

# Service Manual

Portable Stereo Component System

**RX-C52L**  
(Silver)



This is the Service Manual for the following areas.

**Z**...For all European areas except United Kingdom & Germany.

**E**...For United Kingdom.

## ■ SPECIFICATIONS

### General:

Power Requirement: AC; 220V 50Hz  
Battery; 12V (Eight "D" Size Flashlight Batteries)  
(Panasonic UM-1 or equivalent)  
Car battery; with optional car adaptor RP-952

Power Consumption: 27W (AC only)  
Power Output: 15W (7.5W×2)...(max.)

Speaker: Woofer; 10cm (4") PM Dynamic Speaker (3Ω)  
Tweeter; 3cm (1<sup>1</sup>/<sub>4</sub>") Ceramic Speaker (400Ω)

Input: MIC; sensitivity 0.25mV/applicable microphone impedance 200~600Ω  
PHONO; sensitivity 5mV/47kΩ over  
LINE IN; sensitivity 200mV/47kΩ over  
DC IN; 13.2V

Output: LINE OUT; sensitivity 360mV/4.7kΩ under  
EXT SP; 3~8Ω  
HEADPHONES; 32Ω

Dimensions: 549mm(W)×153mm(H)×152mm(D)  
(21<sup>5</sup>/<sub>8</sub>×6×6")  
Main Unit  
321mm(W)×153mm(H)×152mm(D)  
(12<sup>5</sup>/<sub>8</sub>×6×6")  
Speaker Box  
120mm(W)×153mm(H)×134mm(D)  
(4<sup>3</sup>/<sub>4</sub>×6×5<sup>5</sup>/<sub>16</sub>")

Weight: 5.2kg (11 lb. 7.4 oz.) without batteries

### Radio Section:

Radio Frequency Range: FM; 87.5~108MHz  
LW; 150~285kHz (2000~1053m)  
MW; 520~1610kHz (577~186m)  
SW; 5.9~18MHz (50.8~16.7m)

Intermediate Frequency: FM; 10.7MHz  
AM; 455kHz (470kHz [E])

Sensitivity: FM; 2.6μV (-3dB Limit sens)  
LW; 74μV/m/50mW output  
MW; 40μV/m/50mW output  
SW; 2.7μV/50mW output

### Tape Deck Section:

Frequency Response: 40~12,000Hz (with normal tape)  
40~16,000Hz (with Metal tape)

Recording System: AC bias, AC erase

Tape Speed: 4.8cm/s, (1<sup>7</sup>/<sub>8</sub> ips)

Program Timer: 1 hour with C-60 cassette tape

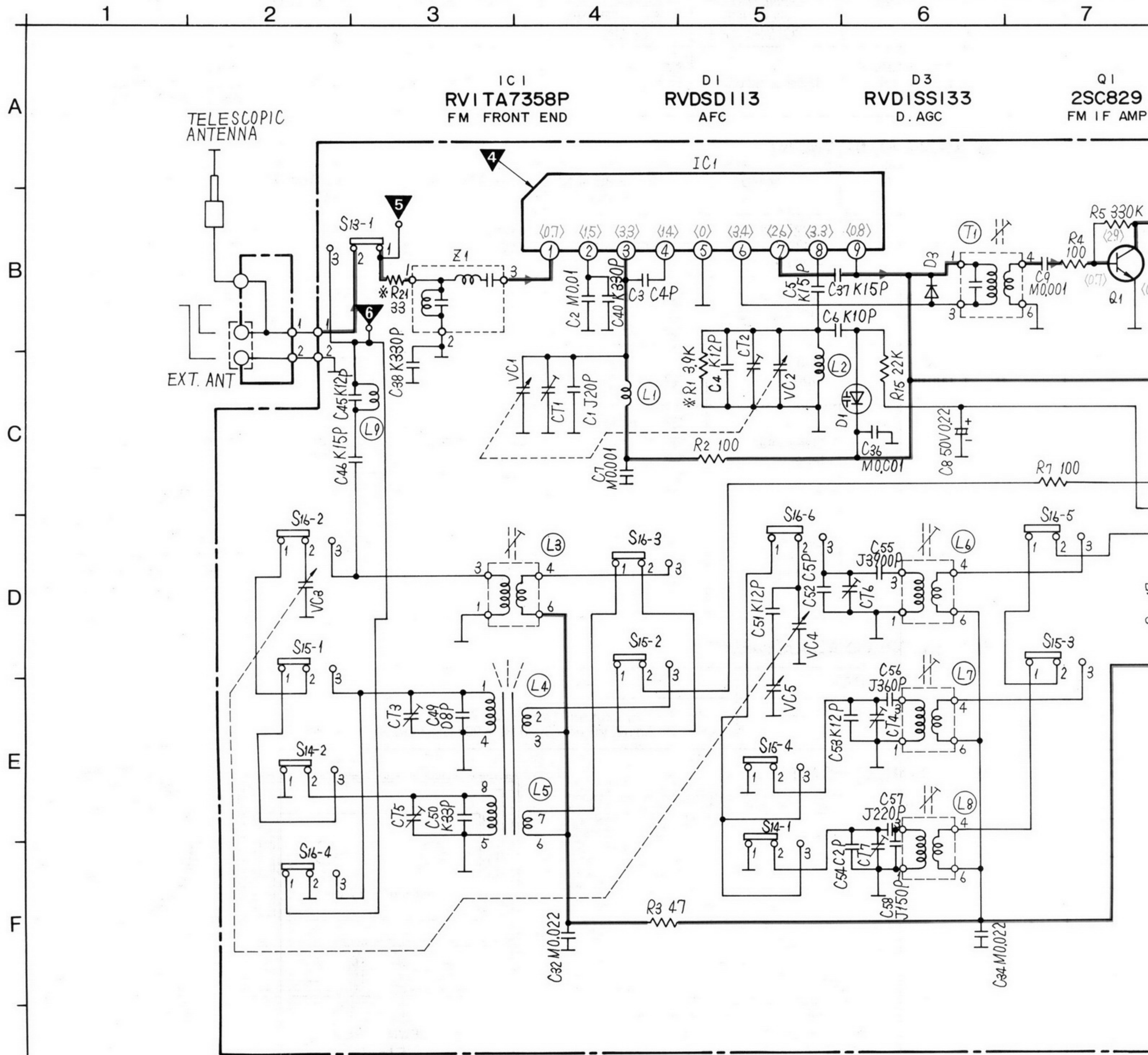
Track System: 4-track 2 channel stereo recording and playback

Specifications are subject to change without notice.

