TECHNICAL DESCRIPTION

DATE:APR. ,1998

KEYLESS ENTRY SYSTEM

TECHNICAL DESCRIPTION OF TRANSMITTER

THIS SECURITY CODE WHICH CONTROLS THE MAIN UNIT IS PRODUCED BY THE ENCODER IC(AND FED INTO THE SAW(SURFACE ACOUSTIC WAVE) RESONATOR.

THE SAW RESONATOR IS TRANSMITTER CARRIER OSCILLATOR FOR SUPERIOR FREQUNCY STABILITY. THE CARRER IS MODULATED AS AN AMPLITUDE SHIFT KEYING(ASK) METHOD BY THE INPUTED DIGITAL SECURITY CODE. THE OUTPUT FROM SAW RESONATOR IS FED INT AMPLIFIER(Q1). THIS AMPLIFIED SIGNAL IS FED INTO THE LOOP ANTENNA ON THE PCB(PCB PATTERN ANT). THIS UNIT EMPLOYS 2 PUSH BUTTONS SWITCHES THAT WILL ACTIVATE OR DEACTIVATE THE ALL CIRCUIT.

A BLOCK DIAGRAM AND CIR CUIT DIAGRAM ARE ATTACHED.

BLOCK DIAGRAM DESCREPTION FOR TX UNIT.

1. ENCODER CIRCUIT
   THIS CIRCUIT MAKES PRESETTED CODE

2. FREQUENCY OSCILLATOR AND MODULATOR
   THIS CIRCUIT MODULATES THE CODE FROM ENCODE BY THE MODULATION

3. AMPLIFIER
   THIS CIRCUIT AMPLIFIER THE MODULATORED CODE.

4. BATTERY
   BATTERY SUPPLIES ELECTRIC POWER FOR ALL COMPONENTS ON TX UNITS.

FIGURE 1: KEYLESS ENTRY (TX UNIT)BLOCK DIAGRAM