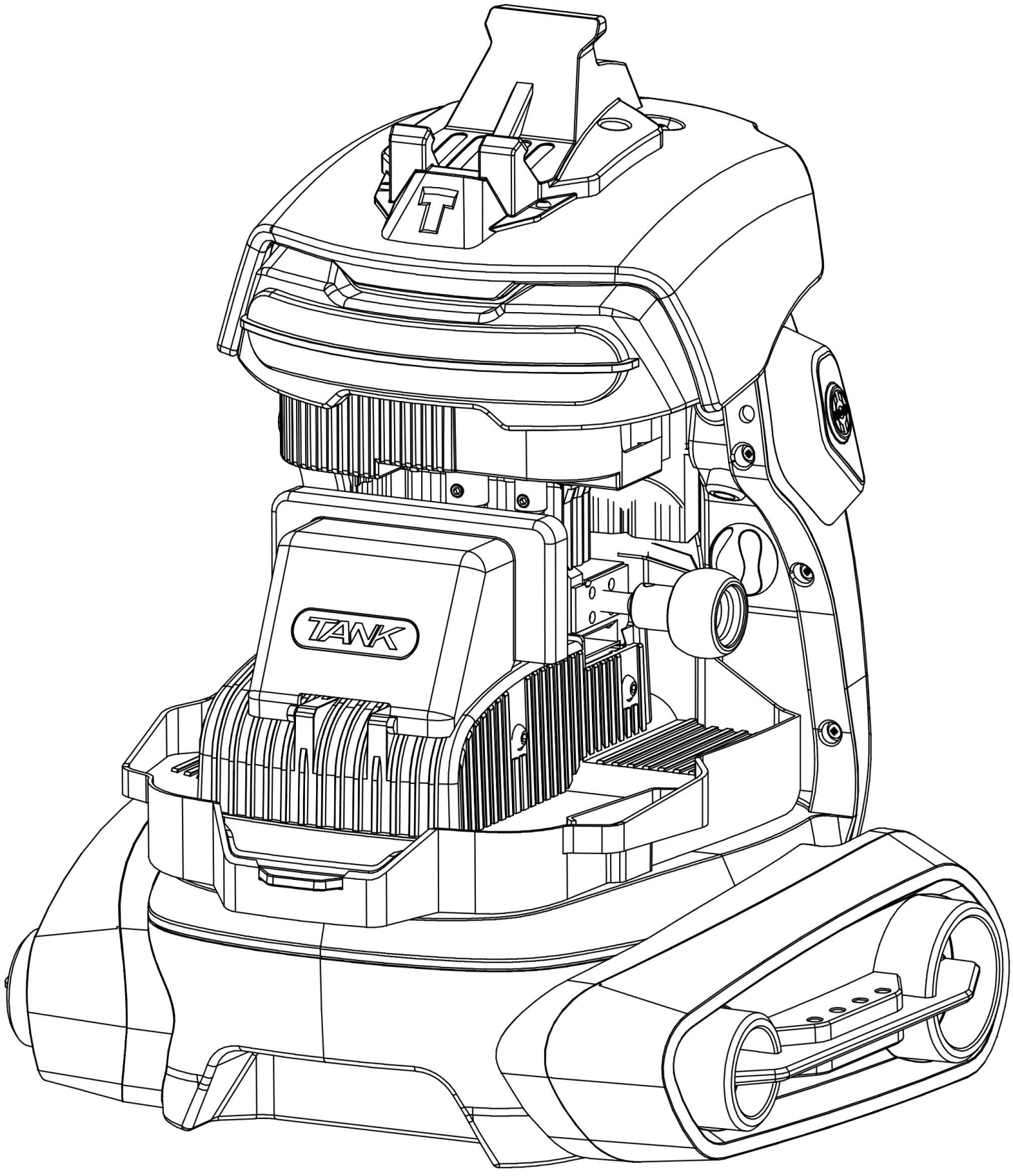
TANK 2 Pro CNC key cutting machine manual



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1、Safety precautions and warnings

To avoid injuries to operators,please read this product user manual carefully Before you start and follow the safety notes listed below

1-1 Power supply precautions

●Do not use damaged wires or loose socket
●Do not plug more devices at the same socket
●Do not pull wire or touch the metal part of power supply
●Unplug the machine when it is not in use for a long time
●If any problem happens,please contact technique support

1-2 Installation precautions

●Do not place the machine in a place that is damp,greasy and dusty
●Do not put things like candle or cigarette end on the machine
●Always use the machine under safe environment
●Put the machine on the stable platform

1-3 User precautions

●Do not have clothes,hair,hands and other tools close to the machine when
it is working
●Do not put things like tool or container on the machine

1-4 Other precautions

●Do not disassemble the machine if you don’t get permission from factory technique support.
●Keep the children away from the machine when it is working

2、General information

2-1 Machine description

Dear customer,thank you for using 2M2 tank automatic key cutting machine,it is a portable and light weight,especially designed for locksmiths in the world to work outdoor.To avoid injuries and damages to the machine,please use the machine correctly according to product user manual.Please read the manual carefully before you start to use the machine.

