

## **SY-31 circuit description :**

### **1. In transmit mode :**

Power unit on by switched SW1 to on position conduct the DC power (3V, batteries) , Insert jack the audio signals are modulated by R5& C3 after R9 & R10,then be amplified

signals are given off by antenna after C4.modulatina net if C10.C9.L1 and L7 .

Power LED is D1 as the unit working indicator , R1 & C1 were used for filter .

### **2. In receive mode :**

Power on unit by tuning volume with switch SW3 to conduct the DC power ( 3 V , Batteries),SC1088 as the RF receiver and decoder , signal via C11 into Pin11 and after

svstem via c7 .C15 +VR1 .

SW 1 function is frequency step selector ( broadcast station selectable change )

SW 2 function is reset the station select and make tuning again .

Q2, Q1 combined as signal driving amplifier,L3 & L4 are the choke coil .

Speaker is not showing out on drawing but built in .

J 1 is line out for earphone accessory used by consumer selected .

3. Receive Antenna and ground circuitry .

Q4 to amplifering and into IC -1088 Pin11 as item 2 description .