KENWOOD
HI/FI STEREO COMPONENTS

SERVICE MANUAL

KA-5500

STEREO INTEGRATED AMPLIFIER

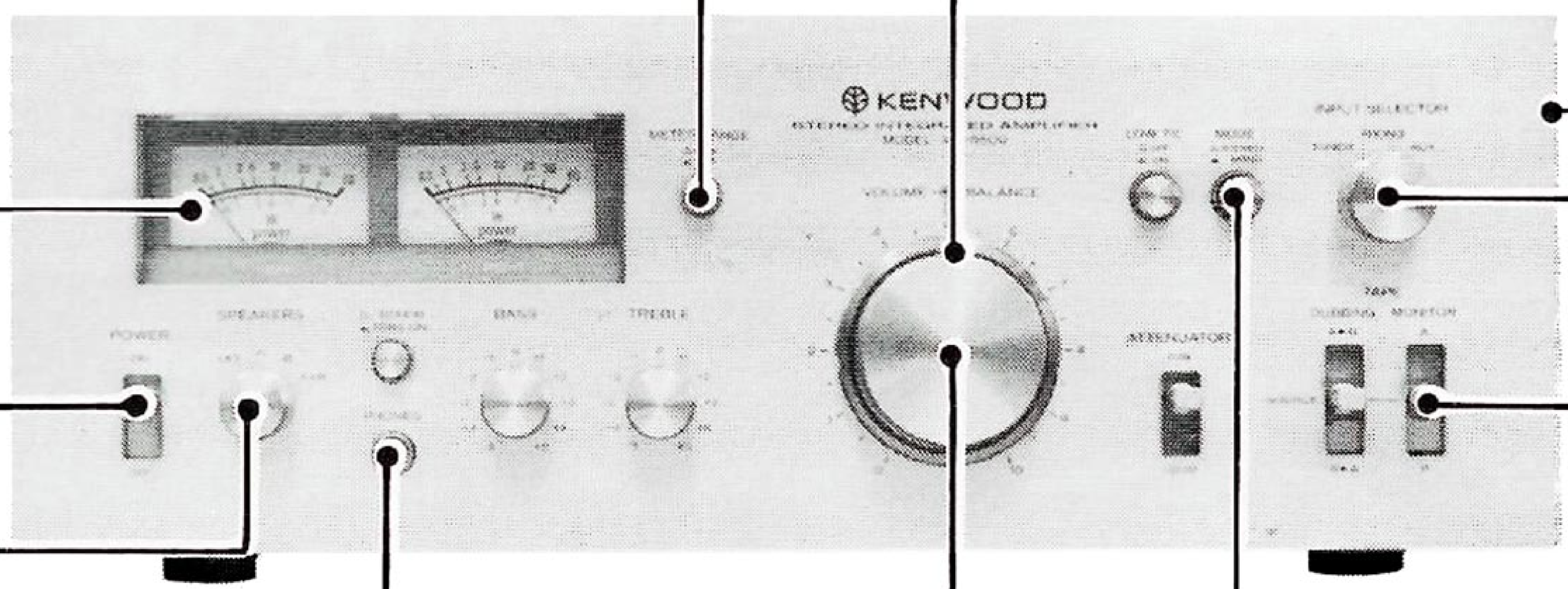
CONTENTS

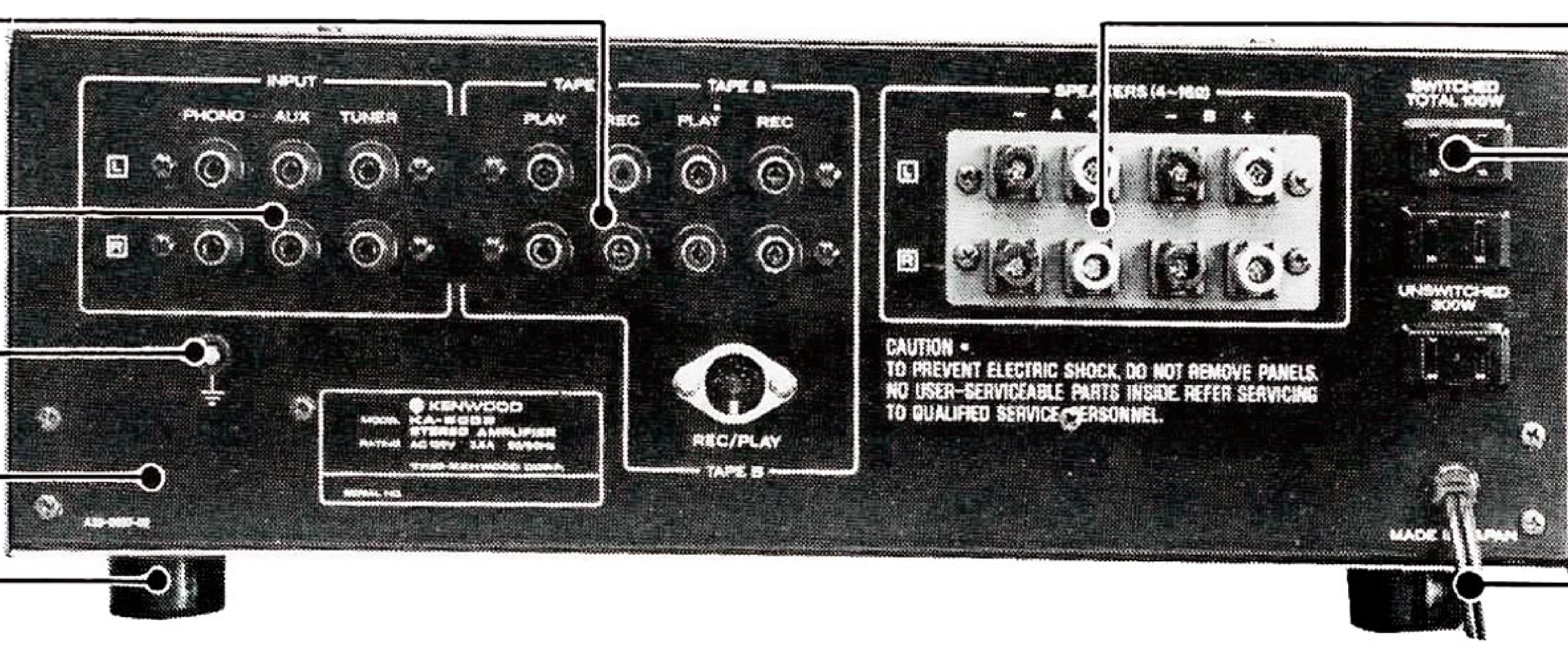
Note 1:
The products are subject to modification in components and circuits in different countries and regions. This manual provides information of modification based on the standard in the U.S. for the convenience of ordering associated components and parts.
We employ the following abbreviations of respective countries.

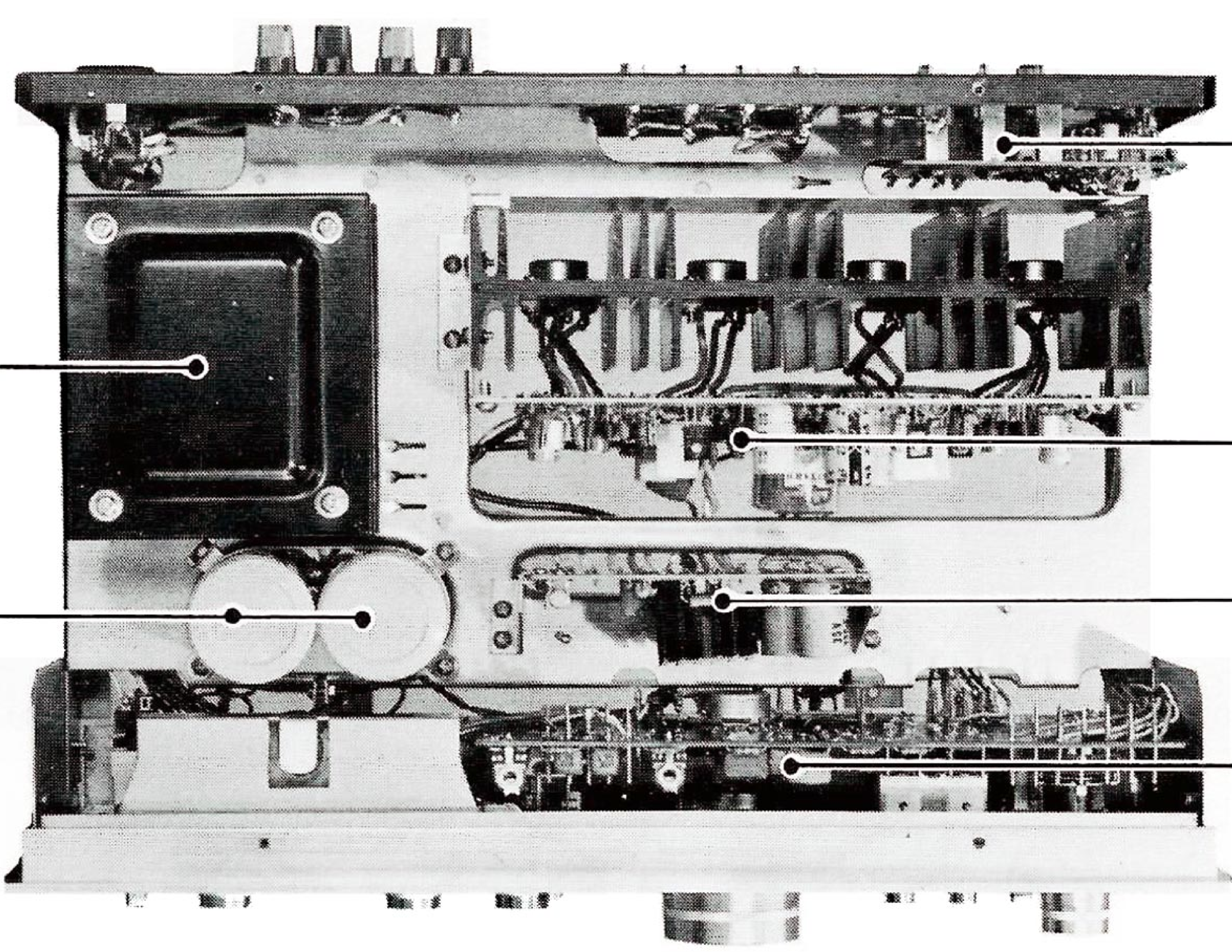
U.S.A.	K
Canada	P
PX	U
Australia	X
Europe	W
England	T
Scandinavia	L
South Africa	S
Other areas	M

Note 2:
Symbol ☆ and symbol ● in parts list mean the new parts and the parts not being kept in stock, respectively.

