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| <b>Title :</b><br><br><b>Information Document</b>                                                            | <b>NO.</b><br><br><b>Date</b> |
| SHT/SHTS : 2/11                                                                                              |                               |
| 0. GENERAL                                                                                                   |                               |
| 0.1. Make                                                                                                    |                               |
| SEOYON ELECTRONICS Co.,Ltd.                                                                                  |                               |
| 0.2. Model No.                                                                                               |                               |
| - Transmitter : Remote Keyless Entry Transmitter<br>SYEC4TX1907                                              |                               |
| - Receiver : Intergrated Body control Unit                                                                   |                               |
| 0.3. Name and address of manufacturer                                                                        |                               |
| SEOYON ELECTRONICS Co.,Ltd.<br>100, Saneop-ro 156beon-gil, Gwonseon-gu, Suwon-si, Gyeonggi-do, Republic of K |                               |
| 0.4. Address of assembly plant                                                                               |                               |
| SEOYON ELECTRONICS Co.,Ltd.<br>100, Saneop-ro 156beon-gil, Gwonseon-gu, Suwon-si, Gyeonggi-do, Republic of K |                               |

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**Date**

SHT/SHTS : 3/11

**2. PRODUCT SPECIFICATION**

**2.1 Scope of RKE, Intergrated Body control Unit**

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

**2.1.2 IBU(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 ~ 3.3V                       |
| Operating temperature range | - 10 ~ + 60℃ with Battery           |
| Storage temperature range   | - 30 ~ + 80℃ 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 5.5uA<br>(in alarm setting condition) |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |
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| <b>Title :</b><br><br><b>Information Document</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>NO.</b><br><br><b>Date</b> |
| <div data-bbox="1201 365 1447 400" data-label="Text"> SHT/SHTS : 4/11 </div> <div data-bbox="213 448 612 490" data-label="Section-Header"> <h2>2.3 Operating summary</h2> </div> <div data-bbox="316 495 400 533" data-label="Section-Header"> <h3><u>-RKE</u></h3> </div> <div data-bbox="316 535 1131 786" data-label="List-Group"> <ol style="list-style-type: none"> <li>① TRANSMITTER's button is pushed.</li> <li>② TRANSMITTER sends the code by radio frequency.</li> <li>③ RECEIVER gets the code and decodes it.</li> <li>④ RECEIVER judges the code whether it is right code or not.</li> <li>⑤ RECEIVER checks door lock or unlock, trunk state.</li> <li>⑥ RECEIVER drives the actuator.</li> </ol> </div> <div data-bbox="213 916 569 954" data-label="Section-Header"> <h3>2.3.1 LOCK &amp; UNLOCK</h3> </div> <div data-bbox="316 1003 1189 1341" data-label="List-Group"> <ol style="list-style-type: none"> <li>① If LOCK or UNLOCK button is pushed for less than 1 sec, then TRANSMITTER sends the LOCK or UNLOCK DATA.</li> <li>② If TRUNK button is pushed for more than 1 sec, then TRANSMITTER sends the TRUNK DATA.</li> <li>③ If PANIC button is pushed for more than 1 sec, thed TRANSMITTER sends the PANIC DATA.</li> </ol> </div> <div data-bbox="213 1556 440 1594" data-label="Section-Header"> <h2>2.4 Caution</h2> </div> <div data-bbox="316 1644 1457 1769" data-label="List-Group"> <ol style="list-style-type: none"> <li>① Danger of explosion if battery is incorrectly replaced.</li> <li>② Replace only with the same or equivalent type recommended by the manufacturer.</li> <li>③ Dispose of used batteries according to the manufacturer's instructions.</li> </ol> </div> |                               |

Title :

Inform Information Document

NO.

Date

SHT/SHTS : 5/11

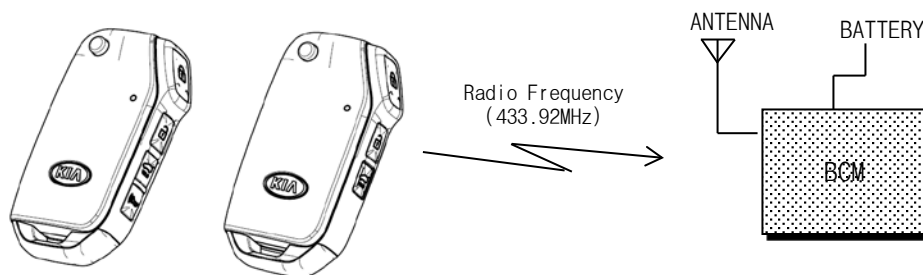
### 3. USER MANUAL

#### 3.1 ITEM : Remote Keyless Entry Transmitter

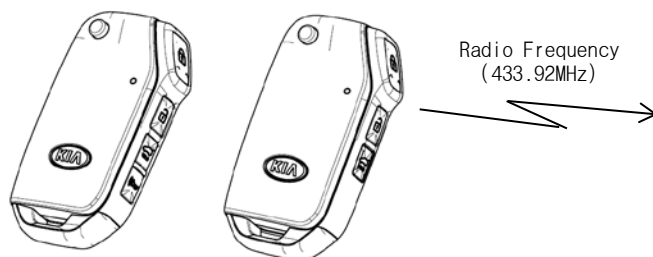
- This system is IBU and includes RKE.
  - RKE in IBU system is intended for auto door lock or unlock or TRUNK in vehicle.
  - This IBU system is to be installed on motor vehicles as \*OE item.
- \*OE : Original Equipment.  
\*IBU : Body Control Module  
\*RKE : Remote Keyless Entry.

#### 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

## IC

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.