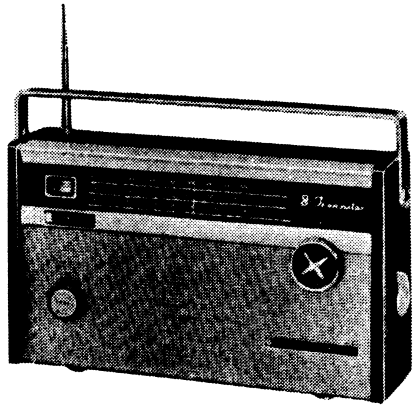
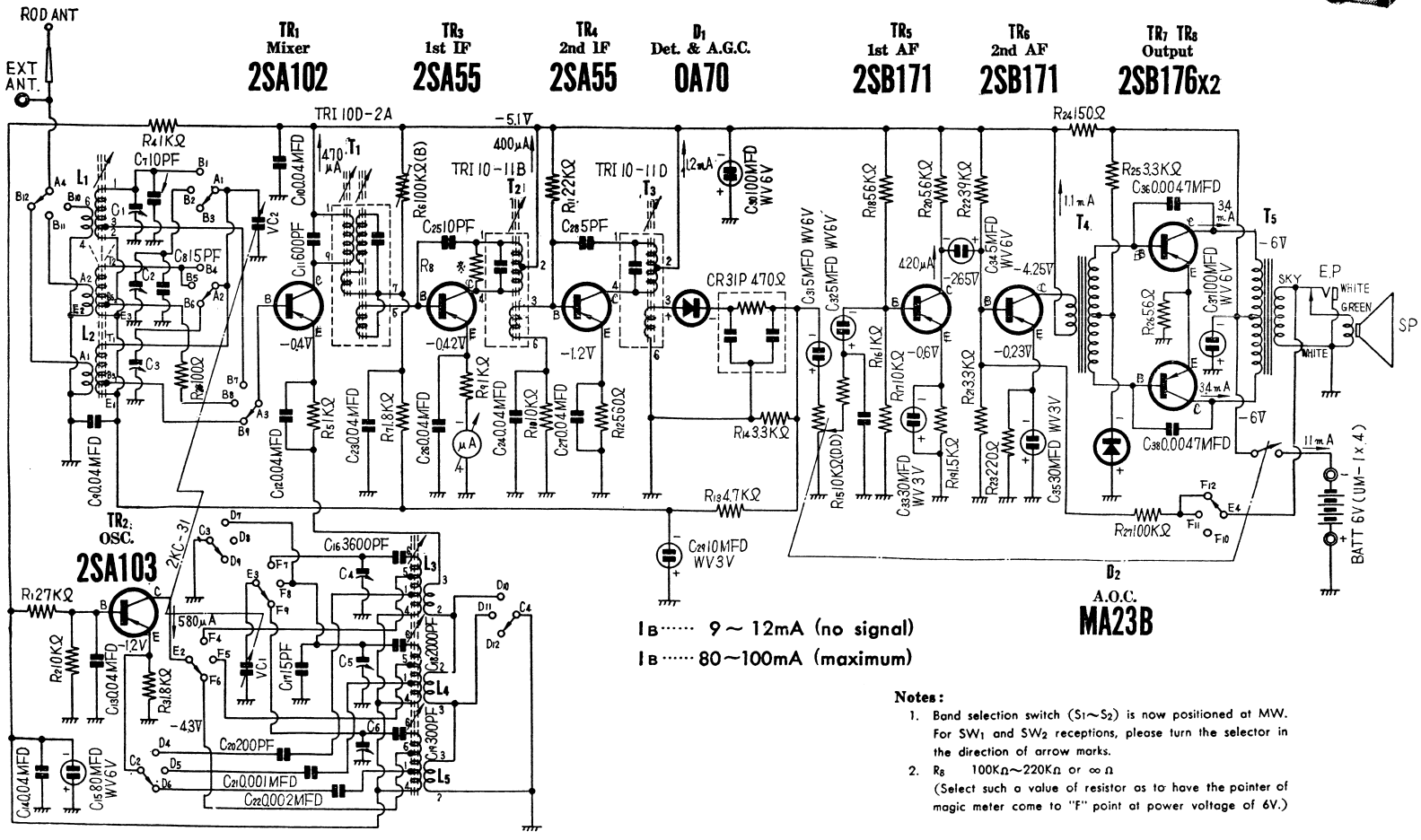