EXTERNAL & INTERNAL VIEW

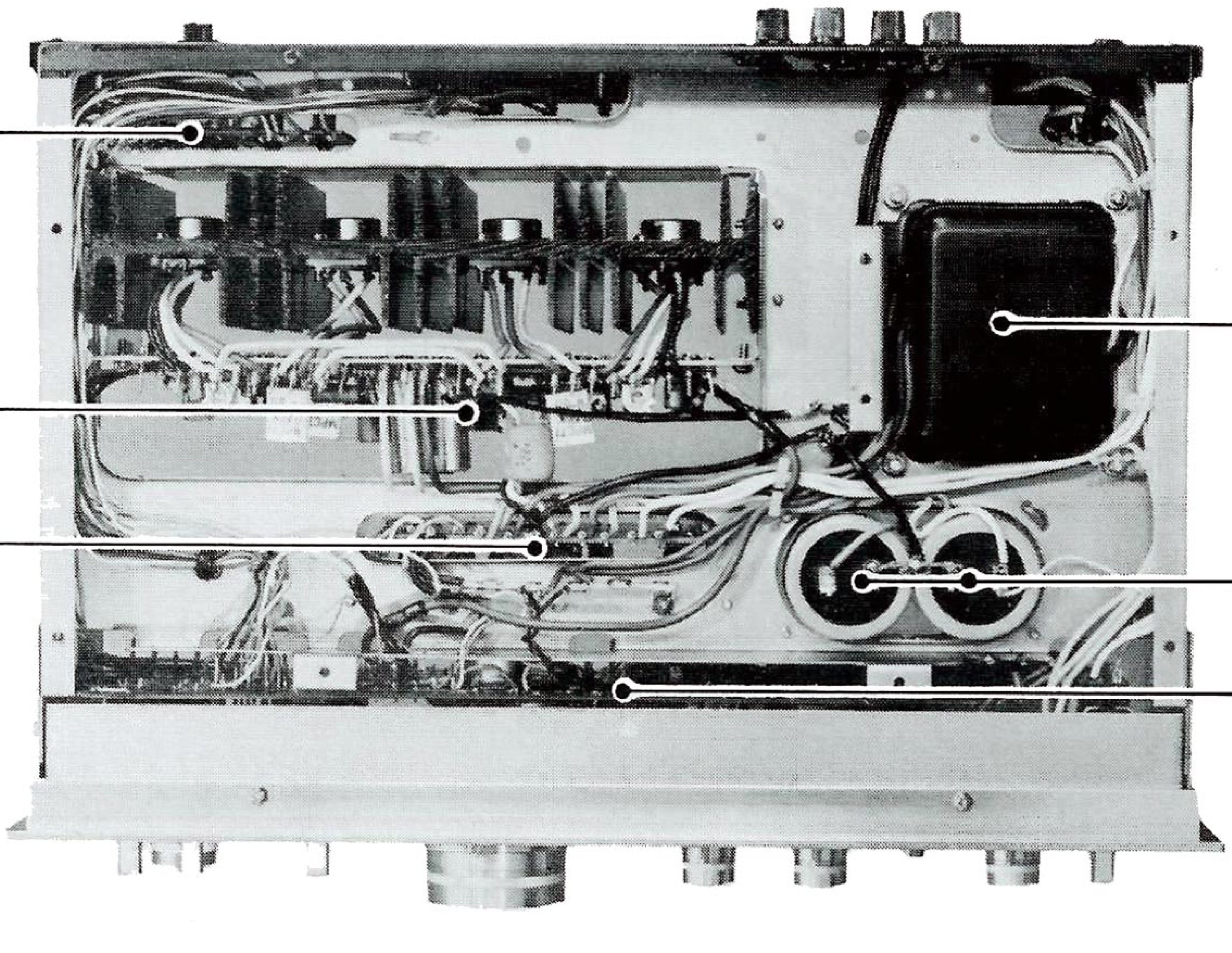




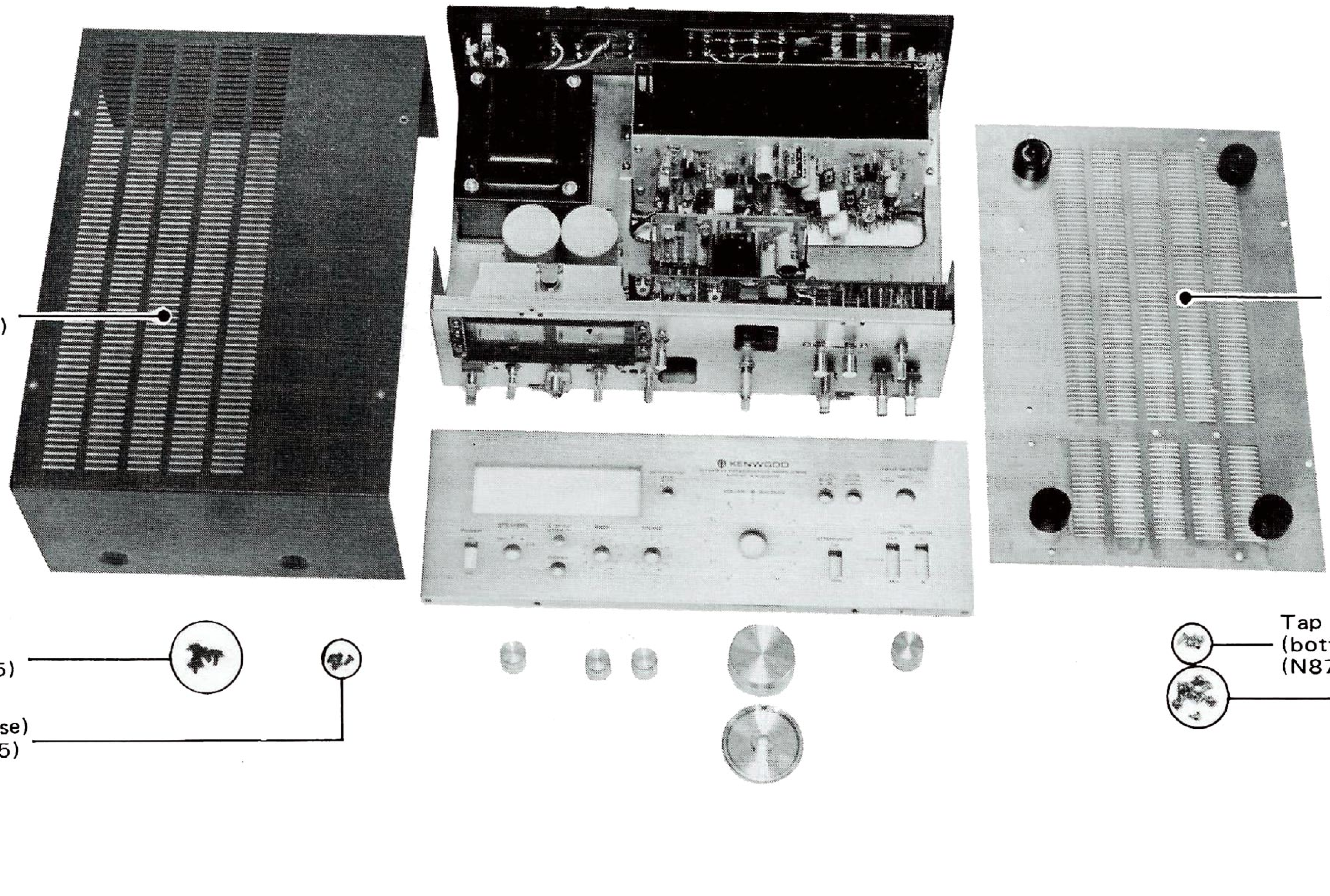


* Refer to
Destinations' parts list.

