ECCD1H680K	Ceramic,	68pF,	50V, ±10%
C113, 114		ECCD1H820K	Ceramic,	82pF,	50V, ±10%
C115, 116		**ECEA1CS330**	Electrolytic,	33μF,	16V
C117, 118		**ECEA1ES101**	Electrolytic,	100μF,	25V
C119, 120		**ECEA0JS222**	Electrolytic,	2200μF,	6V
C121, 122		**ECEA50Z2R2**	Electrolytic,	2.2μF,	50V
C123, 124		ECQM1H334JZ	Polyester,	0.33μF,	50V, ± 5%

Ref. No.		Part No.	Part Name & Description
C125, 126		ECQP1473GZ	Polypropylene, 0.047μF, 125V, ± 2%
C127, 128		ECQM1H822JZ	Polyester, 0.0082μF, 50V, ± 5%
C129, 130		ECQP1103GZ	Polypropylene, 0.01μF, 125V, ± 2%
C131, 132		ECQM1H392JZ	Polyester, 0.0039μF, 50V, ± 5%
C133, 134	△	**ECEA50N1**	Non-polar electrolytic, 1μF, 50V
C135, 136		ECQM1H102JZ	Polyester, 0.001μF, 50V, ± 5%
C137, 138		**ECEA1ES331**	Electrolytic, 330μF, 25V
C139, 140		ECCD1H680K	Ceramic, 68pF, 50V, ±10%
C201, 202	△	**ECEA50N1**	Non-polar electrolytic, 1μF, 50V
C203, 204		**ECEA50ZR68**	Electrolytic, 0.68μF, 50V
C205, 206		ECCD1H470K	Ceramic, 47pF, 50V, ±10%
C207, 208		ECQM1H333KZ	Polyester, 0.033μF, 50V, ±10%
C209, 210		ECQM1H103KZ	Polyester, 0.01μF, 50V, ±10%
C211, 212	△	**ECEA50N1**	Non-polar electrolytic, 1μF, 50V
C213, 214		ECQM1H822KZ	Polyester, 0.0082μF, 50V, ±10%
C215, 216		ECQM1H152KZ	Polyester, 0.0015μF, 50V, ±10%
C217, 218	△	**ECEA16N10**	Non-polar electrolytic, 10μF, 16V
C219, 220		ECQM1H222KZ	Polyester, 0.0022μF, 50V, ±10%
C221, 222		**ECEA1ES101**	Electrolytic, 100μF, 25V
C223, 224		ECQM1H682KZ	Polyester, 0.0068μF, 50V, ±10%
C301, 302		ECQM1H683KZ	Polyester, 0.068μF, 50V, ±10%
C305, 306		ECCD1H180K	Ceramic, 18pF, 50V, ±10%
C307, 308		ECCD1H560K	Ceramic, 56pF, 50V, ±10%
C309, 310		ECCD1H330K	Ceramic, 33pF, 50V, ±10%
C311, 312		**ECEA50M1R**	Electrolytic, 1μF, 50V, ±10%
C313, 314		ECCD2H121K	Ceramic, 120pF, 500V, ±10%

Ref. No.		Part No.	Part Name & Description
C315, 316		**ECEA1VS330**	Electrolytic, 33μF, 35V
C317, 318		ECCD2H101K	Ceramic, 100pF, 500V, ±10%
C319, 320		ECCD2H101K	Ceramic, 100pF, 500V, ±10%
C321, 322		ECKD1H471KB	Ceramic, 470pF, 50V, ±10%
C323, 324		**ECEA1CS330**	Electrolytic, 33μF, 16V
C325, 326		**ECEA50Z1**	Electrolytic, 1μF, 50V
C327, 328		ECKD1H471KB	Ceramic, 470pF, 50V, ±10%
C329, 330		ECCD1H180K	Ceramic, 18pF, 50V, ±10%
C331, 332		ECQM1H473KZ	Polyester, 0.047μF, 50V, ±10%
C333, 334		**ECEA0JS102**	Electrolytic, 1000μF, 6V
C335, 336		**ECEA1JS471**	Electorlytic, 470μF, 63V
C401	△	**ECEA16N47**	Non-polar electrolytic, 47μF, 16V
C402		**ECEA50Z2R2**	Electrolytic, 2.2μF, 50V
C403		**ECEA1AS221**	Electrolytic, 220μF, 10V
C501, 502		**ECEA1HS100**	Electrolytic, 10μF, 50V
C503, 504	△	**ECEA50N1**	Non-polar electrolytic, 1μF, 50V
C506, 507		ECET50R103Z	Electrolytic, 10000μF, 50V
C508		**ECEA1AS471**	Electrolytic, 470μF, 10V
C509		**ECEA1HS101**	Electrolytic, 100μF, 50V
C510		**ECEA1HS100**	Electrolytic, 10μF, 50V
C601, 602		**ECEA25Z4R7**	Electrolytic, 4.7μF, 25V
C603, 604		ECCD1H120K	Ceramic, 12pF, 50V, ±10%
C605, 606		**ECEA50Z2R2**	Electrolytic, 2.2μF, 50V
C607, 608		**ECEA50Z1**	Electrolytic, 1μF, 50V
C609, 610		**ECEA1CS330**	Eelctrolytic, 33μF, 16V
C801, 802	△	ECKDHS103SE2	Ceramic, 0.01μF 400VAC +50% -20%
C803		ECCD1H470K	Ceramic, 47pF, 50V, ±10%
C901	△	**ECEA16N4R7**	Non-polar electrolytic, 4.7μF, 16V

