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No 43329

Operational Description of model CRD840WN

1. Weather band Receiver.

Weather band signal passed from antenna into RF amplify Q401 to amplify the input signal.

Local oscillation frequency is derived by means of coil and capacitor. So the location oscillation can be changed from

162.15MHz to 162.80MHz which depend on the weather band SWITCH S403 1---7 CH F

Both weather band signal and local oscillation frequency will feed to the MIXER Q402, Q403 T!) to generate 450KHZ IF signal..

The 450KHz IF signal will be amplifier and feed to AM demodulated by demodulator circuit formed by IC401, T403 then pass to IC301.

(AM IF amplifier and AM detector) and then pass to AUDIO amplifier (IC302) then to output speaker.

2. CD and Real time controller.

The CPU (IC203) has 75KHz crystal oscillator (X202) to generate real time clock .It also including LED driver to show real clock, alarm time on the ALERT LED (D426) panel. At the unit is powered by

AC power. The CPU supply VOLTAGE is regulated by Q317 and Z302.

CD music is pick up by CD laser diode and pass through IC202 to CPU IC201 for signal decoding change digital signal to audio signal and through IC302 to output speaker.