T-463 'X' Technical Description.

T463 AM/FM/WEATHER ALERT RADIO FEATURE INSTRUCTION

1.) CONSTRUCTION

a.) 120V AC power or 1.5V X 5 battery power .

b.) LCD 12 hours clock with alarm sound (selectable out put : weather , radio , sound when alarm on) .

c.) Nature sound (4 difference sounds).

d.) AM/FM radio .

e.) Narrow band weather receiver .

2.) Operation :

a.) AC power and 7.5V battery use blocking diode to 5V regulator for CPU .

b.) Cloak chip U6(NT6612) used 32.768KHz crystal , and out put control sound chip to change sound out put and DC power on off interface with radio and weather .

c.) CPU U7(W523S) 4 sound out put and control output interface with U3 .

d.) AM/FM radio U4(TA2003) is AM RF Mixer convert to 455KHz IF AMP and detect IF signal to audio , FM RF AMP and Mixer convert to 10.7MHz IF AMP and quadrature detect to audio .

e.) Weather 162.4MHz ~162.55MHz , CPU U3(KS57C0404) is control PLL U2(TSA5520) for 7 Channel select by manual and detect 1050Hz weather alert signal come form receiver to indicate flash LED and control sound chip to sound speech if switch is selected .

U1(MC13135) is dual convert narrow band receiver first form RF mixer convert to 10.7MHz to IF AMP second convert to 455KHz to IF AMP to Detector to audio and 1050Hz filter .