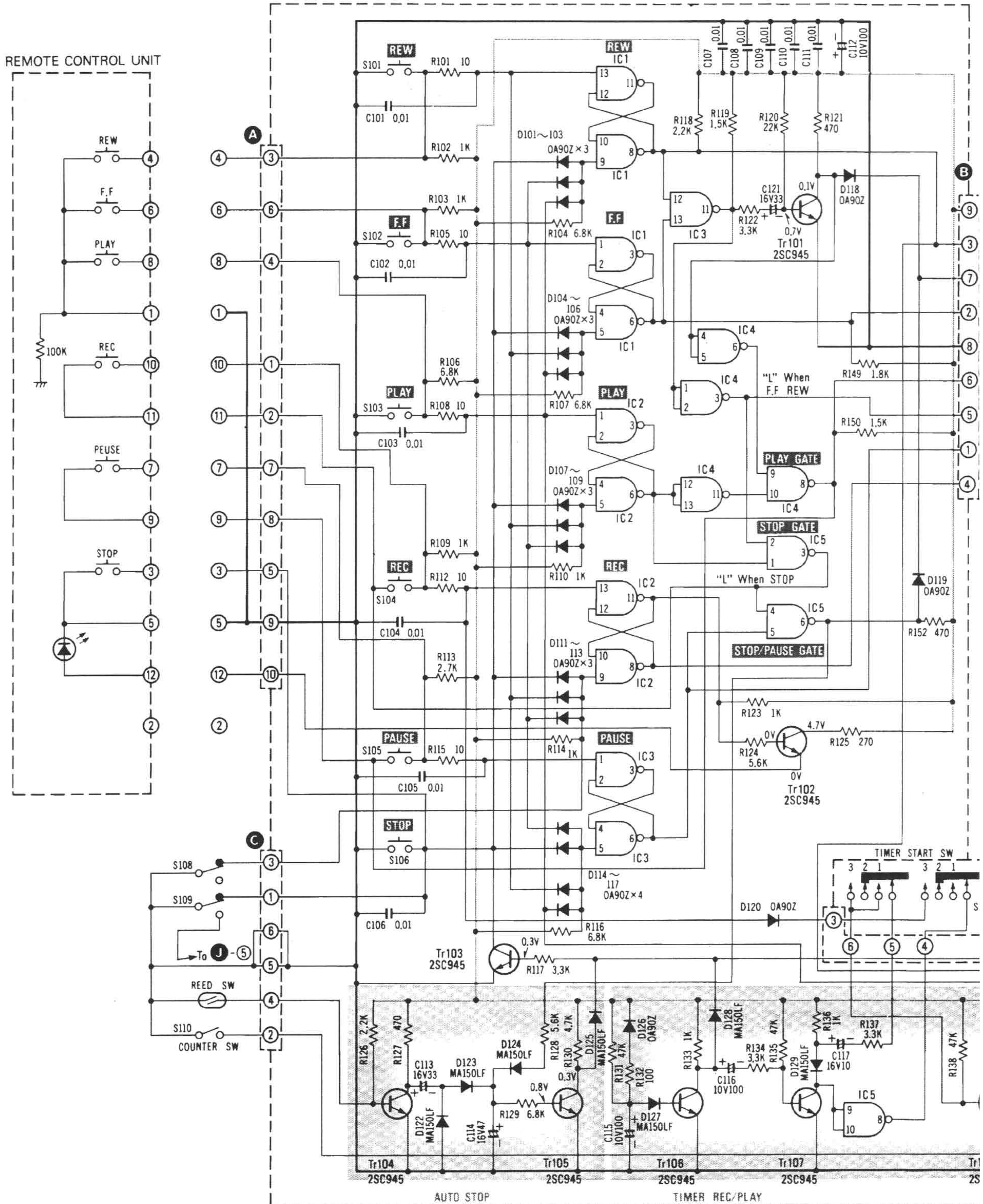
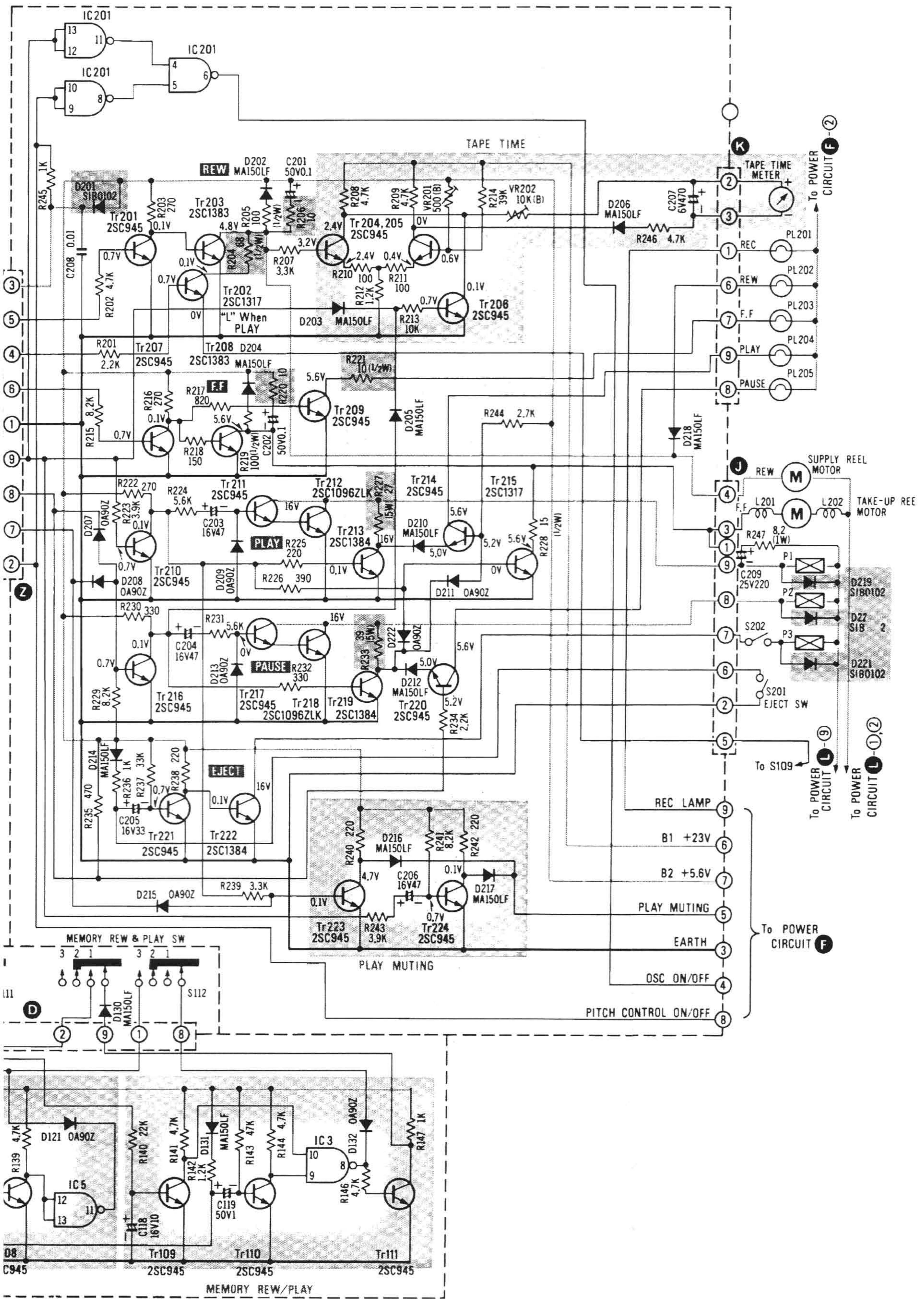


