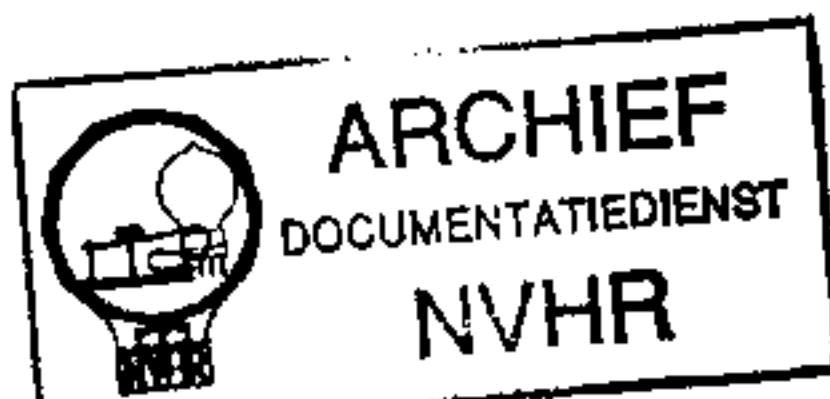
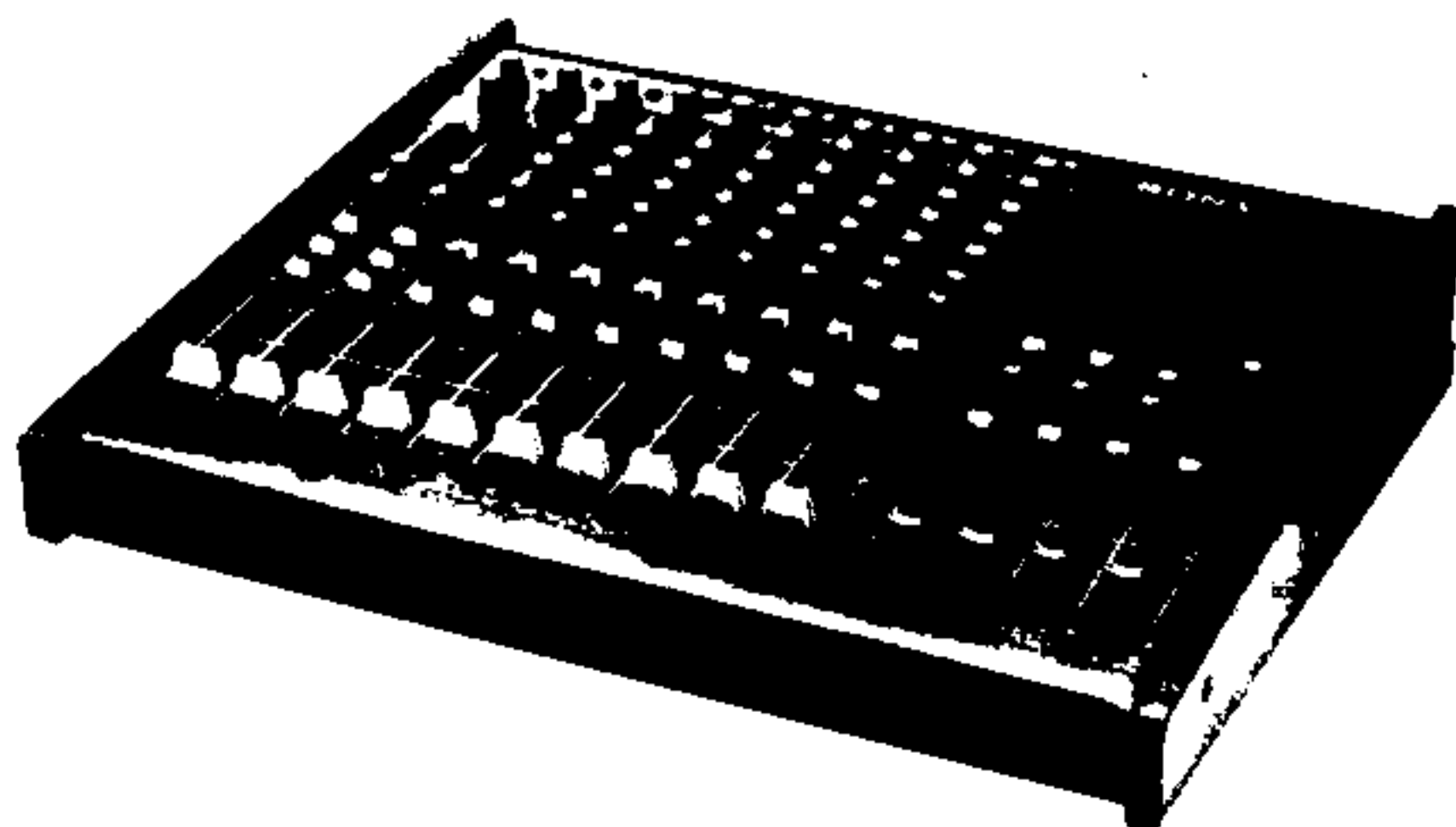




SERVICE MANUAL

Met dank aan A.R.A. van Rossum

AEP Model



SPECIFICATIONS

Input

Connector	Type of connector	Channels	Reference input level	Maximum input level	Input impedance	Circuit
PHONO INPUT	Phono jack	2 stereo	-50 dBs (1 kHz)	-20 dBs (1 kHz)	50 k ohms	unbalanced
LINE INPUT	Phono jack	2 stereo	-10 dBs	+14 dBs	50 k ohms	unbalanced
MIC/LINE INPUT	XLR-331 or equivalent	8	-60 dBs	+20 dBs	*	balanced
MIC/LINE INPUT	6.3 phone jack	8	-60 dBs	+20 dBs	*	balanced/unbalanced
SUB IN	6.3 phone jack	3	-10 dBs	+20 dBs	10 k ohms	unbalanced
BUS IN MAIN	6.3 stereo phone jack	1 stereo	+4 dBs	+20 dBs	82 k ohms	unbalanced
BUS IN AUX	6.3 stereo phone jack	1 stereo	-5 dBs	+15 dBs	88 k ohms	unbalanced

* LINE INPUT: 2 k ohms to 20 k ohms

MIC INPUT: for low impedance microphone of 600 ohms or less (High impedance microphones of more than 600 ohms are acceptable by adjusting with the equalizer.)

Output

Connector	Type of connector	Channels	Reference output level	Maximum output level	Rated load impedance	Circuit
MASTER OUT	XLR-332 or equivalent	2 (1 stereo)	+4 dBs	+20 dBs	800 ohms or more	balanced
MASTER OUT	6.3 phone jack	2 (1 stereo)	+4 dBs	+20 dBs	10 k ohms or more	unbalanced
AUX OUT 1	6.3 phone jack	1	-5 dBs	+15 dBs	10 k ohms or more	unbalanced
AUX OUT 2	6.3 phone jack	1	-5 dBs	+15 dBs	10 k ohms or more	unbalanced
PRE MASTER REC OUT	Phono jack	1 stereo	0 dBs	+20 dBs	10 k ohms or more	unbalanced
POST MASTER REC OUT	Phono jack	1 stereo	+4 dBs	+20 dBs	10 k ohms or more	unbalanced
PHONES	6.3 stereo phone jack	1 stereo	—	Maximum output 60 mW (at 45-ohm load)	8 ohms or more	unbalanced

Frequency response

20 Hz - 20 kHz (within +0.5 dB and -1.5 dB, at 1 kHz)

Harmonic distortion

Less than 0.1% (at maximum input/output level, at 1 kHz)

Equivalent input noise

INPUT SELECT: -60 (MIC) position
Less than -126 dBs (input 150 ohms terminated, 20 Hz - 20 kHz)

INPUT SELECT: -20 (LINE) position
Less than -86 dBs (input short-circuited, 20 Hz - 20 kHz)

Residual noise

Less than -100 dBs (MASTER fader OFF)

Cross-talk

Less than -60 dB (at 1 kHz)

Equalizer

High 10 kHz $\pm$ 15 dB

Middle 2.5 kHz $\pm$ 15 dB

Low 100 Hz $\pm$ 15 dB

Dimensions

Approx. 510 x 100 x 450 mm (w/h/d)
(20¹/₈ x 4 x 17³/₄ inches)

without including projecting parts

Weight

Approx. 9.5 kg (20 lb 15 oz)

Power requirements

220 V AC 50/60 Hz

Power consumption

14 W

AUDIO MIXER
SONY®



SECTION 1 GENERAL

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1-1. OUTLINE

Two stereo inputs (channel 1 through 4)

Two stereo systems are connected, and the level of connected stereo signal can be controlled with a single fader.

So, for example, switching between two turn tables can be performed easily using the fade-in and fade-out effects.

8 channel inputs with wide level range

The MU-X121 is provided with 8 input connectors which can accept the line and microphone input signals. The level of input signals are controlled by referring to the PEAK indicators so that the optimum level can easily be obtained.

Easy monitoring

Using the headphones, the pre-master fader signal can be monitored so that intercommunication between a player and mixing operator is possible without affecting the output signal.

As for the input signals, the pre-fader signal can also be monitored channel by channel using the headphones so that the signal can be checked and the setting can be changed during playing.

In-line arrangement of controls and connectors

As the controls and switches on the front panel and the connectors for each channel are arranged in-line, the change of connections can be done without error.

Balanced type connectors

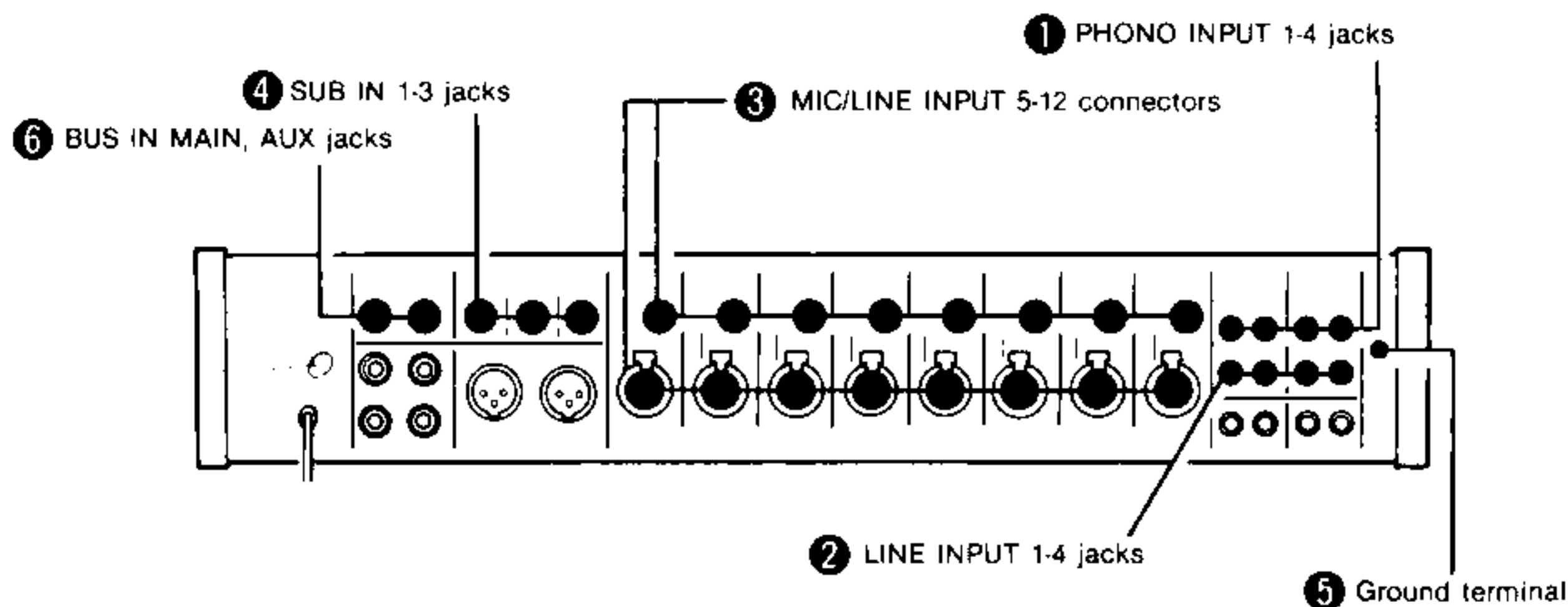
Thanks to the floating electric balancing circuit for input and output, the unit is compact and lightweight, and also the wide frequency range and low noise design is realized.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

1-2. LOCATION AND FUNCTION OF PARTS

INPUT SECTION

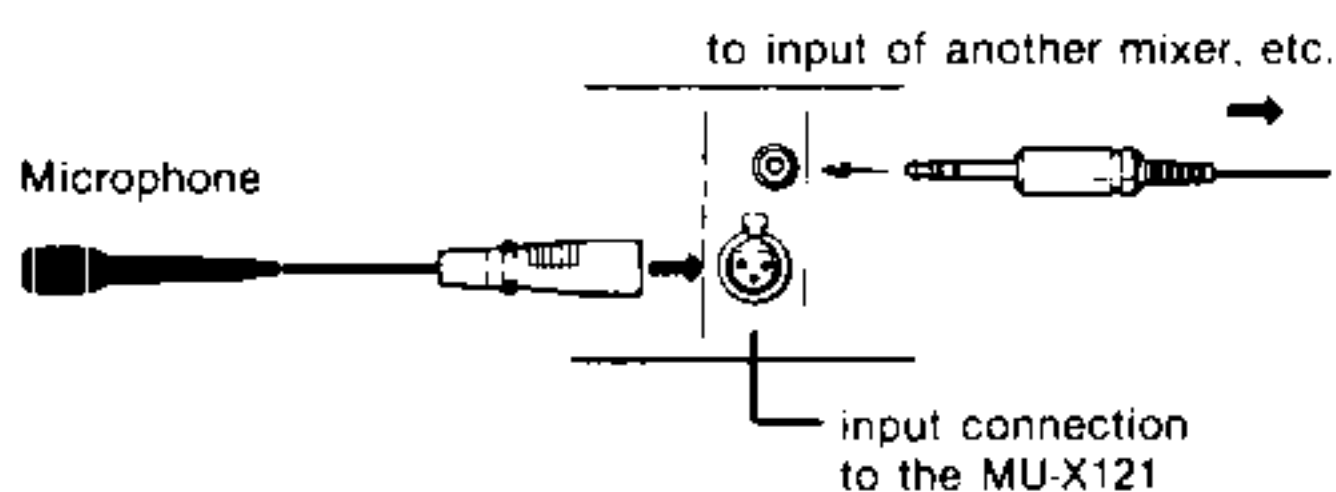


1 PHONO INPUT 1-4 jacks (phono jack, unbalanced)
Accept output stereo signals of turn tables equipped with a moving-magnete type cartridge.

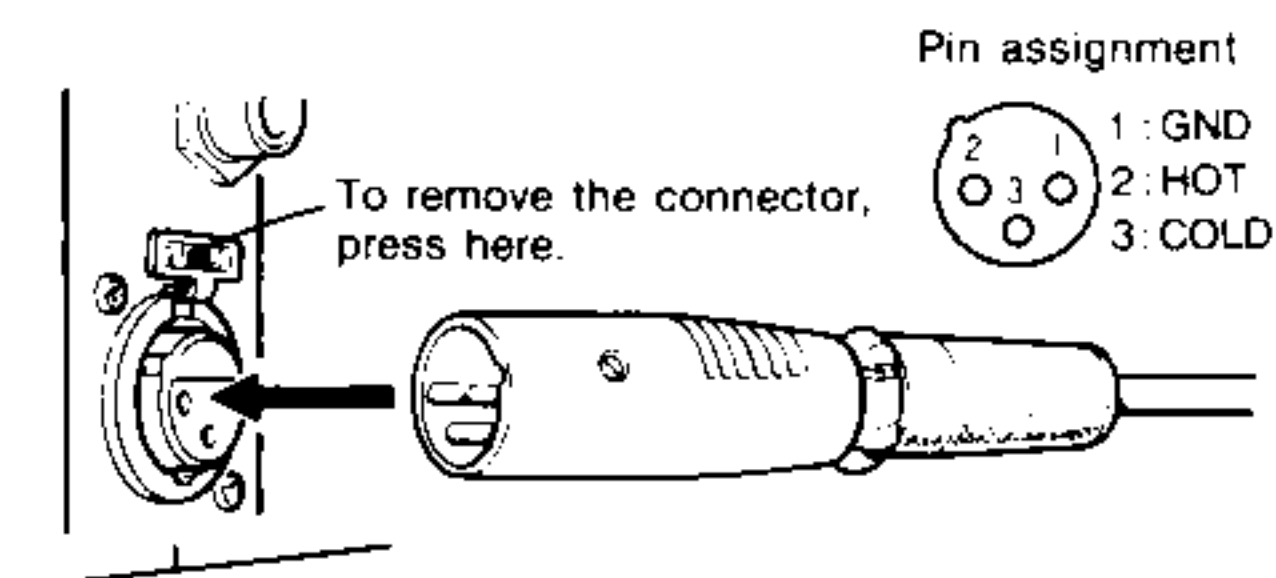
2 LINE INPUT 1-4 jacks (phono jack, unbalanced)
Accept line-out stereo signals of tape decks and amplifiers.

3 MIC/LINE INPUT 5-12 connectors (XLR-331 or equivalent, and $\phi 6.3$ phone jack, balanced)
Accept line-out signals of a tape deck or an amplifier, or microphone signals.
The XLR-331 type connector and phone jack are connected in parallel in the unit so that the signal connected to one connector can be output from the other.

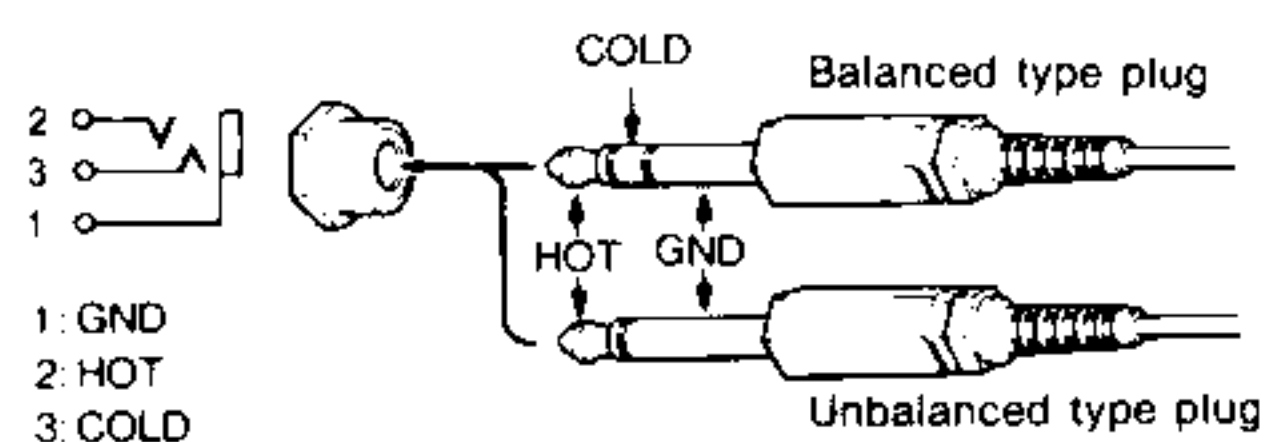
Example of connection



XLR-331 or equivalent (balanced type)



$\phi 6.3$ phone jack (balanced type)

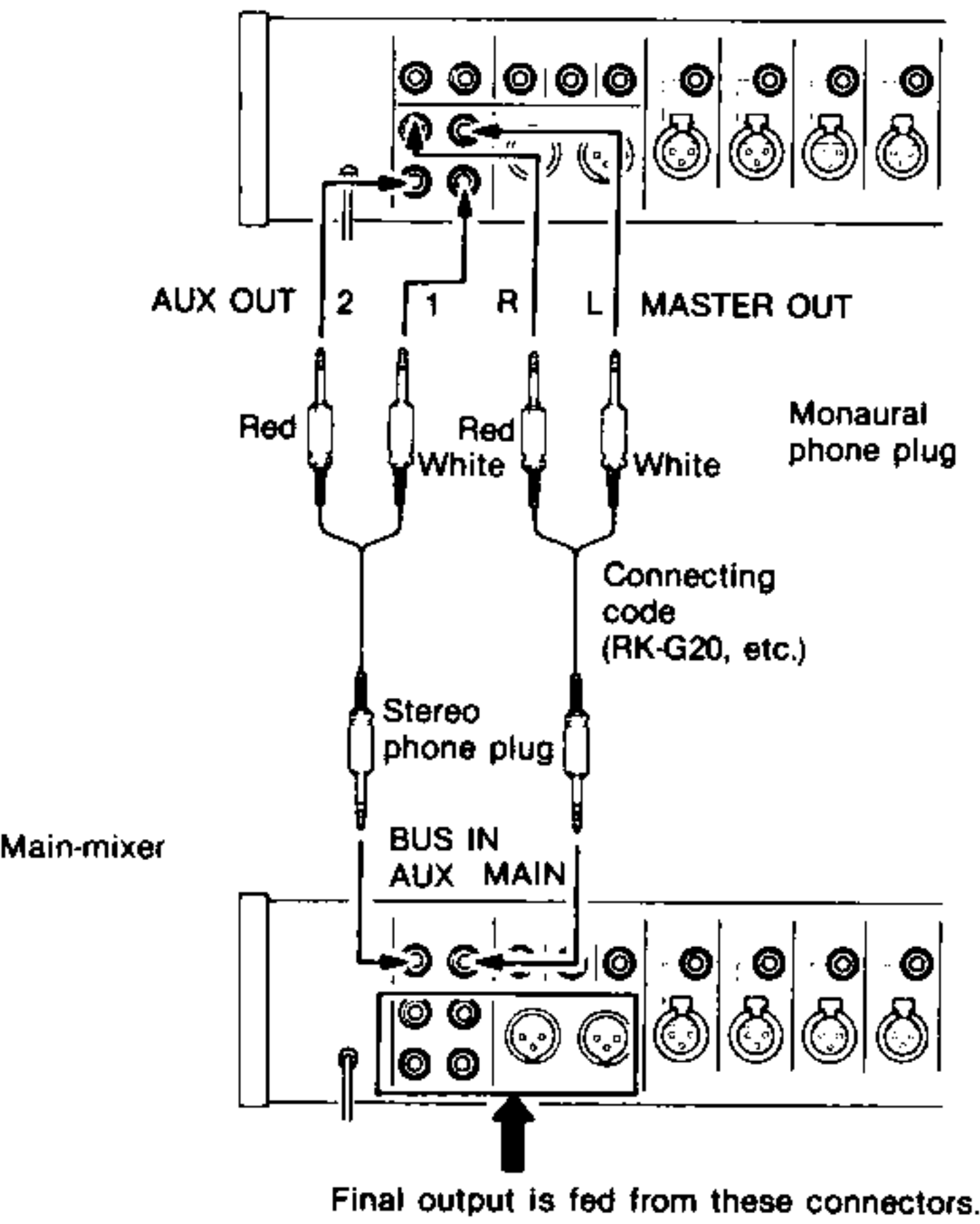


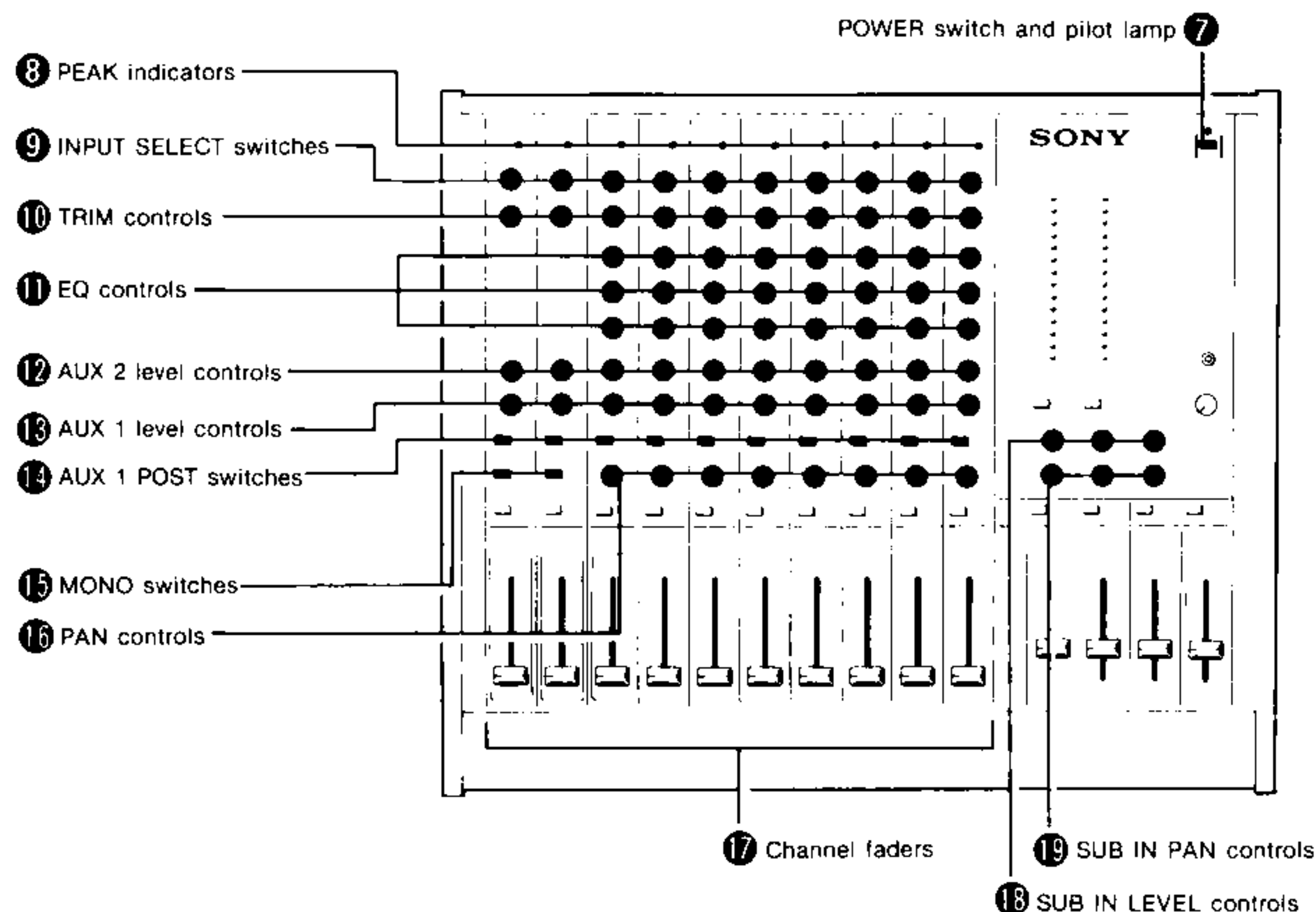
•When an unbalanced type plug is inserted, the COLD is grounded, and the connector functions as an unbalanced type connector.

- ④ **SUB IN 1-3 jacks** (ø6.3 phone jack, unbalanced)
Accept auxiliary input signals such as those from an echo machine. The signal connected here can be controlled by the PAN and LEVEL controls.
- ⑤ **Ground terminal**
When connected audio equipment such as a turn table, which requires ground connection to reduce hum or other undesirable noise, connect its ground wire to this terminal.
- ⑥ **BUS IN MAIN, AUX jacks** (ø6.3 stereo phone jack, unbalanced)
Use for cascade connection to expand the controllable channels.
When the cascade connection is made, set the MASTER L, MASTER R, AUX 1 and AUX 2 faders on the sub-mixer to a thick line "7", and the same output level can be obtained by setting the faders of each channel to the same position.

Note
The CUE and PFL lines are not connected between the mixers so that the each channel should be monitored with the headphones connected to each mixer.

Sub-mixer





7 POWER switch and pilot lamp

Press the right side of the switch to turn the power on. When the power is supplied, the pilot lamp will illuminate.

8 PEAK indicators

Illuminate if the corresponding input signal level reaches the maximum (clipping) level. If the indicators light, adjust the input level with the INPUT SELECT switches and TRIM controls so that the indicators go out. For channels 1 through 4, use the TRIM controls.

9 INPUT SELECT switches

Select the input sources.

The switches for channels 1 through 4 select two inputs, LINE or PHONO. The switches for channels 5 through 12 select the attenuating level of the input signal.

When the signal over the rated level is input, the corresponding PEAK indicator will illuminate.

10 TRIM controls

Control the input signal level of each channel. Adjust these controls so that the proper level can be obtained when the corresponding channel fader is set at "7".

11 EQ controls

Adjust to equalize the sound sources. The HI controls adjust the high frequency range around 10 kHz, the MID controls adjust the middle frequency range around 2.5 kHz, and the LOW controls adjust the low frequency range around 100 Hz.

12 AUX 2 (auxiliary output 2) level controls

Adjust the signal level of each channel going to the auxiliary output 2. The auxiliary output 2 signal is the pre-fader signal so that this control adjusts the level independent of the channel fader setting.

13 AUX 1 (auxiliary output 1) level controls

Adjust the signal level of each channel going to the auxiliary output 1.

Normally the auxiliary output 1 signal is the pre-fader signal so that this control adjusts the level independent of the channel fader setting. When the AUX 1 POST switch 14 is depressed, the post-fader signal of the corresponding channels is fed to the auxiliary output 1. In this case, the output signal level changes according to the setting of the channel faders.

⑫ AUX 1 POST switches

Selects the signal going to the auxiliary output 1, either pre-fader signal or post-fader signal.