2-2 Machine characteristics

●Smart control and operation on APP and build-in database
●Portability and build-in Lithum battery with a long battery life(optional)
●Equipped with B clamp(standard clamp),F021 clamp
●Cutter and probe work in parallel
●Aluminum structure
●Imported ball screw with high precision
●Cross rail with high rigidity
●Supporting free online update
● Operating in multiple languages(Currently available in English, Spanish, Portuguese, Farsi, German, French, Hebrew, Hindi, Indonesian, Italian, Korean, Polish, Russian, Vietnamese, Japanese and other languages)

3、Product packaging checklist

Accessories box

Packaged

4、Overview

4-1 Structure

TANK II Pro
ACCESSORIES & PARTS
Mobile phone bracket
Aluminum alloy cap
Protective
shell for motor
Mask
Lighting
FO21 port
protective shell
Cutter & probe
Switch
Turn rigtht
Press
Protective
cover
TANK
Storage for probe (left)
Drawer for particles.
Cover
Aluminum alloy shape
base on both sides

TANK II Pro
TANK 2 PRO
Handle
Multi-funciton
standard clamp
Rear cover
2M2
Power supply
24V /6A
Storage for cutters (right)
Metal base

4-2 Specification

Input voltage	100-250V AC
Input frequency	50-60Hz
Power	144W
Power parameter	24V DC/6A
Battery capacity (optional)	65Wh
Principal axis rotation speed	10000rpm
Working temperature	-20℃-50℃
Humidity	10-90%
Gross weight	13KG
Net weight	16.5KG
Machine size	36cm*27cm*41cm
Package size	43.5cm*35.5cm*46.5cm

