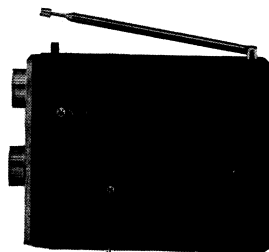


# N225 NIVICO MODEL A-730S, B

## TO REMOVE CHASSIS (Refer to Fig. 1, Fig. 2)

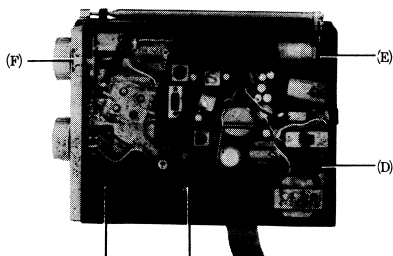
1. Remove the back cover by unscrewing the screw "A"



"A"

Fig. 1

2. Pull out the tuning knob and volume knob. Remove five screws (B ~ F), chassis can now be taken off.



(B) (C)

Fig. 2

Fit the cord in numerical order referring to Fig. 3 with variable capacitor kept on minimum capacity.

## TO FIT THE DIAL CORD (Refer to Fig. 3)

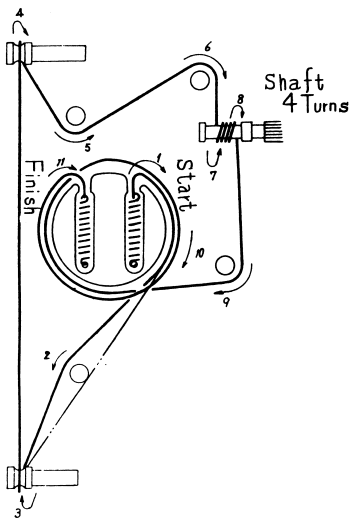


Fig. 3

## TO FIT THE DIAL BELT (Refer to Fig. 4)

Set the needle ① at the position as shown in Fig. 4 and put the part ② of the needle into the square holes of the belt, and pass it around the roller ③, ④ in numerical order (1~4), and put the square hole of the white parts upon the needle. Bend the part ② to outside each other and fix the part ②, and stretch the belt by bending the spring ⑤ in the direction of arrow mark.

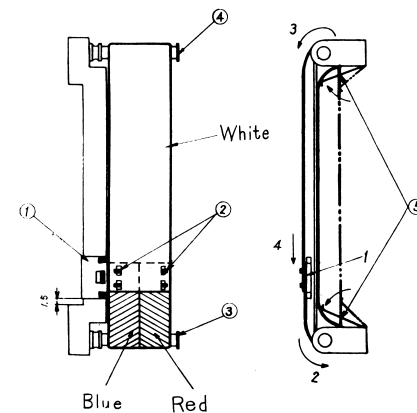


Fig. 4

## TO ALIGN SET (Refer to Fig. 5)

Set as follows previously.

Power Source : D. C. 6V

Volume Control : Maximum

Input Signal : Test oscillator modulated to 1000%, 30%.

Output Measuring : Connect to secondary terminal (8Ω) of output transformer or voice coil terminal of speaker and align the set according to the following chart keeping the output level on 50mW (0.63V/8Ω) or at 10mW (0.28v/8Ω) at SW.

Step	Band Switch	Input Signal		Places to be aligned	Location of V. Capacitor	
		Frequency	It is given to			
1	MW	455KC	X2 Base through 0.01μF	L5, 6, 7	Min. Capacity	
2		Repeat the step No. 1				
3	MW	520KC	Loop Antenna	L4	Max. Capacity	
4		1650KC		C4	Min. Capacity	
5		Repeat the step No. 3, 4				
6		620KC	Loop Antenna	L2	620KC Signal	
7	1400KC	C6		1400KC Signal		
8	Repeat the step No. 6, 7					
9	SW	3.85MC	Loop Antenna	L3	Max. Capacity	
10		12.5MC		C3	Min. Capacity	
11		Repeat the step No. 9, 10				
12		3.9MC	Loop Antenna	L1	3.9MC Signal	
13	11MC	C5		11MC Signal		
14	Repeat the step No. 12, 13					

