

49.860MHz receiver operational description of plane

The plane is a full function radio controlled toy plane .It is 7.4 volts rechargeable Li-Po pack battery .This plane is designed to operate on a signal fixed frequency in 49.82~49.90MHz .Please consult with added block diagram and schematic .

The modulated RF signal from the transmitter coupling to U16, then the R(right),L(left),F(forward) Turbo and B(back) signal will be decoded by L1 C1 and Q1 makes up of oscillator ,which sends out basic oscillatory signal . The signal of F ,B,L,F1,F2 and R from transmitter is processed by U1 . the order signal of F,B,L ,F1,F2 and R will be generated in the form of an electronic signal and then enter into drive circuit .When the R .L electronic signal enter into CD4011and F,F1,F2,R,electronic signal enter into Q10 ,Q2,Q3 steering will run .In the same way , MOTOR 1,2 will be controlled run on the low and high speed.

When RX will charge about battery .it need charger 120V. RX Charge finish(battery is 7.4V) that the U19 pin will to low volts.When battery volts is to low(3.3V or down) .Then RX will stop work.

All tuning and verifications are performed by the manufacturer and there are no adjustments which can be made by the user . No external ground is required or used with this receiver .