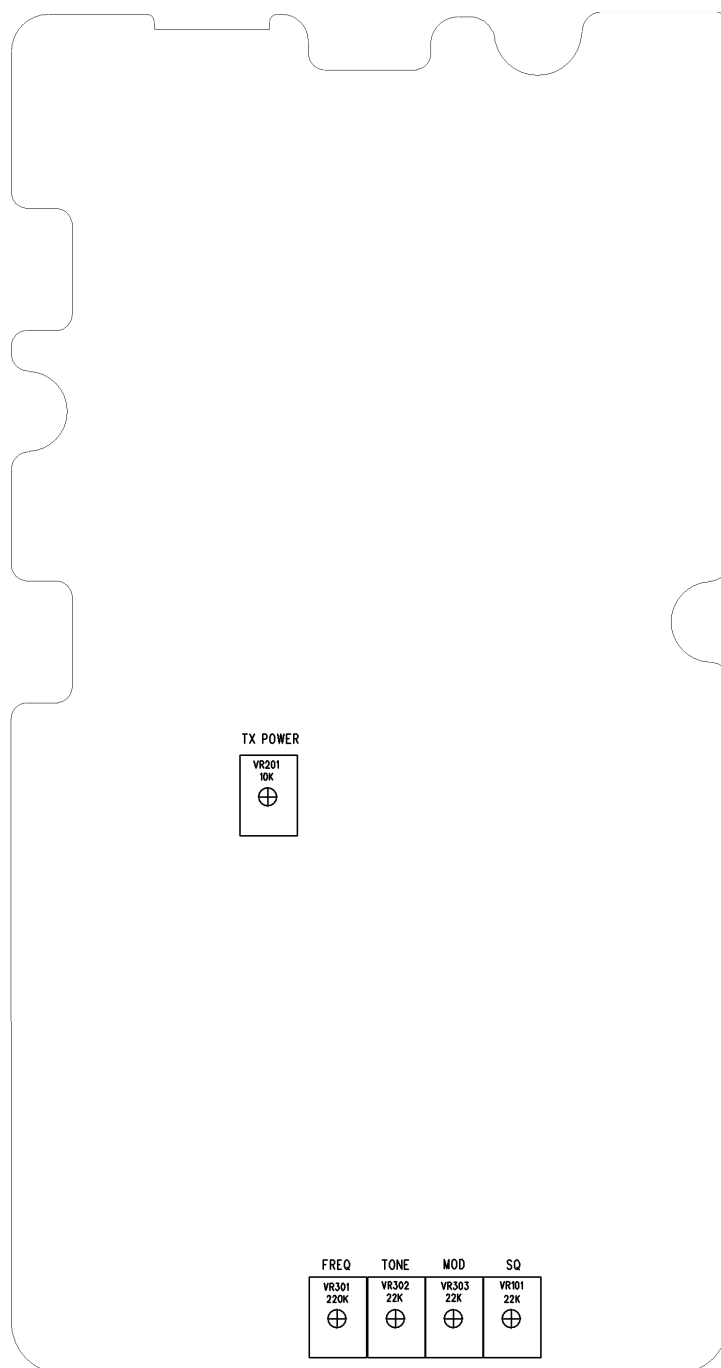


6. Alignment

6-1 Alignment point



6-2 Voltage Check

- 1) Set up the radio frequency to (405.025[Mhz]) then measure whether R/Tx voltage is over 0.8[V].
- 2) Set up the radio frequency (489.975[Mhz]) then measure whether R/Tx voltage is under 5[V].
- 3) When Un-Lock is display on LCD means defective goods.

6-3 Transmitter

- 1) At the frequency range of (446.025[MHz]), set up Tx mode then adjust frequency by using VR 301 at the level of ± 150 [Hz]. High power should be 3~4.6[W]. In case of out of this range, you can check whether current is under 2A then adjust at the level of 3.8W by using VR501.
Low power should be 1[W] ± 0.2 [W]. In case of out of range, you can adjust it by using VR502.
FM DEVIATION should be adjusted at the level of 2.1[khz] ± 0.1 [khz] by using VR303.
Low frequency input is 1[kHz],50[mV].
- 2) After you set up MOD at the frequency range of (446.025[MHz]), adjust TONE DEVIATION by using VR 302 at the level of 0.45[kHz] ± 0.05 [kHz] .

6-4 Receiver,

Set up Receiving Mode at (SSG -60dBm). At the frequency range of 446.025[MHz], FM 1.5[kHz], adjust Volume at (0.5[W]). Sensitivity at the level of 12[dB] SINAD, check whether it is under -119[dBm]., and SQ(LEVEL8) is between -117[dBm] ~ -123[dBm] by using VR101. In case of out of range, adjust it at 120[dBm].

6-5 Wideband specification check

At the frequency range of (446.025[MHz]), you have to check whether FM DEVIATION should be (3.6 ~ 4.8[kHz]), in case of 1G-4(446.025[MHz]), TONE DEVIATION should be (0.5~1.2[KHz]). Also, you have to check whether in case of 1G-2(446.025[MHz]), sensitivity should be (12[dB] SINAD, -119[dBm]). SQ sensitivity is between -116[dBm] and -124[dBm]

6-6 FINAL(QC) Inspect specification

- 1) 456.025[MHz] Narrow
 - a. Frequency : ± 300 [Hz]
 - b. Output power(L/H) : 0.7 ~ 1.2[W] / 3 ~ 4.6[W]
 - c. FM DEVIATION(Narrow) : 1.8 ~ 2.5[kHz](1[kHz], 50[mV])
 - d. TONE DEVIATION : 0.3 ~ 0.6[kHz]
 - e. Sensitivity : < -117[dBm]
 - f. SQ Sensitivity : -116[dBm] ~ -124[dBm]
- 2) 456.025[MHz] Wide band
 - a. FM DEVIATION(Wide band) : 3.8 ~ 5.0[kHz](1[kHz], 50[mV])
 - b. TONE DEVIATION : 0.5 ~ 1.2[kHz]
 - c. Sensitivity : < -117[dBm]
 - d. SQ Sensitivity : -116[dBm] ~ -124[dBm]