## TEST OSCILLATOR

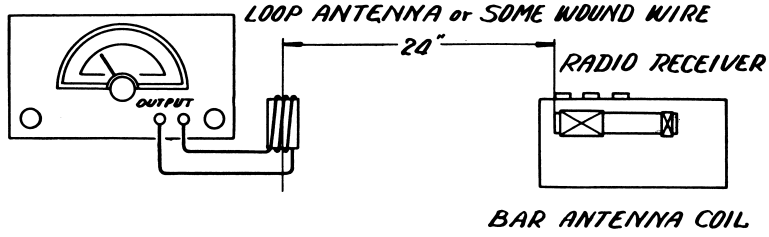


Fig. 5 Mutual position of antennas of receiver and oscillator when alignment.

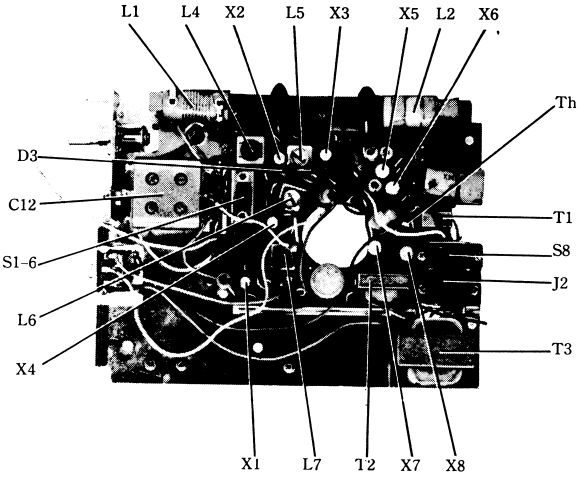


Fig. 6 Parts Arrangement on Printed Board

(Guide to Location of Coil, Transformer, Semi-conductor, and Switch.)

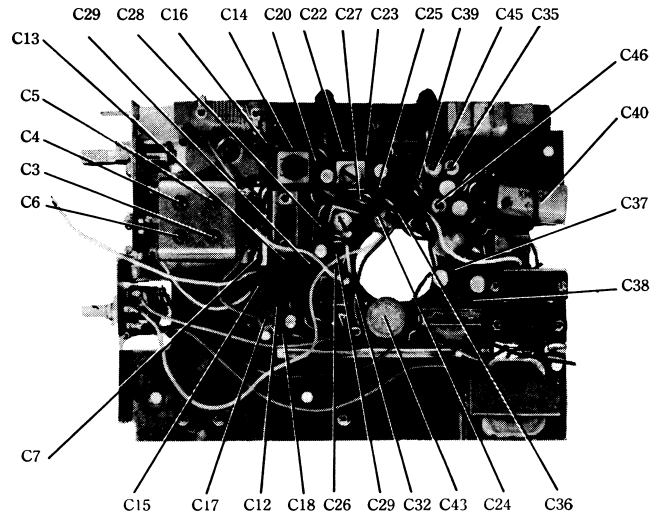


Fig. 7 Parts Arrangement on Printed Board

(Guide to Location of Capacitor)

