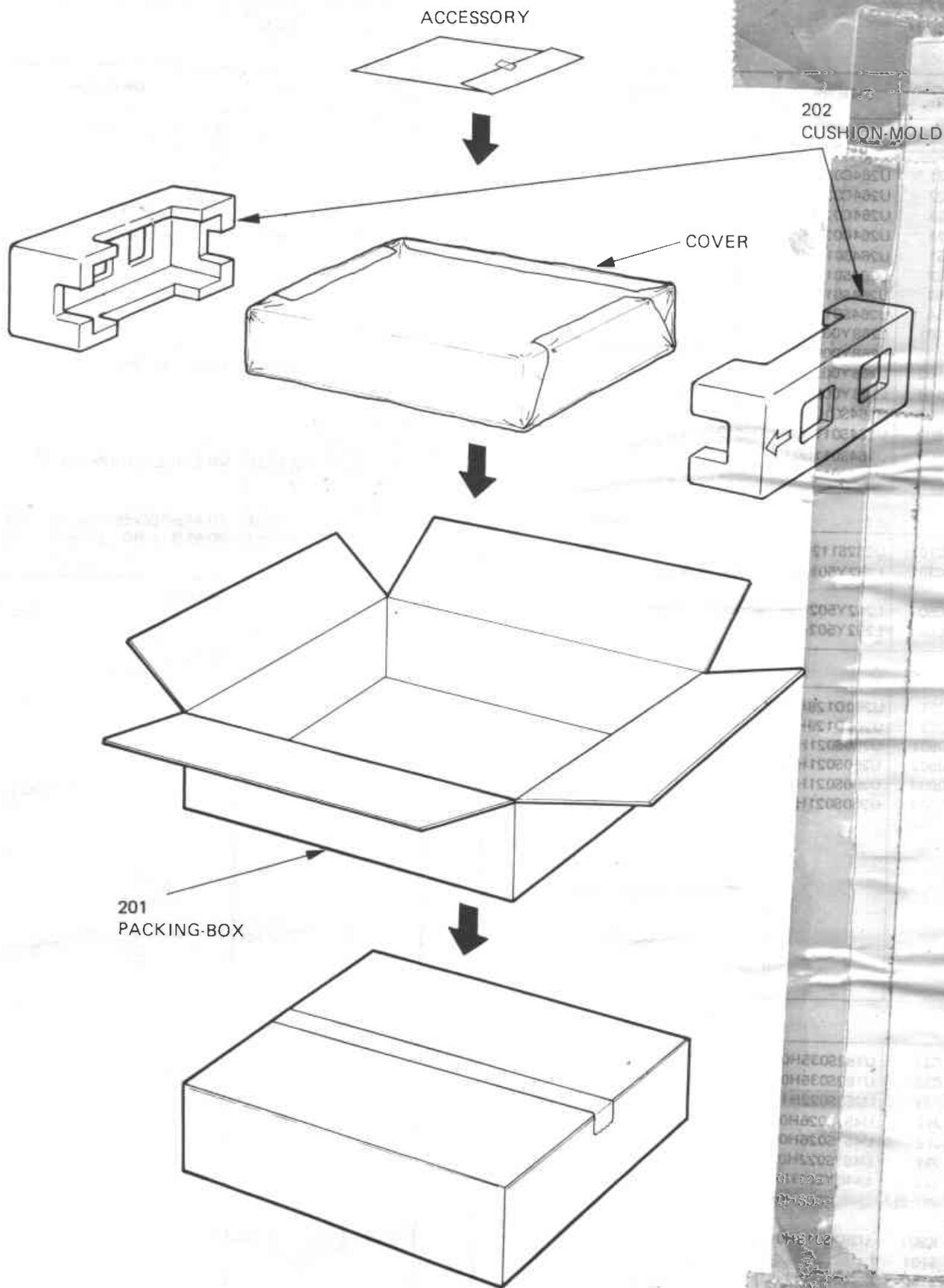


PACKING INSTRUCTION



PARTS LIST

NOTE: ⚠ and [REDACTED] 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.	Parts No.	Description
Diodes		
D21	U264C025H02	GP20
D22	U264C025H02	GP20
D23	U264C025H02	GP20
D24	U264C025H02	GP20
D51	U264S011H01	DS442
D52	U264S011H01	DS442
D53	U264S013H62	RD16E
D54	U264S013H62	RD16E
D101	L268Y005H01	LT3233G (LED:GRN)
D102	L268Y005H01	LT3233G (LED:GRN)
D103	L268Y005H01	LT3233G (LED:GRN)
D104	L268Y005H01	LT3233G (LED:GRN)
D801	U264S012H01	DS446
D802	U264S011H01	DS442
D803	U264S011H01	DS442
D804	U264S011H01	DS442
ICs		
IC101	U262S112H01	M5218L (PHONO EQ-AMP.)
IC301	L262Y501H01	STK4141-MKII (POWER AMP.)
IC501	L262Y502H01	M5226P (GRAPHIC EQ-AMP.)
IC601	L262Y502H01	M5226P (GRAPHIC EQ-AMP.)
Transistors		
Q51	U260D128H03	2SC1735E
Q52	U260D129H03	2SA850E
Q801	U260S021H06	2SC2603E,F
Q802	U260S021H06	2SC2603E,F
Q803	U260S021H06	2SC2603E,F
Q804	U260S021H07	2SC2603F,G
Electrical Parts		
C31	U182S035H01	C-ELECT 40V 4700
C32	U182S035H01	C-ELECT 40V 4700
F11	U283S022H16	FUSE T800 mA SEMKO ⚠
J11	U451S026H03	JACK (INPUT)
J12	U451S026H02	JACK (TAPE)
J31	U451S022H01	JACK (PHONES)
J32	L440Y501H01	TERMINAL BOARD (SPEAKERS)
J91, J92	U449S008H01	SOCKET (AC OUTLETS) ⚠
K801	U287S018H01	RELAY
S101		
S102	L432Y506H02	SW-PUSH (SELECTOR)
S103		
S104		

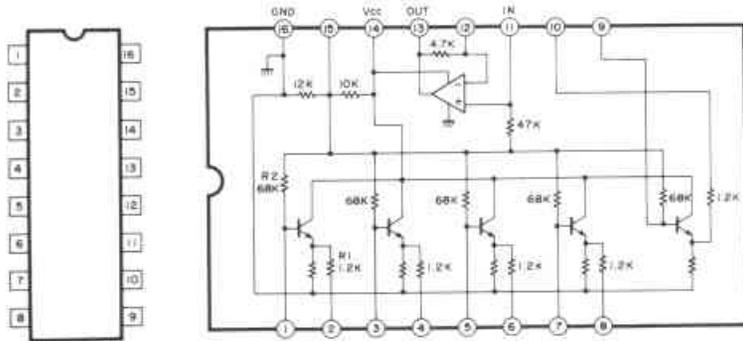
Symbol No.	Parts No.	Description
S105	L432Y507H21	SW-PUSH (LOUDNESS)
S107	L432Y507H21	SW-PUSH (SUBSONIC)
S11	U432S126H02	SW-PUSH (POWER) ⚠
S301	L432Y512H01	SW-PUSH (SPEAKER-A)
S302	L432Y512H01	SW-PUSH (SPEAKER-B)
VR101	L131Y503H01	VR-SLIDE-WB250K (VOLUME)
VR201	L131Y502H01	VR-SLIDE-SB250K (BALANCE)
VR102	L131Y502H01	VR-SLIDE-SB250K (BALANCE)
VR501		
VR502		
VR503	L131Y501H01	VR-SLIDE (GRAPHIC EQ)
VR504		
VR505		
VR601		
VR602		
VR603	L131Y501H01	VR-SLIDE (GRAPHIC EQ)
VR604		
VR605		
	L350Y504H01	TRANS-POWER ⚠
	U242C809H14	POWER CORD ⚠
Packing		
201	L800B504H13	Packing Box
202	L813B504H02	Cushion-Mold
	L871B501H53	Instruction Booklet