4-3 Software overview

4-3-1 Introduction

● Supporting self-calibration

●Supporting key duplication and cutting for vehicle/motorcycle/household keys

● Supporting universal key decode for multiple key types

● Operation on APP through Bluetooth

● Build-in key database

4-3-2 Smart phone operation system

●Android: Android 5.0 and above version

●IOS:IOS 12.0 and above version

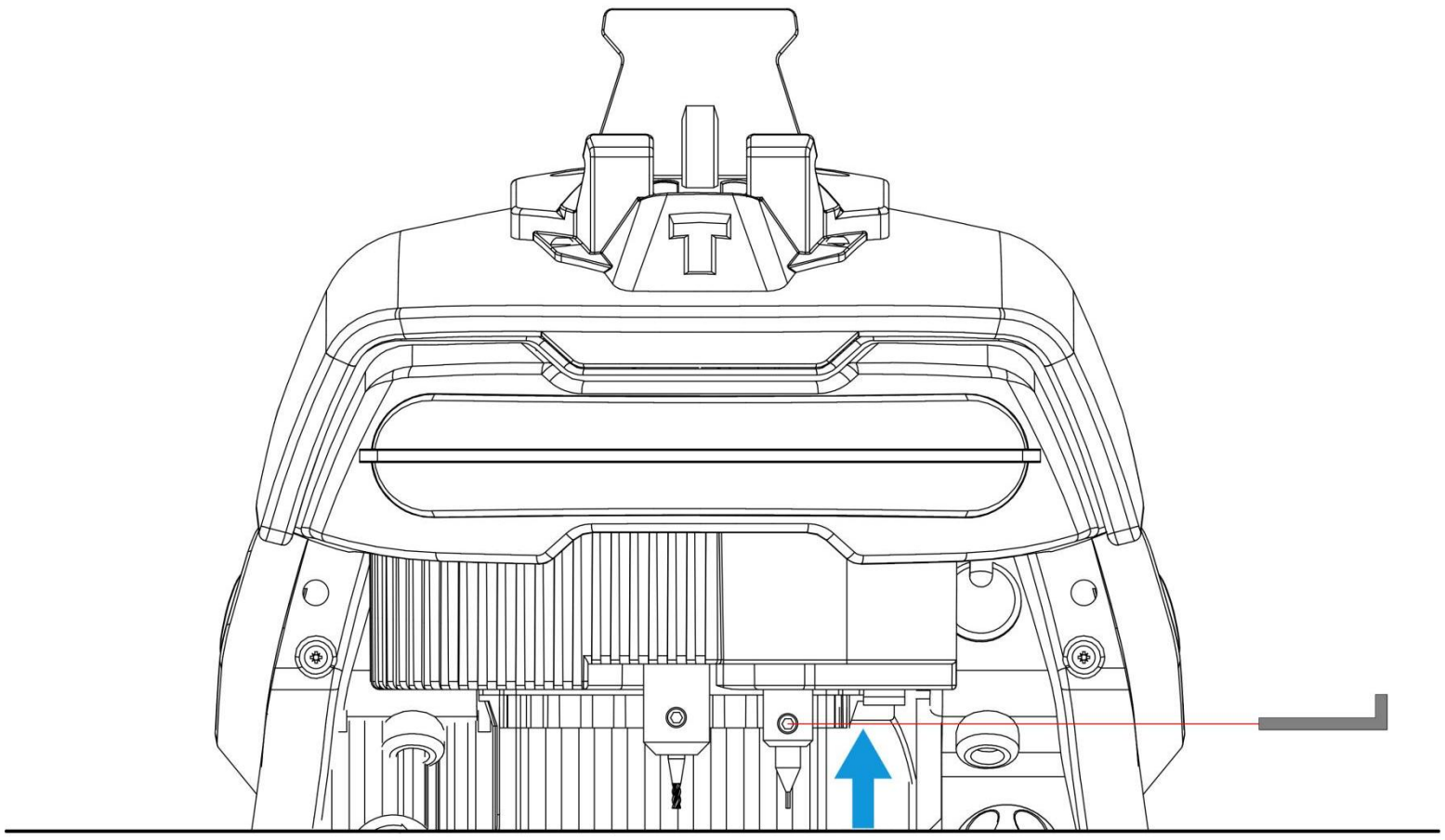
4-3-3 Software update

●Online update on APP

●Update via upgrade suite

5、Installation instruction

5-1 Cutter and probe installation

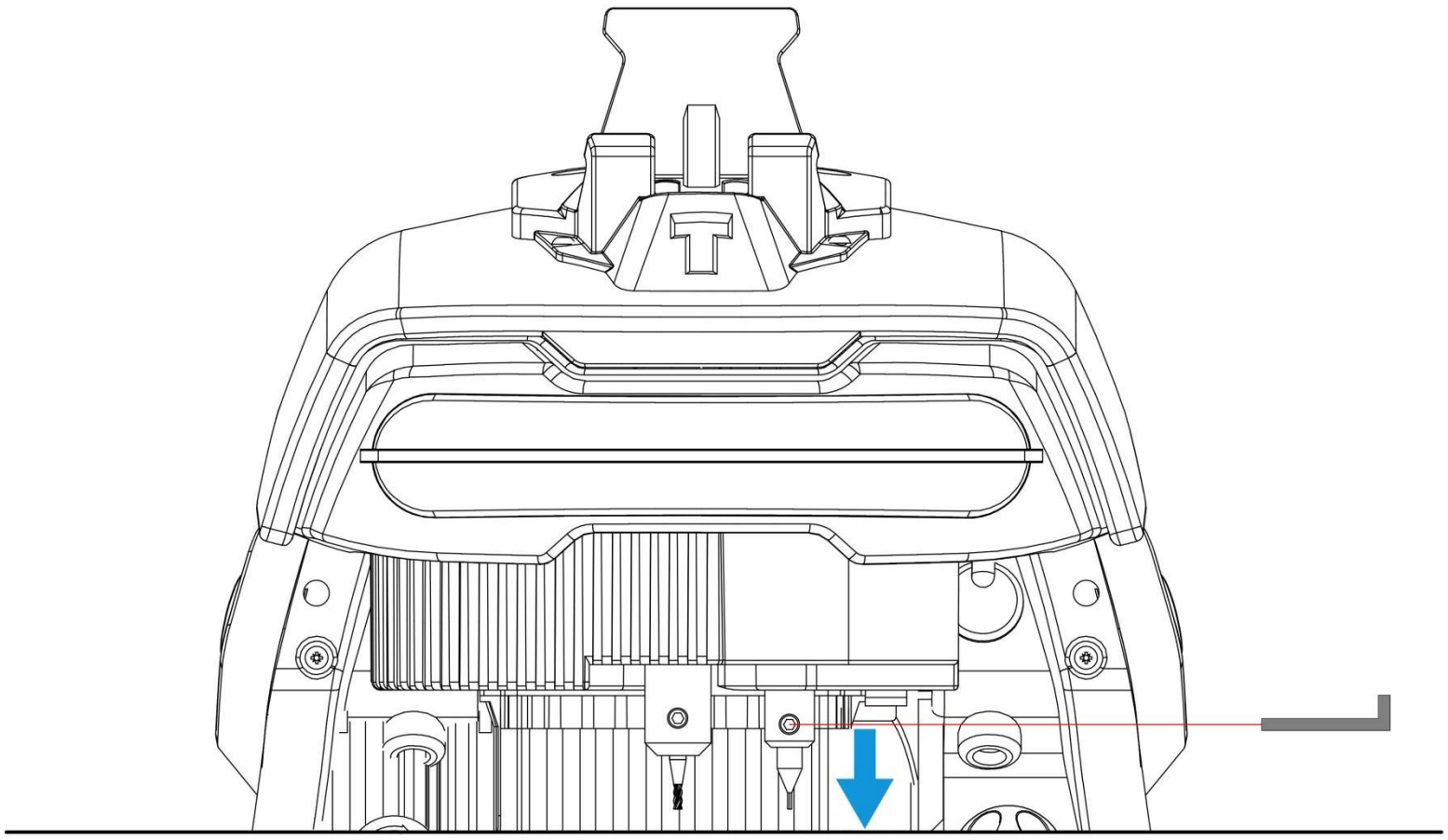


Installation steps:

Insert cutter and probe onto the top depend on the arrow,and then use 2.5mm hexagon bar wrench to lock the screw.

Notes: when pushing both cutter and probe onto the top,probe Height is higher than cutter height.

