

# Service Manual

Stereo Integrated Amplifier

## SU-7300

(M), (MC)



Simulated wood cabinet

- The model SU-7300 (M) is available in America only.
- The model SU-7300 (MC) is available in Canada only.

### TECHNICAL SPECIFICATIONS (Specifications are subject to change without notice for further improvement.)

#### AMPLIFIER SECTION

Rated minimum sine wave RMS power output  
20 Hz ~ 20 kHz  
both channels driven  
0.08% total harmonic distortion  
48W per channel (4 ohms)  
41W per channel (8 ohms)

1 kHz continuous power output  
both channels driven  
0.08% total harmonic distortion  
55W per channel (4 ohms)  
43W per channel (8 ohms)

Total harmonic distortion  
0.08% at rated power (20 Hz ~ 20 kHz)  
0.04% at half power (20 Hz ~ 20 kHz)  
0.02% at half power (1 kHz)

Intermodulation distortion 0.08%  
Damping factor 20 (4 ohms), 40 (8 ohms)

Input sensitivity and impedance  
PHONO 2.5mV/47 kilohms  
TUNER 150mV/47 kilohms  
TAPE 1, 2 (PLAYBACK) 150mV/47 kilohms  
PHONO maximum input voltage (1 kHz, RMS) 150mV  
S/N (IHF, A)  
PHONO 78 dB  
TUNER 97 dB  
Residual hum and noise 0.6mV

#### Frequency response

PHONO RIAA standard curve  $\pm 0.3$  dB  
TUNER 7 Hz ~ 80 kHz,  $-3$  dB  
20 Hz ~ 20 kHz,  $\pm 0.5$  dB

#### Tone controls

BASS 50 Hz,  $+12$  dB ~  $-12$  dB  
TREBLE 20 kHz,  $+12$  dB ~  $-12$  dB

#### High filter

8 kHz,  $-6$  dB/oct.

#### Loudness control (volume at $-30$ dB)

100 Hz,  $+8$  dB

#### Output voltage

TAPE 1, 2 (REC OUT) 150mV

#### Load impedance

MAIN or REMOTE 4 ~ 16 ohms

#### GENERAL

Power consumption 140W (only for America)  
260VA (only for Canada)

Power supply AC 120V 60 Hz

Dimensions (W x H x D)  $17 \frac{5}{16}$ "  $\times$   $5 \frac{3}{4}$ "  $\times$   $13 \frac{5}{32}$ "  
(441 x 146 x 334) mm

Weight 20.1 lb. (9.1 kg)

Weights and dimensions shown are approximate.

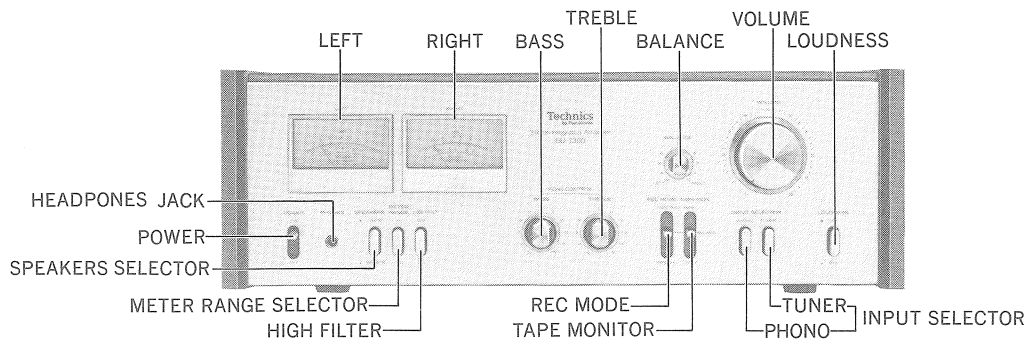
**Technics**  
by Panasonic

Panasonic Company  
Division of Matsushita Electric  
Corporation of America  
One Panasonic Way, Secaucus,  
New Jersey 07094

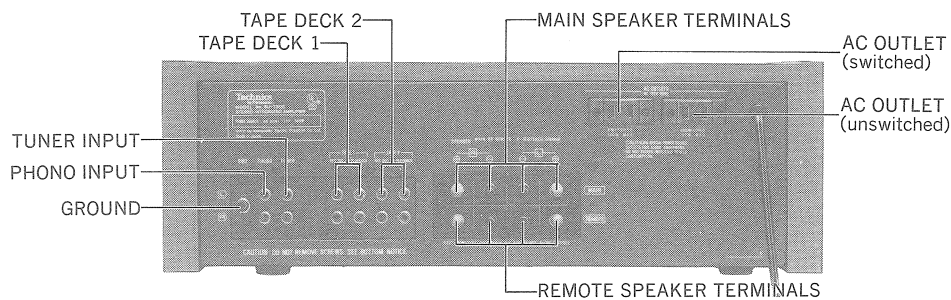
Matsushita Electric of Hawaii, Inc.  
320 Waiakamilo Road, Honolulu,  
Hawaii 96817

Matsushita Electric of Canada Ltd.  
40 Ronson Drive, Rexdale,  
Ontario, Canada M9W 1B5

## ■ LOCATION OF CONTROLS



Front Panel View



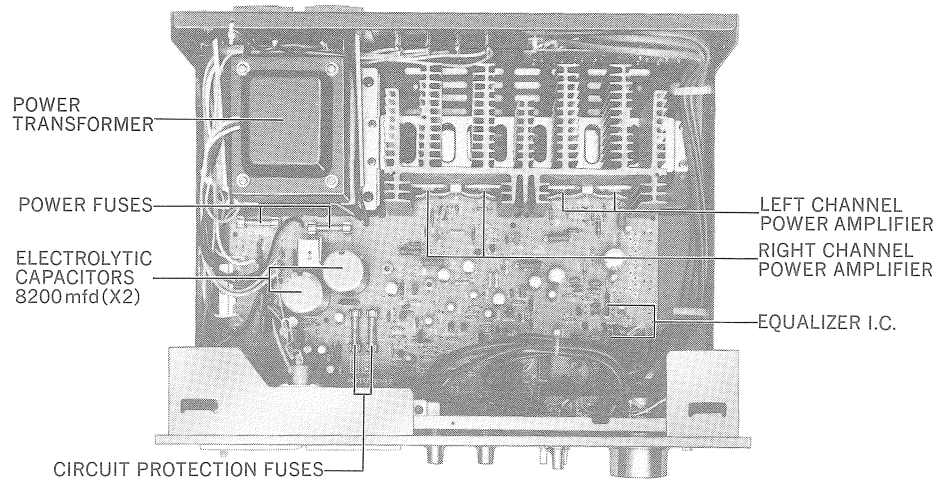
Rear Panel View

### 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 transistor 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 protection fuses first of all for possible blowing.



Chassis View

## ■ TO REMOVE CABINET

1. Remove four (4) cabinet-mounting screws, nos. ① ~ ④, as shown in fig. 1.
2. Remove cabinet from chassis.
3. To reassemble, reverse above procedure.

