KOREA KEY PROGRAMMER (KKP-2)

FW 16.11.25 KHG2.1

The **KKP-2** device is designed to program keys to **KIA**, **HYUNDAI** and **GENESIS** vehicles manufactured from 2018 to the present day. Only Keyless Go systems are supported in this version, others will be added with the update. **Added support for the new version of encryption used in I.B.U. since 2023. This update is available for the KKP-1 device.**

There are two operating modes for the device:

1. By entering the PIN CODE to write the key.
2. The device automatically receives the PIN CODE from the vehicle's IBU/SMK units.

THE OPERATING MODES OF THE DEVICE ARE SWITCHED USING A PIN.EXE AN EXECUTABLE PROGRAM THAT IS LOCATED INSIDE THE DEVICE. JUST CONNECT YOUR DEVICE TO A PC TO ACCESS THE PROGRAM.

About device:

- The device works offline and does not require an Internet connection.
- No PIN required for the vehicle's IBU/SMK units.
- Fast work speed.
- Recording up to four keys is supported.

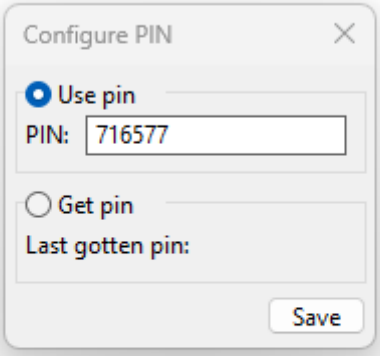
The device is not intended for criminal use!

PIN extracted automatically (Only for Keyless Go equipped cars):

CARMAKER	MODEL	CODE	PRODUCTION	ECU
KIA	MOHAVE	HM	2019+	IBU
	SORENTO	MQ4	2021+	IBU
	SPORTAGE	NQ5	2022+	IBU
	CARNIVAL	KA4	2021+	IBU
	SOUL	SK3	2019+	IBU
	OPTIMA	JF	2018-2020	SMK
	CARNIVAL	YP	2015-2020	SMK
HYUNDAI	SANTA FE 4 (*)	TM	2018-2023	IBU
	TUCSON 4 (*)	NX4	2020+	IBU
GENESIS	GENESIS G80	DH	2016-2020	SMK

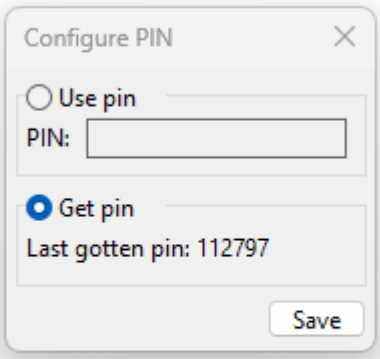
** - some versions of IBU units allow getting the PIN code.*
Full support for the listed vehicles is not guaranteed.

MODE-1: Enabling "PIN to device" mode:



1. Request a PIN-CODE according to the VIN of the car from an authorized dealer or calculating using the ISKRA-3 device.
2. Connect your device to a USB port *on a computer running Windows 10 or 11.*
3. The disk "BOOTLOADER" will appear in the system. Open it and run the program PIN.exe
4. In opened window, enter the PIN from the car and click SAVE.
5. Disconnect the device from USB.
6. The device is ready to program the key.

MODE-2: Enabling the "Get PIN CODE" mode:



1. Connect your device to a USB port on a computer running Windows 10 or 11.
2. A BOOTLOADER disk will appear in the system. Open it and run the PIN.exe utility
3. In the window that opens, select the Get pin option and click SAVE.
4. The Last gotten pin line contains the last PIN code received from the car.
5. Disconnect the device from USB.
6. The device is ready to program the key.