TAPE TRANSPORT UNIT

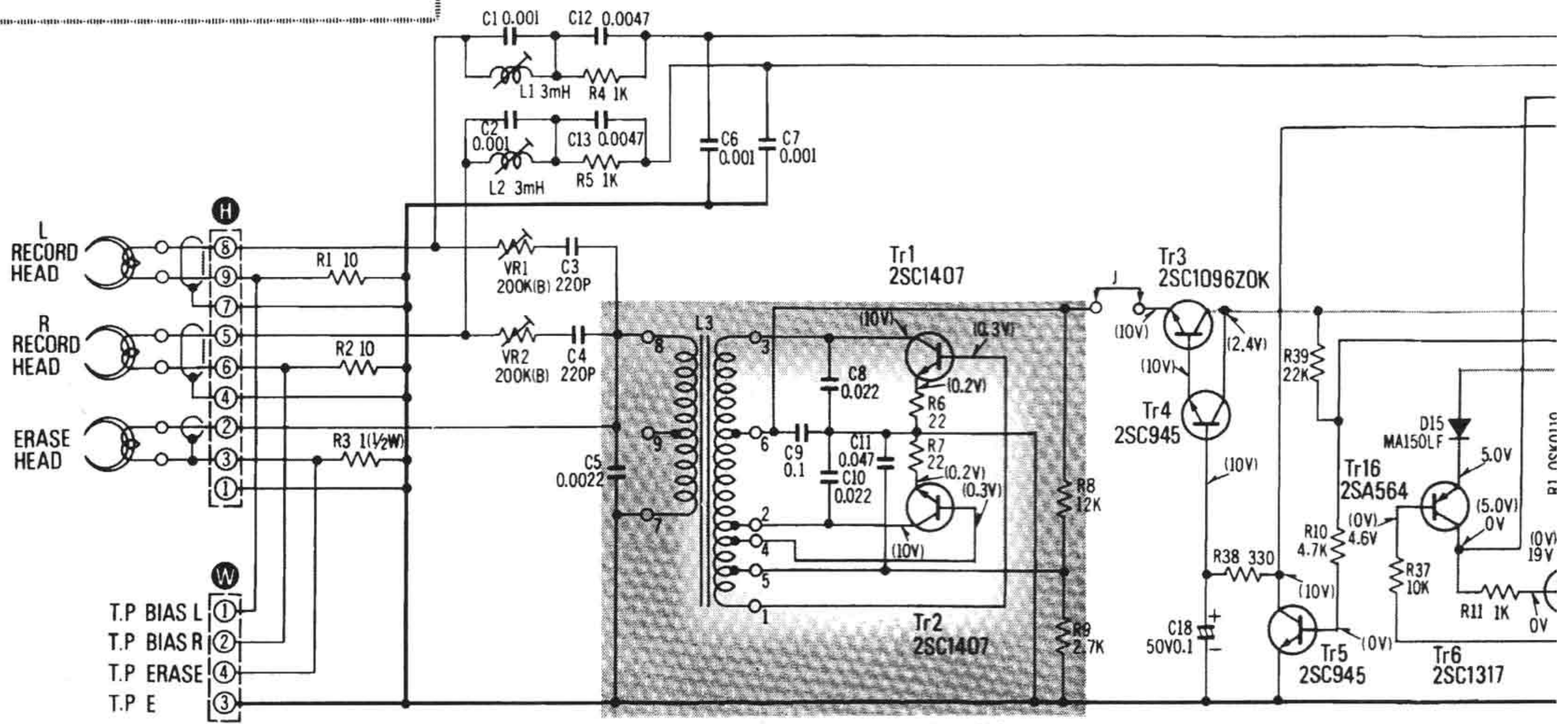
SCHEMATIC DIAGRAM MODEL RS-9900US

CONTROL CIRCUITRY

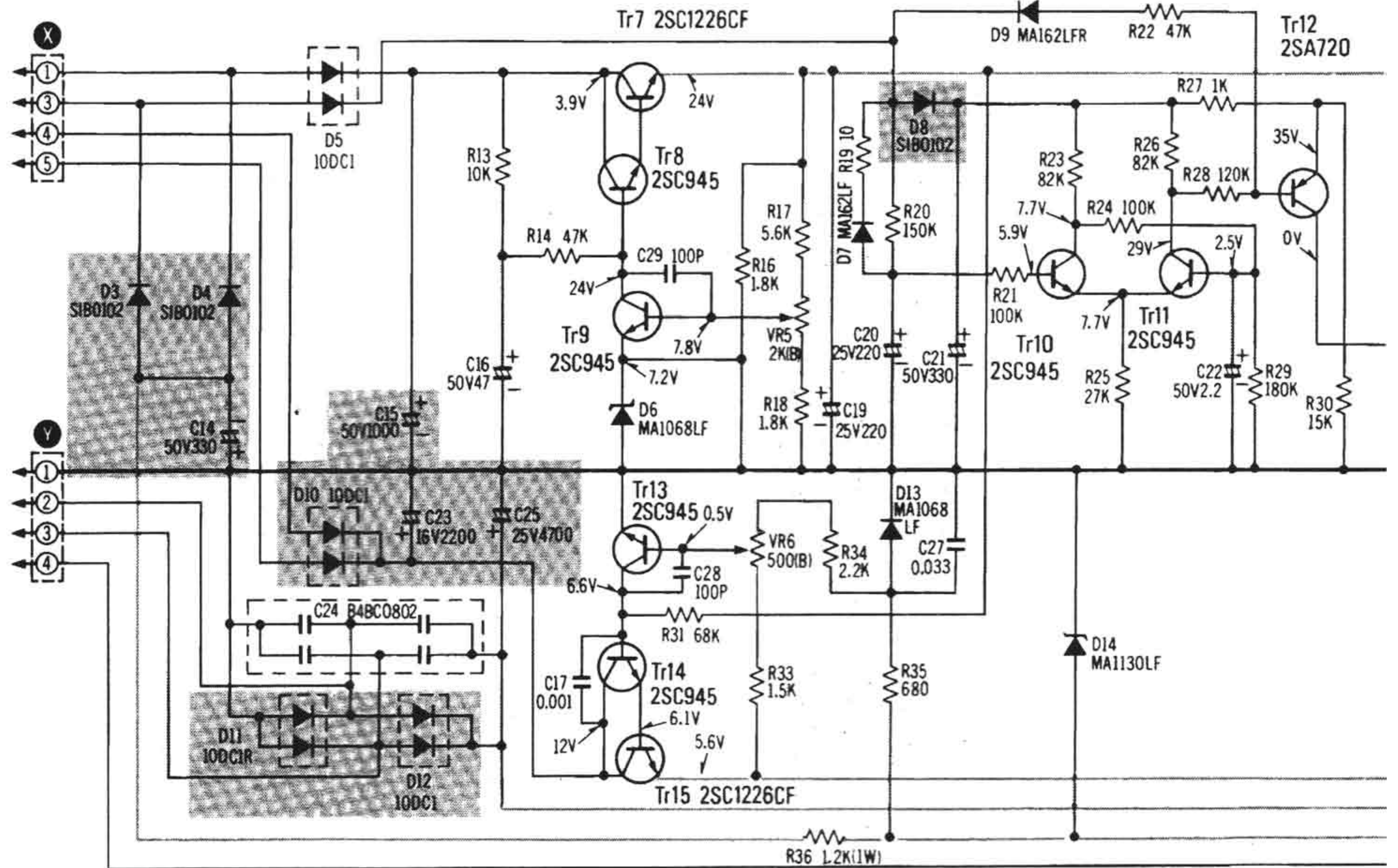




POWER CIRCUITRY



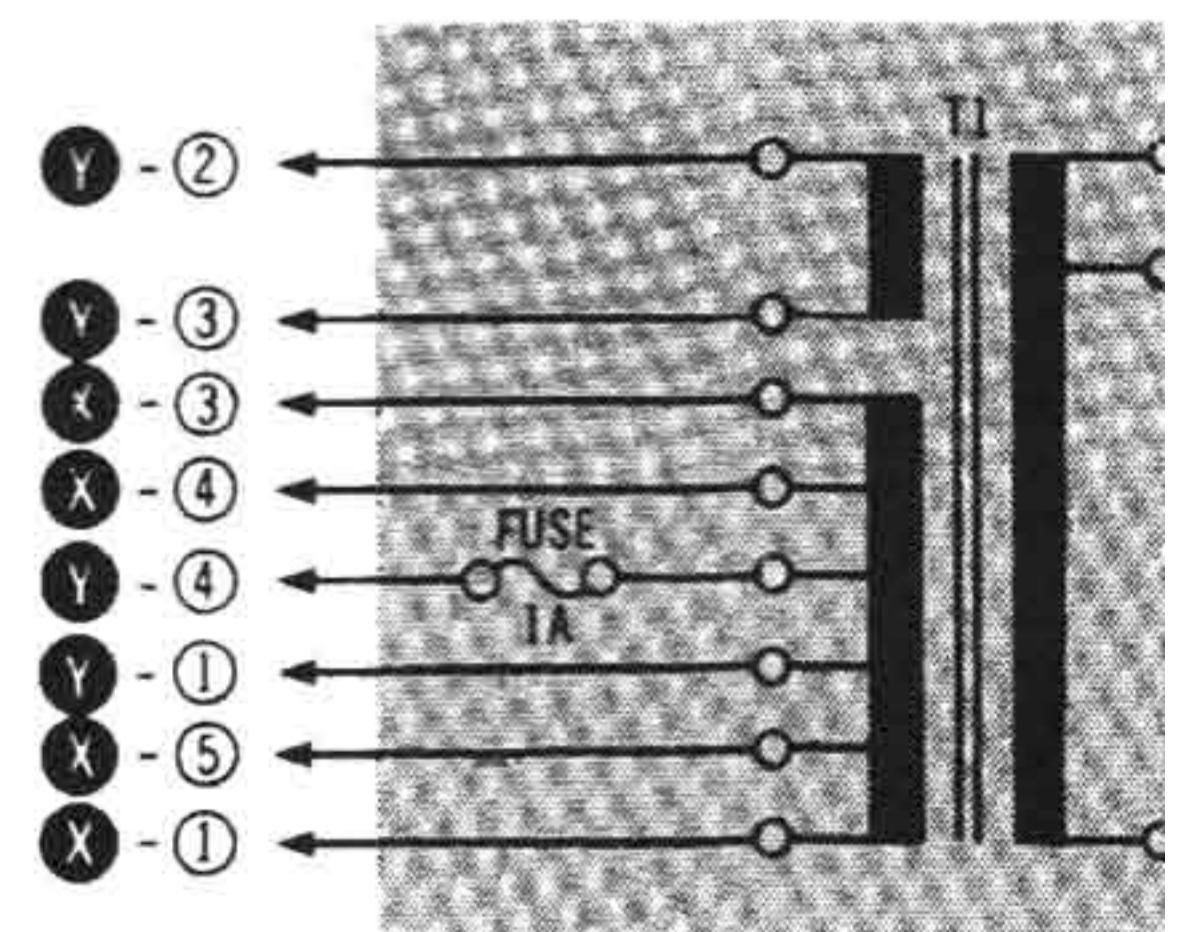
RECORDING BIAS OSCILLATOR

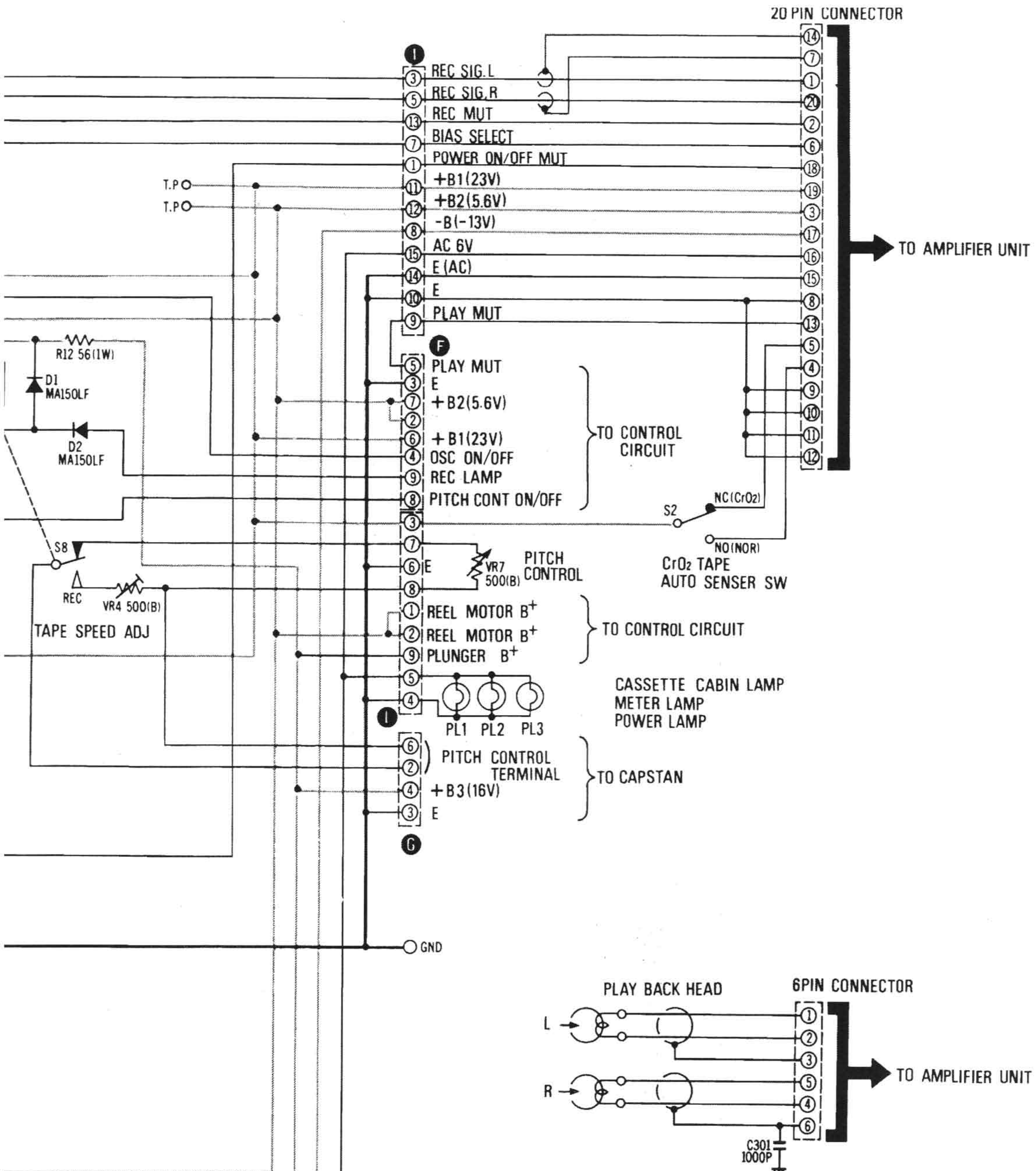


NOTE:

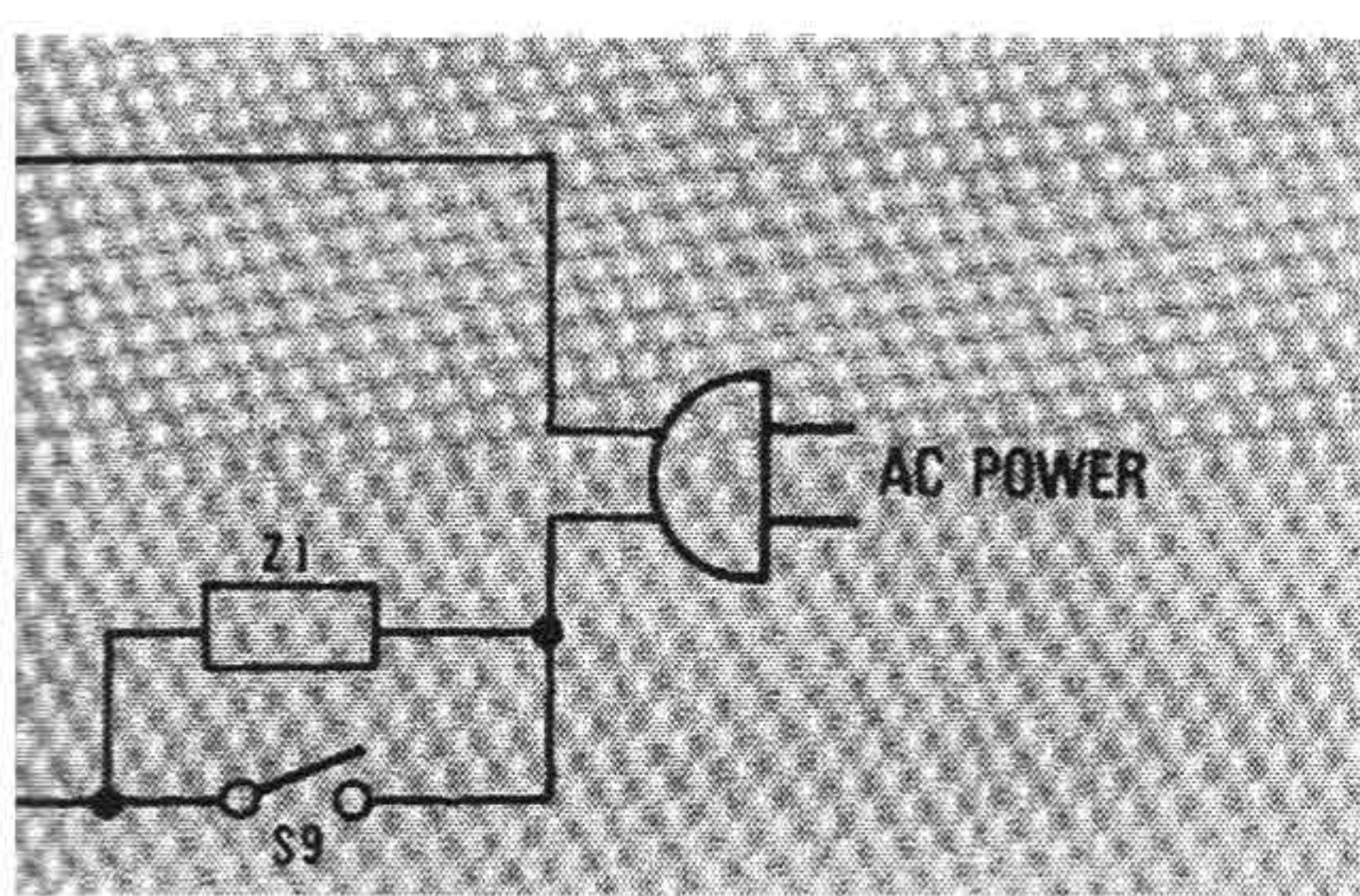
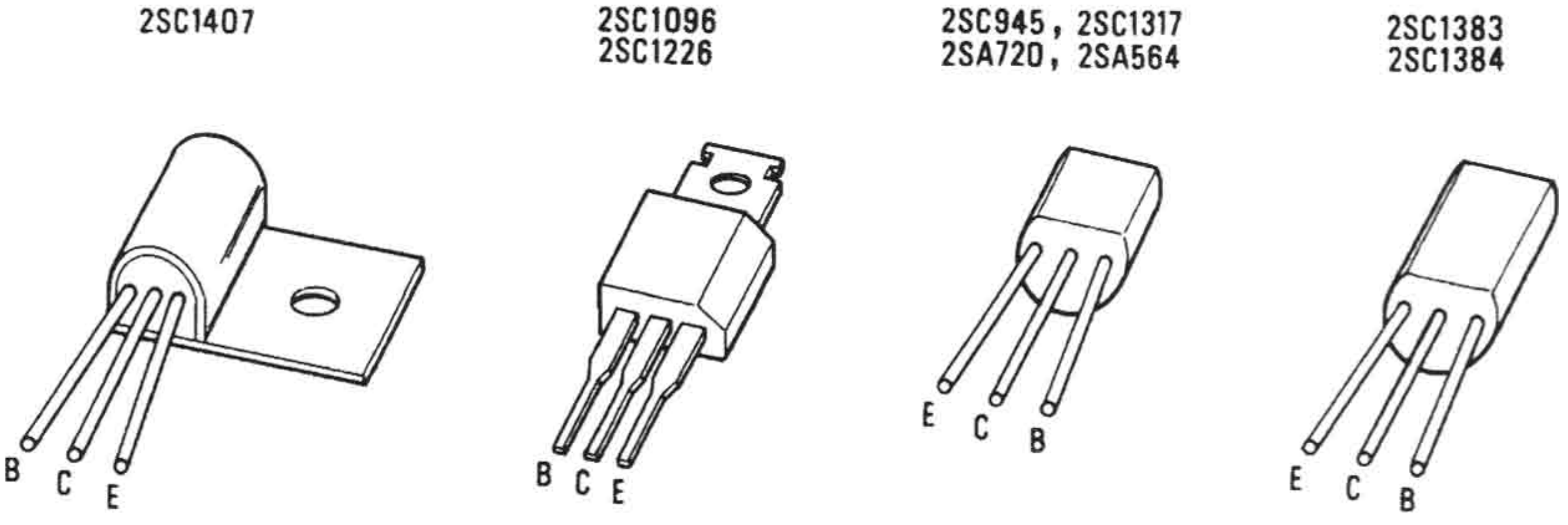
1. S8Relay switch.
2. S9Power ON/OFF switch.
3. S101.....Rewind switch.
4. S102.....FF switch.
5. S103.....Playback switch.
6. S104.....Record switch.
7. S105.....Pause switch.
8. S106.....Stop switch.
9. S107.....CrO₂ tape detecting switch.
10. S108.....Erase safety switch.
11. S109.....Cassette tape detecting switch.
12. S110.....Tape counter switch.
13. S111.....TIMER switch (shown in "OFF" position).
C : Center, 1 : PLAY, 2 : OFF, 3 : REC.
14. S112.....MEMORY switch (shown in "OFF" position).
C : Center, 1 : REW, 2 : OFF, 3 : PLAY.
15. S201.....Eject switch.
16. S202.....Eject prevention switch.
17. VR1, VR2.....Bias current adjustment VR.
18. VR4Tape speed adjustment VR (at record mode).
19. VR5DC voltage adjustment VR (on +B1 line).
20. VR6DC voltage adjustment VR (on +B2 line).
21. VR7Pitch control.
22. VR201, VR202Tape remain meter adjustment VR.
23. PL1Cassette cabin lamp.
24. PL2Power lamp.
25. PL3Meter lamp.
26. PL201Record lamp.
27. PL202Rewind lamp.
28. PL203Fast forward lamp.

29. PL204Playback lamp.
30. PL205Pause lamp.
31. Resistor values are in ohms (Ω), 1/4 watt unless specified
K=1,000Ω.
32. Capacitor values are in microfarads (μF) unless specified
P=Pico-farads.
33. All voltage values shown in circuitry are under no signal
at minimum position.
For measurement, use VTVM.
34. **Import safety notice.**
The shaded are on this schematic diagram incorporates safety
for safety.
When servicing it is essential that only manufacturer's sp
for the critical components in the shaded areas of the sch
35. A-Z indicates the connectors.





TERMINATIONS (BOTTOM VIEW)



wise.

wise.

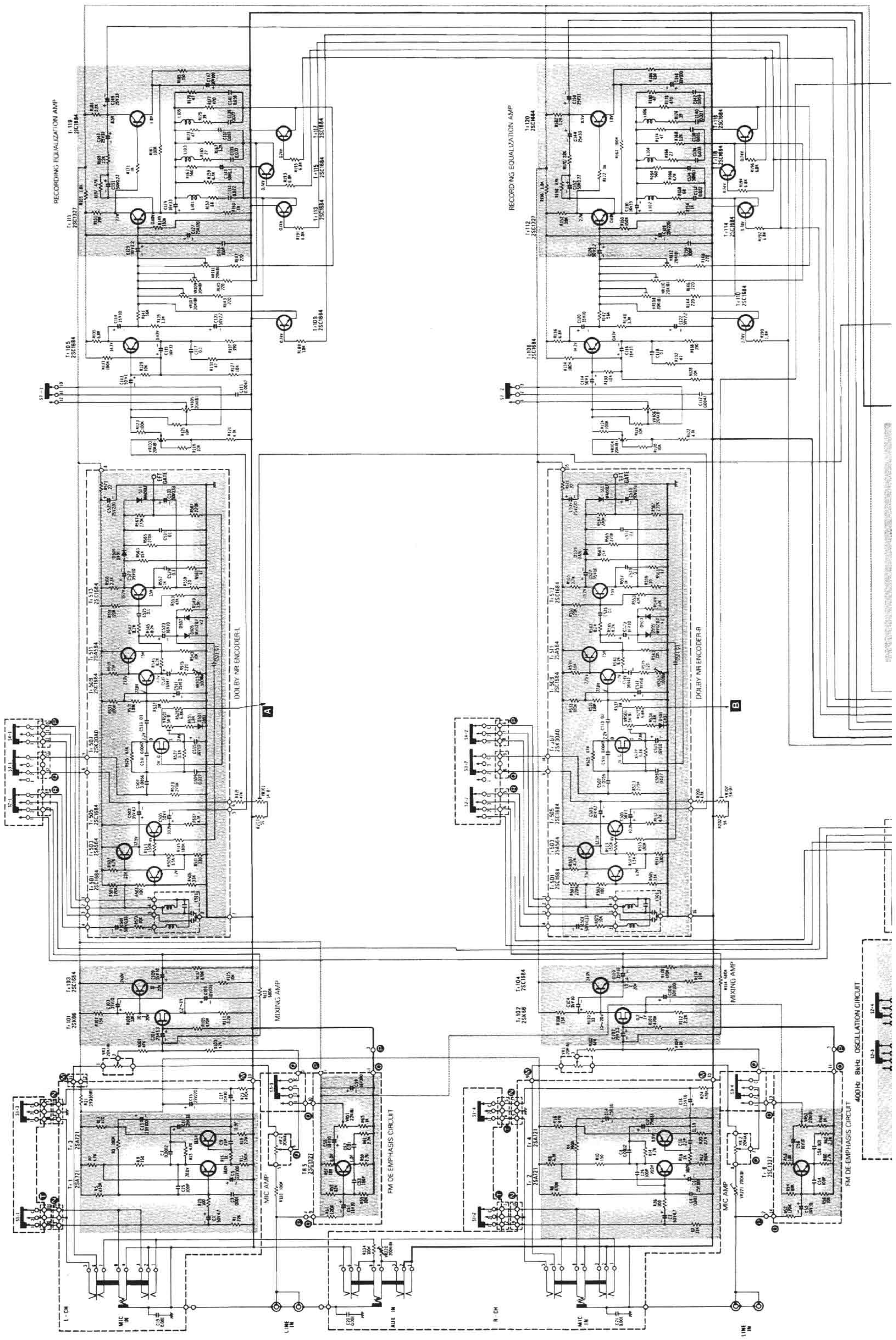
ions with volume

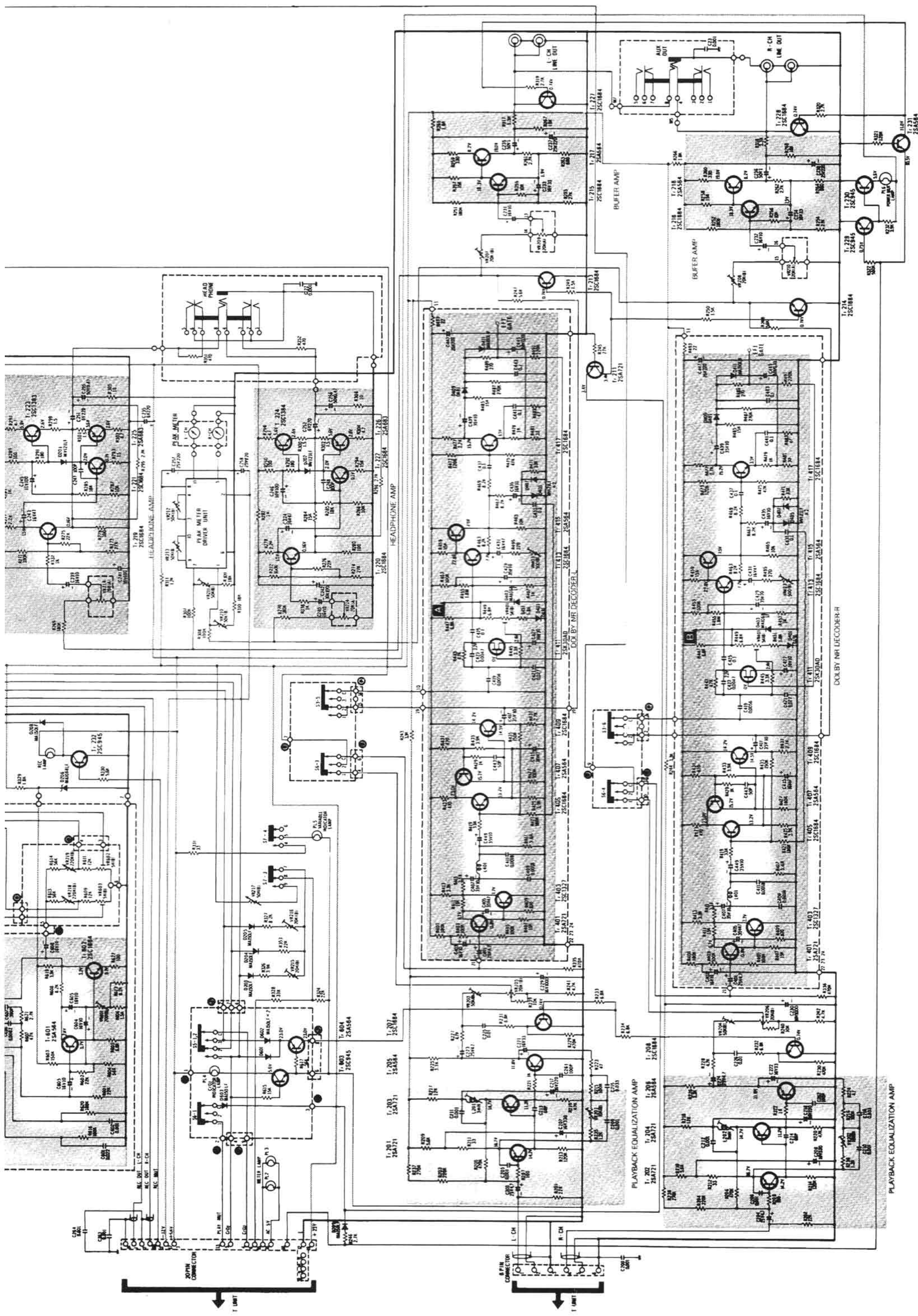
features important

parts be used

c.

