



# YURA KEY-FOB Smart Key System Instructions

[Home](#) » [YURA](#) » YURA KEY-FOB Smart Key System Instructions 

## Contents

- [1 YURA KEY-FOB Smart Key System](#)
- [2 General Definition of Fob](#)
- [3 Classification](#)
- [4 Spare key operation](#)
- [5 Battery maintenance](#)
- [6 FCC STATEMENT](#)
- [7 Documents / Resources](#)
- [8 Related Posts](#)



**YURA KEY-FOB Smart Key System**



## General Definition of Fob

Smart key system represents a new concept of access control and immobilizer systems applied to vehicles. The user has a Smart Key Fob (hereinafter referred to as Fob) that can be recognized by the vehicle. Users can lock/unlock and start the vehicle without manipulating the mechanical key only by possessing the fob. Additionally, the vehicle can be locked/unlocked by the RKE function.

## Classification

- **Classification:** Description
- **Product name:** SMART KEY-FOB
- **Model name:** KEY ASSY-SMART FOB\_3E01
- **Operating temperature:** -10 °C ~ 60 °C
- **Rated Power supply:** 3Vdc (Battery)
- **EMI Classification:** Class B
- **Operating Frequency:** Tx:433.92Mhz, Rx:125kHz
- **Effective rated power:** 3mW (433.92Mhz)
- **Manufacturer:** YURA CORPORATION

## Operation modes

Mode	Description
IMMO	<p>Immobilizer transponder</p> <p>When the key is operating as an immobilizer transponder, the communication is done via a "contactless interface" depending on a magnetic coupling with the START/STOP button on the dashboard.</p>
RKE	<p>Remote keyless entry</p> <p>The key as a remote control unit to initiate actions on the vehicle such as lock, unlock door latches or testing the lights. The amount of telegrams are sent on the RF channel for each button activated which depends on a user action (a button pressing)</p>
PKE	<p>Passive keyless entry</p> <p>For passive key operation no user action on the key side is required. The trigger signal is delivered by the vehicle via an LF 125 kHz data telegram. When the key receives a valid LF message, it responds with RF telegrams.</p>

### Button functions

No.	Button	Function
1	Door Lock	<p>Activates door lock actuator of the vehicle</p> <p>By pressing the lock button of the Fob, the RKE Lock Request is transmitted. Timeout (TOlock) Stops transmission even if the button is still pressed after transmission.</p>
2	Door Unlock	<p>Releasing door lock actuator of the vehicle</p> <p>By pressing the unlock button of the Fob, the RKE Unlock Request is transmitted. Timeout (TOunlock) Stops transmission even if the button is still pressed after transmission.</p>
3	Light Test	<p>Testing the exterior lights before driving.</p> <p>By pressing the light test button of the Fob, the RKE PANIC Request is transmitted. timeout (TOpanic) Stops transmission even if the button is still pressed after transmission.</p> <p>To avoid unintended operation, keeping this button pressed for a while (1-2sec) to activate the function.</p>

### Spare key operation

When the fob doesn't work or the vehicle battery ran out, follow the process as

1. Detach the emergency key from the case while pressing the release button.
2. Release the door lock actuator by operating the mechanical spare key.
3. To store the emergency key back inside the smart key, insert it into the key hole on the case and push it in until it clicks into place.

Battery maintenance

When the fob doesn't work due to battery ran out, follow the process as

- 1. Detach the emergency key from the case first
- 2. Separate the case.
- 3. Remove the battery in use.
- 4. Insert a new battery and reassemble the case.

FCC STATEMENT

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.

**Caution:** Any changes or modifications to this device not explicitly approved by the manufacturer could avoid your authority to operate this equipment.  
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.  
This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC


[ISED]

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

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

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment.  
This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the ISED

Documents / Resources

	<p><a href="#">YURA KEY-FOB Smart Key System</a> [pdf] Instructions YR-FOB-3A01, YRFOB3A01, 2A8FF-YR-FOB-3A01, 2A8FFYRFOB3A01, KEY-FOB Smart Key System, Smart Key System, Key System</p>
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