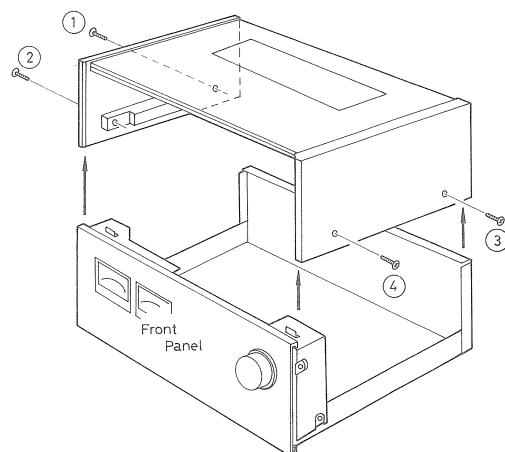


Fig. 1

## ■ TO REMOVE CHASSIS

1. Remove cabinet from chassis. (Refer to "To remove cabinet")
2. Remove four (4) panel bracket-mounting screws, nos. ① ~ ④, as shown in fig. 2.
3. Remove panel bracket from chassis. (right and left side)
4. Remove four (4) panel-mounting screws, nos. ⑤ ~ ⑧, as shown in fig. 2.
5. Remove lead wire from lead clamp, as shown in fig. 3.

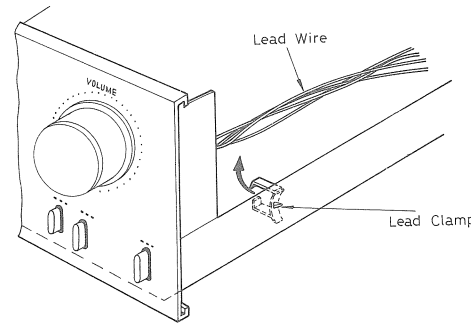


Fig. 3

6. Remove a metal clamp-mounting screw, no. ⑨, as shown in fig. 4.
7. Remove metal clamp of printed circuit board.
8. Remove four (4) heatsink-mounting screws, nos. ⑩ ~ ⑬, as shown in fig. 4.

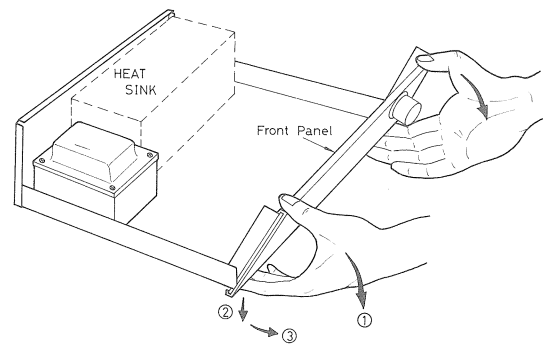


Fig. 5

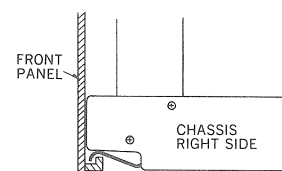


Fig. 6

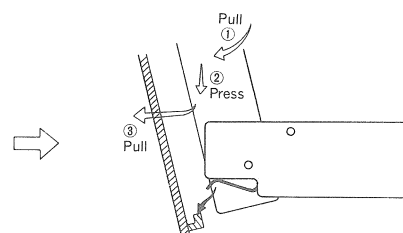


Fig. 7

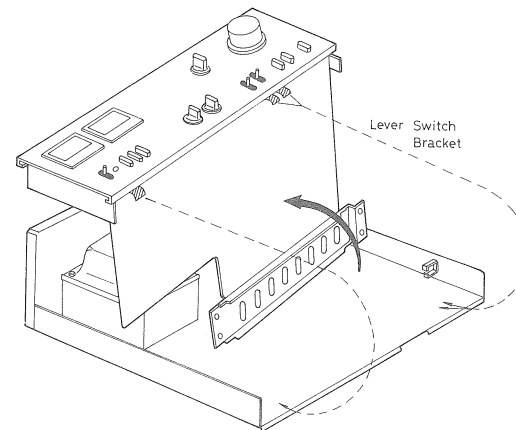


Fig. 8

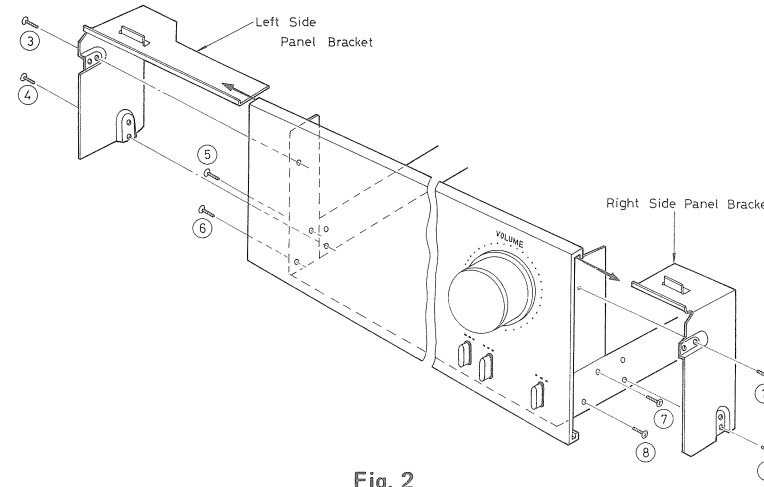


Fig. 2

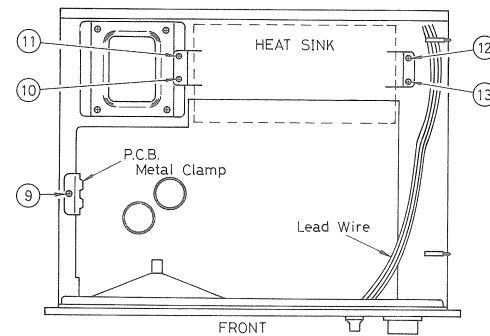


Fig. 4

9. As shown in fig. 5, hold the panel at its side ends and push it downward tilting slightly its top part to the frontward direction.
10. Remove the front panel from the chassis, as shown in fig. 6 to fig. 7.
11. Set the printed circuit board on the chassis as indicated in fig. 8.
12. The front panel can be reset in the reverse sequence.
13. Mount the lever switch bracket inside the chassis prior to resetting the front panel, as shown in fig. 8.

## ■ ALIGNMENT INSTRUCTIONS

- When the power transistor is replaced, be sure to apply silicone compound (or equivalent thermal diffusion agent) onto the mica plate, and at the same time confirm the idling current of the power transistor. (measure voltage across the emitter resistance)
- Ⓐ For adjustment with DC voltmeter
  1. Turn the speaker switch "OFF".
  2. Connect the DC voltmeter as in fig. 9 of the adjusting spot diagram.
  3. If the reading is under 25mV approximately several minutes after turning ON the power supply, the circuit is "OK". On the other hand, if the reading is over 25mV, cut off the lead wire for **L** in the case of left channel (The lead wire for **R** in the case of right channel).
  4. Should the reading not fall under 25mV even when the lead wire has been cut off, there is something wrong with the circuit, and therefore, check the power source circuit or main amplifier circuit.
- Ⓑ Current should be checked only when adjustment is made with a tester. (measuring instrument incapable of measuring voltage in mV unit).
  1. Turn OFF the power supply for the set.
  2. Connect the ammeter as shown in fig.11.
  3. After ensuring that the ammeter will not come off, turn ON the power supply.
  4. If the reading is under 75mA after several minutes (But, when nothing resistance of internal resistor by ammeter) the circuit is "OK". If over 75mA, cut off the lead wire for **L** in the case of left channel (The lead wire for **R** in the case of right channel).
  5. If the reading does not fall under 75mA, there is something wrong with the circuit.