SCHEMATIC DIAGRAM MODEL RS-9900US AMPLIFIER CIRCUITRY



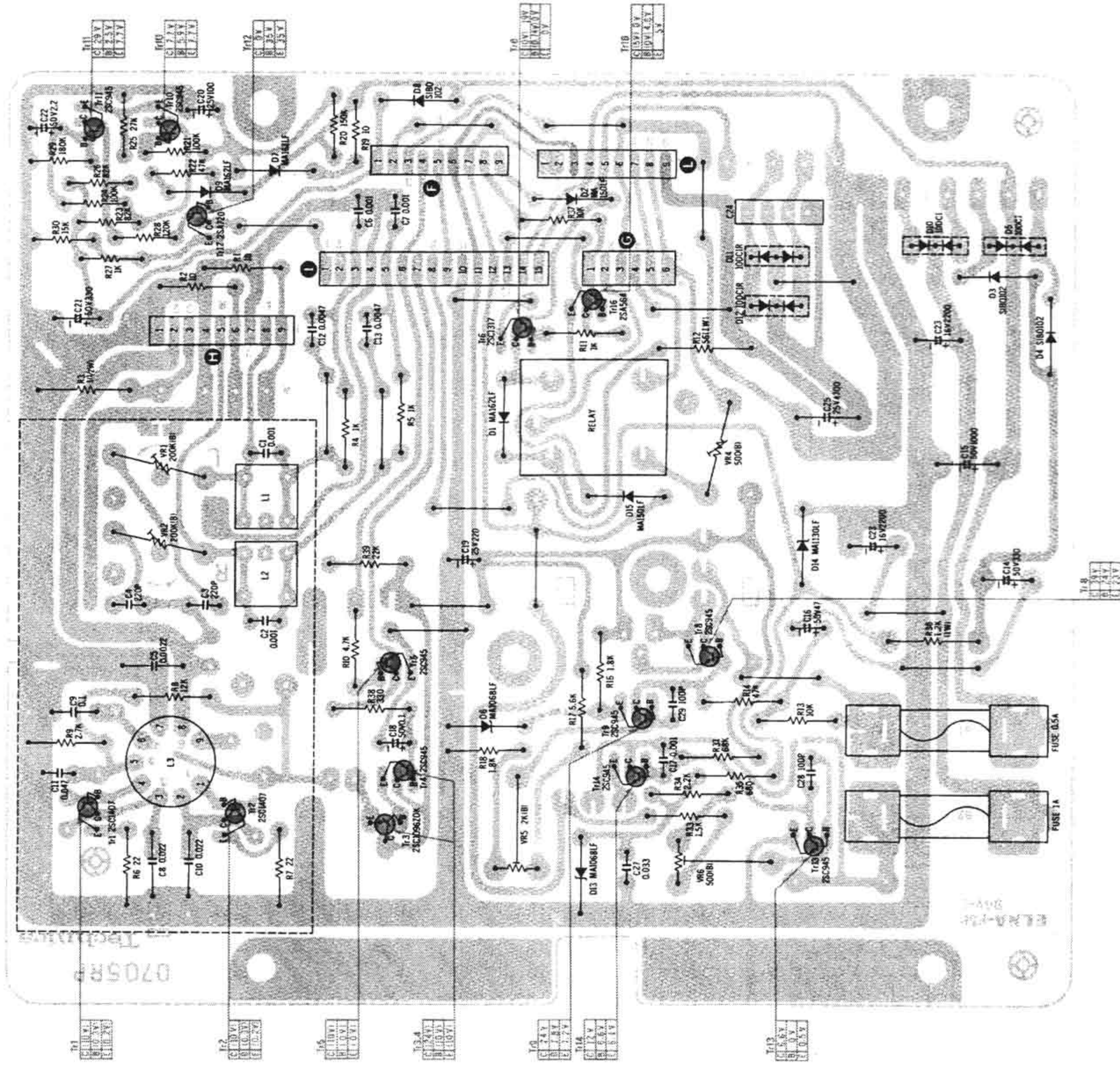


- ERMINATIONS (BOTTOM VIEW)**
- 25A771, 25C1327
 - 25C1884, 25A564
 - 25C845
- NOTE:**
- 1. S1-1 - S1-4 MIC ATT switch (shown in "0dB" position)
 - 2. S2-1 - S2-2 OSC switch (shown in "OFF" position)
 - 3. S3-1 - S3-2 DOLBY NR switch (shown in "ON" position)
 - 4. S4-1 - S4-2 MPX FILTER switch (shown in "IN" position)
 - 5. S5 TAPE SELECT switch (shown in "NORMAL" position)
 - 6. S6-1 - S6-4 MONITOR switch (shown in "TAPE" position)
 - 7. S7-1 - S7-2 CAL switch (shown in "PRESET" position)
- 8. VR1 MIC/AUX level control
 - 9. VR2 LINE IN level control
 - 10. VR5, VR52 FM cal adjustment VR
 - 11. VR101, VR102 Monitor level adjustment VR
 - 12. VR103, VR104 Record cal control
 - 13. VR105, VR106 Record EQ control
 - 14. VR107, VR108 Recording equalization adjustment VR (Fe-Cr)
 - 15. VR109, VR110 Recording equalization adjustment VR (NORMAL)
 - 16. VR111, VR112 Recording equalization adjustment VR (CO)
 - 17. VR201, VR202 Playback level adjustment VR
 - 18. VR203, VR204 Playback level adjustment VR
 - 19. VR205, VR206 Output level adjustment VR
 - 20. VR207, VR208 Output level adjustment VR
- 22. VR210, VR211 VU meter adjustment VR (at 0dB)
 - 23. VR212, VR213 VU meter adjustment VR (at -20dB)
 - 24. VR214 Headphone level adjustment VR
 - 25. VR215 Bias current adjustment VR (CrO₂)
 - 26. VR216 Bias current adjustment VR (Fe-Cr)
 - 27. VR217 Bias current control
 - 28. VR218, VR219 OSC cal control
 - 29. VR220 AUX input level adjustment VR
 - 30. VR221 LINE IN input level adjustment VR
 - 31. VR601 OSC cal adjustment VR
 - 32. L101, L102 Recording peaking adjustment coil (Fe-Cr)
 - 33. L103, L104 Recording peaking adjustment coil (NORMAL)
 - 34. L105, L106 Recording peaking adjustment coil (CO)
- 36. L201, L202 Bias trap adjustment coil
 - 37. PL1 Record indication lamp
 - 38. PL2, PL3 Meter lamp
 - 39. PL4 CR₂ indication lamp
 - 40. PL5 Variable indication lamp
 - 41. K = 1,000Ω
 - 42. Capacitor values are in microfarads (μF) unless specified otherwise
 - 43. All voltage values shown in circuit are under no signal conditions with volume at minimum position
 - 44. For measurement, use VTVM
 - 45. Ⓢ indicates the connectors