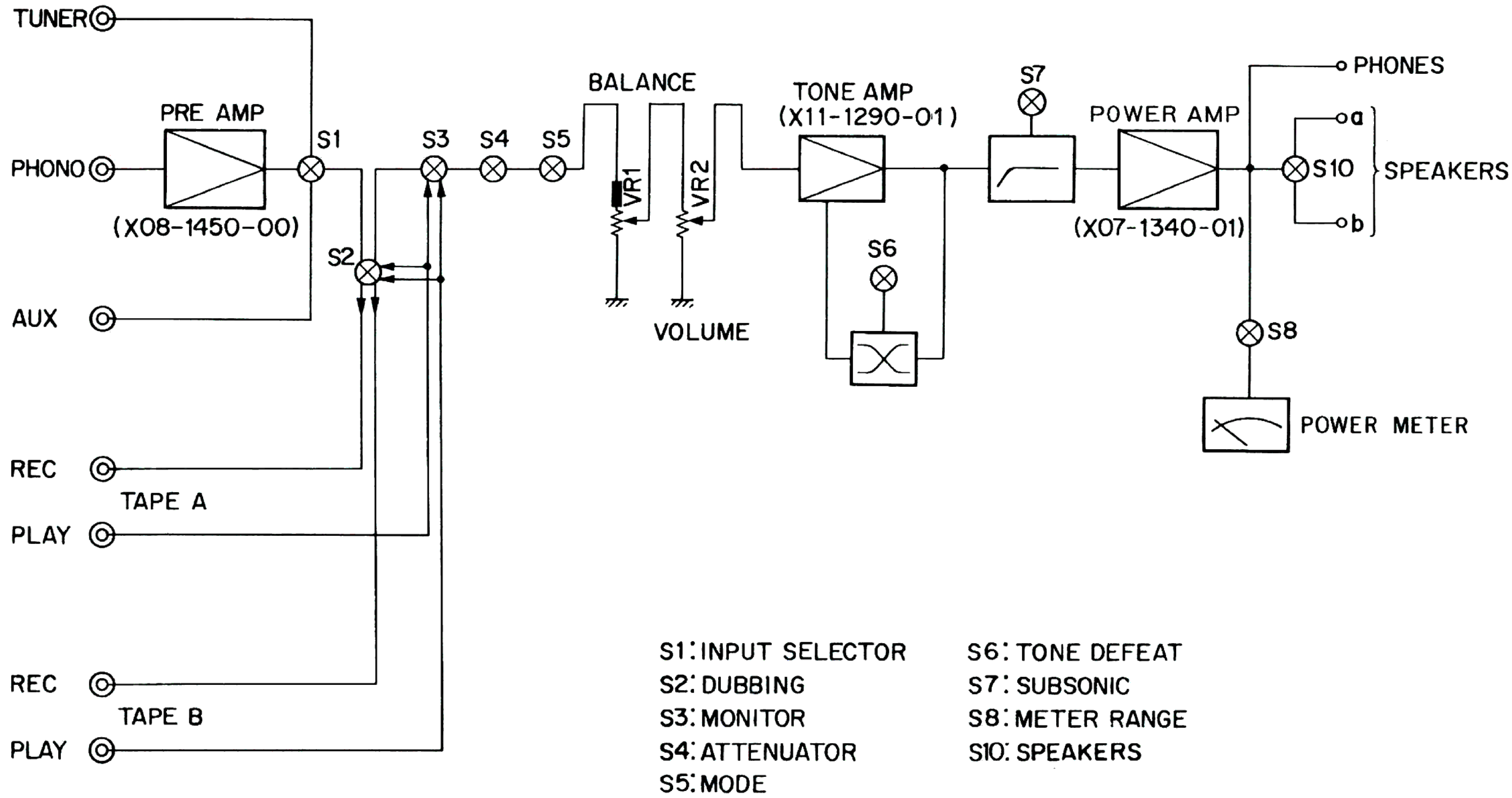
INTERNAL VIEW/DISASSEMBLY



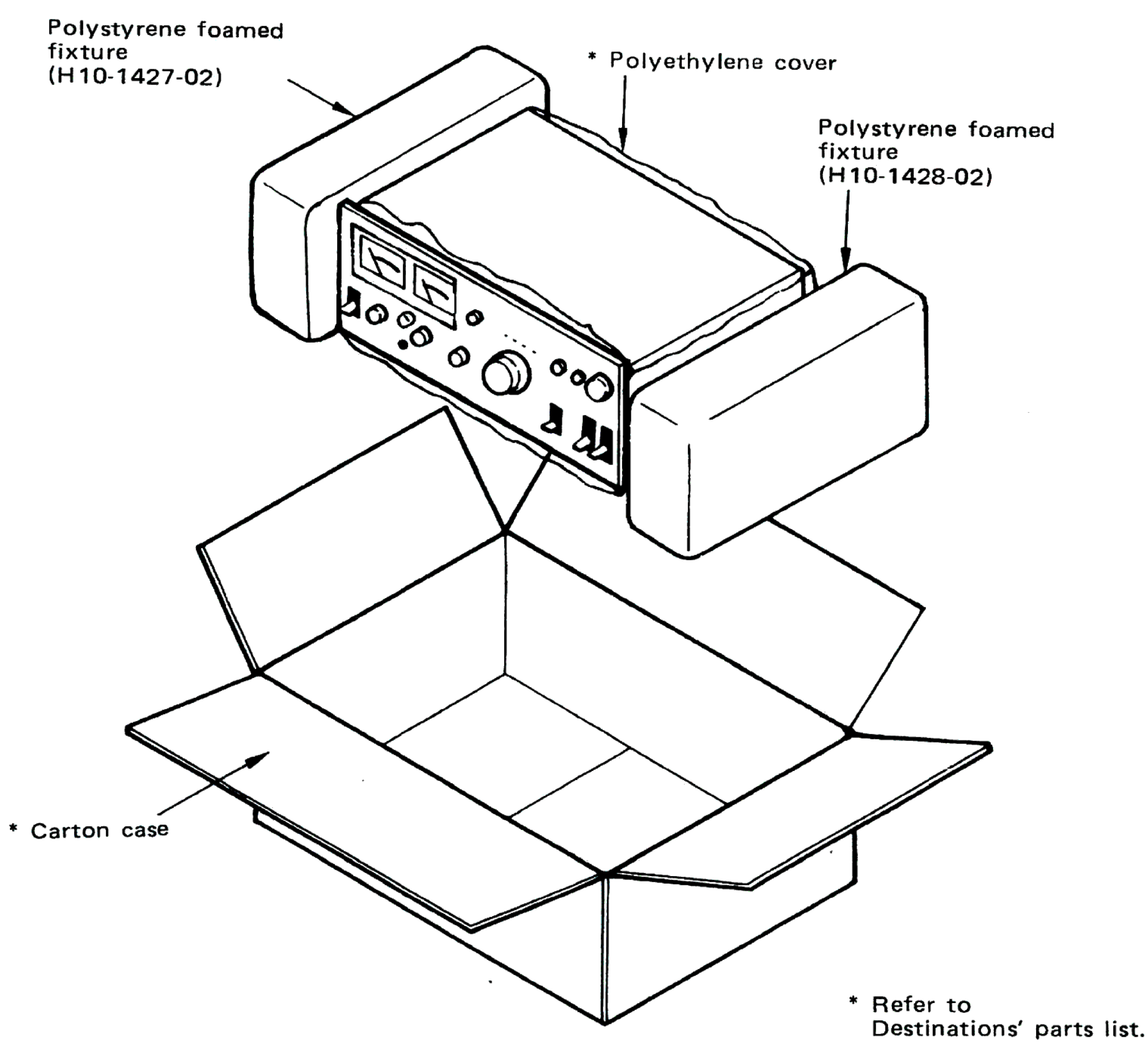
* Refer to
Destinaitons' parts list.



BLOCK DIAGRAM/PACKING



S1: INPUT SELECTOR
S2: DUBBING
S3: MONITOR
S4: ATTENUATOR
S5: MODE
S6: TONE DEFEAT
S7: SUBSONIC
S8: METER RANGE
S10: SPEAKERS



* Refer to
Destinations' parts list.

PREAMP SECTION

The preamp circuit is composed of a differential amp and a class A amp. The one employs a low noise FET and the other does a PNP transistor. The input signal is direct coupled to the gate of the differential amp. The total gain of this circuit is 36 dB (63 times at 1 kHz). The circuit operates with a dual-24 volts which assures the wide dynamic range and a low distortion.

POWER AMP

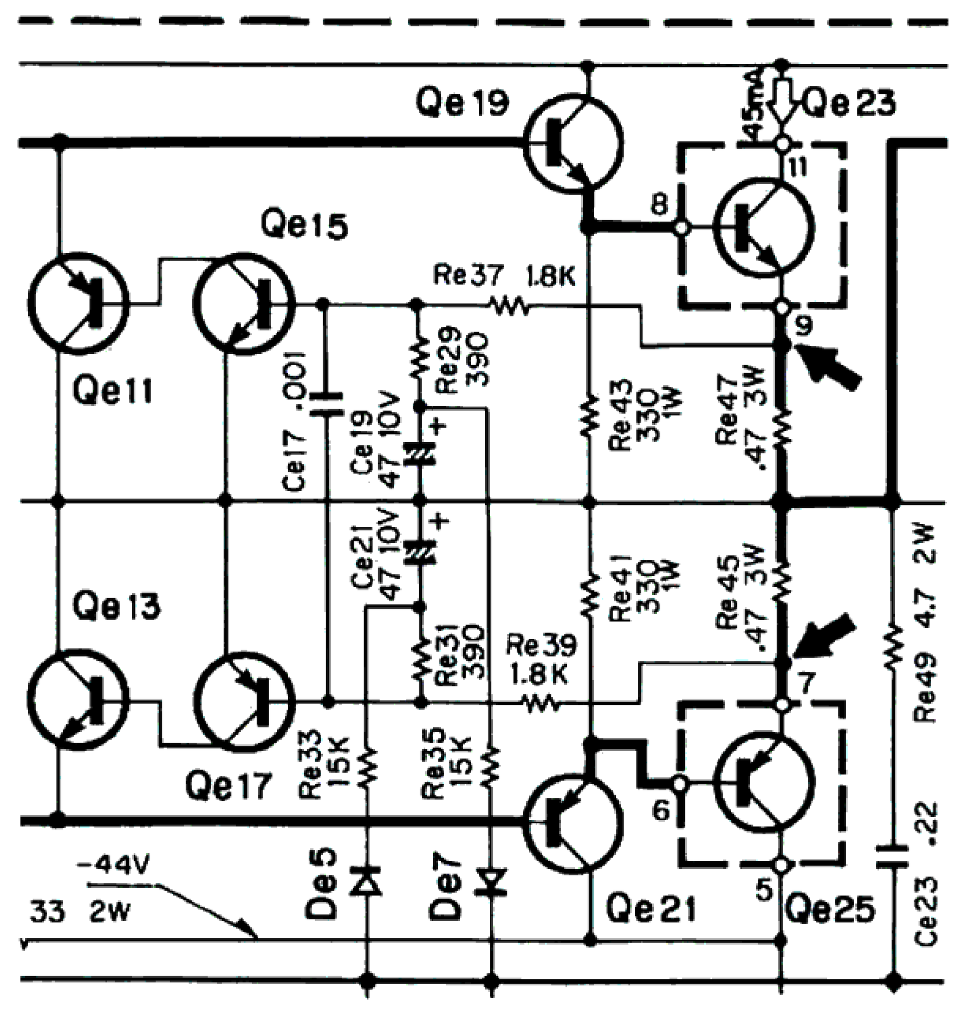
Power amp consists of a differential amp, driver amp, bias circuit, constant current circuit, ASO protection circuit, and complementary emitter follower output amp. The first stage, Qe1 and 3 are a differential amp and the subsequent stage, Qe5 is a class A amp. Qe7 acts as a constant current circuit and gives the constant current to Qe9. ASO protection circuit, Qe11, 13, 15 and 17, which protects a power transistor for excessive current. Qe19 and 21 are for complementary transistor and Qe23 and 25 are power transistor.
DC protection, Qe27, 28 functions when the protection circuit senses the DC voltage at output terminal.

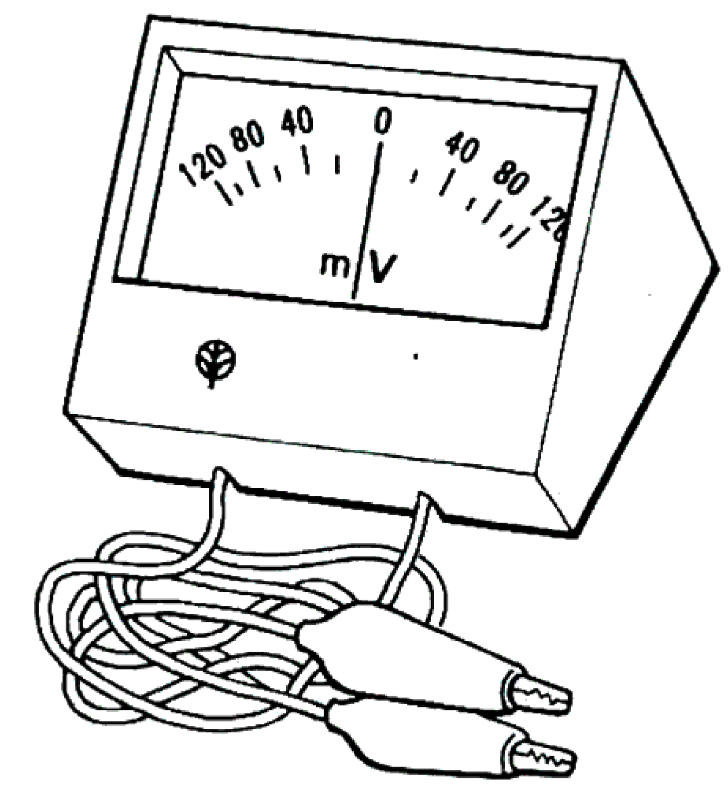
TONE AMP

Control unit has mainly two functions. The one is tone amp, which employs a integrated circuit and feedback network. The other is a low filter, which employs a NPN emitter follower, is a 12 dB/oct with a cutoff frequency at 40 Hz.

BIAS ADJUSTMENT

Before adjustment, check that power amp has no signal. And then connect the bias current meter (B31-0125-05) across the emitter resistor 0.47Ω of power transistor. Turn the PC trimmer potentiometer 1kΩ until the meter indicates 45 mV.



