

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

	fo (MHz)	fUSB (MHz)	fLSB (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)/25Ω or less (effective resistance)

Electrical characteristics:
 * Operating temperature: $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$
 * Allowable frequency deviation: Within $\pm 3 \times 10^{-5}$ (25°C)
 * Frequency vs. temperature characteristic: Within $\pm 3 \times 10^{-5} + (0 \sim 50^{\circ}\text{C})$