Note:

- *Obtaining a PIN CODE takes from a few seconds to several minutes, depending on the version of the BCM unit.*
- *The automatic PIN code acquisition function only works on KIA vehicles equipped with IBU/SMK units. For other vehicles, you may enter the PIN CODE manually (MODE-1).*

Obtaining a PIN from a vehicle or checking a known PIN:

1. Select the desired device mode (MODE 1 or MODE 2).
2. If necessary, wake the vehicle by pressing the START button.
3. Insert the device into the OBD port.
4. The RED LED on the device will light, indicating power is present in the OBD port.
5. The device will establish a connection with the vehicle's electronic units and begin operating in the selected mode; the GREEN LED will flash.
6. When you hear a short beep, the PIN is correct and accepted, and the vehicle is ready for key programming.
7. After 5 seconds, the key programming procedure will terminate with error 7. No changes will be made, and the keys will not be erased from the vehicle.
8. Connect the device to the PC and run the PIN.exe program. The received PIN-CODE will be indicated in the Last gotten pin field.

How to program a key:

1. Select the desired device mode (MODE 1 or MODE 2).
2. If required, wake up the car by pressing the START button.
3. Insert device into OBD.
4. The RED LED on the device will light up, indicating that there is power in the OBD connector.
5. The device will establish a connection with the vehicle's electronic components and start working according to the selected mode, at this moment the GREEN LED will flash.
6. When you hear a short beep - PIN CODE accepted and the car is ready for key programming, **immediately press the START button WITH the KEY and KEEP IT PRESSED!!!**
7. When you hear a beep-beep - program the second key, then the third and fourth, respectively.
8. To interrupt the programming procedure, apply the same key again instead of a new one or wait 5 seconds to complete the procedure. If you program all possible keys (3 or 4 depending on the vehicle), the procedure will end automatically with the last key.
9. When the programming procedure is successfully completed, you will hear a long BEEEEP and the GREEN LED will light up.

Note:

- ***During programming, hold the key as shown in the picture, otherwise some of the data may not be written to the key correctly and key will be damaged.***
- *Only 5 seconds are given to program each key. Keep them ready. If time has been expired, repeat the key programming procedure from beginning.*
- *If you do not keep the key on the START button, after 5 seconds the key recording procedure will be interrupted with error 7. In this case, no changes will be made, the keys will not be erased. You can use this method to check a known PIN code or to obtain a PIN code.*
- *Only a new key or a used key from this exact vehicle can be programmed into a vehicle.*
- *In one session it is necessary to program all keys from this car. Unprogrammed keys will no longer work. Program them again.*
- *Always order keys by VIN or catalog to ensure key compatibility with the vehicle.*
- *Used keys from other vehicles cannot be reused.*
- *Some vehicles allow a maximum of 3 keys to be stored.*

Error indication:

Long beep + several short beeps, the number of **SHORT** beeps indicates the error number.

For example, if you hear BEEEEEP, BEEP, BEEP – this is error number 2 (the vehicle does not accept the applied key).

Error codes:

1. Incorrect PIN - Request the correct PIN using the vehicle's VIN from your dealer.
2. Wrong key - the key does not fit this car or used one. There are many refurbished Chinese keys on the market, such keys may not be suitable for the car.
3. The ignition is not turned off - turn off the vehicle ignition.
4. PIN CODE not found - search and decryption of ECU data is not supported or failed. Enter your PIN manually using the pin.exe utility (MODE-1).
5. Digital signature error – the digital signature was not accepted by the ECU. Contact support for an update.
6. Unknown error - different types of errors.
7. The time for applying the key to the START button has expired - go through the key learning procedure again. Disconnect and reconnect the KKP-2 to OBD again.

Updating your device:

1. Connect your device to a USB port on a computer running Windows 10 or 11.
2. A "BOOTLOADER" disk will appear in the system.
3. Send the info.txt file to support.
4. You will receive a file with the device firmware update (fw-…hex).
5. Copy the file to the "BOOTLOADER" disk.
6. The device will begin updating, and the RED LED will light.
7. After the update, the device will beep.
8. Safely disconnect device clicking “Disconnect device” icon
9. You can view the current device version in the info.txt file.