When the switches are depressed, the post-fader signals of the corresponding channels are fed to the auxiliary output 1.

When the switches are released, the pre-fader signals of the corresponding channels are fed to the auxiliary output 1.

As for the channels 1 through 4, the auxiliary output signals are as shown below:

- When the AUX 1 POST switch is not depressed, the following signals are fed.
AUX 1: Left channel of pre-fader signal
AUX 2: Right channel of pre-fader signal
- When the AUX 1 POST switch is depressed, the auxiliary output signals will be monaural while the main output signal remains stereo.
AUX 1: Mixed post-fader signals of left and right channels
AUX 2: Mixed pre-fader signals of left and right channels

⑬ MONO switches

Select the channel 1 through 4 signals, stereo or monaural.

When the switches are depressed, the left and right channels are mixed, and the monaural signals are obtained.

⑭ PAN controls

These permit continuous panning of the incoming signals between the output L and R channels. At the C (center) positions, the signals are fed equally to the left and right channels.

⑮ Channel faders

Control the output level of the corresponding channels. The position "7" (the thick line) indicates the reference level.

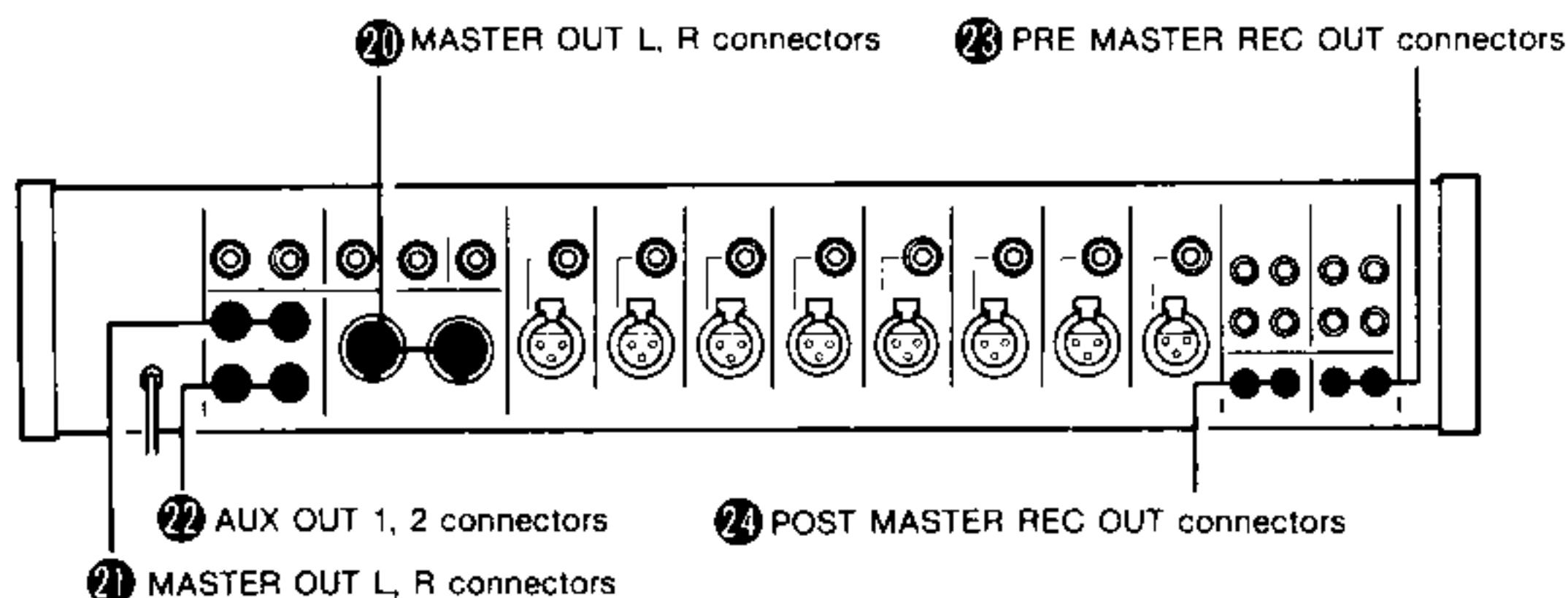
⑯ SUB IN LEVEL controls

Adjust the signal levels from SUB IN 1, 2 or 3 connectors respectively.

⑰ SUB IN PAN controls

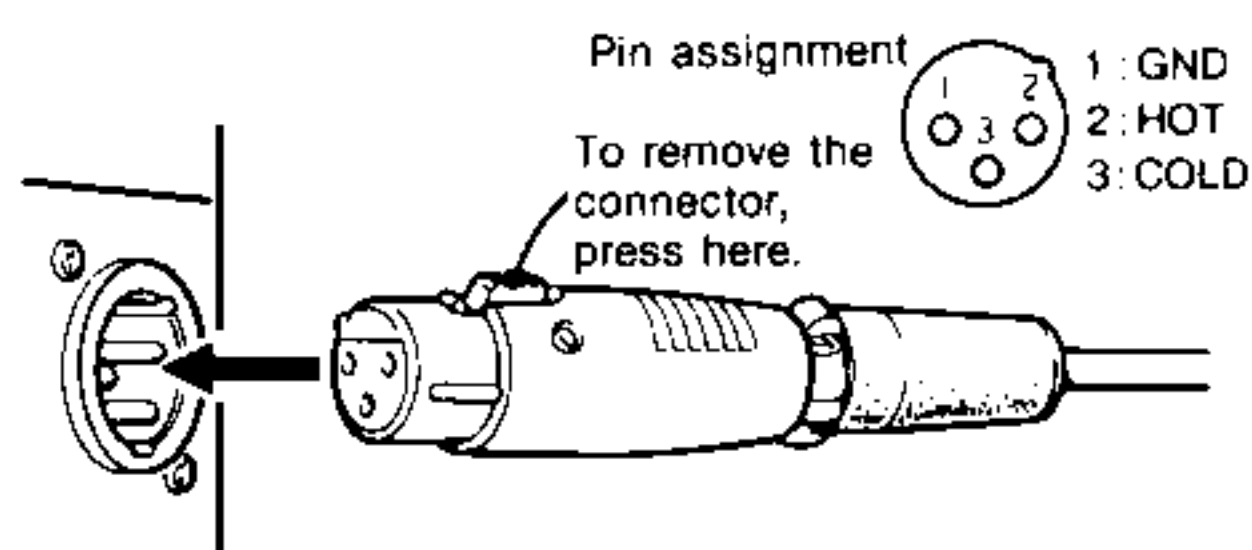
Position the sound image from the SUB IN 1, 2 or 3 connectors in the desired place between the left and right channels.

OUTPUT AND MONITOR SECTION



20 MASTER OUT L, R connectors (XLR-3-32 or equivalent, balanced)

Feed out the mixed line output signals. The signal level is controlled by the MASTER faders.



21 MASTER OUT L, R connectors (ø6.3 phone jack, unbalanced)

Feed out the same signals (unbalanced, however) as the MASTER OUT L, R connectors 20.

22 AUX (auxiliary) OUT 1, 2 connectors (ø6.3 phone jack, unbalanced)

Each supplies the signals independently of the line outputs, MASTER OUT L, R connectors. Connect to an echo machine, or a power amplifier to drive a fold-back speaker.

23 PRE MASTER REC OUT connectors (phono jacks, unbalanced)

Feed out the pre-master fader output signal (mixed with the channel faders but not controlled by the MASTER faders). Use these connectors to record the pre-master fader signal, etc.

24 POST MASTER REC OUT connectors

Feed out the post-master fader signals (mixed by the channel faders, and controlled by the MASTER faders). Use these connectors to record the post-master fader signals, etc.

25 VU meters

Indicate the line output levels.

26 METER SELECT switches

Select the signal indicated by the VU meters. When the switches are released, the L and R channel line output signal levels are indicated. When the switches are depressed, the AUX 1 and AUX 2 channel output signal levels are indicated.

27 MASTER faders

Controls the overall signal level output from the MASTER OUT L, R connectors. The reference level is indicated by a thick line "7".

28 AUX OUT (auxiliary output) 1, 2 faders

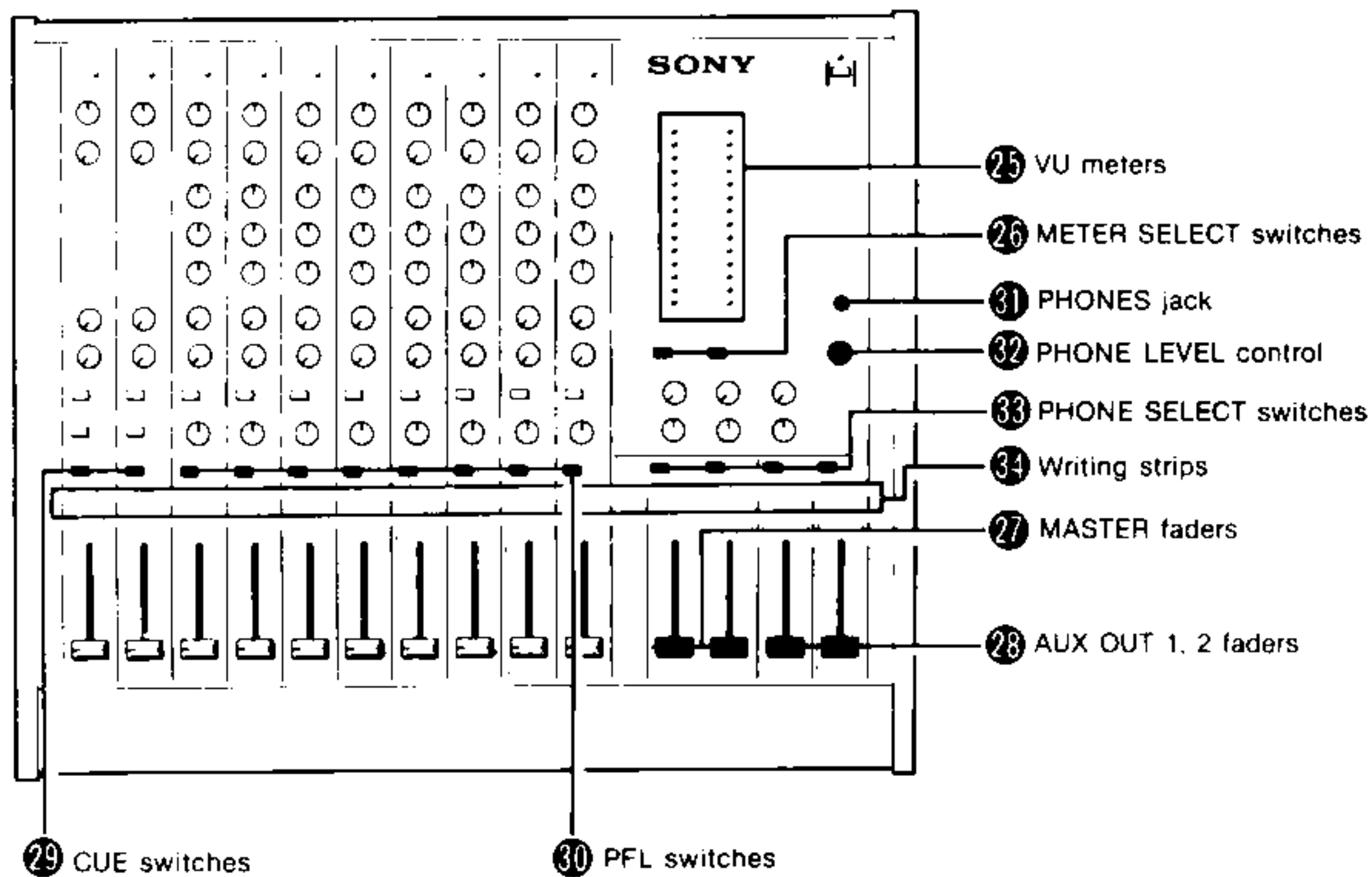
Controls the output level of the AUX 1 and AUX 2 connectors respectively. The reference level is indicated by a thick line "7".

29 CUE switches

Press these switches, and the switches are locked and the pre-fader signals of the corresponding channels can be fed to the PHONES jack 31. Use these switches to monitor the signals from the turn table, tape recorder, etc. To release the switches, press them again.

30 PFL switches

While these switches are depressed, the pre-fader signals of the corresponding channels can be fed to the PHONES jack 31. The input signals can be monitored even if the channel faders are set to "0".



31 PHONES jack (ø6.3 stereo phone jack)
Accepts headphones having an impedance of 8 ohms or more.

32 PHONE LEVEL control
Adjusts the level of the headphones connected to the PHONES jack 31.

33 PHONE SELECT switches
Select the signals to be monitored by the headphones connected to the PHONES jack as follows:

Depressed switches	Output signal of headphones	
	Left	Right
MASTER L only	L	L
MASTER R only	R	R
MASTER L and R	L	R
AUX OUT 1 only	1	1
AUX OUT 2 only	2	2
AUX OUT 1 and 2	1	2
No switch depressed	No output	

Note on monitoring sound
When both MASTER and AUX switches are depressed, the auxiliary signals are monitored. If CUE switches 29 or PFL switches 30 of each channel have been depressed, these switches have priority over the MASTER or AUX switches.

34 Writing strips
Place for note to show the signal sources such as microphones, musical instruments, etc. here.

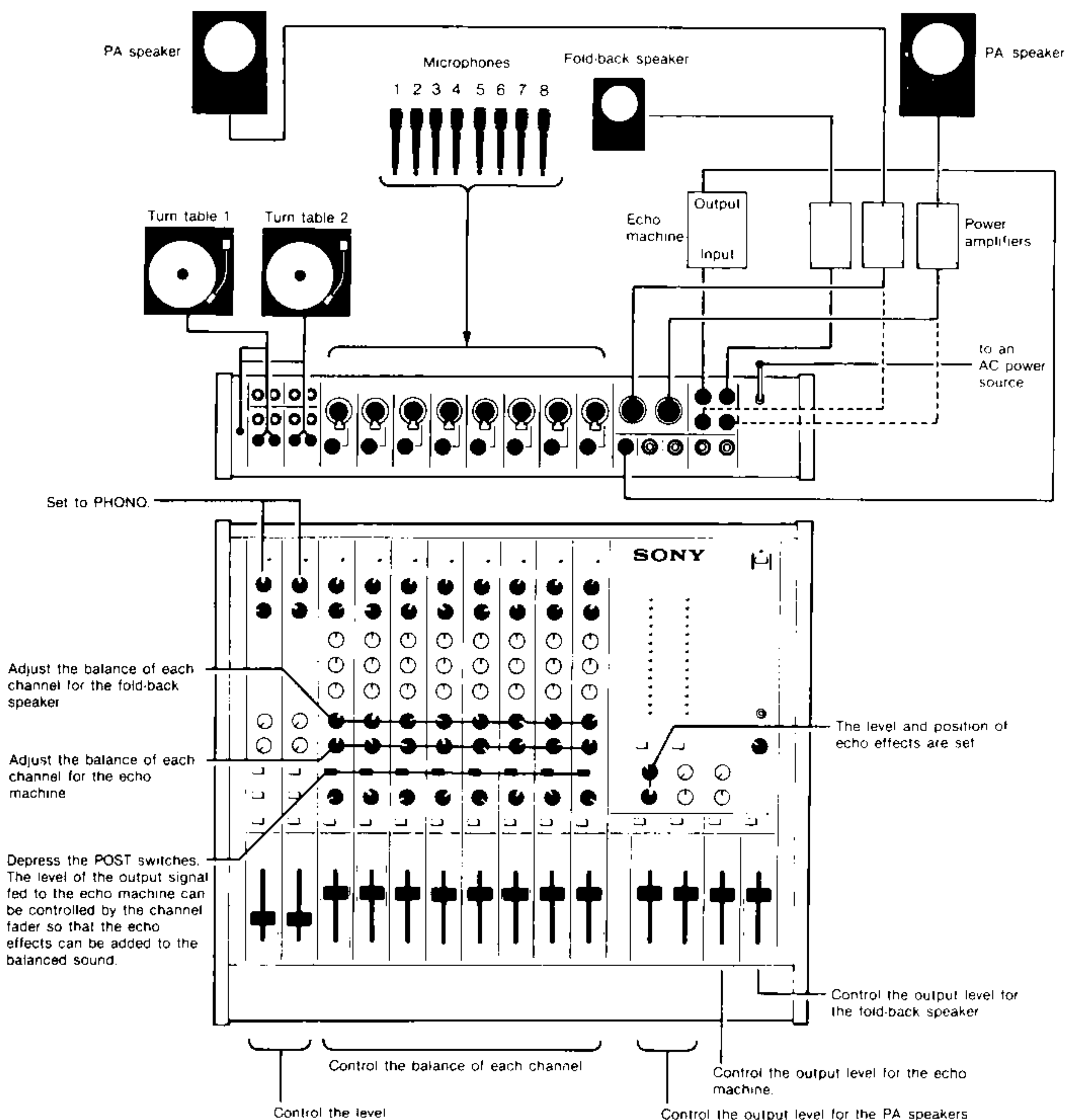
Note
When the phono plugs are to be connected to the phone type jacks on the unit, use the plug adaptor such as a PC-501M, PC-503M, etc. When these adaptors are used to connect the input signals, the input signal will be unbalanced type.

1-3. CONNECTION EXAMPLES

CONNECTIONS FOR PUBLIC ADDRESS

Example 1

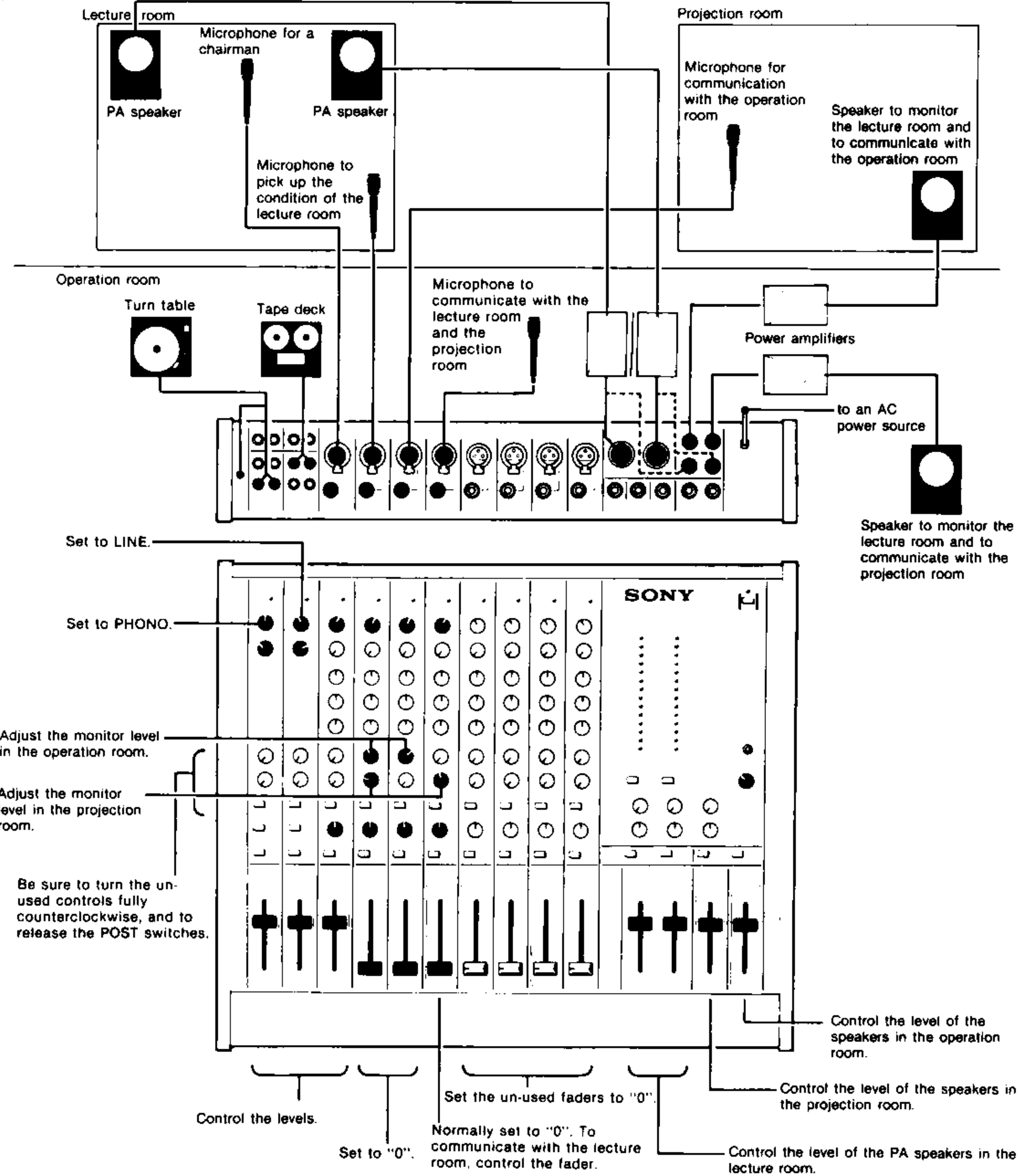
This is a general example. The echo effects can be added to the sound, and players can monitor the fold-back sound.



• For details on the operation of controls and switches other than mentioned above, please refer to "Location and Function of Parts".

Exampel 2

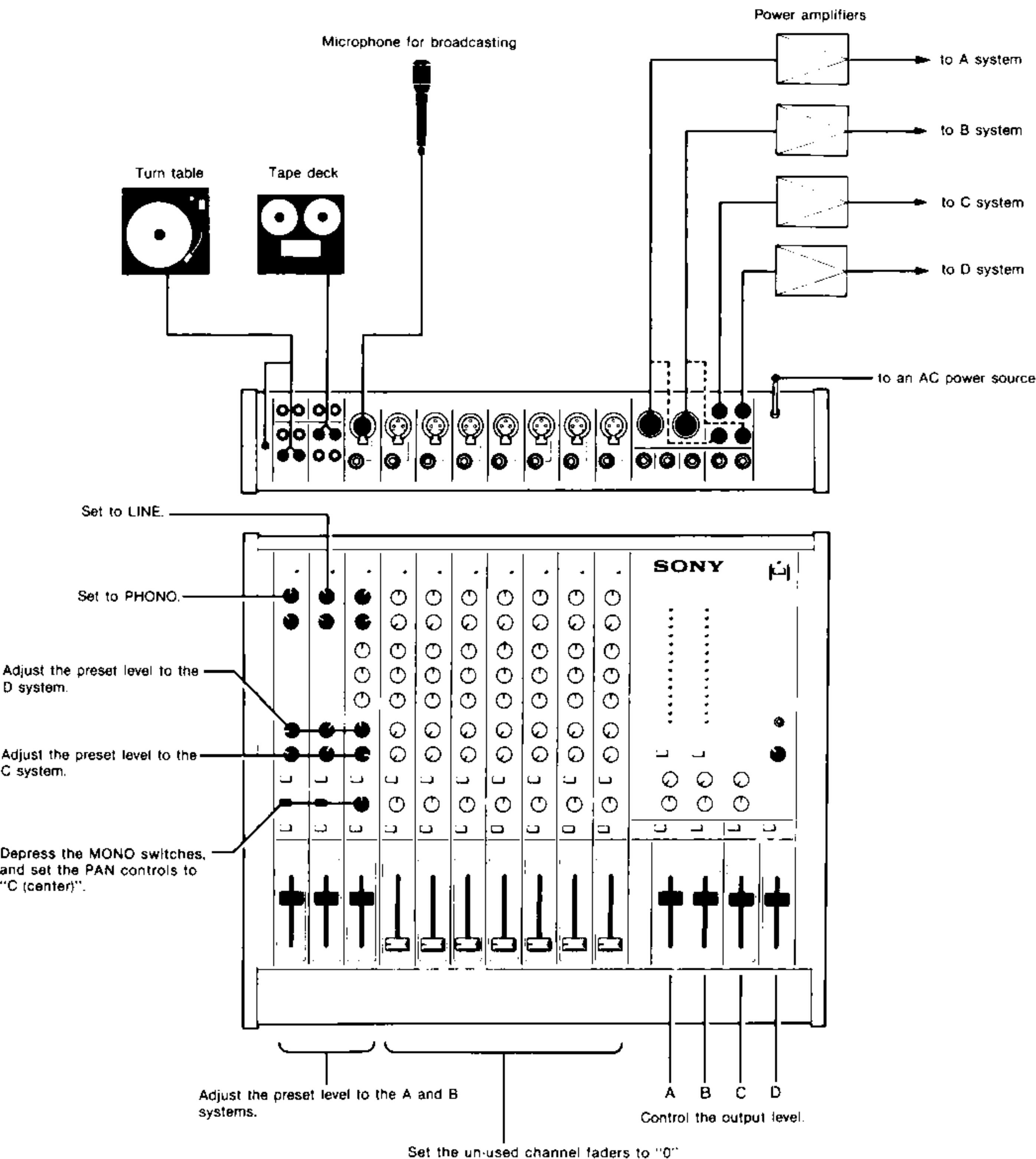
This is an example for a lecture meeting, etc. In this case, the intercommunication between the operating room and the lecture room or the projection room is possible.



• For details on the operation of controls and switches other than mentioned above, please refer to "Location and Function of Parts".

CONNECTIONS FOR BROADCASTING

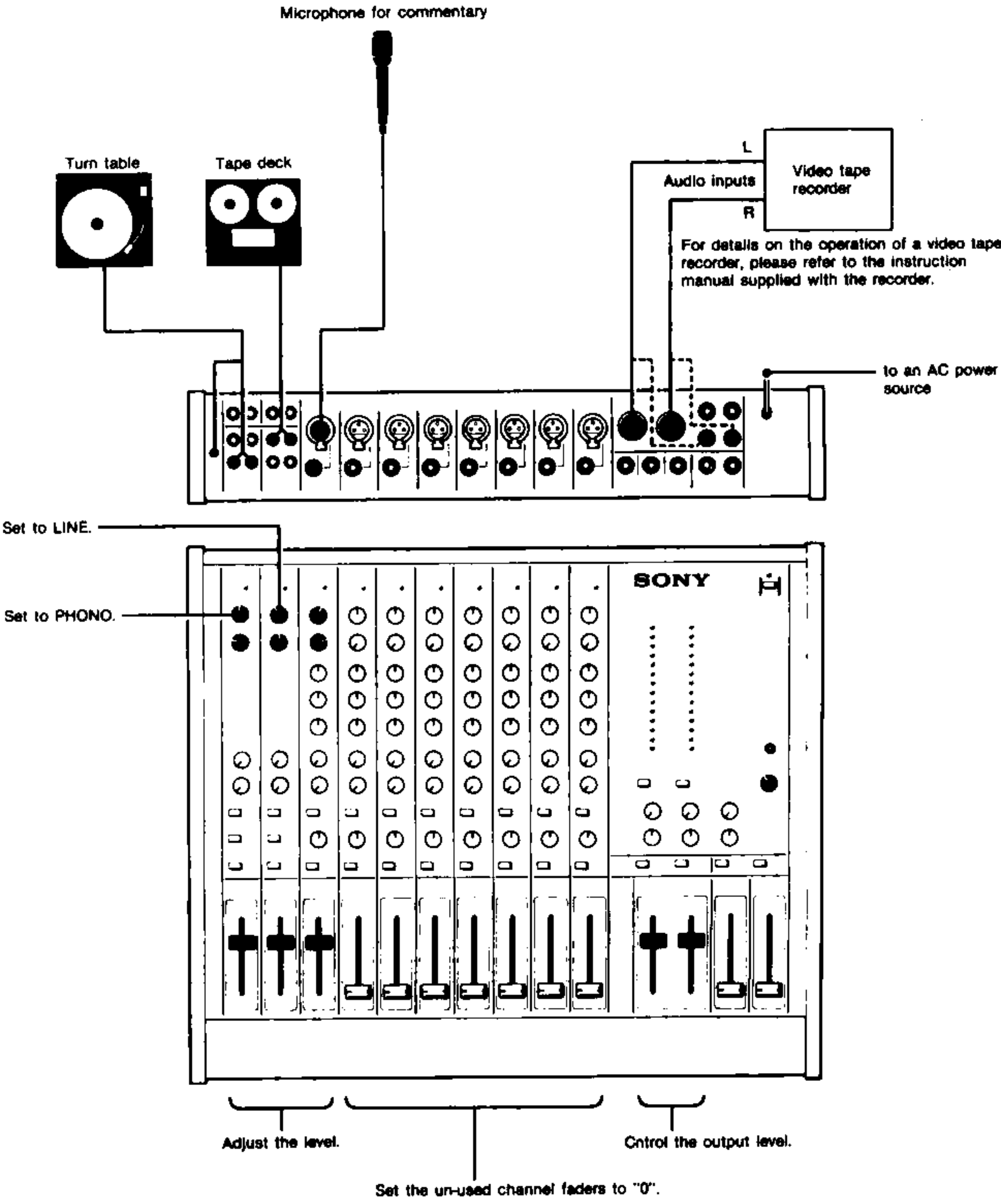
Four output signals can be controlled simultaneously.



• For details on the operation of controls and switches other than mentioned above, please refer to "Location and Function of Parts".

CONNECTIONS FOR OVERDUBBING

The BGM (back-ground music) or commentary can be added on the video tape on which the video signals have been recorded.



• For details on the operation of controls and switches other than mentioned above, please refer to "Location and Function of Parts".

