

## **49.860MHz receiver operational description of Morpibian**

The Morpibian is a full function radio controlled toy plane .It is 9.6V volts rechargeable Ni-Cd 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 U1, then the R(right),L(left),F(forward) and B(back) signal will be decoded by L2 L3 and Q1 makes up of oscillator ,which sends out basic oscillatory signal . The signal of F ,B,L and R from transmitter is processed by U1 . the order signal of F,B,L and R will be generated in the form of an electronic signal and then enter into drive circuit .When the F electronic signal enter into Q3 and B electronic signal enter into Q7 , Motor 1 will run .In the same way ,R electronic signal and L electronic enter into Q13 and Q9 . Motor 2 will run. When power switch to ON place that the white and red LED same will be lighted.

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 .