

## TECHNICAL DESCRIPTION OF TRANSMITTER

The Security Code which controls the main unit is produced by the ENCODER IC(U1) and fed into the SAW(Surface Acoustic Wave) resonator(x1).

The SAW resonator is transmitter carrier oscillator for superior frequency stability.

The carrier is modulated as an Amplitude Shift Keying(ASK) method by the inputted digital security code. The output from SAW resonator is into amplifier (Q1).

This amplified signal is fed into loop antenna on the PCB (PCB pattern antenna).

This unit employs 4 push buttons switches that will activate or deactivate the all circuit.

A BLOCK DIAGRAM AND CIRCUIT DIAGRAM ARE ATTACHED.

### BLOCK DIAGRAM DESCRIPTION FOR TX UNIT.

#### 1. ENCODER CIRCUIT

This circuit makes preset code.

#### 2. FREQUENCY OSCILLATOR AND MODULATOR

This circuit modulates the code from encode by modulation.

#### 3. AMPLIFIER

This circuit amplifies the modulated code.

#### 4. BATTERY

Battery supplies electric power for all components on TX units.

FIGURE 1: CAR ALARM (TX UNIT )BLOCK DIAGRAM

