

SECTION 5. ALIGNMENT

Your Model TS-600 is factory adjusted prior to shipment and no further adjustments are required. However, if any trouble is encountered, please send it to your dealer.

Frequency Adjustment

When fixed channel crystal oscillators are added in the transceiver, adjust their frequencies as outlined below (the relationship between the markings on the FIX CH knob and the crystal oscillator sockets are shown in Fig. 9):

1. Remove the two screws securing the top face of the case. Pull up the two grommets and open the top lid.
2. Connect a frequency counter to the point TP2 in HET unit (X50-1360-00). The frequency counter should be capable of reading up to 10 MHz.
3. Adjust the trimmers (TC1 ~ TC5) corresponding to the newly used crystal oscillator sockets to produce the desired oscillator frequencies. (refer to Paragraph 4-5 "Operation with Fixed Channels").

Table 6

f_o (MHz) crystal oscillator frequency for FM, AM, and CW.
f_{USB} (MHz)	... crystal oscillator frequency for USB
f_{LSB} (MHz)	... crystal oscillator frequency for LSB.
x (MHz) desired operating frequency

	f_o (MHz)	f_{USB} (MHz)	f_{LSB} (MHz)
50 MHz BAND	$(69.90-10.70) - X$	$f_o - 0.0015$	$f_o + 0.0015$
51 MHz BAND	$(70.90-10.70) - X$	$f_o - 0.0015$	$f_o + 0.0015$
52 MHz BAND	$(71.90-10.70) - X$	$f_o - 0.0015$	$f_o + 0.0015$
53 MHz BAND	$(72.90-10.70) - X$	$f_o - 0.0015$	$f_o + 0.0015$

* Specifications for Crystal Oscillator Unit (option)

Type: HC-25/U

Order of oscillation wave: Fundamental wave

Frequency: 8.200 ~ 9.200 MHz

Oscillation circuit: CI meter

Oscillating condition: 32 pf (parallel capacity)/25 Ω or less (effective resistance)

Electrical characteristics:

* Operating temperature

-20°C ~ +60°C

* Allowable frequency deviation

Within $\pm 3 \times 10^{-5}$ (25°C)

* Frequency vs. temperature characteristic:

Within $\pm 3 \times 10^{-5} + (0 \sim 50^\circ\text{C})$

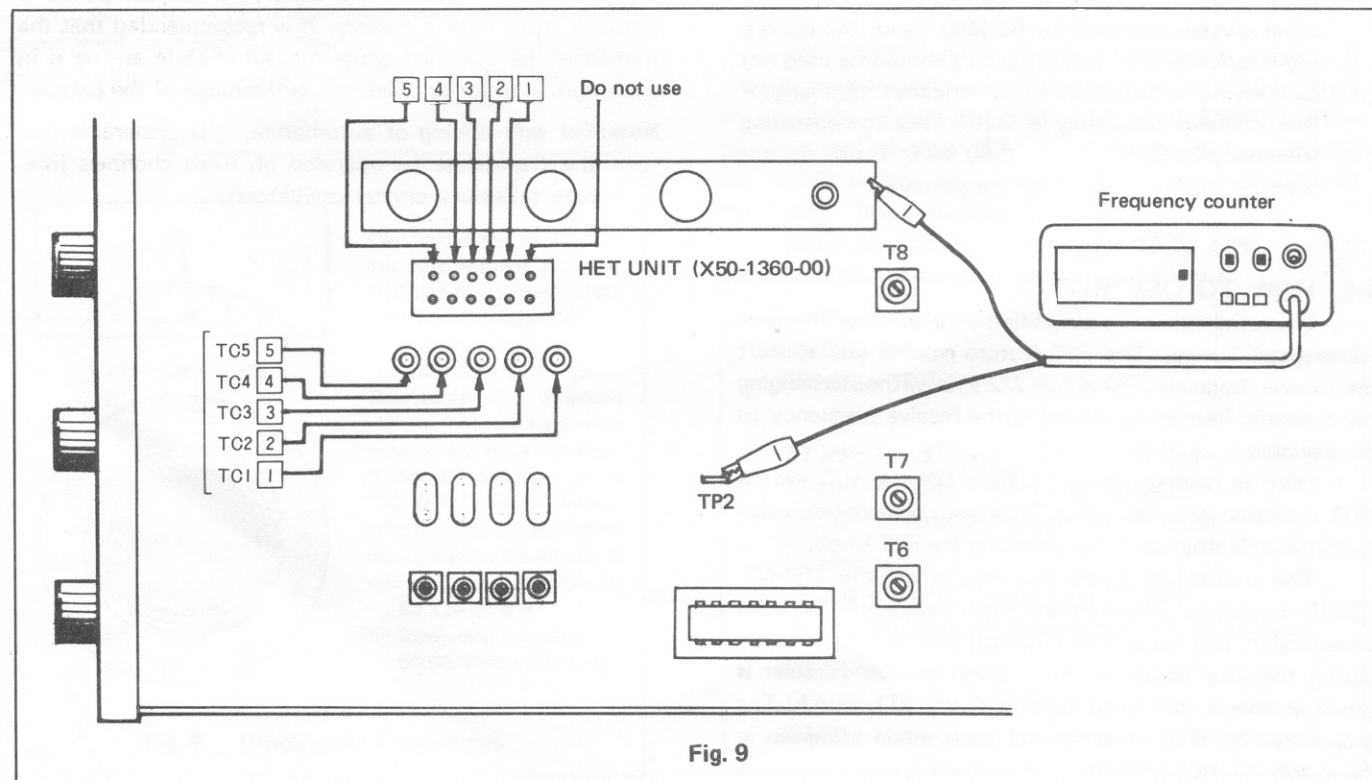


Fig. 9