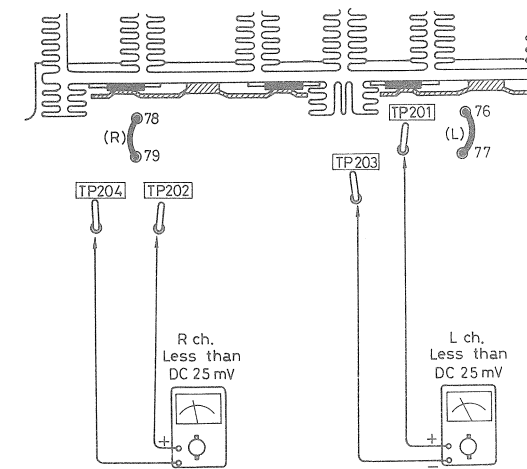
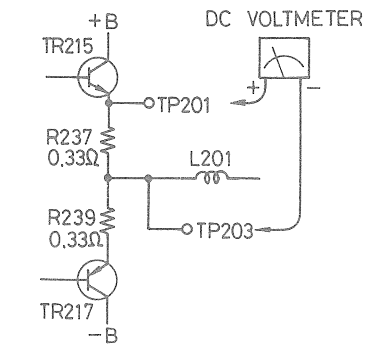


Fig. 9

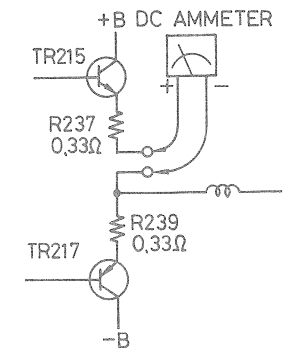
Notes:

1. When cutting off the lead wire, cut off the same at root.
2. The adjustment may be made either by Ⓐ or by Ⓑ method. (We recommend the method Ⓐ where possible).
3. Fig. 10 and 11 are related to the case of left channel.



Voltage check method

Fig. 10



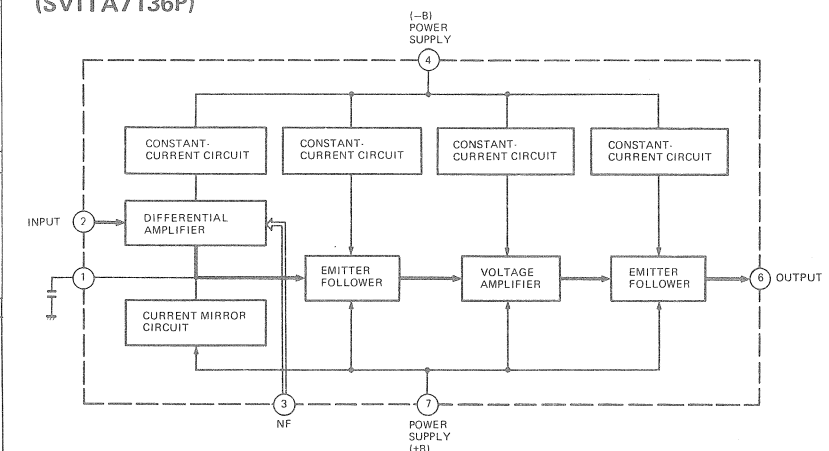
Current check method

Fig. 11

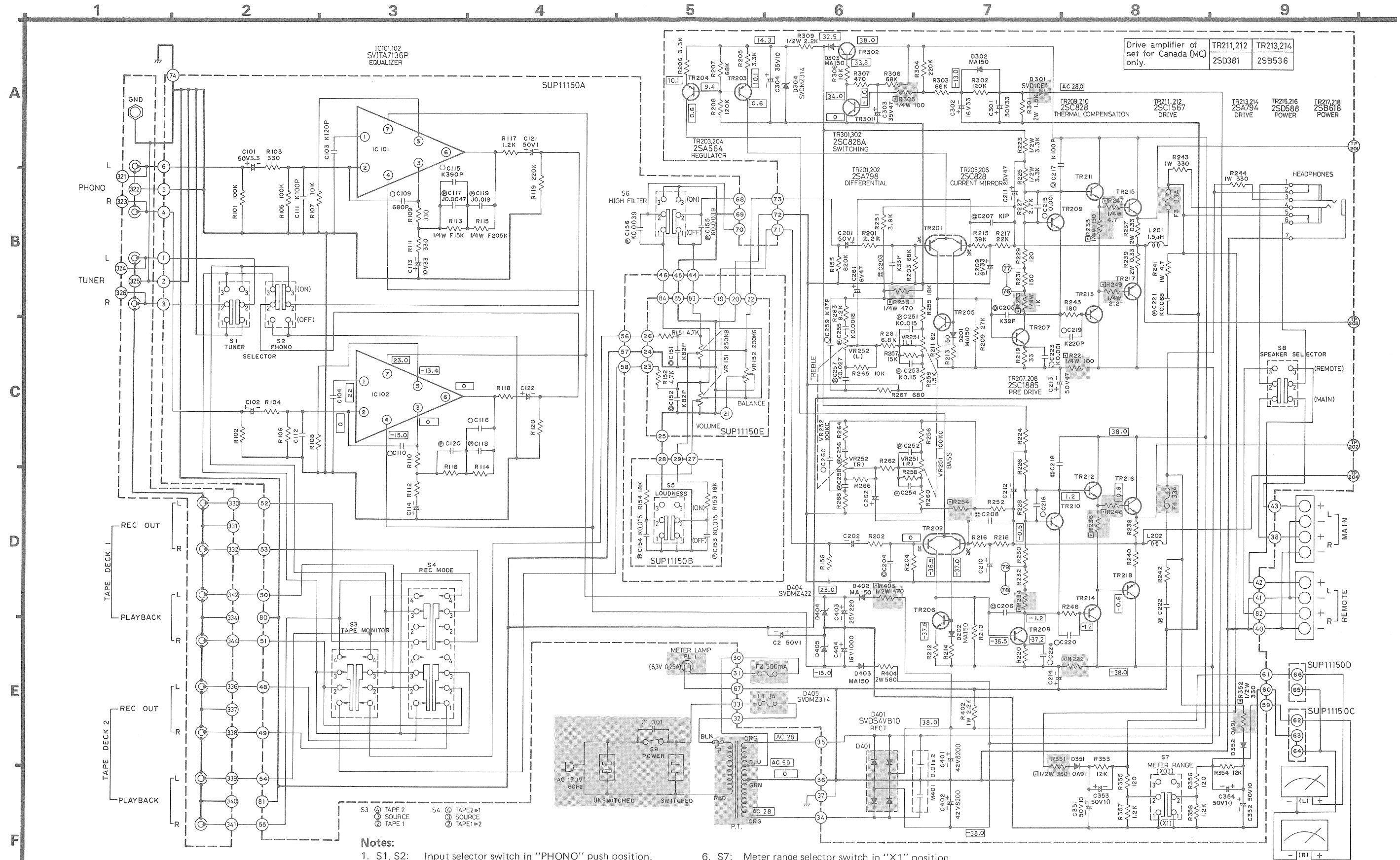
## ■ TR. & I.C. TERMINAL GUIDE ■ BLOCK DIAGRAM OF INTEGRATED CIRCUIT

2SA798	2SA564 2SC828 2SC828A 2SC1885	2SB618 , 2SD588
	2SA794 , 2SC1567	SVITA7136P
		2SB536 , 2SD381

IC101, IC102  
(SVITA7136P)