MECHANICAL PARTS LIST

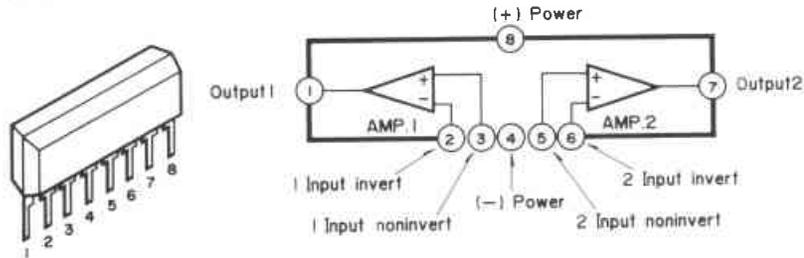
Symbol No.	Part No.	Description
1		CASE (TOP)
2		SCREW METAL 3 x 6
3		PCB-ASSY
4	L131Y501H01	VR-SLIDE
5		T-SCREW T1-3 x 10
6	L131Y502H02	VR-SLIDE
7	L131Y503H01	VR-SLIDE
8	L268Y005H01	LED LT3233G
9		HOLDER
10		ORNAMENT
11		ORNAMENT
12	L704D528H01	KNOB-SLIDE (BALANCE)
13	L704D526H01	KNOB-SLIDE (VOLUME)
14		SPRING
15	L704C506H01	KNOB-POWER
16	L702B010G01	FRONT PANEL ASSY
17		SPRING
18		LINK
19		BASE
20		PCB-ASSY
21	U182S035H01	C-ELECT 40V 4700
22	U287S018H01	RELAY
23		PCB-ASSY
24	L432Y512H01	SW-PUSH (SPEAKER)
25	L704D524H01	KNOB
26	L432Y507H21	SW-PUSH (LOWDNSS/FILTER)
27	U451S022H01	JACK (PHONE)
28		PCB-ASSY
29	U432S126H02	SW-POWER 
30		LINK
31	U449S008H01	SOCKET 
32		CLAMPER
33	U242C809H14	POWER-CORD 
34		CABINET
35		TERMINAL-SCREW
36		SCREW METAL 3 x 10
37		LEG
38	L350Y504H01	TRANS POWER 
39		RADIATOR
40		PCB ASS'Y
41		T-SCREW T2-3 x 14
42		TERMINAL-Lag
43		SCREW B M3 x 6
44		SCREW B M2 x 3
45	L704C505H01	Knob (PHONO)
46	L704C505H11	Knob (CD/AUX)
47	L704C505H21	Knob (TUNER)
48	L704C505H31	Knob (TAPE)
49		WASHER
50		SCREW B M4 x 5
51		T-SCREW T1-3 x 20

INTERNAL DIAGRAMS AND PIN OUT OF INTEGRATED CIRCUITS

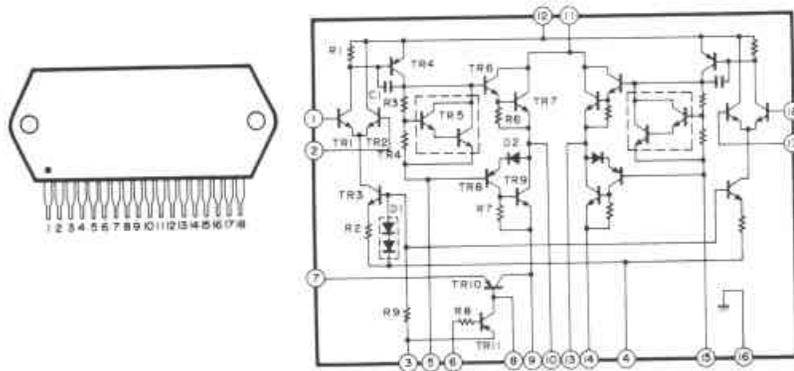
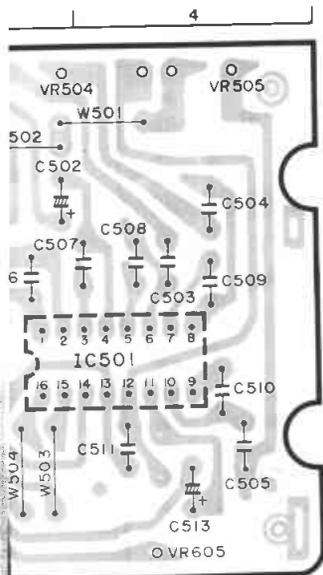
M5226P (GRAPHIC EQ AMP)



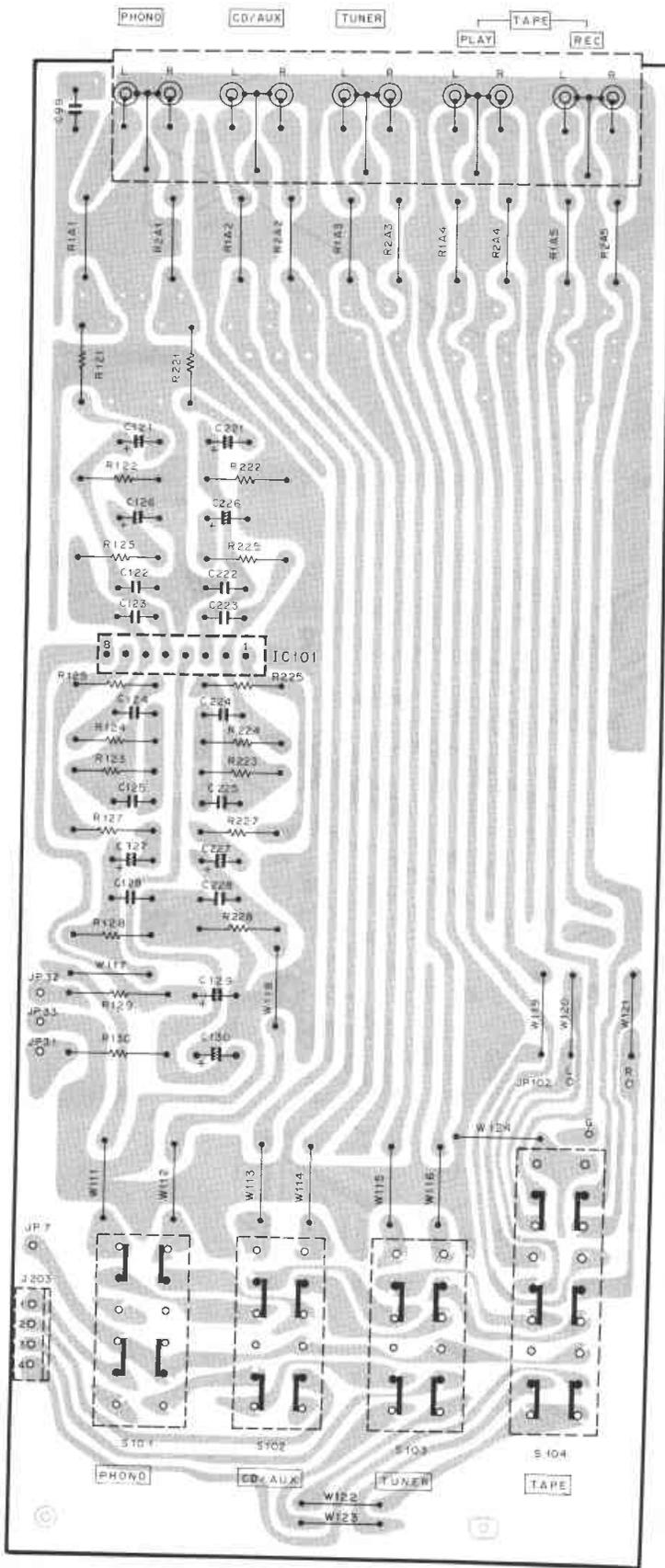
M5218L (PHONO EQ AMP)



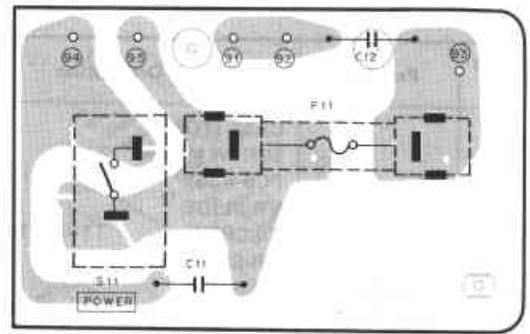
STK4141-MKII



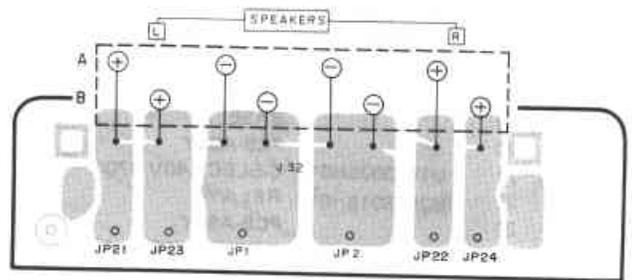
PHONO EQ P.C.B.