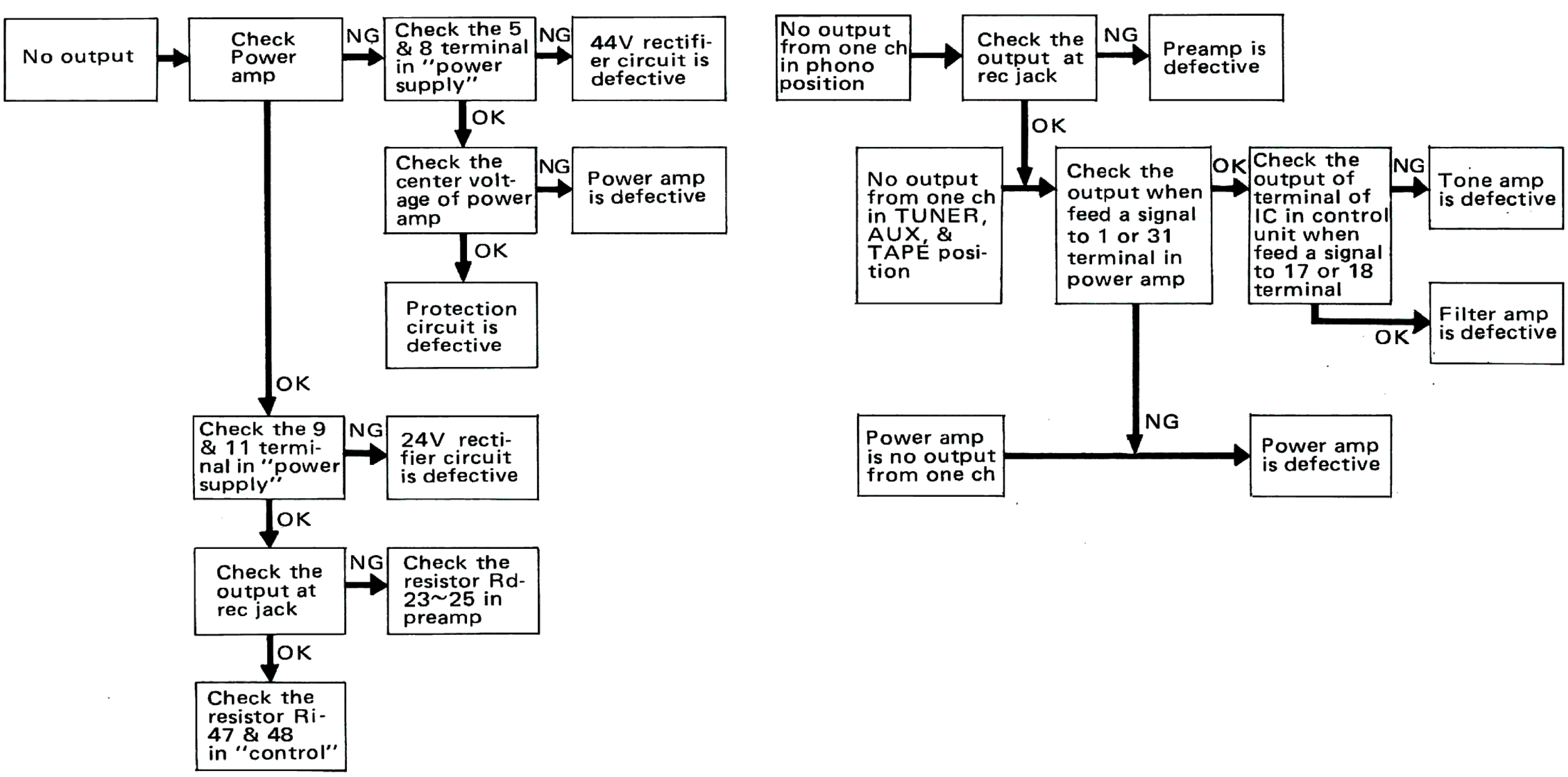


BIAS current meter
(B31-0125-05)

METER RANGE ADJUSTMENT

Push the meter range pushbutton switch to 60W position. Connect the dummy load to the otuput terminal instead of the loudspeaker. Also connect the audio generator to AUX jack of the amplifier. Then turn VOLUME until the output power is 60W (22V/8Ω). Turn the PC trimmer potentiometer VRi3, 4 until the meter indicates 60W.

TROUBLESHOOTING



DESTINATIONS' PARTS LIST

☆ : New parts, ● : The parts not being kept in stock.

Ref. No.	U.S.A. (K)	Canada (P)	PX (U)	Australia (X)	Europe (W)	Scandinavia (L)	England (T)	South Africa (S)	Other Area (M)	Description
–	A20-1021-02	A20-1021-02	–	A20-1021-02	A20-1021-02	A20-1021-02	A20-1022-02	A20-1021-02	A20-1021-02	Panel ass'y ☆
–	A20-1023-02	A20-1023-02	–	A20-1023-02	A20-1023-02	A20-1023-02	A20-1024-02	A20-1023-02	A20-1023-02	Panel ● ☆
–	A23-0637-02	A23-0637-02	–	A23-0639-02	A23-0641-02	A23-0642-02	A23-0640-02	A23-0639-02	A23-0639-02	Rear panel ● ☆
–	–	–	–	–	B42-0024-04	–	–	–	–	SEV sticker ●
–	B42-0571-04	–	–	–	–	–	–	–	–	Caution sticker x 2 ●
–	B46-0056-00	B46-0055-10	–	–	–	–	–	–	–	Warranty card
–	B50-1465-00	B50-1465-00	–	B50-1465-00	B50-1465-00	B50-1465-00	B50-1466-00	B50-1465-00	B50-1465-00	Instruction manual ☆
–	B58-0043-00	B58-0043-00	–	–	–	–	–	–	–	Carton case caution card
–	–	–	–	B58-0003-00	B58-0156-00	–	–	B58-0003-00	B58-0003-00	Power supply caution card ●
–	–	–	–	–	–	–	B58-0214-04	–	–	Power cord caution card ●
–	–	–	–	B58-0101-00	B58-0157-00	–	–	B58-0101-00	B58-0101-00	Power voltage selector caution card ●
–	–	–	–	B58-0108-00	B58-0108-00	–	–	B58-0108-00	B58-0108-00	Spare fuse caution card ●
C2,3	C91-0001-05	C91-0001-05	–	CK45E3D-103PMU	CK45E3D-103PMUx3	CK45E3D-103PMUx3	CK45E3D-103PMUx3	CK45E3D-103PMU	CK45E3D-103PMU	Capacitor 0.01μF
–	–	–	–	D32-0075-04	D32-0075-04	–	–	D32-0075-04	D32-0075-04	Switch stopper (power voltage)
–	E08-0225-05	E08-0225-05	–	E08-0225-05	E08-0225-05	–	E08-0225-05	E08-0225-05	E08-0225-05	AC outlet x 3
–	E30-0181-05	E30-0181-05	–	E30-0185-05	E30-0580-05	E30-0292-05	040-0304-05	040-0304-05	E30-0515-05	Power cord
–	–	–	–	F05-5022-05	F05-5025-05	–	–	F05-5022-05	F05-5022-05	Spare fuse (5A)
–	–	–	–	–	F09-0033-05	F09-0033-05	F09-0033-05	–	–	Capacitor cover x 3
–	H01-1521-04	H01-1522-04	–	H01-1521-04	H01-1521-04	H01-1521-04	H01-1523-04	H01-1521-04	H01-1521-04	Carton case ☆
–	–	H03-0505-04	–	–	–	–	–	–	–	Carton case ☆
–	H20-0377-04	H20-0377-04	–	H20-0377-04	H20-0377-04	H20-0377-04	H20-0377-04	H20-0377-04	H20-0417-04	Polyethylene cover
–	–	–	–	H25-0029-04	H25-0029-04	–	–	H25-0029-04	H25-0029-04	Polyethylene bag
–	–	–	–	–	–	–	–	–	H40-0004-04	Anti-rust paper
–	J02-0073-04	J02-0049-14	–	J02-0049-14	J02-0049-14	J02-0049-14	J02-0049-14	J02-0049-14	J02-0049-14	Leg x 4
–	J41-0034-05	J41-0034-05	–	J41-0024-15	J41-0033-05	J41-0033-05	J41-0024-15	J41-0024-15	J41-0033-05	AC cord bushing
–	L01-1031-05	L01-1031-05	–	L01-1035-05	L01-1036-05	L01-1032-05	L01-1037-05	L01-1035-05	L01-1035-05	Power transformer
S9	S33-2003-05	S33-2003-05	–	S33-2004-05	S33-2005-05	S33-2005-05	S33-2005-05	S33-2004-05	S33-2004-05	Lever switch (power)
–	–	–	–	S31-2001-05	S31-2001-05	–	–	S31-2001-05	S31-2001-05	Slide switch (power voltage selector)
–	X00-1680-10	X00-1680-10	–	X00-1680-21	X00-1680-61	X00-1680-61	X00-1680-61	X00-1680-21	X00-1680-21	Power supply unit

PARTS LIST

☆ : New parts, ● : The parts not being kept in stock.

Ref. No.	Parts No.	Description	Re-marks
		CAPACITOR	
C1	C90-0323-05	Electrolytic 10,000μF 56WV	
C4	CK45D1H561M	Ceramic 560pF ±20%	
C5,6	CK45F1H403Z	Ceramic 0.04μF +80%,−20%	
		RESISTOR	
R3	R92-0158-05	Cement 180Ω ±10% 7W	
R4	PD14BY2E104J	Carbon 100kΩ ±5% 1/4W	
R5	PD14BY2E394J	Carbon 390kΩ ±5% 1/4W	
R6	PD14BY2E104J	Carbon 100kΩ ±5% 1/4W	
R7	PD14BY2E394J	Carbon 390kΩ ±5% 1/4W	
		MISCELLANEOUS	
—	A01-0293-03	Case	☆
—	A10-0479-11	Chassis	● ☆
—	A40-0146-03	Bottom plate	● ☆
—	B03-0115-03	Dress plate	☆
—	B07-0167-04	Pushbutton ring (A) for 2 key	☆
—	B07-0169-04	Pushbutton ring (B) x 2	☆
—	B10-0192-04	Front glass	☆
—	B19-0188-03	Lighting acryl board	☆
—	B30-0109-05	Pilot lamp (8V, 300mA)	
—	B31-0239-05	Meter x 2	☆
—	B42-0009-04	Passed sticker	
—	B42-0473-14	Serial number sticker	
—	E06-0501-05	DIN connector socket	
—	E13-0804-05	Pin jack (8P)	
—	E20-0809-05	Terminal block (8P)	
—	E90-0022-05	Shield cap x 4	
—	F19-0209-14	Blind board x 2	● ☆
—	H10-1427-02	Polystyrene foamed fixture	☆
—	H10-1428-02	Polystyrene foamed fixture	☆
—	H25-0078-00	Instruction bag	
—	J19-0306-05	Lead holder x 2	
—	J21-1445-03	Lamp mounting hardware	● ☆
—	J21-1446-03	Meter mounting hardware	● ☆
—	K21-0307-13	Knob (VOLUME)	☆
—	K23-0225-03	Knob (BALANCE)	☆
—	K23-0226-04	Knob (SELECTOR)	☆
—	K23-0227-04	Knob (TONE, SPEAKERS)	☆
—	K27-0027-24	Knob (TAPE) x 2	☆
—	K27-0028-04	Knob (METER RANGE, TONE DEFEAT)	☆
—	K27-0029-14	Knob (ATTENUATOR, POWER)	☆
—	K27-0034-04	Knob (SUB SONIC, MODE)	☆
—	N08-0125-05	Dress screw x 6	
—	N08-0128-15	GND terminal	
—	X07-1430-01	Power amp unit	☆
—	X08-1450-00	Preamp unit	☆
—	X11-1290-01	Control unit	☆

POWER SUPPLY (X00-1680-10, -21, -61)

Ref. No.	Parts No.	Description	Re-marks
		CAPACITOR	
Ck1,2	CK45E2H103P	Ceramic 0.01μF +100%,−0%	
Ck3	CE04W1H100EL	Electrolytic 10μF 50WV	
Ck4,5	CE04W1V471EL	Electrolytic 470μF 35WV	
		RESISTOR	
Rk1	RN14AB3D102JB	Metal film 1kΩ ±5% 2W	
Rk2,3	RN14AB3D561JB	Metal film 560Ω ±5% 2W	
		SEMICONDUCTOR	
Dk1	V11-0415-05	Diode M4C-5	
Dk2,3	V11-0273-05	Diode 1S2076A	
Dk4,5	V11-0286-05	Zener diode CZ-245	
		MISCELLANEOUS	
—	B41-0199-04	Fuse sticker (2.5A) (X00-1680-21)	●
—	B42-0617-04	Fuse sticker (2.5AT) (X00-1680-61)	● ☆
—	F05-5021-05	Fuse (5A) (X00-1680-10)	
—	F05-2525-05	Fuse (2.5A) (X00-1680-61)	
—	F05-2521-05	Fuse (2.5A) (X00-1680-21)	
—	J13-0039-05	Fuse holder (X00-1680-61) x 2	
—	J13-0041-05	Fuse holder (X00-1680-10,-21)x2	
—	J21-1296-04	Left PC board mounting hardware	●
—	J21-1297-04	Right PC board mounting hardware	●