# Schematic Diagram ..... Model SU-7300



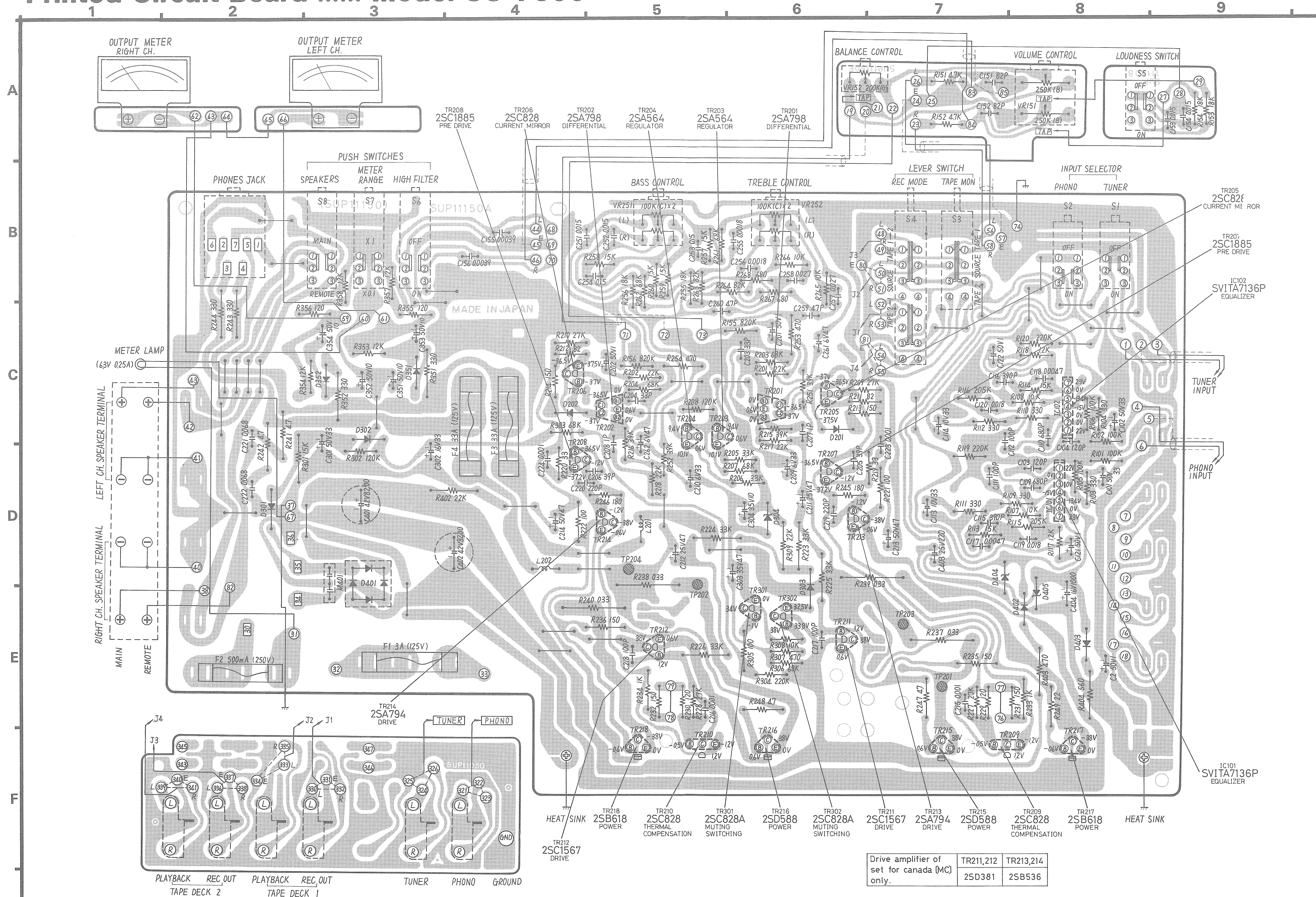
**IMPORTANT SAFETY NOTICE**  
 THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR SAFETY. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

**Notes:**

1. S1, S2: Input selector switch in "PHONO" push position.  
 S1 ..... (TUNER) S2 ..... (PHONO)
2. S3: Tape monitor switch in "SOURCE" position.  
 ②(TAPE 1) ↔ ③(SOURCE) ↔ ④(TAPE 2)
3. S4: Recording mode switch in "SOURCE" position.  
 ②(TAPE 1 ▶ 2) ↔ ③(SOURCE) ↔ ④(TAPE 2 ▶ 1)
4. S5: Loudness switch in "OFF" position.
5. S6: High filter switch in "OFF" position.
6. S7: Meter range selector switch in "X1" position.  
 (X1 ↔ X 0.1)
7. S8: Speakers selector switch in "MAIN" position.  
 (MAIN ↔ REMOTE)
8. S9: Power switch in "OFF" position.
9. 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.
10. This schematic diagram may be modified at any time with the development of new technology.



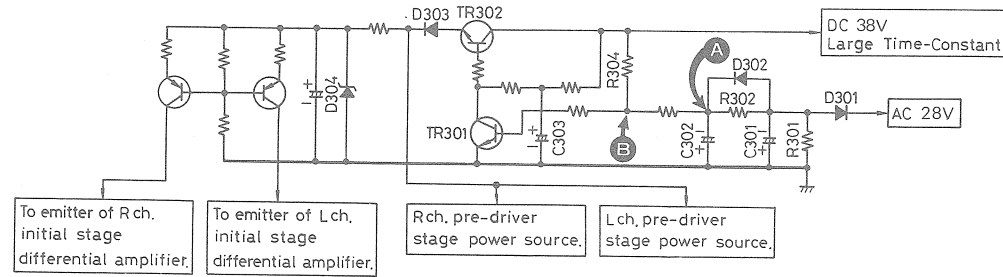
# Printed Circuit Board ..... Model SU-7300



