Description of the Electrical Circuitry
Hand Held Transceiver   N99J447R

A) When one or more of the buttons of the Transceiver is pressed:
1) When one or more of I, II, III or IV buttons is/are pressed, the button instruction is transferred to U2 (CPU).
2) U2 (CPU) transfers the ID code and button instruction to Q7.
3) Q7 generates the radio frequency carrier of 447.7 MHz that was modulated by the data from U2.
4) The signal from Q7 is amplified by the Transistor Q5, Q6, then sent to Antenna T1.
B) When a signal enters from the antenna:
1) U2 (CPU) monitors the 447.7 MHz through Antenna T1.
2) When U2 receives 447.7 MHz signal, the signal is amplified by Transistor Q1, Q2, then sent to the Mixer Transistor Q3.
3) Q8 sends self-generated frequency 455 MHz to Mixer Transistor Q3.
4) Transistor Q3 heterodynes the signals from Q1,2 to generate 21.4Mhz that is sent to Intermediate Frequency IC, U1.
5) Intermediate Frequency IC demodulate the signal to digital code and then send it to U2 (CPU).
6) The CPU recognizes the ID and instruction, then activates the Beeper Buz1 and indicates the information on the LCD1.