POWER AMP (X07-1430-01)

Ref. No.	Parts No.	Description	Re-marks
		CAPACITOR	
Ce1,2	C91-0019-05	Film 0.47μF 100WV	
Ce3,4	CC45SL1H221K	Ceramic 220pF ±10%	
Ce7,8	CE04W1A470EL	Electrolytic 47μF 10WV	
Ce11,12	CC45SL1H220K	Ceramic 22pF ±10%	
Ce13,14	CE04W1A331EL	Electrolytic 330μF 10WV	
Ce15,16	CC45SL1H101K	Ceramic 100pF ±10%	
Ce17,18	CQ93M1H102K	Mylar 0.001μF ±10%	
Ce19~22	CE04W1A470EL	Electrolytic 47μF 10WV	
Ce23,24	CQ93M1H224M	Mylar 0.22μF ±20%	
Ce25,26	CE04W1H010EL	Electrolytic 1μF 50WV	
Ce27	CE04W1C101NP	Non-pole electrolytic 100μF 16WV	
Ce28	CE04W1E101BR	Electrolytic 100μF 25WV	
Ce29	CE04W1H221EL	Electrolytic 220μF 50WV	
Ce30	CE04W1H010EL	Electrolytic 1μF 50WV	
Ce40	CK45F1H223Z	Ceramic 0.022μF +80%,−20%	
		RESISTOR	
Re1,2	PD14BY2E334JKW	Carbon 330kΩ ±5% 1/4W	
Re3,4	PD14BY2E222JKW	Carbon 2.2kΩ ±5% 1/4W	
Re5,6	PD14BY2E563JKW	Carbon 56kΩ ±5% 1/4W	
Re7,8	PD14BY2E822JKW	Carbon 8.2kΩ ±5% 1/4W	
Re9,10	PD14BY2E182JKW	Carbon 1.8kΩ ±5% 1/4W	
Re11,12	PD14BY2E272JKW	Carbon 2.7kΩ ±5% 1/4W	
Re13,14	PD14BY2E563JKW	Carbon 56kΩ ±5% 1/4W	
Re17,18	PD14BY2E101JKW	Carbon 100Ω ±5% 1/4W	
Re19,20	PD14BY2E121JKW	Carbon 120Ω ±5% 1/4W	
Re21,22	PD14BY2E333JKW	Carbon 33kΩ ±5% 1/4W	
Re23,24	PD14BY2E392JKW	Carbon 3.9kΩ ±5% 1/4W	
Re25~28	PD14BY2E182JKW	Carbon 1.8kΩ ±5% 1/4W	
Re29~32	PD14BY2E391JKW	Carbon 390Ω ±5% 1/4W	
Re33~36	PD14BY2E153JKW	Carbon 15kΩ ±5% 1/4W	
Re37~40	PD14BY2E182JKW	Carbon 1.8kΩ ±5% 1/4W	
Re41~44	RN14AB3A331JB	Metal film 330Ω ±5% 1W	

PARTS LIST

Ref. No.	Parts No.	Description	Re-marks
Re45~48	R92-0111-05	Cement 0.47Ω ±5% 3W	
Re49,50	RN14AB3D4R7JB	Metal film 4.7Ω ±5% 2W	
Re51,52	PD14BY2E223JKW	Carbon 22kΩ ±5% 1/4W	
Re53	RC05GF2H682JKW	Carbon 6.8kΩ ±10% 1/2W	
Re54	PD14BY2E272JKW	Carbon 2.7kΩ ±5% 1/4W	
Re55	PD14BY2E563JKW	Carbon 56kΩ ±5% 1/4W	
Re56	PD14BY2E303J	Carbon 30kΩ ±5% 1/4W	
Re57	PD14BY2E822JKW	Carbon 8.2kΩ ±5% 1/4W	
Re58	RN14AB3A681JB	Metal film 680Ω ±5% 1W	
Re63	RN14AB3D562JB	Metal film 5.6kΩ ±5% 1W	
Re64	RN14AB3D330JB	Metal film 33Ω ±5% 1W	
Re65,66	PD14BY2E101JKW	Carbon 100Ω ±5% 1/4W	
		SEMICONDUCTOR	
Qe1~4	V01-0140-05	Transistor 2SA763WL(4) or (5)	
Qe5,6	V03-0407-05	Transistor 2SC1628 (O) or (Y) or	
	V03-0439-05	Transistor 2SC1885 (R) or (S)	
Qe7,8	V01-0153-05	Transistor 2SA818 (O) or (Y) or	
	V01-0162-05	Transistor 2SA912 (R) or (S)	
Qe9,10	V01-0157-05	Transistor 2SA620WB (4) or (5)	
Qe11,12	V01-0084-05	Transistor 2SA733 (Q) or (R)	
Qe13~16	V03-0270-05	Transistor 2SC945 (Q) or (R)	
Qe17,18	V01-0084-05	Transistor 2SA733 (Q) or (R)	
Qe19,20	V04-0068-05	Transistor 2SD415 (Q) or (R)	
Qe21,22	V02-0052-05	Transistor 2SB549 (Q) or (R)	
Qe23,24	V04-0073-05	Transistor 2SD388A (Q) or (R) or (S)	
Qe25,26	V02-0056-05	Transistor 2SB541A (Q) or (R) or (S)	
Qe27	V03-0430-05	Transistor 2SC1746 (GR)	
Qe28	V03-0235-05	Transistor 2SC1212A (C)	
De1~10	V11-0271-05	Diode 1S2076	
De11	V11-0295-05	Diode W06B	
De12	V11-0254-05	Zener diode YZ-140	
THe1,2	V22-0027-05	Thermister 5TP-41L	
		POTENTIOMETER	
VRe1,2	R12-1007-05	PC trimmer 1kΩ (B) BIAS	
		RELAY	
RLe1	S51-4030-05	Relay	
		MISCELLANEOUS	
—	E02-0209-05	Transistor socket x 4	
—	F01-0234-03	Heat sink	● ☆
—	F20-0066-05	Mica plate x 4	
—	J21-1448-04	PC board mounting hardware	● ☆

PREAMP (X08-1450-00)

Ref. No.	Part No.	Description	Re-marks
		CAPACITOR	
Cd1,2	CE04W1A470EL	Electrolytic 47μF 10WV	
Cd3,4	CE04W1A101EL	Electrolytic 100μF 10WV	
Cd5,6	CE04W1H010MBR	Electrolytic 1μF 50WV	
Cd7	CE04W1V101EL	Electrolytic 100μF 35WV	
Cd8	CE04W1E221EL	Electrolytic 220μF 25WV	
Cd9,10	CQ93M1H682J	Mylar 0.0068μF ±5%	
Cd11~14	CQ93M1H392J	Mylar 0.0039μF ±5%	
Cd15,16	CC45SL1H050D	Ceramic 5pF ±0.5pF	
Cd17	CE04W1C470EL	Electrolytic 47μF 16WV	
		RESISTOR	
Rd1,2	PD14CY2E222JKW	Carbon 2.2kΩ ±5% 1/4W	
Rd3,4	PD14CY2E473JKW	Carbon 47kΩ ±5% 1/4W	
Rd5,6	PD14CY2E752JKW	Carbon 7.5kΩ ±5% 1/4W	

Ref. No.	Parts No.	Description	Re-marks
Rd7,8	PD14CY2E103JKW	Carbon 10kΩ ±5% 1/4W	
Rd9,10	PD14CY2E821JKW	Carbon 820Ω ±5% 1/4W	
Rd11,12	PD14CY2E514JKW	Carbon 510kΩ ±5% 1/4W	
Rd13,14	PD14CY2E393JKW	Carbon 39kΩ ±5% 1/4W	
Rd15,16	PD14CY2E622JKW	Carbon 6.2kΩ ±5% 1/4W	
Rd17,18	PD14CY2E821JKW	Carbon 820Ω ±5% 1/4W	
Rd19,20	PD14CY2E224JKW	Carbon 220kΩ ±5% 1/4W	
Rd21,22	PD14CY2E331JKW	Carbon 330Ω ±5% 1/4W	
Rd23	PD14CY2E472JKW	Carbon 4.7kΩ ±5% 1/4W	
Rd24	PD14CY2E332JKW	Carbon 3.3kΩ ±5% 1/4W	
Rd25	RN14AB3A101JMA	Metal film 100Ω ±5% 1W	
		SEMICONDUCTOR	
Qd1,2	V09-0096-05	FET 2SK68A (M)	
Qd3,4	V09-0095-05	FET 2SK68A (K)	
Qd5,6	V01-0165-05	Transistor 2SA763WL (6)	
		MISCELLANEOUS	
—	E13-0608-05	Pin jack (6P)	☆

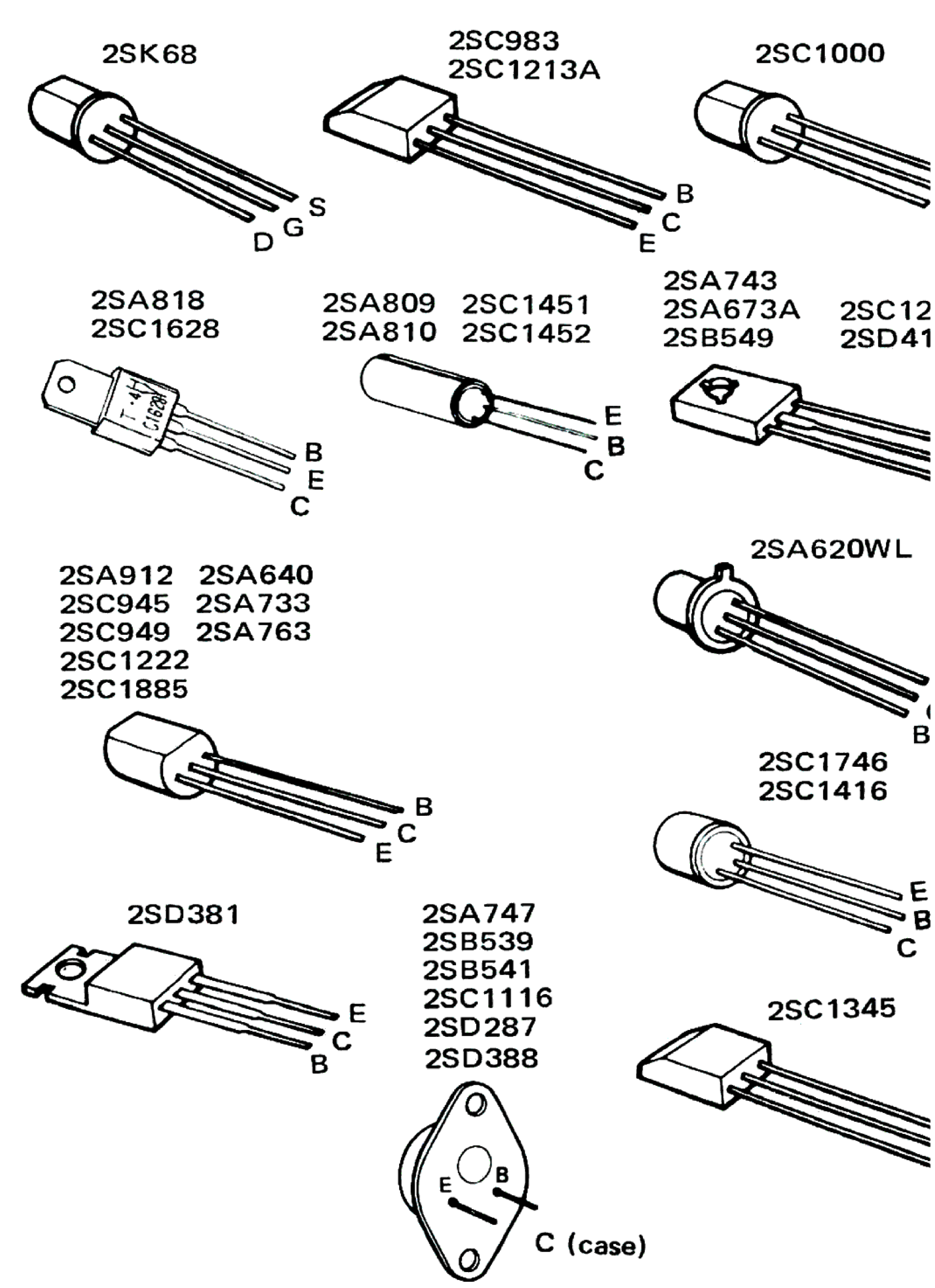
CONTROL (X11-1290-01)

