

Operation Description for 12" Vehicle (49MHz) Full Functioned

The transmitter of the 12" Vehicle (49MHz) Full Functioned is powered by one 9V battery. The radio frequency channel is 49.860MHz. There are 2 control sticks. When the push button is pushed to "ON" on the bottom of the vehicle (receiver) and the control sticks are pressed, it will transmit different radio control signals.

The receiver (the vehicle) of the 12" Vehicle (49MHz) is powered by one of 7.2V charge batteries. The radio frequency channel is 49.860 MHz. There are two motors on the receiver. When it receives the radio control signals, it will move to the corresponding direction.

Referring to the transmitter circuit design, the circuit description is listed below:

- D1 and associated components act as a voltage regulator.
- IC1 and associated components act as an inductor circuit.
- Q2, Y1 and associated components act an oscillator.
- Q1, L2 and associated components act an encoder.

Referring to the receiver circuit design, the circuit description is listed below:

- Q1 and associated components act as a receiver.
- D1 and associated components act as a voltage regulator.
- IC1 and associated components act as decoder.
- Q4 ~ Q9 and associated components act a motor driver for $>M$.
- Q2, Q3, Q10 ~ Q13 and associated components act a motor driver for $M<$.