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(A) ENTERCOM Main Unit Circuit Description

Q1 is the RF oscillator while transmitting and the RF amplifier and detector while receiving. Q2, Q3 and Q4 are the audio amplifier for both transmitting and receiving to driver speaker or as sound receiver amplifier. T2 is modulation transformer for audio signal modulating RF part. Y1 is crystal for transmitting frequency control. S1 is transmitting and receiving function exchange. SPK is speaker for received sound re-generation or a sound receiver while transmitting. U1 is "Doorbell" sound generator IC and recording function control. U2 is recording IC for sound recording and playback. Q9 and Q10 are audio amplifiers for Doorbell sound and recorded message playback. Q6 is voltage regulator to provide stable voltage for U1, U2 and IC. M1 is microphone for message recording or sound receiver while walkie-talkie transmission function enable. VR1 is volume control of walkie-talkie part. D3 is message recorded indication. L1 is matching coil for antenna. ANT is the antenna for radio wave propagation and reception. Operation power is from 9V battery via power switch.

(B) ENTERCOM Phone Unit Circuit Description

Q1 is RF oscillator while transmitting and RF amplifier and detector while receiving. Q2, Q3 and Q4 are as audio amplifier while both transmitting and receiving to driver speaker or as sound receiver amplifier. T2 is the modulation transformer for audio signal modulating RF part. Y1 is the crystal for transmitting frequency control. S1 is transmitting and receiving function exchange. VR1 is volume control. SPK is speaker for received sound re-generation. L1 is matching coil for the antenna. ANT is antenna for radio wave propagation and reception. Operation power is from 9V battery via power switch.

