



Echo Toys Ltd.

力圖玩具有限公司

Model No: 31T27, 90377

CIRCUIT DESCRIPTION

In transmit push the left switch, the transistor Q1 and Q2 output 1KHz signal to modulate the oscillator Q3 which generates the oscillate of 27.145MHz. This oscillator is the transmitter. The antenna is transformer coupled to the oscillator with the tuning circuit. Similarly, push the right switch Q1 and Q2 output 1KHz signal to modulate the oscillator Q3. In receive L1 being tuned on 27.145MHz frequency, the amplifier Q1 amplify and detect the signal from the antenna to give the IC PT8A976BW. When IC PT8A976BW receive the 1kHz signal, make the pin F output to drive Q1. Similarly IC PT8A976BW receive the 300Hz signal, make the pin B output to drive Q2. Finally Q1 and Q2 drive Q3 and Q4 and Q5 and Q6 driving the motor forward or backward.

ANTENNA AND GROUND CIRCUITRY

This unit makes use of an external flexible 17 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 supply by a 9-volt battery.

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