

PRESIDENT MADISON-STALKERXX

Alignment of PLL and Carrier Oscillator

Test Equipment required

DC Power Supply
Frequency counter
50 Ohm Load
Oscilloscope

Clarifier>Center. PA-CB switch to CB> Transmitter ON. RX Mode

Alignment Procedure

STEP	PRESET TO	ADJUSTMENTS	REMARKS
1	Channel Switch>40 Mode SW>USB	L19	Connect Oscilloscope to R207 (+), L6(-) Adjust for 3.5V DC reading on Oscilloscope (Oscilloscope) in DC mode
2	Channel Switch>19 Mode SW>USB	L21	Connect Oscilloscope to R101 (+), adjust for Maximum reading on Oscilloscope
3	As STEP 2	L20	Connect Oscilloscope to R101 (+), adjust for Maximum reading on Oscilloscope
4	As STEP 2	Ct1	Adjust for 34.98650 Mhz
5	As Step 2 Except Mode SW>AM	L23	Adjust L23 to obtain 34.9850 Mhz
6	As Step 2 Except Mode SW>LSB	L22	Adjust L22 to obtain 34.98350 Mhz
7	As Step 2	Vr5	Set PTT SW to TX. Adjust Vr5 to obtain 34.98350 Mhz
8	As Step 2	Ct2	Connect Oscilloscope to R86 (+), L6(-) adjust to obtain 7.8015 Mhz on Frequency Counter
9	As Step 6	L30	Adjust L30 to obtain 7.798050 Mhz
10	Mode SW>AM No Modulation PTT>TX	L31	Adjust L31 to obtain 27.18500 Mhz