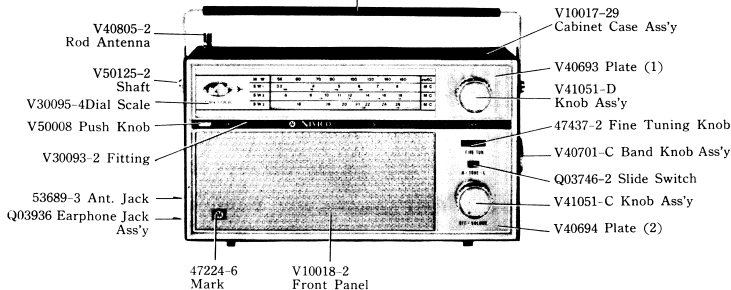




NIVICO

SERVICE NOTE

- V30166-3 Handle Base
- V30066-2 Handle (Upper)
- V30067-2 " (Lower)
- NTB-2600 Nut



MODEL 10H-407

10 TRANSISTOR 4-BAND PORTABLE RADIO

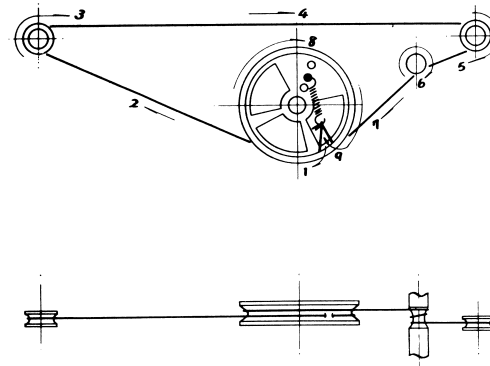
DIMENSIONS: H-6 $\frac{3}{8}$ " , D-3 $\frac{3}{8}$ " , W-11 $\frac{1}{8}$ " WEIGHT: 4.4 lbs. (with Batteries)

SPECIFICATIONS

- Frequency:** MW 540~1600 KC  
SW 1 3.2~8MC  
SW 2 8~18MC  
SW 3 18~26MC
- Intermediate Frequency:** 455KC
- Transistor:** X 1 2SA70 (OA) Local Oscillator  
X 2 2SA70 (OB) Mixer  
X 3 2SA101 (BA) Over Load AGC  
X 4, 5 2SA101 (BA) IF Amp.  
X 6 2SA101 (BA) Detector & AGC  
X 7 2SB173 (B) Audio Amp.  
X 8 2SB175 (A) Audio Amp.  
X 9, 10 2SB178 (A) Power Amp.
- Thermistor:** Th MT-170 Automatic Temperature Control
- Antenna:** Ferrite Core Antenna 10 $\phi$ ×180%  
(Used for MW & SW1)  
Built-in Rod Antenna (for use of SW2, SW3)  
External Antenna Jack (for use of SW2, SW3)  
4" P. M. Speaker
- Speaker:** 2 Steps Slide Switch for H & L  
Maximum 800mW
- Earphone:** Nivico Magnetic Type 8 $\Omega$
- Power Source:** DC 6V (JIS UM-1×4pcs. Size ASA Designation "D" Cell or Equivalent)

To fit the dial cord

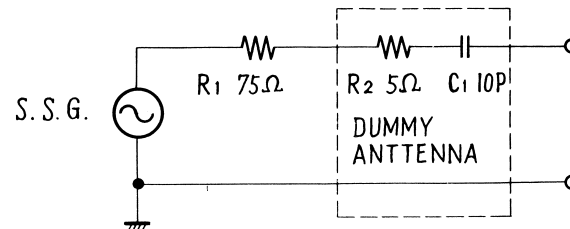
1. Fit the cord in accordance with the arrow mark while setting the V. capacitor on maximum
2. The overall length of dial cord is 0.5 $\phi$ ×860mm (3 $\frac{3}{8}$ ").



To align set

Set as follows before alignment.

- Power Supply: 6 V D C
- Fine Tuning: The Position of Neutral
- Tone Switch: Slide to "H"
- Input: Signal Generator Modulation 400%, 30%.
- Output: Connect to secondary terminal of output measuring transformer. Measure with 50mW (0.63V)
- Dummy Antenna: (for SW2, SW3)