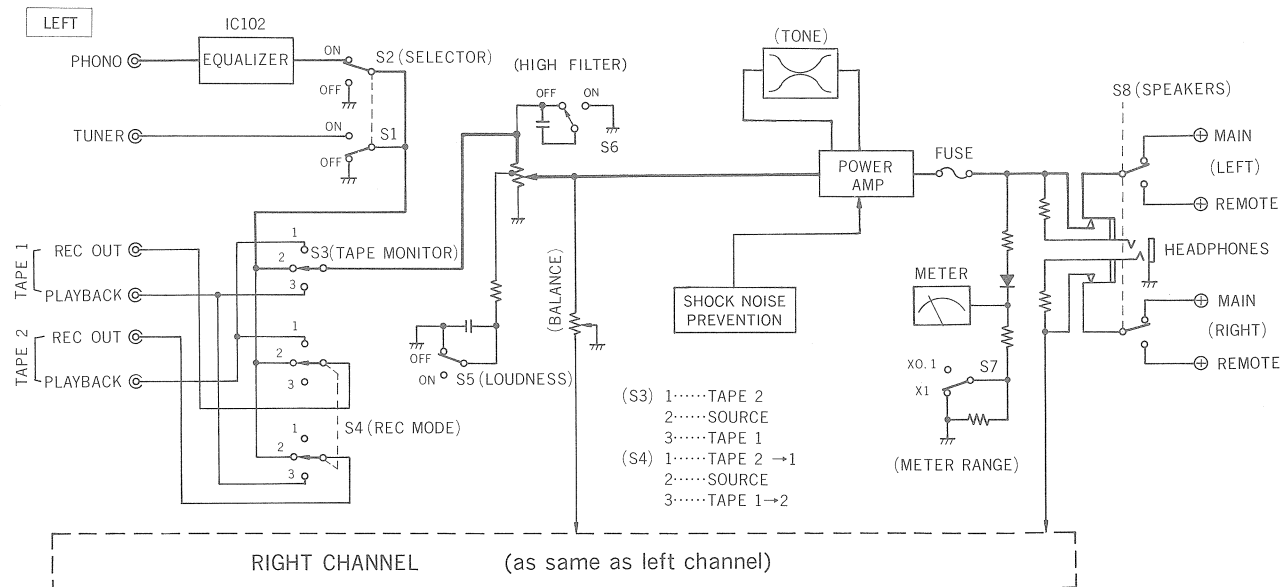
## SERVICE AID

### Shock noise prevention circuit during ON-OFF of power supply

In the voltage at the point (A), at the moment when the power supply is turned ON, C302 is charged by the current rectified to negative through D301. Therefore, gradual change to minus takes place from 0V. During this time, positive voltage is applied to the base of TR301 which is thus rendered conductive. Consequently, the base of TR302 connected to TR301 is of ground potential, with TR302 not being functioning. In other words, no current is flowing through the preamplifier in this state. After the power supply is turned ON, the potential at the point (B) gradually decreases as the point (A) is saturated to negative through time constant of R302 and C302, and when TR301 reaches cut-off state, positive voltage goes on charging C303. Upon rising of the base potential of TR302 close to 0.7V, TR302 is turned ON, thus causing current to flow through the preamplifier. Time required from turning ON of the power supply to functioning of the preamplifier is set to be approximately 6 to 7 seconds. When the power supply is turned OFF, D302 is biased in the forward direction, and if  $R301 \ll R302$ , the charges in C301 and C302 are discharged through R301 in a short period of time. However, large positive voltage of specific constant does not fall immediately, with voltage at the point (B) rising up to TR301 operating voltage for causing TR301 to function. Accordingly, the charge in C303 is discharged, and TR302 rapidly reaches cut-off state, with current being prevented from flowing through the preamplifier, so that the shock noises from the preamplifier section during turning OFF of the power supply can be eliminated.



## BLOCK DIAGRAM



## REPLACEMENT PARTS LIST

**Important Safety Notice**  
Components identified by shaded area have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