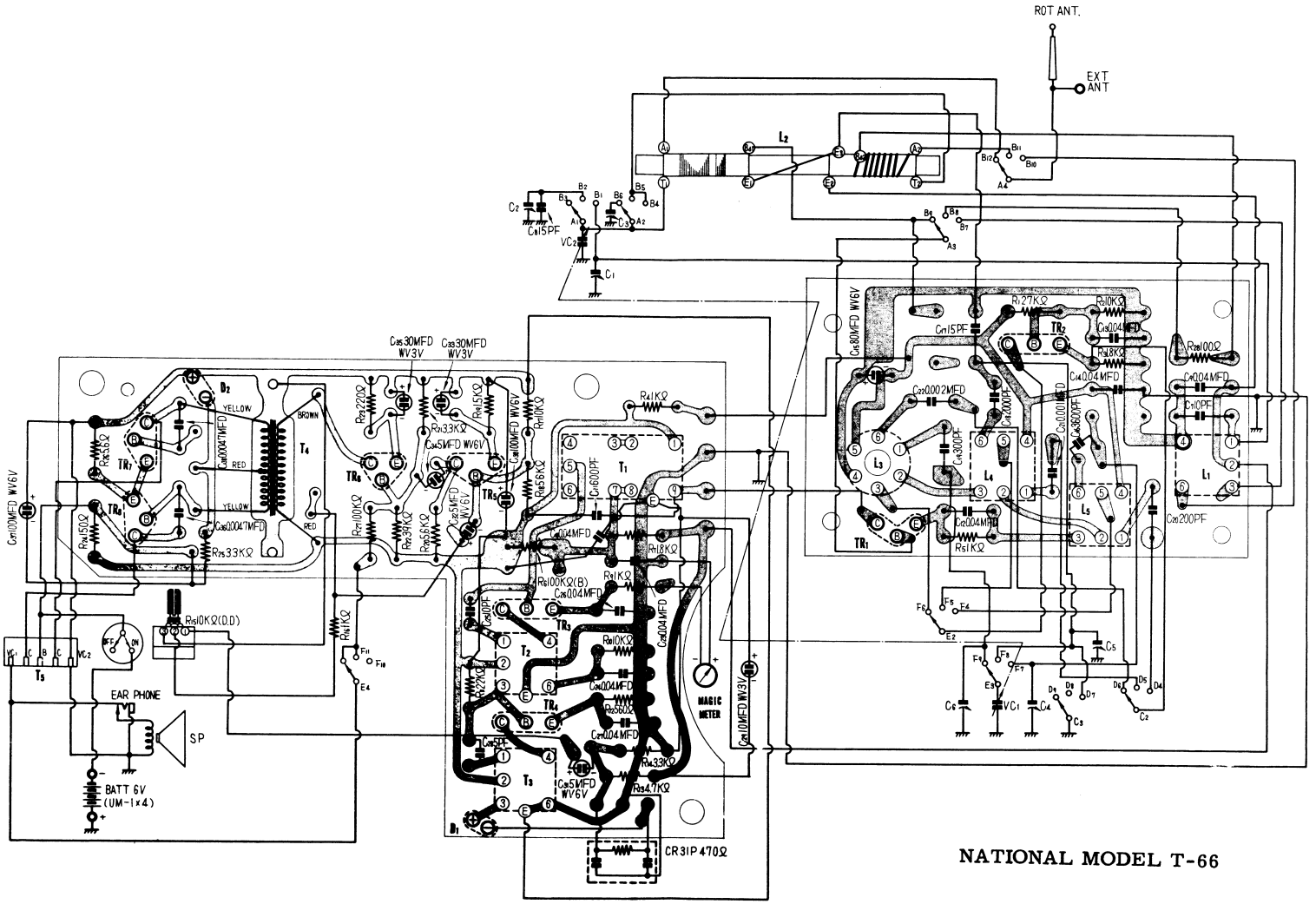
# NATIONAL MODEL T-66



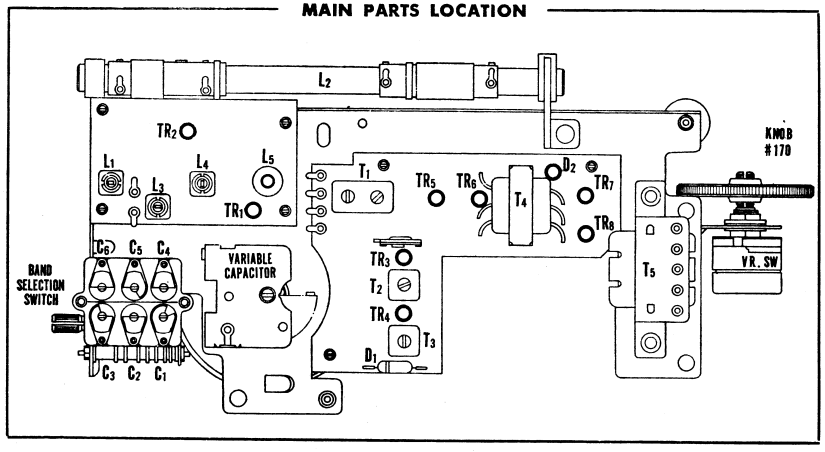

**Notes:**

1. Band selection switch ($S_1$～$S_2$) is now positioned at MW. For $SW_1$ and $SW_2$ receptions, please turn the selector in the direction of arrow marks.
2. $R_8$ 100KΩ～220KΩ or ∞ Ω
   (Select such a value of resistor as to have the pointer of magic meter come to "F" point at power voltage of 6V.)

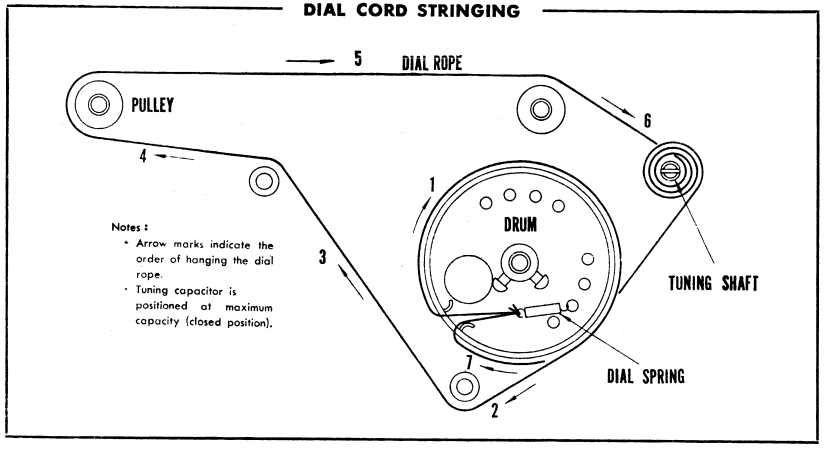
# PRINTED CIRCUIT BOARD


ROT ANT.
EXT ANT
L2
C2
C15PF
VC2
C1
C3
Cas30MFD WV3V
Cas30MFD WV3V
Cas5MFD WV6V
Cas100MFD WV6V
Cas5MFD WV6V
Cas0047MFD
Cas0004MFD
Cas004MFD