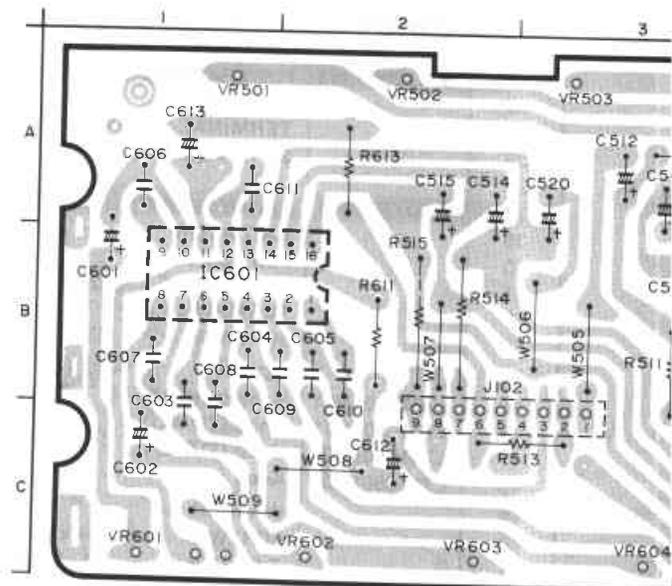
POWER SWITCH P.C.B.



TERMINAL P.C.B.

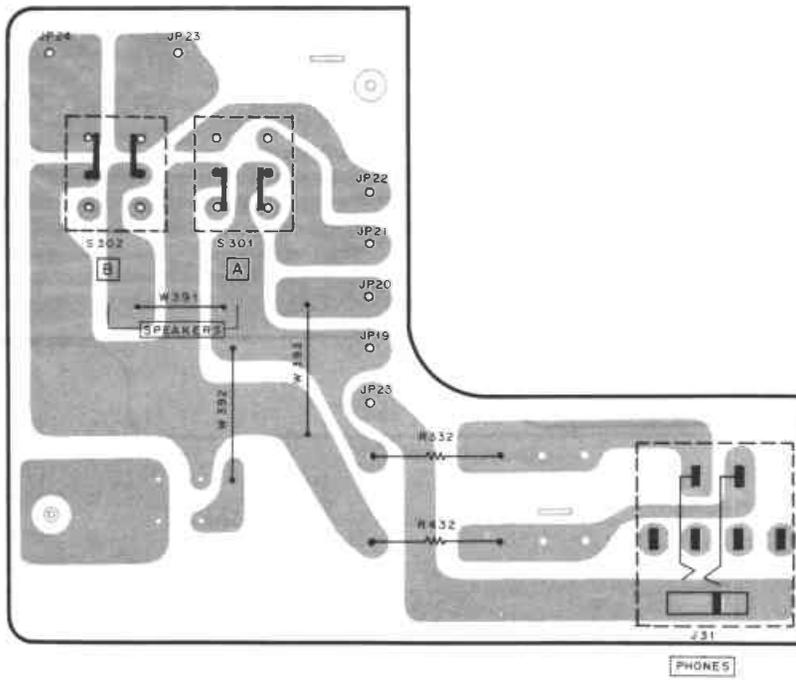
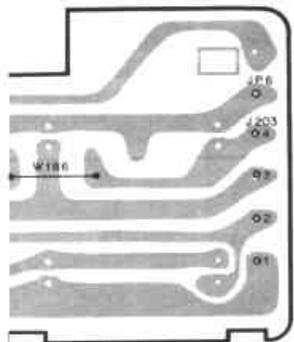


GRAPHIC EQ P.C.B.

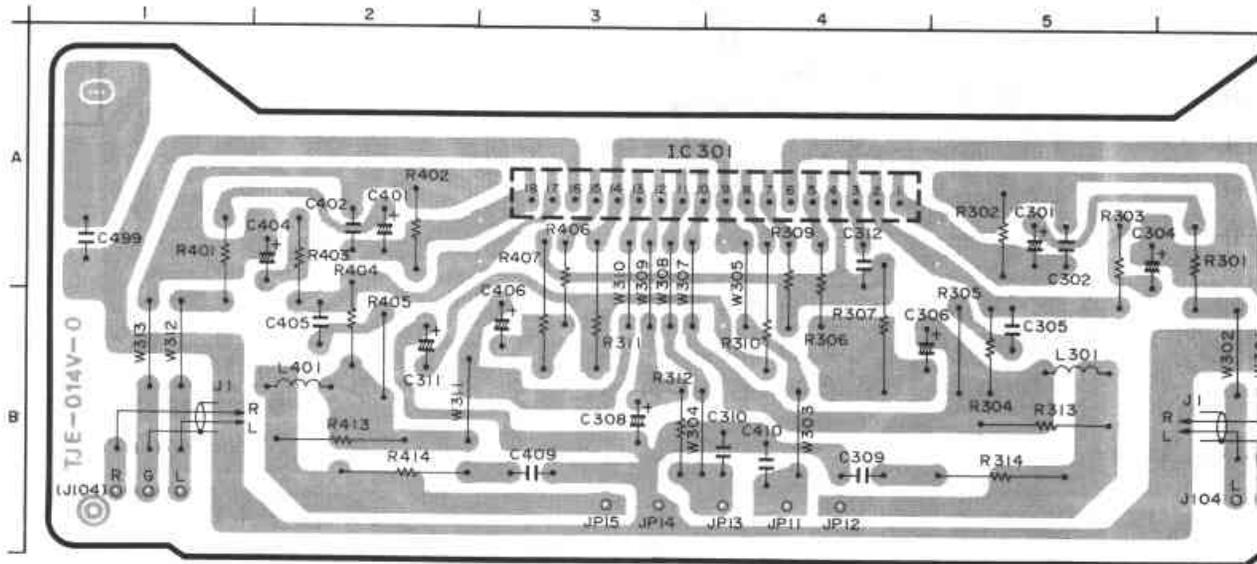




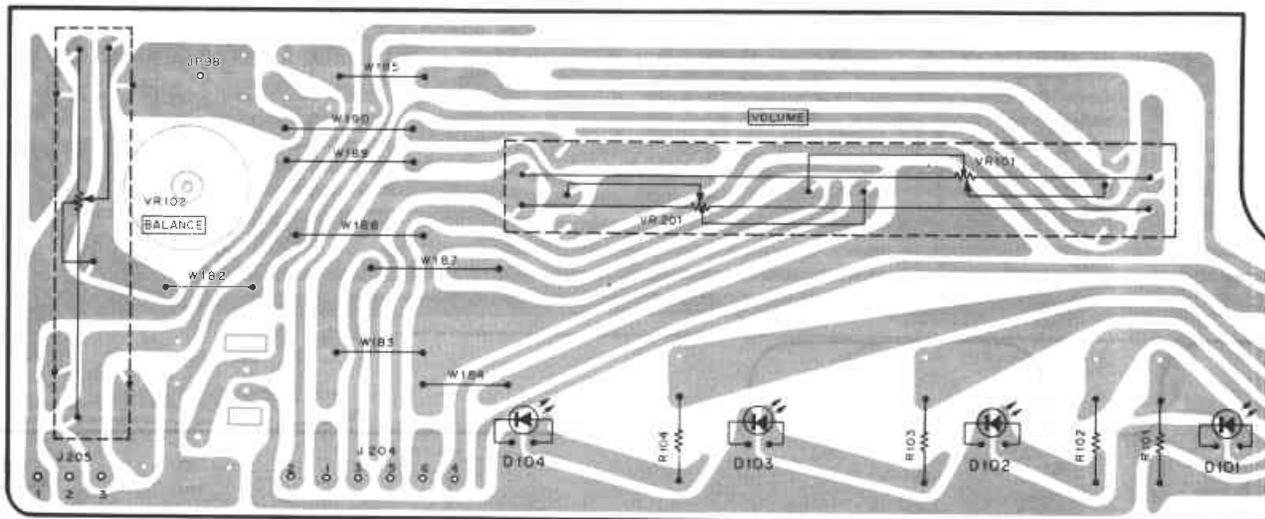
HEADPHONE P.C.B.



POWER AMP. P.C.B.



