

User Manual

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| Vehicle model CN7 Folding TX |  MOBASE ELECTRONICS | Page (SHT/SHTS) 1/11 |
| Drawing Wireless Design team | INFORMATION DOCUMENT NO. | |

Title : RELATING TO CE TYPE-APPROVAL
AS SEPARATE TECHNICAL UNIT
OF VEHICLE RF REMOTE KEYLESS ENTRY IN BODY CONTROL MODULE

목차

Information Document (5 sheets: Include cover)

Attachment 1 – System diagram (1 sheet)

Attachment 2 – Fob block diagram (1 sheet)

Attachment 3 – Schematic of fob (Each 1 sheet)

Attachment 4 – Layout of fob (1 sheet)

Attachment 5 – Part List (1 sheet)

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| Title : Information Document | NO. Date |
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| | SHT/SHTS : 2/11 |
| 0. GENERAL | |
| 0.1. Make | |
| MOBASE ELECTRONICS Co.,Ltd. | |
| 0.2. Model No. | |
| <ul style="list-style-type: none"> – Transmitter : MBEC3TX2004 – Transmitter : MBEC4TX2004 – Receiver : IBU(Intergated Body control Unit) | |
| 0.3. Name and address of manufacturer | |
| MOBASE ELECTRONICS Co.,Ltd. 100, Saneop-ro 156beon-gil, Gwonseon-gu, Suwon-si, Gyeonggi-do, Republic of Korea | |
| 0.4. Address of assembly plant | |
| MOBASE ELECTRONICS Co.,Ltd. 100, Saneop-ro 156beon-gil, Gwonseon-gu, Suwon-si, Gyeonggi-do, Republic of Korea | |

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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°C with Battery |
| Storage temperature range | - 30 ~ + 80°C 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°C |
| Max Humidity | 95% |
| Standby Current | Below than 5.5uA (in alarm setting condition) |

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SHT/SHTS : 5/11

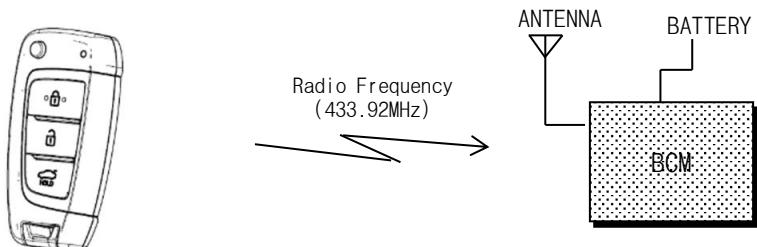
3. USER MANUAL - MBEC3TX2004

3.1 ITEM : Remote Keyless Entry Transmitter

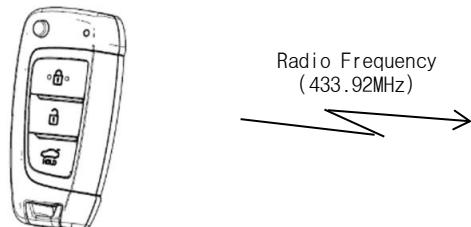
- This system is IBU and includes RKE.
- RKE in IBU system is intended for auto door lock or unlock or TRUNK in vehicle.
- This IBU system is to be installed on motor vehicles as *OE item.
- *OE : Original Equipment.
- *IBU : Body Control Module
- *RKE : Remote Keyless Entry.

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.

ANATEL Warning: Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.



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