**NOTE:** 1. Part numbers are indicated on most mechanical parts.  
Please use this part number for parts orders.

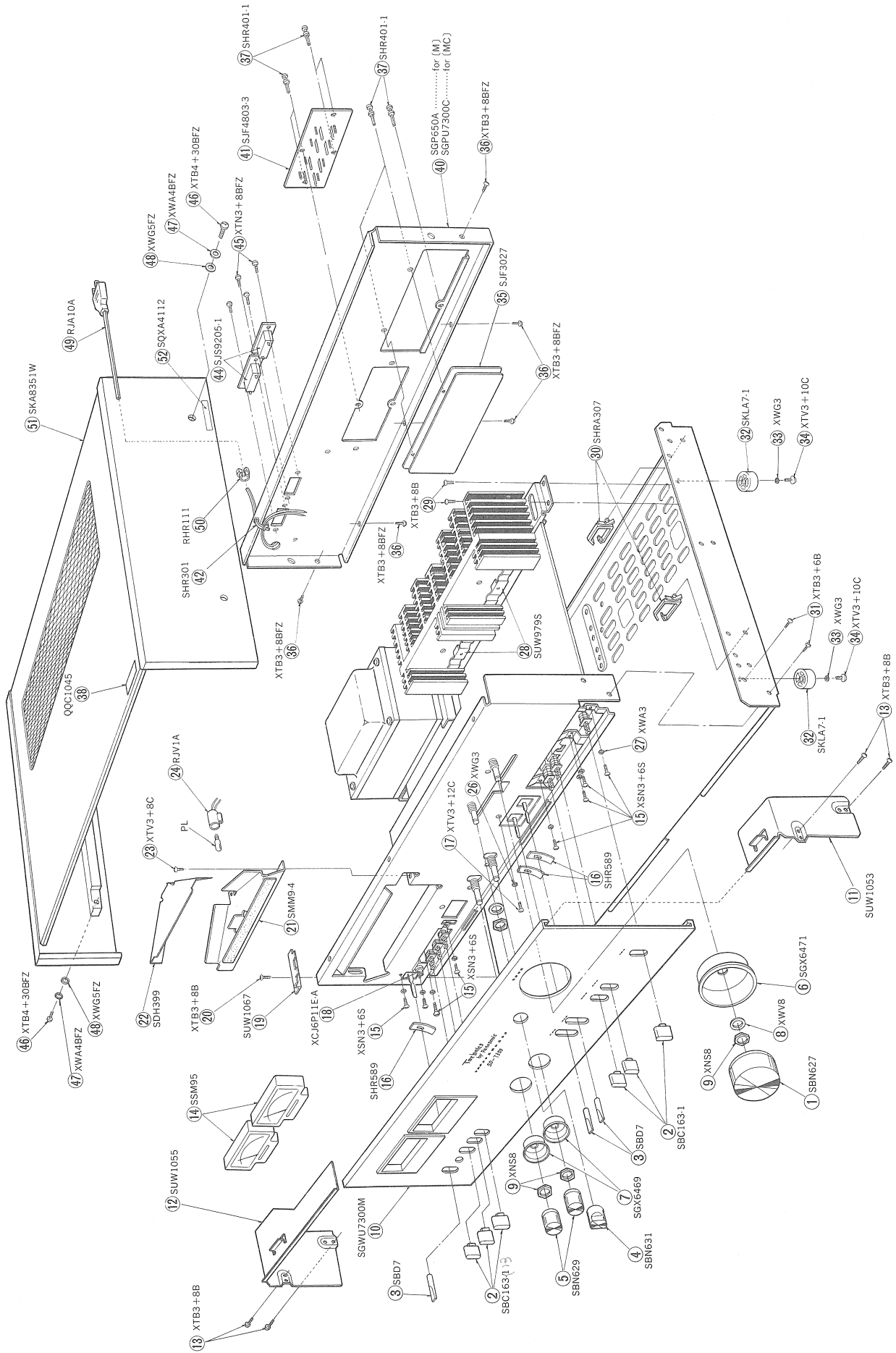
Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
IC101, 102	SV1TA7136PM	IC, Equalizer Amplifier	2	
TR201, 202	2SA798A-G2	Transistor, Differential Amplifier (Use in ranks F2 or G2)	2	
TR203, 204	2SA666A1-R	Transistor, Regulator (in ranks Q, R or S)	2	
TR205, 206, 301, 302	2SC1328-T	Transistor, Current Mirror & Switching (Use in ranks T, U or S)	4	
TR207, 208	2SC1885-R	Transistor, Pre Drive (in ranks Q, R or S)	2	
TR209, 210	2SC828A-R	Transistor, Thermal Compensator	2	
TR211, 212	2SC1567-Q	Transistor, Drive Amp.	2	
TR213, 214	2SA794-Q	Transistor, Drive Amp. (Use in ranks Q or R)	2	
TR211, 212	2SD381-K9	Transistor, Drive Amp. (Use in ranks Q or R)	2	
TR213, 214	2SB536-K9	Transistor, Drive Amp. (Use in ranks K9 or L9)	2	
TR215, 216	2SD588-Q	Transistor, Power Amp. (Use in ranks Q or R)	2	
TR217, 218	2SB618-Q	Transistor, Power Amp. (Use in ranks Q or R)	2	
D201, 202, 302, 303, 402, 403	MA150	Diode, Current Mirror & Switching	6	
D301	SVD10E1	Rectifier	1	
D304, 405	SVDMZ314	Zener Diode, 14V	2	
D351, 352	OA91	Diode, Meter Detector	2	
D401	SVDS4V810	Rectifier	1	
D404	SVDMZ422	Zener Diode, 22V	1	
L201, 202	SLQY15G-1U	Coil, Compensation	2	
T1 [IM]	SLT5Q47	Power Transformer	1	
T1 [MC]	SLT5Q69	Power Transformer	1	
R101	ERD25TJ104	Resistor, 100kΩ, 1/4W, ± 5%	1	
R102	ERD25TJ104	Resistor, 100kΩ, 1/4W, ± 5%	1	
R103	ERD25TJ331	Resistor, 330Ω, 1/4W, ± 5%	1	
R104	ERD25TJ331	Resistor, 330Ω, 1/4W, ± 5%	1	
R105	ERD25TJ104	Resistor, 100kΩ, 1/4W, ± 5%	1	
R106	ERD25TJ104	Resistor, 100kΩ, 1/4W, ± 5%	1	
R107	ERD25TJ103	Resistor, 10kΩ, 1/4W, ± 5%	1	
R108	ERD25TJ103	Resistor, 10kΩ, 1/4W, ± 5%	1	
R109	ERD25TJ331	Resistor, 330Ω, 1/4W, ± 5%	1	
R110	ERD25TJ331	Resistor, 330Ω, 1/4W, ± 5%	1	
R111	ERD25TJ331	Resistor, 330Ω, 1/4W, ± 5%	1	
R112	ERD25TJ331	Resistor, 330Ω, 1/4W, ± 5%	1	
R113	ERO25CKF1502	Metal Film, 15kΩ, 1/4W, ± 1%	1	
R114	ERO25CKF1502	Metal Film, 15kΩ, 1/4W, ± 1%	1	
R115	ERO25CKF2053	Metal Film, 205kΩ, 1/4W, ± 1%	1	
R116	ERO25CKF2053	Metal Film, 205kΩ, 1/4W, ± 1%	1	
R117	ERD25TJ122	Resistor, 1.2kΩ, 1/4W, ± 5%	1	
R118	ERD25TJ122	Resistor, 1.2kΩ, 1/4W, ± 5%	1	
R119	ERD25TJ224	Resistor, 220kΩ, 1/4W, ± 5%	1	
R120	ERD25TJ224	Resistor, 220kΩ, 1/4W, ± 5%	1	
R151	ERD25TJ472	Resistor, 4.7kΩ, 1/4W, ± 5%	1	
R152	ERD25TJ472	Resistor, 4.7kΩ, 1/4W, ± 5%	1	
R153	ERD25TJ183	Resistor, 18kΩ, 1/4W, ± 5%	1	
R154	ERD25TJ183	Resistor, 18kΩ, 1/4W, ± 5%	1	
R155	ERD25TJ824	Resistor, 820kΩ, 1/4W, ± 5%	1	
R156	ERD25TJ824	Resistor, 820kΩ, 1/4W, ± 5%	1	
R201	ERD25TJ222	Resistor, 2.2kΩ, 1/4W, ± 5%	1	
R202	ERD25TJ222	Resistor, 2.2kΩ, 1/4W, ± 5%	1	
R203	ERD25TJ683	Resistor, 68kΩ, 1/4W, ± 5%	1	
R204	ERD25TJ683	Resistor, 68kΩ, 1/4W, ± 5%	1	
R205	ERD25TJ332	Resistor, 3.3kΩ, 1/4W, ± 5%	1	
R206	ERD25TJ332	Resistor, 3.3kΩ, 1/4W, ± 5%	1	
R207	ERD25TJ683	Resistor, 68kΩ, 1/4W, ± 5%	1	
R208	ERD25TJ124	Resistor, 120kΩ, 1/4W, ± 5%	1	
R209	ERD25TJ273	Resistor, 27kΩ, 1/4W, ± 5%	1	
R210	ERD25TJ273	Resistor, 27kΩ, 1/4W, ± 5%	1	
R211	ERD25TJ820	Resistor, 82Ω, 1/4W, ± 5%	1	
R212	ERD25TJ820	Resistor, 82Ω, 1/4W, ± 5%	1	
R213	ERD25TJ151	Resistor, 150Ω, 1/4W, ± 5%	1	
R214	ERD25TJ151	Resistor, 150Ω, 1/4W, ± 5%	1	
R215	ERD25TJ393	Resistor, 39kΩ, 1/4W, ± 5%	1	
R216	ERD25TJ393	Resistor, 39kΩ, 1/4W, ± 5%	1	
R217	ERD25TJ223	Resistor, 22kΩ, 1/4W, ± 5%	1	
R218	ERD25TJ223	Resistor, 22kΩ, 1/4W, ± 5%	1	
R219	ERD25TJ330	Resistor, 33Ω, 1/4W, ± 5%	1	
R220	ERD25TJ330	Resistor, 33Ω, 1/4W, ± 5%	1	
R221	ERD14FJ101	Resistor, 100Ω, 1/4W, ± 5%	1	
R222	ERD14FJ101	Resistor, 100Ω, 1/4W, ± 5%	1	
R223	ERD50TJ332	Resistor, 3.3kΩ, 1/2W, ± 5%	1	
R224	ERD50TJ332	Resistor, 3.3kΩ, 1/2W, ± 5%	1	
R225	ERD60TJ332	Resistor, 3.3kΩ, 1/2W, ± 5%	1	
R226	ERD50TJ332	Resistor, 3.3kΩ, 1/2W, ± 5%	1	
R227	ERD25TJ272	Resistor, 2.7kΩ, 1/4W, ± 5%	1	
R228	ERD25TJ272	Resistor, 2.7kΩ, 1/4W, ± 5%	1	
R229	ERD25TJ121	Resistor, 120Ω, 1/4W, ± 5%	1	
R230	ERD25TJ121	Resistor, 120Ω, 1/4W, ± 5%	1	
R231	ERD25TJ151	Resistor, 150Ω, 1/4W, ± 5%	1	
R232	ERD25TJ151	Resistor, 150Ω, 1/4W, ± 5%	1	
R233	ERD14FJ102	Resistor, 1kΩ, 1/4W, ± 5%	1	
R234	ERD14FJ102	Resistor, 1kΩ, 1/4W, ± 5%	1	
R235	ERD14FJ151	Resistor, 150Ω, 1/4W, ± 5%	1	
R236	ERD14FJ151	Resistor, 150Ω, 1/4W, ± 5%	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R237	ERX2ANJR33	0.33Ω, 2W, ± 5%	1	
R238	ERX2ANJR33	0.33Ω, 2W, ± 5%	1	
R239	ERX2ANJR33	0.33Ω, 2W, ± 5%	1	