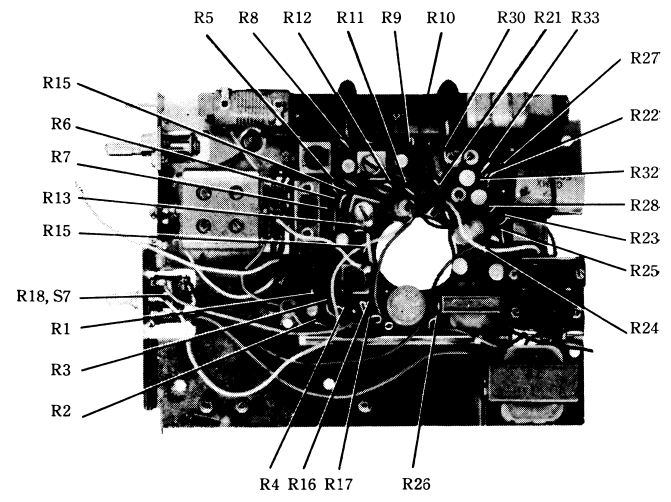
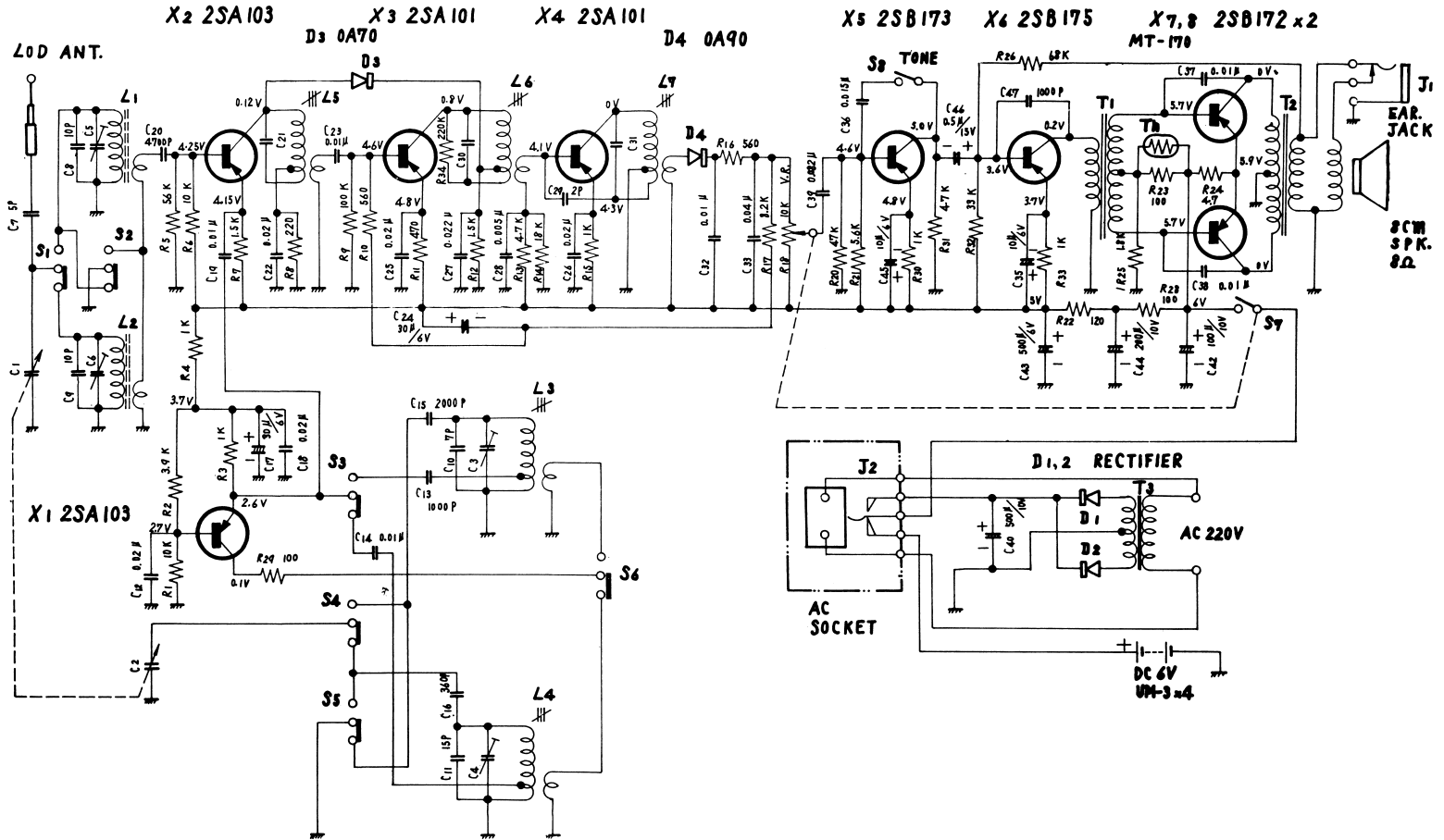


Fig. 8 Parts Arrangement on Printed Board

(Guide to Location of Resistor)



- Note:
1. Schematic diagram is shown with band-select switch (S1~6) in "MW" position.
  2. Voltage is measured with "V. T. V. M" from chassis at no signal.
  3. Last No. R34, C47.
  4. Blank No. R19, 27. C34, 41.

