X-431 Key Programmer

User Manual

WARNING

Read this material before using this product. Failure to do so can result in serious injury.

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1 Product Profile

The X-431 Key Programmer can identify car key chips and generate various types of chip models from super remotes, read the remote control frequency of car keys, and generate remote control devices for different car models from various types of super remotes. It can not work alone; it needs to work together with the diagnostic tool compatible with the Key Programmer App.

1.1 What's Included

The following packing list is for reference purpose only. For different destinations, the accessories may vary. For details, please consult from the local dealer or check the packing list supplied with this tool together.

Name	Quantity	Description
Key Programmer	1	
USB A to Type C Converter	1	 Connect the key programmer to the diagnostic tool.
Super Chip	1	 Support the conversion of most car model chip types (including 8A, 8C, 8E, 4C, 4D, 4E, 48, 7935, 7936, 7938, 7939, 11/12/13 etc.), and support separate matching to achieve vehicle startup.

Key Chip Programming Cable	1	 Connect the remote key chip to the key programmer to perform wired programming.
The following keys can be applied in different situations according to actual requirements. It supports repeatable writing and batteries with button cell 2032 need to be installed while generating. LS NISN-01, LN PUGOT-01 and LE FRD-01 support wireless programming. Wired programming is applicable to LK VOLWG-01, which is not equipped with an anti-theft chip and needs to be used with an anti-theft chip (the key chip programming cable is required for wired programming).		
LS NISN-01	1	 Only compatible with vehicle models equipped with the KESSY (Keyless Entry Start & Stop) system, its functions include keyless starting and door edge sensing.
LN PUGOT-01	1	 Not applicable to all vehicle models. It is necessary to check if the type of chip applies to the car model. Support vehicles with electronic chip keys or with 11, 12, 13, 7936, 7937, 7947, 7946 chips.

LK VOLWG-01	1	 It is applied in the situations where the remote needs to be matched but the chip is not needed, or it can also be used with super chip. Support vehicles without electronic chip keys or car models with the 46, 48, 4D/70, 83, 8A/H, G, 4E, 11/12/13/4C, 42, 33, 47, 8C, 8C chips.
LE FRD-01	1	 Only compatible with vehicle models equipped with the KESSY (Keyless Entry Start & Stop) system, its functions include keyless starting and door edge sensing.

1.2 Components & Controls

1. **Induction area for super chip and transponder**
2. **Power LED**

Illuminate solid green when powered on.

3. **USB Type C connector**

Connects it to the Type C plug of the USB A to Type C converter.

4. **USB Type C port**

Connects it to the Type C plug of the key chip programming cable.

1.3 Technical Parameters

Size: 80*40*11.2mm

Working voltage: 5V

Operating temperature: 0-50°C

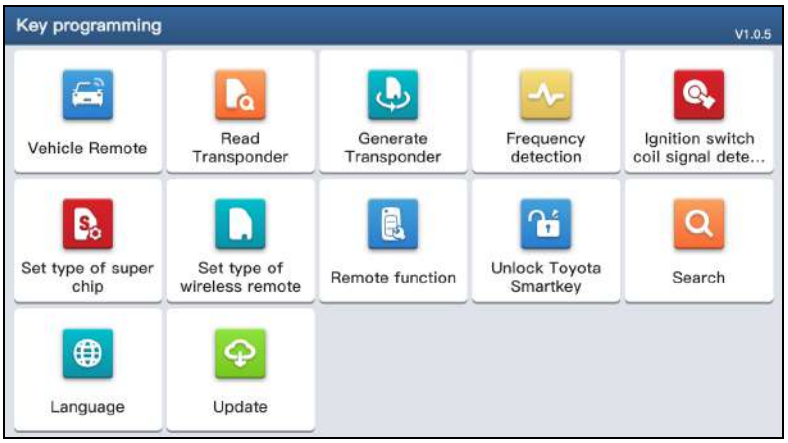
Communication interface: USB

Low-frequency communication interface: 125K low-frequency transceiver

High-frequency communication interface: support 13.56M high-frequency transceiver and 3000M-500M high-frequency signal frequency measurement

2 Function Modules

Open the Key Programmer App on the diagnostic tool. The following screen will appear:



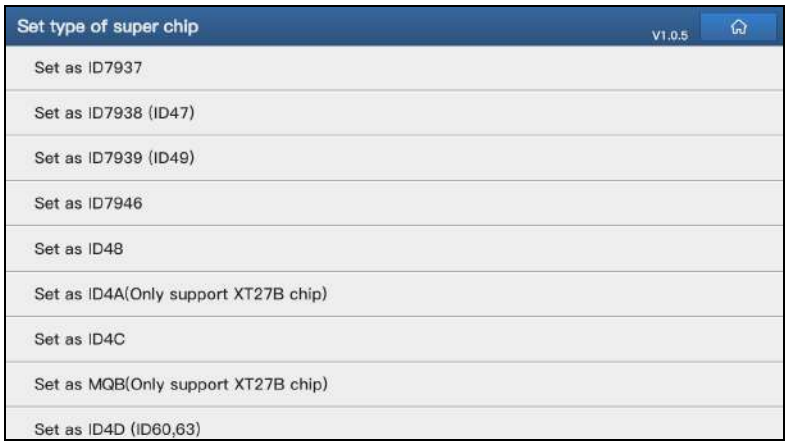
It provides the following functions:

1. Vehicle remote: Generate different car remote keys according to vehicle model, make year, frequency and chip.
2. Read Transponder: Identify the type of car key transponder, including key ID, key model and encrypted or not.
3. Generate Transponder: Generate different car key transponder according to vehicle model or chip type.
4. Frequency detection: Detect the frequency and modulation mode of car keys.
5. Ignition switch coil signal detection: Check if the ignition coil functions properly or not.
6. Set type of super chip: Set the types of super chips and LN Series wireless remote chips. See Chapter 3.1 and 3.4 for details.
7. Set type of wireless remote: Set the types of LE Series super remote chips. See Chapter 3.2 for details.
8. Remote function: Perform various other functions, such as remote failure detection, smart key clone and setting etc.
9. Unlock of Toyota Smart key: Unlock the original Toyota Smart key to match other cars.
10. Search: Retrieve the vehicle brand, model or chip name to check its corresponding remote key and chips.
11. Language: Set the preference language of system user interface.
12. Update: Update key programmer app & software, firmware and remote database to the latest version.

3 Operations

3.1 Set Type of Super Chip

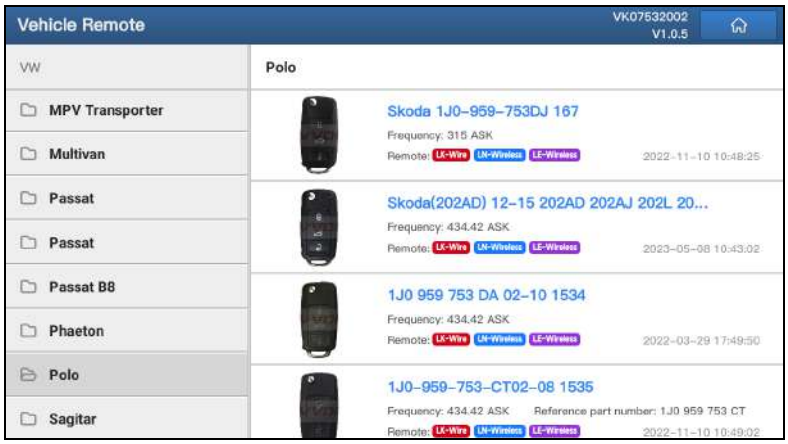
1. Connect the key programmer to the Type C plug of the USB A to Type C converter, and the USB A plug to the Type A USB port of the diagnostic tool.
2. Tap **Set type of super chip** and select the corresponding key chip type.
3. Place the super chip into the induction coil area of the key programmer.



4. Once successfully generated, it can be used.

3.2 How to Use LE FRD Super Remotes

1. Connect the key programmer to the Type C plug of the USB A to Type C converter, and the USB A plug to the Type A USB port of the diagnostic tool.
2. Tap **Vehicle Remote** and select the corresponding available super remote.



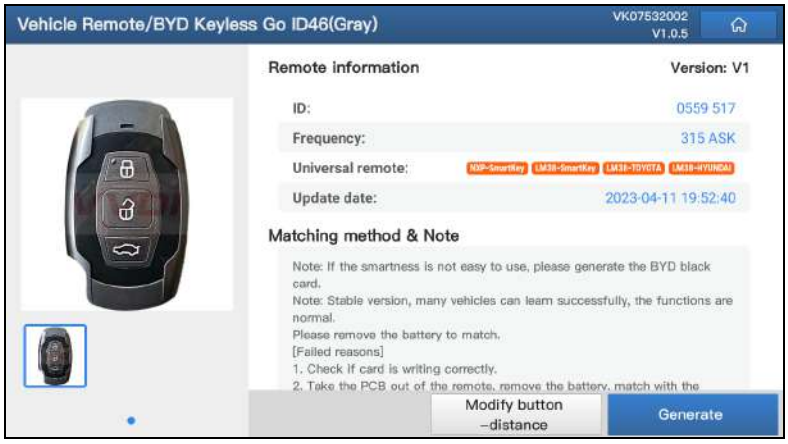
3. Select the corresponding key and place the super remote key on the top of the key programmer to generate.

4. After the remote control is successfully generated, enter **Set type of super chip** to generate the corresponding key chip.

3.3 How to Use LS NISN Super Remotes

1. Connect the key programmer to the Type C plug of the USB A to Type C converter, and the USB A plug to the Type A USB port of the diagnostic tool.
2. Tap **Vehicle Remote** and select the corresponding smart key model to generate.