R240	ERX2ANJR33	0.33Ω, 2W, ± 5%	1	
R241	ERX1ANJ4R7	4.7Ω, 1W, ± 5%	1	
R242	ERX1ANJ4R7	4.7Ω, 1W, ± 5%	1	
R243	ERX1ANJ3S1	330Ω, 1W, ± 5%	1	
R244	ERX1ANJ3S1	330Ω, 1W, ± 5%	1	
R245	ERD25TJ181	180Ω, 1/4W, ± 5%	1	
R246	ERD25TJ181	180Ω, 1/4W, ± 5%	1	
R247	ERD14FJ4R7	4.7Ω, 1/4W, ± 5%	1	
R248	ERD14FJ4R7	4.7Ω, 1/4W, ± 5%	1	
R249	ERD14FJ2R2	2.2Ω, 1/4W, ± 5%	1	
R251	ERD25TJ392	3.9kΩ, 1/4W, ± 5%	1	
R252	ERD25TJ392	3.9kΩ, 1/4W, ± 5%	1	
R253	ERD14FJ471	470Ω, 1/4W, ± 5%	1	
R254	ERD14FJ471	470Ω, 1/4W, ± 5%	1	
R255	ERD25TJ183	18kΩ, 1/4W, ± 5%	1	
R256	ERD25TJ183	18kΩ, 1/4W, ± 5%	1	
R257	ERD25TJ153	15kΩ, 1/4W, ± 5%	1	
R258	ERD25TJ153	15kΩ, 1/4W, ± 5%	1	
R259	ERD25TJ152	1.5kΩ, 1/4W, ± 5%	1	
R260	ERD25TJ152	1.5kΩ, 1/4W, ± 5%	1	
R261	ERD25TJ682	6.8kΩ, 1/4W, ± 5%	1	
R262	ERD25TJ682	6.8kΩ, 1/4W, ± 5%	1	
R263	ERD25TJ822	8.2kΩ, 1/4W, ± 5%	1	
R264	ERD25TJ822	8.2kΩ, 1/4W, ± 5%	1	
R265	ERD25TJ103	10kΩ, 1/4W, ± 5%	1	
R266	ERD25TJ103	10kΩ, 1/4W, ± 5%	1	
R267	ERD25TJ681	680Ω, 1/4W, ± 5%	1	
R268	ERD25TJ681	680Ω, 1/4W, ± 5%	1	
R301	ERG2ANJ152	1.5kΩ, 2W, ± 5%	1	
R302	ERD25TJ124	120kΩ, 1/4W, ± 5%	1	
R303	ERD25TJ683	68kΩ, 1/4W, ± 5%	1	
R304	ERD25TJ224	220kΩ, 1/4W, ± 5%	1	
R305	ERD14FJ101	100Ω, 1/4W, ± 5%	1	
R306	ERD25TJ683	68kΩ, 1/4W, ± 5%	1	
R307	ERD25TJ471	470Ω, 1/4W, ± 5%	1	
R308	ERD25TJ103	10kΩ, 1/4W, ± 5%	1	
R309	ERD50TJ222	2.2kΩ, 1/2W, ± 5%	1	
R351	ERD12FJ631	330Ω, 1/2W, ± 5%	1	
R352	ERD12FJ631	330Ω, 1/2W, ± 5%	1	
R353	ERD25TJ123	12kΩ, 1/4W, ± 5%	1	
R354	ERD25TJ123	12kΩ, 1/4W, ± 5%	1	
R355	ERD25TJ121	120Ω, 1/4W, ± 5%	1	
R356	ERD25TJ121	120Ω, 1/4W, ± 5%	1	
R357	ERD25TJ122	1.2kΩ, 1/4W, ± 5%	1	
R358	ERD25TJ122	1.2kΩ, 1/4W, ± 5%	1	
R402	ERX1ANJ222	2.2kΩ, 1W, ± 5%	1	
R403	ERD12FJ471	470Ω, 1/2W, ± 5%	1	
R404	ERG2ANJ561	560Ω, 2W, ± 5%	1	
<b>VARIABLE RESISTORS</b>				
VR151	EWFGMA024BF5	Volume Control, 250kΩ (B)	1	
VR152	EVHGMASF25C25	Balance Control, 200kΩ (G)	1	
VR251, 252	EWGYA033C15	Bass & Treble Control, 100kΩ (C)	2	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
<b>CAPACITORS</b>				
C1 [M]	ECQU1A103MD	0.01μF, 125V, ±20%	1	
C1 [MC]	ECQU1A103MC	0.01μF, 125V, ±20%	1	
C2	ECEA50V1	Electrolytic, 1μF, 50V	1	
C101	ECEA50M3R3R	Electrolytic, 3.3μF, 50V	1	
C102	ECEA50M3R3R	Electrolytic, 3.3μF, 50V	1	
C103	ECCD2H121KB	Ceramic, 120pF, 500V, ±10%	1	
C104	ECCD2H121KB	Ceramic, 120pF, 500V, ±10%	1	
C109	ECKD2H681KB	Ceramic, 680pF, 500V, ±10%	1	
C110	ECKD2H681KB	Ceramic, 680pF, 500V, ±10%	1	
C111	ECCD1H101K	Ceramic, 100pF, 50V, ±10%	1	
C112	ECCD1H101K	Ceramic, 100pF, 50V, ±10%	1	
C113	ECEA10V33	Electrolytic, 33μF, 10V	1	
C114	ECEA10V33	Electrolytic, 33μF, 10V	1	
C115	ECKD2H391KB	Ceramic, 390pF, 500V, ±10%	1	
C116	ECKD2H391KB	Ceramic, 390pF, 500V, ±10%	1	
C117	ECQM1H472JZ	Polyester, 0.0047μF, 50V, ±5%	1	
C118	ECQM1H472JZ	Polyester, 0.0047μF, 50V, ±5%	1	
C119	ECQM1H183JZ	Polyester, 0.018μF, 50V, ±5%	1	
C120	ECQM1H183JZ	Polyester, 0.018μF, 50V, ±5%	1	
C121	ECEA50M1R	Electrolytic, 1μF, 50V	1	
C122	ECEA50M1R	Electrolytic, 1μF, 50V	1	
C151	ECCD1H820K	Ceramic, 82pF, 50V, ±10%	1	
C152	ECCD1H820K	Ceramic, 82pF, 50V, ±10%	1	
C153	ECQM1H153KZ	Polyester, 0.015μF, 50V, ±10%	1	
C154	ECQM1H153KZ	Polyester, 0.015μF, 50V, ±10%	1	
C155	ECQM1H392KZ	Polyester, 0.0039μF, 50V, ±10%	1	
C156	ECQM1H392KZ	Polyester, 0.0039μF, 50V, ±10%	1	
C201	ECEA50M1R	Electrolytic, 1μF, 50V	1	
C202	ECEA50M1R	Electrolytic, 1μF, 50V	1	
C203	ECCD1H330K	Ceramic, 33pF, 50V, ±10%	1	
C204	ECCD1H330K	Ceramic, 33pF, 50V, ±10%	1	
C205	ECCD1H390K	Ceramic, 39pF, 50V, ±10%	1	
C206	ECCD1H390K	Ceramic, 39pF, 50V, ±10%	1	
C207	ECCD1H010C	Ceramic, 1pF, 50V, ±0.25pF	1	
C208	ECCD1H010C	Ceramic, 1pF, 50V, ±0.25pF	1	
C209	ECEA6V33	Electrolytic, 33μF, 6.3V	1	
C210	ECEA6V33	Electrolytic, 33μF, 6.3V	1	
C211	ECEA35V47V	Electrolytic, 47μF, 35V	1	
C212	ECEA35V47V	Electrolytic, 47μF, 35V	1	
C213	ECEA50V47V	Electrolytic, 47μF, 50V	1	
C214	ECEA50V47V	Electrolytic, 47μF, 50V	1	
C215	ECKD1H102PE	Ceramic, 0.001μF, 50V, +100%, -0	1	
C216	ECKD1H102PE	Ceramic, 0.001μF, 50V, +100%, -0	1	
C217	ECCD1H101K	Ceramic, 100pF, 50V, ±10%	1	
C218	ECCD1H101K	Ceramic, 100pF, 50V, ±10%	1	
C219	ECKD2H21KB	Ceramic, 220pF, 500V, ±10%	1	
C220	ECKD2H21KB	Ceramic, 220pF, 500V, ±10%	1	
C221	ECQM1H683KZ	Polyester, 0.068μF, 50V, ±10%	1	
C222	ECQM1H683KZ	Polyester, 0.068μF, 50V, ±10%	1	
C223	ECCD1H102PE	Ceramic, 0.001μF, 50V, +100%, -0	1	
C224	ECCD1H102PE	Ceramic, 0.001μF, 50V, +100%, -0	1	
C251	ECQM1H153KZ	Polyester, 0.015μF, 50V, ±10%	1	
C252	ECQM1H153KZ	Polyester, 0.015μF, 50V, ±10%	1	