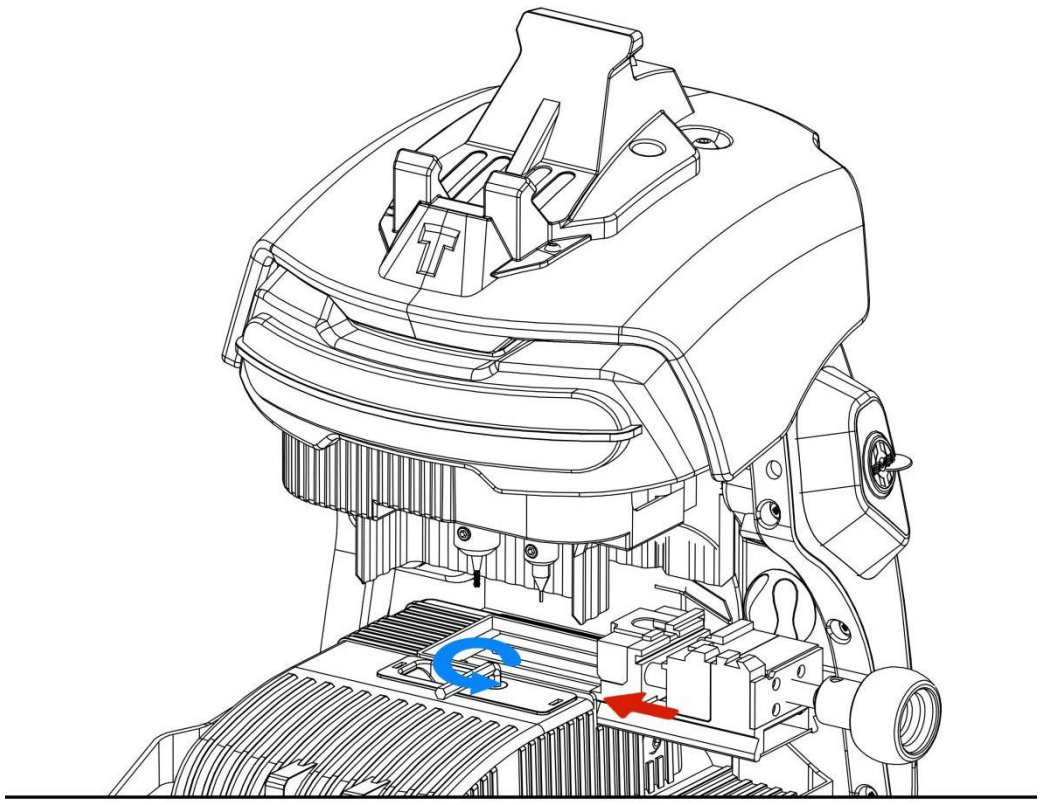
5-2 Cutter and probe installation



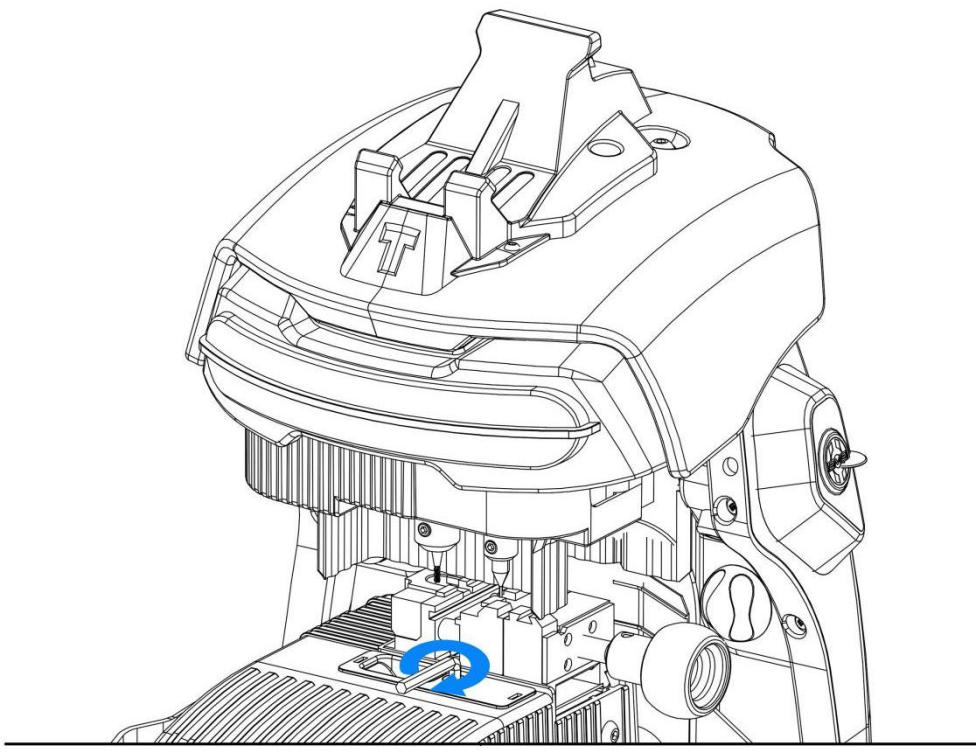
Installation steps:

Use 2.5mm hexagon bar wrench to unscrew the locks for cutter and probe until they are loosened off.