# Panasonic

Matsushita Electric Trading Co., Ltd.  
P.O. Box 288, Central Osaka Japan

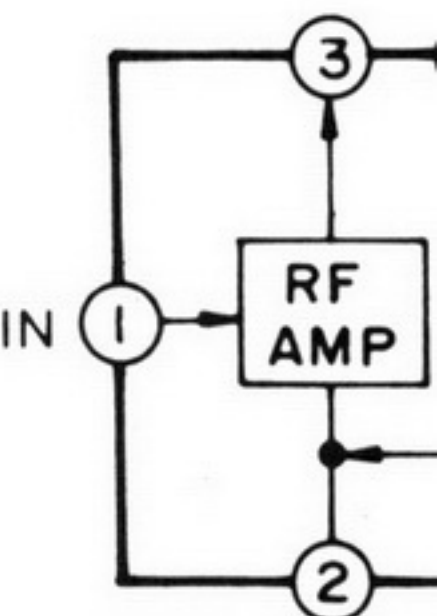
## SCHEMATIC DIAGRAM (Tuner)

**Notes:**

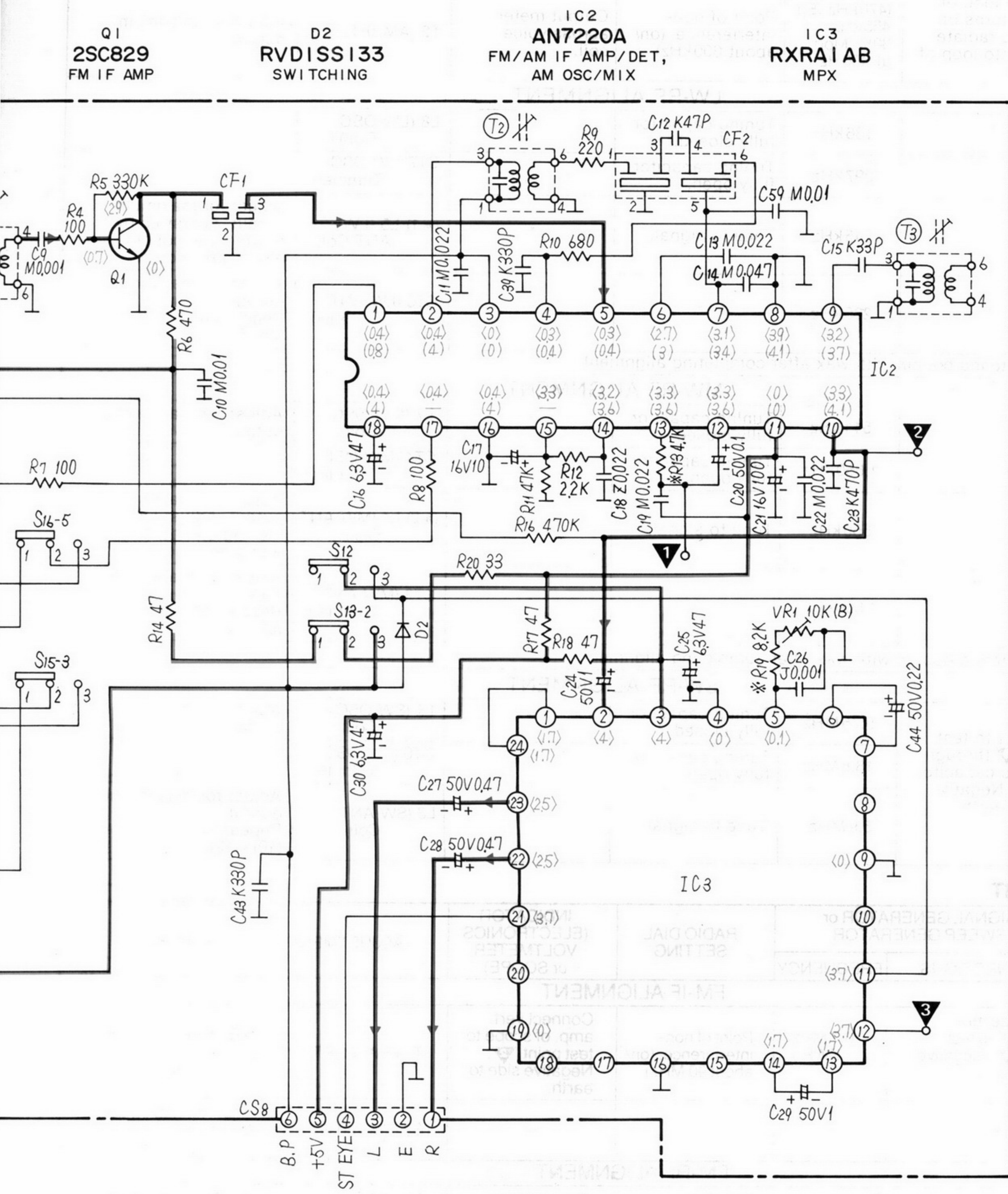
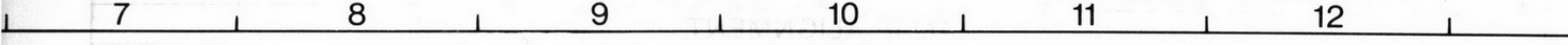
1. S12: FM mode switch in "STEREO" position.  
(1...STEREO, 3...MONO)
2. S13~S16: Band switch in "FM" position.  
(S13-1, S13-2...FM, S14-1, S14-2...LW,  
S15-1~S15-4...MW, S16-1~S16-4...SW)
3. VR1: VCO adjustment VR.
4. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.  
< >...FM, ( )...MW
5. For resistors, using printed types except those with \* mark.

— + (⊕) Voltage Line.  
→ Radio (FM) Signal Line.