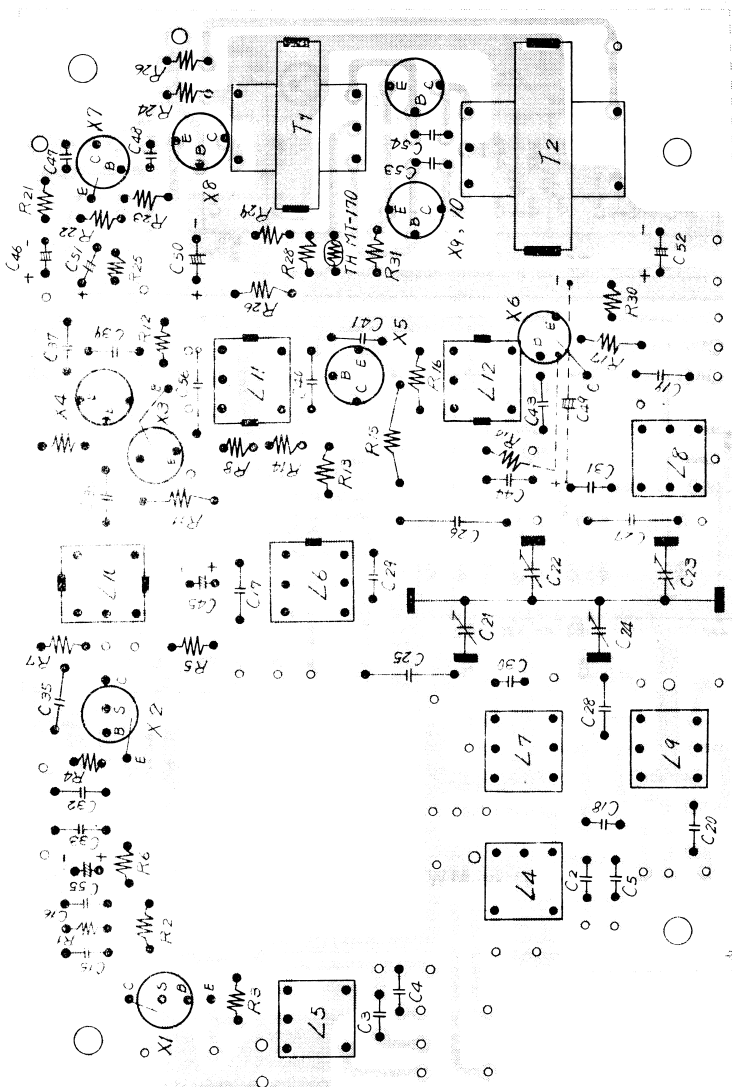


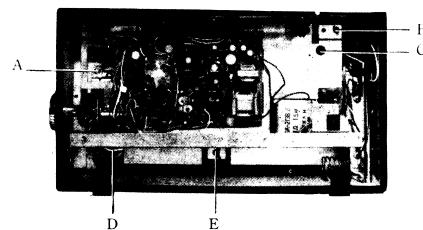
Fig. 4

Parts Arrangement on Printed Circuit Board

Step	Frequency Band	Input		Places to be aligned	Location of V. Cap.
		Frequency	It is given to		
1	IF	455KC	X3 Base through 0.01 $\mu$ F	L10, 11, 12	Minimum
2		Repeat the Step No. 1			
3	MW	525KC	Loop Antenna	L6	Maximum
4		1650KC		C21	Minimum
5		620KC		L2	620KC Signal
6		1400KC		C11	1400KC Signal
7	Repeat the Step No. 3, 4, 5, 6				
8	SW1	3.1MC	Loop Antenna	L7	Maximum
9		8.5MC		C22	Minimum
10		3.2MC		L3	3.2MC Signal
11		7.6MC		C12	7.6MC Signal
12	Repeat the Step No. 8, 9, 10, 11				
13	SW2	7.7MC	Dummy Antenna	L8	Maximum
14		19MC		C23	Minimum
15		8MC		L4	8MC Signal
16		18MC		C13	18MC Signal
17	Repeat the Step No. 13, 14, 15, 16				
18	SW3	17.6MC	Dummy Antenna	L9	Maximum
19		27MC		C24	Minimum
20		18MC		L5	18MC Signal
21		26MC		C14	26MC Signal
22	Repeat the Step No. 18, 19, 20, 21				

To remove chassis

1. Pull out the Band Knob, Tuning Knob and Volume Knob
2. Remove the back cover by unscrewing three screws.
3. Remove the battery sheet.
4. Remove five screws (A~E), chassis can now be taken off.