Ref. No.	Parts No.	Description	Re-marks
		CAPACITOR	
Ci1,2	CE04W1H010MBR	Electrolytic 1μF 50WV	
Ci3,4	CE04W1A470EL	Electrolytic 47μF 10WV	
Ci5,6	CC45SL1H470K	Ceramic 47pF ±10%	
Ci7,8	CC45SL1H050D	Ceramic 5pF ±0.5pF	
Ci9,10	CE04W1H3R3MBR	Electrolytic 3.3μF 50WV	
Ci11,12	CQ93M1H183K	Mylar 0.018μF ±10%	
Ci13,14	CQ93M1H154K	Mylar 0.15μF ±10%	
Ci15,16	CQ93M1H392K	Mylar 0.0039μF ±10%	
Ci17~22	CQ93M1H273K	Mylar 0.027μF ±10%	
Ci23,24	CE04W1H010MBR	Electrolytic 1μF 50WV	
Ci27,28	CE04W1E221EL	Electrolytic 220μF 25WV	
Ci31,32	CQ93M1H223K	Mylar 0.022μF ±10%	
Ci33, 34	CC45SL1H050D	Ceramic 5pF ±0.5pF	
Ci35,36	CE04W1H010EL	Electrolytic 1μF 50WV	
		RESISTOR	
Ri1,2	PD14BY2E222JKW	Carbon 2.2kΩ ±5% 1/4W	
Ri3,4	PD14BY2E473JKW	Carbon 47kΩ ±5% 1/4W	
Ri5,6	PD14BY2E562JKW	Carbon 5.6kΩ ±5% 1/4W	
Ri7, 8	PD14BY2E222JKW	Carbon 2.2kΩ ±5% 1/4W	
Ri9,10	PD14BY2E334JKW	Carbon 330kΩ ±5% 1/4W	
Ri11,12	PD14BY2E474JKW	Carbon 470kΩ ±5% 1/4W	
Ri13,14	PD14BY2E824JKW	Carbon 820kΩ ±5% 1/4W	
Ri15,16	PD14BY2E562JKW	Carbon 5.6kΩ ±5% 1/4W	
Ri17~20	PD14BY2E124JKW	Carbon 120kΩ ±5% 1/4W	
Ri21,22	PD14BY2E103JKW	Carbon 10kΩ ±5% 1/4W	
Ri23,24	PD14BY2E301JKW	Carbon 300Ω ±5% 1/4W	
Ri25,26	PD14BY2E153JKW	Carbon 15kΩ ±5% 1/4W	
Ri27,28	PD14BY2E332JKW	Carbon 3.3kΩ ±5% 1/4W	
Ri29,30	PD14BY2E682JKW	Carbon 6.8kΩ ±5% 1/4W	
Ri31,32	PD14BY2E152JKW	Carbon 1.5kΩ ±5% 1/4W	
Ri33,34	PD14BY2E621JKW	Carbon 620Ω ±5% 1/4W	
Ri35,36	PD14BY2E154JKW	Carbon 150kΩ ±5% 1/4W	
Ri37,38	PD14BY2E824JKW	Carbon 820kΩ ±5% 1/4W	
Ri39,40	PD14BY2E304JKW	Carbon 300kΩ ±5% 1/4W	
Ri41,42	PD14BY2E222JKW	Carbon 2.2kΩ ±5% 1/4W	
Ri43,44	PD14BY2E472JKW	Carbon 4.7kΩ ±5% 1/4W	
Ri47,48	RN14AB3D471JB	Metal film 470Ω ±5% 2W	
Ri49,50	PD14BY2E332JKW	Carbon 3.3kΩ ±5% 1/4W	
Ri51,52	PD14BY2E133JKW	Carbon 13kΩ ±5% 1/4W	
Ri53,54	PD14BY2E392JKW	Carbon 3.9kΩ ±5% 1/4W	
Ri55,56	PD14BY2E182JKW	Carbon 1.8kΩ ±5% 1/4W	
Ri57,58	RN14AB3A221K	Metal film 220Ω ±10% 1W	
Ri59,60	PD14BY2E103JKW	Carbon 10kΩ ±5% 1/4W	

PARTS LIST/SEMICONDUCTOR SUBSTITUTIONS

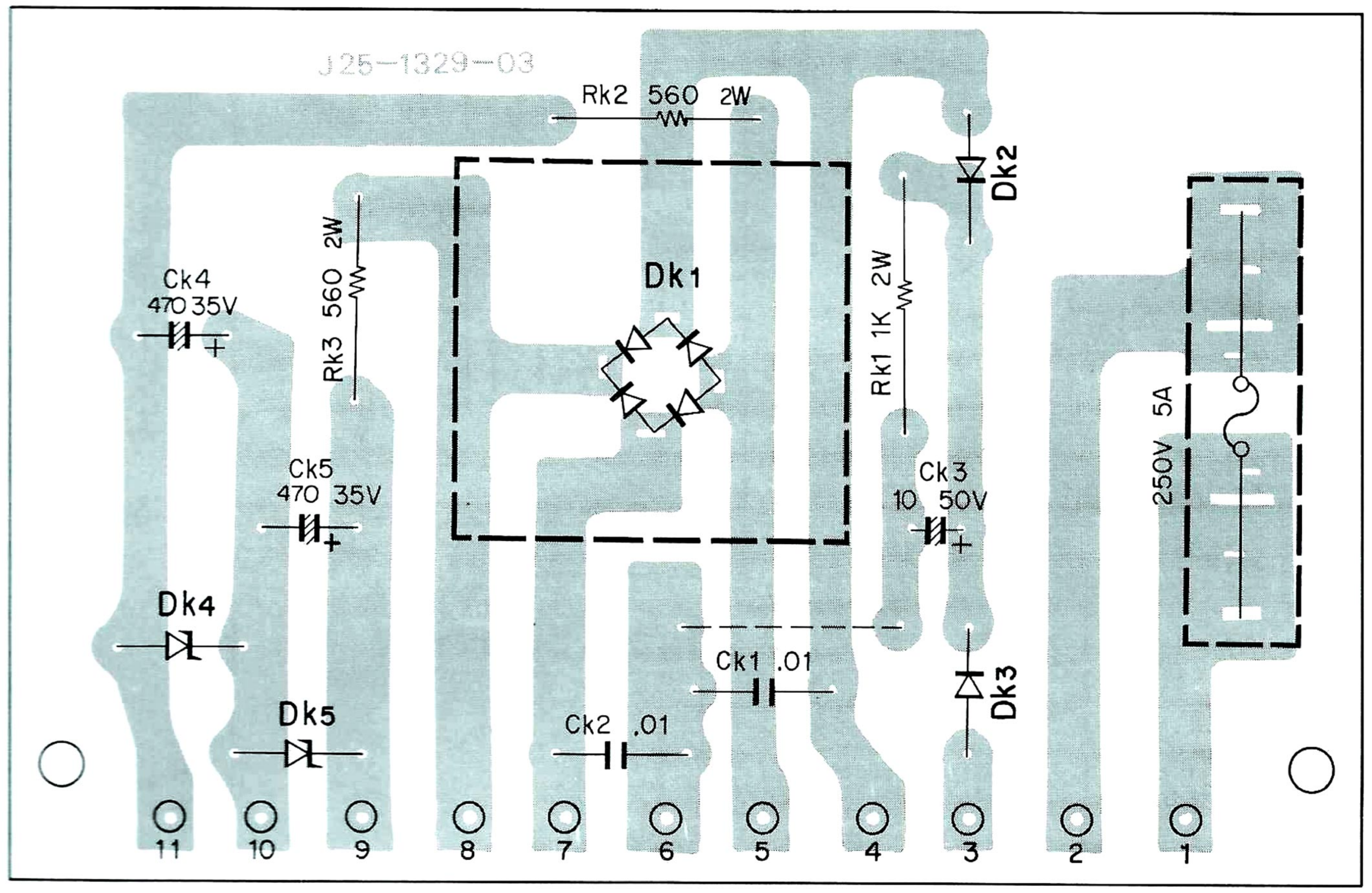
Ref. No.	Parts No.	Description	Re-marks
		MISCELLANEOUS	
Qi1,2	V03-0271-05	Transistor 2SC1345 (E)	
Di1,2	V11-0332-05	Diode 1N34A	
ICi1,2	V30-0122-05	IC TA7136P	
		POTENTIOMETER	
VRi1,2	R06-4028-05	Potentiometer 50kΩ (C) x 2 TONE	☆
VRi3,4	R12-2008-05	PC trimmer 5kΩ (B) METER	
VR1,2	R11-5013-05	Potentiometer 100kΩ (MN) 100kΩ (A) x 2 VOLUME/BALANCE	☆
		SWITCH	
S1	S01-1029-05	Rotary (INPUT)	☆
S2	S33-4002-05	Lever (DUB)	☆
S3	S33-2002-05	Lever (MON)	☆
S4	S33-2001-05	Lever (ATT)	☆
S5,7	S42-2006-06	Pushbutton (MODE/SUBSONIC)	☆
S6,8	S40-2068-05	Pushbutton (DEFEAT/METER)	☆
S10	S01-1031-05	Rotary (SPEAKERS)	☆
		MISCELLANEOUS	
–	A22-0190-12	Sub panel	● ☆
–	E11-0058-05	Phone jack (or E11-0060-15)	
–	F10-0406-03	Shield plate (A)	● ☆
–	F10-0407-04	Shield plate (B)	● ☆