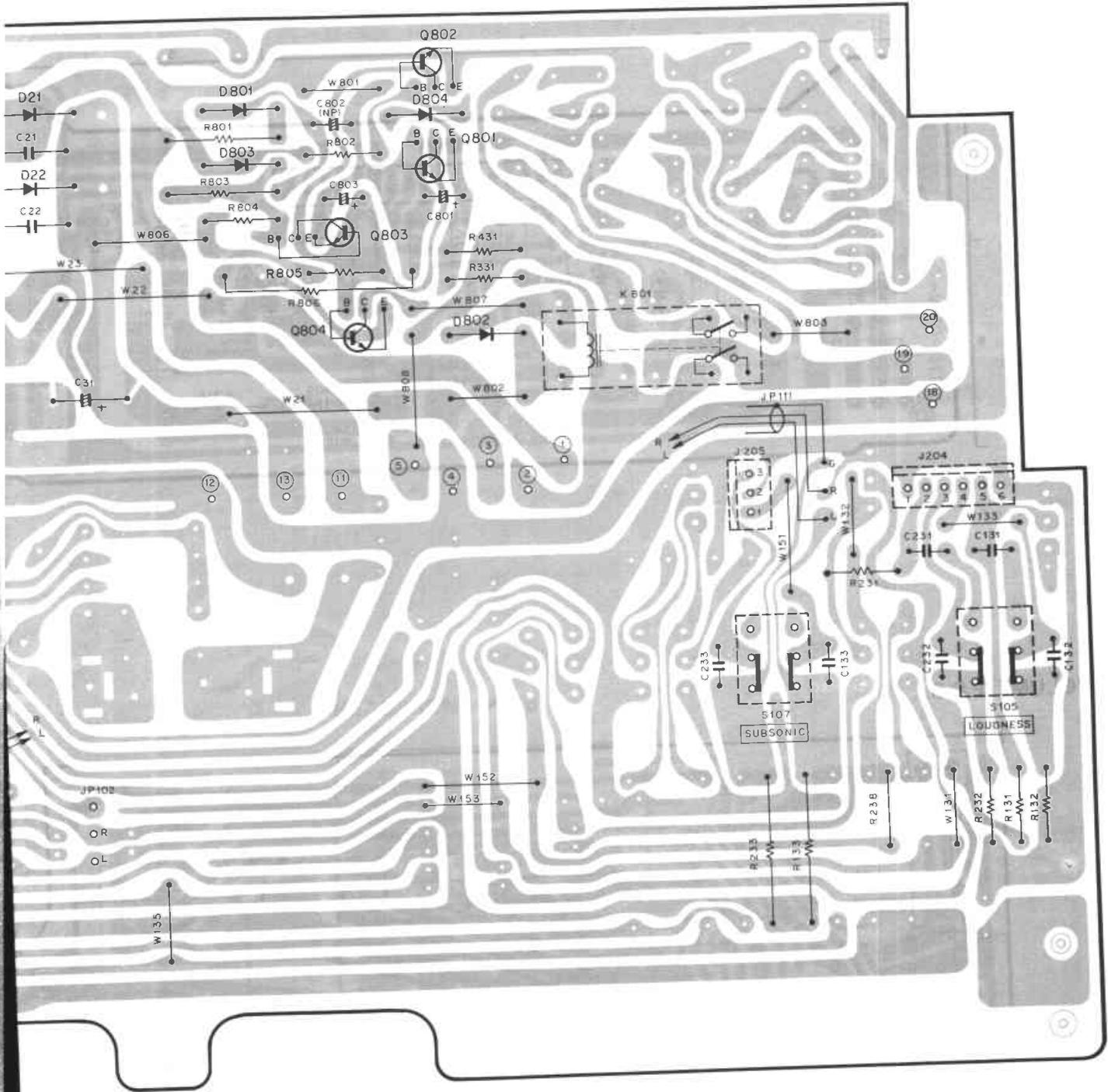
VOLUME P.C.B.



5

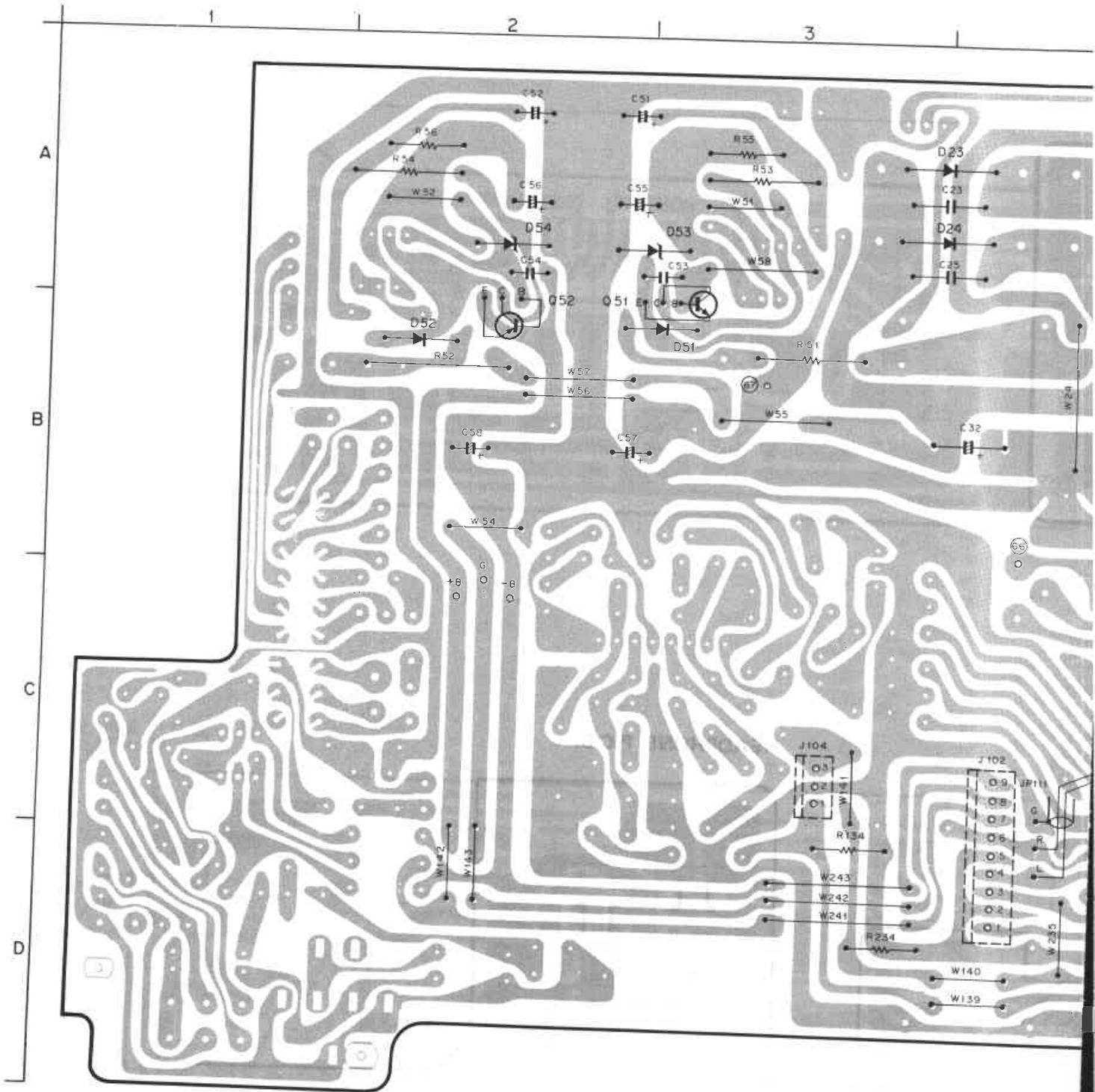
6

7

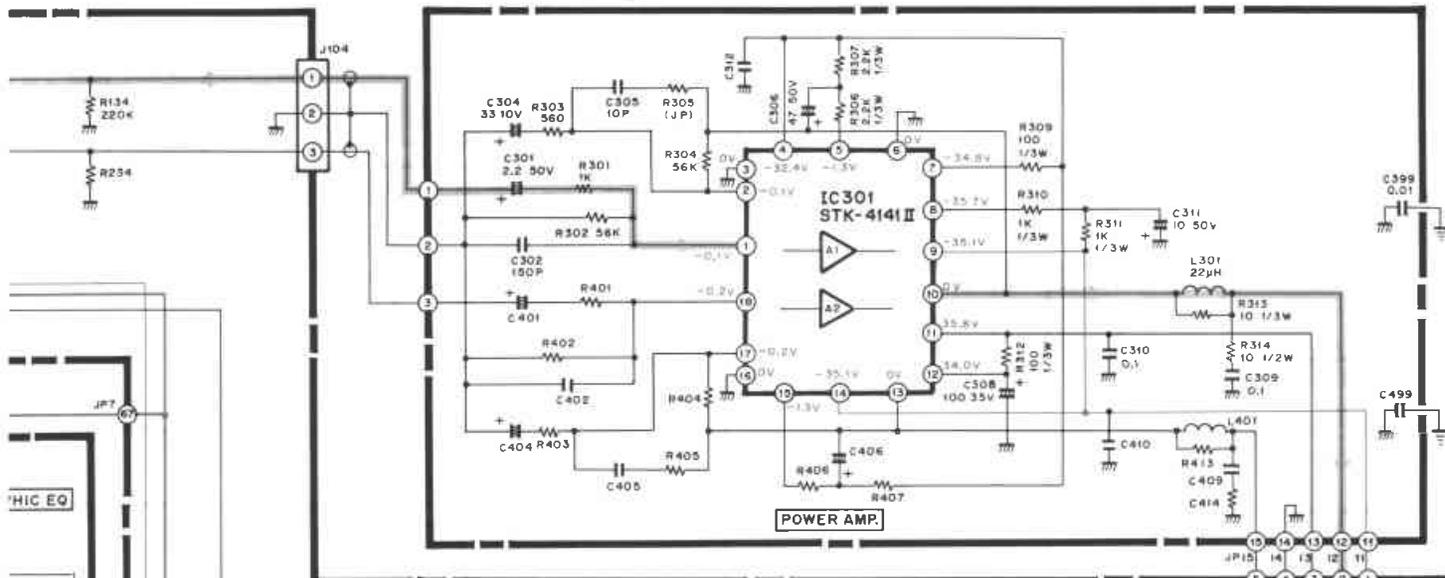


PRINTED CIRCUIT BOARD

MAIN P.C.B.



