Description of the Electrical Circuitry

Hand Held Transceiver O44J2000R

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 U201 (CPU).

2) U201 (CPU) transfers the ID code and button instruction to Q108 through R125.

3) Q108 generates the radio frequency carrier of 447.7 MHz that was modulated by the data from U201.

4) The signal from Q108 is amplified by the Transistor Q107, Q106, then sent to Antenna T1.

B) When a signal enters from the antenna:

1) U201 (CPU) monitors the 447.7 MHz through Antenna T1.
2) When U201 receives 447.7 MHz signal, the signal is amplified by Transistor Q104, Q102, then sent to the Mixer Transistor Q103.
3) Q105 sends self-generated frequency 469.1 MHz to Mixer Transistor Q103.
4) Transistor Q103 heterodynes the signals from Q102 and Q105 to generate 21.4Mhz that is sent to Intermediate Frequency IC, U101.
5) Intermediate Frequency IC demodulate the signal to digital code and then send it to U201 (CPU).
6) The CPU recognizes the ID and instruction, then activates the Beeper Buz1 and indicates the information on the LCD1.