

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. modulating 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

system 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 amplifying and into IC -1088 Pin11 as item 2 description .