珠海星宇模型实业有限公司

ZHU HAI XING YU MODEL PRDDUCTS., LTD

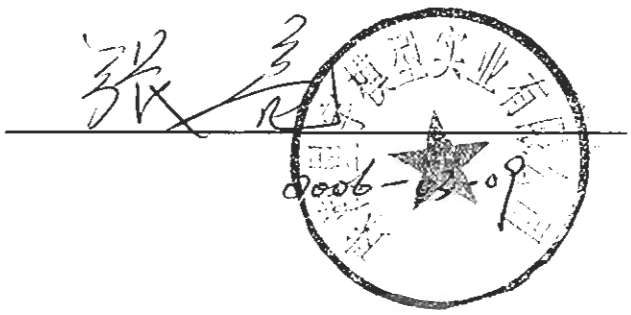
Confirmation Letter

Product: Trarsmitter

Model No:T3-72F

Note:

None of the components with the listed discrepancies can be changed or modified by the user to make this device operate on the none US frequencies.



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T3-72F Transmitter Manul & Operation Introduction

1. General description of circuit

The transmitter circuit is made up with HF and LF circuit. The HF circuit contains RF OSC, amplifier and output circuit. The LF circuit contains signal source and signal shaping circuit.

The RF OSC gives the carrier signal to the amplifier, then sent out by the antenna.

The local OSC signal is modulated by the control signal which has been gained and shaped from modulation circuit

2. Target function

Operation Frequency: 72.130MHz~72.870MHz(10 frequency points included, frequency blank is 20KHz)

Modulation Degree: f_o±3KHz(f_o is the rated frequency)

Output Power: ≤750mW

Channel: 3 proportional channels

Operation voltage: DC_9.6V

Watt consumption: ≤200mW

T3-72F Transmitter Adjusting Progress

There are two step when adjusting up the transmitter:

1. PCB testing

1.1 Adjusting the frequency of the transmitter by modulating the potentiometer W_1、W_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": $U=U_P\times0.75\times2$, $P=U^2/R$, there into $R=47\Omega$.

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:

$$f_2-f_1<10\times10^{-6}$$

2. Check the whole device

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

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