Cas004MFD
Cas004MFD
Cas004MFD
Cas004MFD
Cas004MFD
Cas5MFD WV6V
Cas10MFD WV3V
Cas80MFD WV6V
Cas0002MFD
Cas0001MFD
Cas10PF
Cas200PF
Cas10PF
Cas10MFD WV6V
Cas10MFD WV3V
Cas5PF
Cas10PF
Cas560PF
Cas300PF
Cas200PF
Cas360PF
Cas600PF
Cas5PF
Ras220Ω
Ras33KΩ
Ras15KΩ
Ras10KΩ
Ras56KΩ
Ras100Ω
Ras150Ω
Ras33KΩ
Ras100KΩ
Ras39KΩ
Ras56KΩ
Ras1KΩ
Ras10KΩ(D.D)
Ras1KΩ
Ras100KΩ(B)
Ras10KΩ
Ras560Ω
Ras33KΩ
Ras4.7KΩ
Ras41KΩ
Ras18KΩ
Ras27KΩ
Ras10KΩ
Ras18KΩ
Ras100Ω
Ras1KΩ
Ras27KΩ
Ras1KΩ
Ras1KΩ
Ras1

## MAIN PARTS LOCATION




## DIAL CORD STRINGING




## ALIGNMENT PROCEDURE

OUTPUT METER ..... Connect Output Meter across speaker voice coil.

