

**Title :**

**Information Document**

**NO.**

**Date**

SHT/SHTS : 2/11

0. GENERAL

0.1. Make

**SEOYON ELECTRONICS Co.,Ltd.**

0.2. Model No.

**- Transmitter : 3BT - Remote Keyless Entry Transmitter  
SYEC3TX1804**

**4BT - Remote Keyless Entry Transmitter  
SYEC4TX1804**

**- Receiver : Body Control Module**

0.3. Name and address of manufacturer

**SEOYON ELECTRONICS Co.,Ltd.**

**100, Saneop-ro 156beon-gil, Gwonseon-gu, Suwon-si, Gyeonggi-do, Republic  
of Korea**

0.4. Address of assembly plant

**SEOYON ELECTRONICS Co.,Ltd.**

**100, Saneop-ro 156beon-gil, Gwonseon-gu, Suwon-si, Gyeonggi-do, Republic  
of Korea**

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**2. PRODUCT SPECIFICATION**

**2.1 Scope of RKE, Body Control Module**

2.1.1 Folding TX KEY : It has the RKE functions.  
Data is transmitted with radio frequency

2.1.2 BCM(RX) : ECU is control the whole BCM funtion with RKE

**2.2 SPECIFICATIONS**

**2.2.1 Transmitter**

ITEM	SPECIFICATION
Rated supply voltage	DC 3V
Operating voltage range	DC 2.5 ~ 3.2V
Operating temperature range	- 10 ~ + 60℃ with Battery
Storage temperature range	- 30 ~ + 85℃ without Battery
Modulation	FSK
Frequency	433.92MHz
Code	Rolling Code(Hopping Algorithm)
Electric field strength	10mW (433.92MHz)
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	- 30 ~ + 80℃
Max Humidity	95%
Standby Current	Below than 5.5mA (in alarm setting condition)

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## 2.3 Operating summary

### -RKE

- 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, trunk state.
- ⑥ RECEIVER drives the actuator.

### 2.3.1 LOCK & UNLOCK

- ① If LOCK or UNLOCK button is pushed for less than 1 sec, then TRANSMITTER sends the LOCK or UNLOCK DATA.
- ② If TRUNK button is pushed for more than 1 sec, then TRANSMITTER sends the TRUNK DATA.
- ③ If PANIC button is pushed for more than 1 sec, thed TRANSMITTER sends the PANIC DATA.

## 2.4 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.

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### 3. USER MANUAL

#### 3.1 ITEM : Body Control Module

- This system is BCM and includes RKE.
- RKE in BCM system is intended for auto door lock or unlock or TRUNK in vehicle.
- This BCM system is to be installed on motor vehicles as \*OE item.

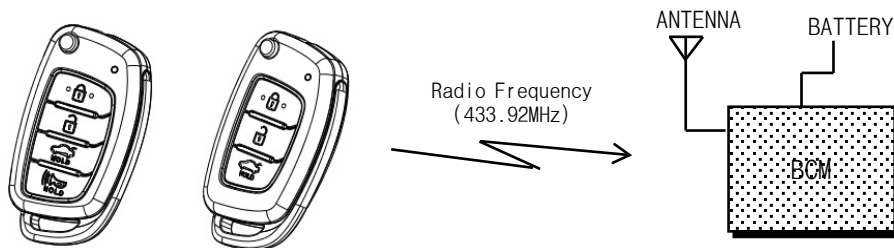
\*OE : Original Equipment.

\*BCM : Body Control Module

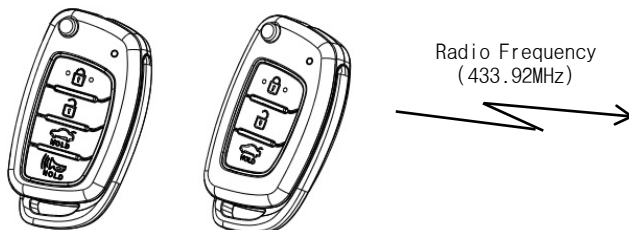
\*RKE : Remote Keyless Entry.

#### 3.2 SYSTEM CONSTRUCTION

##### 3.2.1 SYSTEM IN VEHICLE



##### 3.2.2 SYSTEM FOR TEST



① if press button on the transmitter, RF signal is transmitted and turns on the LED

\* It shows the status of operation through the LED used.

# Class B

## **FCC Information to User**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **Caution**

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**FCC Compliance Information** : 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 operation