5-3 Clamp installation



Picture 1



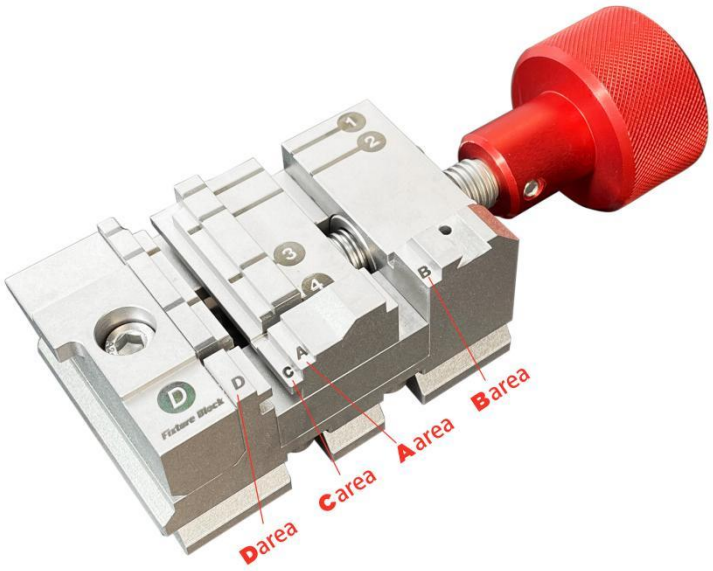
Picture 2

Installation steps:

Unscrew the lock for the clamp,insert the clamp along the rail depend on the arrow(picture 1).and then use 4mm hexagon bar wrench to screw the lock(picture 2).

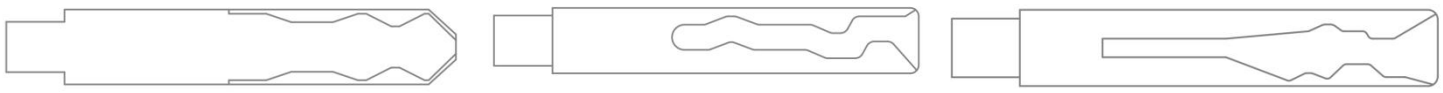
5-4 Pictures of clamp

B Clamp



Supporting types

Single sided key Double sided key 2 Track external Residential



4 Track external Channel track 4 Track internal

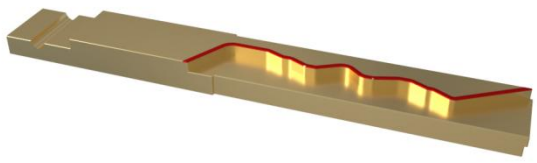
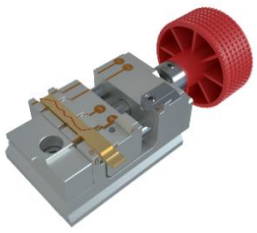
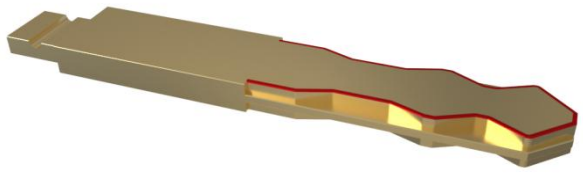
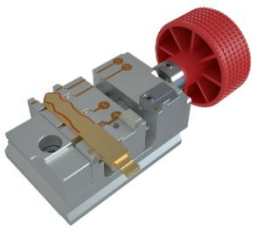
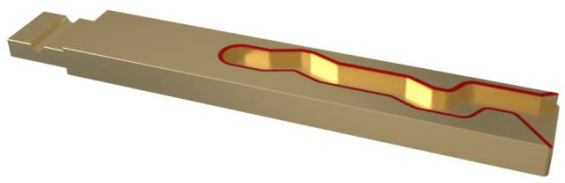
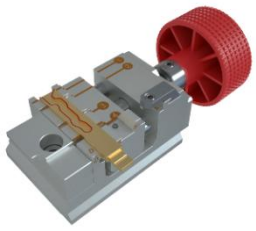
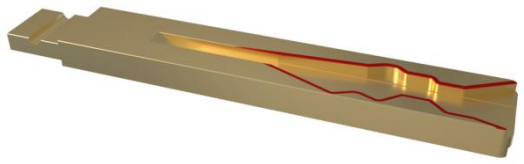
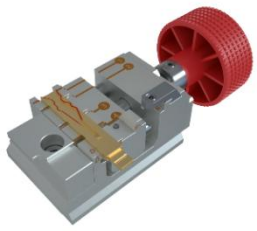
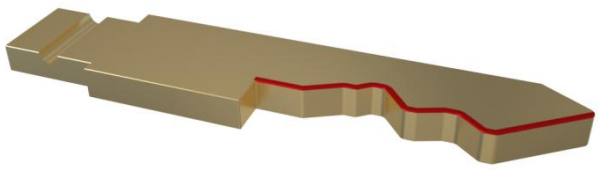
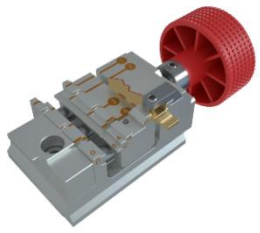
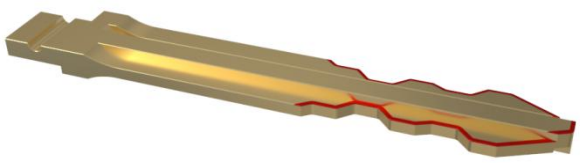
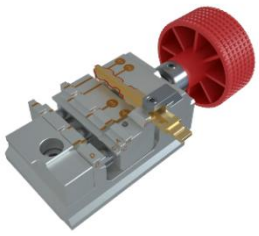
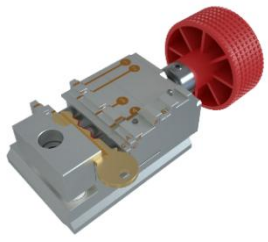
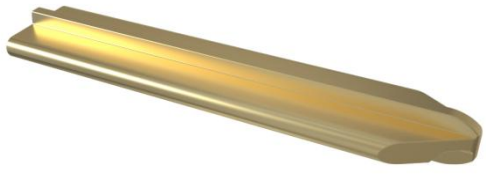
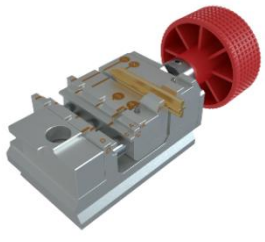
SX9

