

## Instructions of the principles for Transmitter RF

### Explanation of the principles for FM 27 MHz Transmitter RF

Modulate signal from CPU via R63, R45, R46, C32, C45, Q1, SVR3, SVR4, R47, R48, C33 shape & converted modulate signal.

SVR3, SVR4 adjust, suitable voltage level & modulate capacitor for coupled modulate.

R50, R52, C34, C35, Q2, X2 for oscillating stage, C34 make use of temperature compensator to avoid temperature change make unstable oscillation.

R57, R58, C42, R59, Q4, R61, R62, C44, L3, R60, C43 form power amplify stage. R62 avoid Q4 power tube output current gain too high & caused Q4 power tube damage.

R57, R58, C42 for power tube bias supply C46 coupling signal to prevent unnecessary high frequency output to C50, C47, L4, C47, C48 high frequency in order

To prohibit third harmonic wave output L5, C49 configure antenna matching form resonant output to prevent power tube damaged form harmonic wave.