EUT description:

The transmitter is powered by 3 AAA batteries.

It is manually operated and uses DSC to code signal. It has 15 buttons corresponding to the I/O port of the microchip. That is, there are 15 codes for the control signal. These 15 codes are 0000, 0001, 0011….. corresponding to number of hex. For the waveform against time, the 1/4 width stands for 1 and the 3/4 width stands for 0. The receiver is connected to motors and the motors can move according to the transmitter.

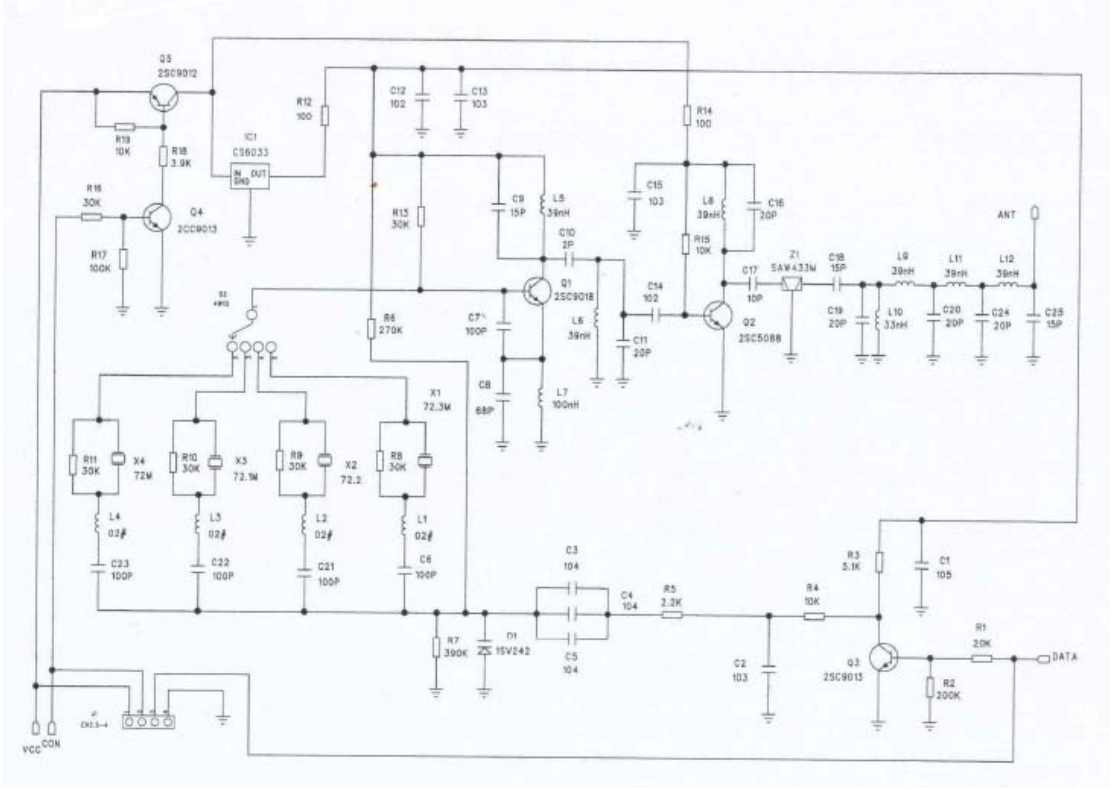
How to remote control the actuator.

1. *Power the transmitter, power the receiver and connect the actuator to the receiver.*
2. *Press the button on the transmitter.*
3. *The receiver can receive signal from transmitter and decode, then it can control the actuator to perform action.*

Frequency bands description:

EUT uses 433.05MHz, 433.35MHz, 434.45MHz, 434.75MHz.

Circuit description:



About the circuit, there are four crystals: 72MHz, 72.1MHz, 72.2MHz, 72.3MHz, then the signal will be changed to be 433.05MHz, 433.35MHz, 434.45MHz, 434.75MHz together with the LC circuit. The signal can be coded by the microchip PIC16F57 then generated to the space through the internal antenna.