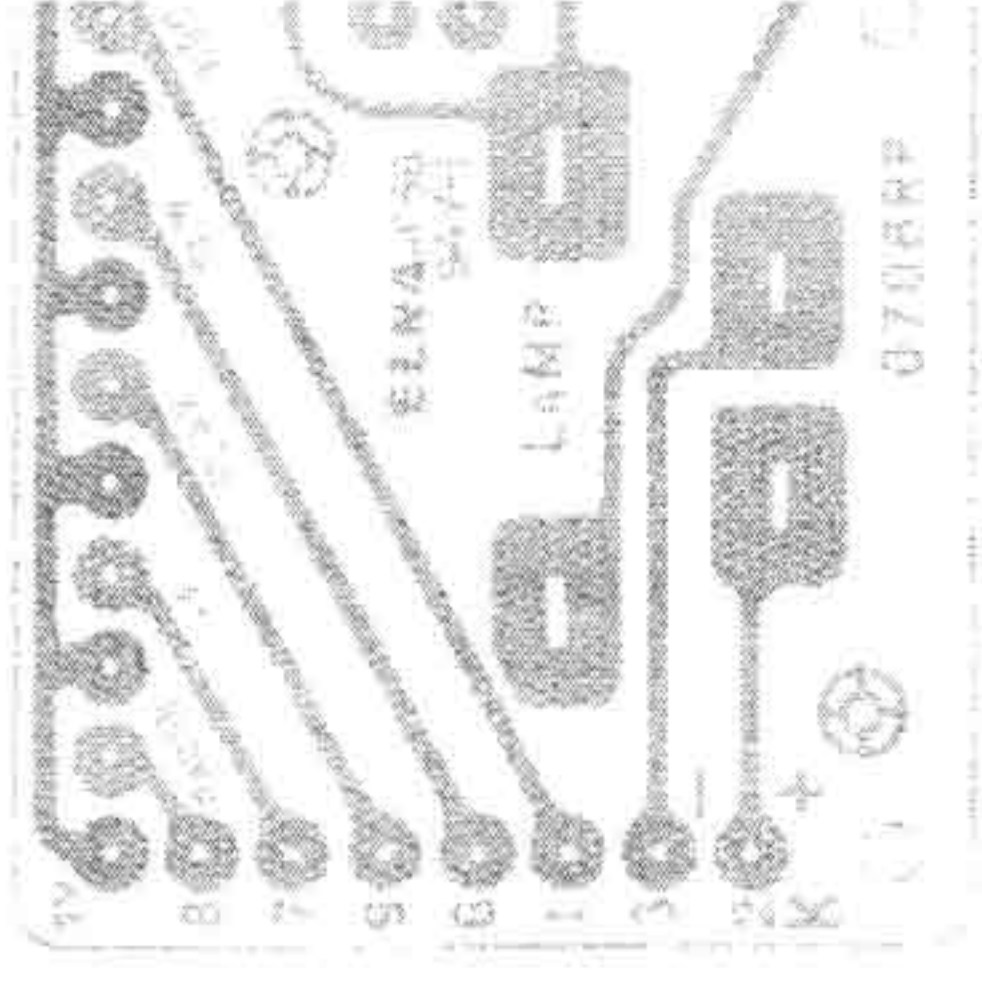
TAPE TRANSPORT UNIT

CIRCUIT BOARD MODEL RS-9900US

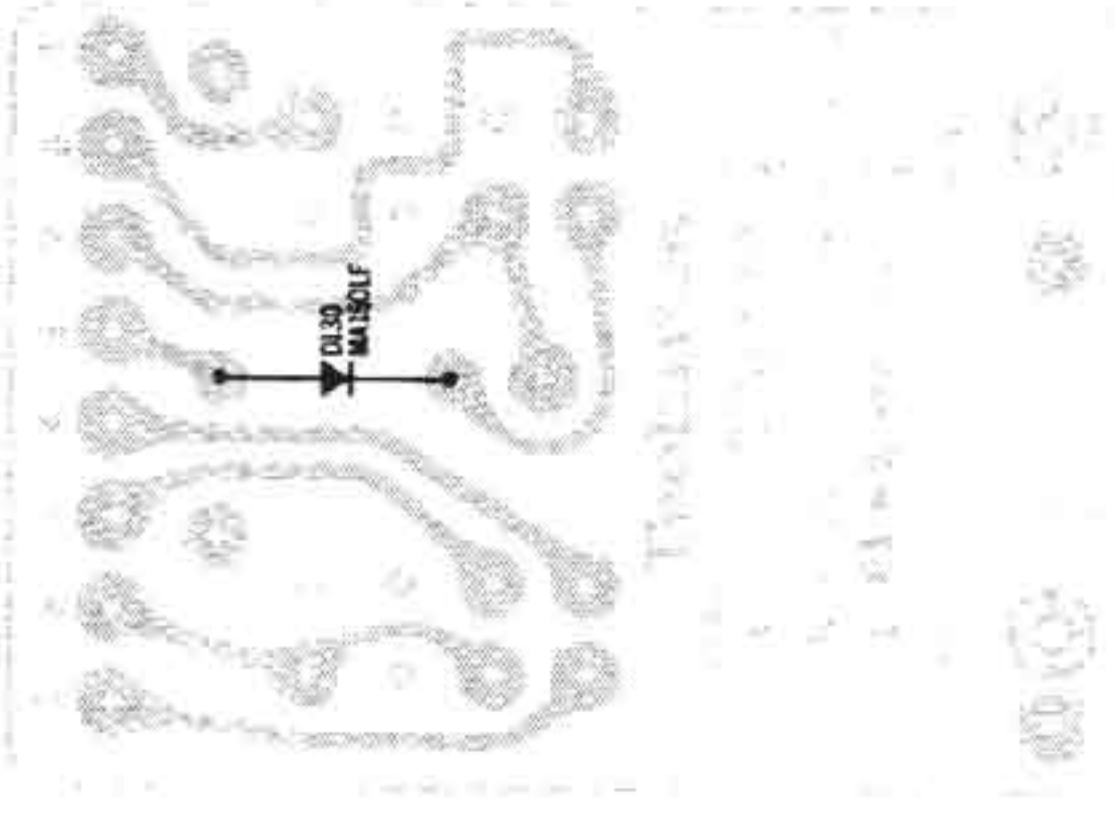
POWER CIRCUIT BOARD



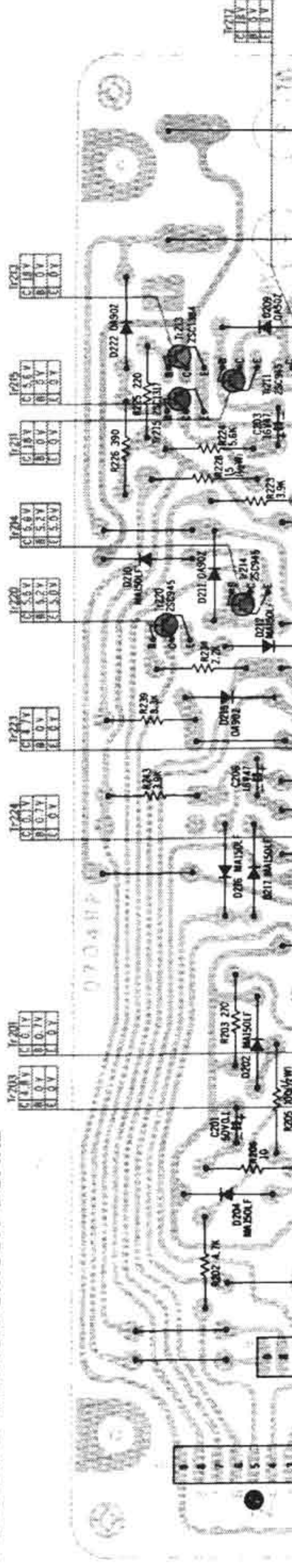
OPERATION CIRCUIT BOARD

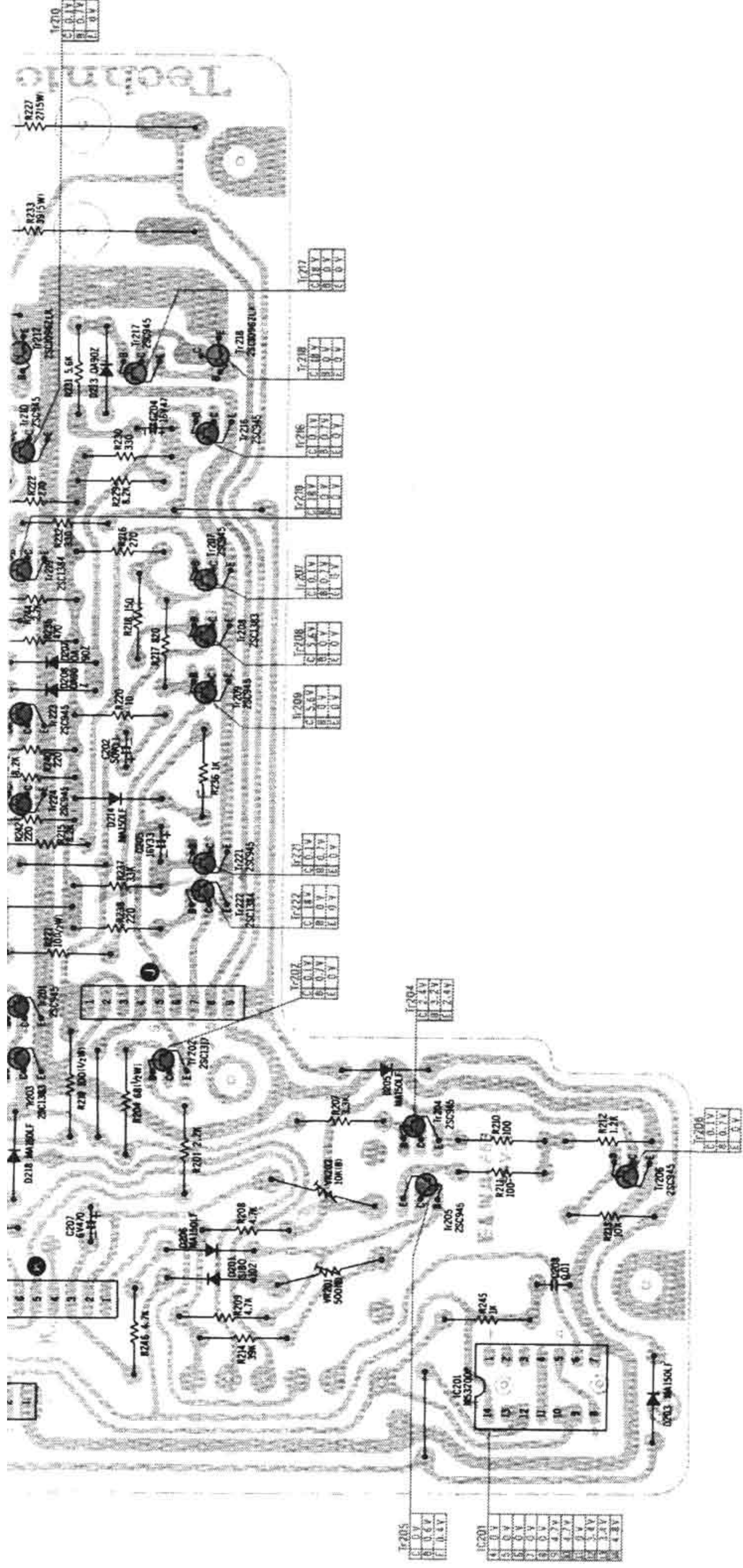


SWITCHES CIRCUIT BOARD

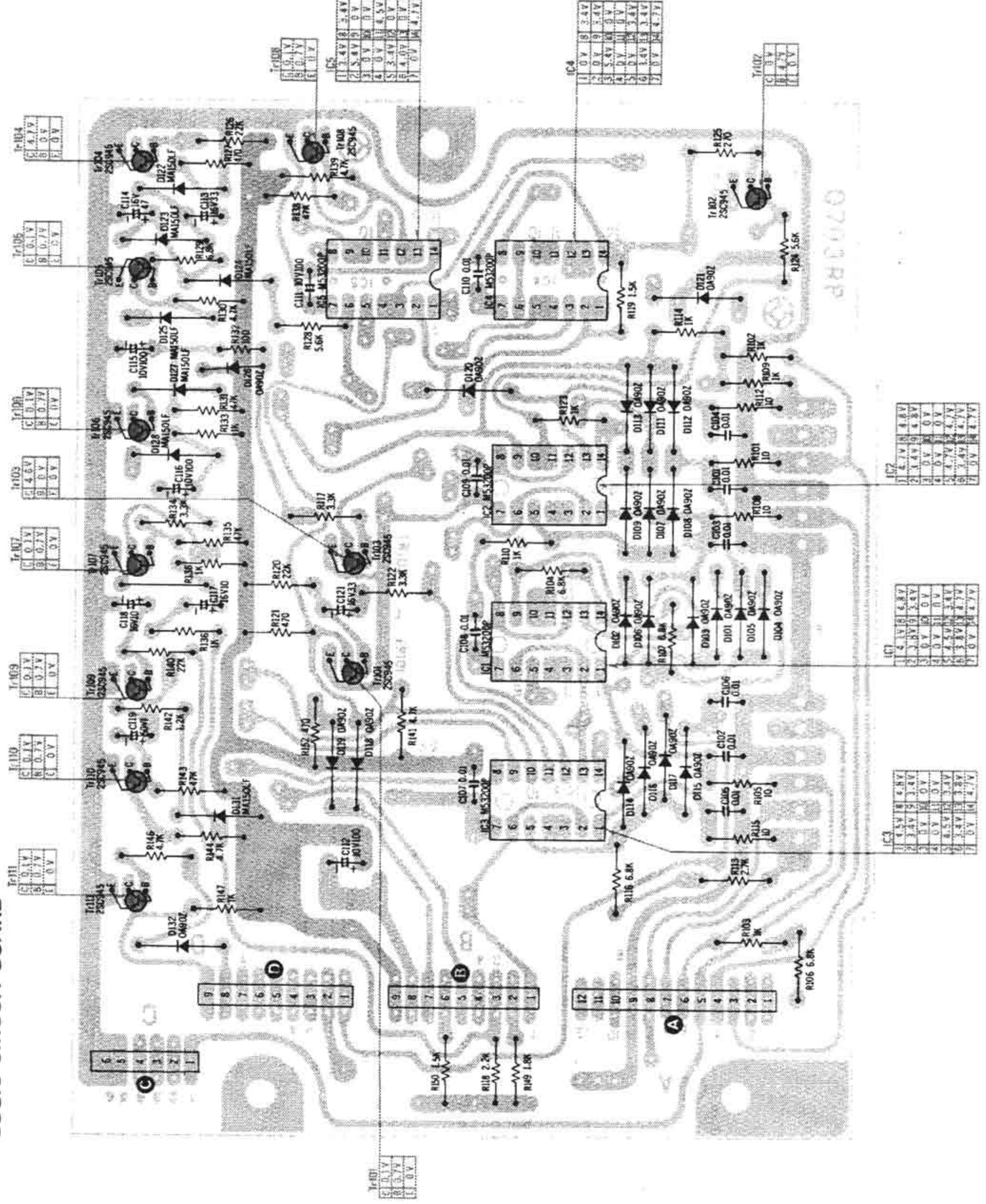


PLUNGER OPERATION CIRCUIT BOARD





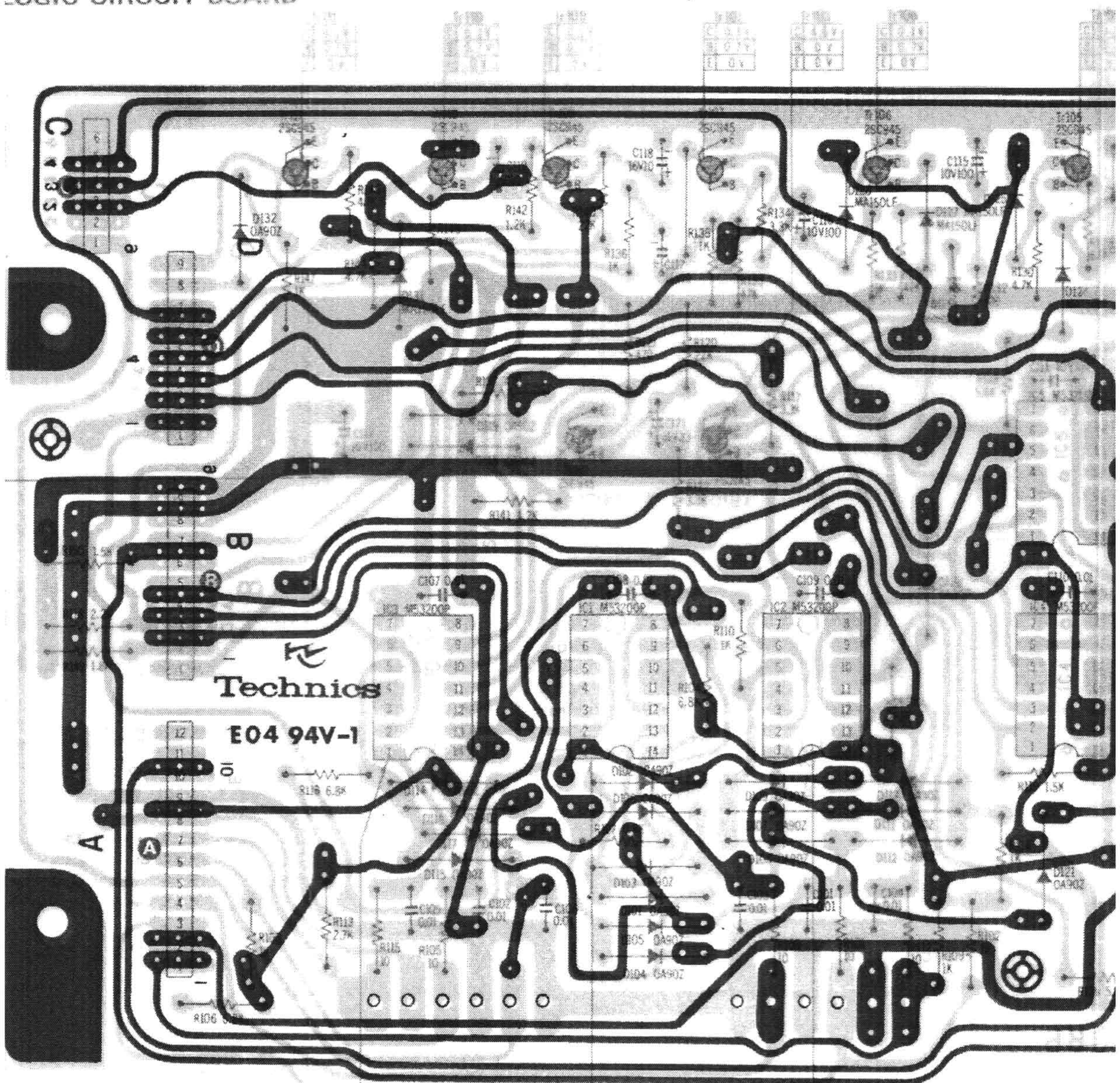
LOGIC CIRCUIT BOARD



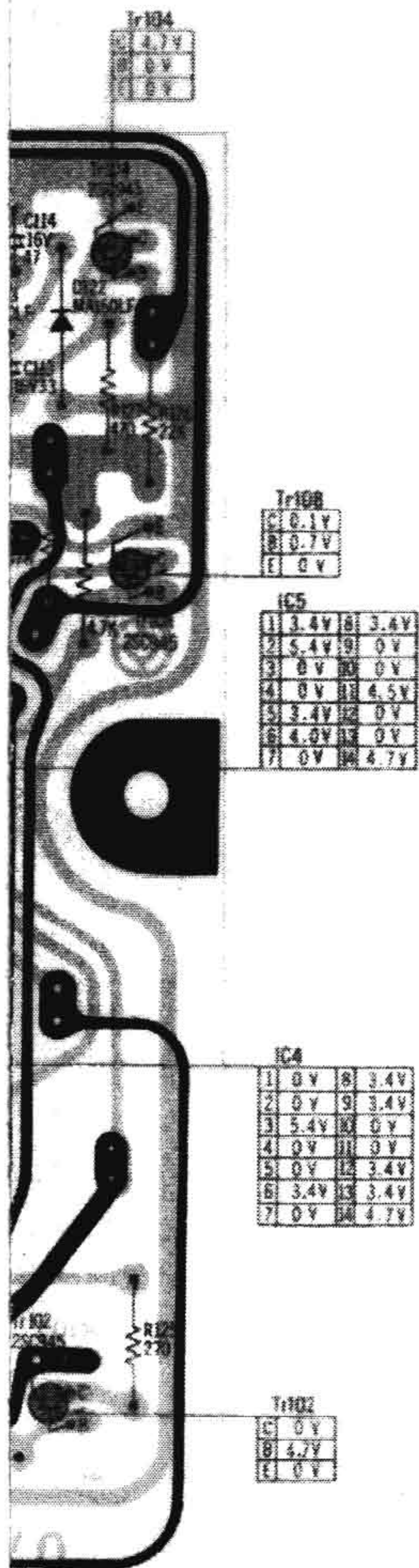
NOTE:

The circuit shown in red on the conductor is B circuit.
 Values indicated in are DC voltage between the chassis and electrical parts.
 The upper values should be measured during recording and the lower values during playback (Audio circuit).
 The upper values should be measured during FM and the lower values during AM (Radio circuit).

LOGIC CIRCUIT BOARD



Technics
E04 94V-1



NOTE:

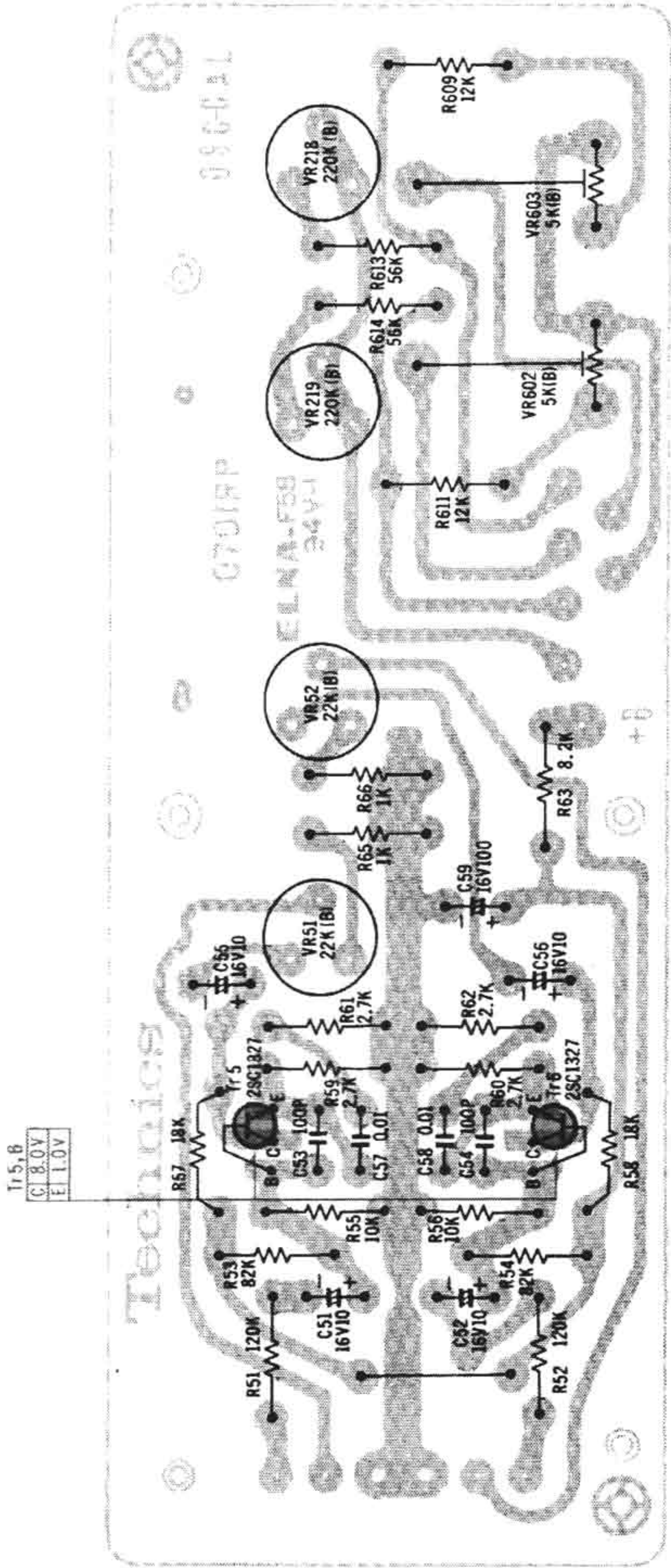
The circuit shown in red on the conductor is B circuit.
Values indicated in are DC voltage between the chassis and electrical parts.

The upper values should be measured during recording and the lower values during playback (Audio circuit).

