

Theory of Operation

Receiver

Power On

SW1 push to ON Position , The Power is DC 18V by Adapter or DC 9.6V by Battery.)

RF VCO

RF Signal from the ANT to FL1 , filter to Q2 & mix the Q3 , DR1 RF Local Oscillator, transmit the IF Signal to U1.

IF Amplified & 2nd Oscillator

U1 PIN 18 receive the IF Signal, mix PIN 22 Local Oscillator & transmit the Signal to U1 PIN 13. U1 PIN 5, 6 transmit the Stereo Audio Signal from Audio Amplified.

Frequency Adjust

VR2 adjust the Voltage to control VD1 to change U1 PIN 22 Local Oscillator to select the Correct Channel.

Audio Amplified

U2 PIN 1, 2 receive the Audio Signal from PIN 5, 7 to SP1, SP2.

Modulation Type and Antenna Type

The product modulation type is FM, Antenna type is internal Antenna.