SEMICONDUCTOR	SUBSTITUTIONS
PRE AMP	
(X08-1450-00)	
2SA763WL (6)	2SA640 (E), (F)
	2SA620WL (4), (5), (6)
2SK68 A	–
POWER AMP	
(X07-1430-01)	
2SA620WB (4), (5)	2SA620WL
2SA733 (Q), (R)	2SA673A (B), (C)
2SA763WL (4), (5)	2SA640 (E), (F)
2SA818 (O), (Y)	2SA810, 2SA809, 2SA912
2SB541A (Q),(R), (S)	2SA747, 2SB539
2SB549 (Q), (R)	2SA743A (B), (C)
2SC945 (Q), (R)	2SC1213A (B), (C)
2SC1212A (C)	2SD415, 2SD381
2SC1628 (O), (Y)	2SC983, 2SC1885, 2SC1451, 2SC
2SC1746 (GR)	2SC1416
2SD388A (Q),(R), (S)	2SC1116, 2SD287
2SD415 (Q), (R)	2SC1212A (B), (C)
CONTROL	
(X11-1290-01)	
2SC1345 (E)	2SC1222, 2SC949L, 2SC1000
TA-7136P	–



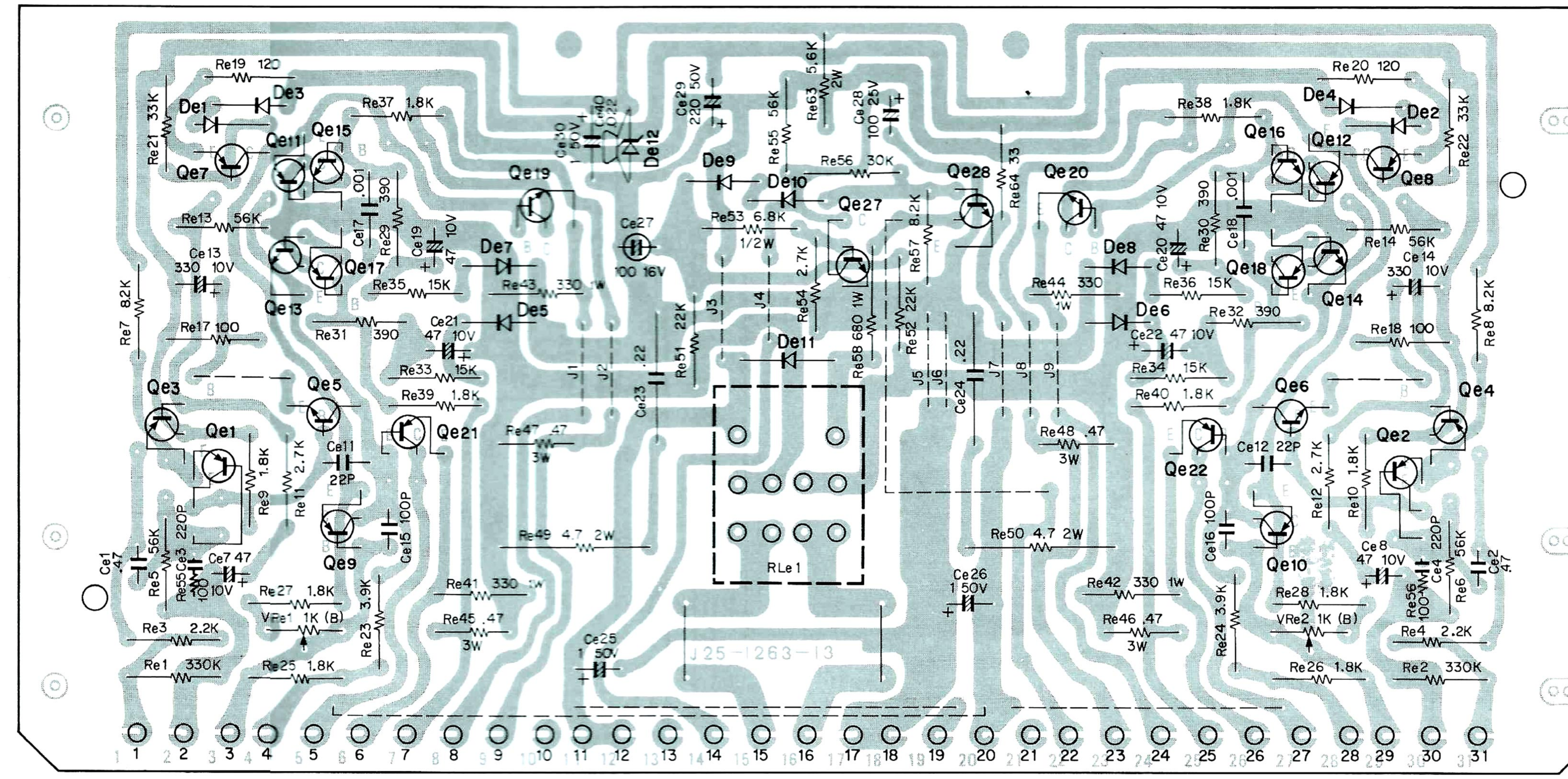
PC BOARD

POWER SUPPLY (X00-1680-10)



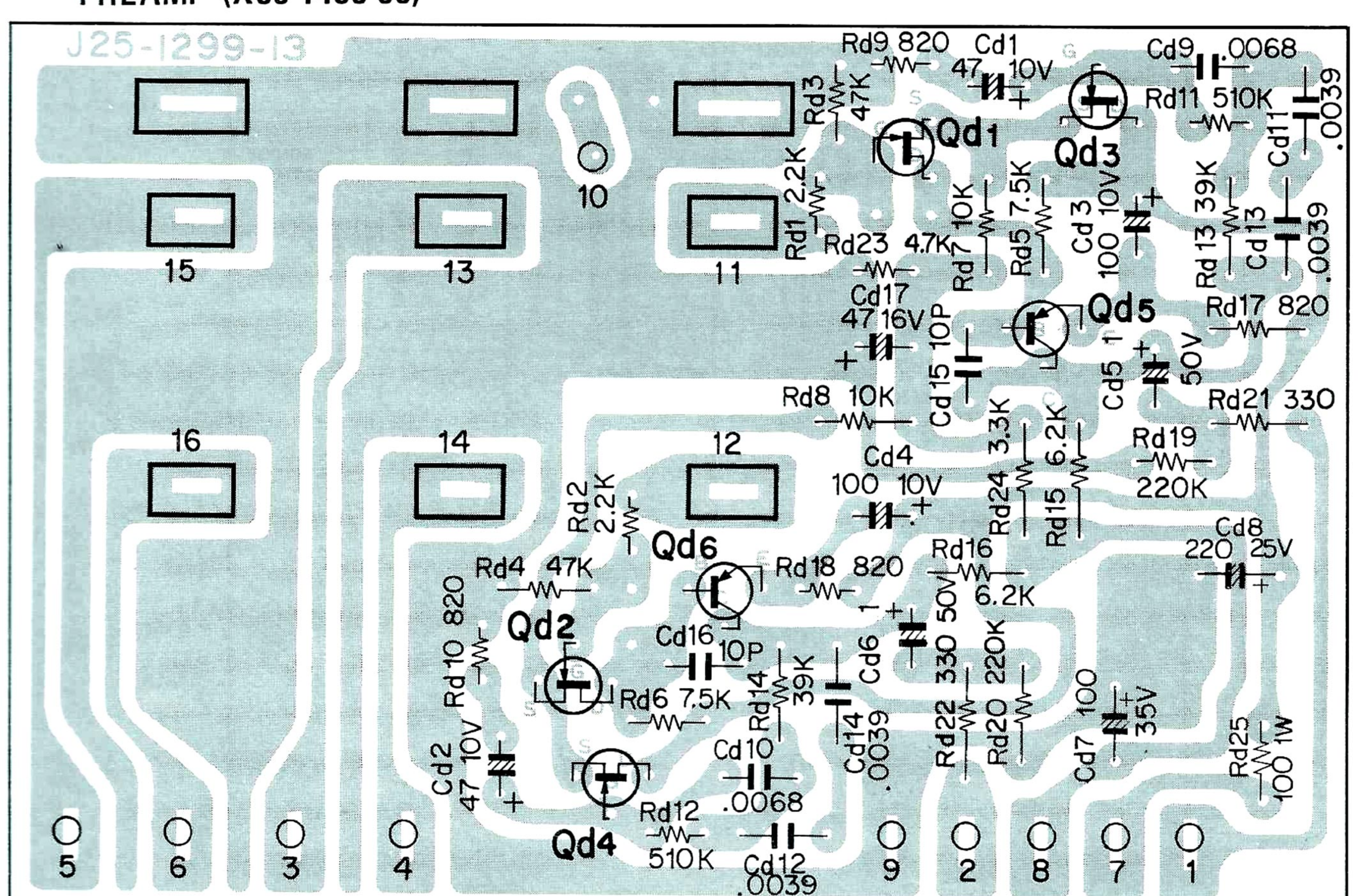
Dk1:M4C-5, Dk2, 3:1S-2076A, Dk4, 5:CZ-245

POWER AMP (X07-1430-01)



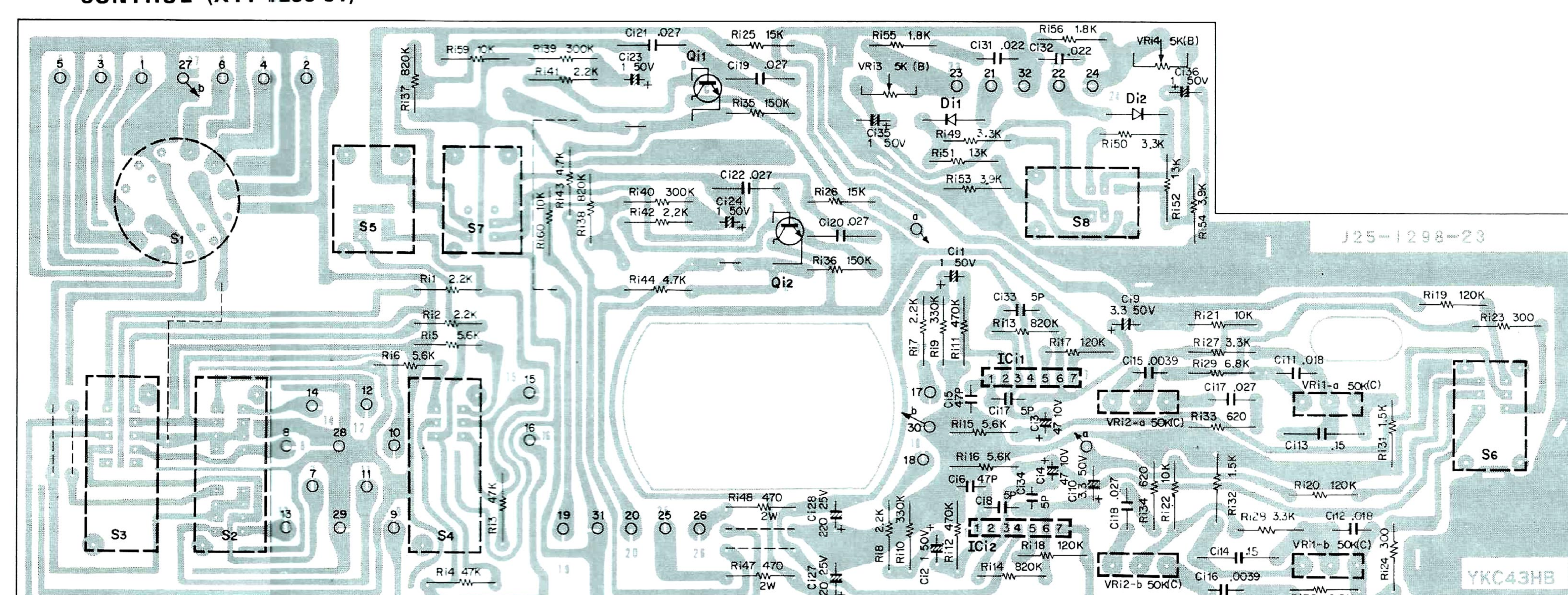
Qe1~4:2SA763WL 4 or 5, Qe5, 6:2SC1628 (O) or (Y), Qe7, 8:2SA818 (O) or (Y), Qe9, 10:2SA620WB 4 or 5, Qe11, 12, 17, 18:2SA733 (Q) or (R), Qe13~16:2SC945 (Q) or (R), Qe19, 20:2SD415 (Q) or (R), Qe21, 22:2SB549 (Q) or (R), Qe23, 24:2SD388A (Q) or (R), Qe25, 26:2SB541A (Q) or (R), Qe27:2SC1746 (GR), Qe28:2SC1212A (C), De1~10:1S-2076, De11:W06B, De12:YZ-140, THe1, 2:5TP-41L

