

4. USER MANUAL

4.1 ITEM : FOB LF system

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

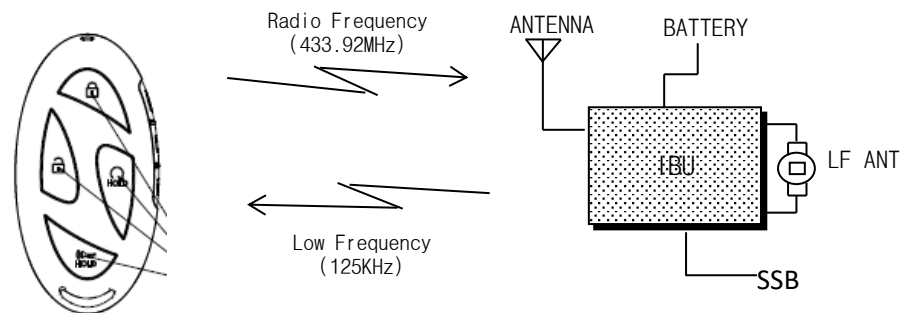
*OE : Original Equipment.

*IBU : Integrated Body control Unit

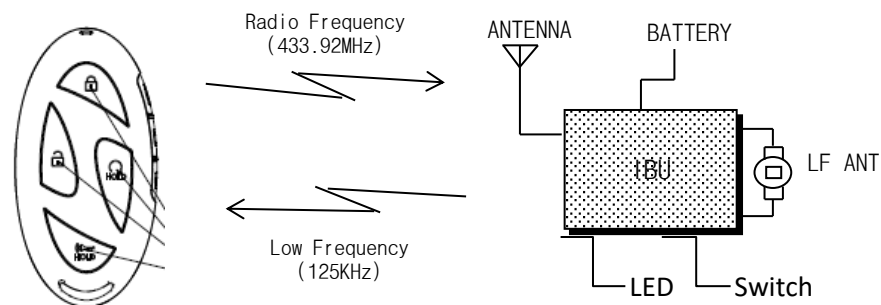
*RKE : Remote Keyless Entry.

4.2 SYSTEM CONSTRUCTION

4.2.1 SYSTEM IN VEHICLE



4.2.2 SYSTEM FOR TEST



- ① Connect the 12V power supply and turn on the switch
- ② Pressing the white tact switch, LF signal is transmitted and FOB LED and IBU LED is flahes
- ③ When the tact switch is pressed repeatively, FOB LED and IBU LED is flahes, repeatively.

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

6. Product Information

6.1 Configuration of smart key system

6.1.1 Fob (transmitter): Fob includes passive entry and passive start functions.
It uses a radio frequency and has a TP function for emergency start.

6.1.2 Smart key system (receiver): Controls RKE, passive entry, passive start functions.

6.2 Performance

6.2.1 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)

FCC warning statement:**15.19**

λ. 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.

15.105

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 or more 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.

15.21

- Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.
- This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.
- End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

FCC/ IC RF Radiation Exposure Statement:

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 5mm between the radiator & your body.

This device complies with FCC/ ISED radiation exposure limits set forth for an uncontrolled environment.

IC warning statement:**RSS-Gen Issue 4 8.4**

This device complies with Industry Canada's licence-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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Co-located

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.