

Operation Description of AM/FM/TV/Weather Band Stereo Radio

The product is a Stereo Radio with AM/FM/TV and Weather Band Digital Tuner and to powered by one alkaline “AAA” battery.

There are front, side and back cabinet and tuner display for the function control and indicator. (details see user manual)

Refer to circuit design, the circuit description is listed as follows:

- IC1, Q1, Q4, Q5 and associated circuit act as muting circuit for the AM/FM/TV and weather band RF/ OSC/IF amplifier and stereo decoder.
IC1 feature: Built-in AM/FM/TV/Weather Band Digital Tuner
 - FM/TV/WB IF :10.7MHz
 - AM IF :4510kHz

BAND	Receiving Freq.	OSC Freq.
AM	530-1710kHz	980-2160kHz
FM	87.5-108MHz	98.2-118.7MHz
TV CH2	59.750MHz	70.450MHz
TV CH3	65.750MHz	76.450MHz
TV CH4	71.750MHz	82.450MHz
TV CH5	81.750MHz	92.450MHz
TV CH6	87.750MHz	98.450MHz
TV CH7	179.750MHz	190.450MHz
TV CH8	185.750MHz	196.450MHz
TV CH9	191.750MHz	202.450MHz
TV CH10	197.750MHz	208.450MHz
TV CH11	203.750MHz	214.450MHz
TV CH12	209.750MHz	220.450MHz
TV CH13	215.750MHz	226.450MHz
WB CH1	162.550MHz	173.250MHz
WB CH2	162.400MHz	173.100MHz
WB CH3	162.475MHz	173.175MHz
WB CH4	162.425MHz	173.125MHz
WB CH5	162.450MHz	173.150MHz
WB CH6	162.500MHz	173.200MHz
WB CH7	162.525MHz	173.225MHz

- IC2, Q6, Q7, Q8 and associated circuit act as a programmable microprocessor to control tuner, keyboard and LCD display.
- IC3, Q2, Q3 and associated circuit act as Audio amplifier.