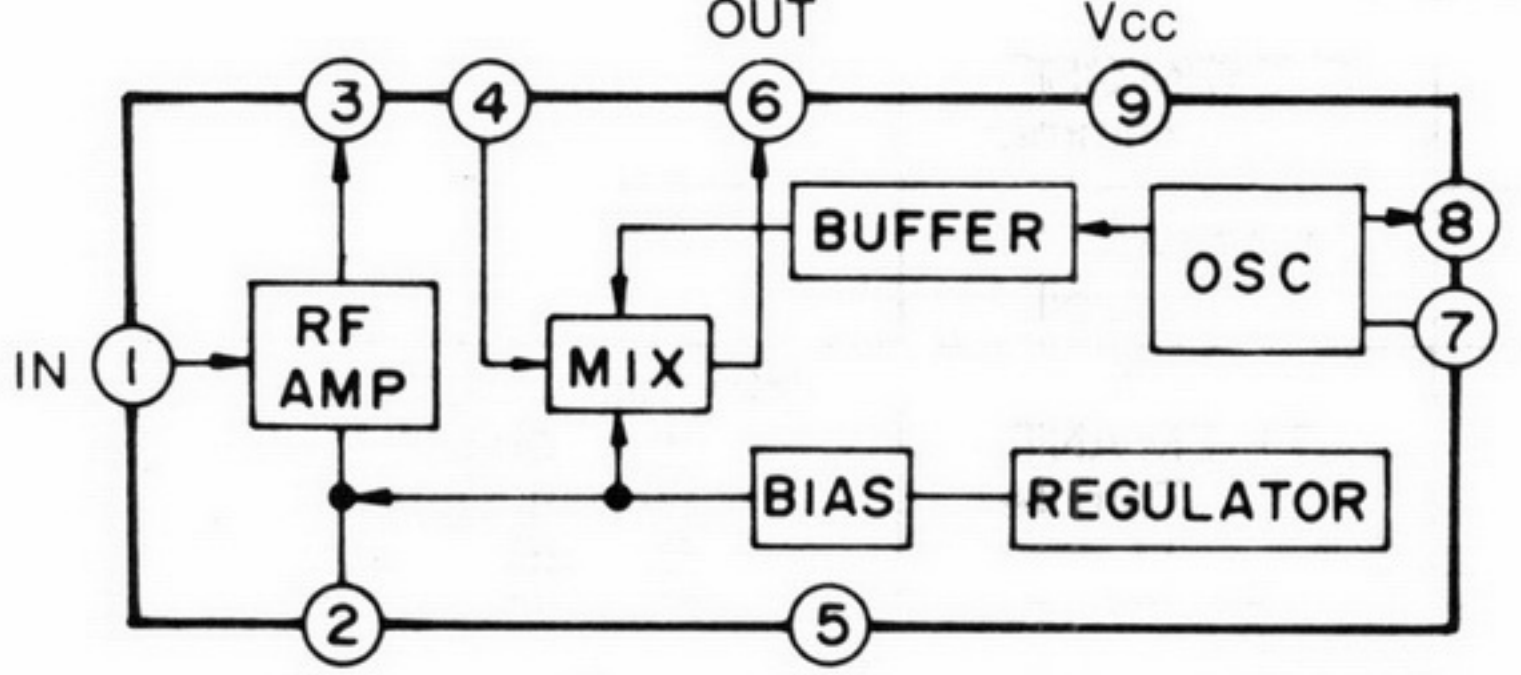
IC1 RV1TA73



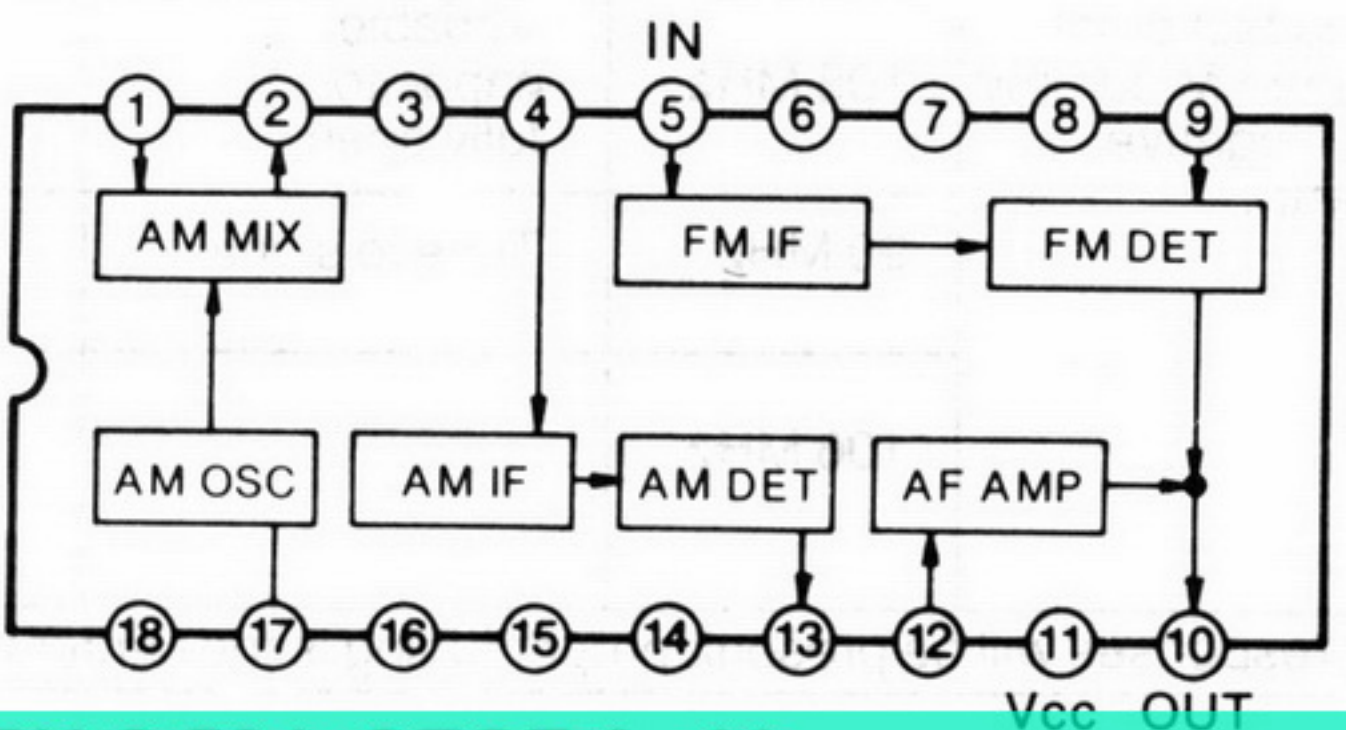
# M (Tuner) MODEL RX-C52L



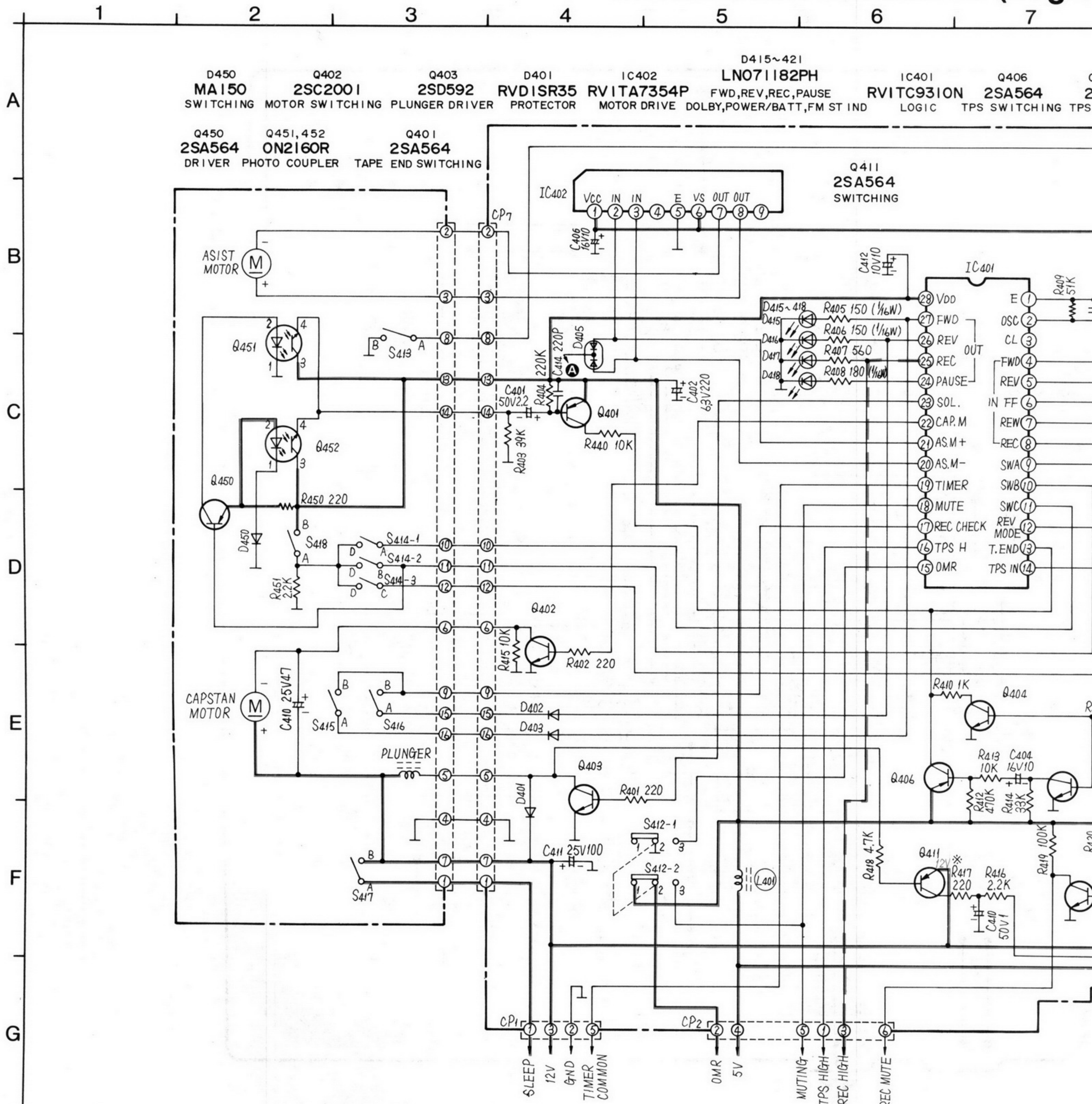
IC1 RVITA7358P



IC2 AN7220A



## SCHEMATIC DIAGRAM (Logic)

**Notes:**

1. S401: Stop switch.
2. S402: Pause switch.
3. S403: Record Muting switch.
4. S404: Forward switch.
5. S405: Reverse switch.
6. S406: Fast Forward/TPS switch.
7. S407: TPS/Rewind switch.
8. S408: Record switch.

## 9. S409~S411: Tape direction switch.

(S409...repeat two-side playback or two-side recording, S410...two-side playback or recording, S411...one-side playback or recording)

## 10. S412-1, S412-2: One program repeat switch in "OFF" position.

(1...OFF, 3...ON)