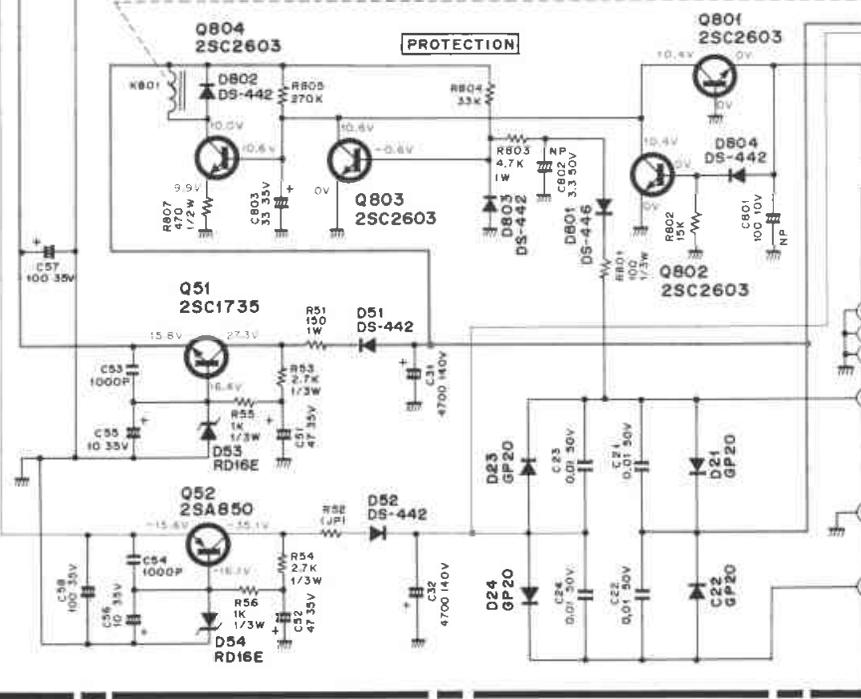
POWER AMP. P.C.B.



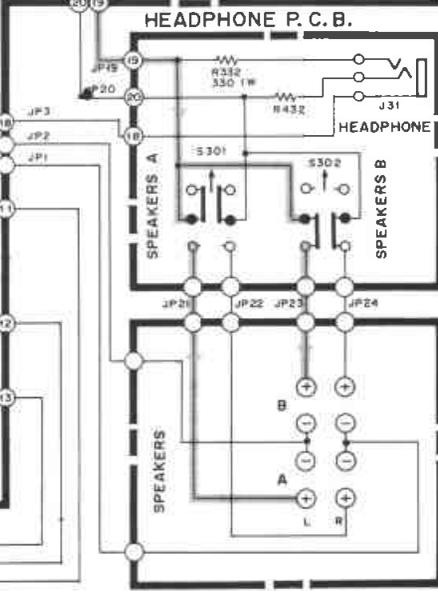
HIC EQ

4 VR605
B 100K-8
z 15 KHZ

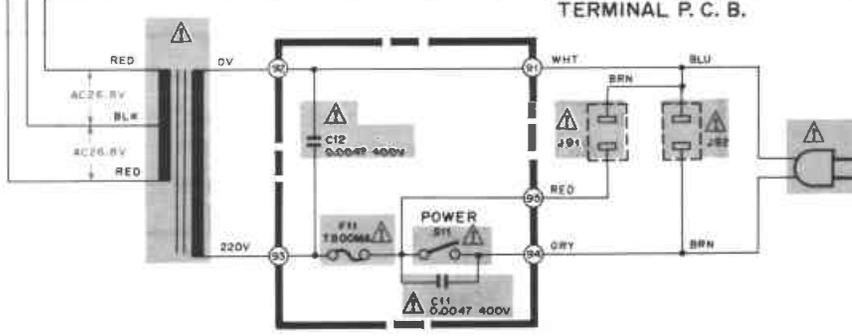
PROTECTION



HEADPHONE P.C.B.

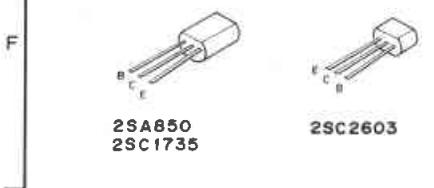
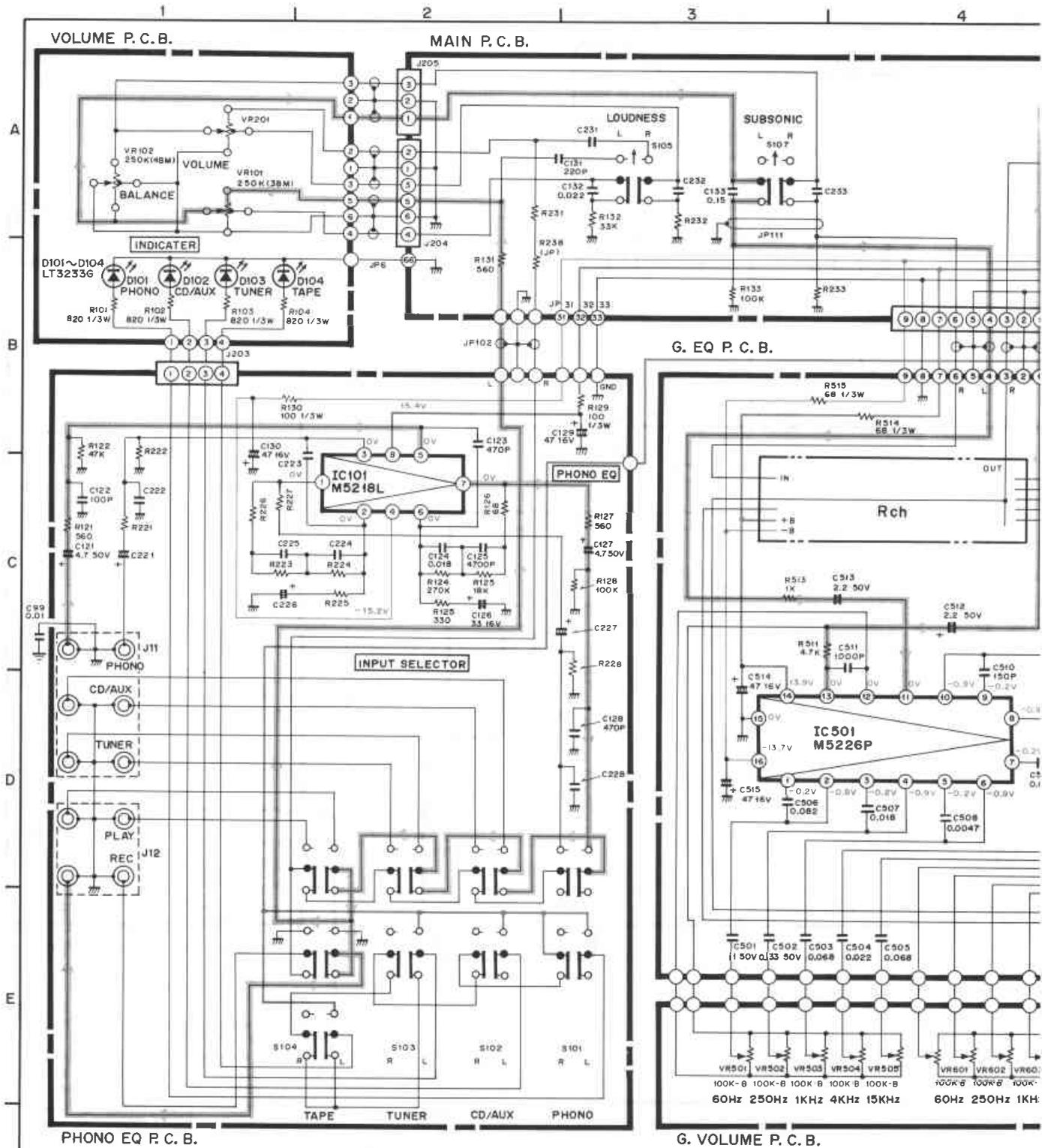


TERMINAL P.C.B.



If components have special characteristics to ensure
init. When replacing any of these parts, be sure to
ed on the parts list.
the basic diagram of the set, values of component
ge without notice for improvement.

