

PRESIDENT MADISON-STALKER XX

Alignment of Transmitter.....

Test Equipment required

AF Oscillator (two required) RF Power Meter DC Power Supply DC Current Meter	AF VTVM Frequency counter 50 Ohm Load	RF VTVM Oscilloscope Spectrum Analyzer
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 Channel Switch 19> Mike gain-Max> PA-CB switch to CB> Transmitter ON. TX Mode

Alignment Procedure

STEP	PRESET TO	ADJUSTMENTS	REMARKS
1	Mode SW: USB S1 and S2- OFF	VR9	Disconnect Tp8. Connect DC Current Meter. Adjust for 30Ma.
2	As above	VR8	Disconnect Tp7. Connect DC Current Meter. Adjust for 40Ma.
3	After Step 1 and 2> restore circuit at Tp8 and Tp7		
4	As STEP 1 Except S1 & S2> ON Osc 1>500Hz Osc 2>2400Hz	L47 & L48	Set Vr11 To full CW rotation. Keep AF ATT setting for approx 20v reading on RF VTVM. Then adjust coils for max reading.
5	As Step 4	L45 & L46	Set the core of L45 at the bottom. Adjust L46.for maximum reading. Check the power difference between Ch1 & Ch40.
6	As Step 1 Except OSC1>1KHz S1> ON	L38	Adjust level of OSC1 for 5mV reading on AF VTVM, then adjust L38 for max reading on RF VTVM
7	As Step 1	Vr4	Adjust for minimum carrier leakage for both USB and LSB on Spectrum Analyser
8	As Step 1 except S1 and S2: ON OSC1: 800Hz	Vr11	Adjust OSC1 and OSC2 for 5mV reading on AF VTVM, then adjust Vr11 for 24.5V reading on RF VTVM.