## 11. S413: Eject switch.

## 12. S414-1~S414-3: Rotary switch.

## 13. S415, S416: Record Check switch.

## 14. S417: Sleep

## 15. S418: Fast

## 16. VR181, 28

## VR182, 28

## VR183, 28

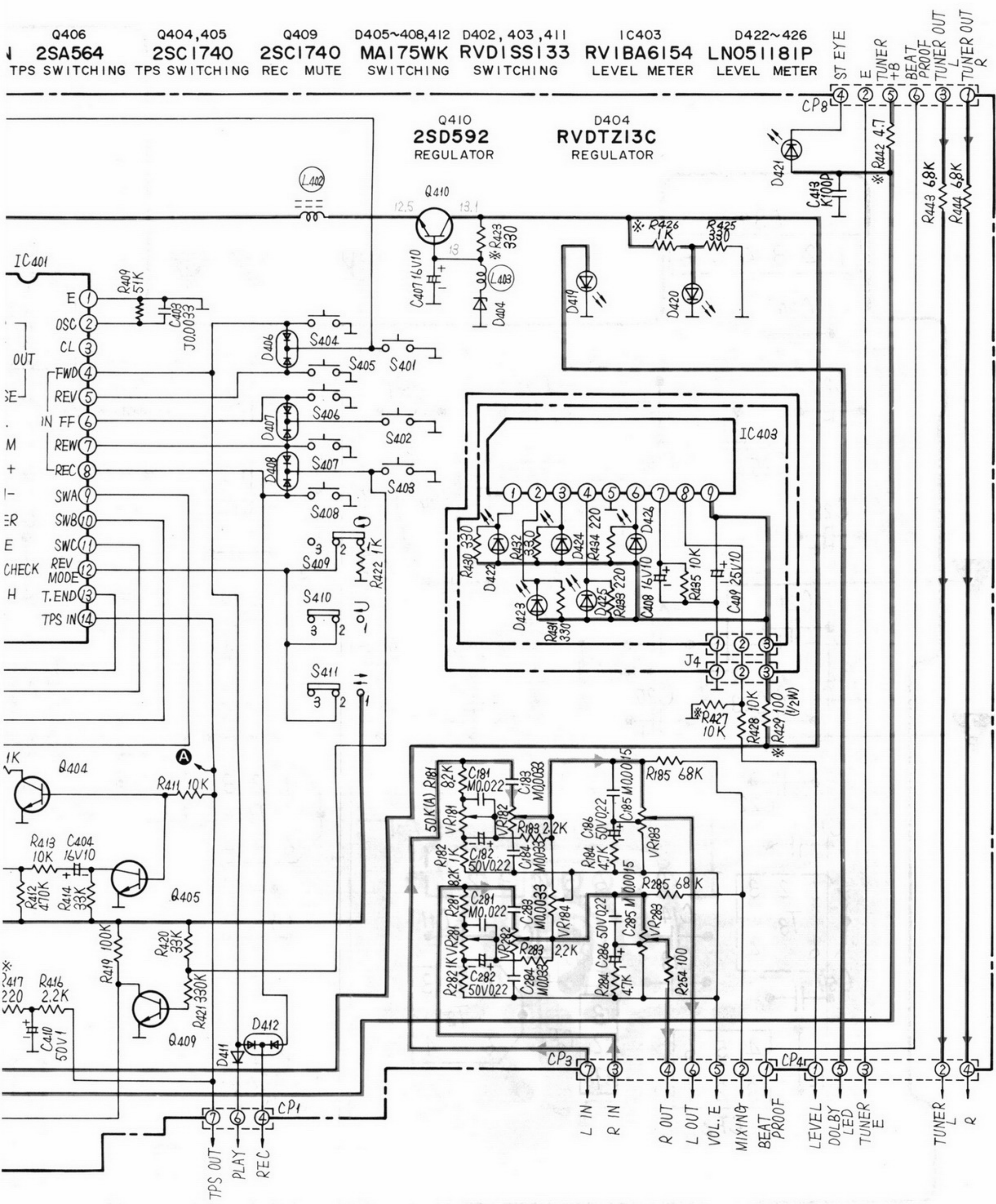
## VR184: Ba

## 17. DC voltage

## negative te

## 18. For resistor

M (Logic) MODEL RX-C52L



14. S417: Sleep switch.

15. S418: Fast Forward/Rewind switch.

16. VR181, 281: Bass control VR.

VR182, 282: Treble control VR.

VR183, 283: Volume control VR.

VR184: Balance control VR

17. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.