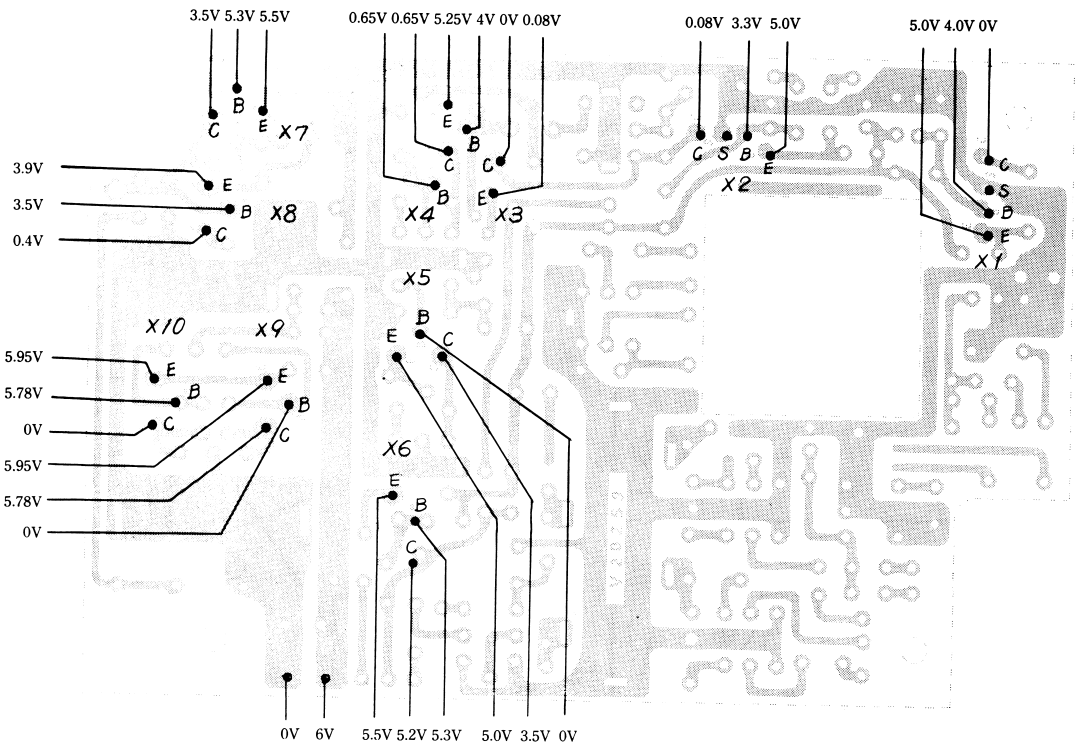


Fig. 5

Printed Circuit Voltages

NIVICO 10H-407

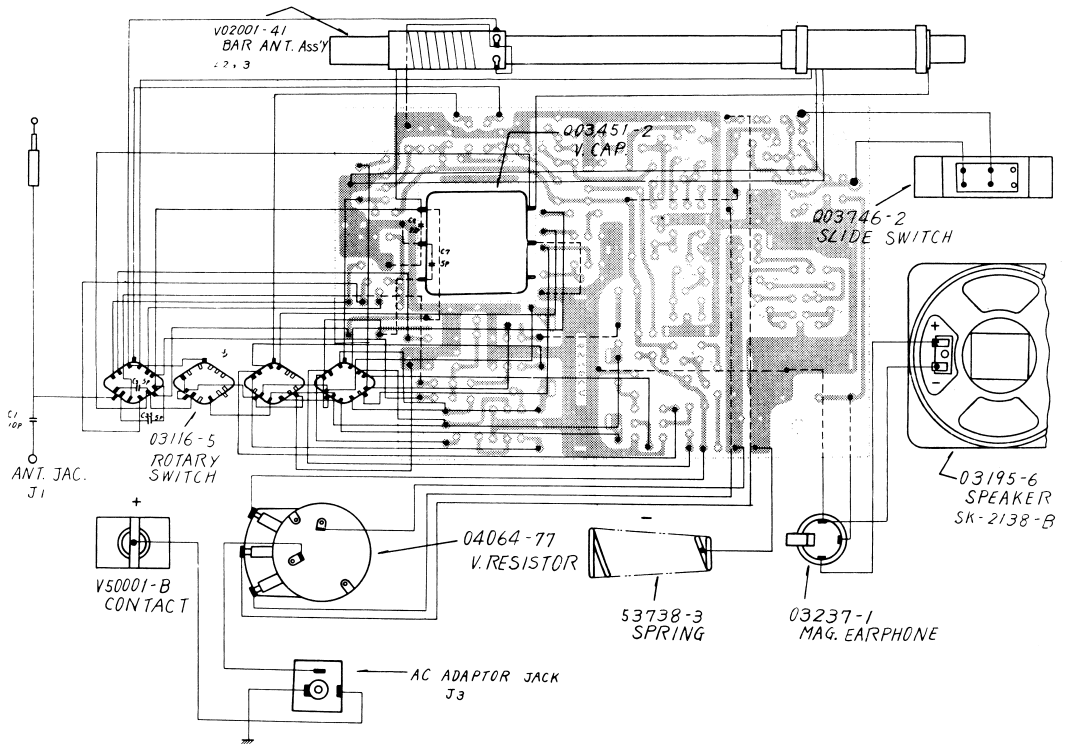
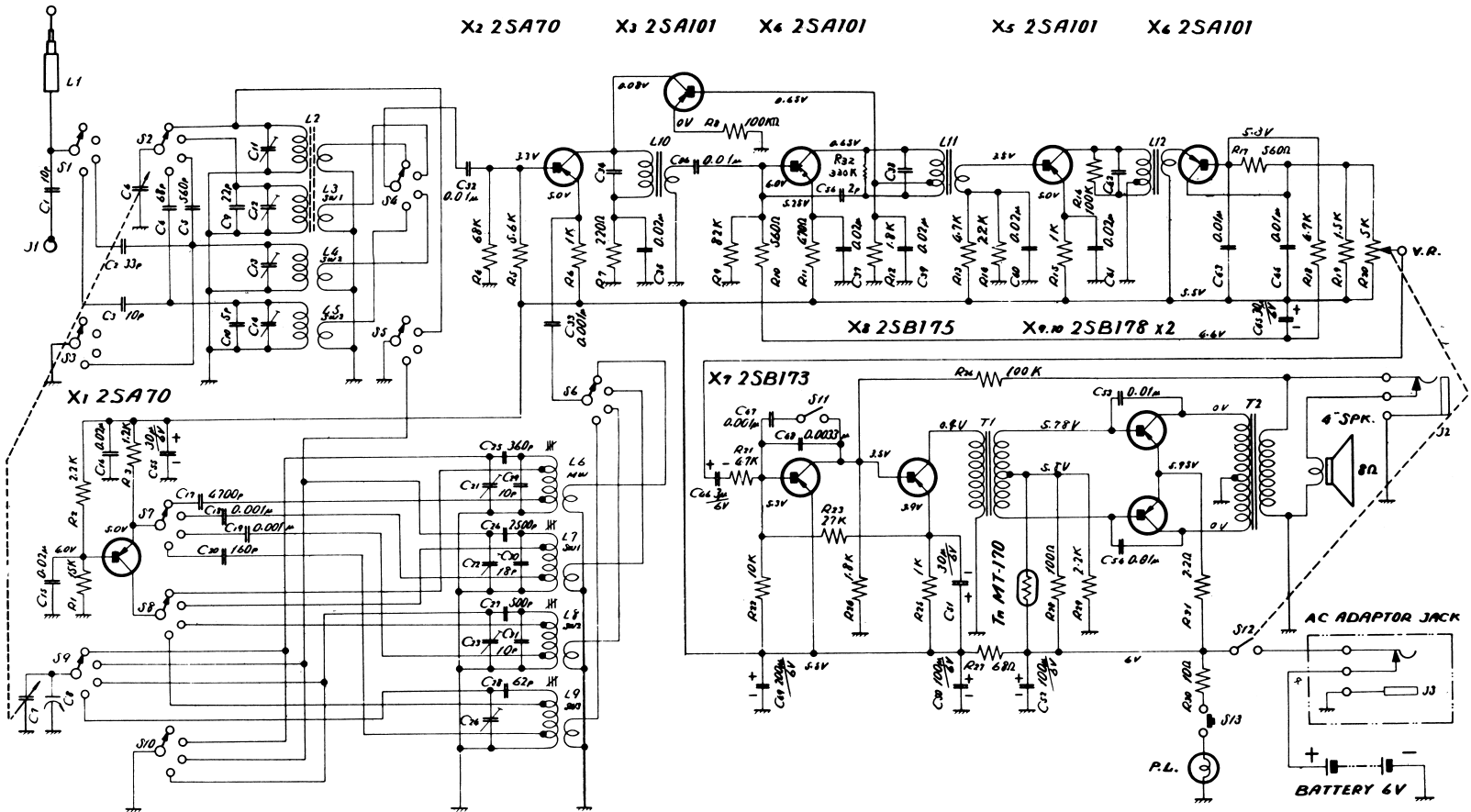


Fig. 6

Wiring Connection to the Printed Board

NIVICO MODEL 10H-407

N226



- NOTE
1. C6~7, 11~14 is ganged variable capacitor.
  2. Schematic diagram is shown with band select switch (S1~10) in MW position.
  3. Voltages are measured with no signal.
  4. Last No. C: 56, R: 32, L: 12, S: 13

Schematic Diagram Model 10H-407