■ EXPLODED VIEWS



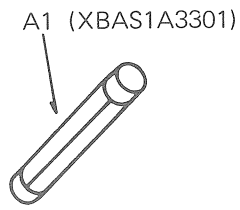


Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C253	ECQM1H154KZ	Polyester, 0.15µF, 50V, ±10%	1	
C254	ECQM1H154KZ	Polyester, 0.15µF, 50V, ±10%	1	
C255	ECQM1H182KZ	Polyester, 0.0018µF, 50V, ±10%	1	
C256	ECQM1H182KZ	Polyester, 0.0018µF, 50V, ±10%	1	
C257	ECQM1H273KZ	Polyester, 0.027µF, 50V, ±10%	1	
C258	ECQM1H273KZ	Polyester, 0.027µF, 50V, ±10%	1	
C259	ECCDIH470K	Ceramic, 47pF, 50V, ±10%	1	
C260	ECCDIH470K	Ceramic, 47pF, 50V, ±10%	1	
C261	ECEA6V47	Electrolytic, 47µF, 6.3V	1	
C262	ECEA6V47	Electrolytic, 47µF, 6.3V	1	
C301	ECEA63V33V	Electrolytic, 33µF, 63V	1	
C302	ECEA25V33V	Electrolytic, 33µF, 25V	1	
C303	ECEA35V47V	Electrolytic, 47µF, 35V	1	
C304	ECEA35V10	Electrolytic, 10µF, 35V	1	
C351	ECEA50V10V	Electrolytic, 10µF, 50V	1	
C352	ECEA50V10V	Electrolytic, 10µF, 50V	1	
C353	ECEA50V10V	Electrolytic, 10µF, 50V	1	
C354	ECEA50V10V	Electrolytic, 10µF, 50V	1	
C401	EGET42R822S	Electrolytic, 8200µF, 42V	1	
C402	EGET42R822S	Electrolytic, 8200µF, 42V	1	
C403	ECEA25V220V	Electrolytic, 220µF, 25V	1	
C404	ECEA16V1000V	Electrolytic, 1000µF, 16V	1	
F1	XBA1F30NU100	Fuse, 3A(125V), Power Source	1	
F2	XBA2F05NU100	Fuse, 500mA(250V), Power Source	1	
F3, 4	XBAS1A3301	Fuse, 3.3A(125V), Speaker Circuit Protection	2	
M401	RXAF103P22HD	Component Combination, 0.01µF (X2)	1	
PL1	XAMR53K	Meter Lamp (6.3V 0.25A)	1	
S1, 2	SSH235S	Switch, Input Selector	1	
S3, 4	SSL23	Switch, Recording Mode & Tape Monitor	1	
S5	SSH67S	Switch, Loudness	1	
S6, 7, 8	SSH329S	Switch, Filter, Meter & Speaker	1	
S9	SSL36S	Switch, Power Source	1	
1	SBN627	Knob, Volume Control	1	
2	SBC163-11-3	Burton, Push Switches	6	
3	SBD7	Knob, Lever Switches	3	
4	SBN631	Knob, Balance Control	1	
5	SBN629	Knob, Bass & Treble	2	
6	SGX6471	Ornament, Volume Knob	1	
7	SGX6469	Ornament, Bass & Treble Knobs	2	
8	XNW8	Washer (Spring), Balance & Volume	2	
9	XNS8	Nut, Bass, Treble, Balance & Volume	4	
10	SGWU7300M	Panel, Front Ass'y	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
11	SUW1053	Bracket, Front Panel	1	* O
12	SUW1055	Bracket, Front Panel	1	* O
13	XTB3+8B	Screw, Front Panel Bracket M'tg	4	
14	SSM95	Meter, Output Level	2	
15	XSN3+6S	Screw, Push Switches & Power Switch M'tg	8	
16	SHR589	Bracket, Power, Tape & Rec Mode Switch	3	
17	XTV3+12C	Screw, Tape & Rec Mode Switch M'tg	1	
18	XCI6P11E-A	Jack, Headphones	1	
19	SUW1067	Bracket, Printed Circuit Board	1	* O
20	XTB3+8B	Screw, Printed Circuit Board M'tg	1	
21	SMW9-4	Bracket, Meter	1	* O
22	SDH399	Reflector Plate	1	* O
23	XTV3+8C	Screw, Meter Bracket M'tg	1	
24	RJV1A	Holder, Meter Lamp	1	
26	XWG3	Washer, Tape & Rec Mode Switch M'tg Screw	1	
27	XWA3	Washer (Spring), Push Switch M'tg Screw	8	
28	SUW979S	Bracket, Power Transistor	2	*
29	XTB3+8B	Screw, Printed Circuit Board M'tg	2	
30	SHRA307	Lead Clamp	2	
31	XTB3+6B	Screw, Chassis M'tg (Left & Right Side)	4	
32	SKLA7-1	Foot, Set Bottom Board	4	
33	XWG3	Washer, Foot M'tg Screw	4	
34	XTV3+10C	Screw, Foot M'tg	4	
35	SJF3027	Terminal, Input	1	
36	XTB3+8BFZ	Screw, Rear Panel M'tg	5	
37	SHR401-1	Latch, Input & Speaker Terminal M'tg	7	
38	QQC1045	Caution Label, Cabinet	1	
40 [M]	SGP650A	Rear Panel	1	
40 [MC]	SGPU7300C	Rear Panel, SGP650A with Name Plate (SGT13652)	1	
41	SJF4803-3	Terminal, Speakers	1	
42	SHR301	Clamp, AC Cord	1	
44	SJIS9205-1	Socket, AC Power	2	
45	XTN3+8BFZ	Screw, AC Outlet M'tg	4	
46	XTB4+30BFZ	Screw, Cabinet M'tg	4	
47	XWA4BFZ	Washer (Spring), Cabinet M'tg Screw	4	
48	XWG5FZ	Washer, Cabinet M'tg Screw	4	
49	RJA10A	AC Cord	1	
50	RHR111	Bushing, AC Cord	1	
51	SKA8351W	Cabinet, Simulated Wood	1	
52	SQA4112	Caution Label, Cabinet Screw	1	
A1	XBASIA3301	Fuse, 3.3A(125V), Speaker Circuit Protection	2	
P1	SPP511	Polyethylene Bag	1	
P2	SPS979	Pad, Right Upper Side	1	
P3	SPS977	Pad, Right Lower Side	1	
P4	SPS975	Pad, Left Upper Side	1	
P5	SPS973	Pad, Left Lower Side	1	
P6 [M]	SPG991	Carton Box	1	
P6 [MC]	SPG993	Carton Box	1	
P7 [M]	SQF1501	Printed Matter, (Instructions Book)	1	
P7 [MC]	SQF1503	Printed Matter, (Instructions Book)	1	

The model [M] is available in America only.  
The model [MC] is available in Canada only.

## ■ ACCESSORY



## ■ PACKINGS

