

49.860MHz receiver operational description of Spidermen Monster Truck

The Monster Truck car is a full function radio controlled toy car .There is two types of supply voltage form for car ,one is 9.6 volts rechargeable Ni-MH pack battery .This car 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 induces an electrical signal into the car's permanently attached metal antenna. The electrical signal is selectively amplified by a super regenerative input circuit (L1,Q7,C15,Q9 ,T1,C10).

The signal is then input into an integrated circuit (U1), where the signal is amplified and decoded two pairs of digital outputs Q17,Q24,Q2,Q23,Q19,Q20 control to the driving motor M3.Steering motor M2 driving circuit comprised of Q15,Q6,Q5,Q13,Q14,Q11,Q12.

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.