

Title :

**Information Document**

NO. : SCE-0209

Date : 16. DEC. 2002

1. GENERAL

1.1. Make

**Shinchang Electrics Co.,Ltd.**

1.2. Model No.

- Transmitter : SAKS-01Tx

- Receiver : SAKS-01Rx

1.3. Name and address of manufacturer

**Shinchang Electrics Co.,Ltd.**

**734-2, Wonshi-Dong, Ansan-Si, Gyungki-Do, Korea.**

1.4. Name and address of assembly plant

**Shinchang Electrics Co.,Ltd.**

**734-2, Wonshi-Dong, Ansan-Si, Gyungki-Do, Korea.**

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2. PRODUCT SPECIFICATION

2.1 Scope of Remote Keyless Entry & ATAS system.

2.1.1 KEY PART : TRANSMITTER is inside of the REMOTE KEY, and it sends the rolling code to the receiver by radio frequency.

2.1.2 Receiver : It receives the rolling code and decodes that, thereafter receiver drives the actuator.

2.2 Specification

2.2.1 Transmitter

Item	Specification
Rated supply voltage	DC 3V
Operating voltage range	DC 2.8 ~ 3.2V
Operating temperature range	-20 ~ +75℃
Storage temperature range	-40 ~ 85℃
Modulation	AM
Frequency	315.0000MHz
Code	Rolling Code(Hopping Algorithm)
Battery life	2 Year(10Times/Day)(Lithium 3V 1EA)

2.2.2 Receiver

ITEM	SPECIFICATION
Rated Supply Voltage	DC 12V
Operating Voltage	DC 9 ~ 16V
Operating Temperature	- 40 ~ + 80℃
Storage Temperature	- 40 ~ + 85℃
Standby Current	5.0mA

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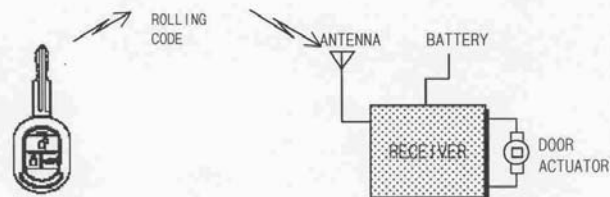
### 3. USER MANUAL

#### 3.1 Name : ATAS system

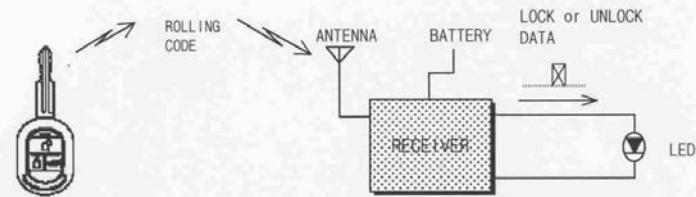
- This system is ATAS and includes RKE.
- RKE & ATAS system is intended for auto door lock or unlock in vehicle.
- This ATAS system is to be installed on motor vehicles as \*OE item.
- \* OE : Original Equipment.
- \* ATAS : Anti Theft Alarm System.
- \* RKE : Remote Keyless Entry.

#### 3.2 System construction

##### 3.2.1 System in vehicle



##### 3.2.1 System for test



\* Through use of the LED, operating state is displayed by LED.  
LED 'ON' means that actuator is operated by door lock or unlock output signal.

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### 3.3 Operating summary

- ① TRANSMITTER's button is pushed.
- ② TRANSMITTER sends the code by radio frequency.
- ③ RECEIVER gets the code and decodes it.
- ④ Receiver judges the code whether it is right code or not.
- ⑤ Receiver checks door lock or unlock state.
- ⑥ Receiver drives the actuator.

#### 3.3.1 LOCK & UNLOCK

If LOCK or UNLOCK button is pushed for less than 1 sec, then TRANSMITTER sends the LOCK or UNLOCK DATA.

#### 3.3.2 TRUNK

If TRUNK button is pushed for more than 0.6 sec, then TRANSMITTER sends the 'TRUNK OPEN' DATA

### 3.4 Caution

- ① Danger of explosion if battery is incorrectly replaced.
- ② Replace only with the same or equivalent type recommended by the manufacturer.
- ③ Dispose of used batteries according to the manufacturer's instructions.

#### **WARNING**

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operations.