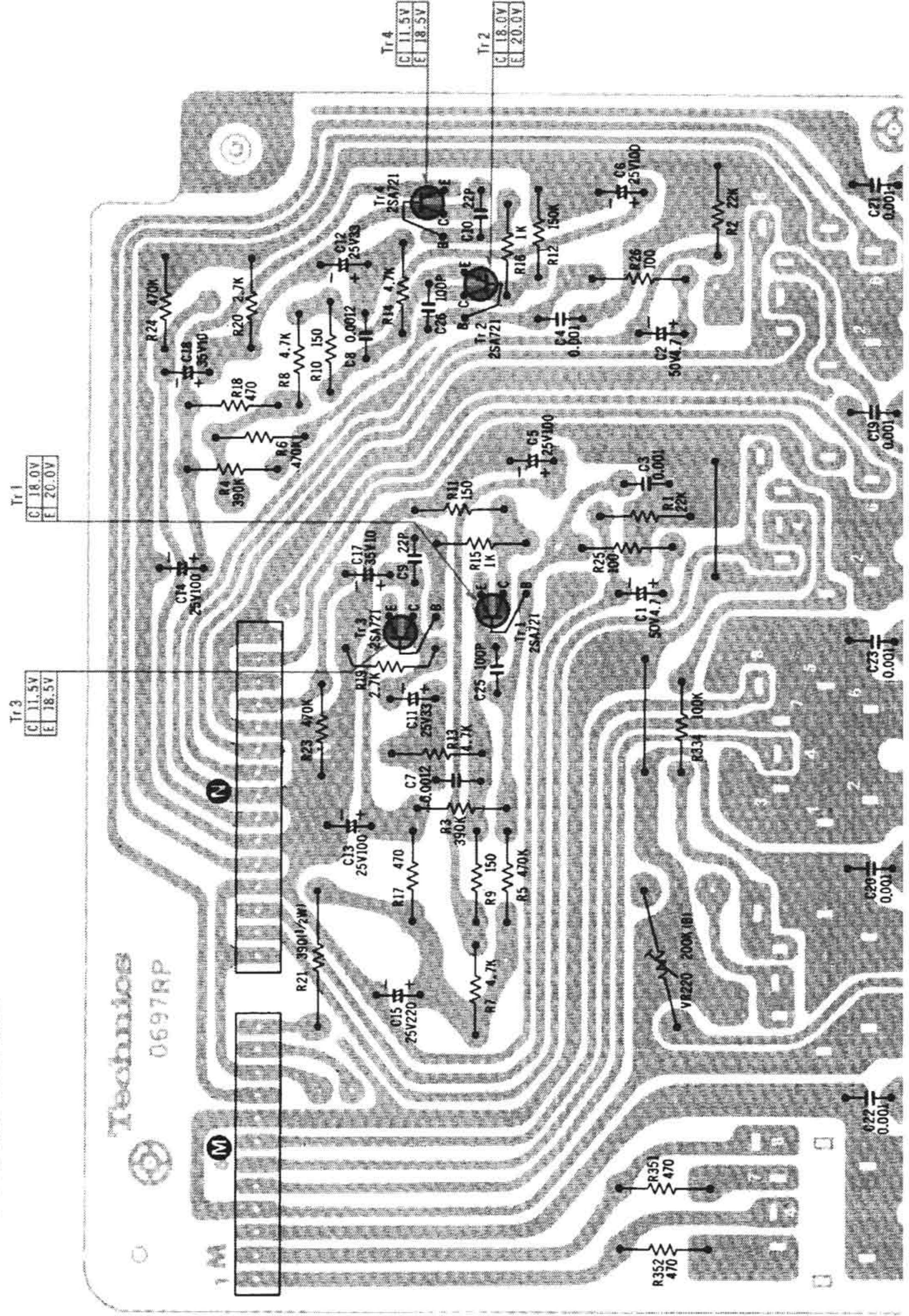
The upper values should be measured during FM and the lower values during AM (Radio circuit).

