

Circuit Description

Model: Mini Traps Prepared by: Hip Kian Rev: 0

Transmit Circuit Description:

When TX unit is turned on, a RF format code signal is sent out. The crystal controlled oscillator Q2 output is coupled through C4 to the base of Q1. From the emitter of Q1, the modified RF signal is fed through L2 and antenna.

The low pass filter made up of C3, C5 and L1 which are connected to the antenna. The modulation is provided by IC TX2C. The RF signal is to be sent first when power on. When one of the control button is pressed, the modulation control signal will be sent to the base of Q1 that will modulate Q2 RF wave directly.

Energy is supplied by two 1.5V AA alkaline batteries.

Receiver Circuit Description:

Q1 is the superregenerator and detector. IC XC885 is the step-up DC-DC converter. IC RX2C is the signal decoder. The transmitter Q3 to Q9 is the motor driver circuit.

Energy is supplied by a 1.2V rechargeable Ni-Mh battery.

Charger Circuit Description:

Q6 and Q7 is Charger driver. Q4 is the electronic switch of charger loop. Q5 and Q3 is controller.

Energy is supplied by three 1.5V AAA alkaline batteries.