Schematic Diagram of Model A-730S. B



NIVICO

SERVICE NOTE

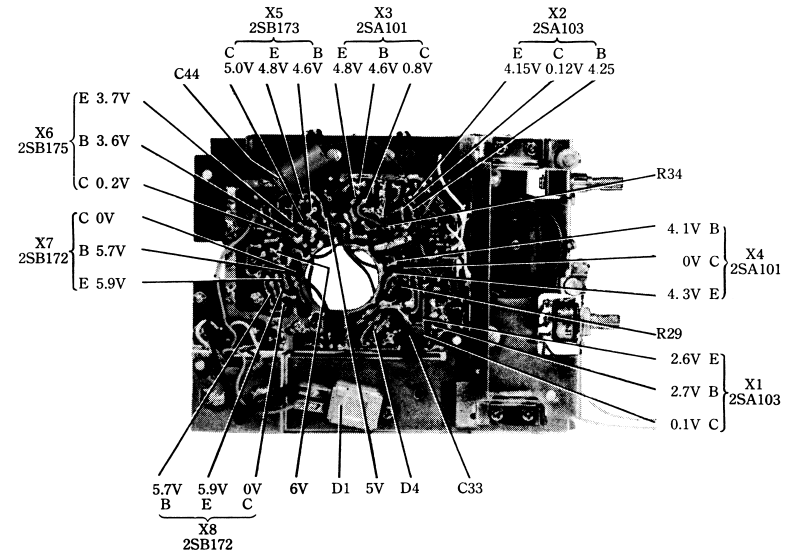
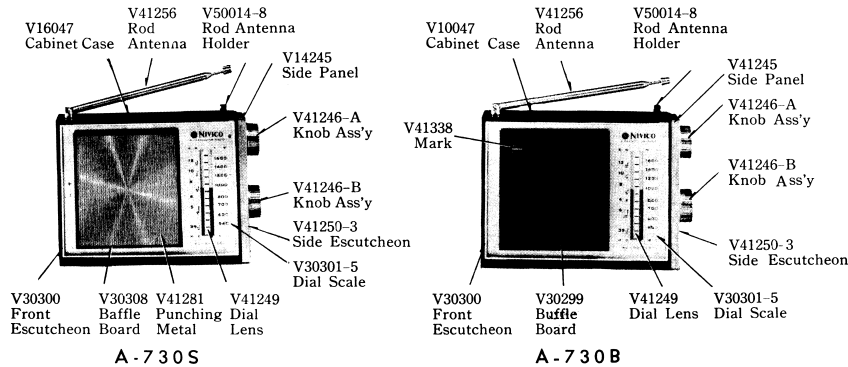


Fig. 9 Printed Circuit Voltage

MODEL A-730S, B

8-TRANSISTOR 2-BAND PORTABLE RADIO

DIMENSIONS: H-4 $\frac{3}{8}$ " W-6 $\frac{1}{4}$ " D-1 $\frac{1}{8}$ " WEIGHT: 1.7 lbs. (with batteries)

SPECIFICATIONS

- Frequency Range : MW 540~1600KC  
SW 3.9~12MC
- Intermediate Frequency : 455KC
- Antenna : Ferrite Core Antenna & Rod Antenna
- Transistor : X1 2SA103 Local Oscillator  
X2 2SA103 Mixer  
X3, 4 2SA101×2 I. F. Amp.  
X5 2SB173 Audio Amp.  
X6 2SB175 Audio Driver  
X7, 8 2SB172×2 Power Amp.
- Diode : D1, 2 V03006-1 (12C-2) Rectifier  
D3 OA-70 Overload A. G. C.  
D4 OA-90 Detector & A. G. C.
- Thermister : Th MT-170 Automatic Temperature Control
- Speaker : 3 $\frac{3}{8}$ " PM Speaker.
- Earphone : NIVICO Magnetic Type
- Power Output : 350mW
- Power Source : 6V D. C. (JIS UM-3, Size ASA Designation "AA" Cell or Equivalent×4)  
A. C. 220V (50~60 %)