

SX-117 IF ALIGNMENT UPDATE 3/2020

Control setup:

BAND SELECTOR: As noted in chart.

RF & AF GAIN: Maximum.

SELECTIVITY: As noted on chart.

FUNCTION: As noted on chart.

NOTCH: off

OFF/ANL/CAL: OFF

BFO: 0 (center point)

Step	Signal Generator Connections	Generator frequency	Band & MODE	Audio Output AF GAIN @ Max	Selectivity
1	Pin 2 of V8	50.75 KHz CW	80 Meters LSB	1 watt	2.5KHz
	Injection level 10Kuv or less using a 1x scope probe. Adjust T5, T6, T7 and T8 for maximum audio output.				
2	Pin 7 of V5	1650 KHz 1000 cycles 30% mod	80 Meters AM	500mw	2.5KHz
	Injection level of 300uv. or less. Slowly tune generator through 1650KHz to determine center of IF passband. Set generator at center of IF passband. Adjust top & bottom of T3 & T4 for maximum audio output.				
3	Pin 2 of V2	6.050 MHz 1000 cycles 30% mod	80 Meters AM	500mw	2.5KHz
	Injection level of 200uv or less. Adjust receiver tuning until audio output is achieved at approximately 3.95 MHz. Adjust top cores of T1 & T2 for maximum audio output. Reduce generator as needed to maintain 500mw audio output.				
4	Pin 2 of V2	6.450 MHz 1000 cycles 30% mod	80 Meters AM	500mw	2.5KHz
	Injection level of 200uv. Adjust receiver tuning until audio output is achieved at approximately 3.55 MHz. Adjust trimmers C15b & C15d for maximum audio output. Reduce signal generator output as required to maintain 500mw audio output. Repeat steps 3 & 4 until no further increase is achieved.				