F Clamp（F021/TBE1）

Supporting types

F021/TBE1

5-5 Standard clamp B range

Key types	Cutting side pictures	Clamp cutting sides	Description
2 track external			Clamp B A area
4 Track external			Clamp B A area
Channel track			Clamp B A area
4 Track internal			Clamp B A area
Single sided key			Clamp B B area
Double sided key			Clamp B B area
Residential key			Clamp B D area
SX9			Clamp B B area
F021/TBE1			Clamp F

6、Operation instructions on APP

6-1、How to download the Tank APP?

Web: https://downloadapp.magicxtank.com/#/

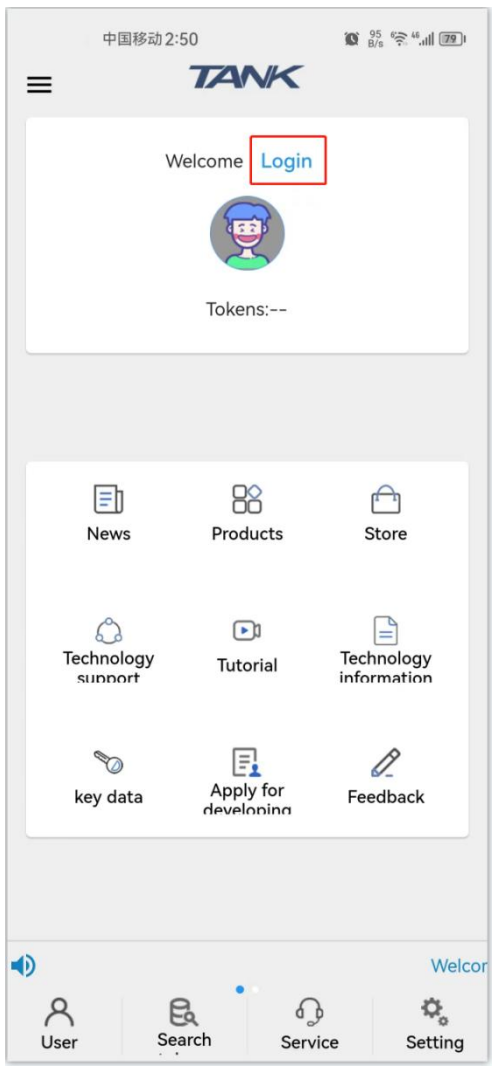
Android:

Scan QR code for Android

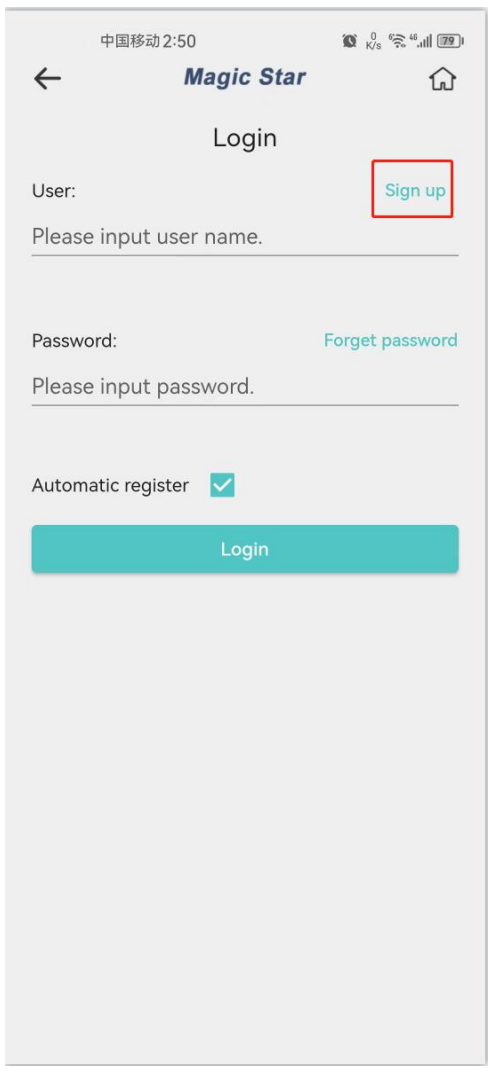
IOS:

Search’MagicTank’in App Store for iPhone

6-2、How do new users sign up ?

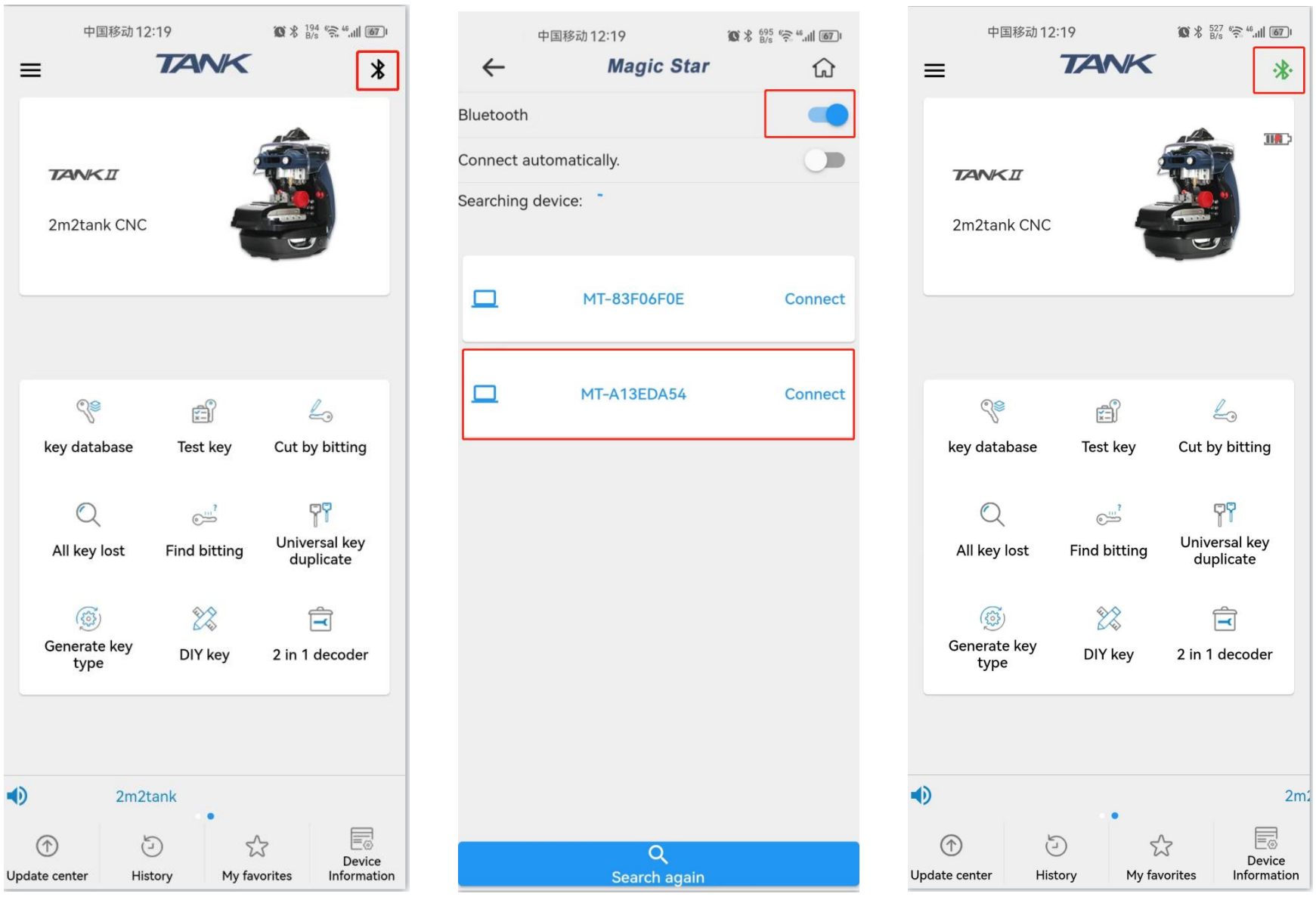


Please register



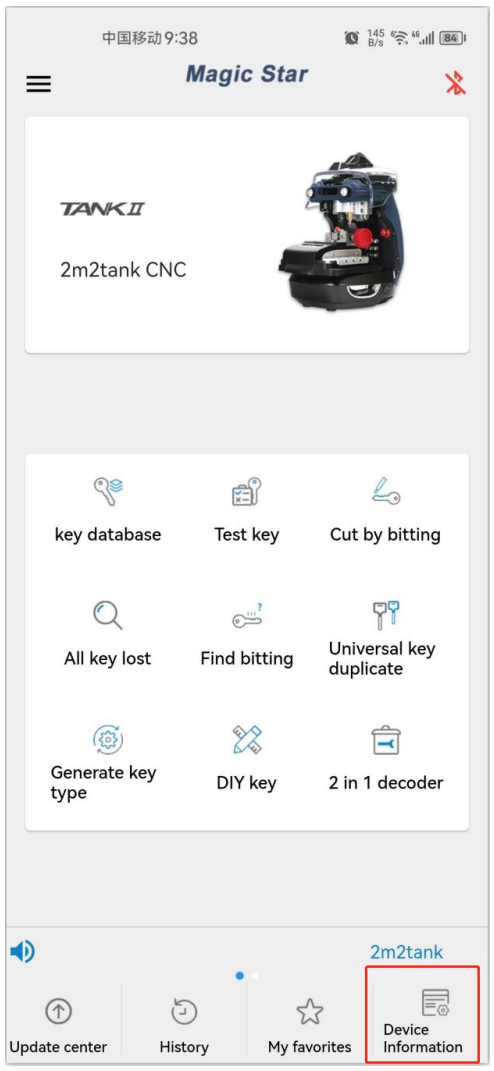