CIRCUIT BOARD MODEL RS-9900US

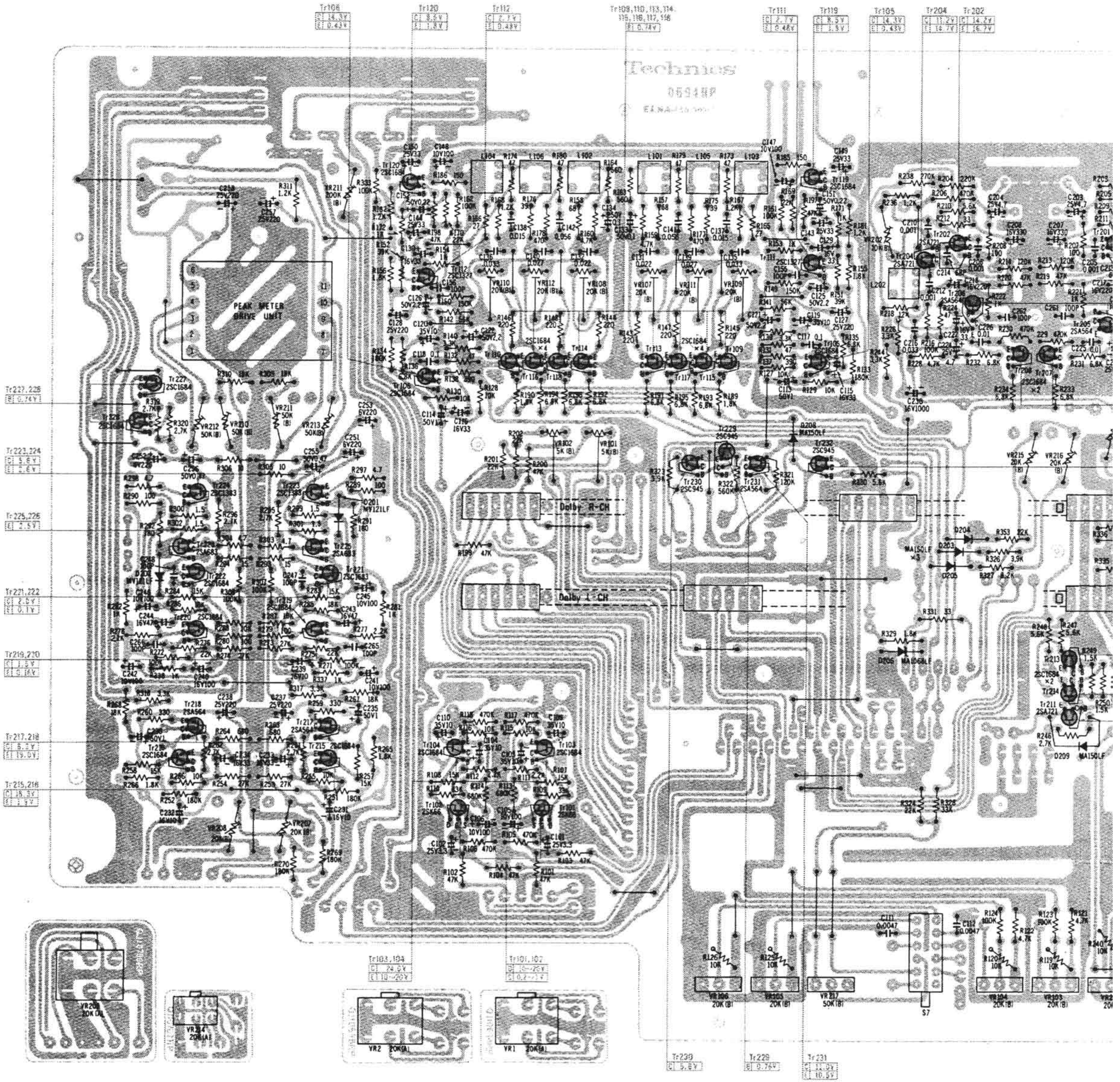
CALIBRATOR CIRCUIT BOARD



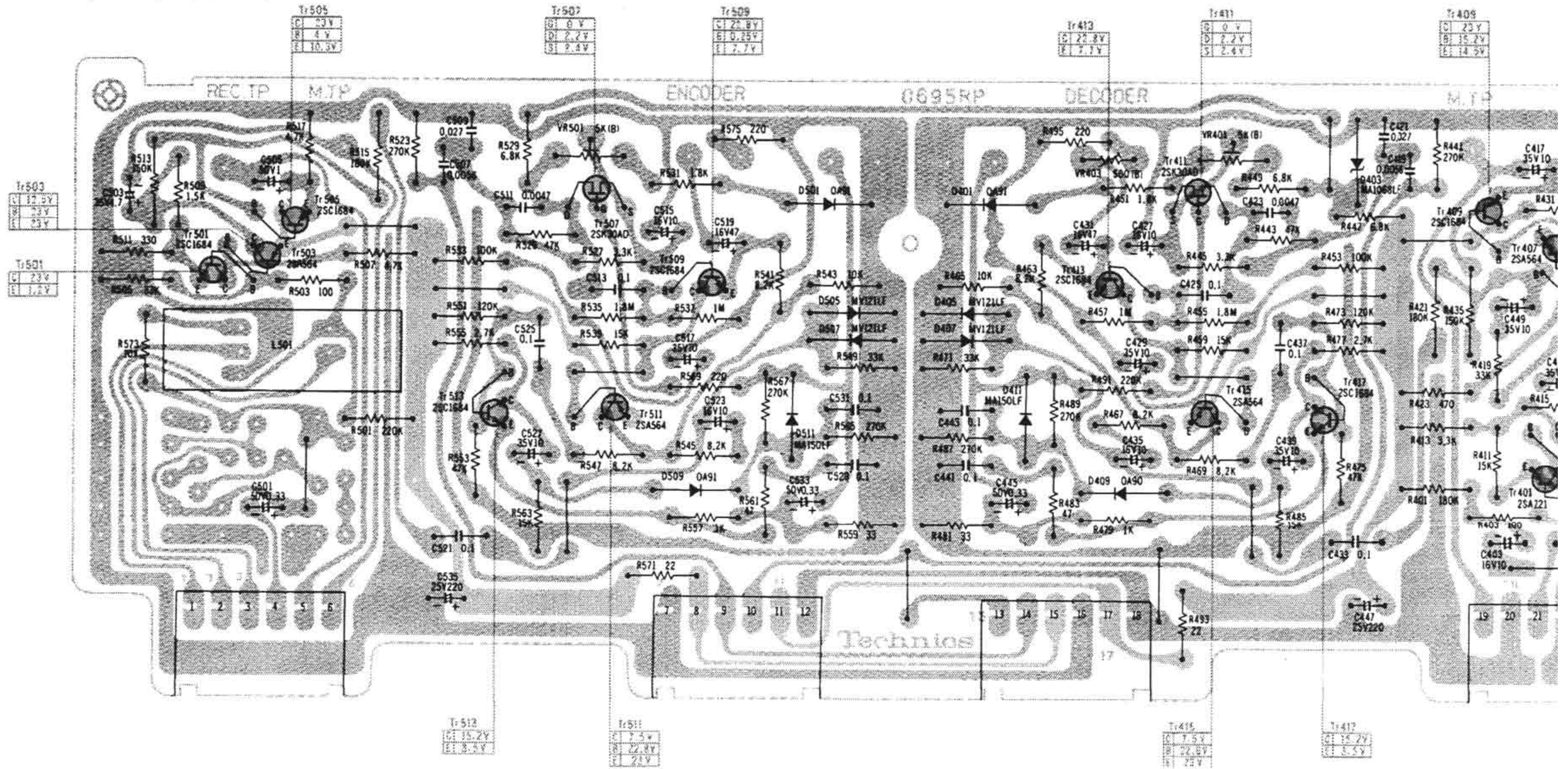
JACK CIRCUIT BOARD



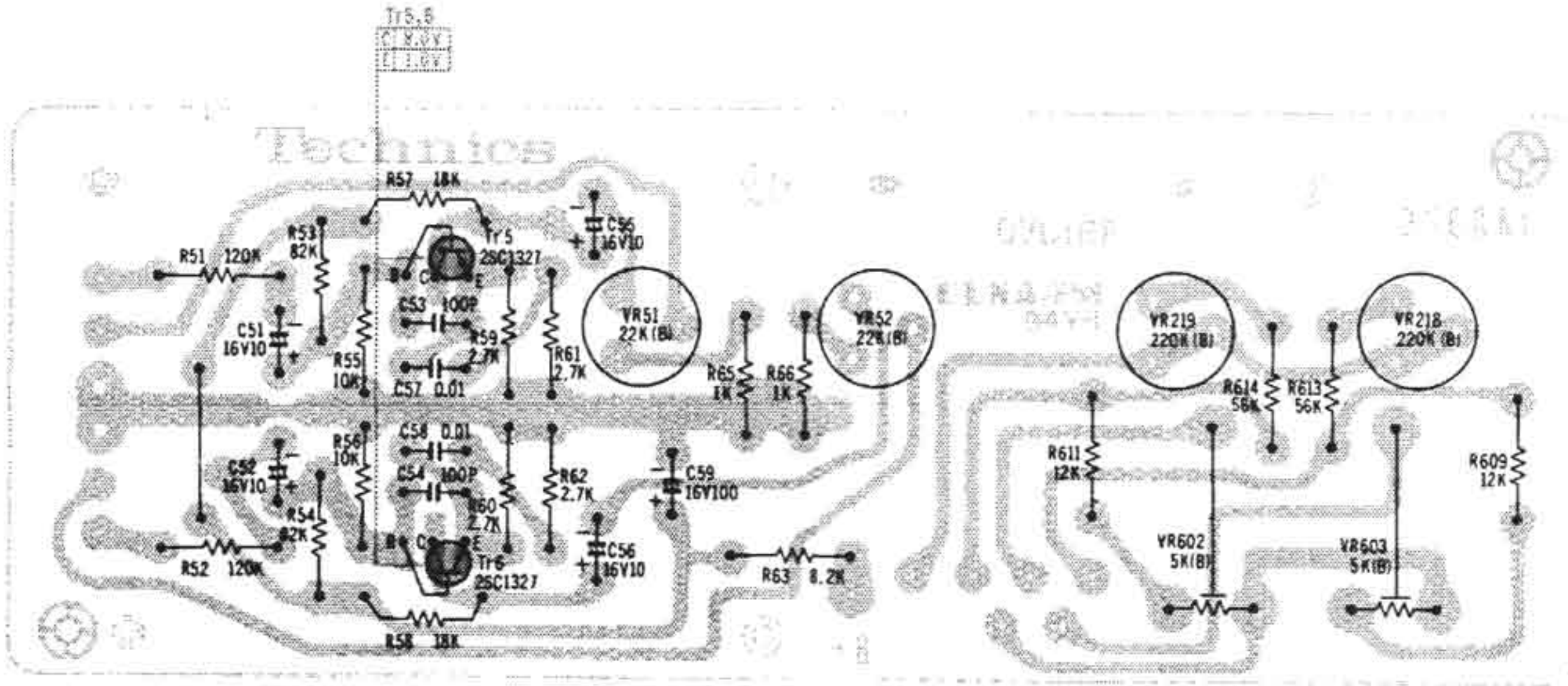
MAIN CIRCUIT BOARD



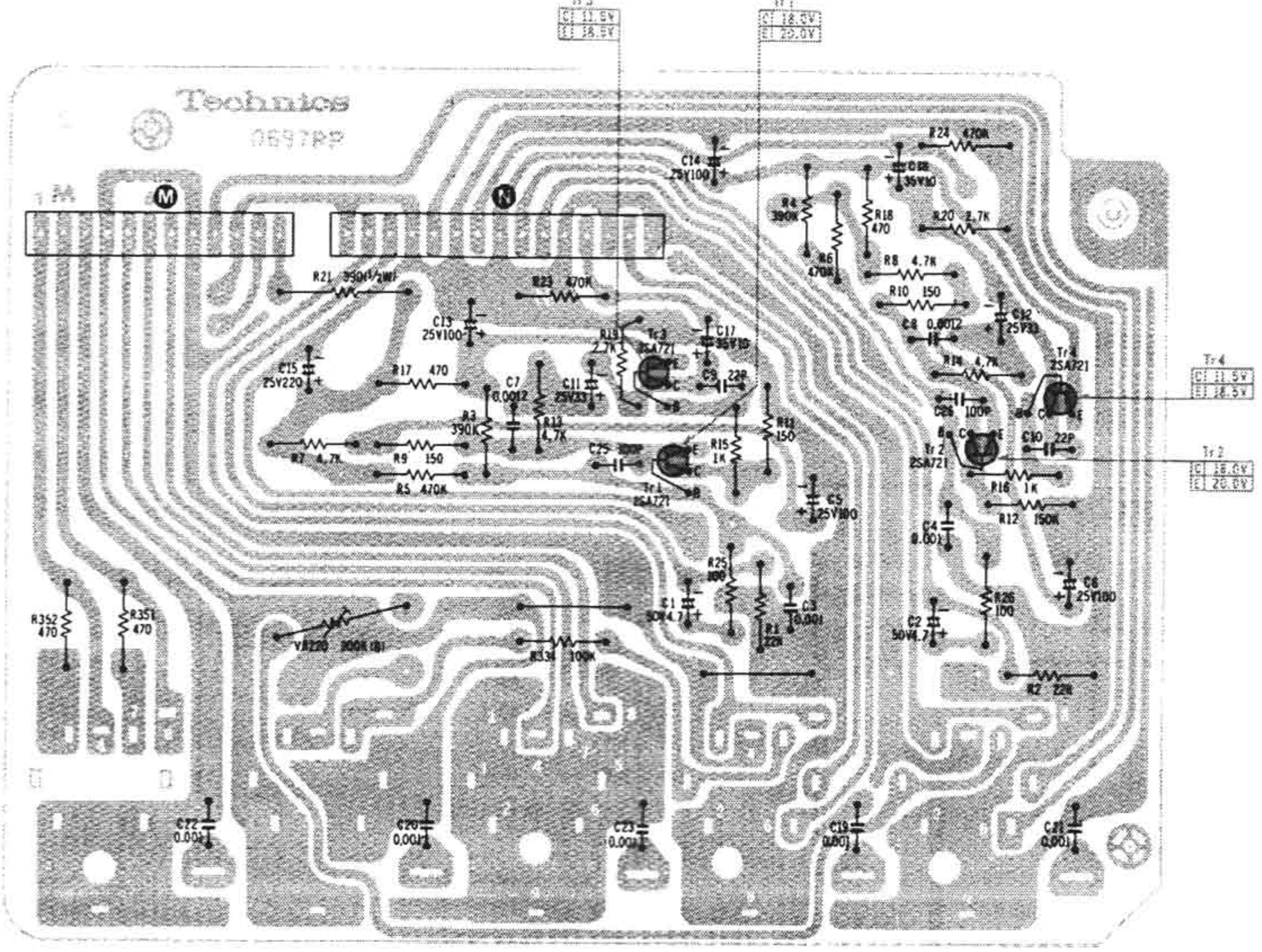
DOLBY CIRCUIT BOARD



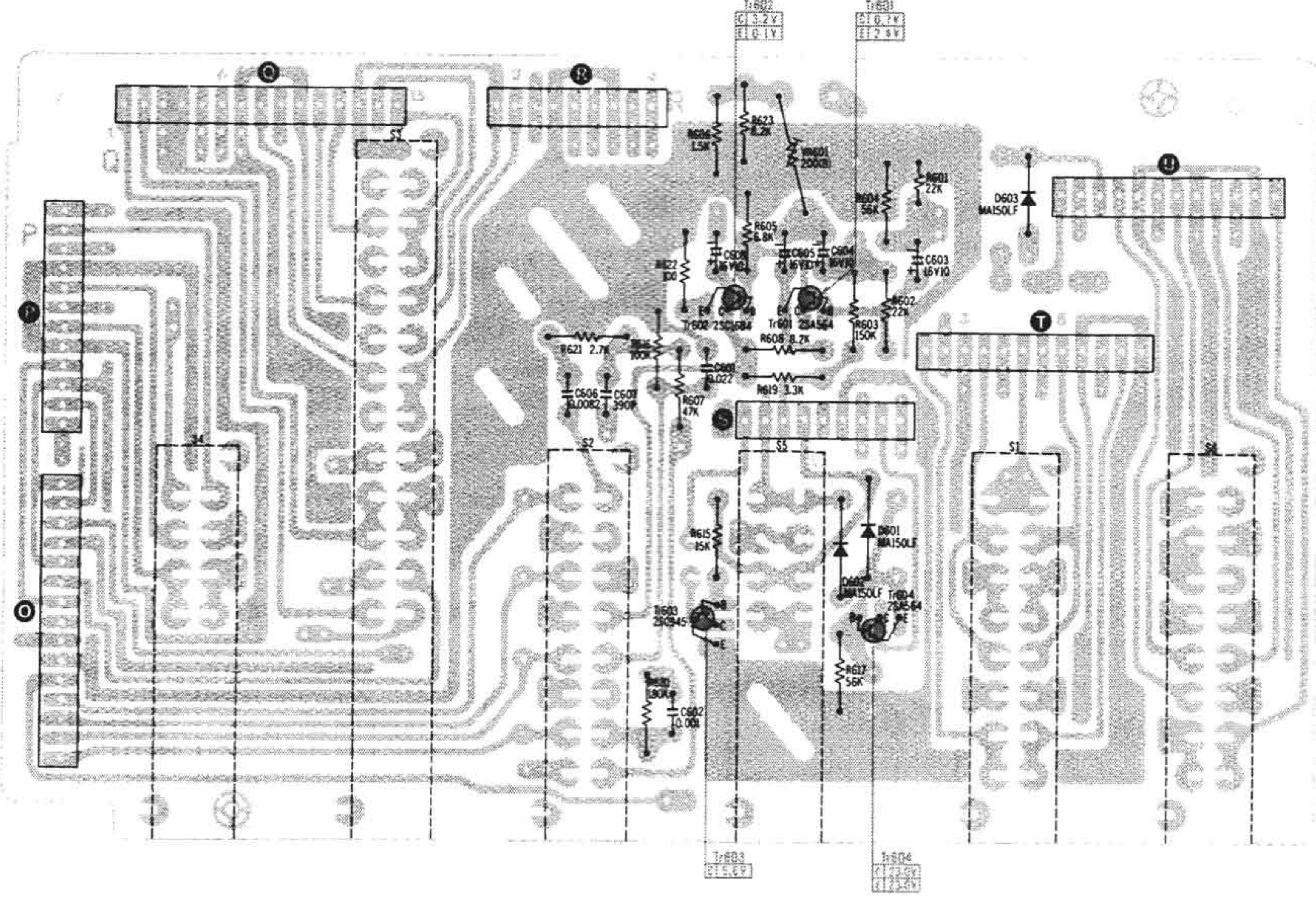
CALIBRATOR CIRCUIT BOARD



JACK CIRCUIT BOARD

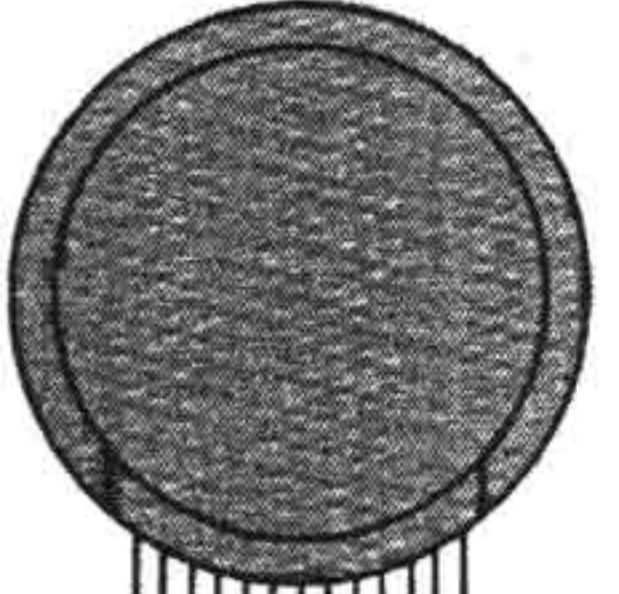


LEVER SWITCHES CIRCUIT BOARD

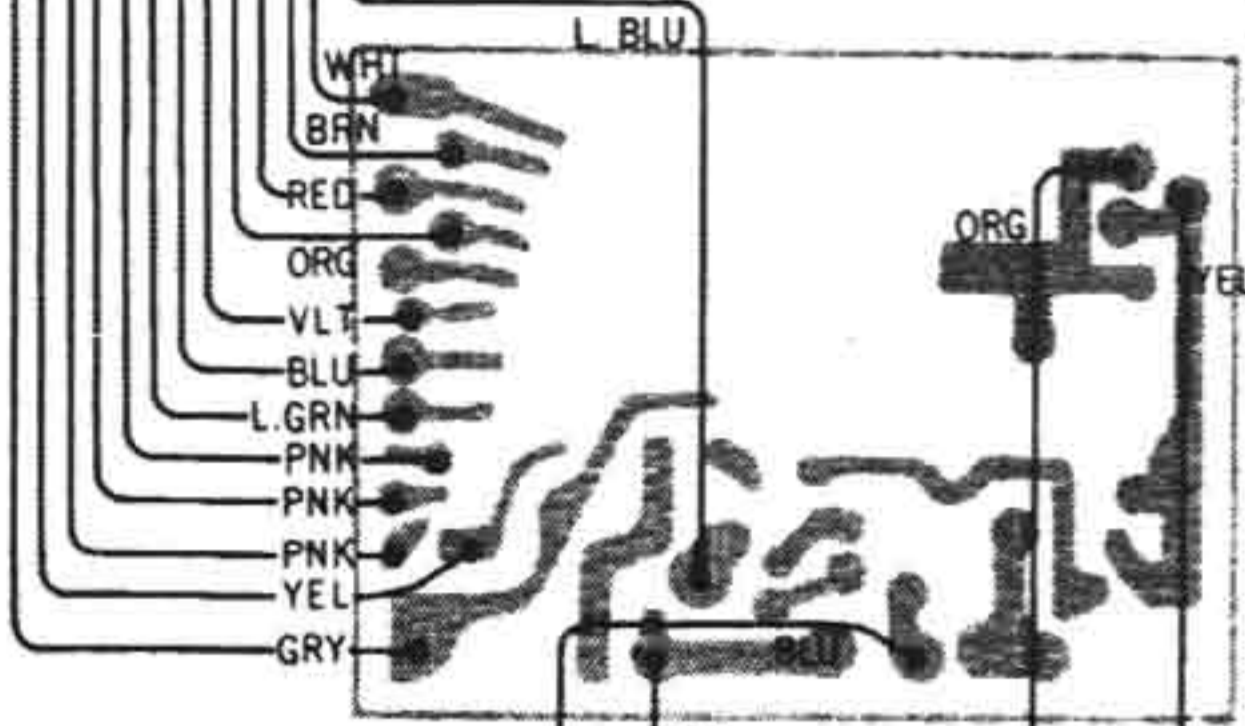


NOTE:
 The circuit shown in red on the conductor is B circuit.
 Values indicated in are DC voltage between the chassis and electrical parts.
 The upper values should be measured during recording and the lower values during playback (Audio circuit).
 The upper values should be measured during FM and the lower values during AM (Radio circuit).

