

## SMART KEY EMULATOR “ISKRA- 3”

Software module “KIA (IBU10/20S)” v.05.12.23

### Capabilities of the “KIA (IBU10/20S)” software module:

- The “ISKRA-3” device can open, close or start the engine of a car equipped with an **IBU** unit even if all the keys are lost.
- The calculated **PIN code** for programming the key via the diagnostic connector is displayed.
- If you have an **OBD programmer “KKP” (KOREA KEY PROGRAMMER)**, you can program a new key directly from the ISKRA device.
- Intelligent data calculation algorithm.
- Ten memory cells.

### Supported models (KEYLESS GO equipped cars ONLY):

- MOHAVE (HM) 2019+
- SORENTO (MQ4) 2021+
- SOUL (SK3) 2020+
- SPORTAGE (NQ5) 2023+
- CARNIVAL (KA4) 22+
- Moreover, others equipped with the IBU.

### SCENARIO #1

(You **DO NOT KNOW** the car’s PIN code).

#### Work sequence:

1. Receive the **RF KEY FOB** and **RF KEY ID** radio signal from pressing the **OPEN** or **CLOSE** button on the key fob.
2. Receive a **COMFORT** signal from the car.
3. Receive the **KEYLESS GO** signal from the button on the door handle.

#### Available actions:

1. Emulation of **RF KEY FOB** - you can open and close car doors.
2. **KEYLESS GO** key emulation - you can open, close and start the car.
3. Program new key through the **OBD programmer “KKP”**.

#### Receiving of data:

1. Select– **KIA (IBU10/20S)** from the main menu.
2. Use the **LEFT** and **RIGHT** arrows to select an empty cell and press **RECEIVE** to switch the device to data reception mode.



3. Press **OPEN** or **CLOSE** on key fob. After the signal is successfully received, you will see **[ + ]** in **RF KEY FOB** and **RF KEY ID**.



*Note:*

To receive a radio signal from the **OPEN** or **CLOSE** buttons, you must be at **up to 20 meters** from the key fob.

4. Press **EMULATION** to emulate **KEY FOB**.



Note:

By pressing the **UP** or **DOWN** arrows, you can open and close the car via remote radio signal, just like from your original key fob.

5. To emulate the operation of a key using **KEYLESS GO**, you need to obtain additional data from the car.

**Simply select RECEIVE in the same cell, where you previously got the signal from EXACT car.**



- To receive the **COMFORT** signal – **ONLY** approach the car, if the car is equipped with this function, the signal will be received and recorded in the device.

Note: The vehicle **must be locked**. If car is **NOT** equipped with **COMFORT** option, you must use **BRUTEFORCE** function.

- To receive the **KEYLESS GO** signal, press the button on the car handle.

**Note:** Be careful if you record a **KEYLESS GO** signal from different car, the key emulation will not work, and you will have to obtain the **RF KEY** data again.

6. After all of the necessary data was obtained, you will get the following menu:



7. To emulate a key as **KEY FOB** and **KEYLESS GO** press **EMULATION**.



Note:

- By pressing the **UP** or **DOWN** arrows, you can open and close the car via the radio, just like with your own key fob.

- The **@** icon on the screen indicates that a **KEYLESS GO** request has been received from the vehicle.

**IMPORTANT!!! IF YOU SEE @ DURING PRESSING A BUTTON BUT NOTHING HAPPENS – SELECT DIFFERENT TYPE OF KEY (KEY#) BY PRESSING ARROWS < - > AND TRY ONE MORE TIME.**

- In this mode, the ISKRA-3 device will emulate original key.

Note:

- During key fob emulation via radio, the keystroke counter changes.

- You may need to perform a certain number of presses on the open or close button on the device in order to catch up with the runaway counter of the original key.

## SCENARIO #2

(You know the car's PIN code)

Work sequence:

1. Receive an **RF KEY ID** signal in the moment the key is brought to the car.  
*Important: The car must be equipped with the **COMFORT** function. You can verify this by receiving the **COMFORT** signal on the device, otherwise use **SCENARIO #1**.*
2. Receive a **COMFORT** signal from the car.
3. Receive the **KEYLESS GO** signal from the button on the door handle.
4. Enter the **PIN** code and calculate the data for emulation.

Available actions:

1. **KEYLESS GO** key emulation - you can open, close and start the car.
2. Programming a new key through the **OBD programmer "KKP"**.

Receiving of data:

1. Select – **KIA (IBU10/20S)** from the main menu.
2. Use the **LEFT** and **RIGHT** arrows to select an empty cell and press **RECEIVE** to switch the device to data reception mode.



3. To receive the **RF KEY ID** signal, you must be at **up to 20 meters** from the car now when the key is brought to it. The car's mirrors will open and **[ + ] RF KEY ID** will appear on the device screen.



*Note:*

*The car must be equipped with the **COMFORT** option. You can verify this by receiving the **COMFORT** signal on the device, otherwise use **SCENARIO #1**.*

4. To emulate the operation of a key using **KEYLESS GO**, you need to obtain additional data from the car. **To do this, select the **RECEIVE** mode in the cell where you have already received a radio signal from the **SAME** car.**



- To receive the **COMFORT** signal - approach the car; if the car is equipped with this function, the signal will be received and recorded in the device.

*Note: The vehicle **must be locked**.*

- To receive the **KEYLESS GO** signal, press the button on the car door.

*Note: Be careful if you record a **KEYLESS GO** signal from different car, the key emulation will not work and you will have to obtain the **RF KEY** data again.*

5. Select **ENTER PIN** and enter the car's PIN.



Note: You may obtain PIN from here: [www.mk3.com](http://www.mk3.com).

6. After all the necessary data was obtained you will get the following menu:



7. To emulate a key as **KEYLESS GO** press **EMULATION**.



Note:

- The @ icon on the screen indicates that a **KEYLESS GO** request has been received from the vehicle.

- In this mode, the **ISKRA-3** device will emulate original key.

### OBD-key programmer "KKP" (KOREA KEY PROGRAMMER)

- To program a new key, connect the "**KKP**" OBD programmer to the "**ISKRA-3**" device using a **USB type C** - **USB type B** cable.
- Option **SEND PIN TO OBD** will appear on the screen, along with a car's PIN. Press on it to write **PIN** into "**KKP**" and program new key into car.



- Also on the main screen, an additional **OBD KEY PROG** menu will appear where you can select the necessary actions.



- For additional information, read the **OBD programmer "KKP"** manual.