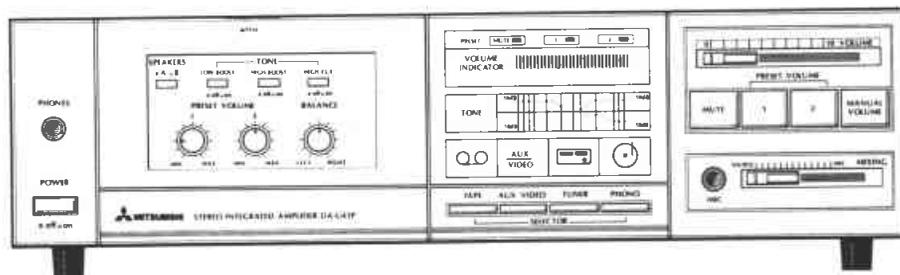


SERVICE MANUAL
STEREO INTEGRATED AMPLIFIER
MODEL DA-U41P



CONTENTS

SPECIFICATIONS	2
DISASSEMBLY INSTRUCTIONS	2
BLOCK DIAGRAM	3
INTERNAL DIAGRAMS AND PINOUT OF INTEGRATED CIRCUIT	4
WIRNG DIAGRAM	5
SCHEMATIC DIAGRAM	7
PRINTED CIRCUIT BOARDS	9
EXPLODED VIEW	11
PARTS LIST	12
PACKING INSTRUCTIONS	14

SPECIFICATIONS

Note: All measurements are for 8 ohms output unless otherwise stated.

AMPLIFIER SECTION

40 watts per channel, min. RMS, at 8 ohm from 30 Hz to 20 kHz with no more than 0.2% total harmonic distortion.

Input sensitivity/impedance

PHONO	2.5 mV/50k ohms
TUNER, AUX/VIDEO, PLAY	150 mV/50k ohms

Maximum input level

PHONO	100 mV
-------------	--------

Output level/impedance

REC OUT	150 mV/600 ohms
---------------	-----------------

Frequency response

PHONO	±0.3 dB 20 Hz–20 kHz, RIAA
TUNER, AUX/VIDEO, PLAY	±0.2 dB 20 Hz–20 kHz

Total harmonic distortion (20 Hz–20 kHz)

PHONO	0.03%
TUNER, AUX/VIDEO, PLAY	0.03%

Signal to noise ratio

PHONO	80 dB (IHF)
TUNER, AUX/VIDEO, PLAY	95 dB (IHF)

Tone control High boost, Low boost, High cut

GENERAL

Power consumption	120 W
Dimensions (W x H x D)	355 x 103 x 240 mm (14 x 4-1/16 x 9-7/16")
Weight	5.3 kg (11.7 lbs)
◆ Accessory	A cord for auto program selector

Design and specifications are subject to change without notice for improvement.

DISASSEMBLY INSTRUCTIONS:

1. How to Remove Top Cover

- 1) To remove the top cover, remove four screws (A) in Fig. 1.
- 2) To remove the bottom cover, remove seven screws (B) in Fig. 1.

2. How to Remove Front Panel

- 1) Remove three screws (M2 x 8) in the upper portion of front panel and three screws (M2 x 8) in the lower portion. Then remove each control (VOLUME, MIXING).