OUTPUT LEVEL ..... Attenuate Test Oscillator output always to maintain 0.5 volt on Output Meter to prevent overloading of the receiver.

TEST OSCILLATOR ..... Modulate Test Oscillator at 1000c/s and connect the earth lead wire of Test Oscillator output to Radiation Loop Coil.

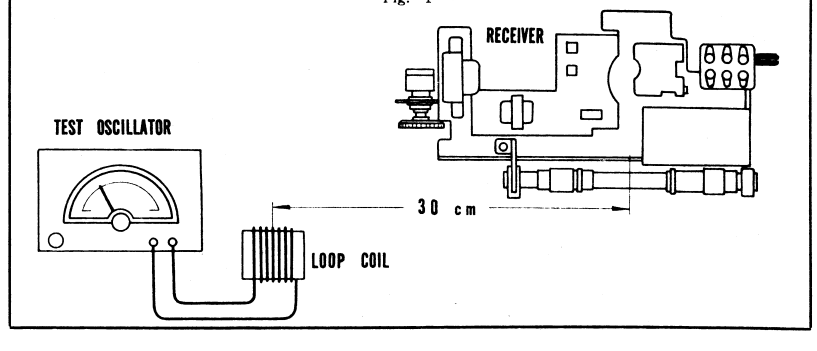
RADIO RECEIVER..... Place the radio receiver 20cm away from Radiation Loop Coil. Set volume control to maximum.

| Step | Band Switch Position | Test Oscillator | | Radio Receiver | |
|---|---|---|---|---|---|
| | | Connection to radio receiver | Dial setting | Dial setting | Adjusting to maximum output |
| 1 | MW | Use radiation loop coil (See Fig. 1) | 455 KC | Quiet point 530 KC | Top screws of IF transformers |
| 2 | | | 600 KC | 600 KC | Screw of MW OSC coil & MW ANT coil inductance |
| 3 | | | 1500 KC | 1500 KC | Screw of MW OSC trimmer<br>Screw of MW ANT trimmer |
| 4 | | | 600 KC & 1500 KC | 600 KC & 1500 KC | Repeat steps (2) and (3). |
| 5 | $SW_1$ | | 3.2 MC | 3.2 MC | Screw of $SW_1$ OSC coil & $SW_1$ ANT coil inductance |
| 6 | | | 7.0 MC | 7.0 MC | Screw of $SW_1$ OSC trimmer<br>Screw of $SW_1$ ANT trimmer |
| 7 | | | 3.2 MC & 7.0 MC | 3.2 MC & 7.0 MC | Repeat steps (5) and (6). |
| 8 | $SW_2$ | | 7 MC | 7 MC | Screw of $SW_2$ OSC coil<br>Screw of $SW_2$ ANT coil |
| 9 | | | 18 MC | 18 MC | Screw of $SW_2$ OSC trimmer<br>Screw of $SW_2$ ANT trimmer |
| 10 | | | 7 MC & 18 MC | 7 MC & 18 MC | Repeat steps (8) and (9). |
| 11 | Check if the above dial settings for SW bands are not made at image frequency. | | | | |