18. For resistors using printed types except those with \* mark.

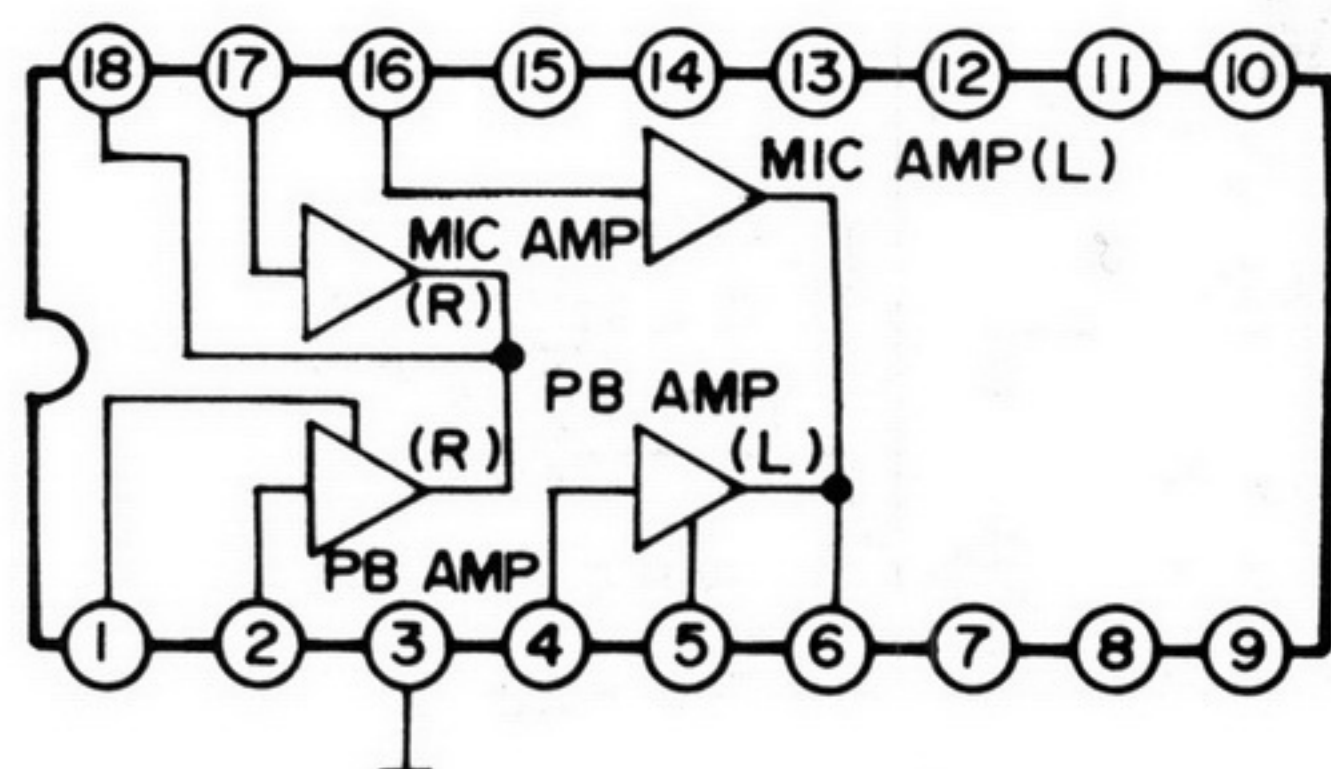
- + (B) Voltage Line

Tape (PLAY BACK) Signal Line

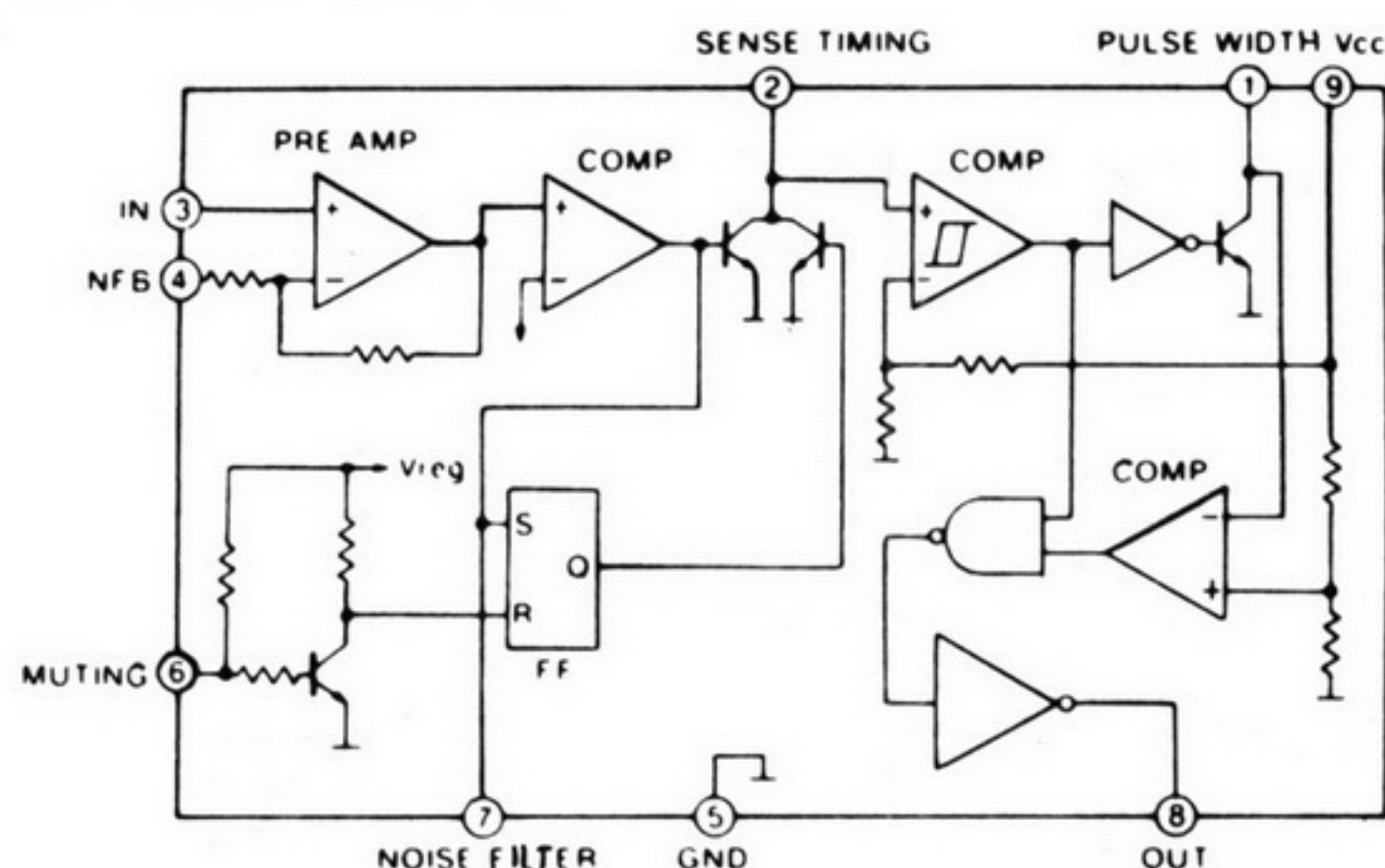