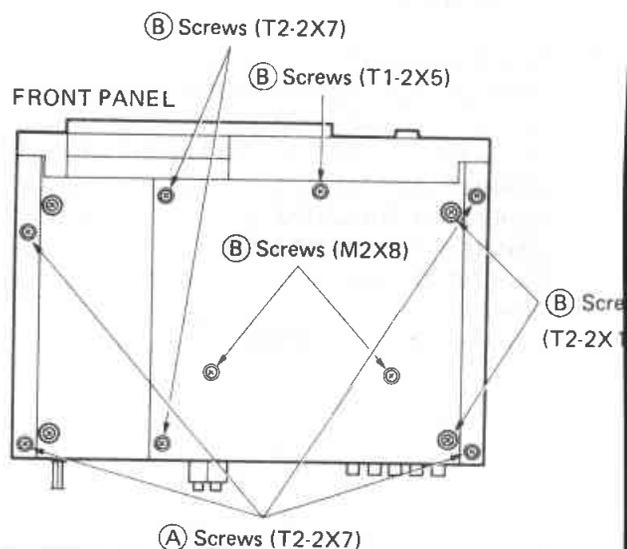
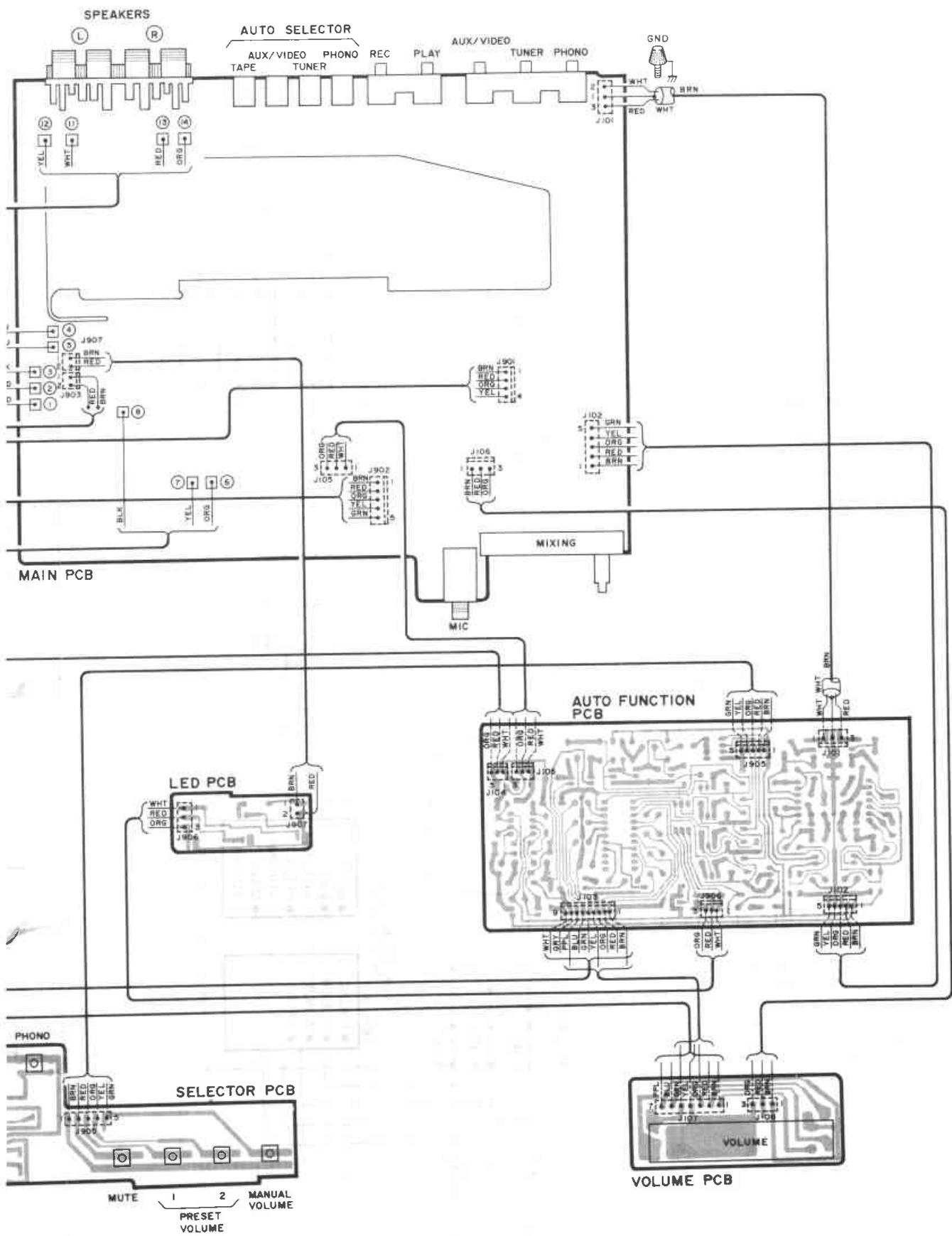
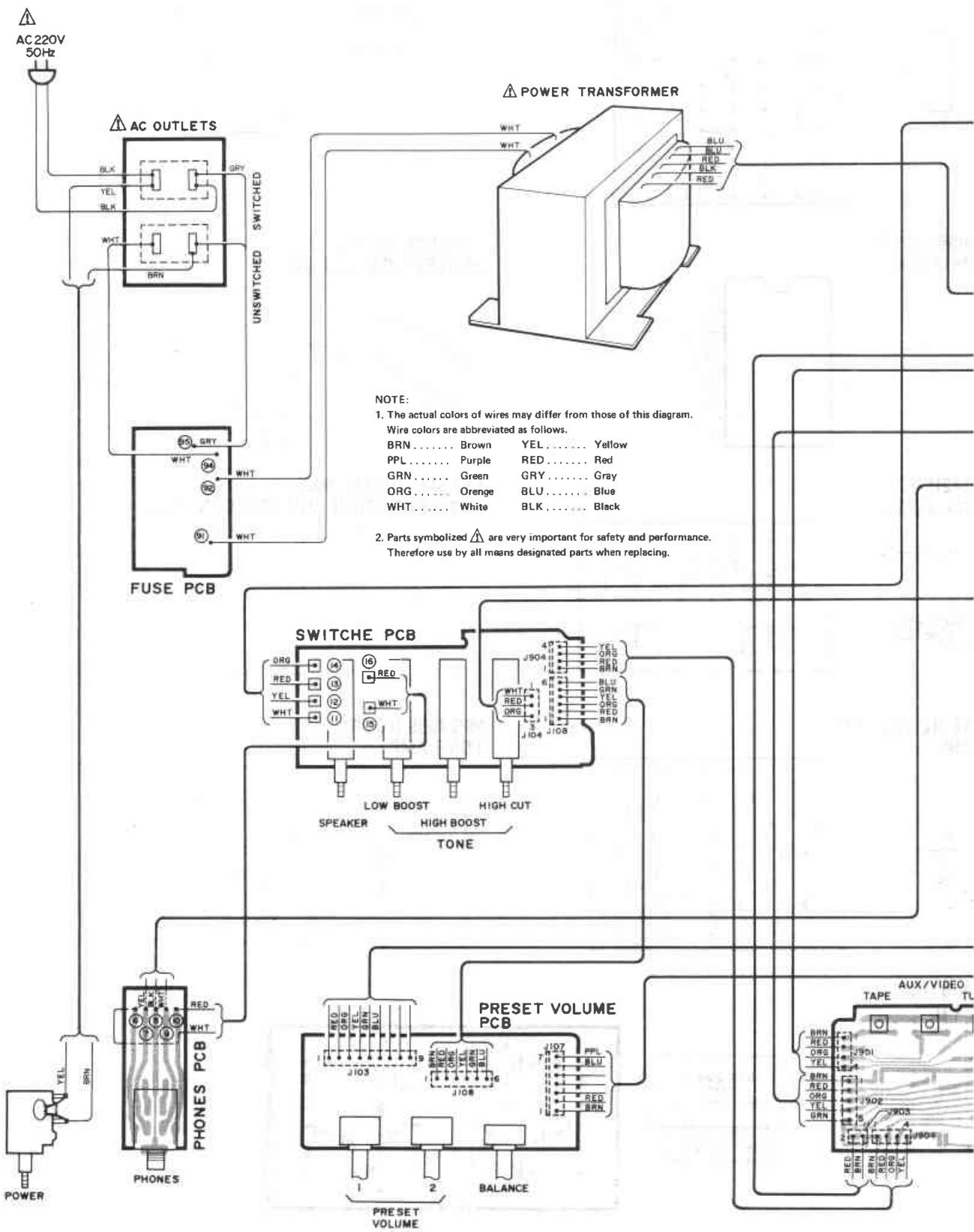


Fig. 1



WIRING DIAGRAM



NOTE:

1. The actual colors of wires may differ from those of this diagram.

Wire colors are abbreviated as follows.

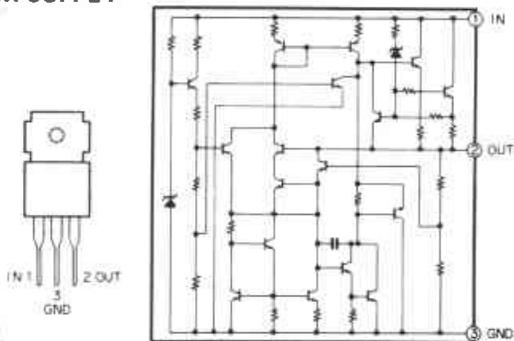
- | | | | |
|---------------|--------|---------------|--------|
| BRN | Brown | YEL | Yellow |
| PPL | Purple | RED | Red |
| GRN | Green | GRY | Gray |
| ORG | Orange | BLU | Blue |
| WHT | White | BLK | Black |

2. Parts symbolized Δ are very important for safety and performance. Therefore use by all means designated parts when replacing.