■ REPLACEMENT PARTS LIST ..... Accessories and Packings

Ref. No.		Part No.	Part Name & Description
		ACCESSORY	
A1		XBA2C31SSO	Fuse, 3.15A (250V) Speaker Circuit
		PACKING PARTS	
P1		SPP595	Polyethylene Bag
P2		SPS1717-1	Pad, Left Side
P2 [XSW] only		SPS1717	Pad, Left Side
P3		SPS1719-1	Pad, Right Side
P3 [XSW] only		SPS1719	Pad, Right Side
P4		SPG1871	Carton Box
P4 [XSW] only		SPG1875	Carton Box
P4 [XGF] only		SPG1873	Carton Box
P5		SQF10167	Instructions Book, Printed Matter

Notes: (D) and (DG) are available in Scandinavia and European only.
(EB) is available in Belgium only.
(XSW) is available in Switzerland only.
(XGF) is available in France only.
(XGH) is available in Holland only.
(XE) is available in United Kingdom only.
(X) and (XA) are available in Asia, Latin America, Middle East and Africa only.
(XAL) is available in Australia only.

■ CHANGE OF PARTS LIST

SU-8077K

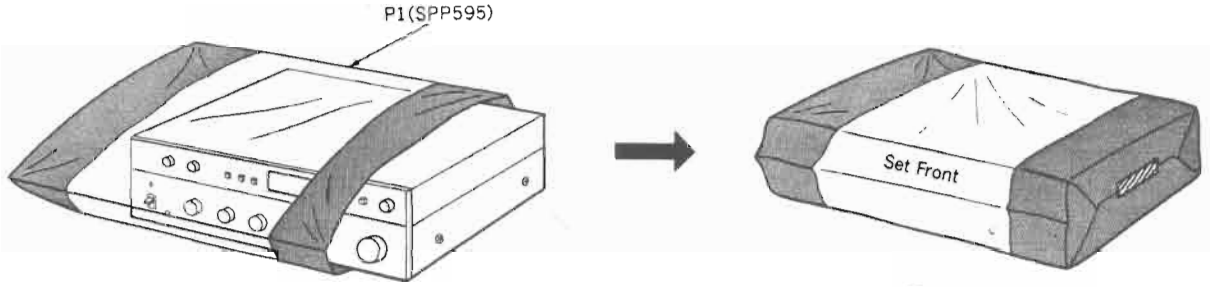
(D), (DG), (EB), (XSW), (X), (XA), (XAL), (XE)

Note: This parts list included only the changes of the model SU-8077 parts list.

Ref. No.	Change of Part No. SU-8077 → SU-8077K		Part Name & Description
	CABINET and CHASSIS PARTS		
1	SBN821	SBN827	Knob, Volume Control
2	SBN825	SBN831	Knob, Balance, Bass & Treble Control
3	SBN823	SBN829	Knob, Speakers, Rec Selector, Input Selector & Phono Selector
4	SGWU8077M	SGWU8077KD	Panel, Front Ass'y (Black)
9	SBC197	SBC197-1	Button, Push Switch
10	SBD19	SBD19-1	Knob, Power Operation & Muting
24	SGPU8077D [D, XSW]	SGPU8077KE [XE, XGH, EB, DG]	Rear Panel, SGP1330-1B with Name Plate (SGT19151) and Plate (SGP9017)
		SGPU8077KX [X, XA]	Rear Panel, SGP1330-1A with Name Plate (SGT19130)
	SGPU8077E [XGF, XGH, EB, DG]	SGPU8077KD [D, XSW]	Rear Panel, SGP1330-1B with Name Plate (SGT19170) and Plate (SGP9017)
		SGPU8077KL [XAL]	Rear Panel, SGP1330-2B with Name Plate (SGT19130) and Plate (SGP9017)

