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# Circuit description of Weather Band radio (Model: JHD910)

Weather Band RF signal goes from antenna to Q901 for amplification and enters to pin 24 of IC901 LA8670M which is the input pin of 1st mixer.

Crystal XF901 30.355 MHz and Q902 generates 1st oscillator frequency of 151.775 MHz which is selected by T902 and enters to IC901 PIN3 through C918, this oscillation frequency is mixed with the RF signal.

The 1st I.F. (10.7MHz) is output from pin 22 of IC901 and selected by T904, it passes the ceramic filter CF901 and enters to pin 20 of IC901 which is the input of 2nd mixer.

T903 and D901generates 2nd oscillator frequency of 11.155 MHz which is voltage-controlled by the DC voltage of pin 3 of CN901; this voltage is sent from the CPU PLL output.

Pin 8 of IC901 outputs 2nd I.F. (455KHz) and passes to ceramic filter CF902, the 2nd I.F. is amplified by the Q916 and goes into pin 10 of IC901.

After the internal amplification and demodulation, pin 17 of IC901 outputs the audio signal to transistor Q905 for amplification and connected to the subsequent audio circuitries.