1.4. FUNCTIONING OF PHONE SELECT SWITCH

PHONE SELECT switches

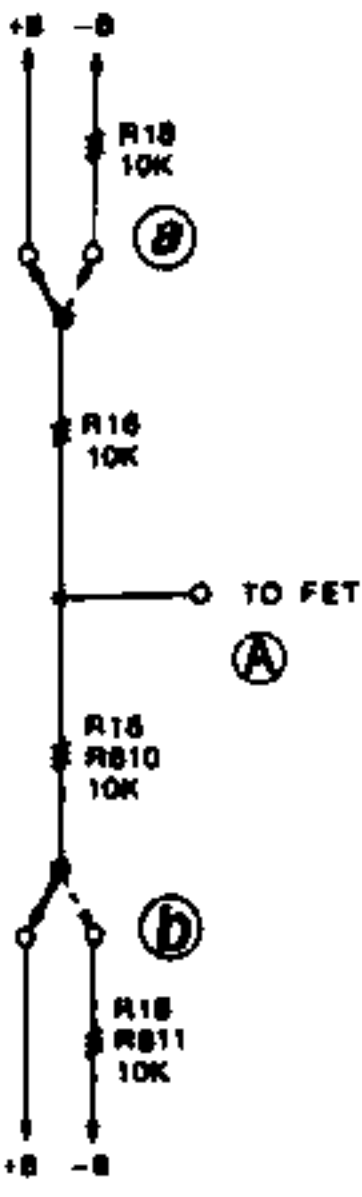
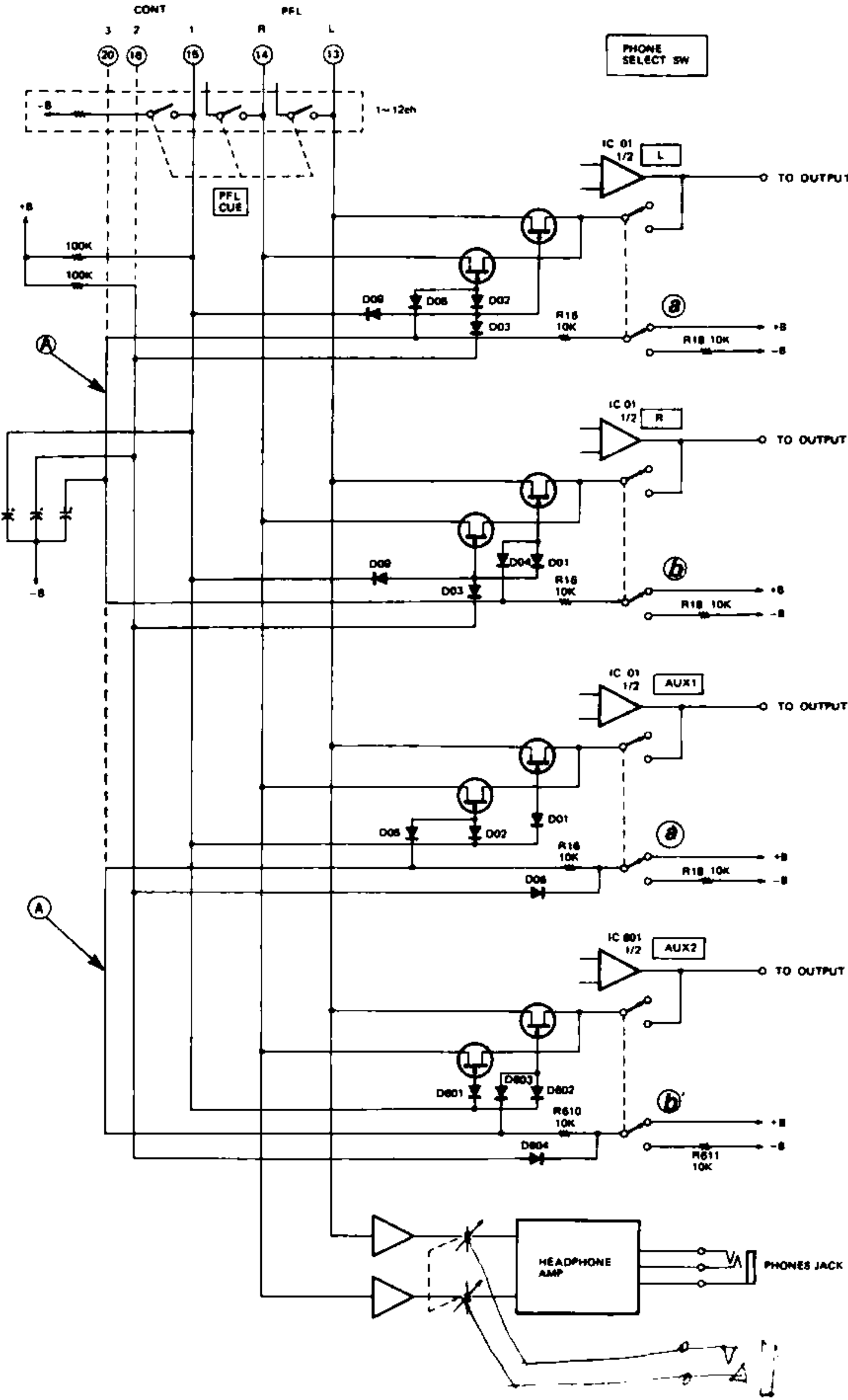
Select the signals to be monitored by the headphones connected to the PHONES jack as follows:

Depressed switches	Output signal of headphones	
	Left	Right
MASTER L only	L	L
MASTER R only	R	R
MASTER L and R	L	R
AUX OUT 1 only	1	1
AUX OUT 2 only	2	2
AUX OUT 1 and 2	1	2
No switch depressed	No output	

Note on monitoring sound

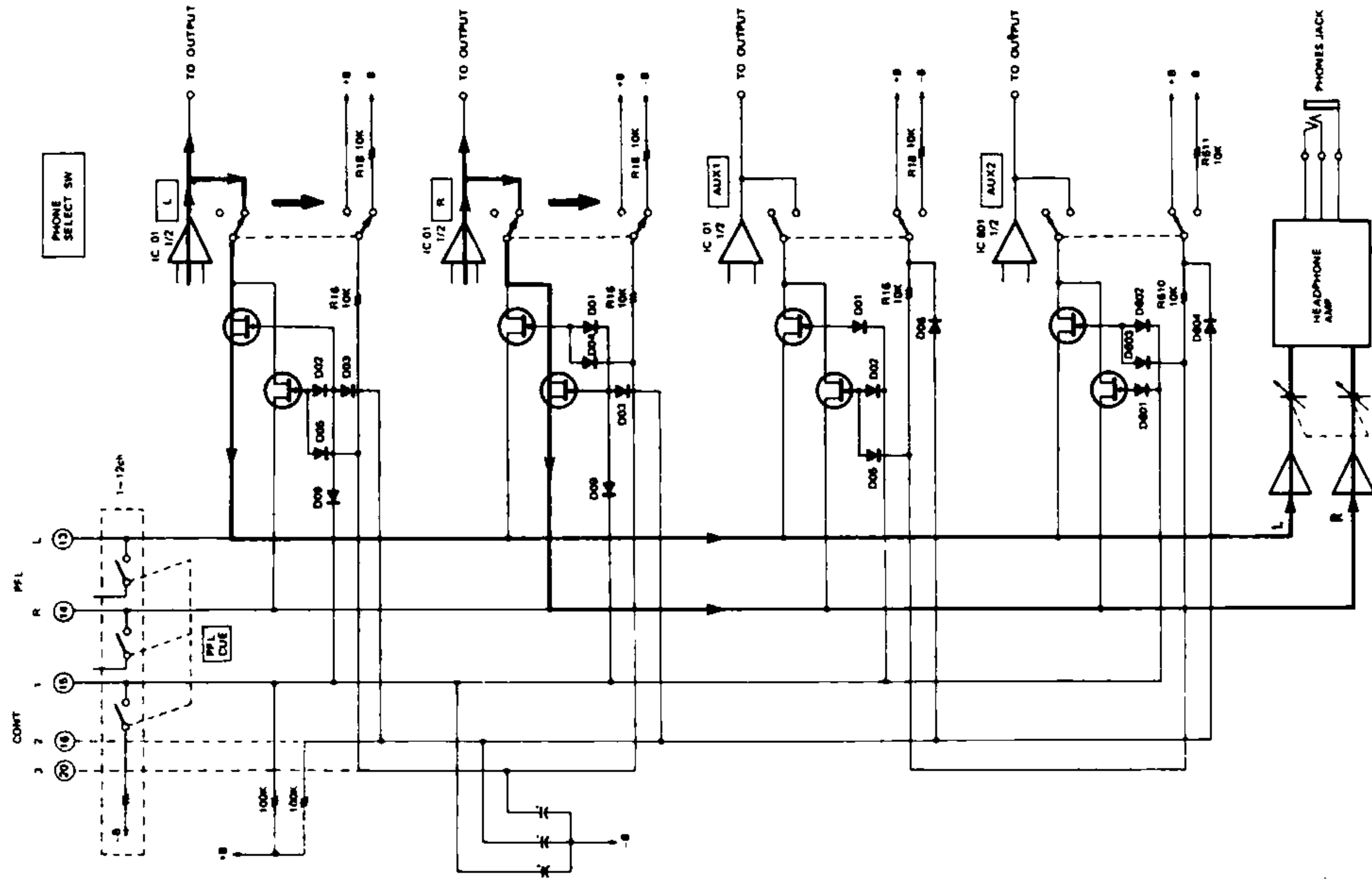
When both MASTER and AUX switches are depressed, the auxiliary signals are monitored. If CUE switches ② or PFL switches ③ of each channel have been depressed, these switches have priority over the MASTER or AUX switches.

THE PROCESS AND CONTROL PULSE TO PHONE JACK

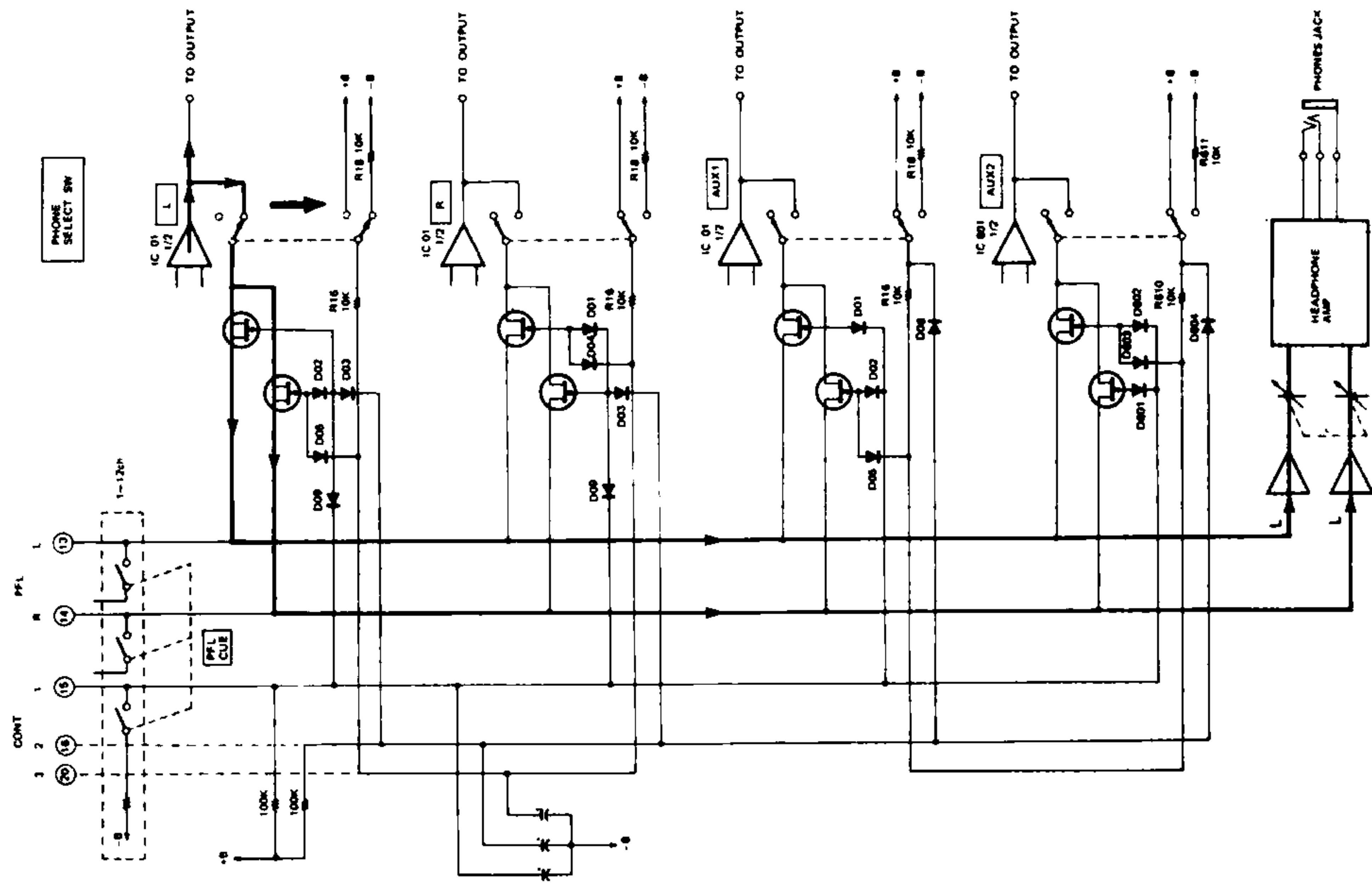


From the figure above, when both ② and ③ are ON, the electric potential at the point A (CONT 3 ②) is about -15V and there is no power continuity between D (Drain) and S (Source) of FET. When either ② or ③ is ON, the electric potential is about +5V (Case 1), and when both ② and ③ are OFF, the electric potential is about +15V (Case 2). In Cases 1 and 2, there is power continuity between D and S of FET and a signal passes through.

When the PHONE SELECT switches L and R are turned ON.



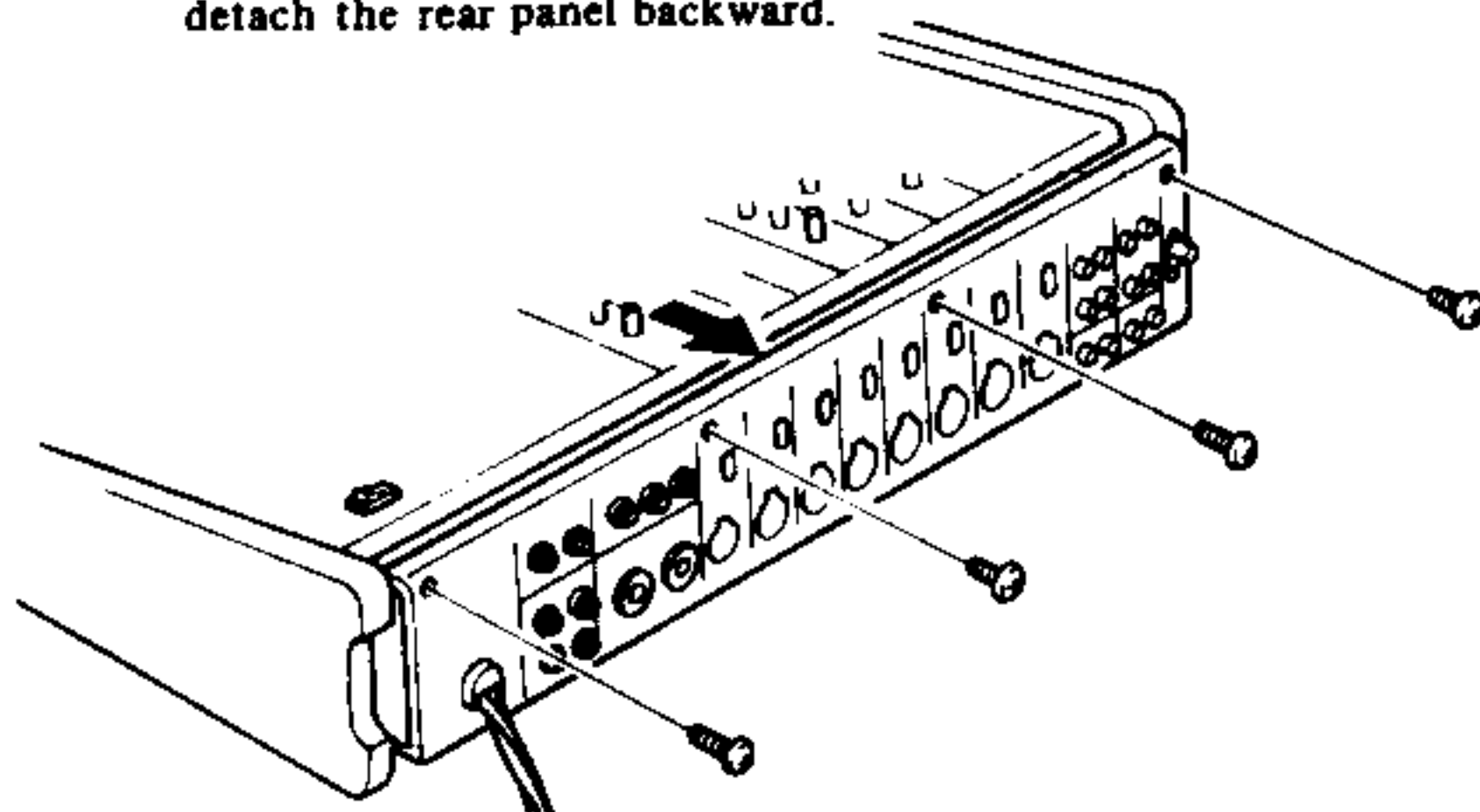
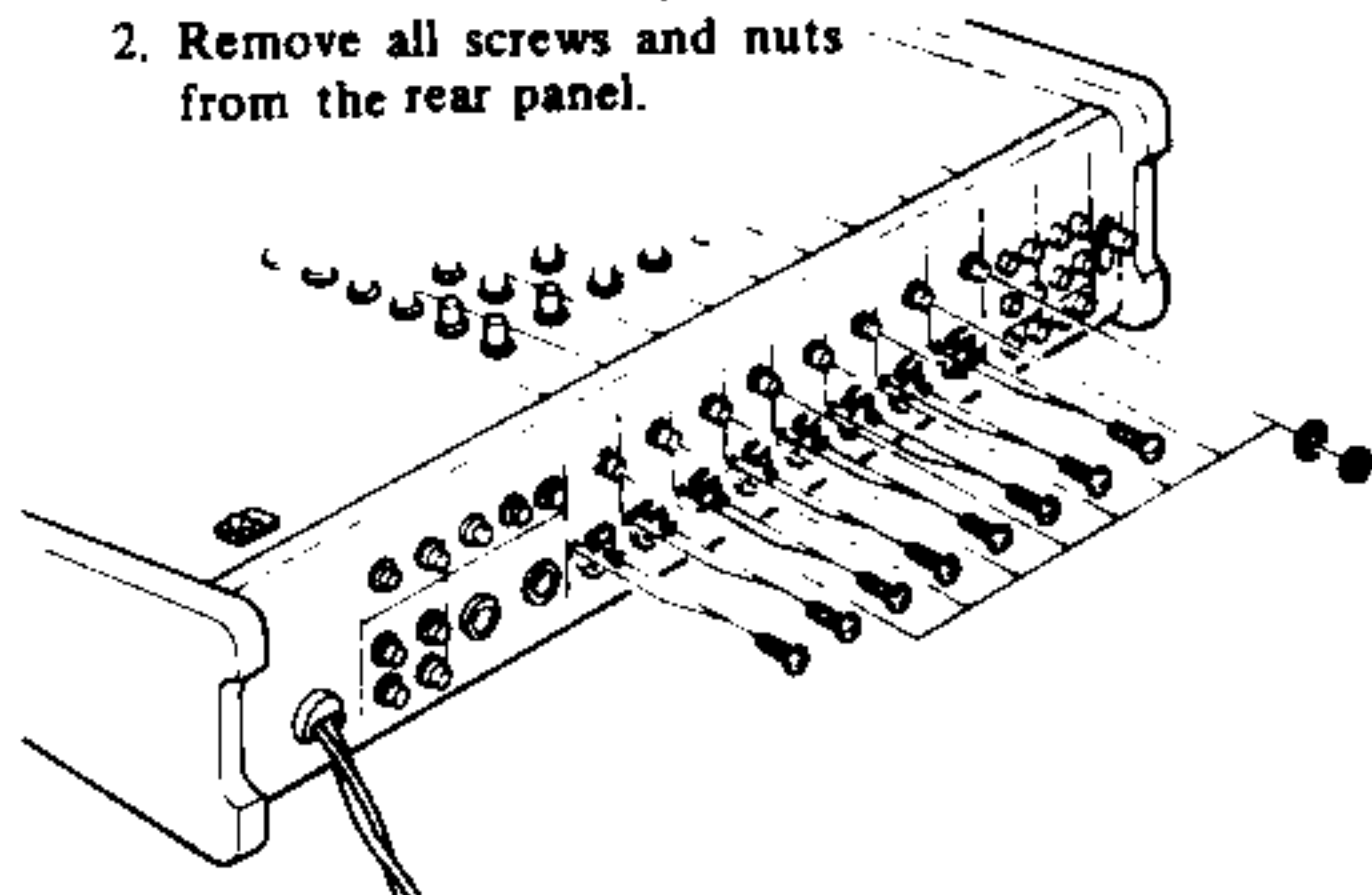
When only the PHONE SELECT switch L is turned ON.



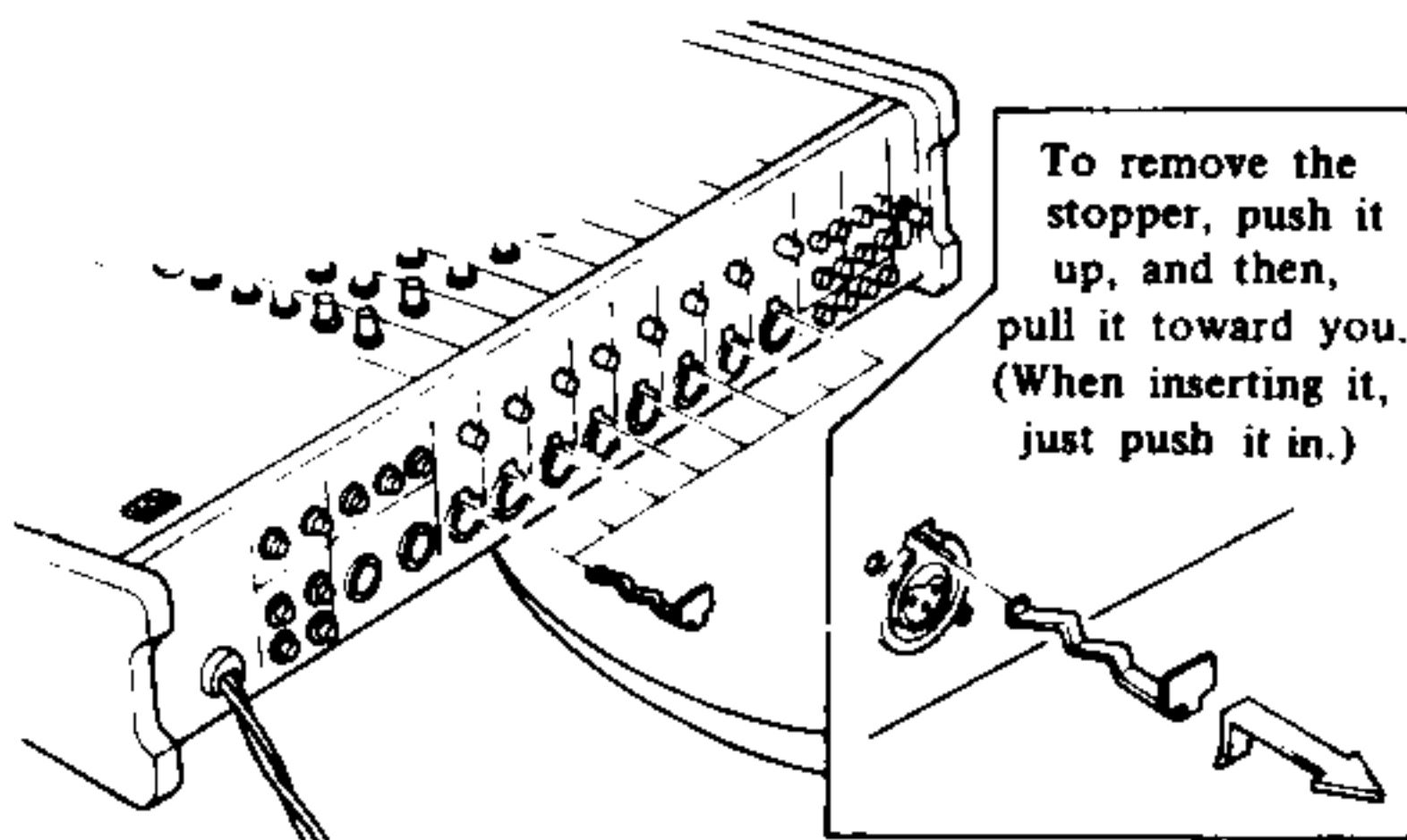
SECTION 2 DISASSEMBLY

REMOVING THE INPUT B BOARD (CH4—CH12)

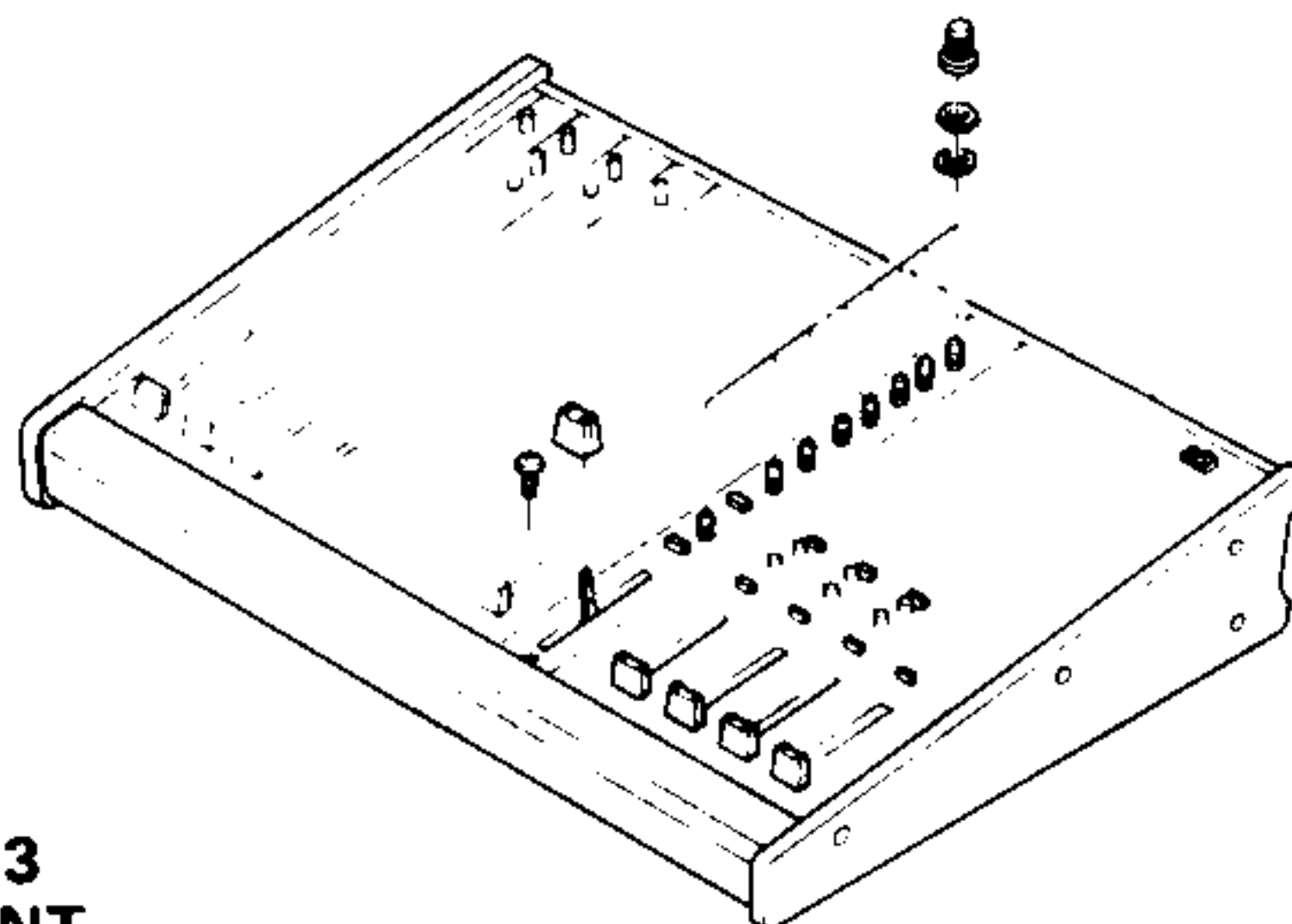
1. Remove a bottom plate. Remove flat cables connecting the board.
2. Remove all screws and nuts from the rear panel.
3. Remove all stoppers for cannon type connectors.
4. Remove rear panel setscrews and detach the rear panel backward.
5. Take off the knob, lock nut and screw of a relevant channel. Then, its board can be removed.