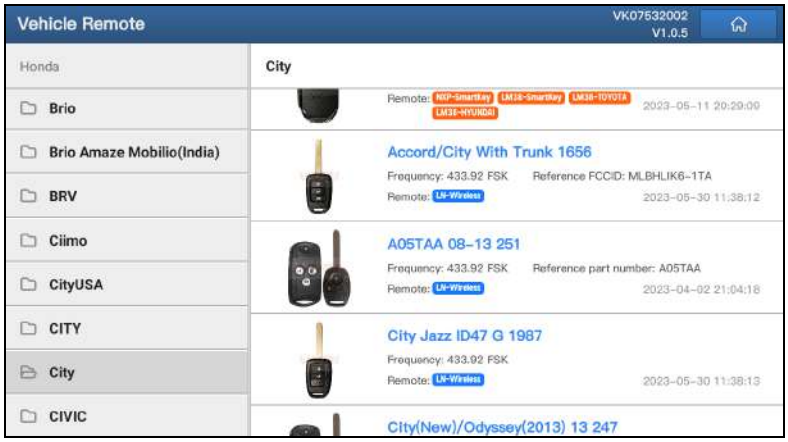
3. Place the smart remote key on the top of the key programmer.



4. Double check the remote information and tap **Generate**.

3.4 How to Use LN PUGOT Super Remotes

1. Connect the key programmer to the Type C plug of the USB A to Type C converter, and the USB A plug to the Type A USB port of the diagnostic tool.
2. Tap **Vehicle Remote** and select the corresponding electronic key model to generate.

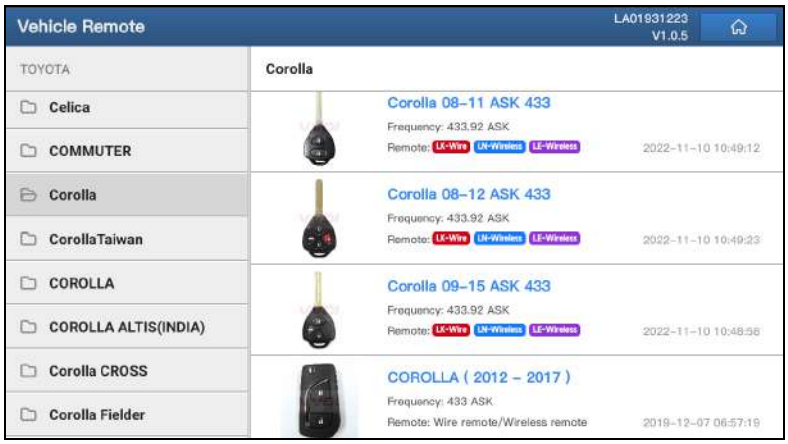


3. Place the electronic remote key on the top of the key programmer to generate.

4. Double check the remote information and tap **Generate**.
5. For car models without electronic keys, enter **Set type of wireless remote** to generate the corresponding key.

3.5 How to Use LK VOLWG Super Remotes

1. Connect the key programmer to the Type C plug of the USB A to Type C converter, and the USB A plug to the Type A USB port of the diagnostic tool.
2. Tap **Vehicle Remote** and select the corresponding key model to generate.



3. Connect one end of the key chip programming cable to the remote key chip, and the other end to the Type C port of the key programmer. Tap **Generate** to generate.

Warranty

THIS WARRANTY IS EXPRESSLY LIMITED TO PERSONS WHO PURCHASE LAUNCH PRODUCTS FOR PURPOSES OF RESALE OR USE IN THE ORDINARY COURSE OF THE BUYER'S BUSINESS.

LAUNCH electronic product is warranted against defects in materials and workmanship for one year from date of delivery to the user.

This warranty does not cover any part that has been abused, altered, used for a purpose other than for which it was intended, or used in a manner inconsistent with instructions regarding use. The exclusive remedy for any automotive meter found to be defective is repair or replacement, and LAUNCH shall not be liable for any consequential or incidental damages.

Final determination of defects shall be made by LAUNCH in accordance with procedures established by LAUNCH. No agent, employee, or representative of LAUNCH has any authority to bind LAUNCH to any affirmation, representation, or warranty concerning LAUNCH automotive meters, except as stated herein.

Disclaimer

The above warranty is in lieu of any other warranty, expressed or implied, including any warranty of merchantability or fitness for a particular purpose.

Purchase Order

Replaceable and optional parts can be ordered directly from your LAUNCH authorized tool supplier. Your order should include the following information:

- Order quantity
- Part number
- Part name

Customer Service

If you have any questions on the operation of the unit, please contact local dealer, or contact **LAUNCH TECH CO., LTD.**:

Website: https://en.cnlaunch.com

Phone: +86 755 2593 8674

Email: DOD@cnlaunch.com

Statement:

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