Radio (FM) Signal Line

Recording control signal line

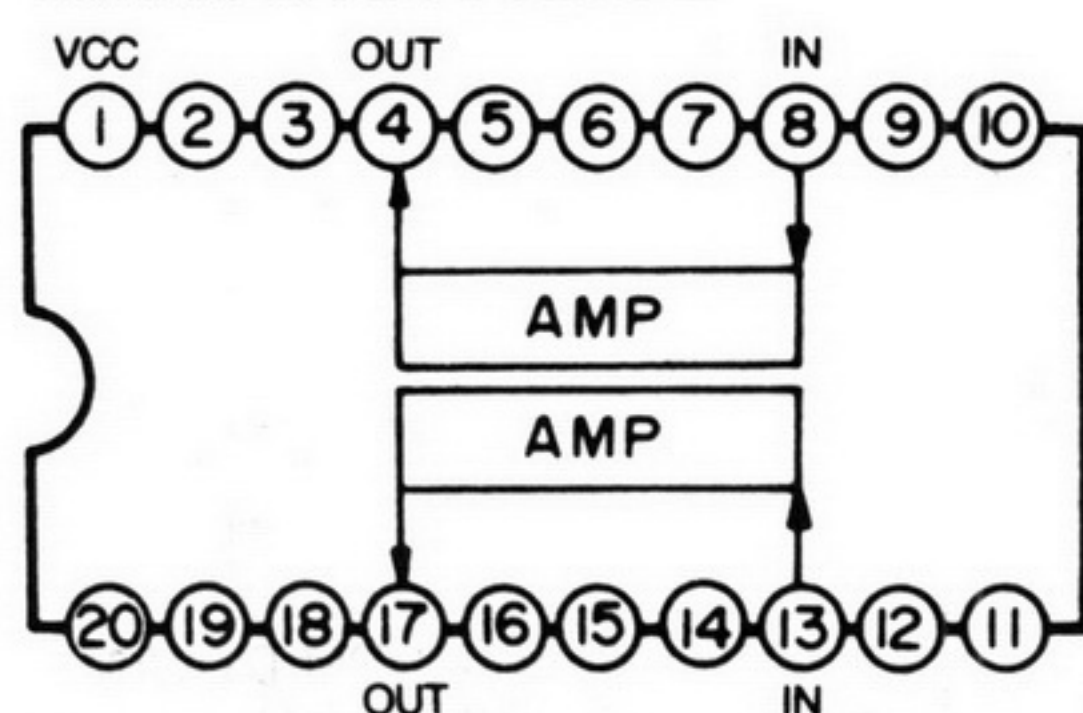
## IC101 AN6205



## IC103 RVIBA338

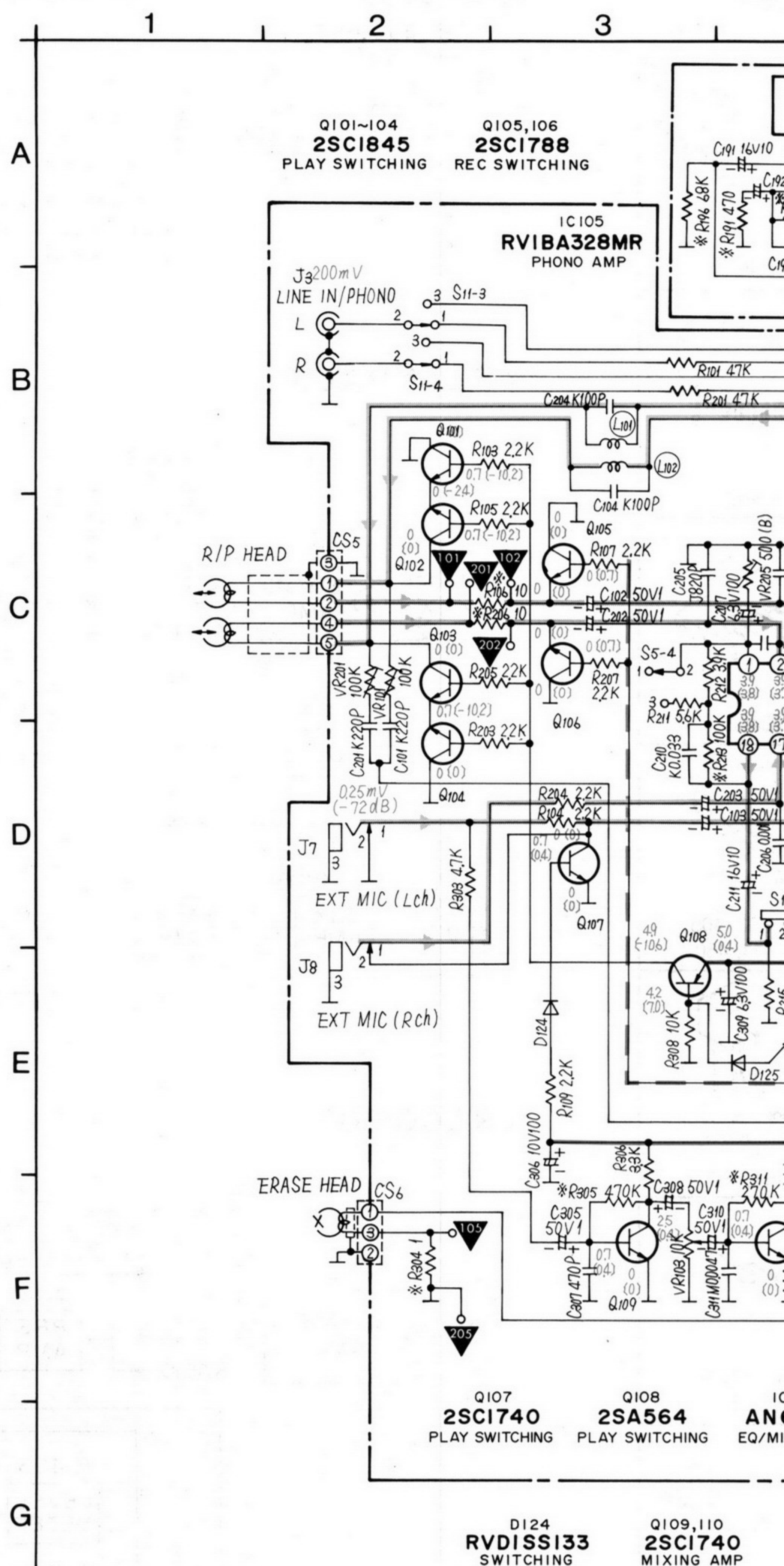
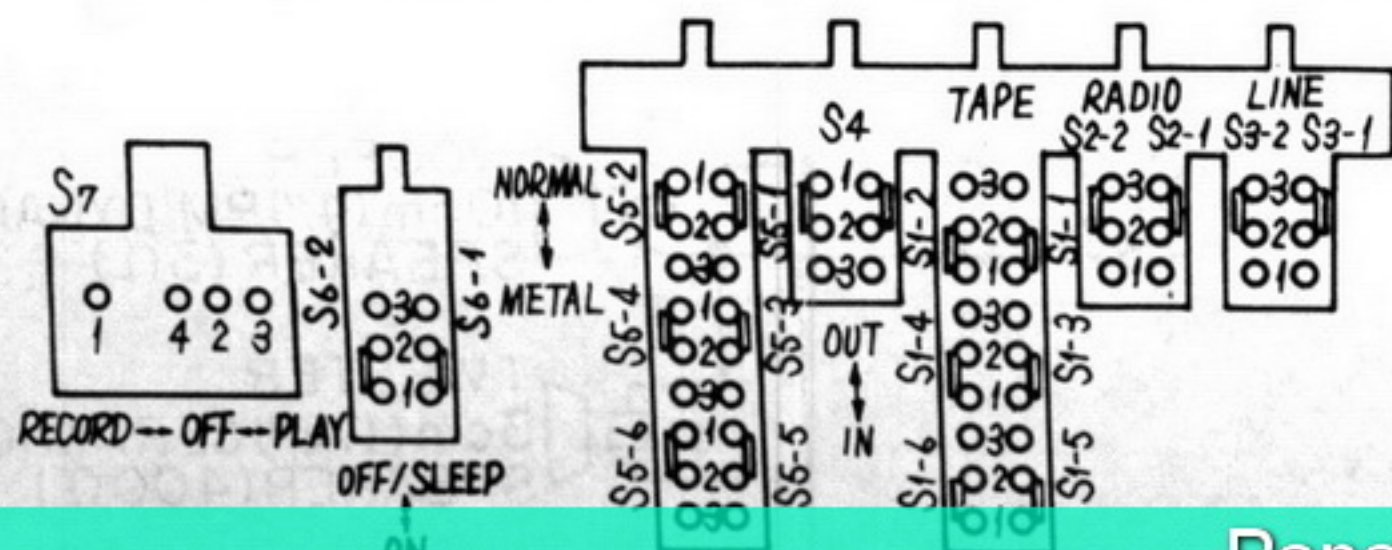


