

TX400-72FM Transmitter Adjusting Progress

There are two steps when adjusting up the transmitter:

1. PCB testing

1.1 Adjusting the frequency of the transmitter by modulating the potentiometer TR_1 , TR_2 and the local oscillator loop L_1 on the PCB.

1.2 Adjusting the power of transmitter by modulating the antenna loop T_2, T_3, L_2 and L_3 . Measure the voltage between antenna load "U_p": $U=U_p \times 0.75 \times 2$, $P=U^2/R$, there into $R=47$.

1.3 Measure the stability of frequency

Power on the PCB, then measure frequency and mark it as f_1 , measure frequency again after 15 minutes and mark it as f_2 :

$$f_2 - f_1 < 1.0 \times 10^{-5}$$

2. Check the whole device

Connect a motor and two servos to the output of suitable receiver, operating both the Throttle lever and the directional control stick, and the helm on the servo will be running according to this control.

Transmitter could be consider eligible if it meets the above requirements.