3. Remove all stoppers for cannon type connectors.



5. Take off the knob, lock nut and screw of a relevant channel. Then, its board can be removed.



SECTION 3 ADJUSTMENT

3-1. ELECTRICAL ADJUSTMENT

DC Balance Adjustment

No signal conditions
MASTER L, MASTER R BOARD
 Connect VOM (50k Ω /V) Fig. 1
 Adjust (RV04 10k Ω) for the
 minimum VOM levels.

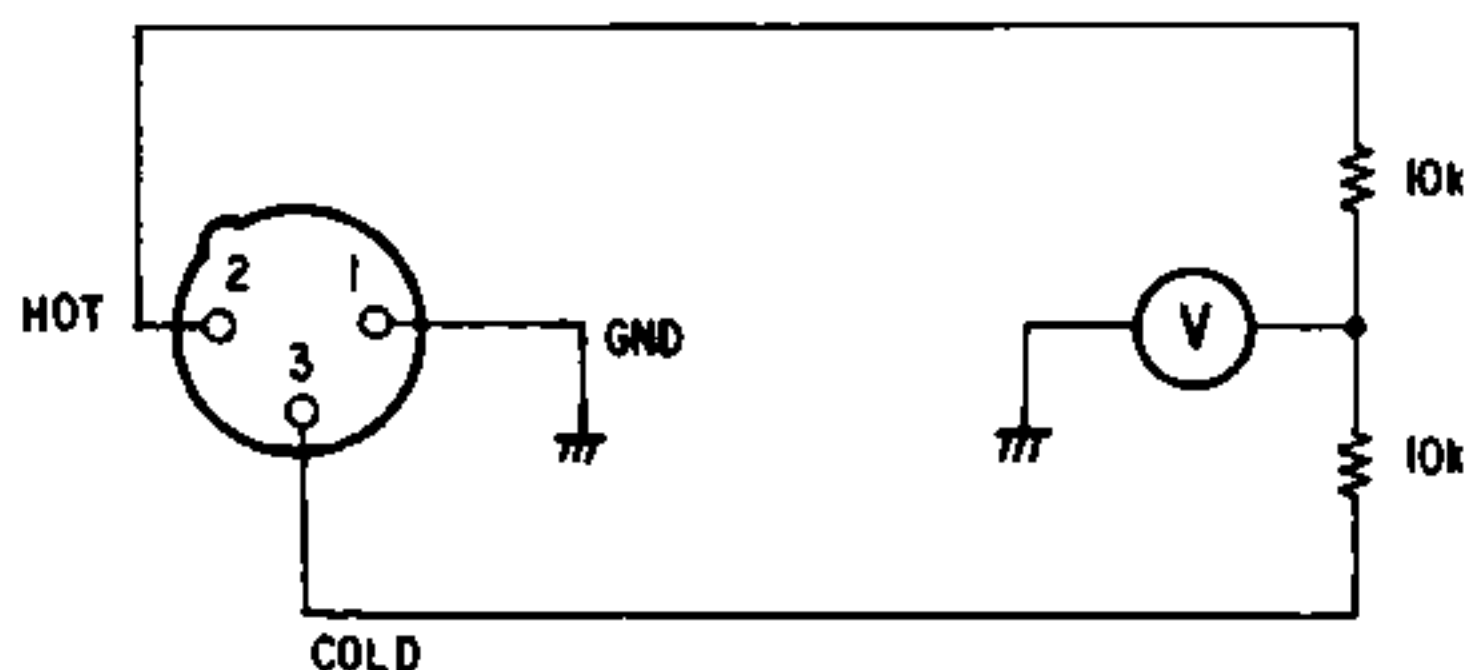
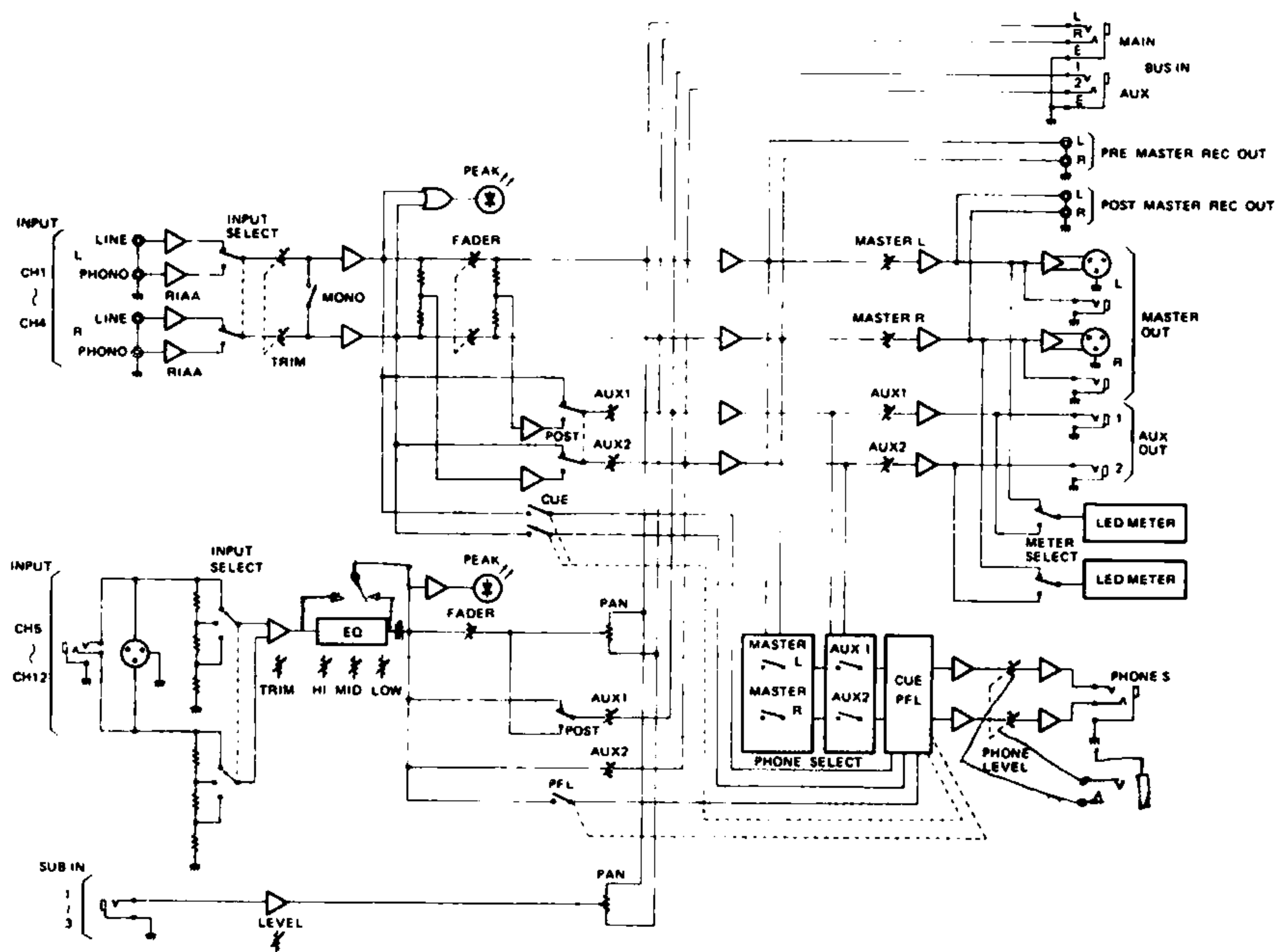


Fig. 1

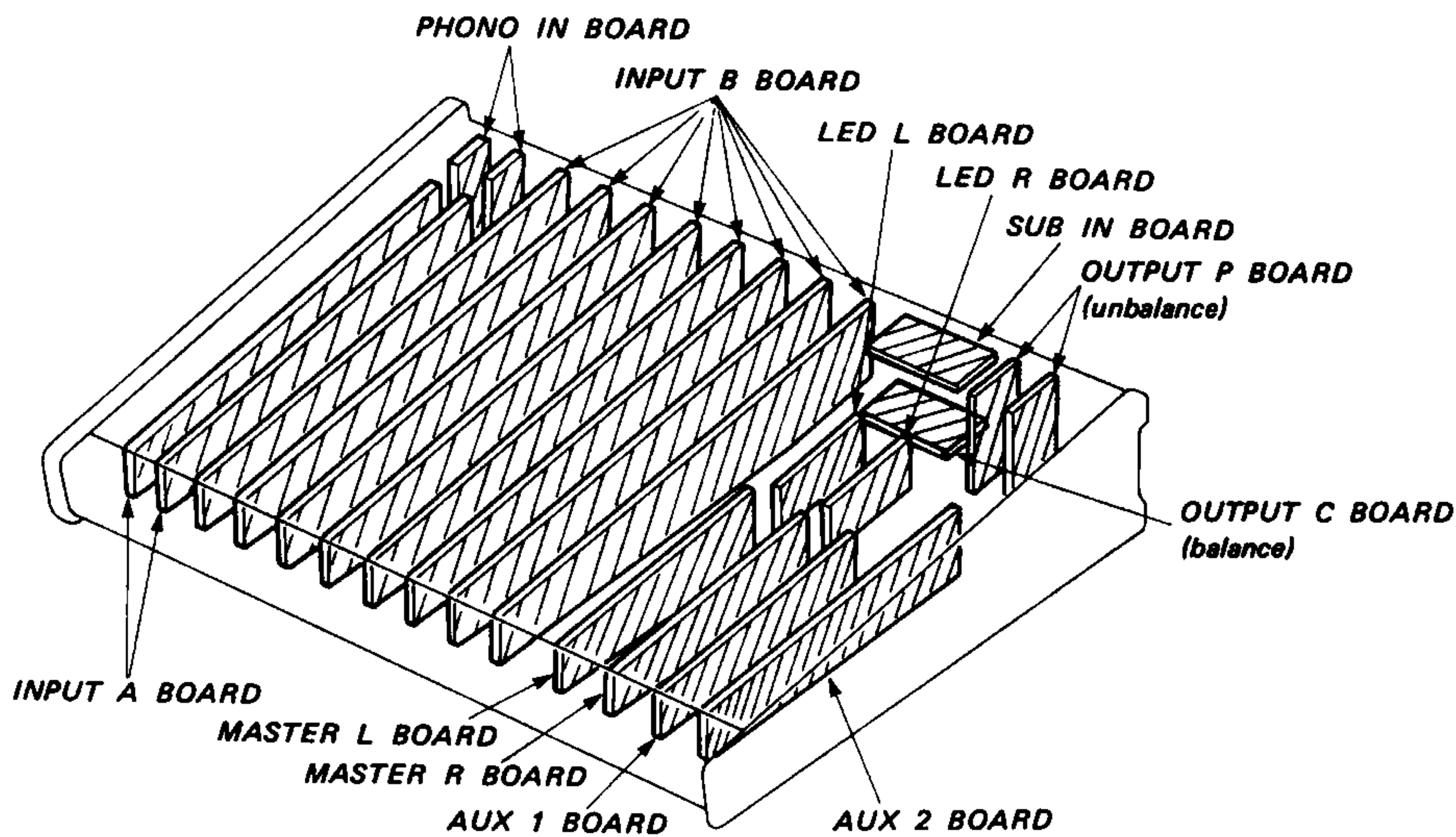
SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM

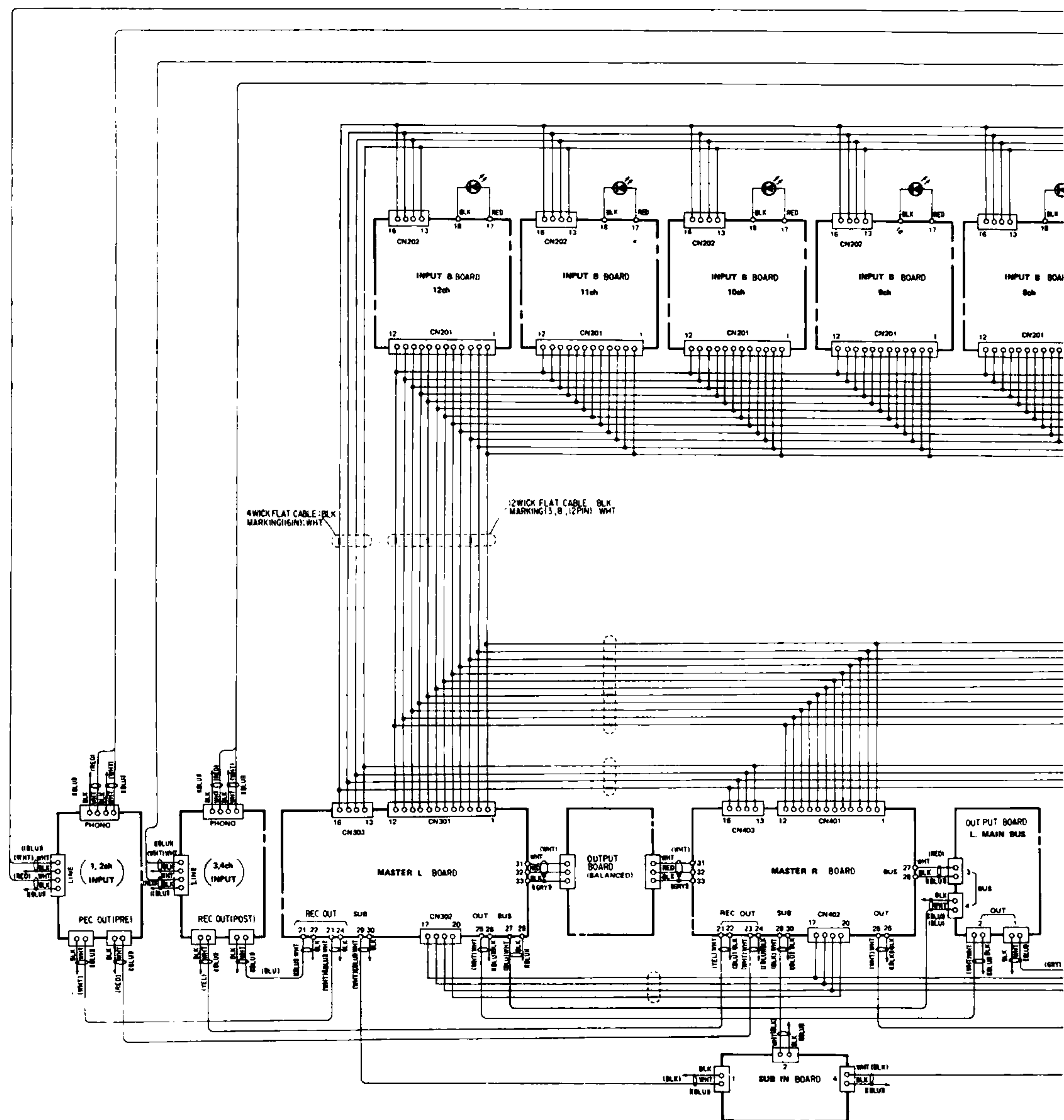


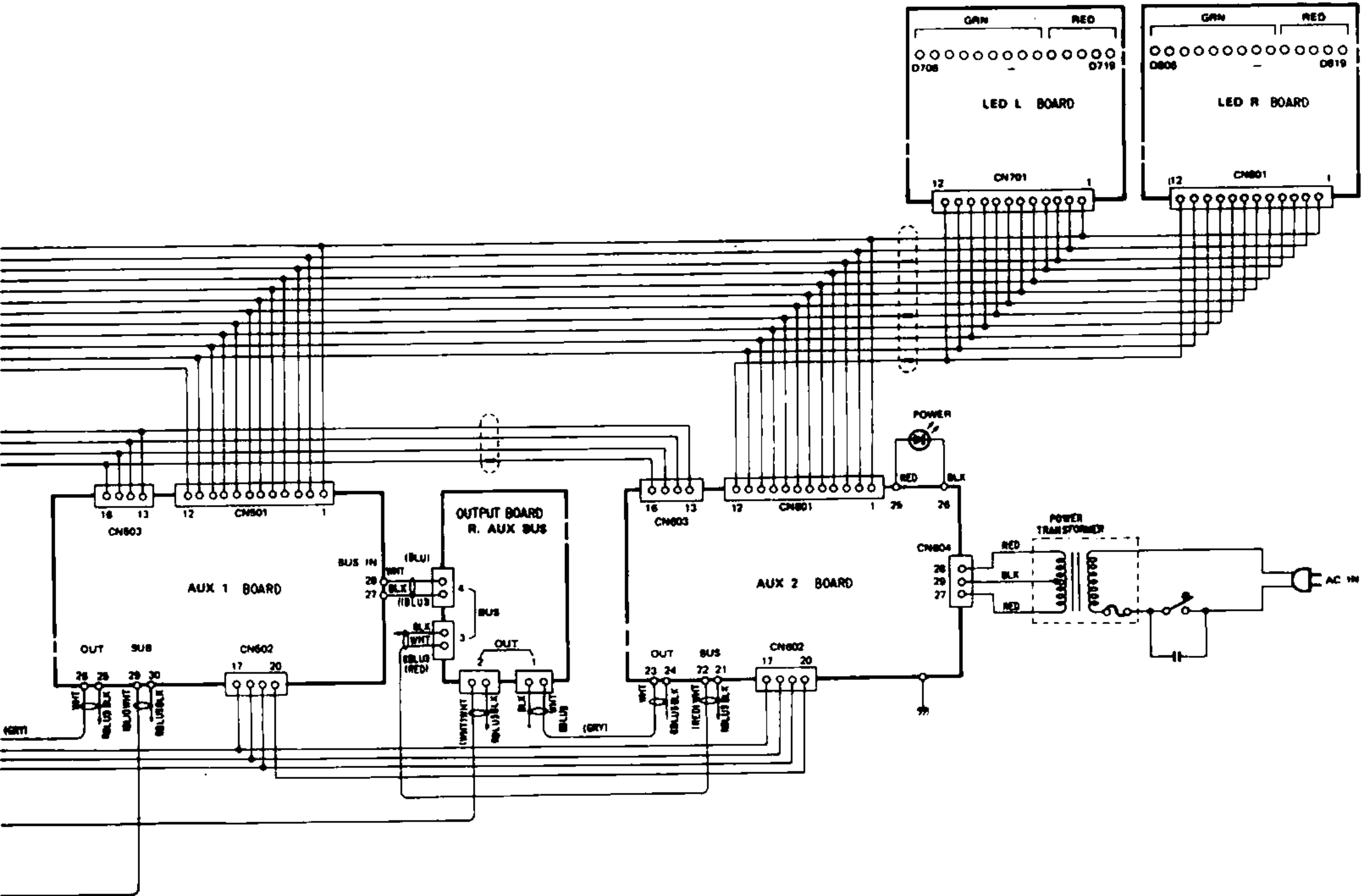
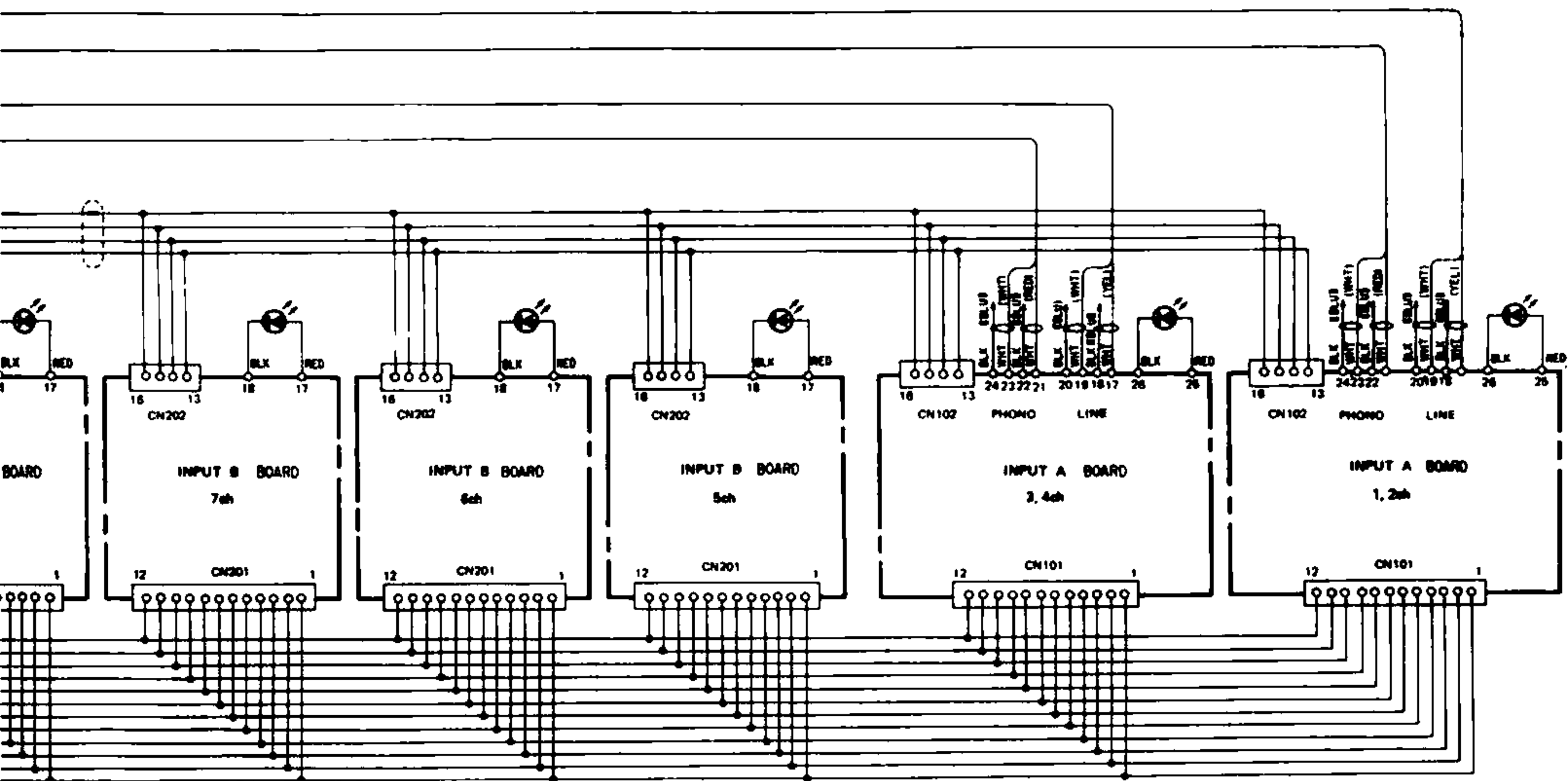
4-2. CIRCUIT BOARDS LOCATION

From the top of the set

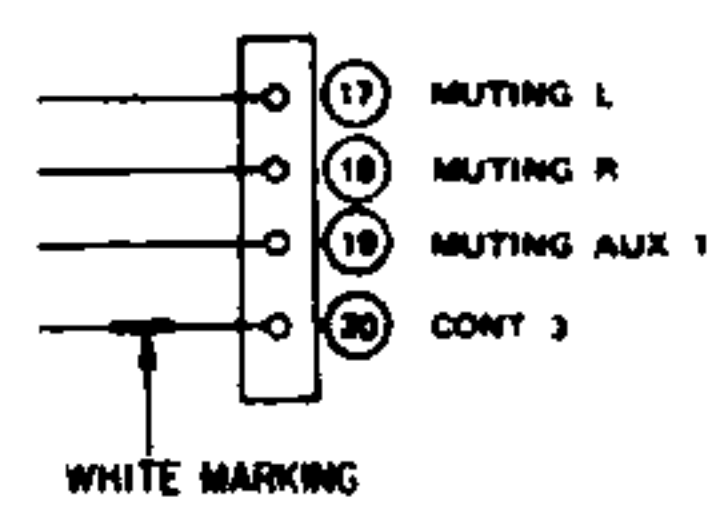
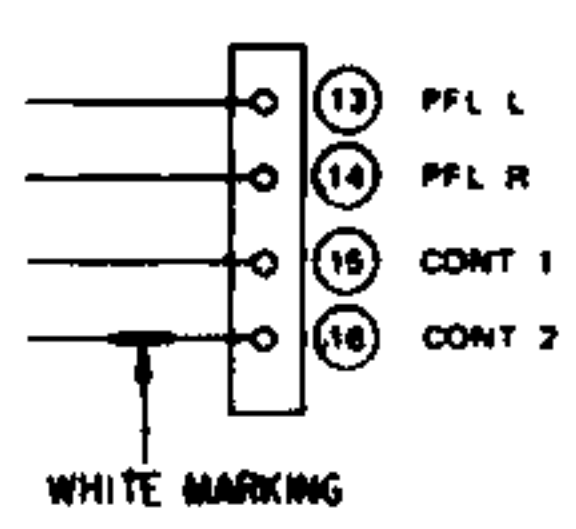
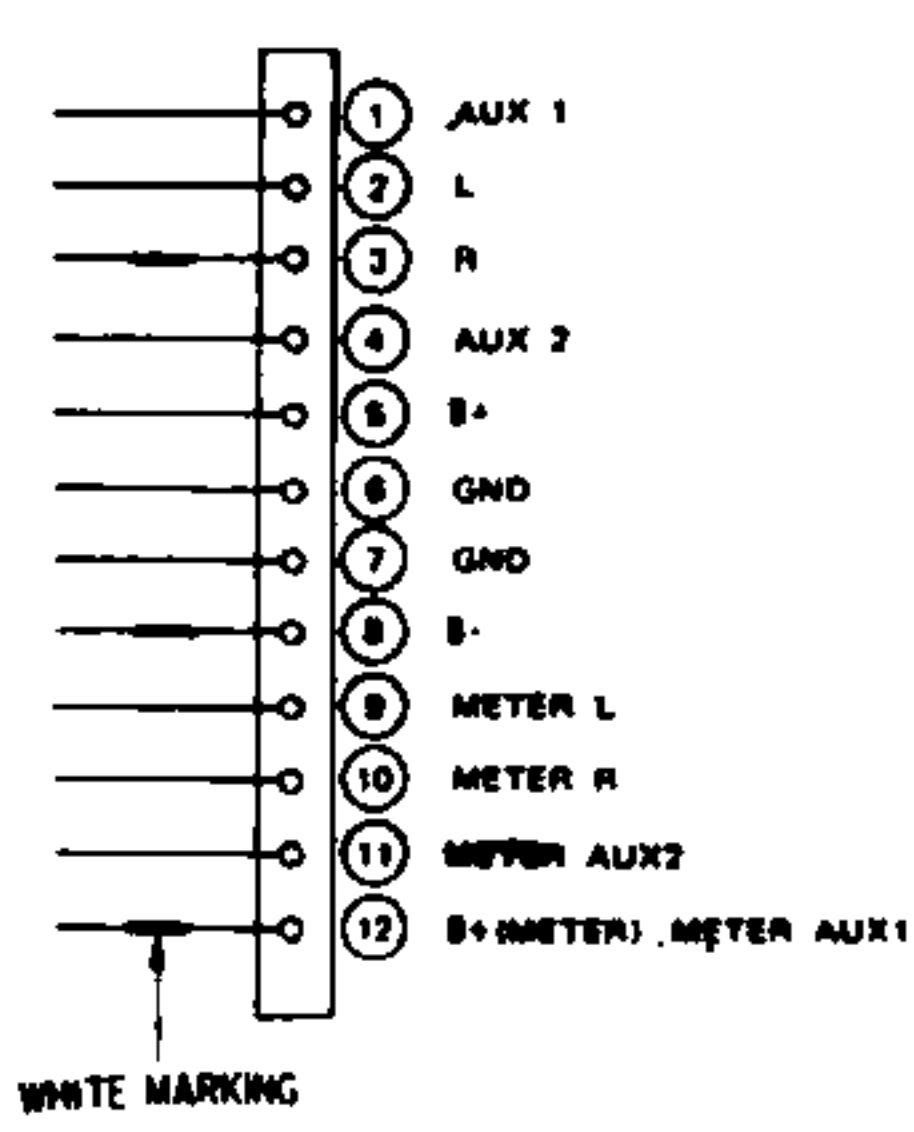


