

## **49.860MHz receiver operational description**

### **of 62071 Monster Slicks Speed Buggy**

The car is a full function radio controlled toy car. it is 6 pcs AA 9.0V battery to supply voltage for car. This car is designed to operate on a signal fixed frequency in 49.86~49.90MHz .Please consult with added block diagram and schematic .

The modulated RF signal from the transmitter coupling to MODULE through ANT .then the R(right),L(left),F(forward) and B(back) signal will be decoded . The signal of F ,B,L and R from UA1 is generated in the form of an electronic signal and then enter into drive circuit .When the R electronic signal enter into Q5 and left electronic signal enter into Q6 , MOTOR 2 will be controlled to run by Q13,Q14,Q11,Q12 .In the same way ,F electronic signal and B electronic enter into Q3,Q8 . MOTOR 1 will be controlled by Q1,Q2,Q18,Q4,Q17,Q7.

R17 is check resister of heavy-current , when the current which flow to R17 beyond 4A ,the D4 and D9 is changed low voltage by U2-A ,U2-B and U2-D.F and B electronic signal is changed low voltage .Thus ,the drive circuit is protected .

U2-C,Q19,Q20 ,Q16 and its peripheral circuit makes up of protection of low voltage .If the voltage is under 5.0V .The car do not 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 .