SCHMATIC DIAGRAM

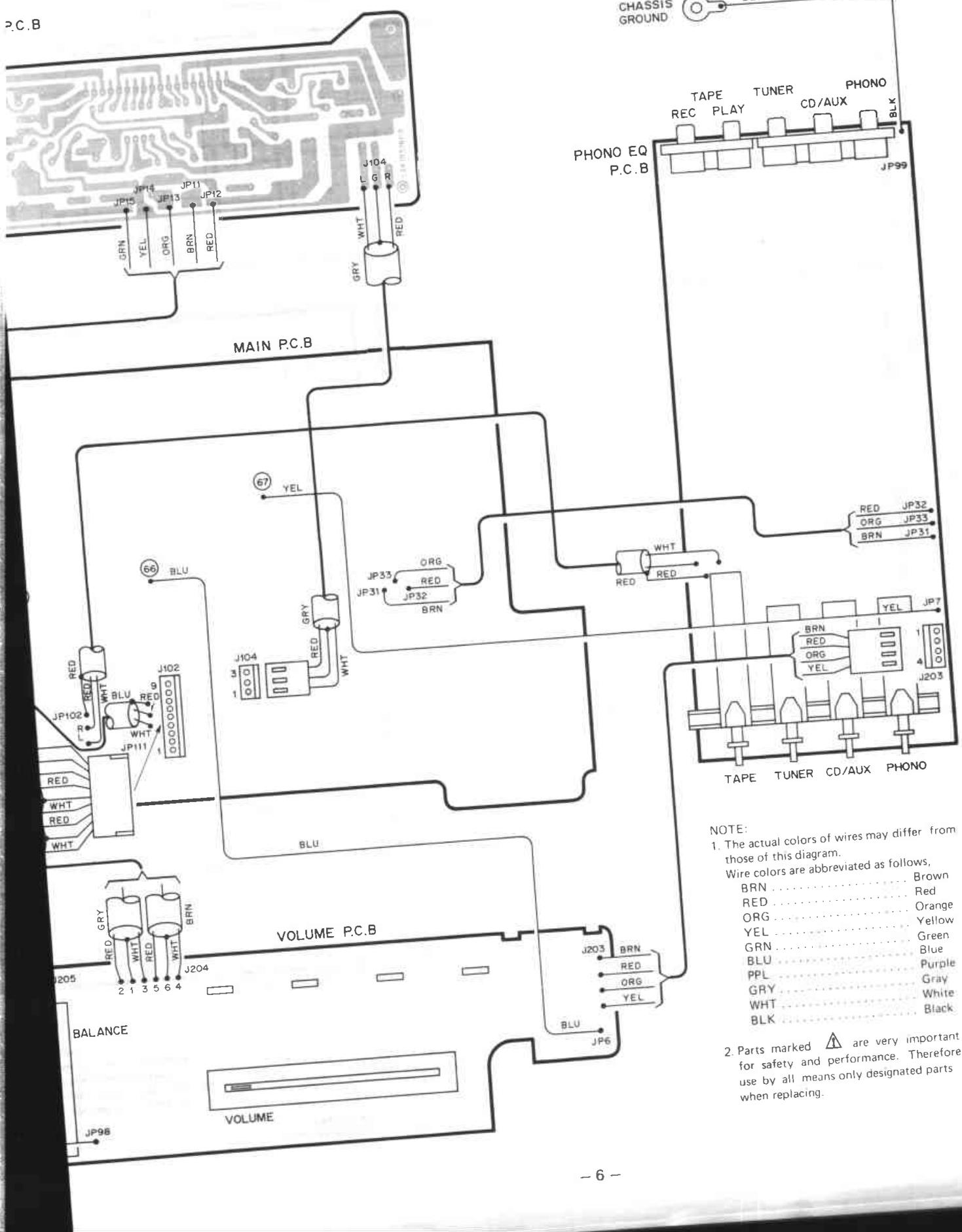


NOTE:

- Units of C and R are as follows,

Capacitors	: non-symbol	μ F
	: P-symbol	pF
Resistors	: non-symbol	Ω
	: K-symbol	K Ω
	: M-symbol	M Ω
- All resistors are carbon 1/4W unless otherwise specified.
- The voltages are values measured under a non-signal condition.
- \triangle and \square safety performance of use only replacements:
- Since this schematic s parts etc. are subject to