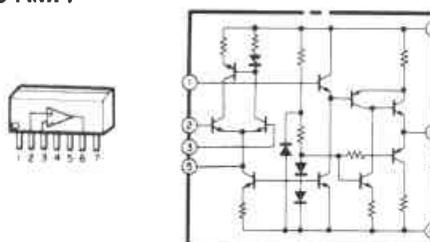
IC101,102

INTERNAL DIAGRAMS AND PINOUT OF INTEGRATED CIRCUIT

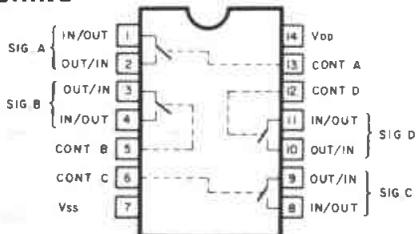
MPC7812H (IC 51)
POWER SUPPLY



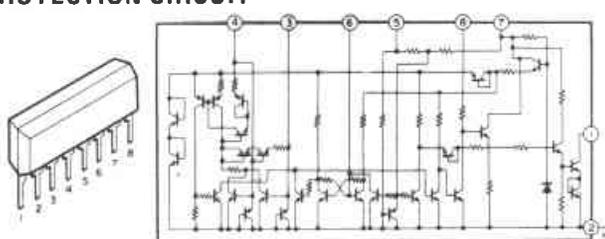
M5213L (IC 801)
MIC AMP.



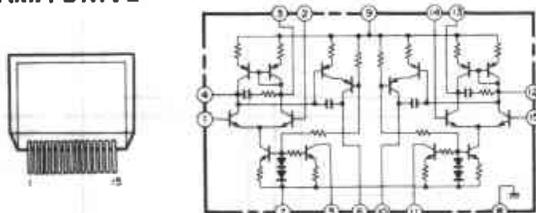
MSM4066 (IC 901)
R/I SWITCHING



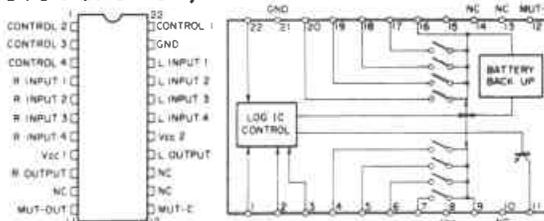
HA12002 (IC 701)
PROTECTION CIRCUIT



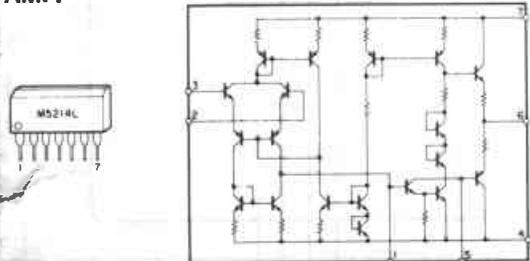
ST304211 (IC 352)
PREAMP. DRIVE



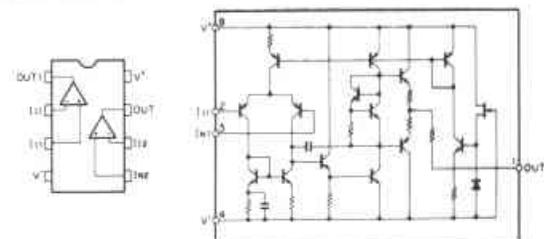
TK10321 (IC 902, 903)
AUTO FUNCTION, VOLUME CONTROL



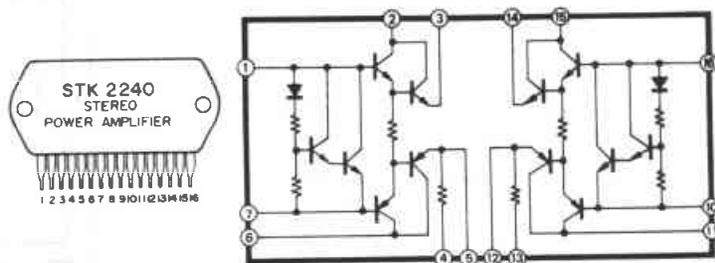
M5214L (IC 101, 201)
EQ AMP.



MPC4559 (IC 301)
TONE AMP.

