

PRESIDENT JFK

TRANSMITTER ALIGNMENT =====

1. Test Equipment Required

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|-------------------------------------|---------------------------------|
| a) Oscilloscope (100 MHz). | f) Frequency Counter (100 MHz). |
| b) DC Power Supply (13.8v, 3 Amps). | g) Deviation Meter. |
| c) RF Power Meter. | h) AF Oscillator. |
| d) AF Voltmeter (V.T.V.M). | i) Spectrum Analyzer |
| e) 50 Ω Dummy Load & Attenuator. | |

2. Alignment Procedure MIC GAIN : MAX S/RF – SWR – CAL : S/RF

STEP	PRESET TO	ADJUSTMENT	REMARKS
1	Channel :19 Band : MID Mode : AM Power : MAX Mod : NO	L19, L20 and L18	First turn down the core of L18 to the bottom. Connect the Oscilloscope to TP2 (R79). Adjust coils L19, L20 for MAX reading of the scope readjust L18 for MAX reading on the scope.
2	Same as step 1	L20, L15 and L14	Connect RF Power Meter To ANT JACK (J201). Adjust coils for maximum reading on the RF Power Meter
3	Same as step 1 Except Channel 1 and 40 Band : LOW & HI	L11	Adjust L11 for minimum difference between the following conditions. Band LOW Channel 1 and BAND HI Channel 40.
4	Same as step 1	VR3	Adjust VR3 so that the S/RF meter points to same as the RF Power Meter.
5	Same as step 1 Except Power : LOW	VR501	Adjust VR501 so that the RF Power Meter 1.5 to 2 Watt.
6	Same as step 1 Except Mode : FM	VR801	Connect Deviation Meter to ANT JACK (J201) and AF Oscillator to the MIC JACK. Set the AF Oscillator to 1KHz at 30mV output. Adjust VR801 for 4 KHz deviation.
7	Same as step 1	VC1	Connect Frequency Counter to ANT JACK (J201). Adjust VC1 for 27.1850 MHz.

3. Test Equipment Connection