4-3. FRAME SCHEMATIC DIAGRAM

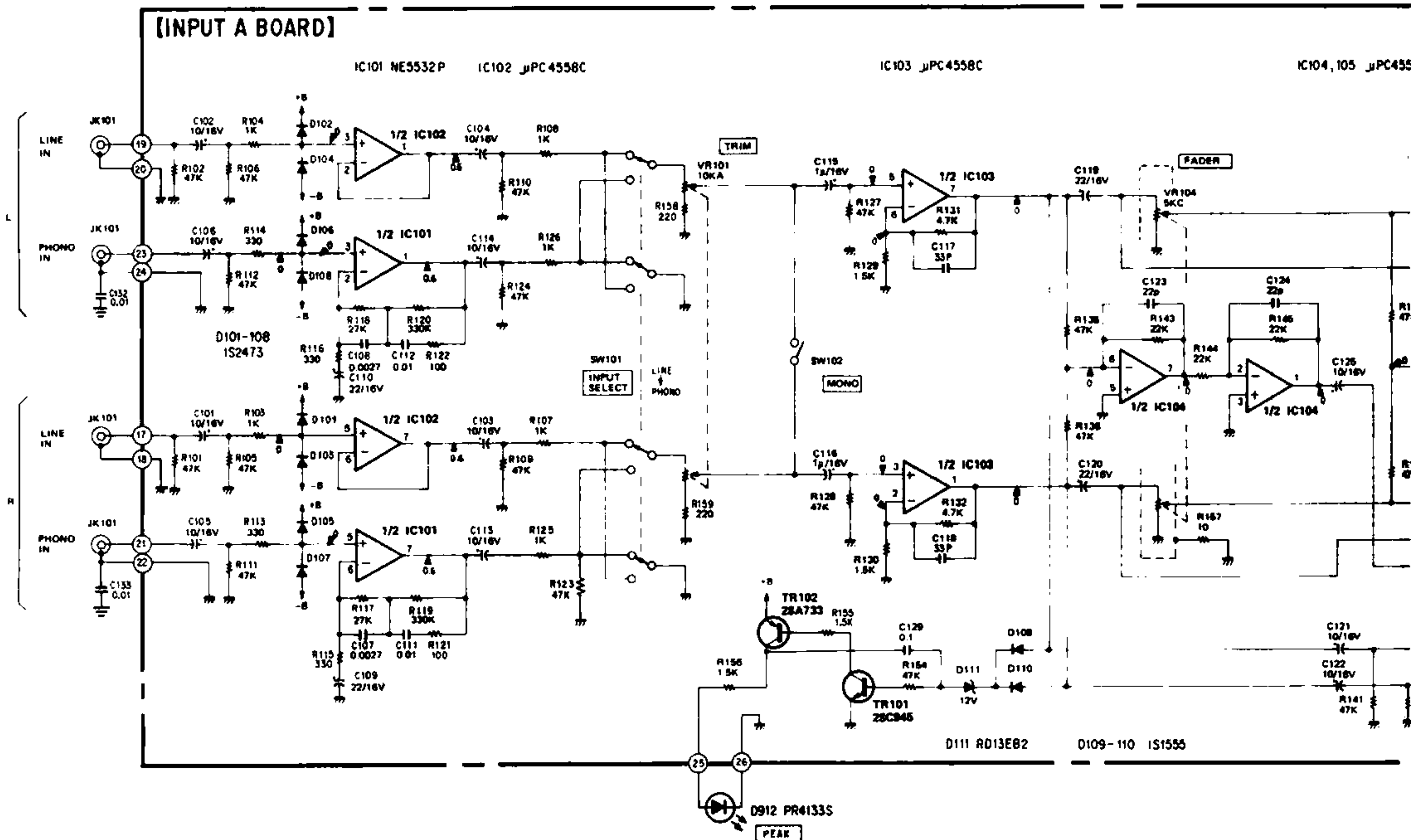




FLAT CABLE

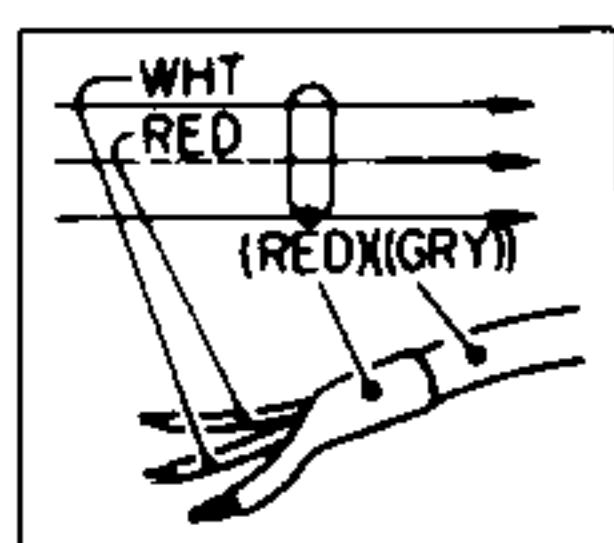


4-4. SCHEMATIC DIAGRAM - INPUT A BOARD -

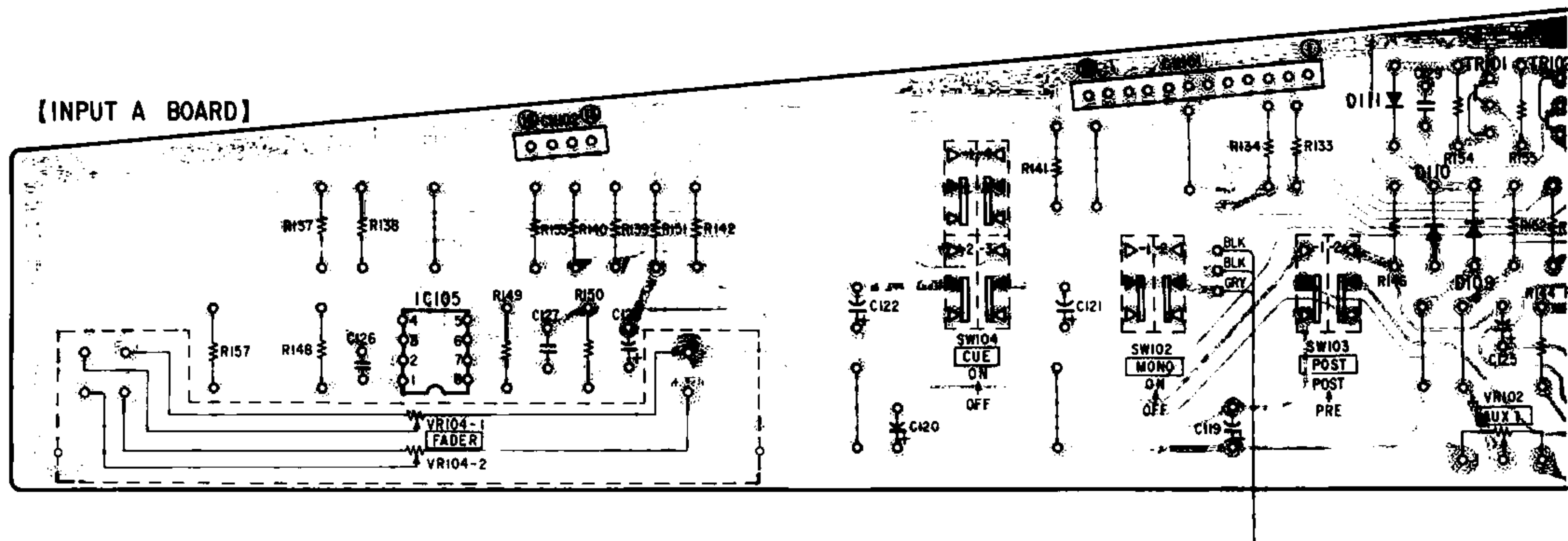


4-5. MOUNTING DIAGRAM - INPUT A BOARD -

- Color code of sleeving over the end of the jacket.

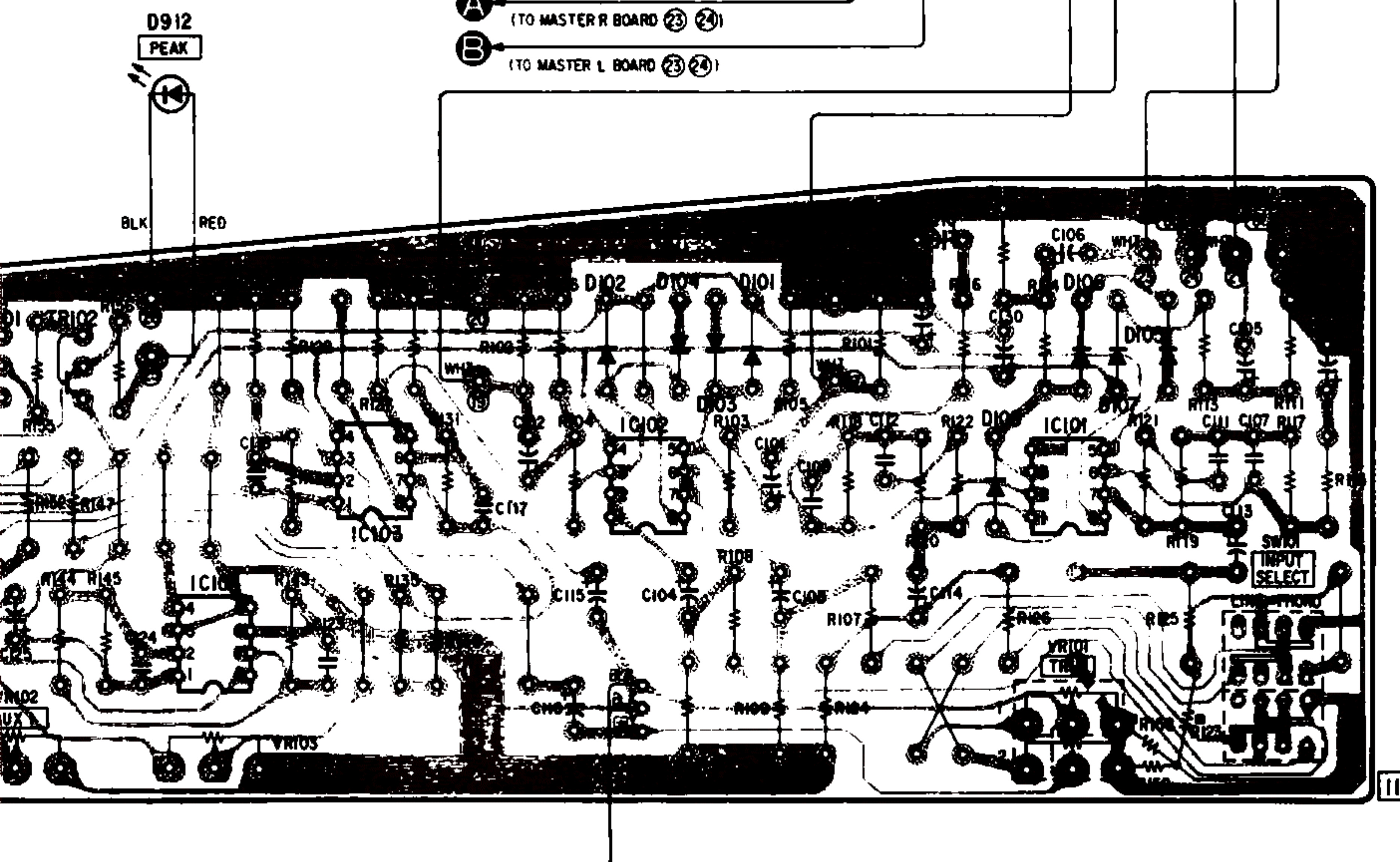


- — : parts extracted from the component side.
- — : parts extracted from the conductor side.
- : part mounted on the conductor side.

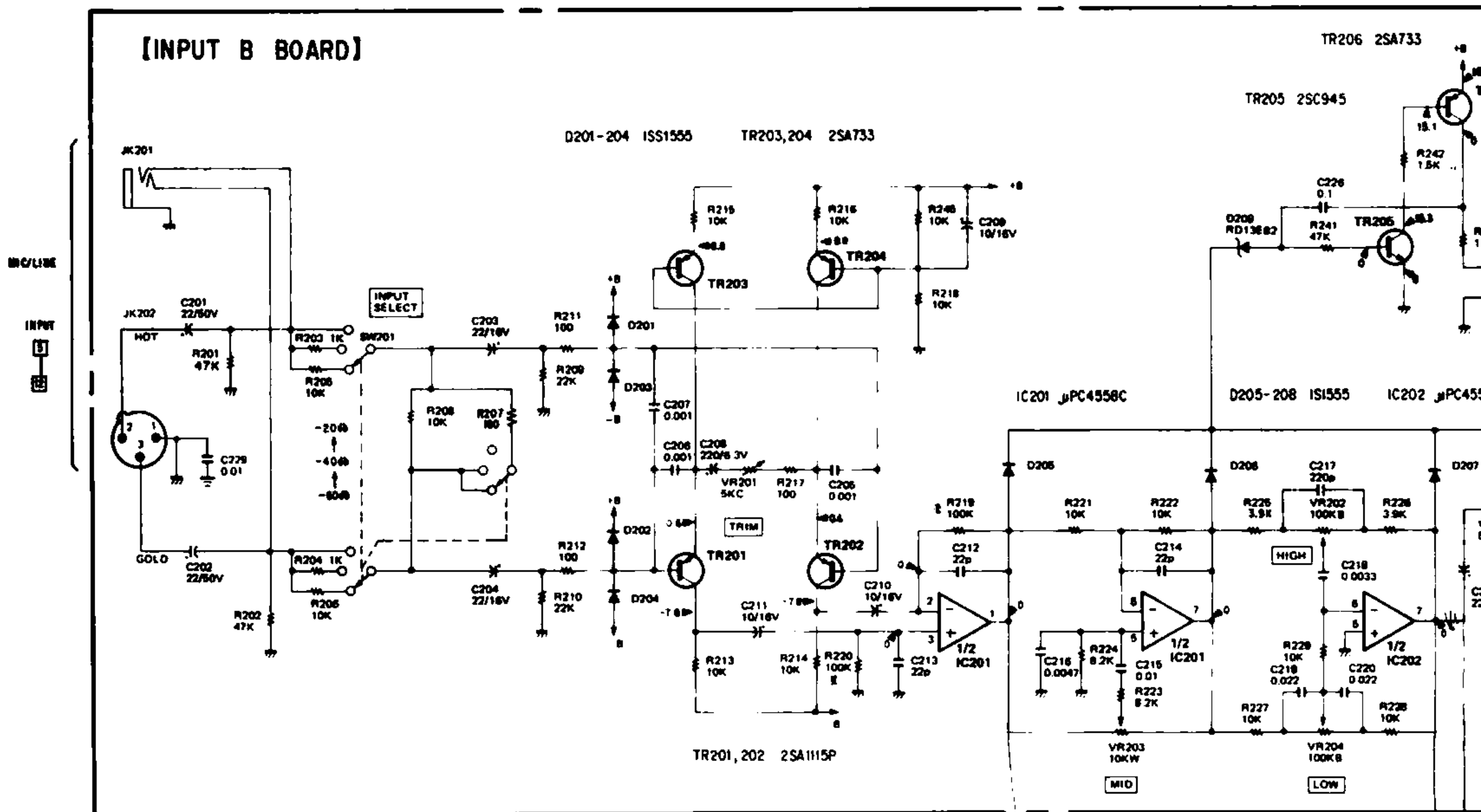


- **Switch**

- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50k Ω /V).
- Voltage variations may be noted due to normal production tolerances.

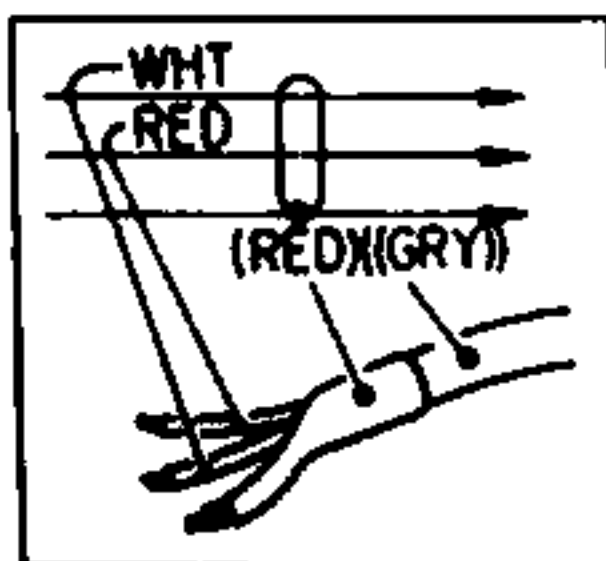


4.6. SCHEMATIC DIAGRAM - INPUT B BOARD -

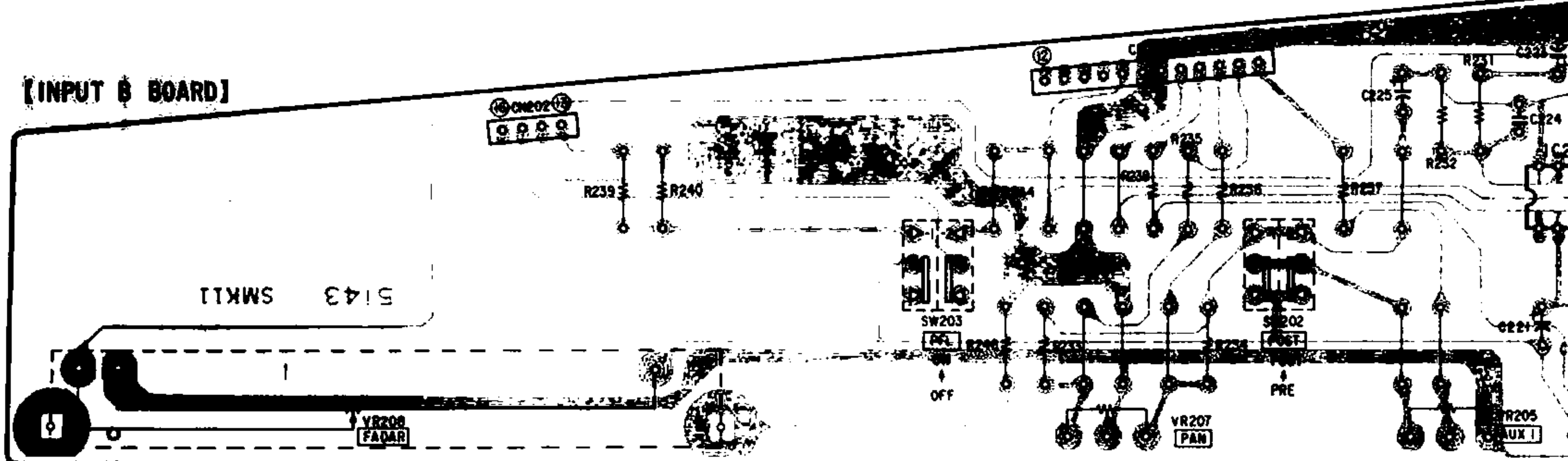


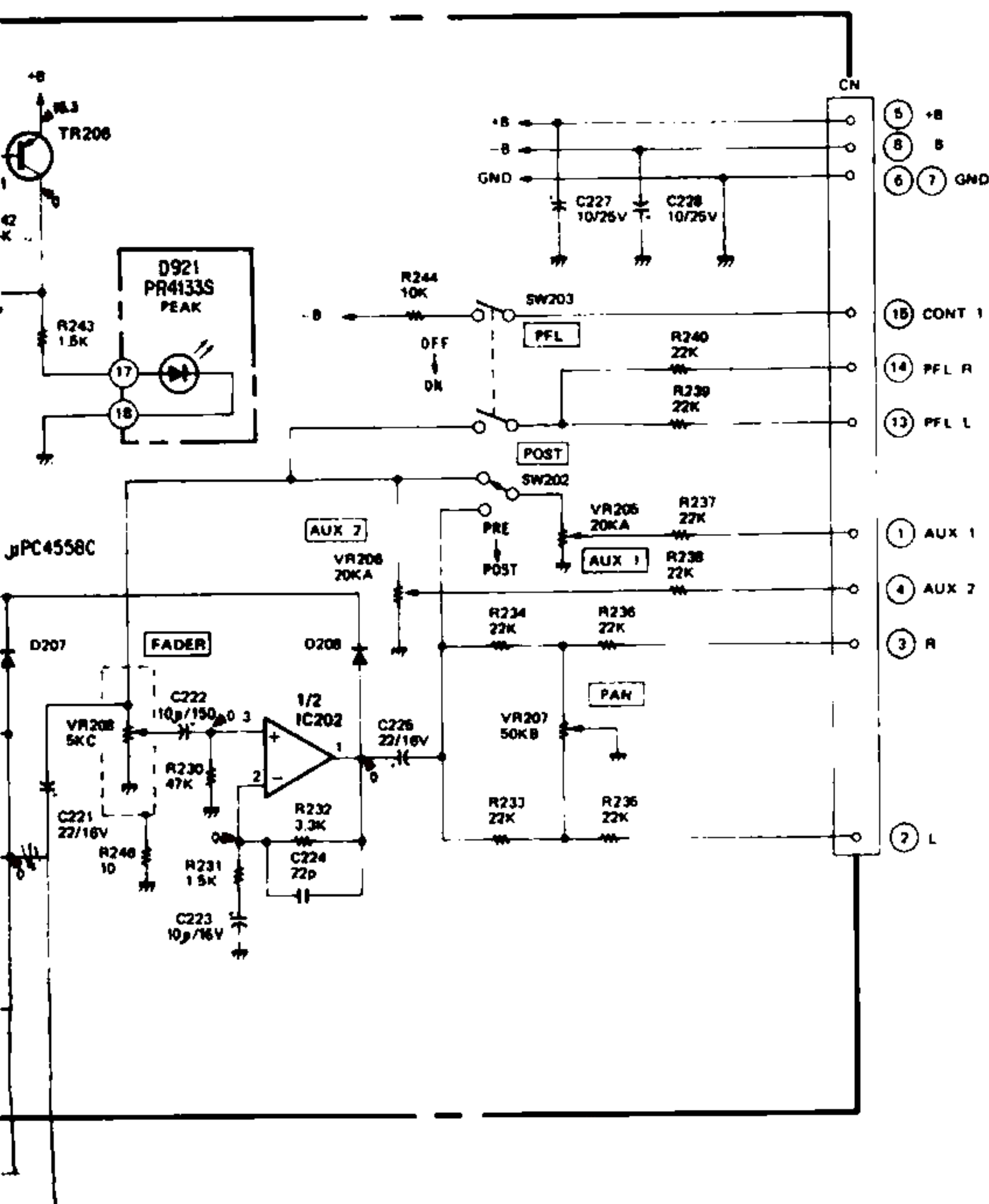
4.7. MOUNTING DIAGRAM - INPUT B BOARD -

- Color code of sleeving over the end of the jacket.



- ○ — : parts extracted from the component side.
- ● — : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.





- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.

- Switch

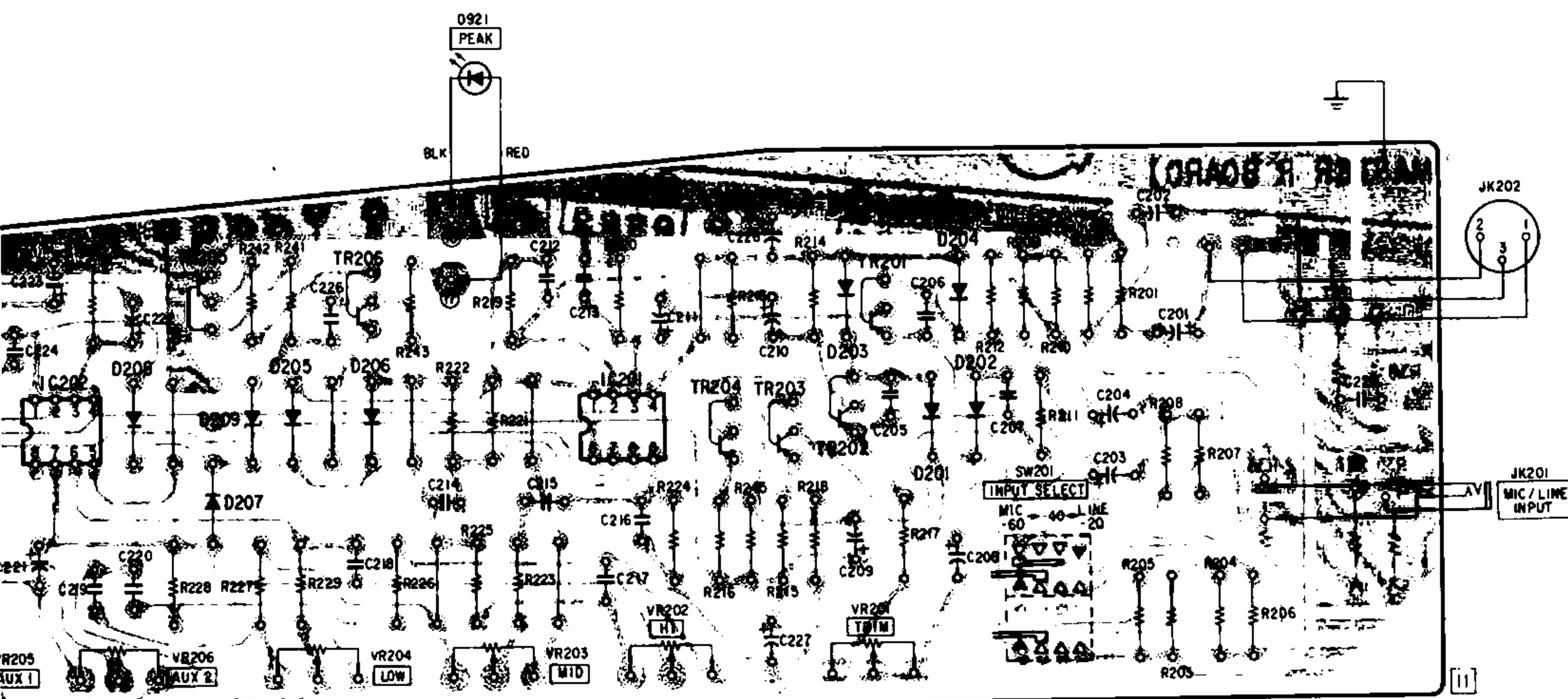
Ref. No.	Switch	Position
SW201	INPUT SELECT	-60dB
SW202	POST	PRE
SW203	PFL	OFF

- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50k Ω /V).
- Voltage variations may be noted due to normal production tolerances.

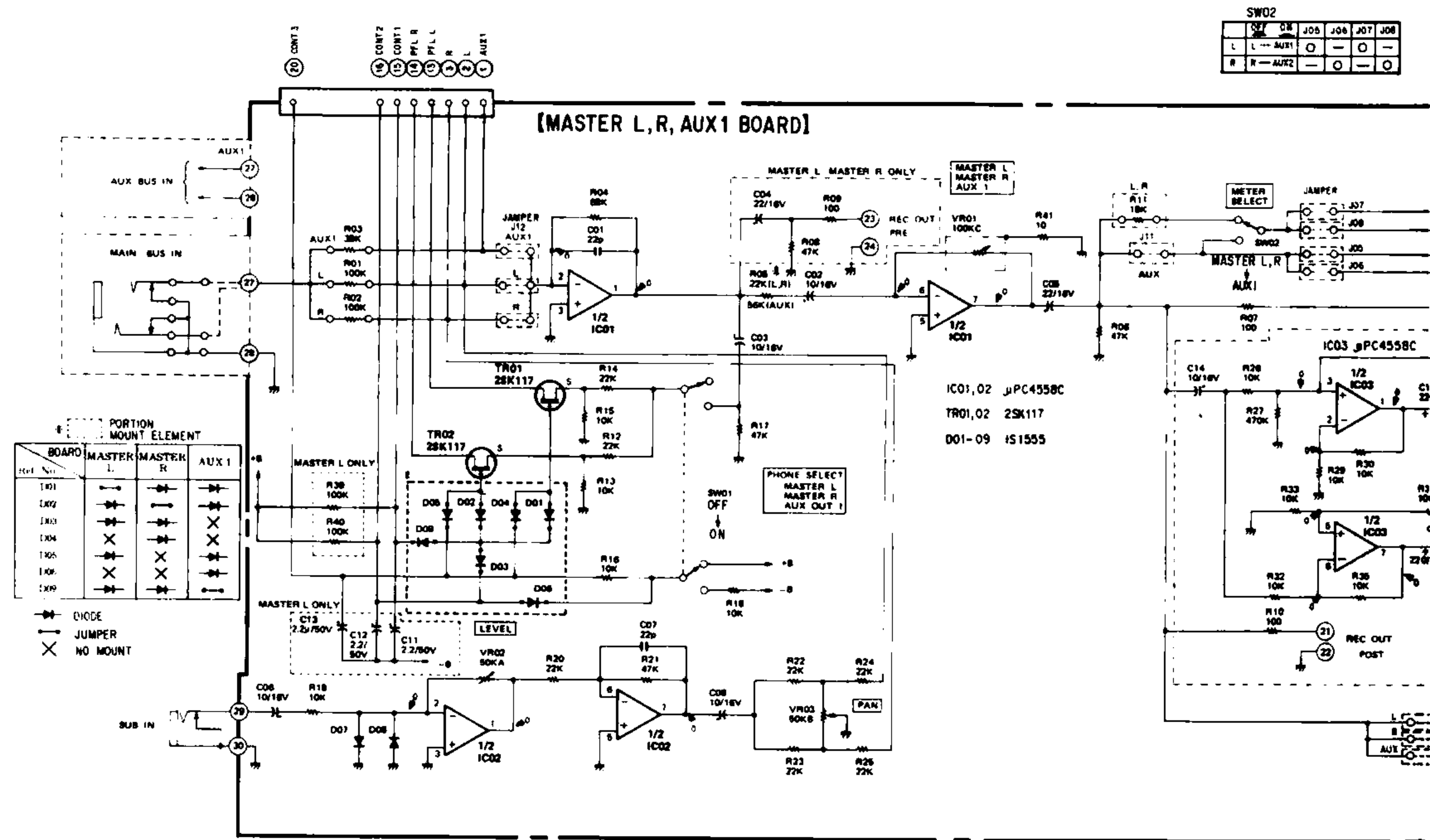
- * R219, R220

Serial No. 200,001 – 200,300: 100 Ω

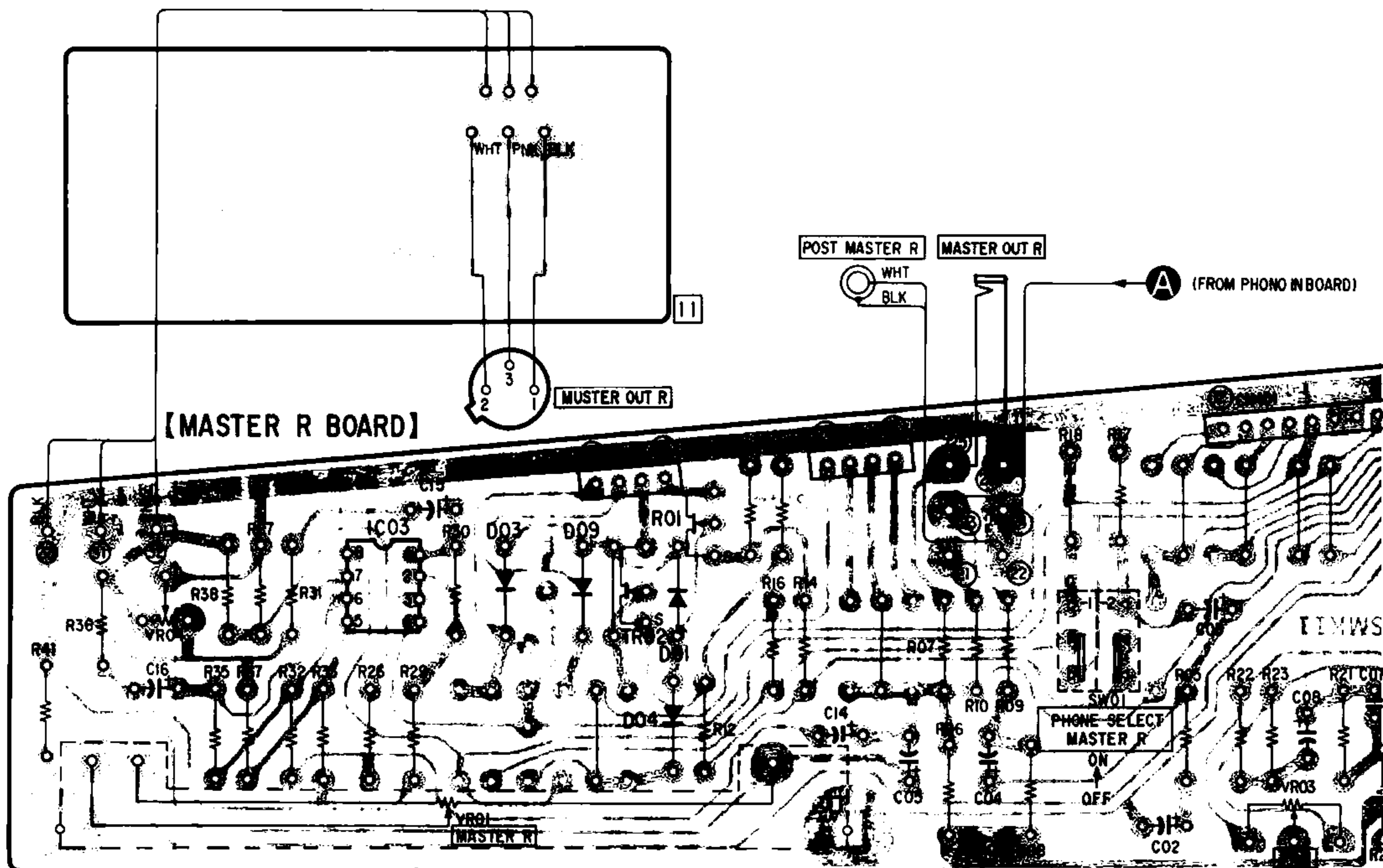
Except the above mentined Serial No.: 220k Ω