PREAMP (X08-1450-00)



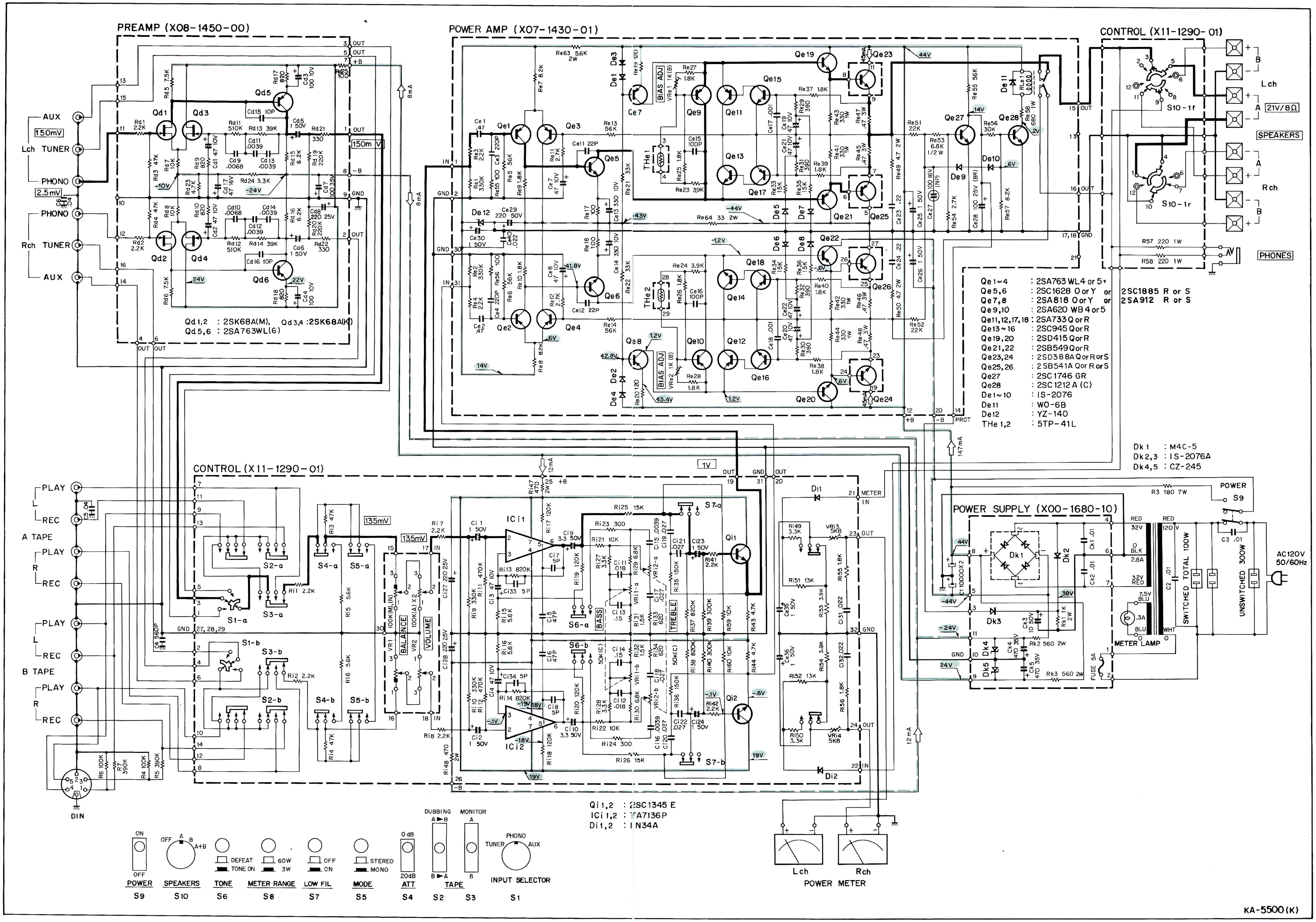
Qd1, 2:2SK68A (M), Qd3, 4:2SK68A (K), Qd5, 6:2SA763WL (6)

CONTROL (X11-1290-01)



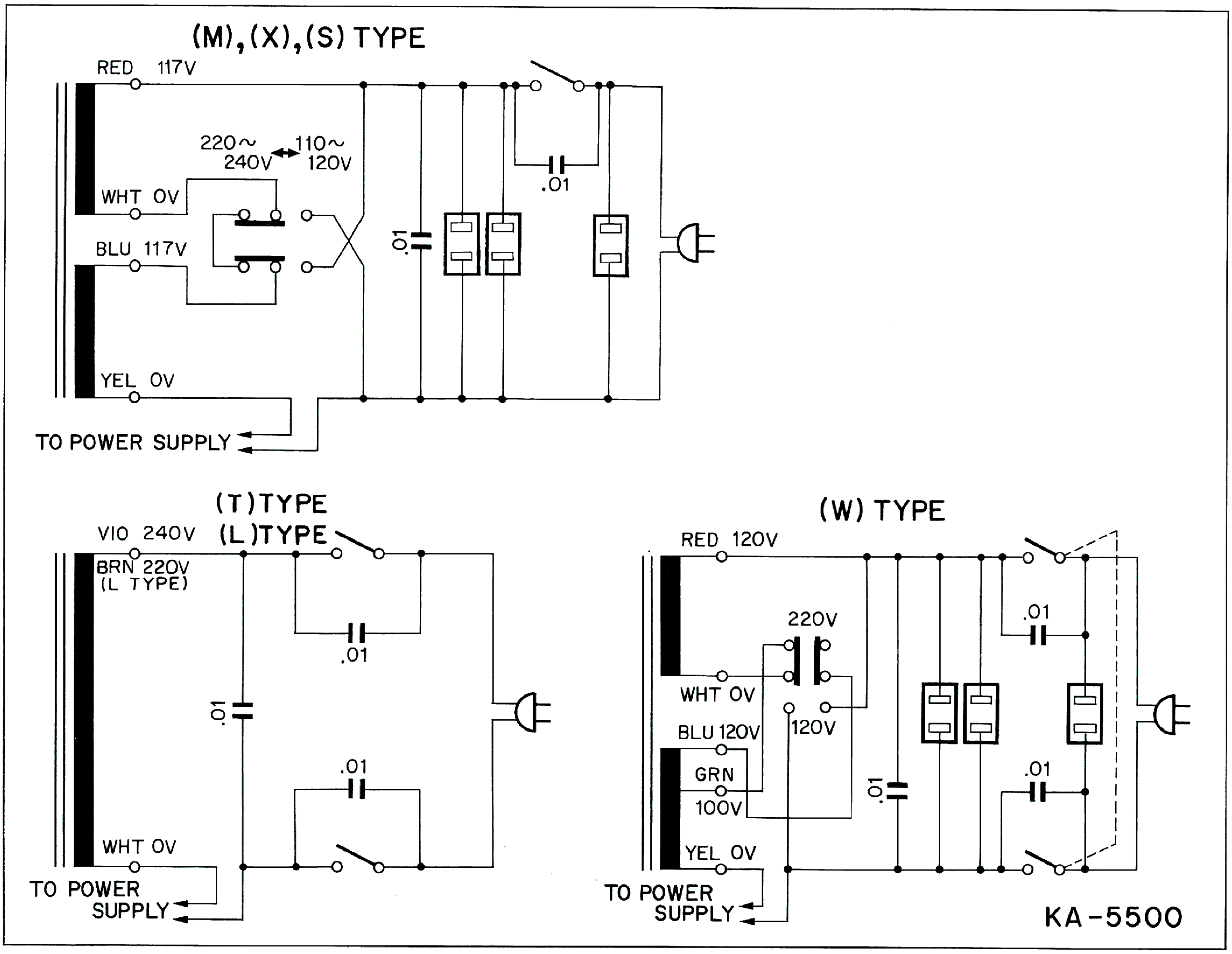
Qi1, 2:2SC1345 (E), ICi1, 2:TA7136P, Di1, 2:1N34A

SCHEMATIC DIAGRAM (1)



DC voltage measured with 20 kΩ/V meter.

SCHEMATIC DIAGRAM(2)



SPECIFICATIONS

POWER AMPLIFIER SECTION

Power Output

55 watts per channel minimum, RMS at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.1% total harmonic distortion

Both channel driven	60 + 60 watts 8 ohms at 1,000 Hz 70 + 70 watts 4 ohms at 1,000 Hz
Dynamic Power Output	200 watts (4 ohms)
Total Harmonic Distortion	0.1% at rated power into 8 ohms 0.06% at 1 watt power into 8 ohms at 20 Hz ~ 20,000 Hz
Intermodulation Distortion (60 Hz : 7 kHz 4 : 1)	0.1% at rated power into 8 ohms 0.06% at 1 watt power into 8 ohms
Power Bandwidth	5 Hz to 40,000 Hz
Signal to Noise Ratio	100 dB (short circuited)
Damping Factor	50 at 8 ohms
Speaker Impedance	Accept 4 ohms to 16 ohms

PREAMPLIFIER SECTION

Input Sensitivity, Impedance

Phono	2.5 mV	50 Kohms
Tuner	150 mV	50 Kohms
AUX	150 mV	50 Kohms
Tape Play A, B (Pin)	150 mV	50 Kohms

Maximum Input Voltage (rms)

Phono	200 mV rms T.H.D. 0.1% at 1,000 Hz

Signal to Noise Ratio (IHF A CURVE)

Phono	76 dB (5 mV input)
Tuner	90 dB
AUX	90 dB
Tape Play A, B	90 dB

Output Voltage and Impedance

Tape Rec. A, B (Pin)	150 mV

Frequency Response

Phono	RIAA Standard curve ±0.3 dB
Tuner, AUX , Tape Play	20 Hz ~ 40 kHz $^{+0}_{-0.5}$ dB

Tone Controls

Bass	±10 dB at 100 Hz
Treble	±10 dB at 10,000 Hz
Low Filter	40 Hz, 12 dB/oct

GENERAL

Switches

Speaker Selector	OFF, A, B, A + B
Input Selector	PHONO, AUX , TUNER
Mode	STEREO, MONO
Function	ATTENUATOR, TONE-DEFEAT, LOUDNESS, METER RANGE
Tape Monitor	A, B,
Dubbing	A → B, B → A

AC Outlet	Switched 2, Unswitched 1
Power Consumption	340 watts at full signal
Dimensions	W 14-31/32" (380 mm) H 5-1/2" (140 mm) D 10-1/32" (255 mm)
Weight	23.1 lbs. (10.5 kg)

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