**Notes :** Please make all adjustments after the chassis is installed into the cabinet.

**Connection of Test Oscillator, Loop Coil and Radio Receiver.**

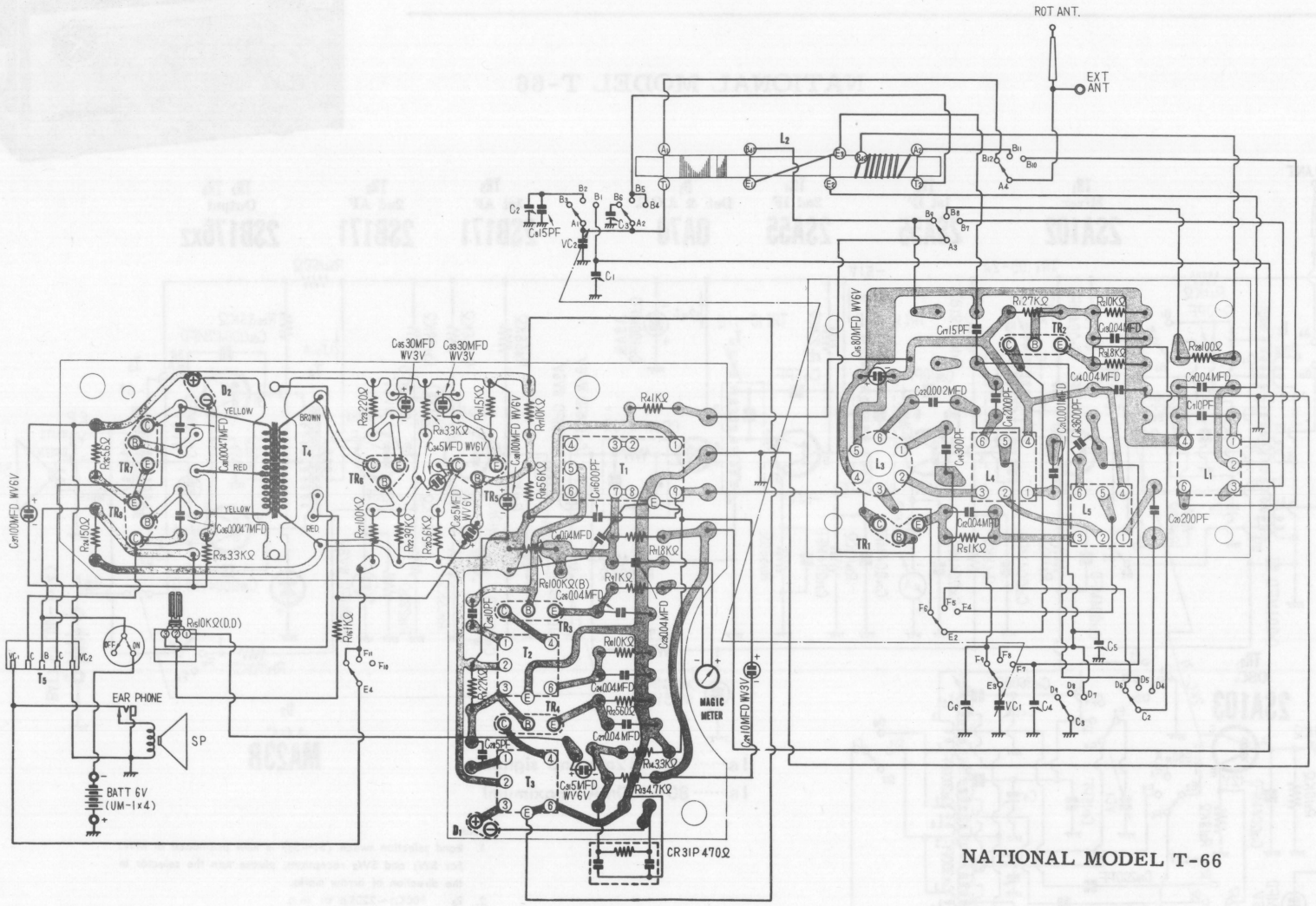
Fig. 1




## MAIN PARTS LIST

| Symbol | Parts Name or No. | | Description | |
|---|---|---|---|---|
| **Resistors :** | | | | |
| $R_1$ | Resistor, RD¼LZK | 27KΩ | Fixed, Carbon | ±10% |
| $R_2$ | Resistor, RD¼LZK | 10KΩ | Fixed, Carbon | ±10% |
| $R_3$ | Resistor, RD¼LZK | 1.8KΩ | Fixed, Carbon | ±10% |
| $R_4$ | Resistor, RD¼LZK | 1KΩ | Fixed, Carbon | ±10% |
| $R_5$ | Resistor, RD¼LZK | 1KΩ | Fixed, Carbon | ±10% |
| $R_6$ | Variable Resistor, NV-16FB 100KΩ(B) | | | |

# PRINTED CIRCUIT BOARD

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