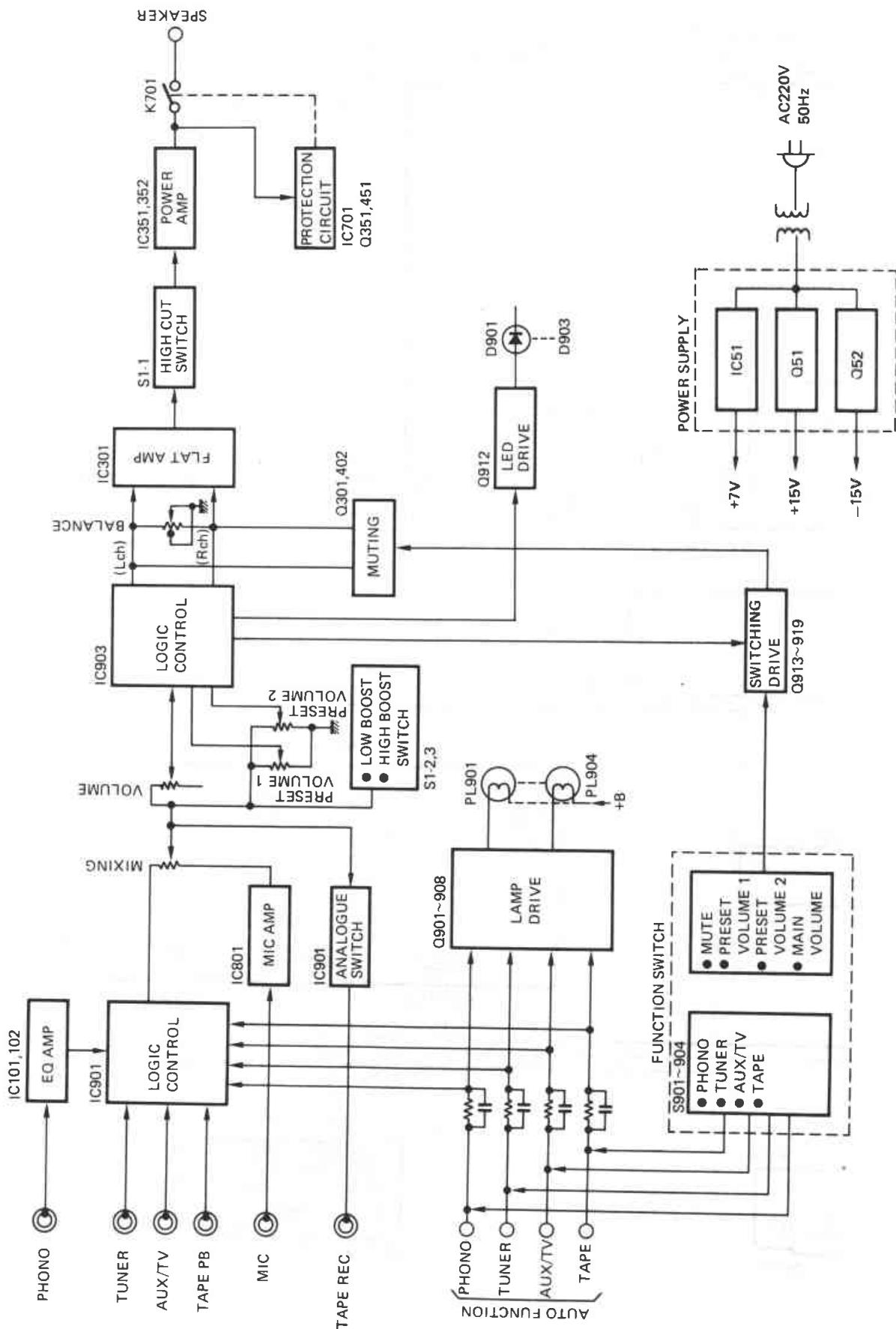


ST2240 (IC351)
POWER IC

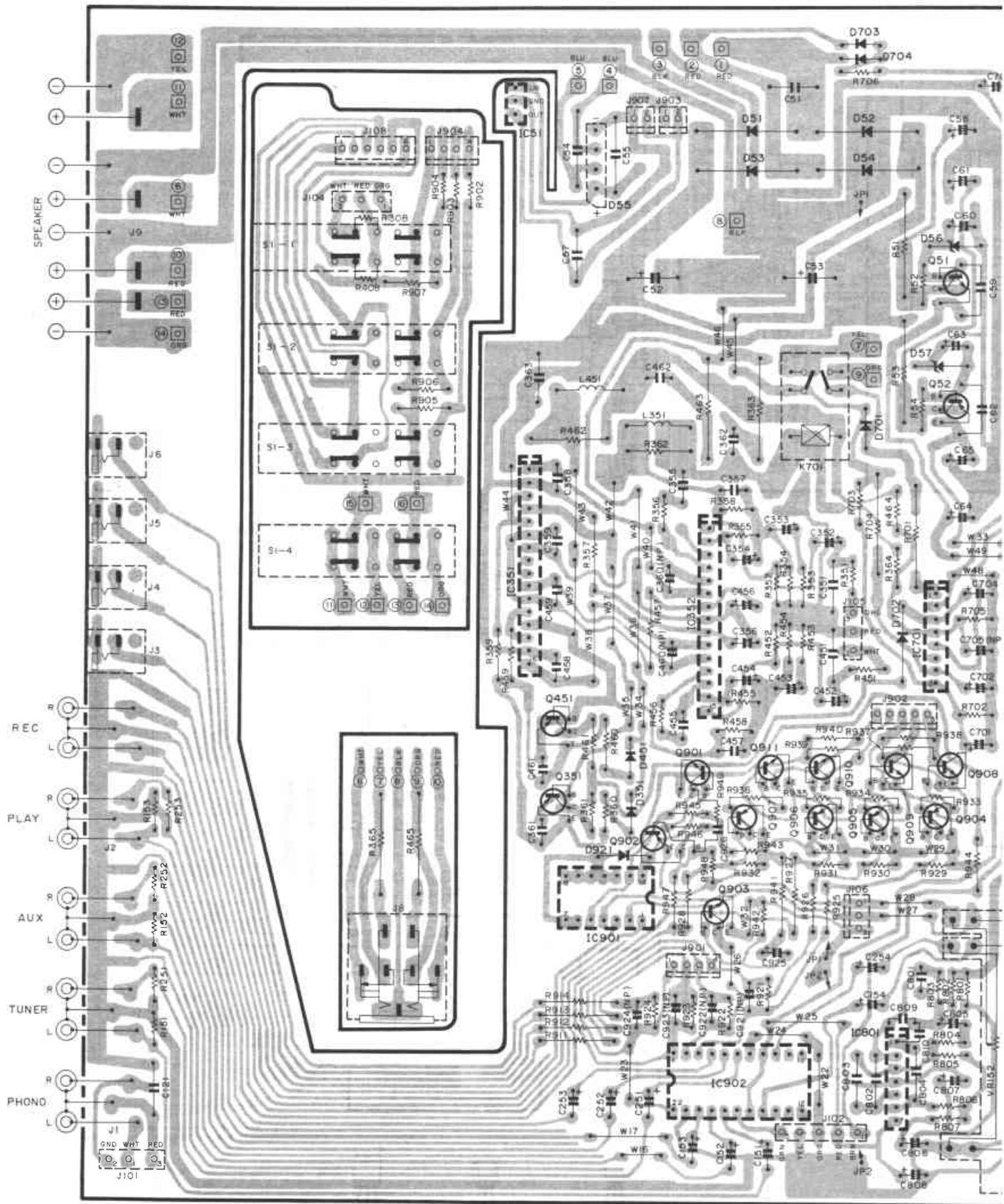


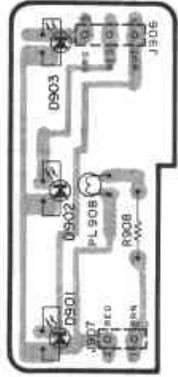
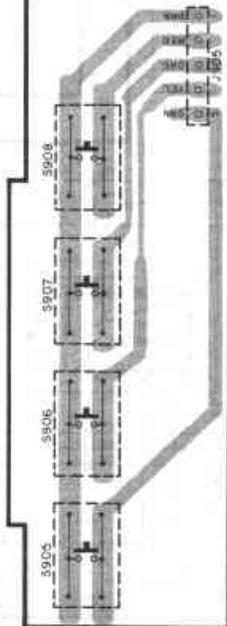
