

DESCRIPTION OF ELECTRICAL CIRCUITRY

BASE UNIT:

A) WHEN A BELL SIGNAL ENTERS FROM TEL LINE

1) The bell is inputted to pin 17 and 19 of IC7(DSP) and detected by inside circuit.

2) A portable phone receives a bell from the base station.

When the portable phone is switched from the STANDBY to TALK, the base station receives a carrier modulated by data indicating the switch from STANDBY to TALK.

The data demodulated at the base station is inputted to IC7, and passes through Q3 to make the circuit relay, then, release the muting and enables talk.

B) WHEN A LINE LOOP IS MADE BY A PORTABLE PHONE

- 1) When the operator of the portable phone switches STANDBY to TALK, the TALK mode data enters the base station and is demodulated at the RF Unit of the base station, and is inputted of IC7.

C) RECIEVER UNIT OPERATION

- 1) A signal is received by the antenna, and inputted to the pin 2 and 3 of IC7 through DA802 and DA801.
- 2) The received signals are mixed by IC7 to obtain digitized audio signal.
- 3) This audio signal is transmitted to the telephone line by IC7.

D) TRANSMISSION UNIT OPERATION

- 1) An audio signal from the line passes through the interface transistor (Q5).
- 2) The audio signal is inputted to pin 21 of IC7.
- 2) This audio signal is coded by IC7.
- 3) The modulated signal from pin 78 and 79 of IC7 goes to a selected antenna through DA801 and DA802.