

#### Receiver circuit description:

The Q1 is forms a superhetregen receiver. The U1 is working as Decoder. The decoder out put drive the speech ic U2 to play voice and melody. The Q2 to Q4 is driver for the light bulb. The Q5 and Q6 is driver for the motor. The Q7 and Q8 is a speaker for the speaker.

#### Antenna and ground circuitry

This unit make use of a internal 180 mm 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 by 4.5V battery.