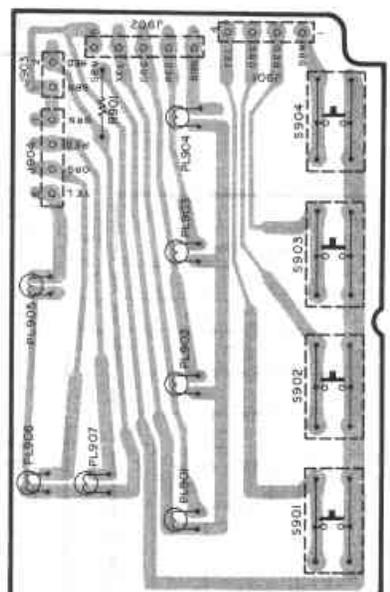
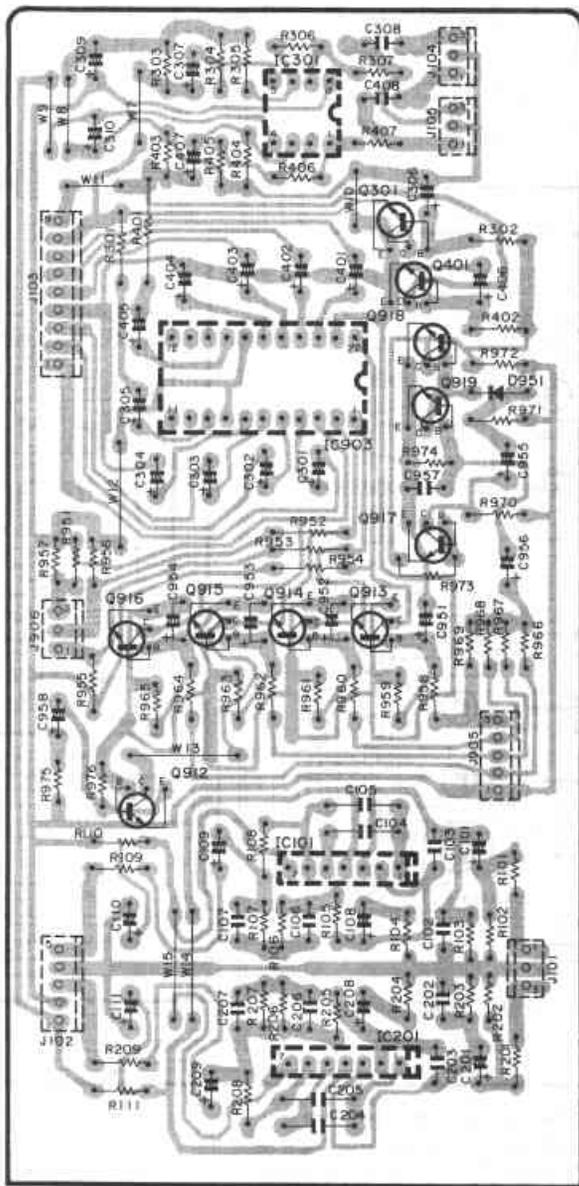
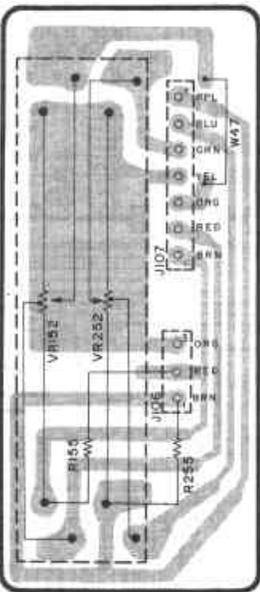
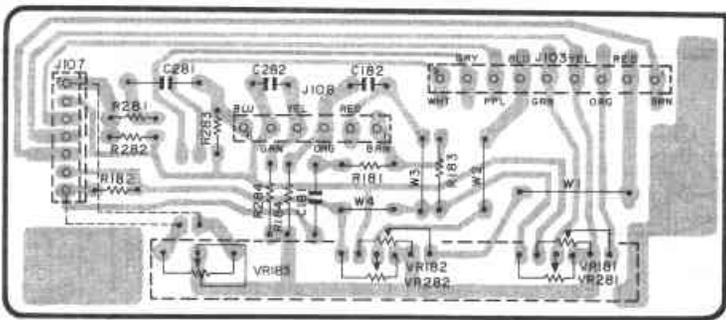
WPK DIAGRAM