CAPSTAN MOTOR



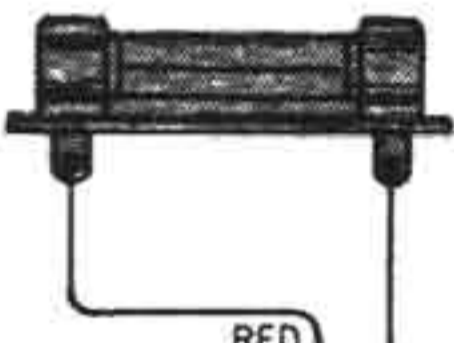
GOVERNOR CIRCUIT BOARD



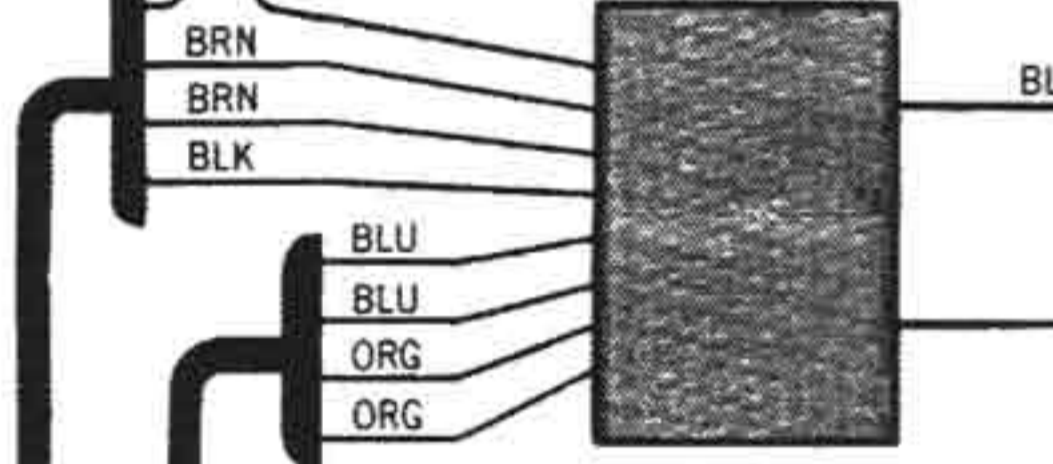
AC POWER CORD



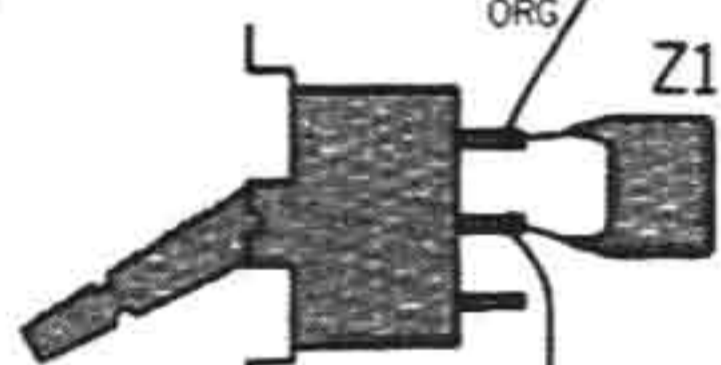
FUSE



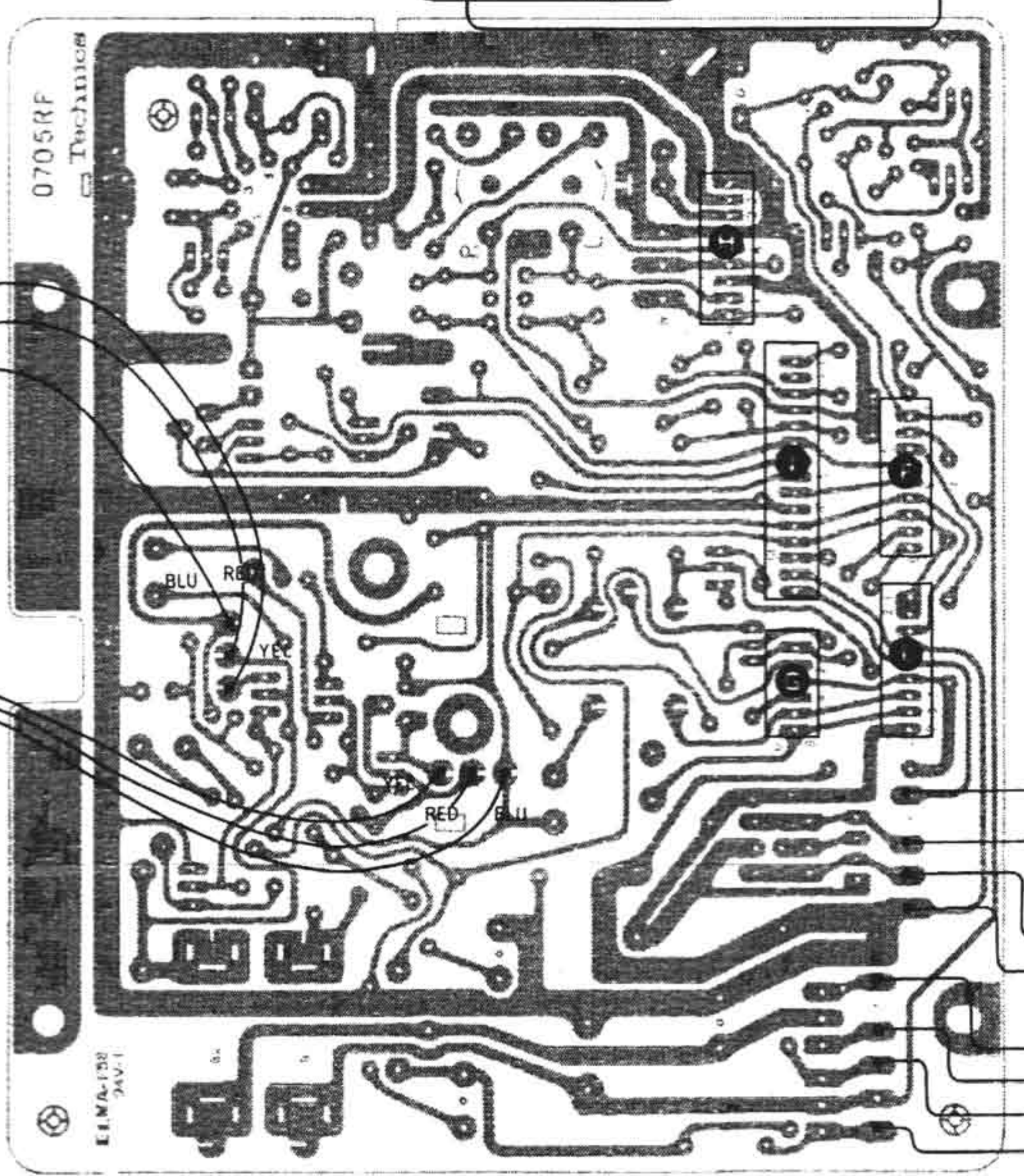
POWER TRANSFORMER



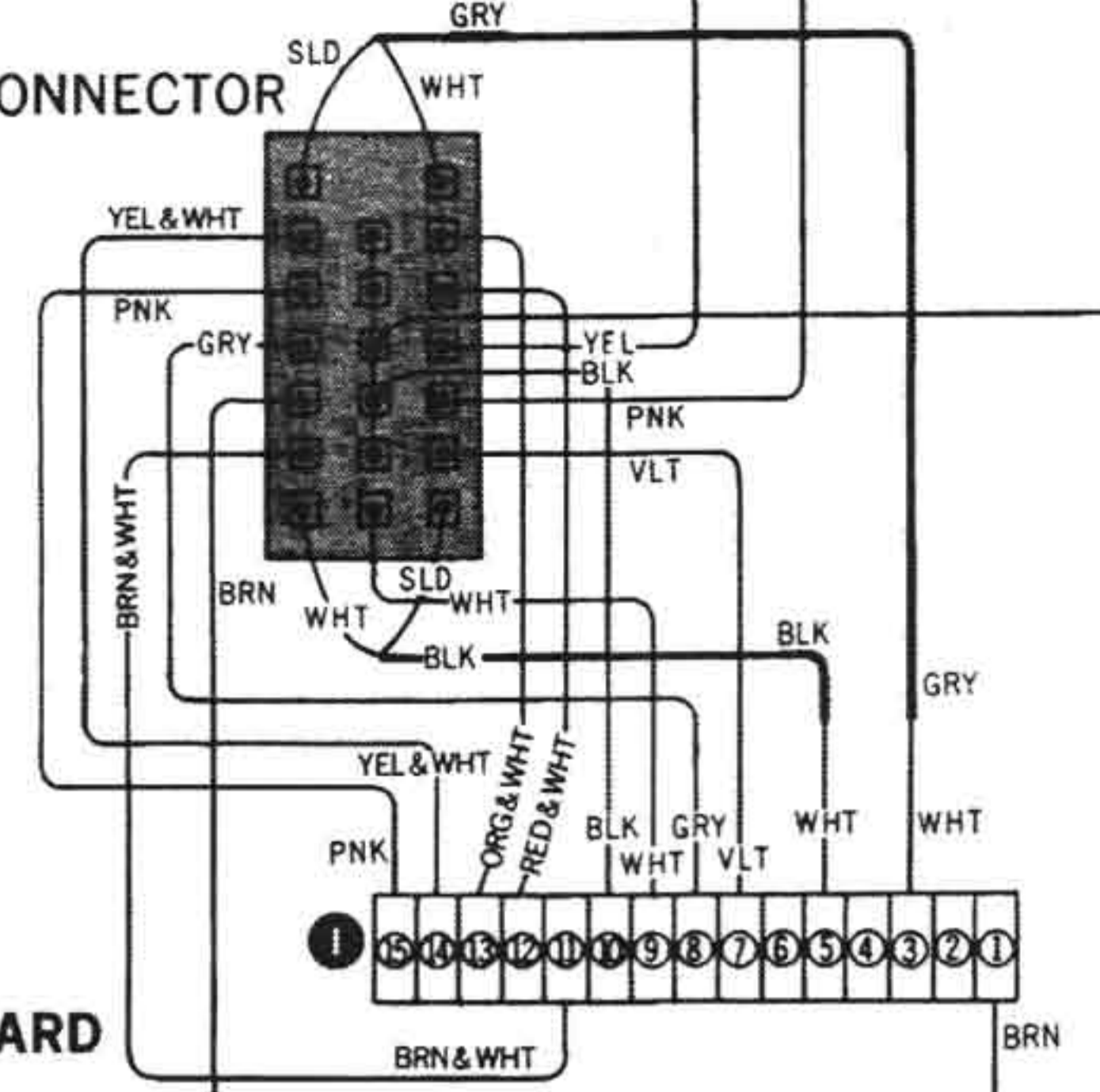
POWER SWITCH



POWER CIRCUIT BOARD



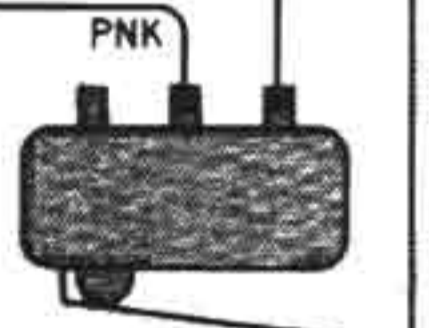
20P CONNECTOR



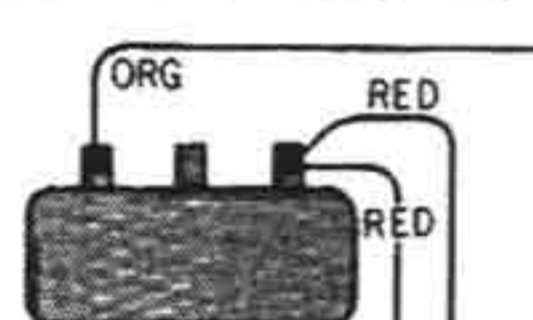
S201: EJECT SWITCH



S202: EJECT SAFETY SWITCH



S108: ERASE SAFETY SWITCH



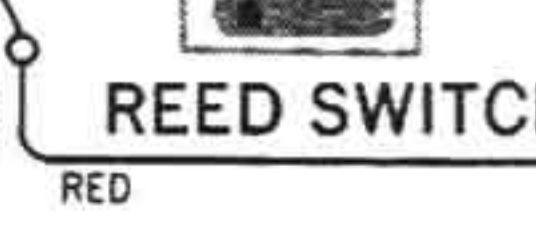
S107: CrO2 TAPE SENSOR



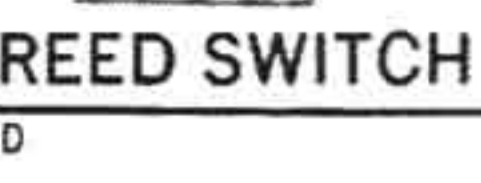
S109: CASSETTE DETECTING SWITCH



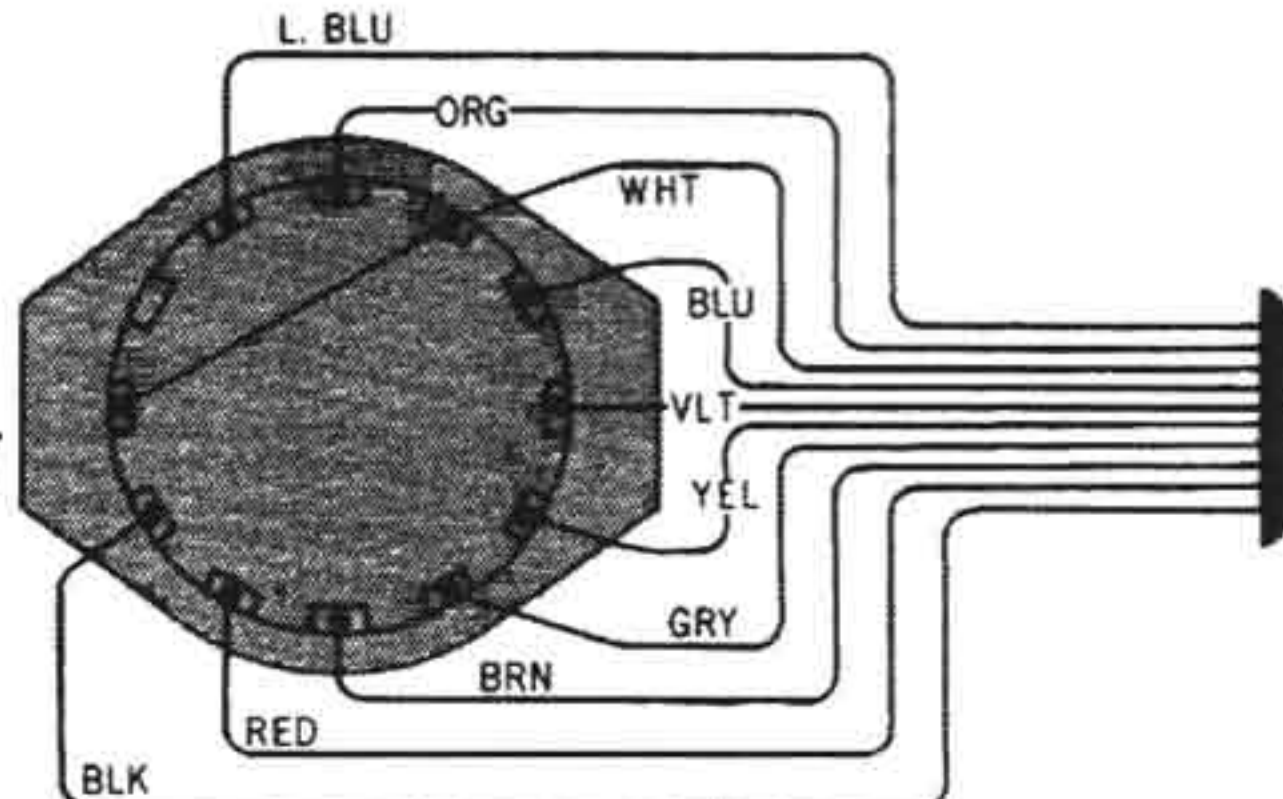
S110: TAPE COUNTER SWITCH



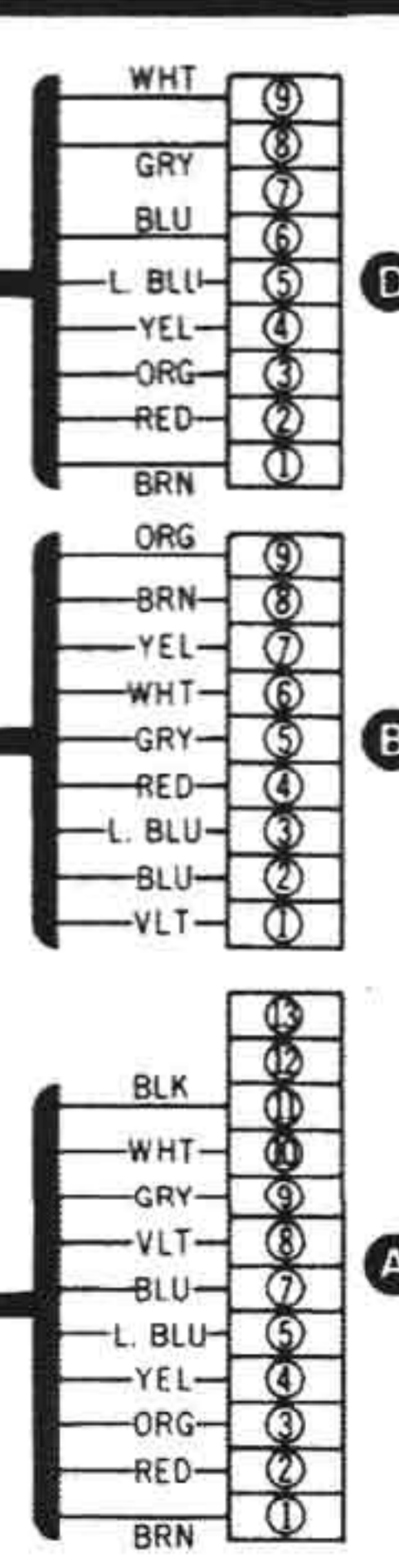
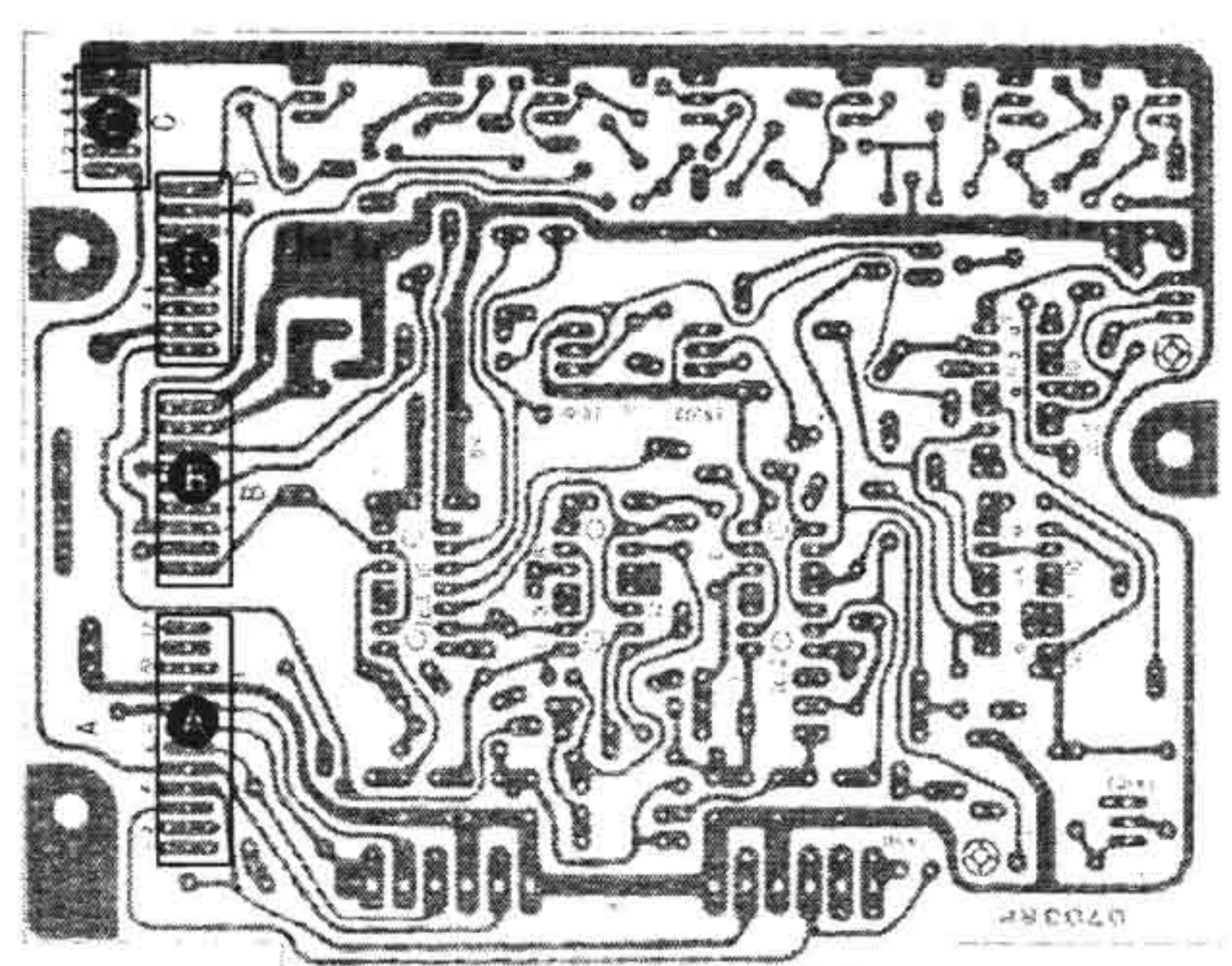
REED SWITCH