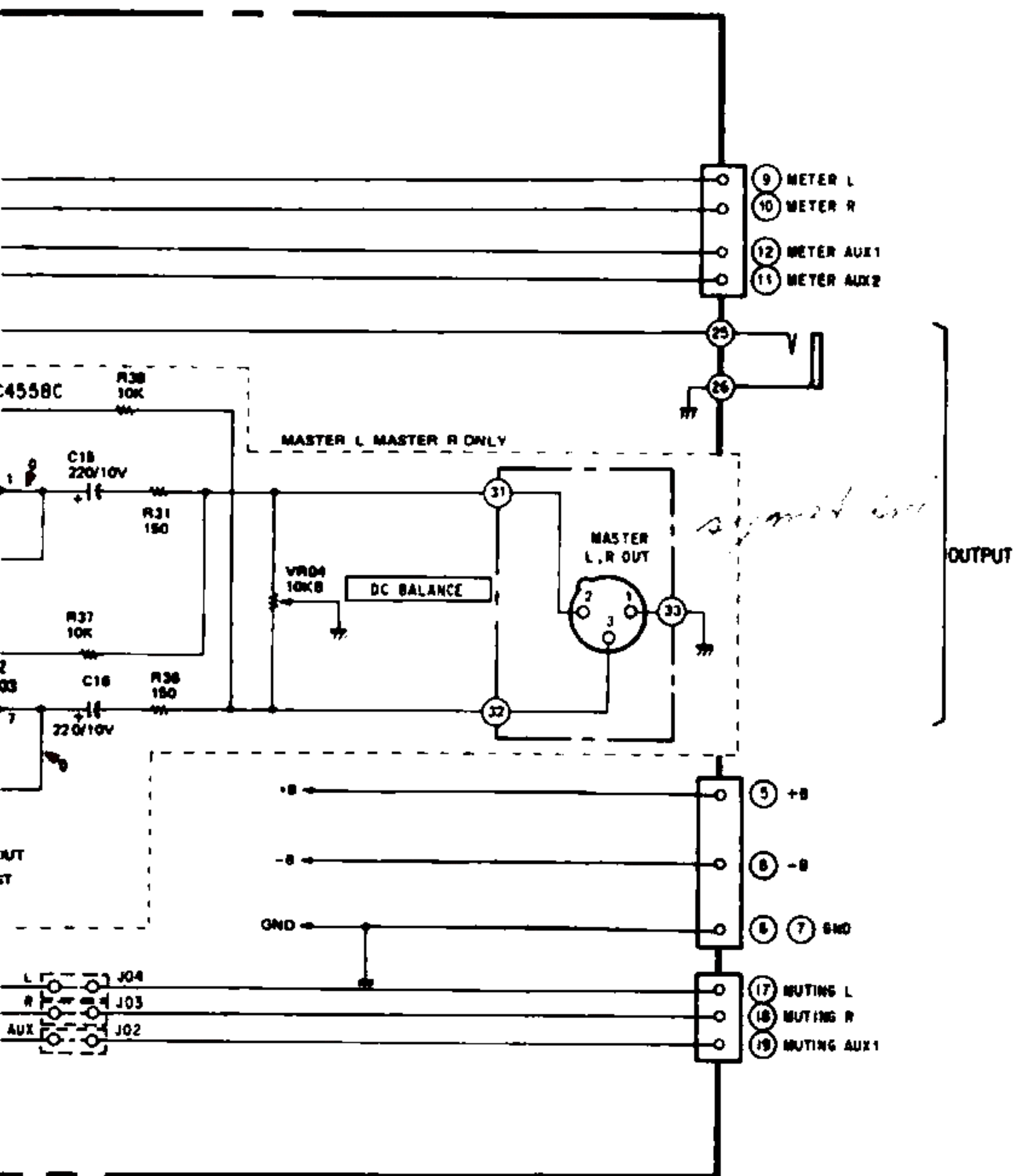
4-8. SCHEMATIC DIAGRAM - MASTER L/MASTER R/AUX 1 BOARD -



4-9. MOUNTING DIAGRAM - MASTER L BOARD -



JOB
-
O



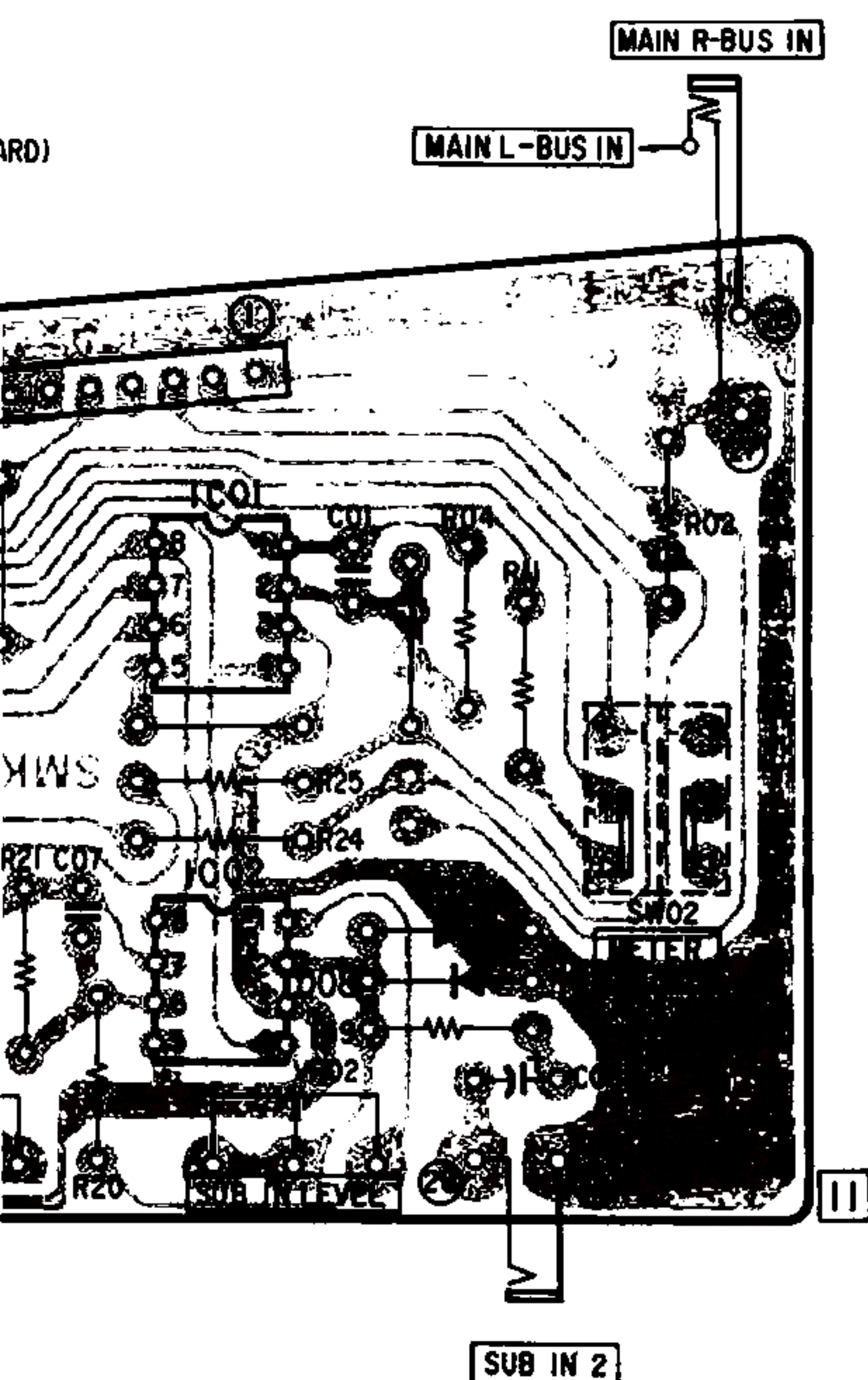
- All capacitors are in μF unless otherwise noted. pF: $\mu\mu F$
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- Switch

Ref. No.	Switch	Position
SW01	PHONE SELECT	OFF
SW02	MASTER SELECT	LR

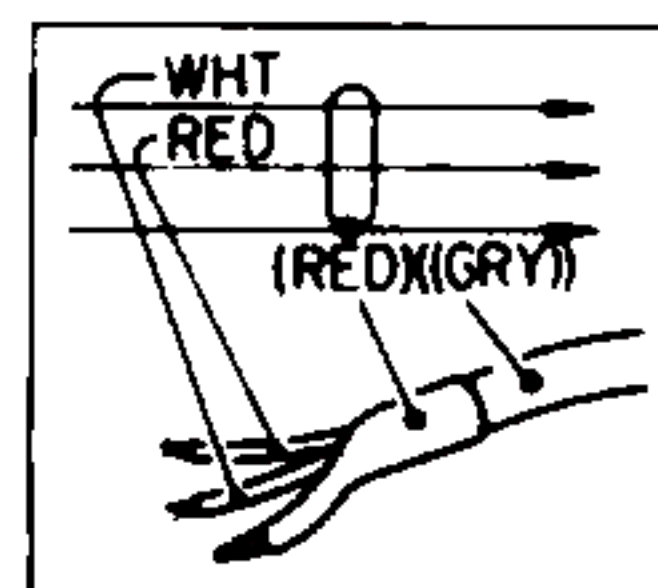
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM (50k Ω/V).
- Voltage variations may be noted due to normal production tolerances.

• R05

Serial No. 200,001 – 200,300
MASTER L, R Board: 22k Ω
AUX 1 Board: 56k Ω
Except the above mentioned Serial No.
MASTER L, R Board: 47k Ω
AUX 1 Board: 120k Ω

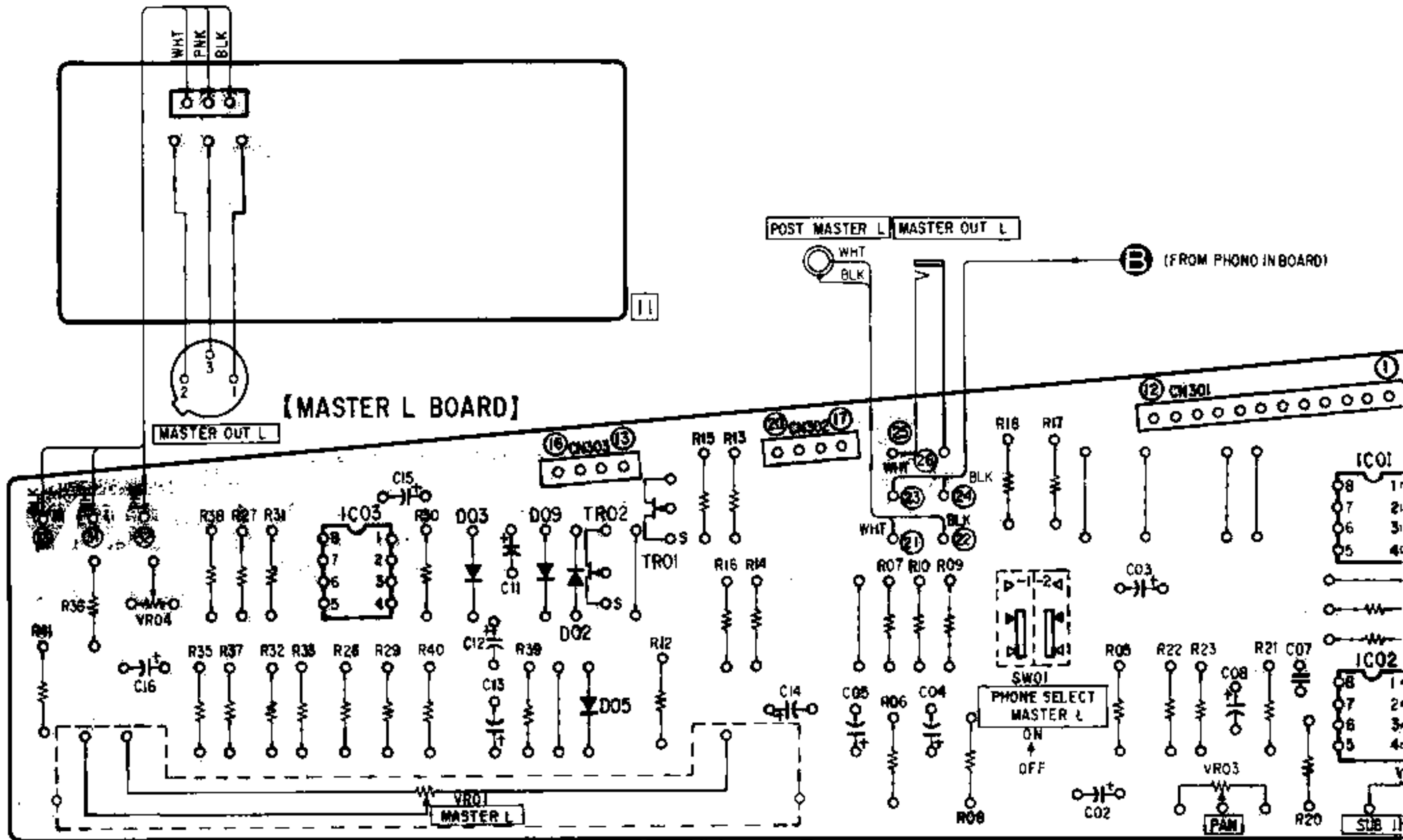


- Color code of sleeving over the end of the jacket.

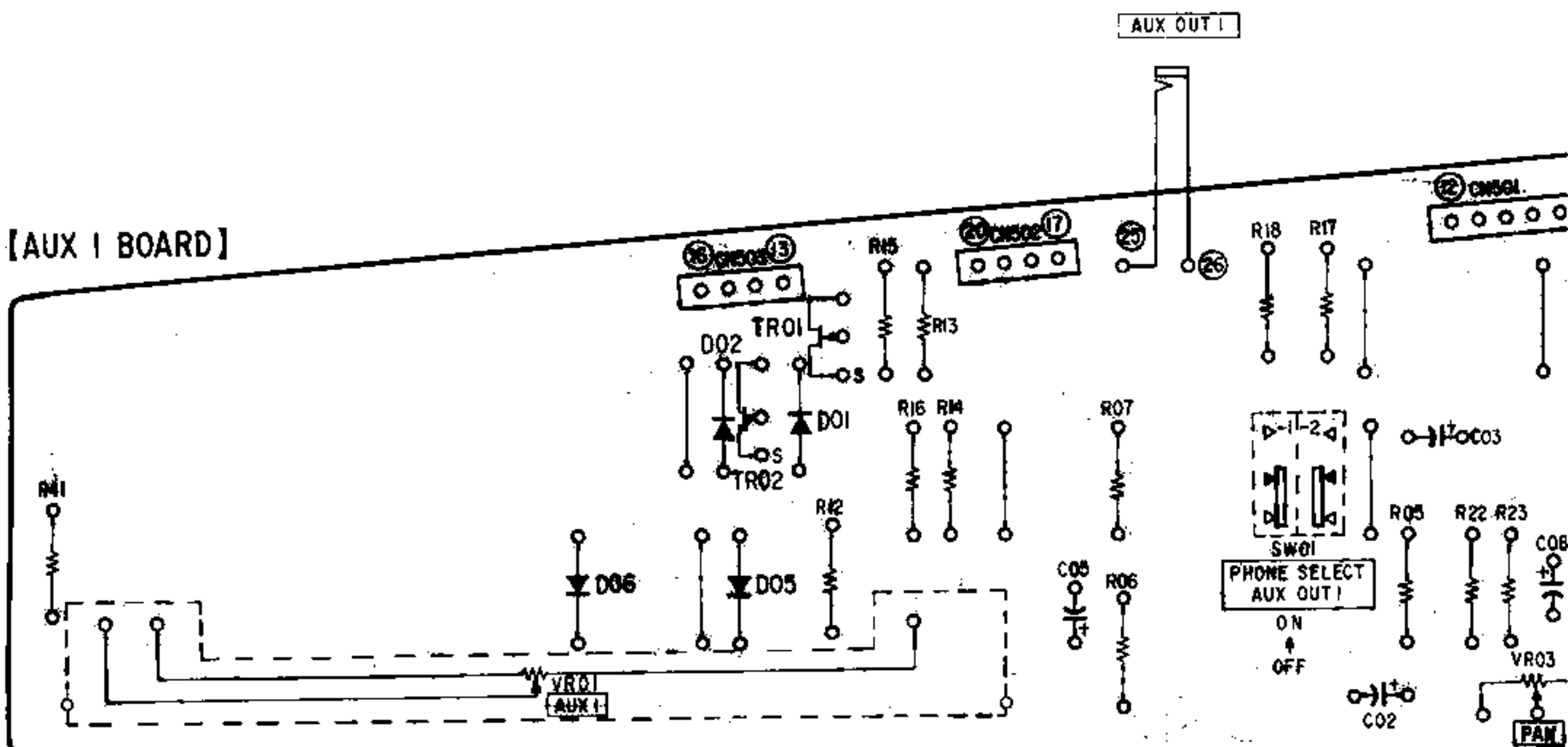


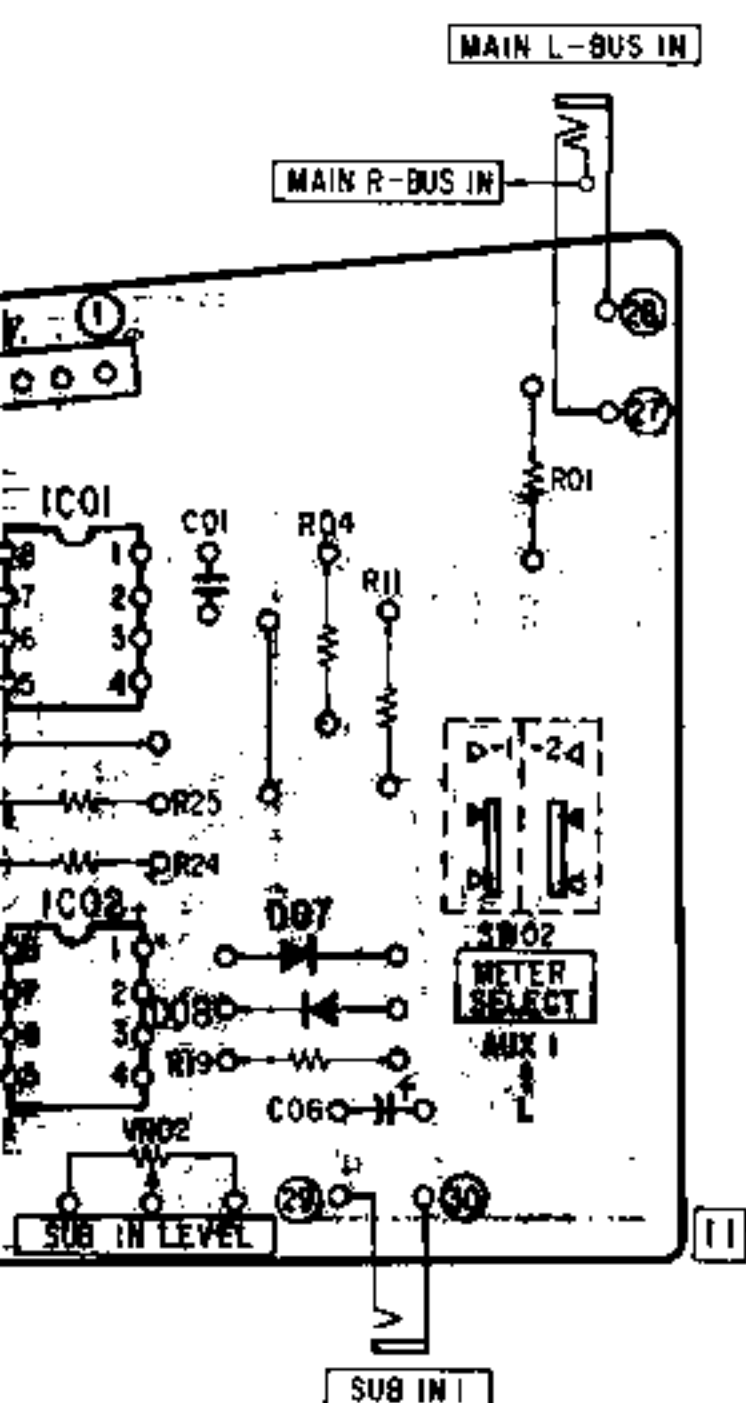
- ○ : parts extracted from the component side.
- ● : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.

4-10. MOUNTING DIAGRAM - MASTER R BOARD -

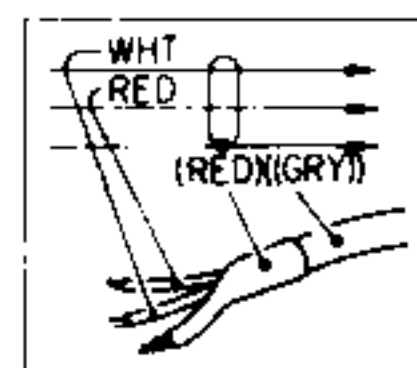


4-11. MOUNTING DIAGRAM - AUX 1 BOARD -

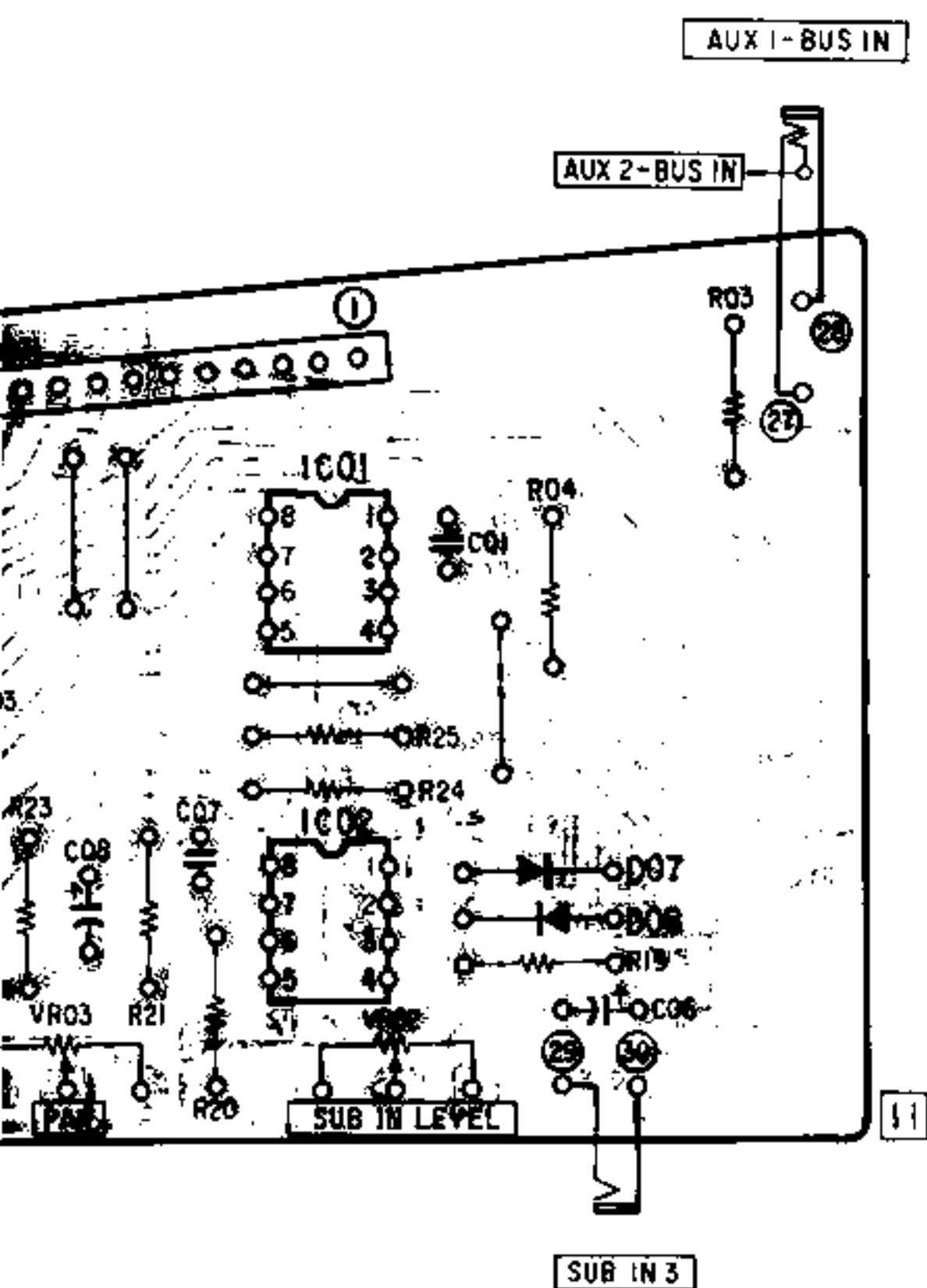




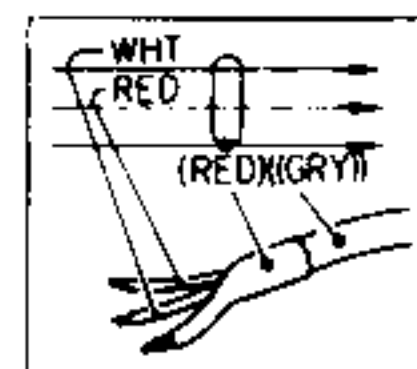
- Color code of sleeving over the end of the jacket.



- ○ : parts extracted from the component side.
- ● : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.

