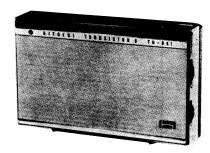
# HITACHI TRANSISTOR PORTABLE RADIO MODEL TH-841



# **SPECIFICATIONS**

CIRCUIT SYSTEM8-transistor superheterodyne TUNING RANGE535~1.605 kc
TRANSISTOR COMPLEMENT 2SA357 Frequency mixer
2SA357 Local oscillator
2SA151 1st I.F. amp.
2SA356 2nd I.F. amp.
2SB77 1st A.F. amp.
2SB75 2nd A.F. amp.
2SB156×2 Push-pull
class-B power amp.
GERMANIUM DIODE1N34A×2 Detector & AGC
VARISTOR HV-15 Temperature and voltage
compensator
SPEAKER
SPEAKER         .2½" P.M.           POWER OUTPUT         .180 mW (undistorted)
POWER OUTPUT180 mW (undistorted)
POWER OUTPUT

# ALIGNMENT PROCEDURE

Use batteries having the specified voltage. Voltage, when the switch is turned on (with no signal), must not less the switch is turned on the switch is turned on the switch is the switch is the switch is turned on the switch is the swi

- than 2.8 V.

  2. Turn the volume control to maximum, make 400 c/s or 1,000 c/s modulation to signal generator and connect the output of signal generator to the receiver chassis.
- 3. Connect the vacuum-tube voltmeter (with an AC 3V or

less scale) to the earphone jack. Make adjustments of the following tables to gain maximum on voltmeter.

H20

- In alignment, adjust the output of the signal generator so that the reading of voltmeter may not exceed 0.5 V at maximum.
- When adjustments is over, fix the antenna coils by waxing and the adjusted cores with white lacquer.

### Adjustment of Intermediate Frequency Circuit

Step	Turn Band-Switch to-	Sig. Gen. Output	Dial Pointer Setting	Adjust for Max. Output
8	MW	455 kc	Gang fully open	T,
0		455 kc	Gang fully open	T <sub>2</sub>
©		455 kc	Gang fully open	T <sub>1</sub>
0		Repeat steps (8), (6) an	d ©	

### Adjustment of Radio Frequency Circuit

Step	Turn Band-Switch to-	Sig. Gen. Output	Dial Pointer Circuit	Adjust for Max. Output
0	MW	520 kc	Gang fully close	L,
<b>(</b>		1,650 kc	Gang fully open	C 10
<b>©</b>		Repeat steps (a) and (f)		
<b>6</b>		600 kc	600 kc signal	L <sub>1</sub> coil's position
(I)		1,400 kc	1,400 kc signal	C 7
<b>(</b>		Repeat steps (h) and (1)		

## HOW TO LOOP DIAL CORD

- After the dial mechanism was assembled, turning the tuning control clockwise, set the dial pointer to the lowest position.
- 2. Tie an end of the nylon cord to the position ② of spring ①.
- 3. Set the spring according to the dimensions specified, and pass the cord through PULLEY ③ and PULLEY ④. Then pass it through the slot and the race of the tuning control. Wind the cord one and a half turns on the race, and pass it through PULLEY ⑤. Then giving a
- tension of  $150\,\mathrm{gr.}$ , tie its end to the position 6 of spring 1 and fix it with a clip. (Apply the adhesive on the knots.)
- Turn the control 180 degree in the opposite direction. Apply adhesive on its inner side.
- Turn the tuning control counterclockwise, and mount the pointer on the position indicated on the chassis. Apply adhesive on the contact point of the cord and the pointer.

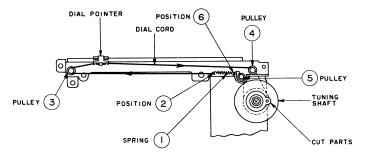


Fig. 3. Dial Cord and Pointer Mechanism

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