8

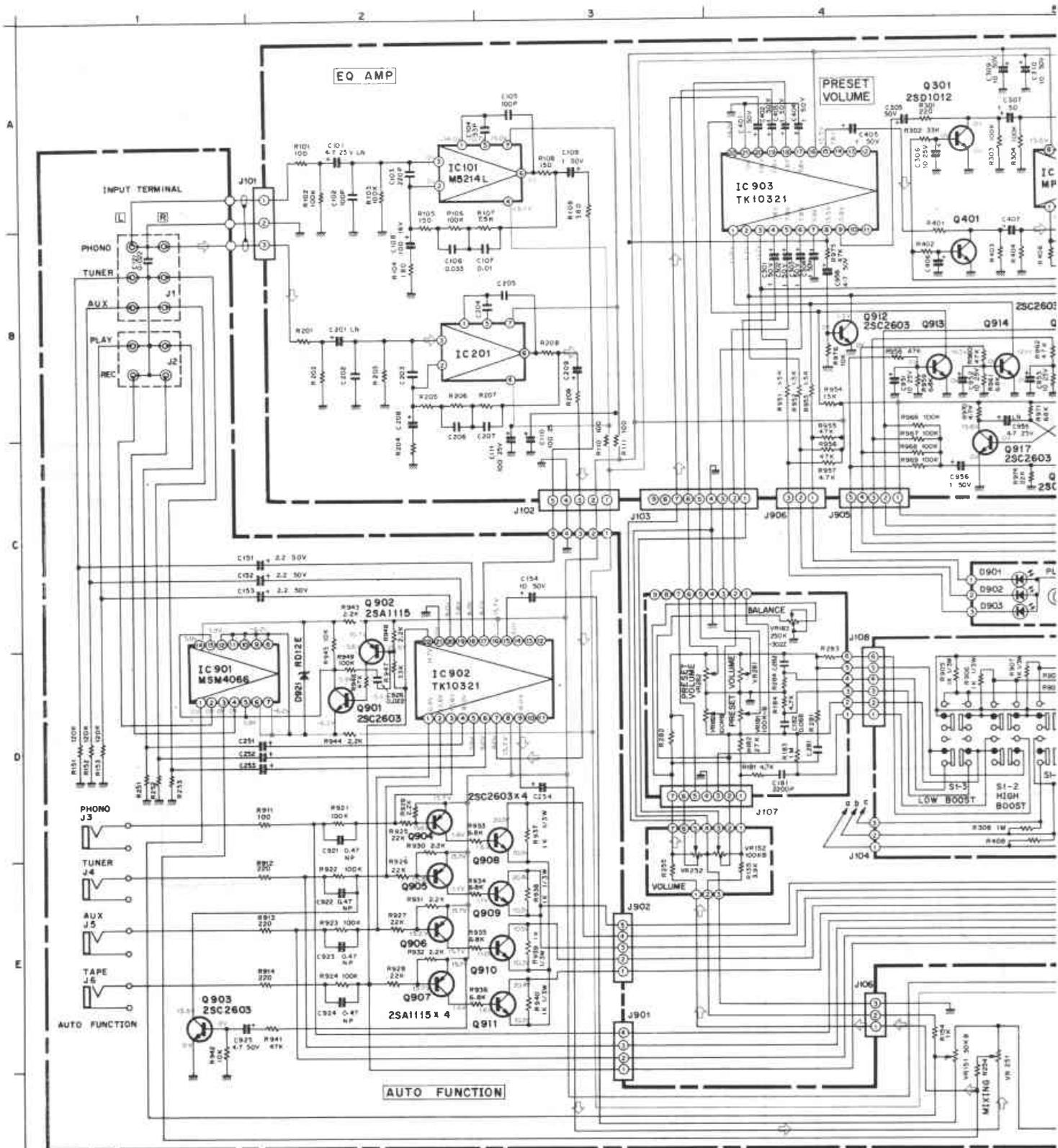


PRINTED CIRCUIT BOARDS





SCHEMATIC DIAGRAM

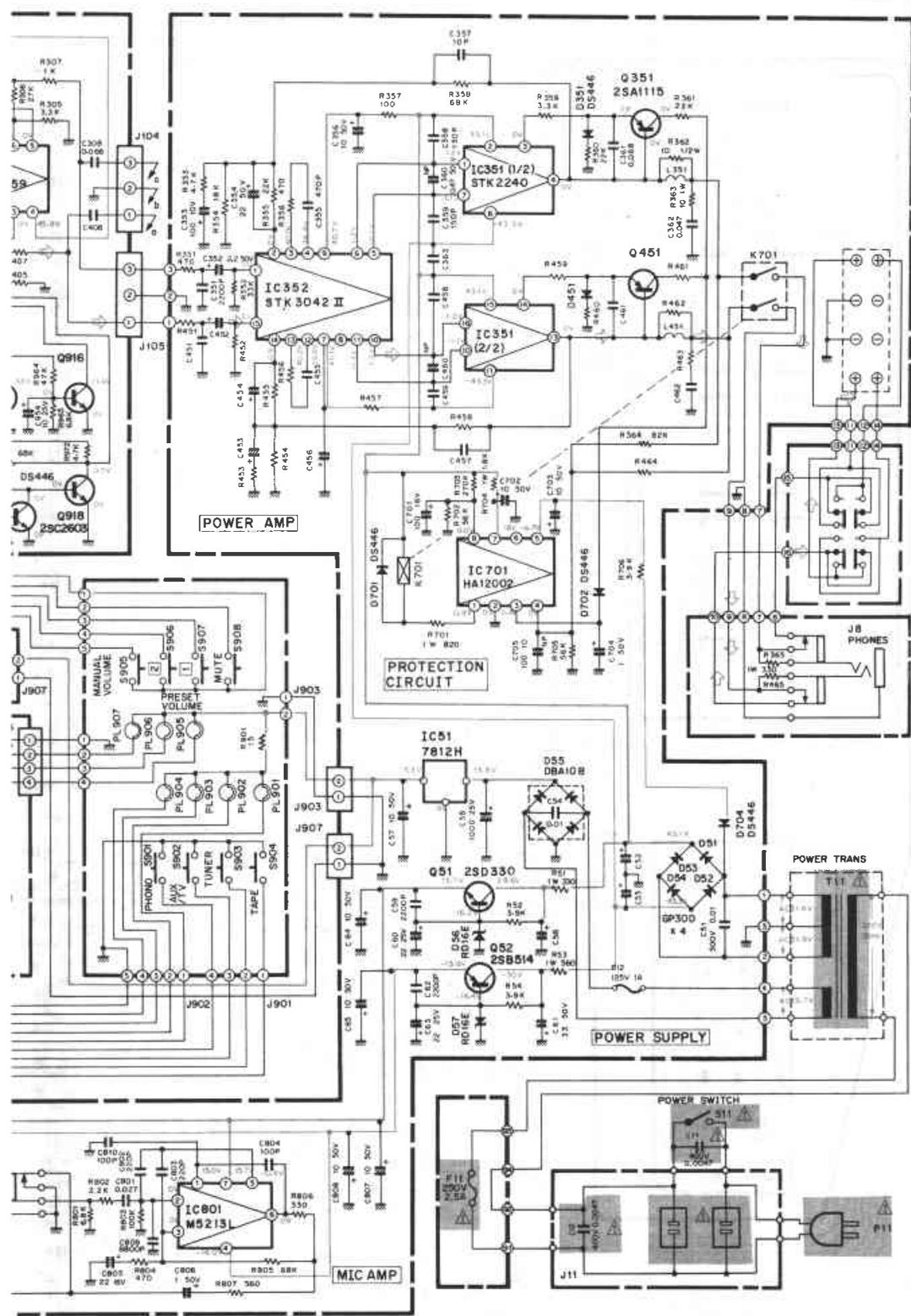


NOTES:

1. C and R unit
 C No symbol : μ F
 P symbol : μ F
 Capacitor without voltage display has pressure resistance of 50V.
 The NP is a Nonpolar Capacitors.
 R No symbol : Ω
 K symbol : k Ω
 M symbol : M Ω
 Resistance not designated is 1/4W, J(5%).

2.  This mark indicates the fuse resistor. Always use the designated service part at time of exchange.
3. Voltage for all parts are measured in terms of DC 1M Ω digital voltmeter.
4. Parts marked with  or  are vital for maintenance of safety and performance. Be sure only designated parts are used for replacement.
5. The circuit figure shown here is the basic circuit diagram. Please note that changes in dimensions may occur as a result of improvements, etc.

6 7 8



E

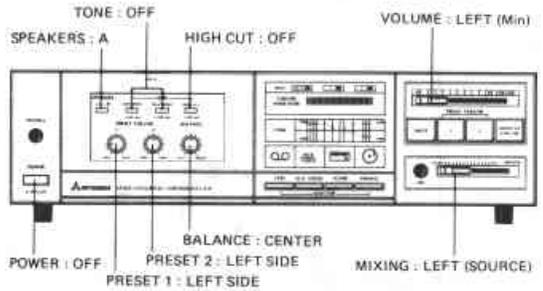
NOTE:  and  marks components on Parts list have special characteristics to keep safety performance of this unit. When replacing any of these parts, be sure to use only specified parts.