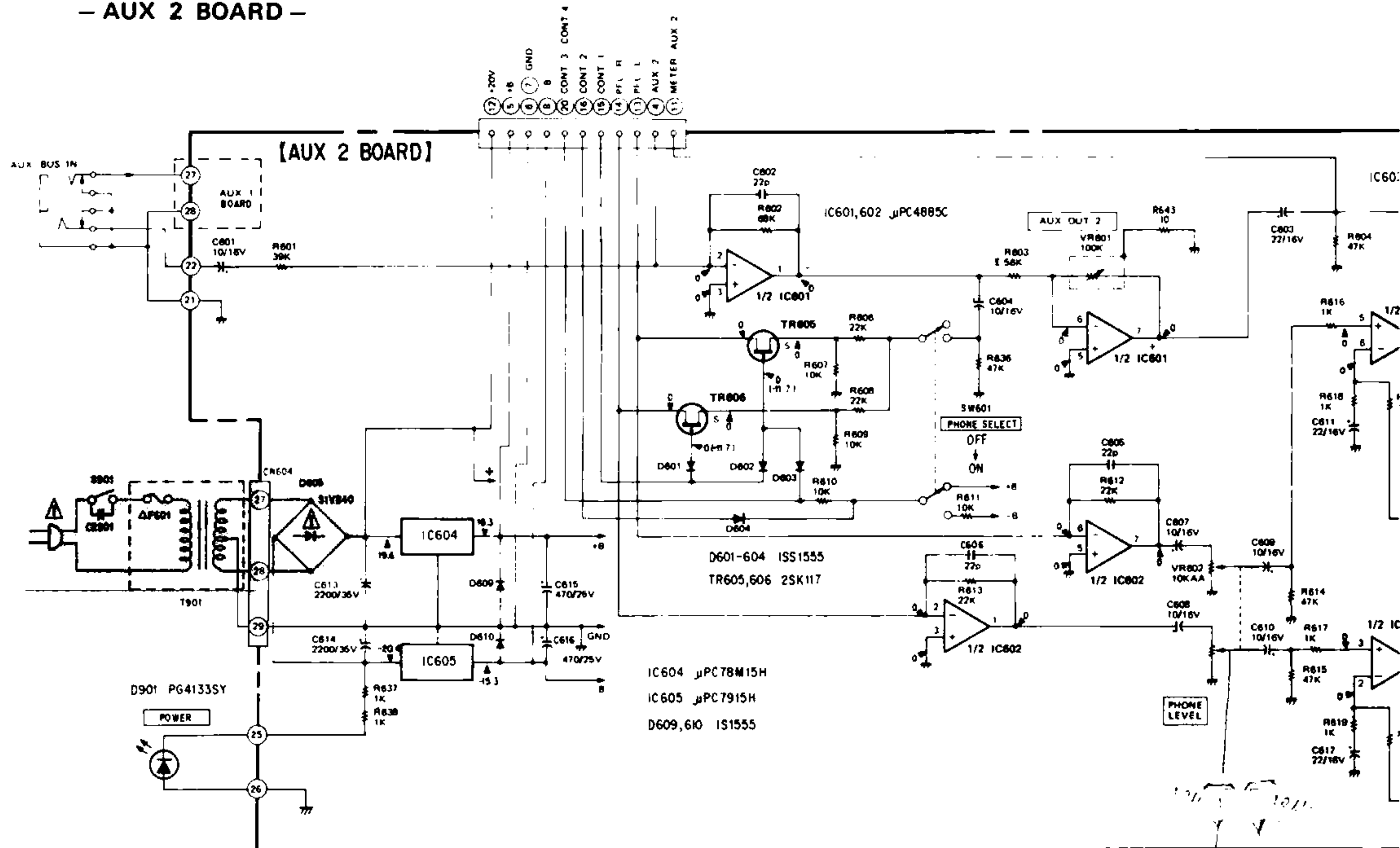


- Color code of sleeving over the end of the jacket.



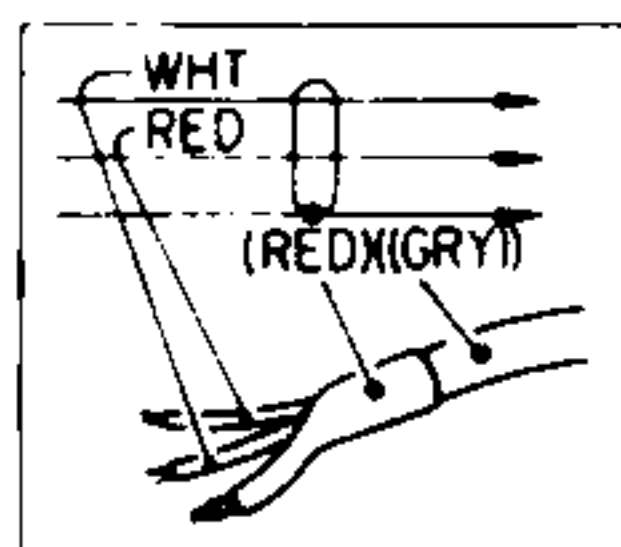
- ○ : parts extracted from the component side.
- ● : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.

4-12. SCHEMATIC DIAGRAM
- AUX 2 BOARD -

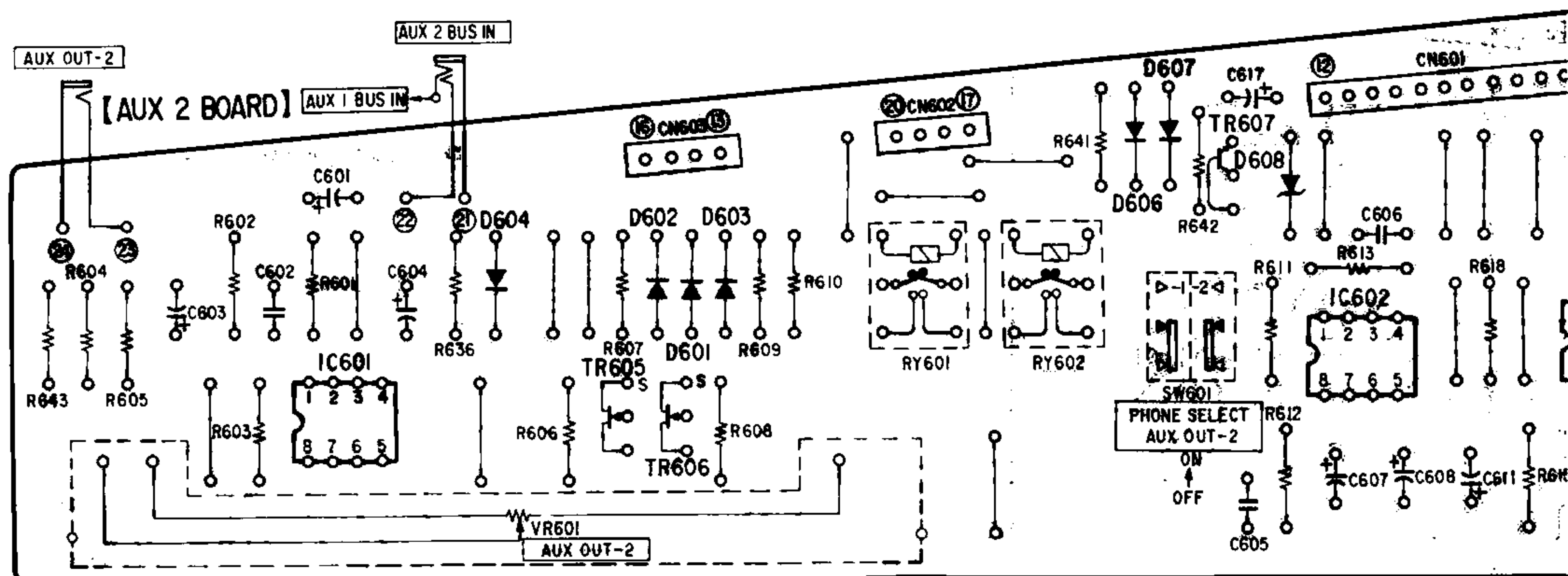


4-13. MOUNTING DIAGRAM - AUX 2 BOARD -

- Color code of sleeving over the end of the jacket.



- — : parts extracted from the component side.
- — : parts extracted from the conductor side.
- : part mounted on the conductor side.



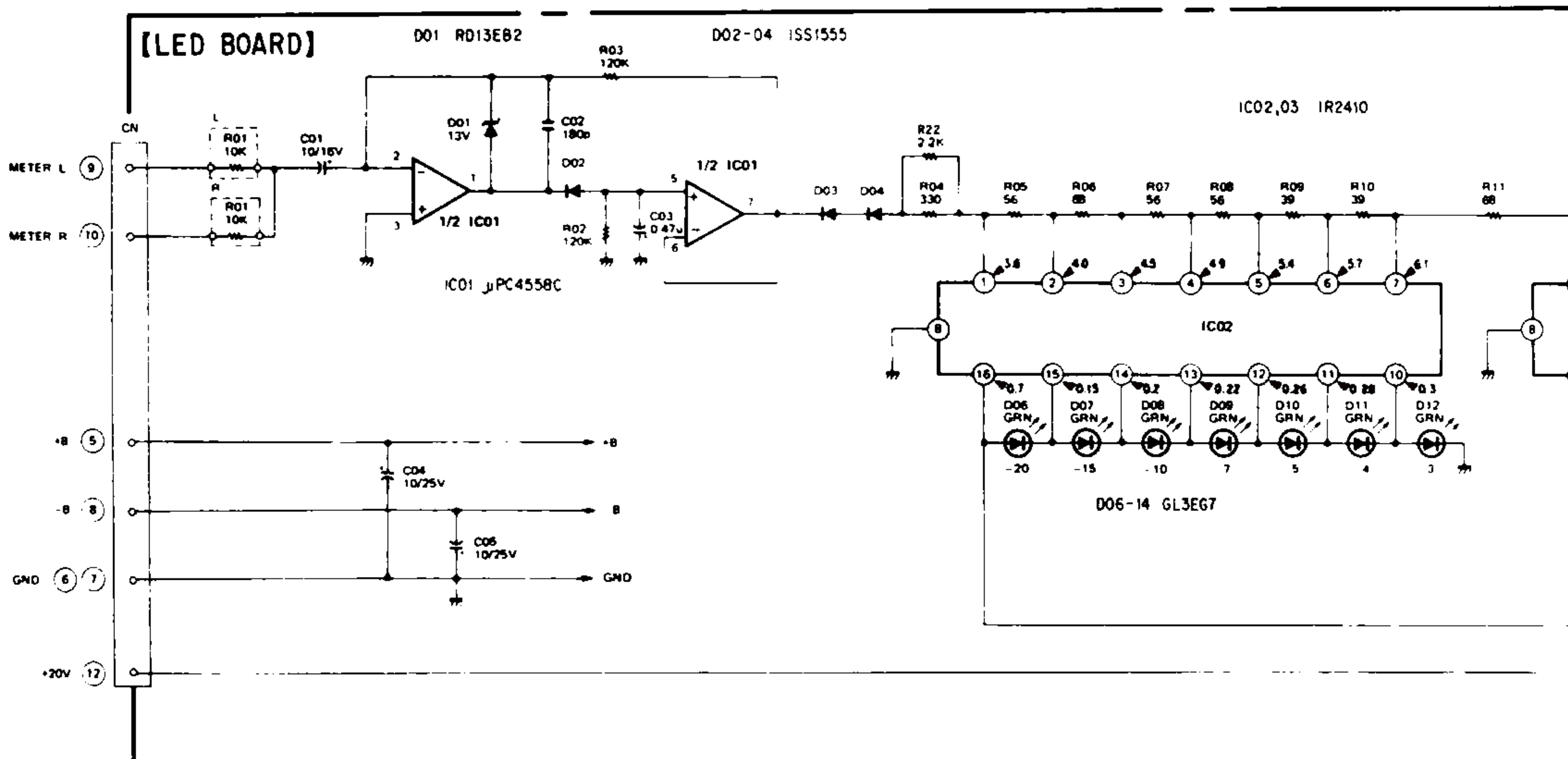


- | Ref. No. | Switch | Position |
|----------|--------------|----------|
| SW601 | PHONE SELECT | OFF |
| SW901 | POWER | OFF |

- Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.**

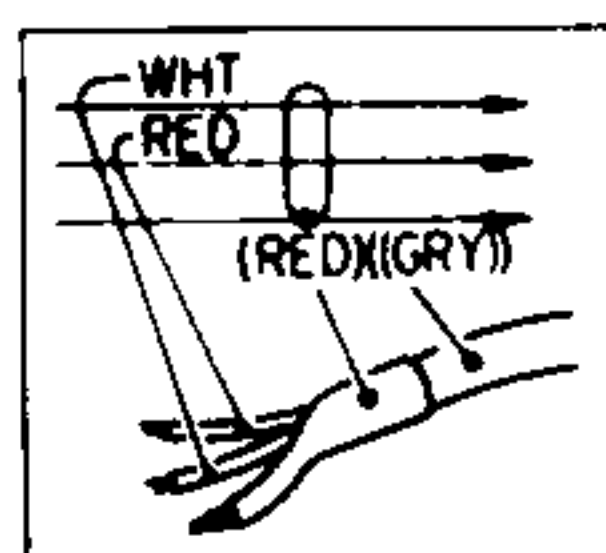


4-14. SCHEMATIC DIAGRAM — LED L, (R) BOARD —

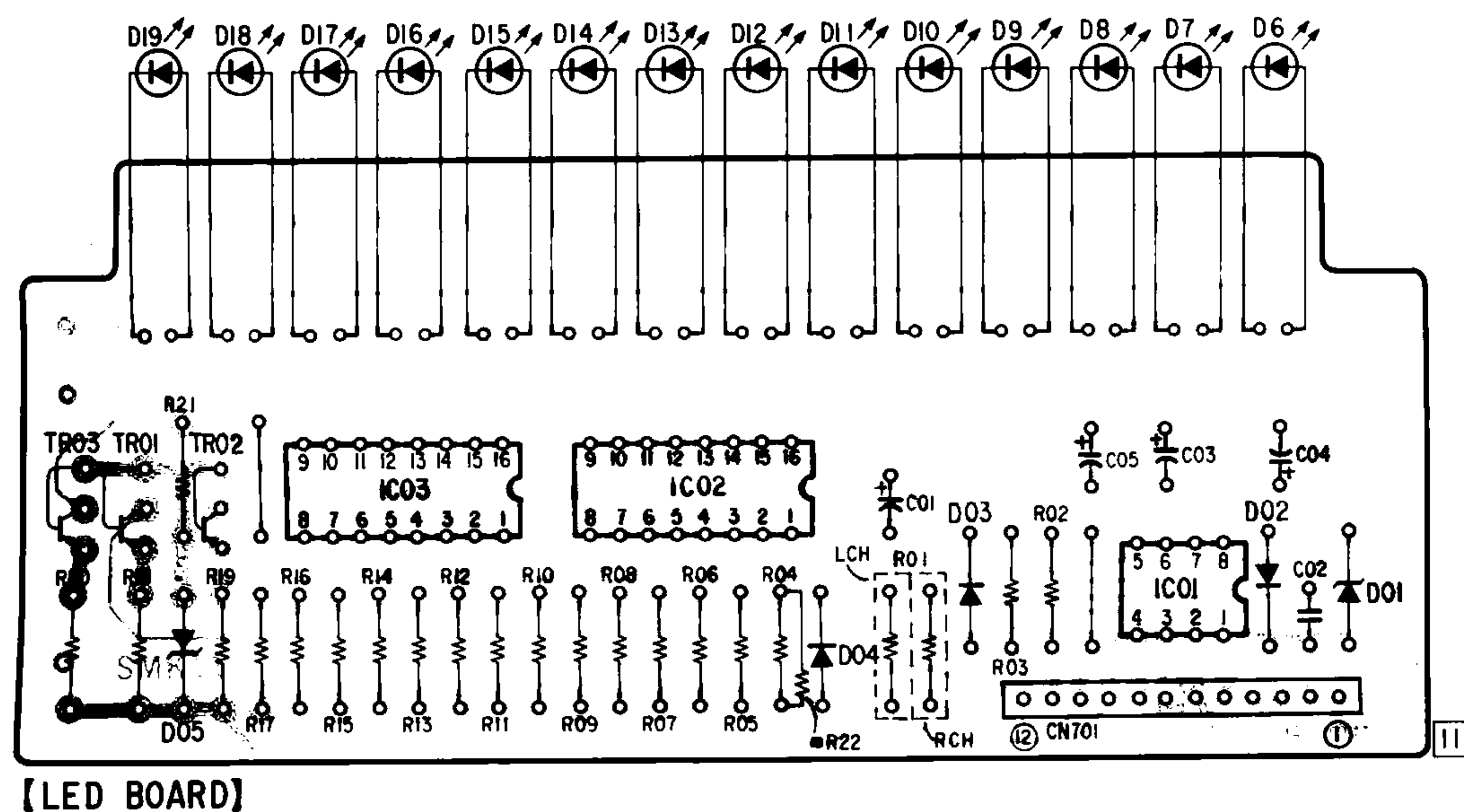


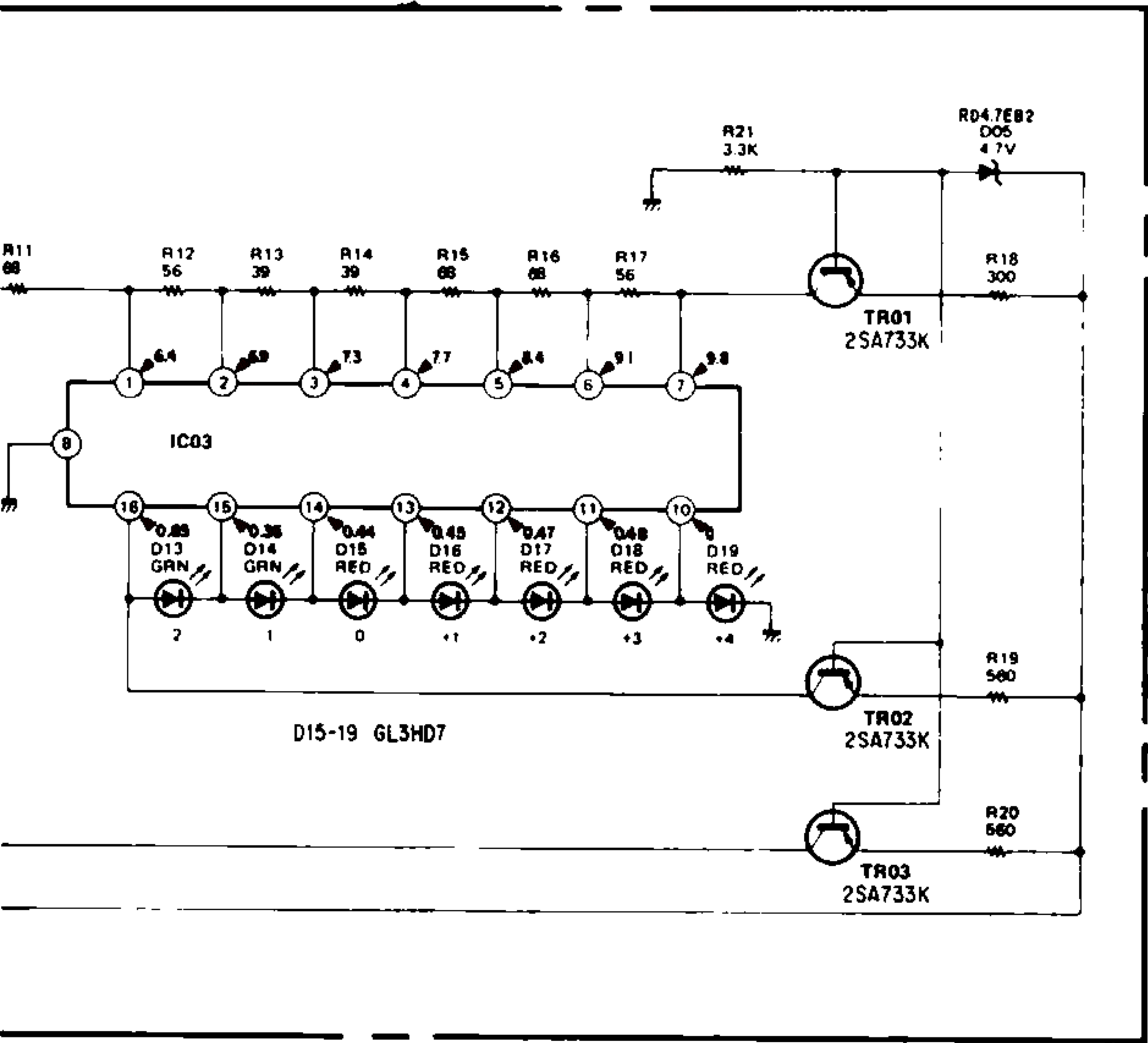
4-15. MOUNTING DIAGRAM — LED L, (R) BOARD —

• Color code of sleeving over the end of the jacket.



- ○ — : parts extracted from the component side.
- ● — : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.





- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions with a VOM ($50\text{k}\Omega/\text{V}$).
- Voltage variations may be noted due to normal production tolerances.

• Semiconductor Lead Layouts

PR4133S PD4133SY	SIVB40	2SK117	$\mu\text{PC78M15H}$
GL3EG7 GL3HD7	2SA733	2SB560D 2SD438D	$\mu\text{PC7915H}$
1S1555 RD13E-B2 RD6.2E-B2 RD4.7E-B2	2SC945 2SA1115P	$\mu\text{PC4558C}$ NP5532P	IR2410

SECTION 5 EXPLODED VIEW AND PARTS LIST

NOTE:

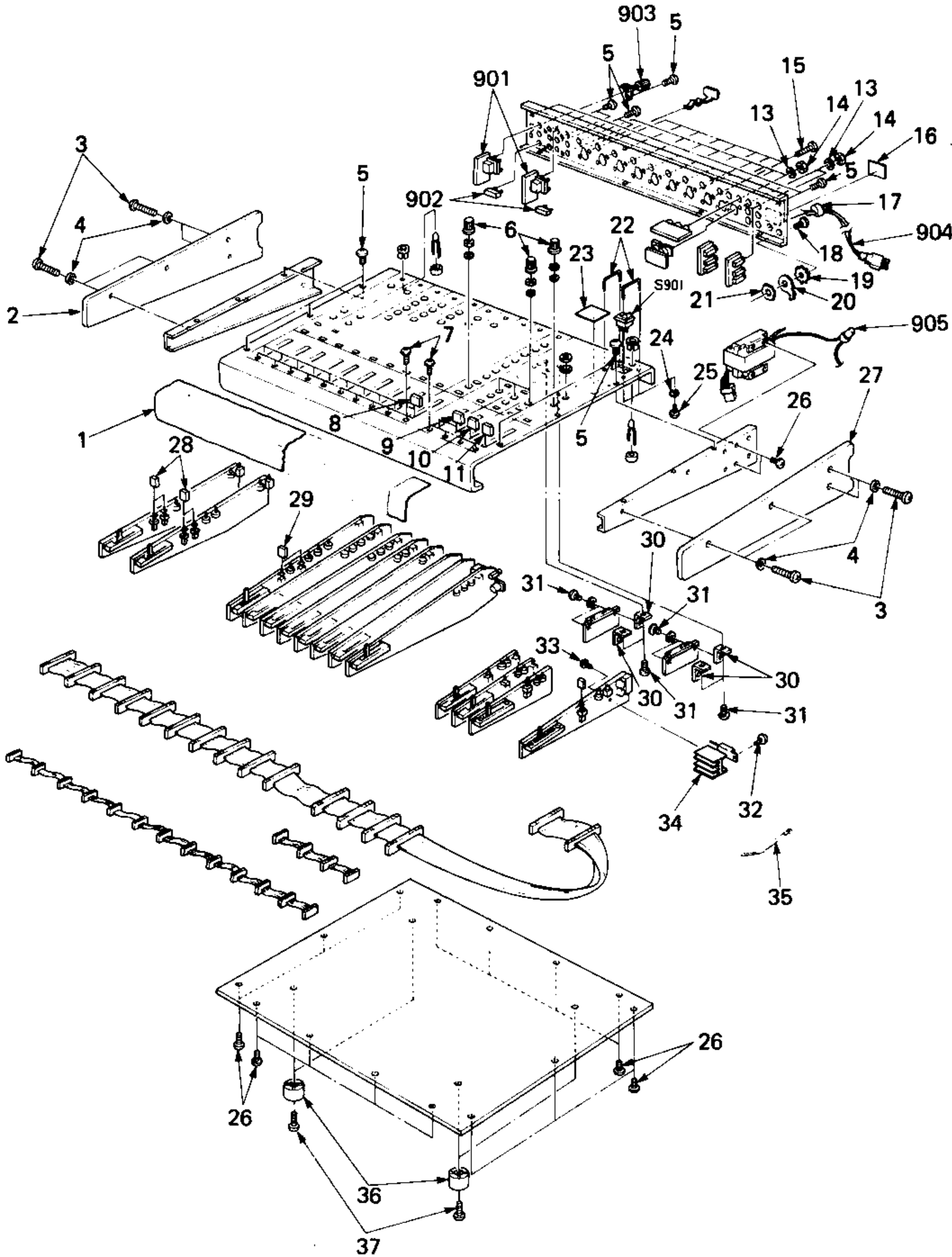
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• The construction parts of an assembled part are indicated with a collation number in the remark column.

• Color Indication of Appearance Parts
Example: (RED) KNOB, BALANCE (WHITE)

Cabinet's Color Parts' Color

The components identified by shading and mark  are critical for safety. Replace only with part number specified.



No.	Part No.	Description
1	2-335-155-01	REST, ARM
2	2-335-153-01	PANEL, SIDE (LEFT)
3	7-685-664-79	SCREW +B 4X20
4	7-688-004-02	WASHER (M4)
5	7-685-646-79	SCREW +BTP 3X8
6	2-335-457-01	KNOB (WHITE)
	2-335-457-11	KNOB (YELLOW)
	2-335-457-21	KNOB (GREEN)
	2-335-457-31	KNOB (BLUE)
	2-335-457-41	KNOB (RED)
7	2-335-716-01	SCREW +T 3X5
8	2-335-458-01	KNOB SLIDE (WHITE)
9	2-335-458-11	KNOB SLIDE (RED)
10	2-335-458-21	KNOB SLIDE (GREEN)
11	2-335-458-31	KNOB SLIDE (BLUE)
13	2-335-640-01	WASHER (M12)
14	2-335-641-01	NUT (M12)
15	7-682-549-09	SCREW +B 3X10
16 *	2-335-450-01	LABEL, MODEL NUMBER
17	3-703-244-00	BUSHING (2104), CORD
18	7-785-561-09	SCREW +B 4X8TP
19	7-623-423-07	WASHER, LOCK (M4)
20	7-623-510-01	LUG (4M)
21	7-684-024-04	NUT (4M)

No.	Part No.	Description
22 *	2-335-455-01	GUARD, SWITCH
23 *	3-703-707-41	STICKER, SONY SYMBOL
24	7-688-002-02	WASHER (M2.6)
25	7-621-775-10	SCREW +B 2.6X4
26	7-685-645-79	SCREW +BTP 3X6
27	2-335-154-01	PANEL, SIDE (RIGHT)
28	2-335-459-01	KNOB, PUSH (WHITE)
29	2-335-459-11	KNOB, PUSH (GRAY)
30 *	2-335-717-01	CHANNEL
31	7-682-545-09	SCREW +B 3X4
32	7-682-547-09	SCREW +B 3X6
33	7-682-647-09	SCREW PSW 3X6
34 *	4-863-132-00	HEAT SINK
35 *	3-701-748-00	CLAMP
36 *	2-335-456-01	FOOT
37	7-685-662-79	SCREW +B 4X14
901	1-566-854-11	JACK, PIN 4P
902	1-566-855-11	JACK, PIN 2P
903	1-535-680-11	TERMINAL GROUND
904	1-534-817-12	CORD, POWER
905	1-507-679-00	COVER, CONTACT
S901	1-554-011-11	SWITCH, POWER
T907	1-449-009-11	TRANSFORMER, POWER

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ F.

RESISTORS

• All resistors are in ohms.
• F : nonflammable

COILS

• MMH : mH, UH : μ H

SEMICONDUCTORS

In each case, U : μ , for example:UA...: μ A..., UPA...: μ PA..., UPC...: μ PC,UPD...: μ PD...

