

(ALA-550) Operational Description

The ADVANCE SECURITY INC. Model: ALA-550 (referred to as the EUT in this report) is a Receiver of car alarm security system which offers wireless remote control, ideal for use in vehicle security system to activate the function of center door lock control system and car searching except the alarm system.

A major technical descriptions of EUT is described as following:

A). Operation Frequency: 433.92 MHz

B). Antenna Designation: Non User Replaceable(Fixed)

C). Type: Super regenerative Receiver

D). Power Supply : DC 12V, Battery Operated

Fundamental Frequency	433.92MHz
Power Source	12V Battery
Transmitting Time	Periodic \leq 5 seconds
Associated Receiver	FCC DOC

The radio frequency car-alarm is a system that it controllers locking(arm) and unlocking(disarm) the door of vehicle by wireless remote controller. This system consists of transmitter and receiver.

The receiver(EUT) is fixed inside the vehicle and powered 12V from car battery. It works intermittently to prevent the battery exhaustion and check the vehicle status. It is designed to operated on a single fixed frequency 433.92MHz by frequency modulation. I t runs continuously to receive the signals completely, when the receiving module in receiver detects several synchronous codes, unique identification code, security code and function code transmitted from transmitter. After receiving the signal, the 8bit CPU in receiver decides which operation will be performed. And then driving circuit in receiver performs selected operations by pressing the button of the remote transmitter.

All tuning and verification are performed by the manufacturer and there are no adjustments which can be made by the user. External ground is the chassis of vehicle and receiving antenna is fixed on enclosure of the receiver.