



**Echo Toys Limited**  
力圖玩具有限公司

Model No: 91251-49.860MHz

## CIRCUIT DESCRIPTION

In transmitter, press the Forward, Forward-Left, Forward-Right, Or press the backward, Backward-left, Backward-Right, output U1 pin 8 supply encoding signal. Q1 & X1 is a crystal oscillator of 49.860MHz frequency. Q2 is a modulator. Output of Q2 drives the transformer L3. The antenna is coupled to the modulator by the transformer.

In receiver L1 is tuning 49.860MHz frequency. And Q1 is a RF amplifier and detector stage. U1 is a signal amplifier and decoder, it controls the output of U1 pin6, 7 and pin11, 12. Q2, Q3, Q10 and Q11 are regulator. Q12, Q13, Q14, Q15 are Left-motor driver, and Q4, Q5, Q6, Q7 are Right-motor driver.

## ANTENNA AND GROUND CIRCUITRY

This unit makes use of an external flexible 39 centimeters long antenna. The antenna is inductively coupled. The unit relies on the ground tract of the printed circuit board. No external ground is provided. Energy is supplied a 9-volt battery.

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