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

ELECTRICAL PARTS

RefNo	Part No.	Description
(INPUT A BOARD)		
	*1-621-421-11	PC BOARD, (INPUT A)
C101	1-123-356-00	ELECT 10 μ F 50V
C102	1-123-356-00	ELECT 10 μ F 50V
C103	1-123-356-00	ELECT 10 μ F 50V
C104	1-123-356-00	ELECT 10 μ F 50V
C105	1-123-356-00	ELECT 10 μ F 50V
C106	1-123-356-00	ELECT 10 μ F 50V
C107	1-106-353-00	MYLAR 0.0027 μ F 200V
C108	1-106-353-00	MYLAR 0.0027 μ F 200V
C109	1-123-357-00	ELECT 22 μ F 50V
C110	1-123-357-00	ELECT 22 μ F 50V
C111	1-130-483-00	MYLAR 0.01 μ F 50V
C112	1-130-483-00	MYLAR 0.01 μ F 50V
C113	1-123-356-00	ELECT 10 μ F 50V
C114	1-123-356-00	ELECT 10 μ F 50V
C115	1-123-380-00	ELECT 1 μ F 00V
C116	1-123-380-00	ELECT 1 μ F 00V
C117	1-102-963-00	CERAMIC 33PF 50V
C118	1-102-963-00	CERAMIC 33PF 50V
C119	1-123-330-00	ELECT 22 μ F 50V
C120	1-123-330-00	ELECT 22 μ F 50V
C121	1-123-356-00	ELECT 10 μ F 50V
C122	1-123-356-00	ELECT 10 μ F 50V
C123	1-102-959-00	CERAMIC 22PF 50V
C124	1-102-959-00	CERAMIC 22PF 50V
C125	1-123-356-00	ELECT 10 μ F 50V
C126	1-102-959-00	CERAMIC 22PF 50V
C127	1-102-959-00	CERAMIC 22PF 50V
C128	1-123-356-00	ELECT 10 μ F 50V
C129	1-130-495-00	MYLAR 0.1 μ F 50V
C130	1-123-356-00	ELECT 10 μ F 50V
C131	1-123-356-00	ELECT 10 μ F 50V
C132	1-161-051-61	CERAMIC 0.01 μ F 50V
C133	1-161-051-61	CERAMIC 0.01 μ F 50V
CN101	1-566-876-11	CONNECTOR L TYPE (12P)
CN102	1-566-875-11	CONNECTOR L TYPE (4P)
D101	8-719-815-55	DIODE 1S1555
D102	8-719-815-55	DIODE 1S1555
D103	8-719-815-55	DIODE 1S1555
D104	8-719-815-55	DIODE 1S1555
D105	8-719-815-55	DIODE 1S1555
D106	8-719-815-55	DIODE 1S1555
D107	8-719-815-55	DIODE 1S1555
D108	8-719-815-55	DIODE 1S1555
D109	8-719-815-55	DIODE 1S1555
D110	8-719-815-55	DIODE 1S1555
D111	8-719-100-68	DIODE RD13EB2

ELECTRICAL PARTS

RefNo	Part No.	Description
IC101	8-759-900-72	IC NE5532P
IC102	8-759-145-58	IC μ PC4558C
IC103	8-759-145-58	IC μ PC4558C
IC104	8-759-145-58	IC μ PC4558C
IC105	8-759-145-58	IC μ PC4558C
TR101	8-729-191-58	TRANSISTOR 2SC945
TR102	8-729-173-38	TRANSISTOR 2SA733
R101	1-249-465-11	CARBON 47K 1/4W
R102	1-249-465-11	CARBON 47K 1/4W
R103	1-247-713-11	CARBON 1K 1/4W
R104	1-247-713-11	CARBON 1K 1/4W
R105	1-249-465-11	CARBON 47K 1/4W
R106	1-249-465-11	CARBON 47K 1/4W
R107	1-247-713-11	CARBON 1K 1/4W
R108	1-247-713-11	CARBON 1K 1/4W
R109	1-249-465-11	CARBON 47K 1/4W
R110	1-249-465-11	CARBON 47K 1/4W
R111	1-249-465-11	CARBON 47K 1/4W
R112	1-249-465-11	CARBON 47K 1/4W
R113	1-247-706-11	CARBON 330 1/4W
R114	1-247-706-11	CARBON 330 1/4W
R115	1-247-706-11	CARBON 330 1/4W
R116	1-247-706-11	CARBON 330 1/4W
R117	1-249-463-11	CARBON 27K 1/4W
R118	1-249-463-11	CARBON 27K 1/4W
R119	1-246-533-00	CARBON 330K 1/4W
R120	1-246-533-00	CARBON 330K 1/4W
R121	1-247-700-11	CARBON 100 1/4W
R122	1-247-700-11	CARBON 100 1/4W
R123	1-249-465-11	CARBON 47K 1/4W
R124	1-249-465-11	CARBON 47K 1/4W
R125	1-247-713-11	CARBON 1K 1/4W
R126	1-247-713-11	CARBON 1K 1/4W
R127	1-249-465-11	CARBON 47K 1/4W
R128	1-249-465-11	CARBON 47K 1/4W
R129	1-247-715-11	CARBON 1.5K 1/4W
R130	1-247-715-11	CARBON 1.5K 1/4W
R131	1-247-721-11	CARBON 4.7K 1/4W
R132	1-247-721-11	CARBON 4.7K 1/4W
R133	1-249-462-11	CARBON 22K 1/4W
R134	1-249-462-11	CARBON 22K 1/4W
R135	1-249-465-11	CARBON 47K 1/4W
R136	1-246-465-11	CARBON 47K 1/4W
R137	1-246-465-11	CARBON 47K 1/4W
R138	1-246-465-11	CARBON 47K 1/4W
R139	1-249-462-11	CARBON 22K 1/4W
R140	1-249-462-11	CARBON 22K 1/4W

RefNo	Part No.	Description	RefNo	Part No.	Description
R141	1-249-465-11	CARBON 47K 1/4W	C223	1-123-356-00	ELECT 10 μ 50V
R142	1-249-465-11	CARBON 47K 1/4W	C224	1-102-959-00	CERAMIC 22P 50V
R143	1-249-462-11	CARBON 22K 1/4W	C225	1-123-357-00	ELECT 22 μ 50V
R144	1-249-462-11	CARBON 22K 1/4W	C226	1-130-495-00	MYLAR 0.1 μ 50V
R145	1-249-462-11	CARBON 22K 1/4W	C227	1-130-495-00	MYLAR 10 μ 50V
R146	1-249-465-11	CARBON 47K 1/4W	C228	1-130-495-00	MYLAR 10 μ 50V
R147	1-249-462-11	CARBON 22K 1/4W	C229	1-161-051-61	CERAMIC 0.01 μ 50V
R148	1-249-465-11	CARBON 47K 1/4W	CN201	1-566-876-11	CONNECTOR, L TYPE (12P)
R149	1-249-462-11	CARBON 22K 1/4W	CN202	1-566-875-11	CONNECTOR, L TYPE (4P)
R150	1-247-726-11	CARBON 33K 1/4W	D201	8-719-815-55	DIODE 1S1555
R151	1-249-465-11	CARBON 47K 1/4W	D202	8-719-815-55	DIODE 1S1555
R152	1-249-462-11	CARBON 22K 1/4W	D203	8-719-815-55	DIODE 1S1555
R153	1-247-725-11	CARBON 10K 1/4W	D204	8-719-815-55	DIODE 1S1555
R154	1-249-465-11	CARBON 47K 1/4W	D205	8-719-815-55	DIODE 1S1555
R155	1-247-715-11	CARBON 1.5K 1/4W	D206	8-719-815-55	DIODE 1S1555
R156	1-247-715-11	CARBON 1.5K 1/4W	D207	8-719-815-55	DIODE 1S1555
R157	1-247-688-11	CARBON 10 1/4W	D208	8-719-815-55	DIODE 1S1555
R158	1-247-704-11	CARBON 220 1/4W	D209	8-719-100-68	DIODE RD13EB2
R159	1-247-704-11	CARBON 220 1/4W	IC201	8-759-145-58	IC μ PC4558C
SW101	1-571-226-11	SWITCH, ROTARY (INPUT, SELECT)	IC202	8-759-145-58	IC μ PC4558C
SW102	1-571-224-11	SWITCH, PUSH (MONO)	JK201	1-507-863-11	JACK, STEREO
SW103	1-571-224-11	SWITCH, PUSH (POST)	JK202	1-566-853-11	RECEPTACLE (CANON TYPE)
SW104	1-571-223-11	SWITCH, PUSH (CUE)	TR201	8-729-207-01	TRANSISTOR 2SA970
VR101	1-224-605-11	RES, VAR 10K Ω A (TRIM)	TR202	8-729-207-01	TRANSISTOR 2SA970
VR102	1-224-207-11	RES, VAR 120K Ω A (AUX2)	TR203	8-729-173-38	TRANSISTOR 2SA733
VR103	1-224-207-11	RES, VAR 20K Ω A (AUX1)	TR204	8-729-173-38	TRANSISTOR 2SA733
VR104	1-237-839-11	RES, VAR SLIDE 5K Ω CX2 (FADER)	TR205	8-729-191-58	TRANSISTOR 2SC945
(IN PUT B BOARD)			TR206	8-729-173-38	TRANSISTOR 2SA733
*1-621-422-11	PC, BOARD		R201	1-249-465-11	CARBON 47K 1/4W
C201	1-123-357-00	ELECT 22 μ 50V	R202	1-249-465-11	CARBON 47K 1/4W
C202	1-123-357-00	ELECT 22 μ 50V	R203	1-247-713-11	CARBON 1 K 1/4W
C203	1-123-317-00	ELECT 22 μ 50V	R204	1-247-713-11	CARBON 1 K 1/4W
C204	1-123-317-00	ELECT 22 μ 50V	R205	1-247-725-11	CARBON 10K 1/4W
C205	1-106-172-00	MYLAR 0.001 μ 100V	R206	1-247-725-11	CARBON 10K 1/4W
C206	1-106-172-00	MYLAR 0.001 μ 100V	R207	1-246-455-11	CARBON 180 1/4W
C207	1-106-172-00	MYLAR 0.001 μ 100V	R208	1-247-725-11	CARBON 10K 1/4W
C208	1-123-308-00	ELECT 220 μ 10V	R209	1-249-462-11	CARBON 22K 1/4W
C209	1-123-356-00	ELECT 10 μ 50V	R210	1-249-462-11	CARBON 22K 1/4W
C210	1-123-356-00	ELECT 10 μ 50V	R211	1-247-700-11	CARBON 100 1/4W
C211	1-123-356-00	ELECT 10 μ 50V	R212	1-247-700-11	CARBON 100 1/4W
C212	1-102-959-00	CERAMIC 22P 50V	R213	1-247-725-11	CARBON 10K 1/4W
C213	1-102-959-00	CERAMIC 22P 50V	R214	1-247-725-11	CARBON 10K 1/4W
C214	1-102-959-00	CERAMIC 22P 50V	R215	1-247-725-11	CARBON 10K 1/4W
C215	1-130-483-00	MYLAR 0.01 μ 50V	R216	1-247-725-11	CARBON 10K 1/4W
C216	1-106-353-00	MYLAR 0.0047 μ 200V	R217	1-247-700-11	CARBON 100 1/4W
C217	1-102-978-00	CERAMIC 220P 50V	R218	1-247-725-11	CARBON 10K 1/4W
C218	1-106-184-00	MYLAR 0.0033 μ 100V	R219	1-247-179-00	CARBON 100K 1/4W
C219	1-108-587-00	MYLAR 0.022 μ 50V	R220	1-247-179-00	CARBON 100K 1/4W
C220	1-108-587-00	MYLAR 0.022 μ 50V	R221	1-247-725-11	CARBON 10K 1/4W
C221	1-123-357-00	ELECT 22 μ 50V	R222	1-247-725-11	CARBON 10K 1/4W
C222	1-123-356-00	ELECT 10 μ 50V	R223	1-247-724-11	CARBON 8.2K 1/4W

RefNo	Part No.	Description
R224	1-247-724-11	CARBON 8.2K 1/4W
R225	1-247-720-11	CARBON 3.9K 1/4W
R226	1-247-720-11	CARBON 3.9K 1/4W
R227	1-247-725-11	CARBON 10K 1/4W
R228	1-247-725-11	CARBON 10K 1/4W
R229	1-247-725-11	CARBON 10K 1/4W
R230	1-249-465-11	CARBON 47K 1/4W
R231	1-247-715-11	CARBON 1.5K 1/4W
R232	1-247-719-11	CARBON 3.3K 1/4W
R233	1-249-462-11	CARBON 22K 1/4W
R234	1-249-462-11	CARBON 22K 1/4W
R235	1-249-462-11	CARBON 22K 1/4W
R236	1-249-462-11	CARBON 22K 1/4W
R237	1-249-462-11	CARBON 22K 1/4W
R238	1-249-462-11	CARBON 22K 1/4W
R239	1-249-462-11	CARBON 22K 1/4W
R240	1-249-462-11	CARBON 22K 1/4W
R241	1-249-465-11	CARBON 47K 1/4W
R242	1-247-715-11	CARBON 1.5K 1/4W
R243	1-247-715-11	CARBON 1.5K 1/4W
R244	1-247-725-11	CARBON 10K 1/4W
R245	1-247-725-11	CARBON 10K 1/4W
R246	1-247-688-11	CARBON 10 1/4W
SW201	1-552-711-11	SWITCH, ROTARY (INPUT, SELECT)
SW202	1-571-224-11	SWITCH, PUSH (POST)
SW203	1-571-225-11	SWITCH, PUSH (PFL)
VR201	1-237-840-11	RES, VAR 5KC (TRIM)
VR202	1-224-892-11	RES, VAR 100KB (HIGH)
VR203	1-237-841-11	RES, VAR 10KB (MID)
VR204	1-224-892-11	RES, VAR 100KB (LOW)
VR205	1-224-207-11	RES, VAR 20KA (AUX1)
VR206	1-224-207-11	RES, VAR 20KA (AUX2)
VR207	1-224-524-11	RES, VAR 50KB (PAN)
VR208	1-237-844-11	RES, VAR SLIDE 5KC (FADER)
(MASTER L, R基板)		
*1-621-423-11	PC BOARD	
C01	1-102-959-00	CERAMIC 22P 50V
C02	1-123-356-00	ELECT 10 μ 50V
C03	1-123-356-00	ELECT 10 μ 50V
C04	1-123-357-00	ELECT 22 μ 50V
C05	1-123-357-00	ELECT 22 μ 50V
C06	1-123-356-00	ELECT 10 μ 50V
C07	1-102-959-00	CERAMIC 22P 50V
C08	1-123-356-00	ELECT 10 μ 50V
C11	1-123-353-51	ELECT 2.2 μ (L) 50V
C12	1-123-353-51	ELECT 2.2 μ (L) 50V
C13	1-123-353-51	ELECT 2.2 μ (L) 50V

RefNo	Part No.	Description
C14	1-123-356-00	ELECT 10 μ 50V
C15	1-123-308-00	ELECT 220 μ 10V
C16	1-123-308-00	ELECT 220 μ 10V
CN301	1-566-876-11	CONNECTOR, L TYPE (12P)
CN302	1-566-875-11	CONNECTOR, L TYPE (4P)
CN303	1-566-875-11	CONNECTOR, L TYPE (4P)
D01	8-719-815-55	DIODE 1S1555(R)
D02	8-719-815-55	DIODE 1S1555(L)
D03	8-719-815-55	DIODE 1S1555
D04	8-719-815-55	DIODE 1S1555(R)
D05	8-719-815-55	DIODE 1S1555(L)
D07	8-719-815-55	DIODE 1S1555
D08	8-719-815-55	DIODE 1S1555
D09	8-719-815-55	DIODE 1S1555
IC01	8-759-145-58	IC μ PC4558C
IC02	8-759-145-58	IC μ PC4558C
IC03	8-759-145-58	IC μ PC4558C
TR01	8-729-201-16	TRANSISTOR 2SK117
TR02	8-729-201-16	TRANSISTOR 2SK117
R01	1-246-521-25	CARBON 100K 1/4W(L)
R02	1-246-521-25	CARBON 100K 1/4W(R)
R04	1-249-467-11	CARBON 68K 1/4W
R05	1-249-462-11	CARBON 22K 1/4W
R06	1-249-469-11	CARBON 47K 1/4W
R07	1-247-700-11	CARBON 100 1/4W
R08	1-249-465-11	CARBON 47K 1/4W
R09	1-247-700-11	CARBON 100 1/4W
R10	1-247-700-11	CARBON 100 1/4W
R11	1-249-461-11	CARBON 18K 1/4W
R12	1-249-462-11	CARBON 22K 1/4W
R13	1-247-725-11	CARBON 10K 1/4W
R14	1-249-462-11	CARBON 22K 1/4W
R15	1-247-725-11	CARBON 10K 1/4W
R16	1-247-725-11	CARBON 10K 1/4W
R17	1-249-465-11	CARBON 47K 1/4W
R18	1-247-725-11	CARBON 10K 1/4W
R19	1-247-725-11	CARBON 10K 1/4W
R20	1-249-462-11	CARBON 22K 1/4W
R21	1-249-469-11	CARBON 47K 1/4W
R22	1-249-462-11	CARBON 22K 1/4W
R23	1-249-462-11	CARBON 22K 1/4W
R24	1-249-462-11	CARBON 22K 1/4W
R25	1-249-462-11	CARBON 22K 1/4W
R26	1-215-176-11	MEATL, OXIDE 10K 1/4W
R27	1-246-537-00	CARBON 470K 1/4W

RefNo	Part No.	Description
R29	1-215-176-11	METAL, OXIDE 10K 1/4W
R30	1-215-176-11	METAL, OXIDE 10K 1/4W
R31	1-215-132-11	METAL, OXIDE 150 1/4W
R32	1-215-176-11	METAL, OXIDE 10K 1/4W
R33	1-215-176-11	METAL, OXIDE 10K 1/4W
R35	1-215-176-11	METAL, OXIDE 10K 1/4W
R36	1-215-132-11	METAL, OXIDE 150 1/4W
R37	1-215-176-11	METAL, OXIDE 10K 1/4W
R38	1-215-176-11	METAL, OXIDE 10K 1/4W
R39	1-247-179-00	CARBON 100K 1/4W(L)
R40	1-247-179-00	CARBON 100K 1/4W(L)
R41	1-247-688-11	CARBON 10 1/4W
SW01	1-571-224-11	SWITCH, PUSH (PHONE SELECT)
SW02	1-571-244-11	SWITCH, PUSH (METER SELECT)
VR01	1-237-843-11	RES, VAR SLIDE 100K Ω C (MASTERL)
VR02	1-226-312-11	RES, VAR 50K Ω A (LEVEL)
VR03	1-224-524-00	RES, VAR 50K Ω B (PAN)
VR04	1-224-930-21	RES, ADJ 10KB (DC BALANCE)
[AUX 1 BOARD]		
	*1-621-423-11	PC, BOARD
C01	1-102-959-00	CERAMIC 22P 50V
C02	1-123-356-00	ELECT 10 μ 50V
C03	1-123-356-00	ELECT 10 μ 50V
C05	1-123-357-00	ELECT 22 μ 50V
C06	1-123-356-00	ELECT 10 μ 50V
C07	1-102-959-00	CERAMIC 22P 50V
C08	1-123-356-00	ELECT 10 μ 50V
CN501	1-566-876-11	CONNECTOR, L TYPE (12P)
CN502	1-566-875-11	CONNECTOR, L TYPE (4P)
CN503	1-566-875-11	CONNECTOR, L TYPE (4P)
D01	8-719-815-55	DIODE 1S1555
D02	8-719-815-55	DIODE 1S1555
D05	8-719-815-55	DIODE 1S1555
D06	8-719-815-55	DIODE 1S1555
D07	8-719-815-55	DIODE 1S1555
D08	8-719-815-55	DIODE 1S1555
IC01	8-759-145-58	IC μ PC4558C
IC02	8-759-145-58	IC μ PC4558C
TR01	8-729-201-16	TRANSISTOR 2SK117
TR02	8-729-201-16	TRANSISTOR 2SK117

RefNo	Part No.	Description
R03	1-247-695-11	CARBON 39K 1/4W
R04	1-249-467-11	CARBON 68K 1/4W
R05	1-249-466-11	CARBON 56K 1/4W
R06	1-249-465-11	CARBON 47K 1/4W
R07	1-247-700-11	CARBON 100 1/4W
R09	1-247-700-11	CARBON 100 1/4W
R12	1-249-462-11	CARBON 22K 1/4W
R13	1-247-725-11	CARBON 10K 1/4W
R14	1-249-462-11	CARBON 22K 1/4W
R15	1-247-725-11	CARBON 10K 1/4W
R16	1-247-725-11	CARBON 10K 1/4W
R17	1-249-469-11	CARBON 47K 1/4W
R18	1-246-497-25	CARBON 10K 1/4W
R19	1-247-725-11	CARBON 10K 1/4W
R20	1-249-462-11	CARBON 22K 1/4W
R21	1-249-465-11	CARBON 47K 1/4W
R22	1-249-462-11	CARBON 22K 1/4W
R23	1-249-462-11	CARBON 22K 1/4W
R24	1-249-462-11	CARBON 22K 1/4W
R25	1-249-462-11	CARBON 22K 1/4W
R41	1-247-688-11	CARBON 10 1/4W
SW01	1-571-224-11	SWITCH, PUSH (AUX1 OUT)
VR01	1-237-843-11	RES, VAR 100K Ω C (AUX1)
VR02	1-226-312-11	RES, VAR 50K Ω A (LEVEL)
VR03	1-237-524-11	RES, VAR 50K Ω B (PAN)
[AUX 2 BOARD]		
	*1-621-424-11	PC, BOARD
C601	1-123-356-00	ELECT 10 μ 50V
C602	1-102-959-00	CERAMIC 22P 50V
C603	1-123-317-00	ELECT 22 μ 50V
C604	1-123-356-00	ELECT 10 μ 50V
C605	1-102-959-00	CERAMIC 22P 50V
C606	1-102-959-00	CERAMIC 22P 50V
C607	1-123-356-00	ELECT 10 μ 50V
C608	1-123-356-00	ELECT 10 μ 50V
C609	1-123-356-00	ELECT 10 μ 50V
C610	1-123-356-00	ELECT 10 μ 50V
C611	1-123-317-00	ELECT 22 μ 50V
C612	1-123-317-00	ELECT 22 μ 50V
C613	1-123-350-00	ELECT 2200 μ 35V
C614	1-123-350-00	ELECT 2200 μ 35V
C615	1-123-336-00	ELECT 470 μ 25V
C616	1-123-336-00	ELECT 470 μ 25V
C617	1-123-306-00	ELECT 47 μ 10V
CN601	1-566-876-11	CONNECTOR, L TYPE (12P)
CN602	1-566-875-11	CONNECTOR, L TYPE (4P)
CN603	1-566-875-11	CONNECTOR, L TYPE (4P)
CN604	1-506-549-00	CONNECTOR, V TYPE (3P)

RefNo	Part No.	Description
D601	8-719-815-55	DIODE 1S1555
D602	8-719-815-55	DIODE 1S1555
D603	8-719-815-55	DIODE 1S1555
D604	8-719-815-55	DIODE 1S1555
D605	8-719-511-40	DIODE 1SVB40
D606	8-719-815-55	DIODE 1S1555
D607	8-719-815-55	DIODE 1S1555
D608	8-719-100-38	DIODE RD6.2EB2
D609	8-719-815-55	DIODE 1S1555
D610	8-719-815-55	DIODE 1S1555
IC601	8-759-145-58	IC μ PC4558C
IC602	8-759-145-58	IC μ PC4558C
IC603	8-759-145-58	IC μ PC4558C
IC604	8-759-170-15	IC μ PC78M15H
IC605	8-759-700-25	IC NJM79M15A
JK601	1-507-552-00	JACK, LAGE TYPE (PHONES)
TR601	8-729-843-81	TRANSISTOR 2SD438D
TR602	8-729-843-81	TRANSISTOR 2SD438D
TR603	8-729-856-01	TRANSISTOR 2SB560D
TR604	8-729-856-01	TRANSISTOR 2SB560D
TR605	8-729-201-16	TRANSISTOR 2SK117
TR606	8-729-201-16	TRANSISTOR 2SK117
TR607	8-729-173-38	TRANSISTOR 2SA733
R601	1-247-695-11	CARBON 39K 1/4W
R602	1-249-467-11	CARBON 68K 1/4W
R603	1-249-466-11	CARBON 56K 1/4W
R604	1-249-465-11	CARBON 47K 1/4W
R605	1-247-700-11	CARBON 100 1/4W
R606	1-249-462-11	CARBON 22K 1/4W
R607	1-247-725-11	CARBON 10K 1/4W
R608	1-249-462-11	CARBON 22K 1/4W
R609	1-247-725-11	CARBON 10K 1/4W
R610	1-247-725-11	CARBON 10K 1/4W
R611	1-247-725-11	CARBON 10K 1/4W
R612	1-249-462-11	CARBON 22K 1/4W
R613	1-249-462-11	CARBON 22K 1/4W
R614	1-249-463-11	CARBON 47K 1/4W
R615	1-249-463-11	CARBON 47K 1/4W
R616	1-247-713-11	CARBON 1K 1/4W
R617	1-247-713-11	CARBON 1K 1/4W
R618	1-247-713-11	CARBON 1K 1/4W
R619	1-247-713-11	CARBON 1K 1/4W
R620	1-249-460-11	CARBON 15K 1/4W
R621	1-249-469-11	CARBON 15K 1/4W
R622	1-249-461-11	CARBON 18K 1/4W
R623	1-249-461-11	CARBON 18K 1/4W
R624	1-247-712-11	CARBON 820 1/4W
R625	1-247-712-11	CARBON 820 1/4W
R626	1-247-712-11	CARBON 820 1/4W
R627	1-247-712-11	CARBON 820 1/4W
R628	1-249-461-11	CARBON 18K 1/4W
R629	1-249-461-11	CARBON 18K 1/4W
R630	1-247-093-00	CARBON 27 1/4W

RefNo	Part No.	Description
R631	1-247-093-00	CARBON 27 1/4W
R632	1-247-093-00	CARBON 27 1/4W
R633	1-247-093-00	CARBON 27 1/4W
R634	1-215-229-11	METAL, OXIDE 100 1W
R635	1-215-229-11	METAL, OXIDE 100 1W
R636	1-249-463-11	CARBON 47K 1/4W
R637	1-247-713-11	CARBON 1K 1/4W
R638	1-247-713-11	CARBON 1K 1/4W
R641	1-249-463-11	CARBON 47K 1/4W
R642	1-247-700-11	CARBON 330 1/4W
R643	1-247-688-11	CARBON 10 1/4W
RY601	1-515-519-00	RELAY
RY602	1-515-519-00	RELAY
SW601	1-571-224-11	SWITCH, PUSH (AUX2)
VR601	1-237-843-11	RES, VAR SLIDE 100K Ω C (AUX2OUT)
VR602	1-237-842-11	RES, VAR 100K Ω AX2 (PHONE LEVEL)
(LED, L, R BOARD)		
*1-621-425-11 PC, BOARD		
C01	1-123-356-00	ELECT 10 μ 50V
C02	1-102-976-00	CERAMIC 180P 50V
C03	1-123-379-00	ELECT 0.47 μ 50V
C04	1-123-356-00	ELECT 10 μ 50V
C05	1-123-356-00	ELECT 10 μ 50V
CN701	1-566-876-11	CONNECTOR, L TYPE (12P)
D01	8-719-100-68	DIODE RD13EB ₂
D02	8-719-815-55	DIODE 1S1555
D03	8-719-815-55	DIODE 1S1555
D04	8-719-815-55	DIODE 1S1555
D05	8-719-100-27	DIODE RD4.7EB ₂
D06	1-808-049-11	LED GL3EG7 GRN
D07	1-808-049-11	LED GL3EG7 GRN
D08	1-808-049-11	LED GL3EG7 GRN
D09	1-808-049-11	LED GL3EG7 GRN
D10	1-808-049-11	LED GL3EG7 GRN
D11	1-808-049-11	LED GL3EG7 GRN
D12	1-808-049-11	LED GL3EG7 GRN
D13	1-808-049-11	LED GL3EG7 GRN
D14	1-808-049-11	LED GL3EG7 GRN
D15	1-808-050-11	LED GL3HD7 RED
D16	1-808-050-11	LED GL3HD7 RED
D17	1-808-050-11	LED GL3HD7 RED
D18	1-808-050-11	LED GL3HD7 RED
D19	1-808-050-11	LED GL3HD7 RED
IC01	8-759-145-58	IC μ PC4558C
IC02	1-808-051-11	IC IR2410
IC03	1-808-051-11	IC IR2410

RefNo	Part No.	Description
TR01	8-729-173-38	TRANSISTOR 2SA733
TR02	8-729-173-38	TRANSISTOR 2SA733
TR03	8-729-173-38	TRANSISTOR 2SA733
R01	1-247-725-11	CARBON 10K 1/4W
R02	1-246-523-00	CARBON 120K 1/4W
R03	1-246-523-00	CARBON 120K 1/4W
R04	1-247-706-11	CARBON 330 1/4W
R05	1-247-697-11	CARBON 56 1/4W
R06	1-247-698-11	CARBON 68 1/4W
R07	1-247-697-11	CARBON 56 1/4W
R08	1-247-697-11	CARBON 56 1/4W
R09	1-247-695-11	CARBON 39 1/4W
R10	1-247-695-11	CARBON 39 1/4W
R11	1-247-698-11	CARBON 68 1/4W
R12	1-247-697-11	CARBON 56 1/4W
R13	1-247-695-11	CARBON 39 1/4W
R14	1-247-695-11	CARBON 39 1/4W
R15	1-247-698-11	CARBON 68 1/4W
R16	1-247-698-00	CARBON 68 1/4W
R17	1-247-697-11	CARBON 56 1/4W
R18	1-247-118-00	CARBON 300 1/4W
R19	1-247-710-11	CARBON 560 1/4W
R20	1-247-711-11	CARBON 560 1/4W
R21	1-247-719-11	CARBON 3.3K 1/4W
R22	1-247-139-00	CARBON 2.2K 1/4W

(PHONO IN BOARD)

JK101	1-566-854-11	JACK, PIN (4P)
	1-566-855-11	JACK, PIN (2P)
	*1-566-874-11	CONNECTOR (4P)

(INPUT SUB BOARD)

*1-621-426-11	PC, BOARD
1-563-081-11	JACK, LARGE TYPE
1-506-944-11	CONNECTOR (2P)

(OUT PUT (C) BOARD)

*1-621-427-11	PC, BOARD
*1-506-852-11	RECEPTACL (CANON TYPE)
*1-506-945-11	CONNECTOR (3P)

(OUT PUT (P) BOARD)

*1-621-426-11	PC, BOARD
1-507-863-31	JACK, LARGE TYPE (MASTER, AUXOUT)
1-507-825-00	JACK, LARGE TYPE (BUS IN)
*1-506-944-11	CONNECTOR (2P)

RefNo	Part No.	Description
	(ANOTHER BOARD)	
S901	△1-554-011-11	SWITCH, POWER
T901	△1-449-009-11	TRANSFORMER, POWER
D901	1-808-048-11	LED PG4133SY (POWER)
D912	1-808-047-11	LED PR4133S PEAK
D921	1-808-047-11	LED PR4133S PEAK
CR901	△1-102-125-00	CAP, CERAMIC
	1-507-679-00	SHORT, TERMINAL

ACCESSORY & PACKING MATARIAL

Part No.	Description
2-335-152-11	MANUAL, INSTRUCTION

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.