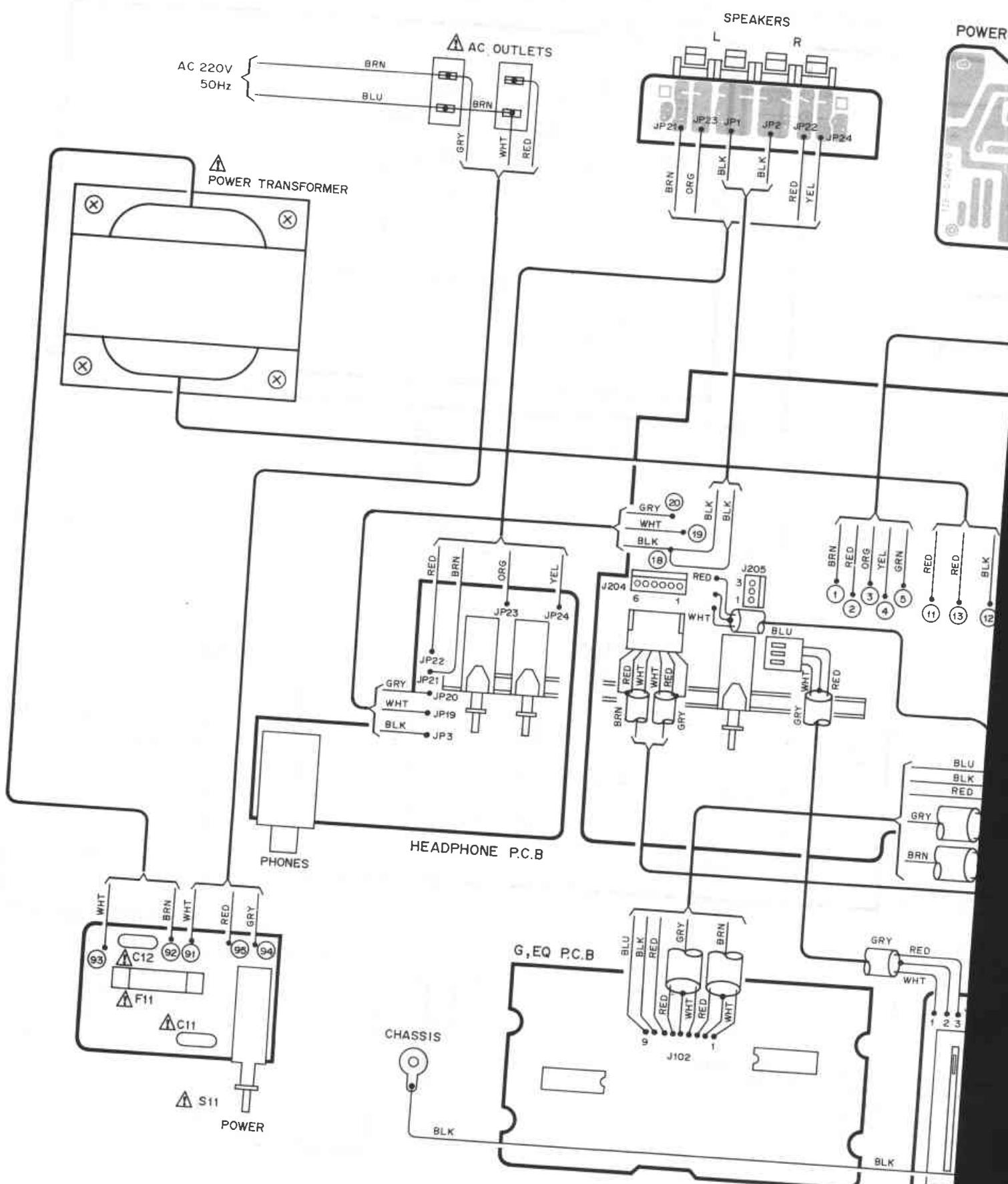
P.C.B



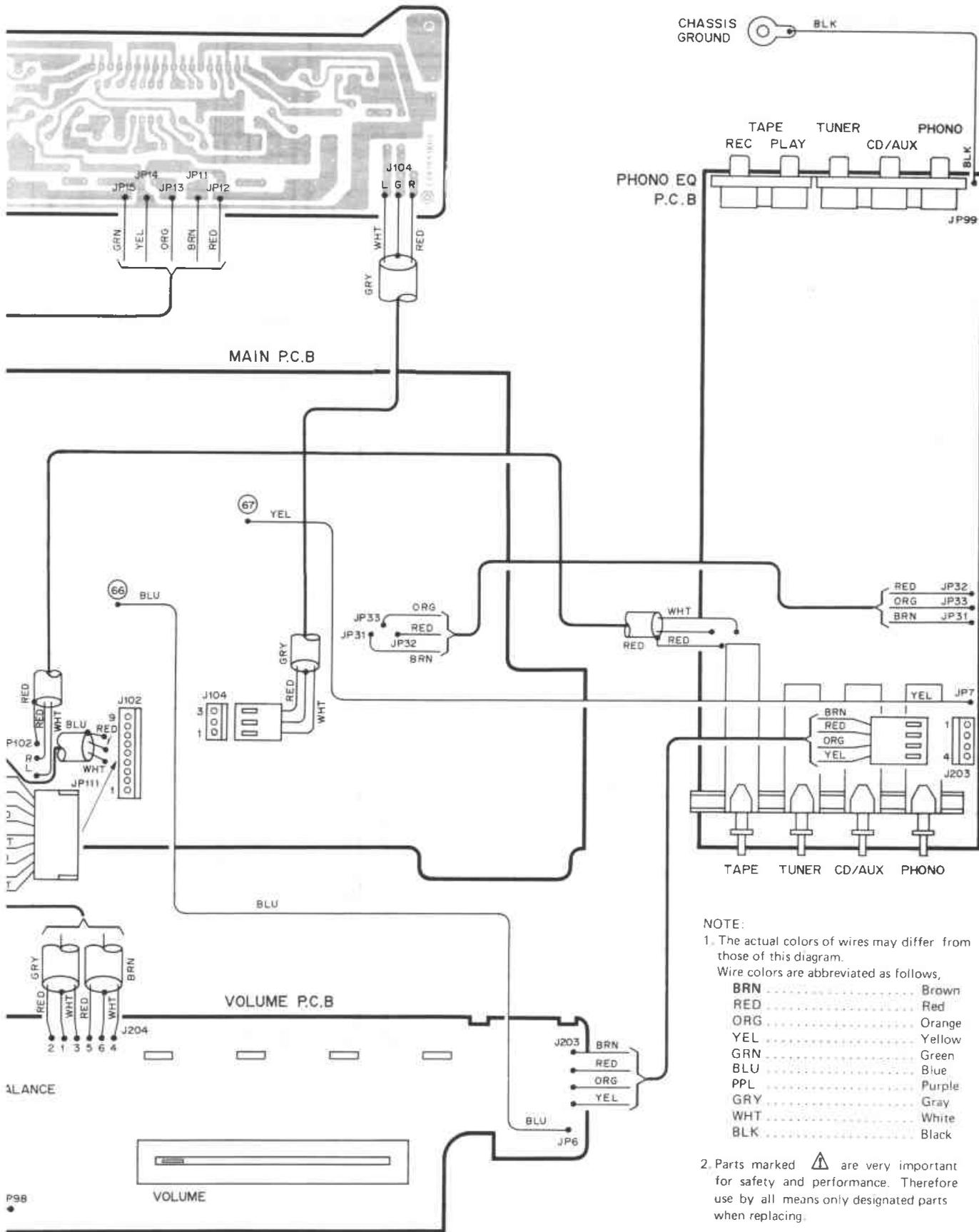
- NOTE:
- The actual colors of wires may differ from those of this diagram. Wire colors are abbreviated as follows.
- | | | |
|-----|-------|--------|
| BRN | ..... | Brown |
| RED | ..... | Red |
| ORG | ..... | Orange |
| YEL | ..... | Yellow |
| GRN | ..... | Green |
| BLU | ..... | Blue |
| PPL | ..... | Purple |
| GRY | ..... | Gray |
| WHT | ..... | White |
| BLK | ..... | Black |

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

WIRING DIAGRAM



P.C.B

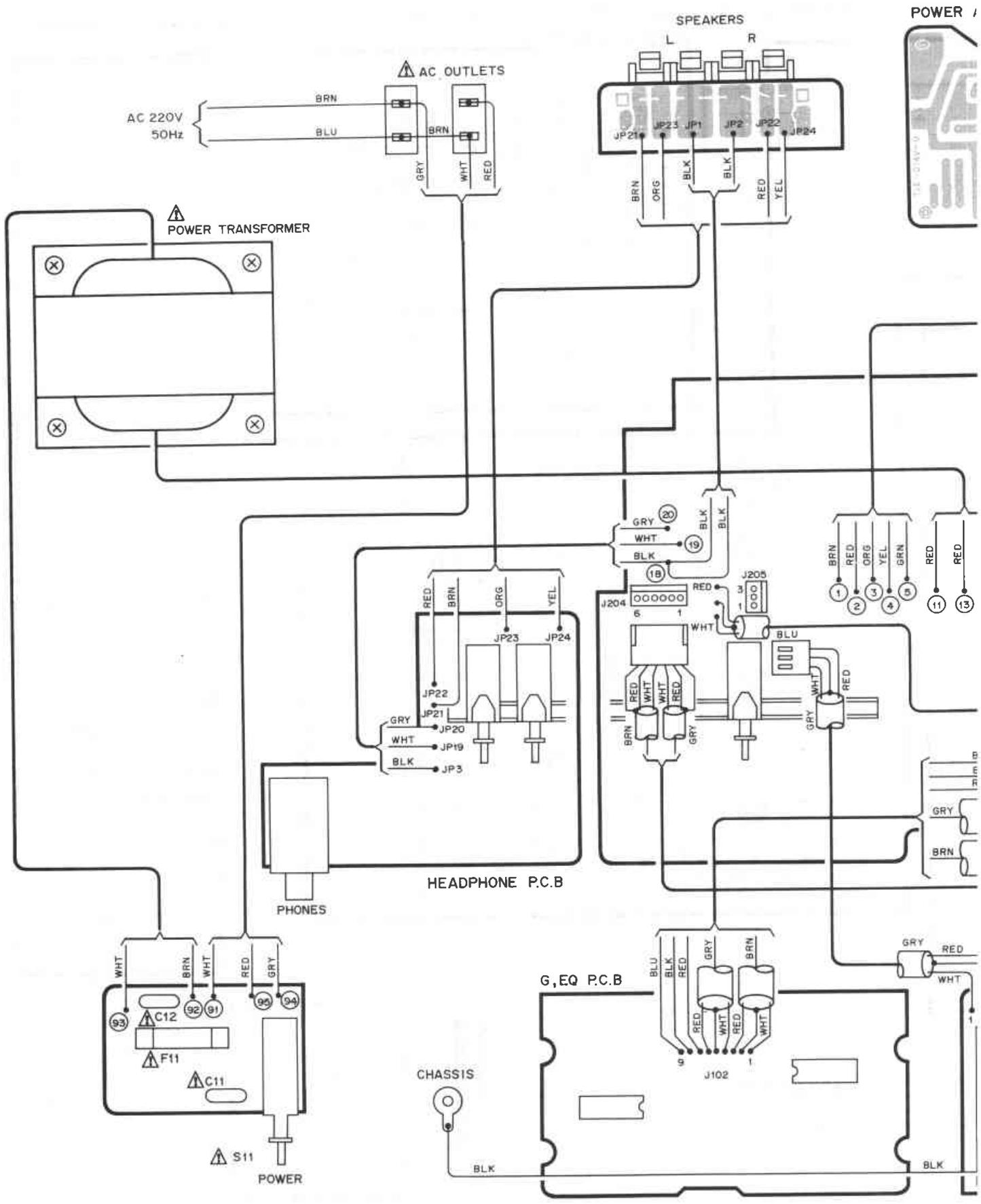


- NOTE:
- The actual colors of wires may differ from those of this diagram.
Wire colors are abbreviated as follows,

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

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

WIRING DIAGRAM



DISASSEMBLY PROCEDURES

1. Removal of Top and Bottom Cover

- 1) Remove 7 top cover fixing screws (1) as shown in Fig. 1.
- 2) Pull back the top cover to remove.
- 3) Remove 4 screws (2) as shown in Fig. 1 to detach the bottom cover.

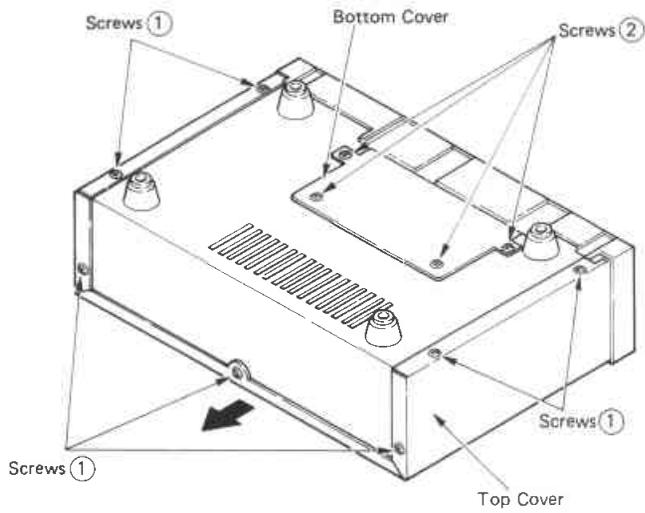


Fig. 1

2. Removal of Front Panel

- 1) Remove the 4 screws (3) located on both sides of the front panel as well the 5 screws (4) located on the bottom panel as shown in Fig.2.
- 2) The front panel will come off by removing the earth wire connect from the VOLUME P.C.B. to the MAIN P.C.B.