## IC104 RVILA4505R



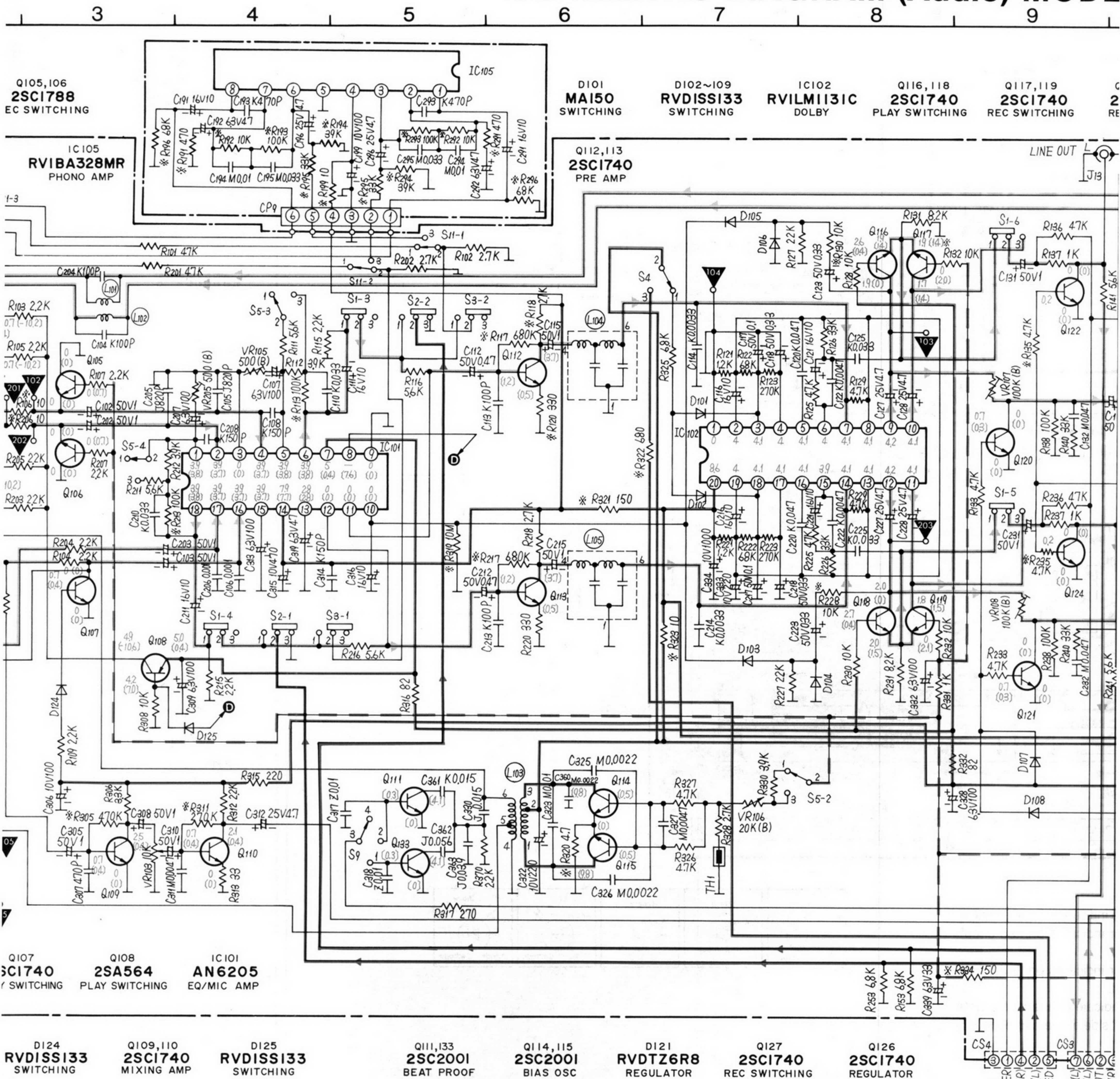
## Notes:

1. S1~S3: Function switch in "TAPE" position.  
(S1-1~S1-6...TAPE, S2-1, S2-2...RADIO,  
S3-1, S3-2...LINE/PHONO)
2. S4: Dolby noise reduction switch in "OUT" position.  
(1...OUT, 3...IN)
3. S5-1~S5-6: Tape switch in "NORMAL" position.  
(1...NORMAL, 3...METAL)
4. S6-1, S6-2: Operation switch in "ON" position.  
(1...ON, 3...OFF/SLEEP)
5. S7: Timer stand by switch in "RECORD" position.  
(1...RECORD, 2...OFF, 3...PLAY)
6. S8: AC/DC selector switch in "AC" position.
7. S9: Beat proof switch.
8. S11-1~S11-4: Input switch in "LINE IN" position.  
(1...LINE IN, 3...PHONO)
9. VR101, 201: Bias current adjustment VR.  
VR103: Mixing level control VR.  
VR105, 205: Playback level adjustment VR.  
VR106: Erase current adjustment VR.  
VR107, 108: Overall gain adjustment VR.
10. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery. [ ]...Record
11. Battery current: No signal ..... 177 mA  
Maximum output (radio) ..... 1.25A  
Maximum output (tape) ..... 1.27A
12. For resistors, using printed types except those with \* mark.



13. Important safety notice  
Components identified by  $\Delta$  mark have special characteristics important for safety.  
When replacing any of these components, use only manufacturer's specified parts.

## SCHEMATIC DIAGRAM (Audio) MODE



mark have  
nt for

turer's

-  + B Voltage Line  
 Tape (PLAY BACK) Signal Line  
 Radio (FM) Signal Line
-  Recording control signal line  
 Tape (RECORD) signal line

## DEL RX-C52L

10

11

12

13

14

15

Q120,121  
**2SCI740**  
REC MUTING

Q122,124  
**2SCI740**  
TPS MUTING

Q123,125  
**2SCI740**  
REC AMP

Q128,129,136  
**2SCI740**  
TPS SWITCHING

Q130  
**2SC1740**  
OMR SWITCHING

IC103  
RV1BA338  
TPS AMP

IC104  
**RVILA4505R**  
POWER AMP

