

President Lincoln CB-Radio

ALIGNMENT PROCEDURE

TRANSMITTER PORTION

Test equipment required:

Power Supply: 13,8 V

AF VTVM

Dummy Load, 50 ohm

AF SSG

FM Linear Detector

RF VTVM

Oscilloscope

DC AM-meter

RF Power Meter

Preparation alignment:

VR112

Clockwise

VR113

Counter Clockwise

VR103

Clockwise

SWR/CAL

Clockwise

RF Gain

Middle position

PA SW

Off

INDIC SW

RF

Mic Gain Sw

Off

RF Power

Max.

Frequency

28.000 MHz

Step	Condition	Adjustment	Procedure
1	USB No Mod.	VR112	Remove the B002 (PB-100) from Main PCB. Connect a DC AM Meter to TP4 (+) and TP3 (-). Adjust VR112 for 50 mA reading on the DC AM Meter.
2	USB No Mod.	VR113	Remove the B002 (PB-100) from Main PCB. Connect the DC AM Meter to TP4 (+) and TP2 (-). Adjust VR113 for 50 mA reading on the DC AM Meter
3	USB 1 mV Mod.	L111	Connect a RF Power Meter to Ant.jack. Connect a RF VTVM, an Oscilloscope and an RF Linear Dectector across an Dummy Load to the RF Power meter. Adjust L111 for maximum reading en the RF VTVM. During this step, set the AF Oscillator so that the output is less than 20 V. Repeat this step two times.
4	USB 30 mV Mod.	VR104	Adjust VR104 for 32.5 V reading on the RF VTVM.
5	USB 30 mV Mod.	VR106	Adjust VR106 so that the carrier leakage at USB and LSB become minimum and almost equal.
6	CW No Mod.	VR103	Connect a SW between Pin 8 and 9 of ACC connector. When turn on the SW, adjust VR103 for 21 Watt reading on the RF Power Meter.

7	AM No Mod.	VR107	Adjust VR107 for 10 Watt reading on the RF Power Meter
8	AM No Mod.	VR117	Adjust VR107 so that "9" LCD just light on.
9	AM 1 kHz 30 mV Mod.	VR114	Adjust VR114 to obtain the 85% negative reading on the Oscilloscope.
10	AM 1 kHz 1 mV Mod.	VR115	INDIC: MOD. Adjust VR115 so that "9" LCD just light on.
11	FM 1 kHz 30 mV Mod.	VR105	Adjust VR105 for +/- 3 kHz deviation on the FM Linear Detector.
12	CW No Mod. Vol.: Max.	VR116	Connect an AF VTVM across a Dummy Load (8 ohm) between Pin 1 and Pin 2 of ACC connector. When turn on the SW, adjust VR116 for 0.4 V reading on the AF VTVM.