Symbol No.	Part No.	Description
Diodes		
D51	M07447321	GP30D
D52	M07447321	GP30D
D53	M07447321	GP30D
D54	M07447321	GP30D
D55	M05223320	DBA10B
D56	M07607322	RD16E-B3
D57	M07607322	RD16E-B3
D351	M07554320	DS446
D451	M07554320	DS446
D701	M07554320	DS446
D702	M07554320	DS446
D703	M07554320	DS446
D704	M07554320	DS446
D901	M07520326	SLR-54URC
D902	M07520326	SLR-54URC
D903	M07520326	SLR-54URC
D921	M05232328	RD12E-B3
D951	M07554320	DS446
ICs		
IC51	M07586310	MPC78M12H
IC101	M07446343	M5214L
IC201	M07446343	M5214L
IC301	M04172311	MPC4559C
IC352	M07554310	STK3042II → 108,100
IC351	M07607310	STK2240 → 204,100
IC701	M07447343	HA12002
IC801	M07388343	M5213L
IC901	M07445343	MSM4066
IC902	M07607311	TK10321
IC903	M07607311	TK10321
Transistors		
Q51	M07061304	2SD330
Q52	M07493303	2SB514
Q301	M07622300	2SD1012
Q351	M07390304	2SA1115
Q401	M07454303	2SD1012
Q451	M07390304	2SA1115
Q901	M07390303	2SC2603
Q902	M07390304	2SA1115
Q903	M07390303	2SC2603
Q904	M07390304	2SA1115
Q905	M07390304	2SA1115
Q906	M07390304	2SA1115
Q907	M07390304	2SA1115
Q908	M07390303	2SC2603
Q909	M07390303	2SC2603
Q910	M07390303	2SC2603
Q911	M07390303	2SC2603
Q912	M07390303	2SC2603
Q913	M07390303	2SC2603
Q914	M07390303	2SC2603
Q915	M07390303	2SC2603
Q916	M07390303	2SC2603
Q917	M07390303	2SC2603
Q918	M07390303	2SC2603
Q919	M07390303	2SC2603

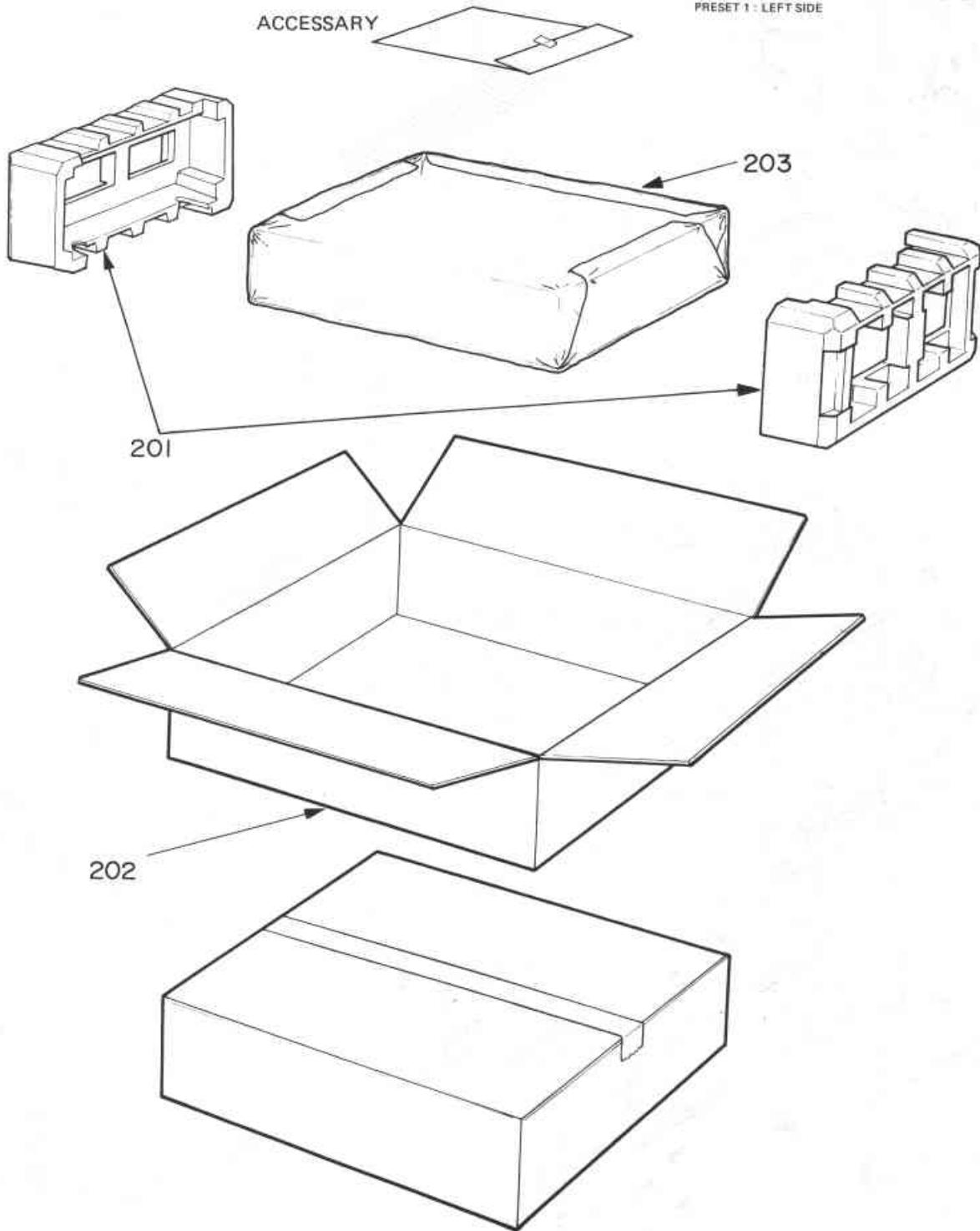
Symbol No.	Part No.	Description
Electrical Parts		
F11	M07329490	Fuse-2.5A-Semko 
J1	M07607480	Terminal Board (PHONO, TUNER, AUX)
J2	M04172480	Terminal Board (PLAY, REC)
J7	M05223475	Jack (MIC)
J8	M07607475	Jack (PHONES)
J9	M07461575	Terminal Board (SPEAKER)
K701	M07504465	Reray
PL901	M04172565	Lamp
PL902	M04172565	Lamp
PL903	M04172565	Lamp
PL904	M04172565	Lamp
PL905	M04172565	Lamp
PL906	M04172565	Lamp
PL907	M04172565	Lamp
PL908	M05225565	Lamp
S1-1~3	M07622355	SW-Push (TONE/BOOST)
S11	M04176355	SW-Push (POWER) 
S901	M07520454	SW-Push (PHONO)
S902	M07520454	SW-Push (AUX/VIDEO)
S903	M07520454	SW-Push (TUNER)
S904	M07520454	SW-Push (TAPE)
S905	M07520454	SW-Push (MANUAL VOLUME)
S906	M07520454	SW-Push (PRESET VOLUME 1)
S907	M07520454	SW-Push (PRESET VOLUME 2)
S908	M07520454	SW-Push (MUTE)
T11	M07623500	Trans-Power 
J11	M07535465	AC OUTLET 
VR151,	M07607415	VR-Slide-B50K (MIXING)
152		
VR181,	M07607356	VR-W-B100K (PRESET)
281		
VR182,	M07607356	VR-W-B100K (PRESET)
282		
VR183	M07607400	VR-STD-3 250K (BALANCE)
VR152,	M07607356	VR-Slide-B100K (VOLUME)
252		
C11	M07554430	C-Ceramic-400V 472M
C12	M07554430	C-Ceramic-400V 472M
C51	M07492360	C-Ceramic-500V 103M
C52	M07493360	C-Elect-50V 6800
C53	M07493360	C-Elect-50V 6800
F12	M07622450	Fuse-1A-UL
Packing		
201		Cushion Mold
202		Packing Box
203		Cover (for Packing)
	M07617496	Lead (Auto-Function 1M)