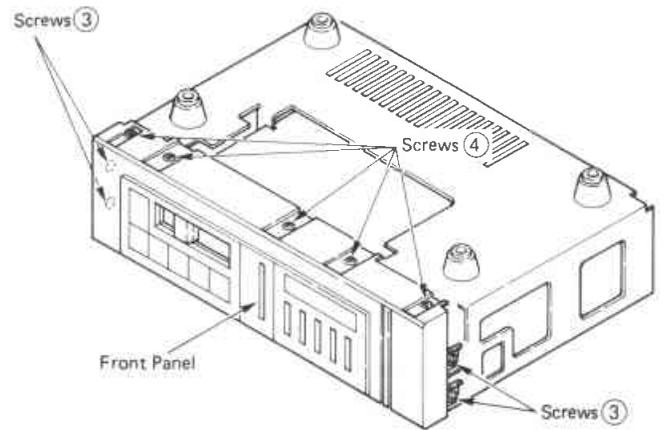
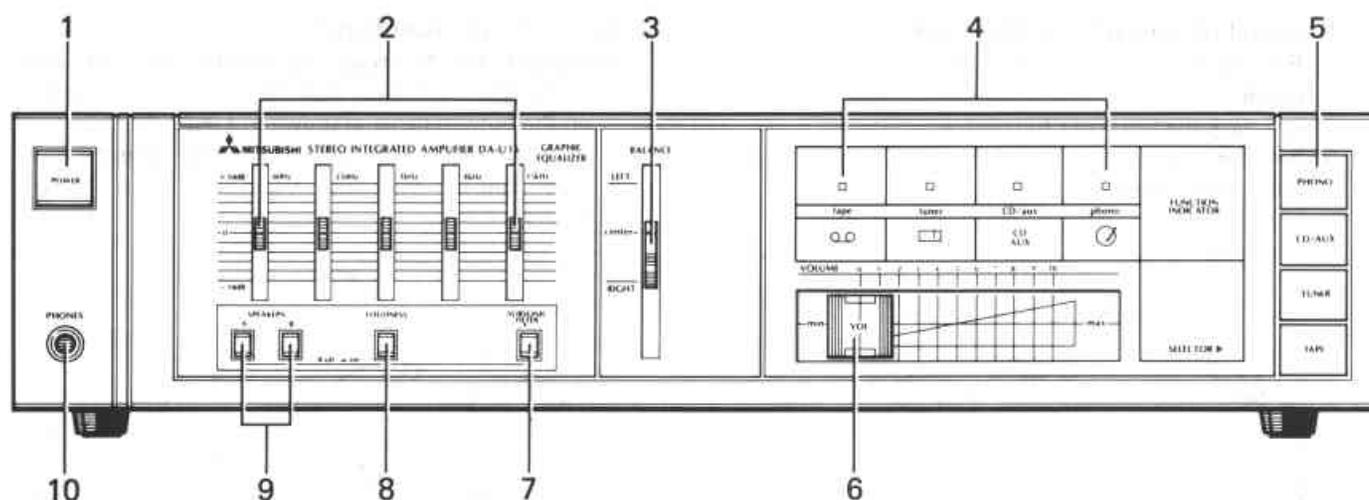


Fig. 2

FRONT PANEL TERMINOLOGY AND FUNCTIONS

**1. POWER (Power Switch)**

This switch is for turning this unit on and off.

2. GRAPHIC EQUALIZER

The graphic equalizer adjusts the quality of the played-back sound per frequency. Your own creation of sound will be possible in accordance with the music and room conditions.

3. BALANCE (Balance Control)

This control adjusts the balance between the two channels. The sound image is normally balanced at the centre, shifted to the right side when this control is moved to the right, and to the left side when moved to the left. Adjust the control to match the position of the speaker systems and your listening position.

4. SELECTOR INDICATOR

These indicators are illuminated by pushing the selector switches.

- If the selector indicators for the tape and the tuner both light up, it means that the selection is not made properly. Press the selector button again.

5. SELECTOR (Input Selection Switches)

These switches select the desired program source.

TAPE This switch is used to reproduce the tape deck connected to TAPE.

CD/AUX For playing a Compact Disc, second tuner, turntable with a high output ceramic cartridge, tape deck for playback use, or any suitable high output sources connected to the CD/AUX inputs.

PHONO This position is used for playing a disc on the turntable connected to the PHONO inputs.

TUNER For listening to program on the tuner connected to the TUNER inputs.

6. VOLUME (Volume Control)

This control adjusts the sound volume from the speakers. The volume is increased by moving to the right, and decreased by moving to the left.

7. SUBSONIC FILTER (Subsonic Filter Switch)

This filter attenuates the frequencies below 18 Hz on the right and left channels at 6 dB/oct rate. The subsonic filter is used to remove unwanted low frequency noise, and to prevent acoustic feedback.

8. LOUDNESS (Loudness Switch)

This switch introduces a special low and high frequency emphasis at low listening levels. This is done because the human ear is less sensitive to these frequencies at low listening levels. Select the position according to your personal preference.

9. SPEAKERS (Speaker Selection Switches)

These switches control speaker selection.

- | A | B | |
|---|---|---|
| ■ | ■ | Output are off and no sound will be produced from the speakers. |
| ■ | ■ | For listening to the speakers connected to the terminals A. |
| ■ | ■ | For listening to the speakers connected to the terminals B. |
| ■ | ■ | For listening to the speakers connected to the terminals A and B. |

10. PHONES (Headphones Output)

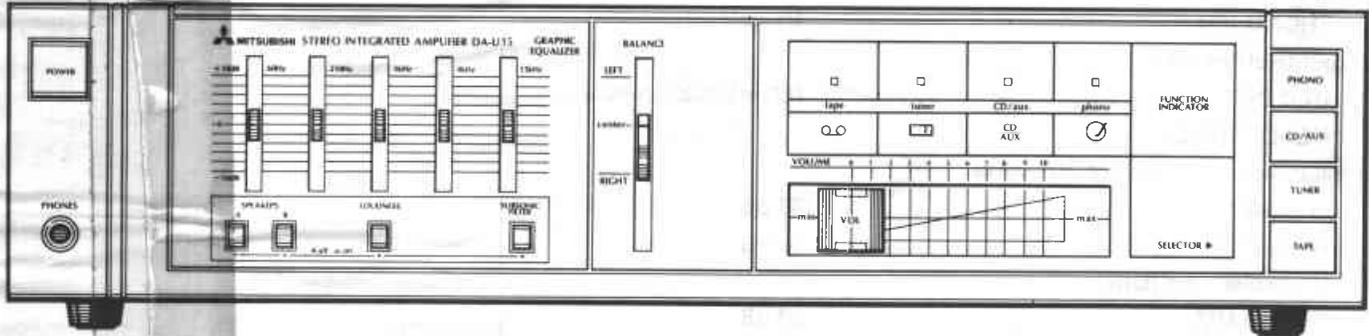
For stereo listening with headphones, plug the headphones into this output.

SPECIFICATIONS

Min. RMS power output	30 watts 8 ohms 1 kHz, 0.3% THD
Total harmonic distortion	
PHONO MM	0.05% (half power)
AUX, PLAY	0.05% (half power)
Intermodulation distortion	0.05% (half power)
Frequency response	
PHONO MM	±0.5 dB, 20 Hz to 20 kHz
AUX, PLAY	±0.2 dB, 20 Hz to 20 kHz
Input sensitivity/Impedance	
PHONO MM	2.5 mV/50k ohms
AUX, PLAY	150 mV/50k ohms
Maximum input level	
PHONO MM	100 mV
Output level/Impedance	
REC OUT	150 mV/600 ohms
HEADPHONES	15 mW/8 ohms
Signal to noise ratio (IHF A Network)	
PHONO MM	87 dB
AUX, PLAY	95 dB
Signal to noise ratio (DIN)	
PHONO MM	63 dB
AUX, PLAY	75 dB
Tone control	
GRAPHIC EQUALIZER	± 10 dB (60/250/1 k/4 k/15 kHz)
Loudness	+7 dB (100 Hz), +5 dB (10 kHz)
Power consumption	165 W (IEC)
Dimensions (W x H x D)	424 x 101 x 258 mm (16-11/16 x 4 x 10-5/32")
Weight	4.4 kg (9 lb 11 oz)

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

SERVICE MANUAL
STEREO INTEGRATED AMPLIFIER
MODEL DA-U15



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