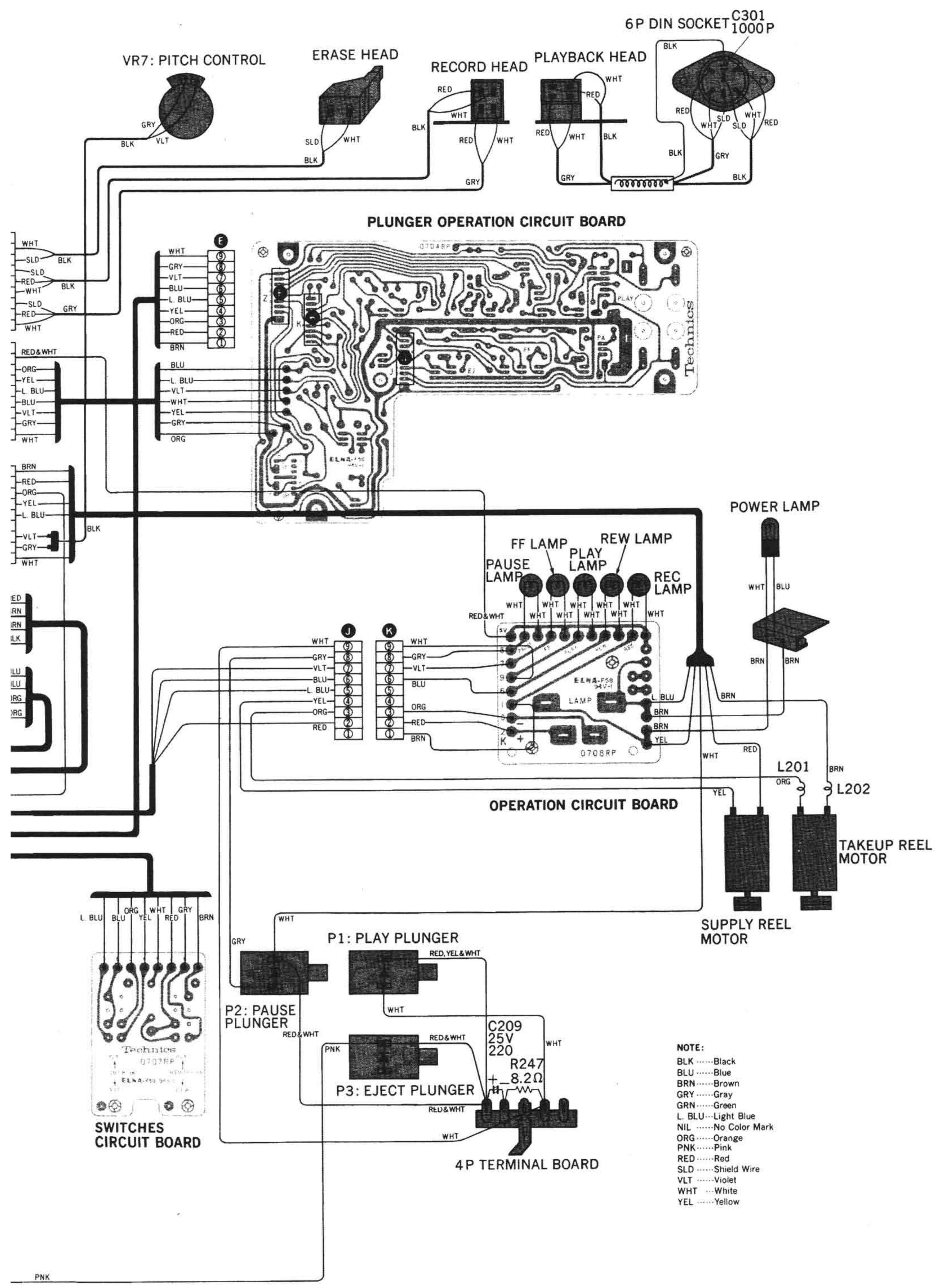
12P REMOTE CONTROL SOCKET



LOGIC CIRCUIT BOARD

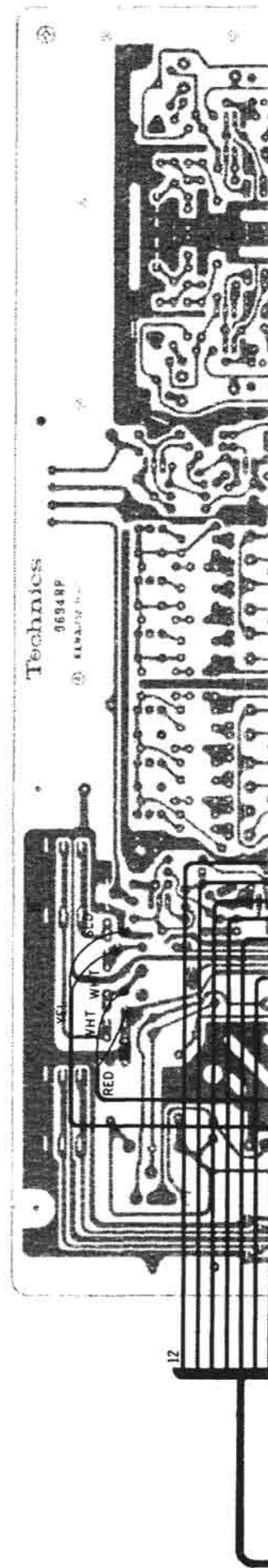
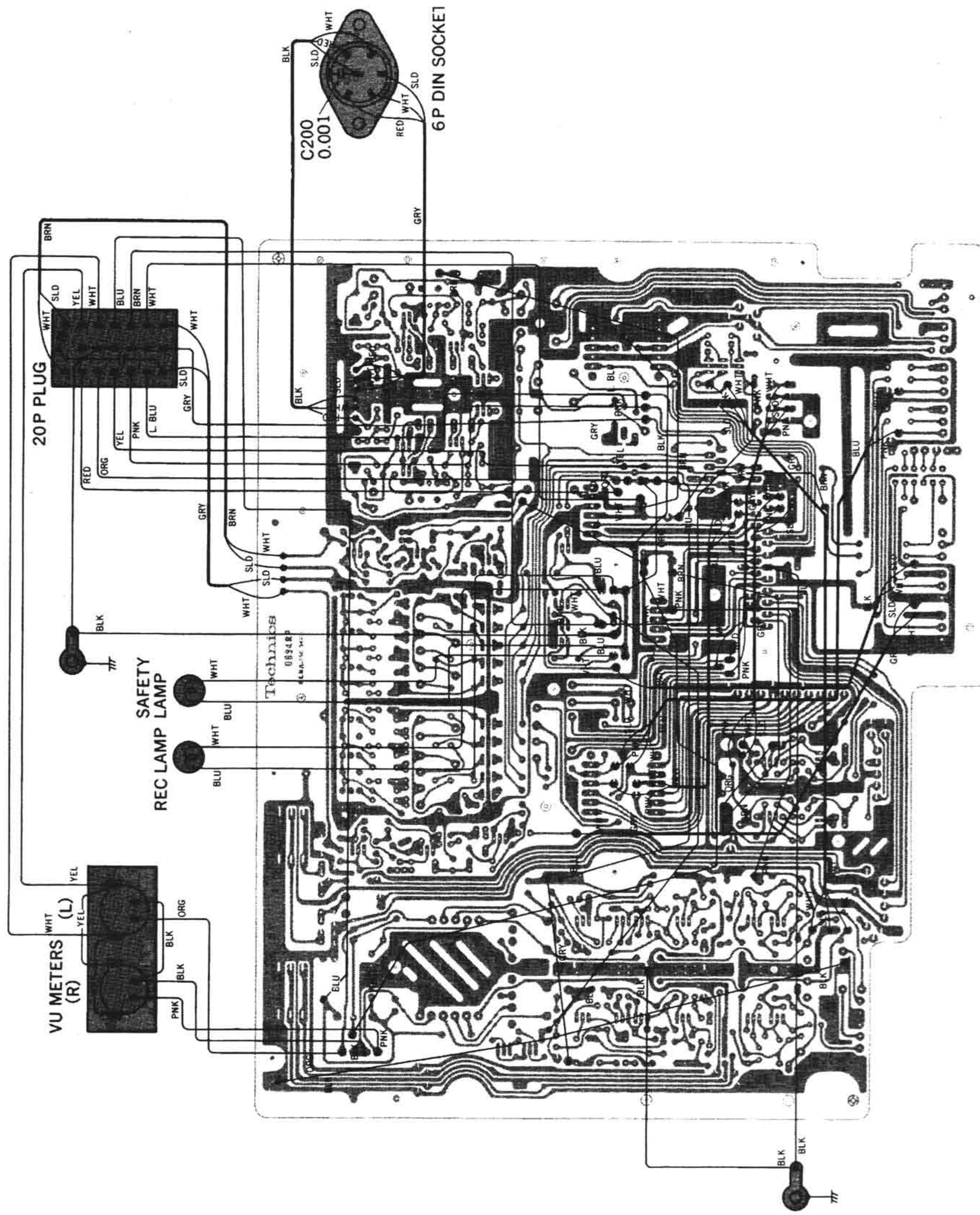


WIRING CONNECTION DIAGRAM MODEL RS-9900US



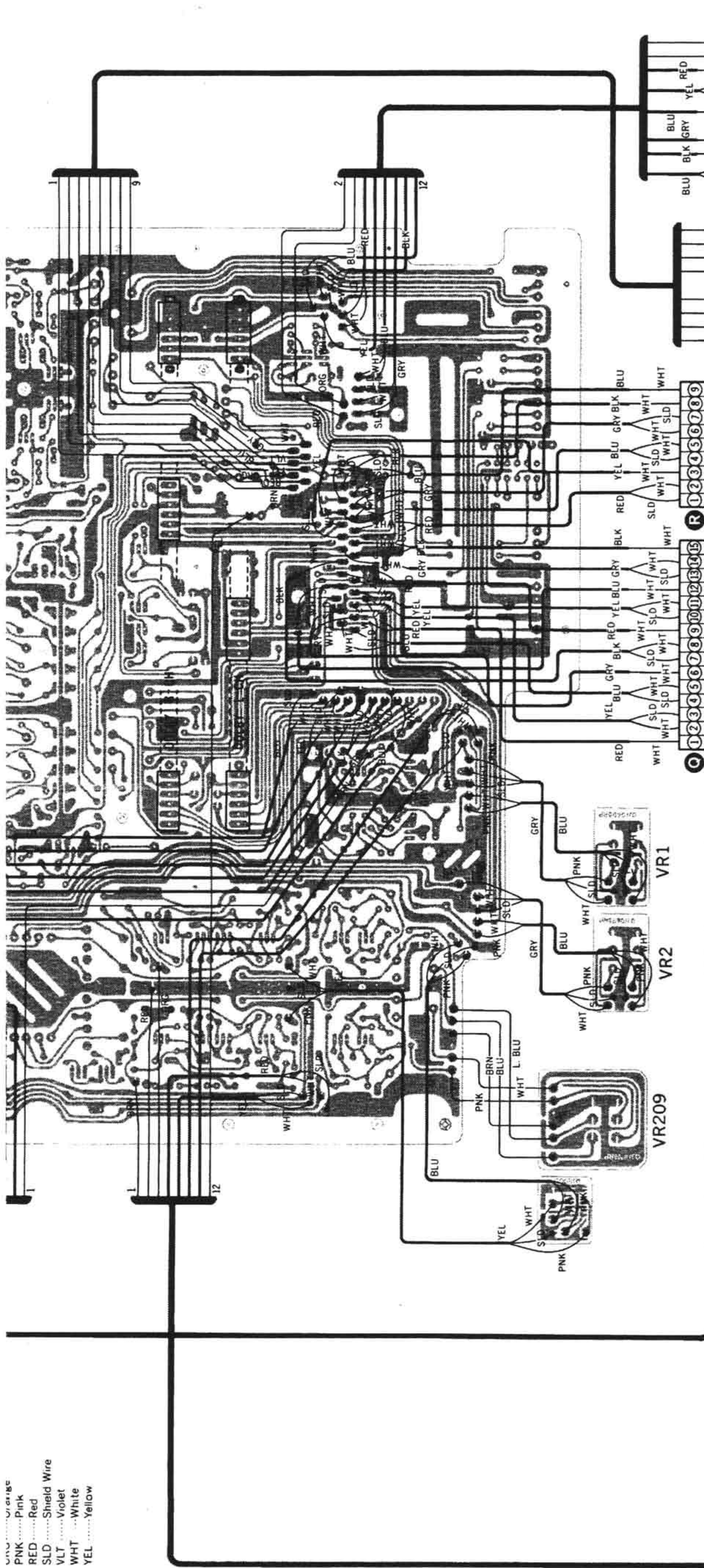
AMPLIFIER UNIT

WIRING CONNECTION DIAGRAM MODEL RS-9900US

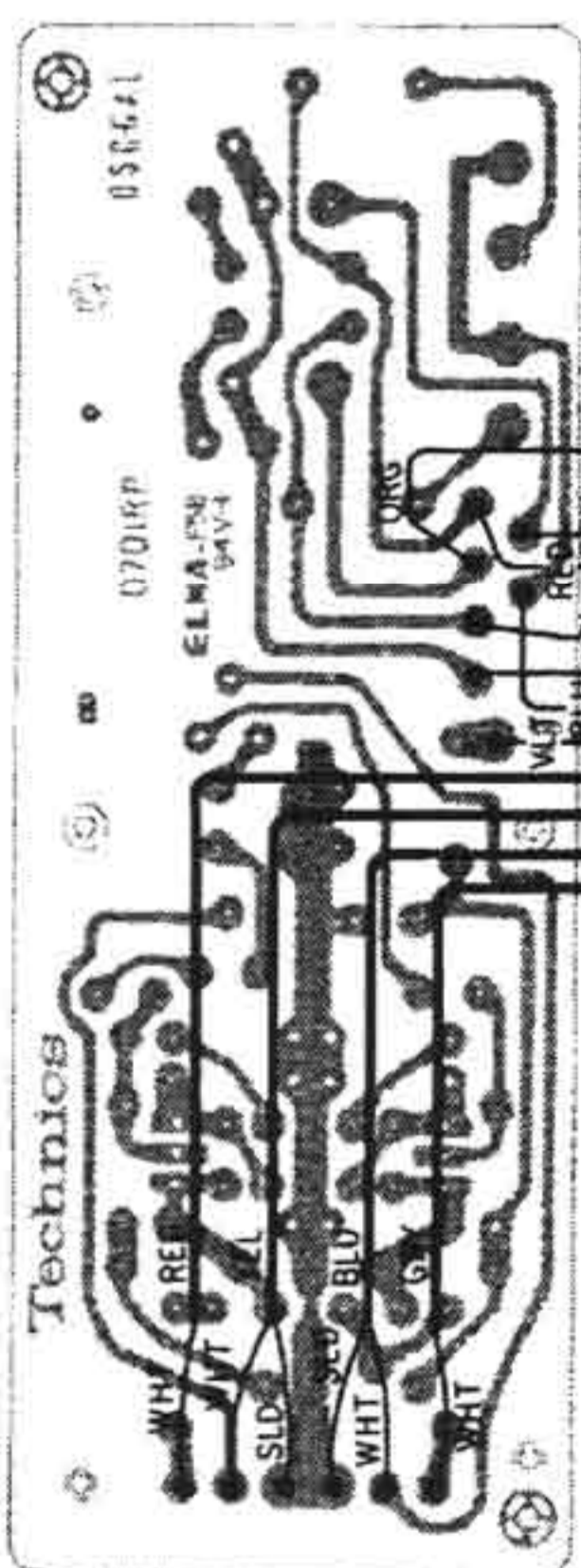


NOTE:
 BLKBlack
 BLUBlue
 BRNBrown
 GRYGray
 GRNGreen
 L. BLU.....Light Blue
 NILNo Color Mark

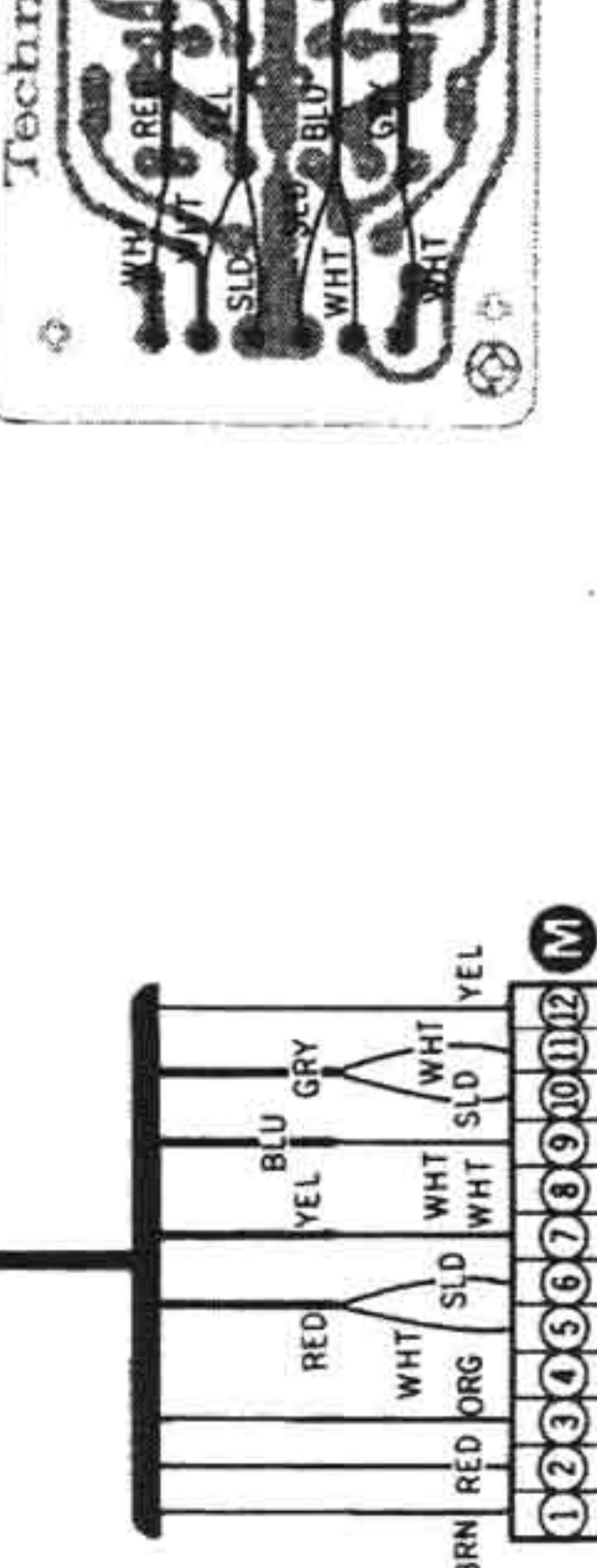
ORGOrange
 PNKPink
 REDRed
 SLDShield Wire
 VLTViolet
 WHTWhite
 YELYellow



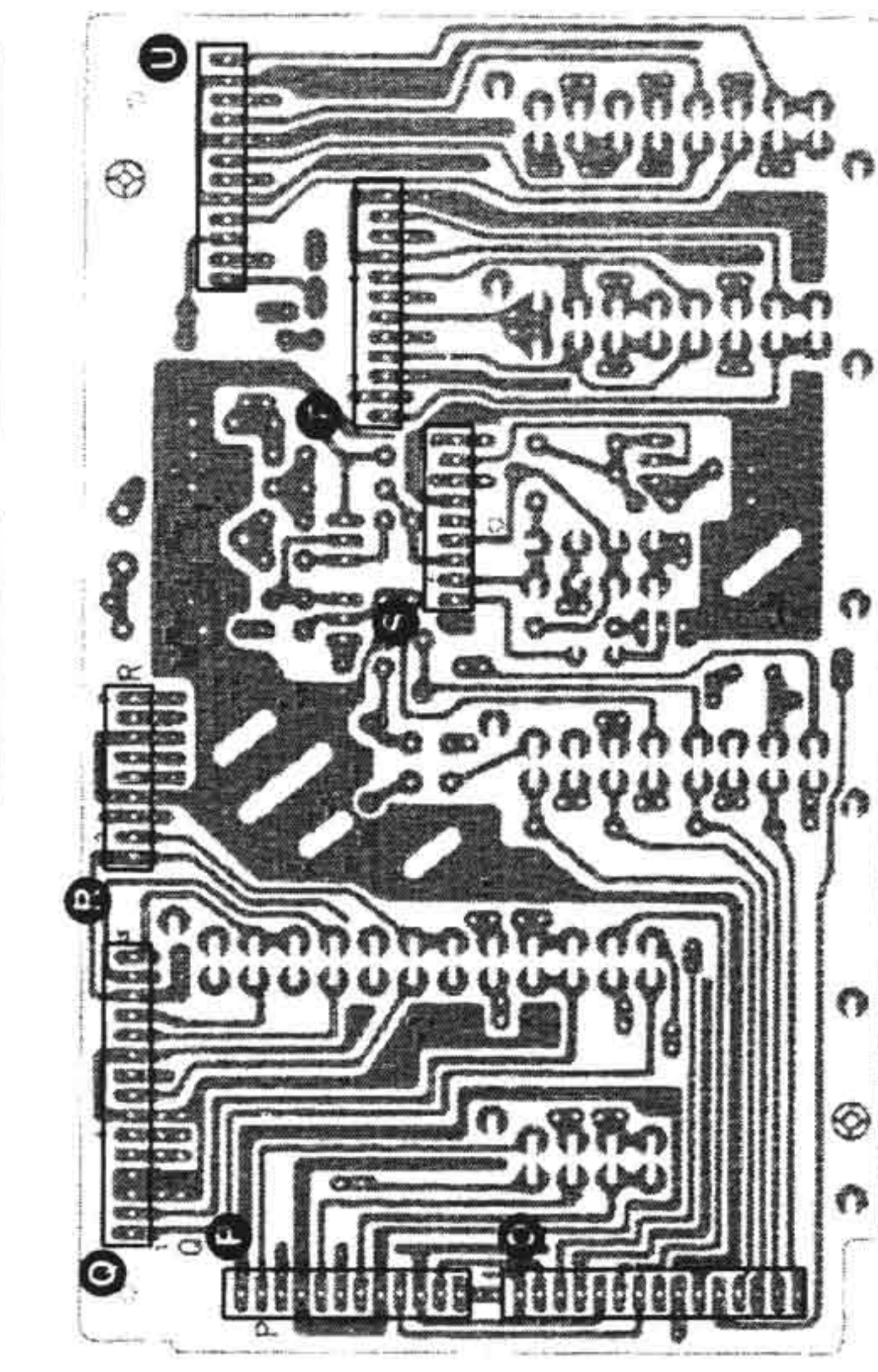
CAL CIRCUIT BOARD



JACK CIRCUIT BOARD



LEVER SWITCHES CIRCUIT BOARD



U

12	11	10	9	8	7	6	5	4	3	2	1
BLU	BLK	GRY	YEL	RED	WHT	SLD	ORG	WHT	WHT	WHT	RED

S

1	2	3	4	5	6	7	8	9
RED	ORG	BLU	GRY	VLT	WHT	BRN		

R

1	2	3	4	5	6	7	8	9
RED	YEL	BLU	GRY	BLK	WHT	SLD	WHT	WHT

C

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
RED	WHT	SLD	WHT	SLD	WHT	SLD	WHT	SLD	WHT	SLD	WHT	SLD	WHT	SLD

O

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BRN	RED	YEL	BLU	GRY	WHT	SLD	WHT	SLD	WHT	SLD	WHT	SLD	WHT	SLD

P

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BRN	RED	YEL	BLU	GRY	WHT	SLD	WHT	SLD	WHT	SLD	WHT	SLD	WHT	SLD

N

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
WHT	BLU	YEL	BLU	GRY	YEL	RED	BLK	RED	WHT	SLD	WHT	SLD	WHT	SLD

M

1	2	3	4	5	6	7	8	9	10	11	12
BRN	RED	ORG	SLD	WHT	SLD	WHT	SLD	YEL	BLU	GRY	WHT

T

1	2	3	4	5	6	7	8	9	10	11	12
WHT	SLD	WHT	SLD	WHT	SLD	WHT	SLD	WHT	SLD	WHT	SLD