PACKING INSTRUCTIONS

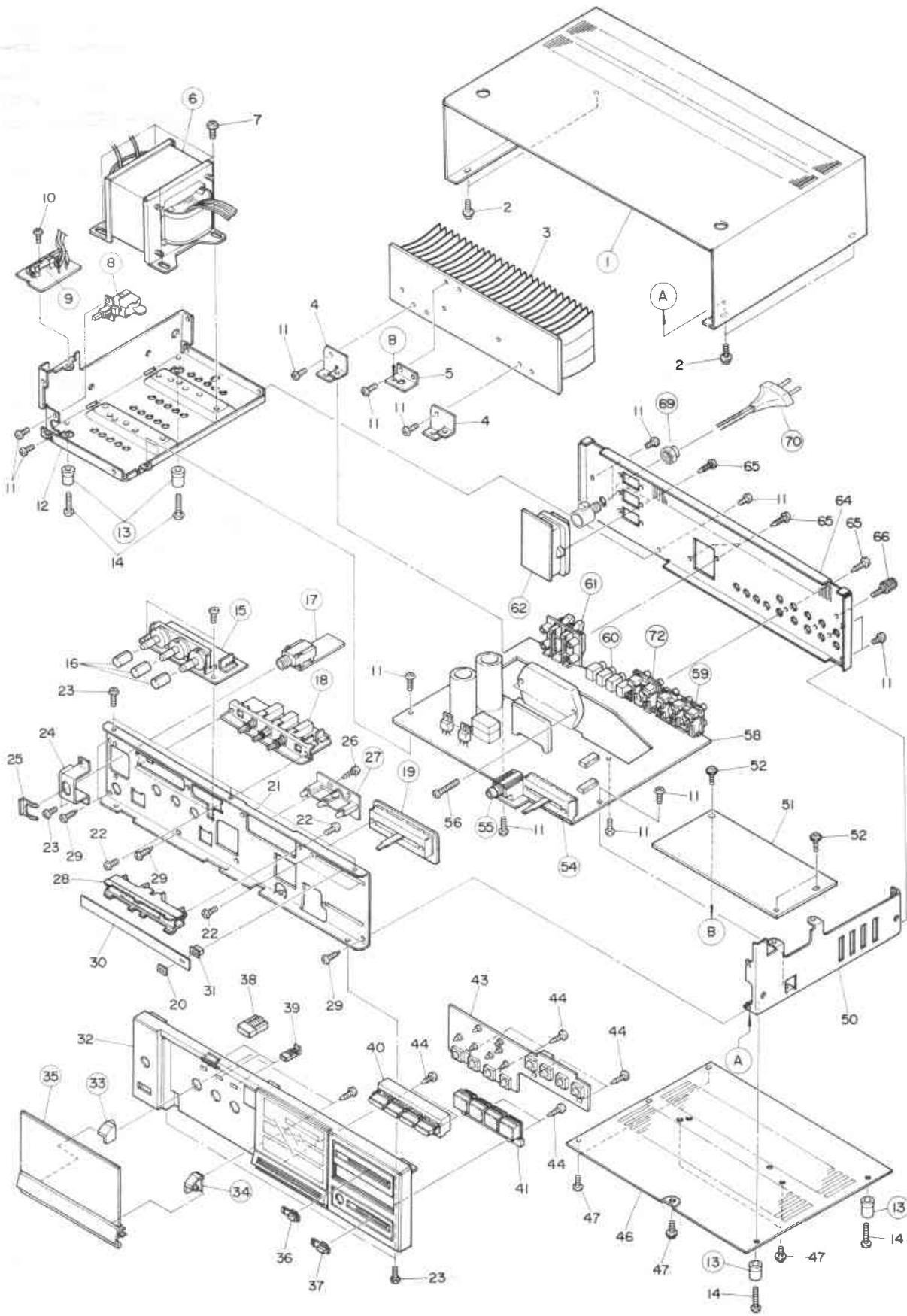
CONTROLS SETTING



ACCESSORY



EXPLODED VIEW



PARTS LIST

Symbol No.	Part No.	Description
1		Case (Top)
2		T-Screw 2-3 x 16
3		Radiator
4		Holder-L
5		Holder-L
6	M07623500	Trans-Power
7		T-Screw 2-4 x 6
8	M04176355	SW Push (POWER)
9	M07329490	Fuse-2.5A-Semko
10		Screw M3 x 6
11		Screw-B M3 x 6
12		Holder Z
13		Leg
14		T-Screw 2-3 x 16
15	M07607400	VR-STD-3 (PRESET VOLUME / BALANCE)
16		Knob(PRESET VOLUME/BALANCE)
17	M07607475	Jack (PHONES)
18	M07622355	SW-Push (TONE/BOOST)
19	M07607356	VR-Slide B100K (VOLUME)
20		Sheet-Gum
21		Panel-Front
22		Screw-B M3 x 6
23		Screw-B M3 x 8
24		Holder-U
25		Holder (PHONES)
26		T-Screw 1-3 x 8
27	M04172565	Lamp (VOLUME INDICATOR)
28		Holder Lamp
29		Screw 3 x 6
30		Bright Board
31		Holder
32		Panel Ass'y
33		Holder
34		Holder
35	M07622136	Cover Ass'y
36		Knob (VOLUME)
37		Knob (MIXING)
38		Knob (POWER)
39		Knob (TONE BOOST)
40		Knob (SELECTOR)
41		Knob (PRESET/MUTE/ MANUAL VOLUME)
42		—
43		PCB Ass'y (LAMP)
44		Screw 3 x 10
45		—
46		Base
47		Screw 3 x 6
48		—
49		—
50		Holder-U
51		Base
52		Screw-Metal 2-3 x 8
53		—
54	M07607415	VR-Slide-B50K (MIXING)
55	M05223475	Jack (MIC)
56		Screw
57		—
58		PCB Ass'y
59	M07607480	Terminal Board (PHONO/AUX/ TUNER)
60	M05237475	Jack (AUTO SELECTOR)

Symbol No.	Part No.	Description
61	M07461575	Terminal Board (SPEAKER)
62	M07535465	Socket (OUTLET)
63		—
64		Panel Back
65		Screw 3 x 10
66		Terminal Board(TURNTABLE EARTH)
67		—
68		—
69	M07535060	Clamper
70	M07618490	Power Cord
71		—
72	M04172480	Terminal Board (PLAY, REC)