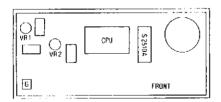
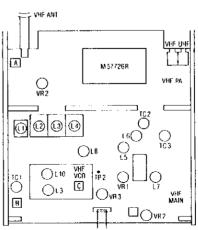
ADJUSTMENT

1. VHF Unit

ITEM	ADJUSTMENT POINT (S)	ADJUSTMENT METHOD
VCO VOLTAGE	© L3, L10 (VCO BOX)	At 145.00MHz, adjust L3 so that the voltage of TP2 on B substrate is 3.0V. At 145.00MHz, pressing the PTT button, adjust L10 so that the voltage of TP2 on B substrate is 3.4V.
BASIC FREQUENCY	® TC1	Pressing PTT button, adjust TC1 so that f-counter indicates 145.950 ± 0.1 kHz .
TX POWER	® TC2, 3	On "HI" position, pressing the PTT button, adjust TC2 and TC3 so that the power is maximum at 145.95MHz.
POWER OUTPUT	(A) VR2 (HI)	On "HI" position, turn VR2 for 45W output at 145.95MHz. Verify the lightining of the entire RF meter.
	© VR3 (MID)	On "MID" position, turn VR3 for 10W output at 145.95MHz.
	© VR4 (LO)	On "LO" position, turn VR4 for 5W output at 145.95MHz.
DEVIATION	® VR3	Enter the AF level of 0dBm, then pressing the PTT button, adjust VR3 so that you obtain 4.8kHz/Dev at 145.95MHz and AF 1kHz.
MIC GAIN	© VR1	Enter the AF level of -46dBm, then pressing the PTT button, adjust VR1 so that you obtain 4.0kHz/Dev at 444.95MHz and AF1kHz.
SUBAUDIBLE TONE DEVIATION	© VR2	Pressing the tone button at 145.95MHz, verify 0.6 – 0.8kHz / Dev at tone frequency of 88.5Hz.
DESCRIMINATOR	(B) L5, 6, 7	At 146.03MHz (T) and 60 dB μ input, adjust L5, 6, 7 so that the distortion is minimum at 50mW.
SENSITIVITY	® L1, 2, L3, 4, 8	Adjust L1, 2, 3, 4, 8 so that 12dB SINAD sensitivity is the highest at 146.03MHz.
SQUELCH	® VR2	At 146.03MHz and cut SG output. Adjust squelch knob point by VR2.
S-METER	® VR1	At 145.03MHz and 3-dB μ [EMF], adjust VR1 so that 2 in the S-meter begins to light.





2. UHF Unit

ITEM	ADJUSTMENT POINT (S)	ADJUSTMENT METHOD
VCO VOLTAGE	© L4 (VCO BOX)	At 445.00MHz (T), adjust L4 so that the voltage of TP2 on E substrate is 4.0V (T).
POWER OUTPUT	© VR1 (HI)	On "HI" position, turn VR1 for 35W output at 444.95MHz, at Verify the lighting of the entire RF meter.
	© VR3 (MID)	On "MID" position, turn VR3 for 8W output at 444.95MHz.
	© VR4 (LO)	On "LO" position, turn VR4 for 4W output at 444.95MHz.
DEVIATION	© VR2	Enter the AF level of 0dBm, then pressing the PTT button, adjust VR2 so that you obtain 4.8kHz/Dev at 444.95MHz and AF 1kHz.
MIC GAIN	© VR1	Enter the AF level of -46dBm, then pressing the PTT button, adjust VR1 so that you obtain 4.0kHz/Dev at 444.95MHz and AF 1kHz.
SUBAUDIBLE TONE DEVIATION	© VR2	Pressing the tone button at 444.95MHz, verify 0.6-0.8kHz/Dev at tone frequency of 88.5Hz. Adjust VR2.
HELICAL FILTER	© TC1, TC2 L1, L2	Connect the output of a tracking generator to the antena and spectrum analyzer to TP1 the adjust TC1, 2 and L1, 2 so that the sensitivity is at its peak between 440 and 450MHz at maximum gain.
DESCRIMINATOR	€ L3, L5	At 445.03MHz (T) and 60 dB μ input, adjust L3, L5 so that the distortion is minimum at 50mW.
SQUELCH	© VR1	At 445.03MHz (T) and cut the SG output power. Adjust squelch knob point by VR1.
S-METER	© VR5	At 445.03MHz (T) and 3-dB $\!\mu$ [EMF], adjust VR5 so that 2 in the S-meter begins to light.