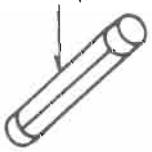
Ref. No.	Change of Part No. SU-8077 → SU-8077K		Part Name & Description
26	—	SJS601 [X, XA] only	Socket, AC Outlet
28	SHR127	SHR127	Bushing, AC Cord
		SHR131 [XAL] only	Bushing, AC Cord
29	SJA97 [D, XGF, XGH, EB, DG]	SJA97 [D, XGH, EB, DG, X, XA]	AC Cord, with Plug
		SJA111 [XSW]	AC Cord, with Plug
	SJA111 [XSW]	RJA45ZC [XE]	AC Cord
		QFC1207M [XAL]	AC Cord.with Plug
30	SKA10134	SKA10135	Cabinet (Black)
	SCREWS and WASHERS		
⑩	XTB3+8BFN	XTB3+8BFZ	Screw, Front Panel M'tg
⑪	XTB4+8FFN	XTB4+8FFZ	Screw, Cabinet M'tg
	ACCESSORIES		
A2	—	SJP5213-1 [X, XA] only	Plug Adapter, AC power
A3	—	SJP5215 [X, XA] only	Plug Adapter, AC Power
	PACKING PARTS		
P2	SPS1717-1	SPS1717-1	Pad, Left Side
	SPS1717 [XSW] only	SPS1717 [XE, XSW] only	Pad, Left Side
P3	SPS1719-1	SPS1719-1	Pad, Right Side
	SPS1719 [XSW] only	SPS1719 [XE, XSW] only	Pad, Right Side
P4	SPG1871 [D, XGH, EB, DG]	SPG2005	Carton Box
	SPG1875 [XSW]		
	SPG1873 [XGF]	SPG2007 [XE, XSW] only	Carton Box

■ PACKINGS

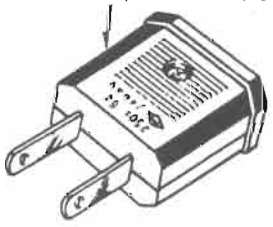


■ ACCESSORIES

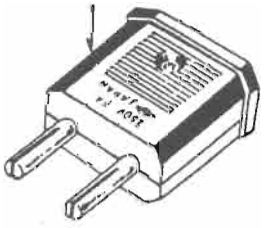
A1 (XBA2C31SSO)

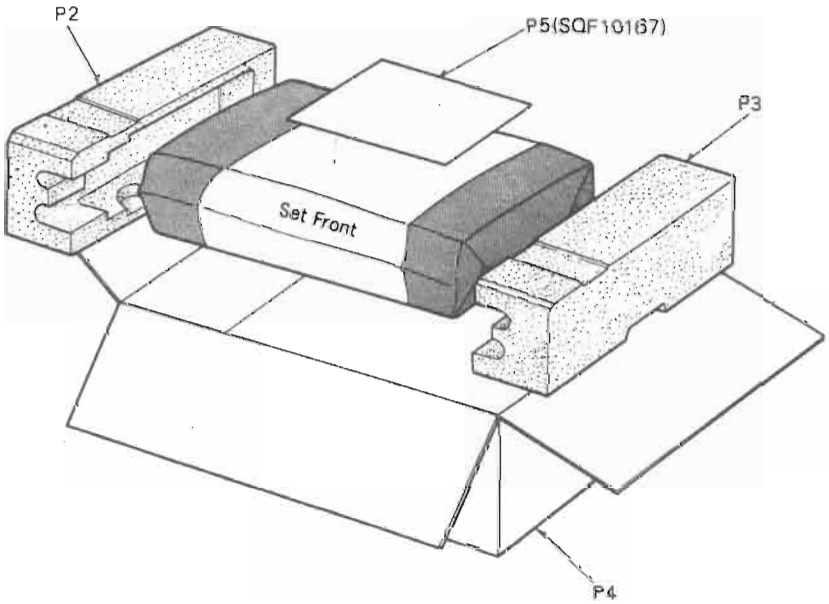


A2 (SJP5213-1) [K-X, XA] only



A3 (SJP5215) [K-X, XA] only





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