Please sign up via phone number.

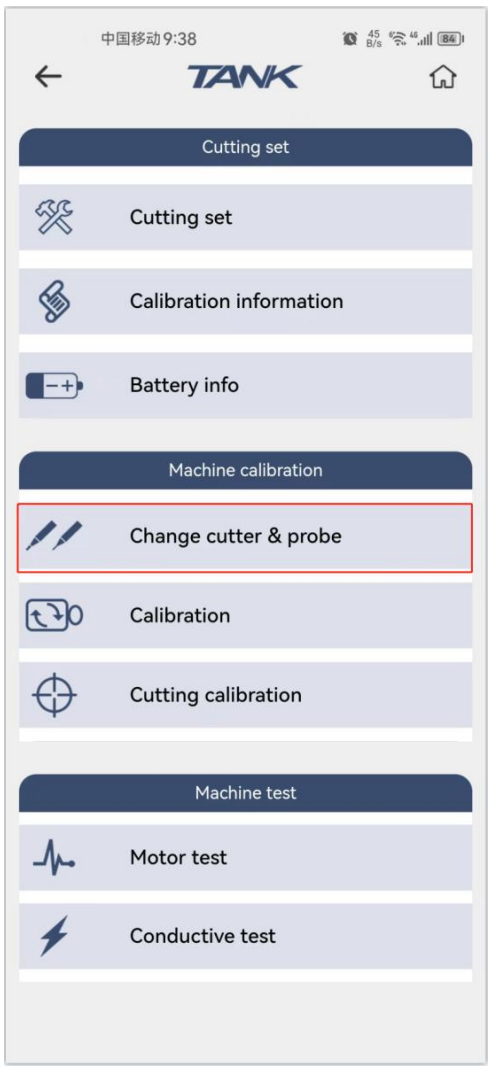
6-3、Bluetooth connection



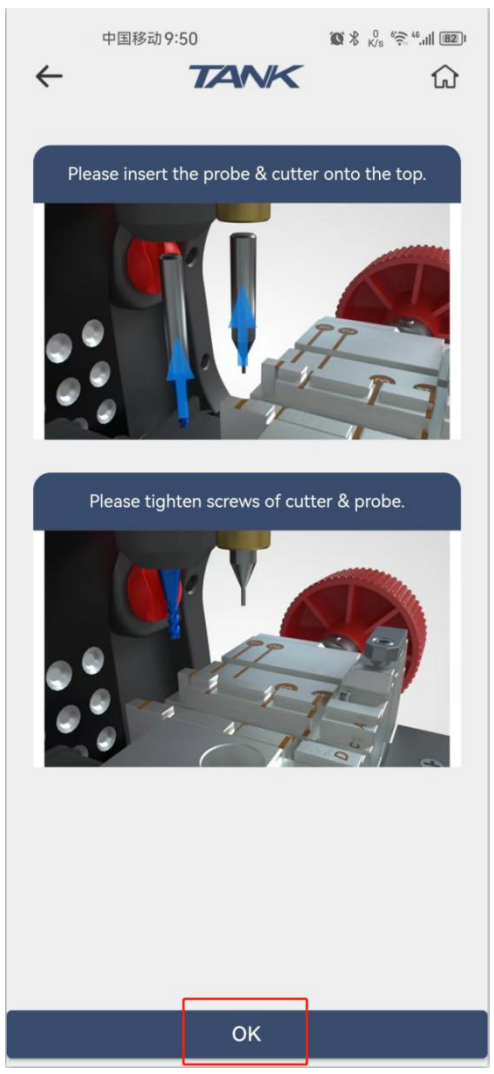
Click bluetooth logo, Click bluetooth switch and then click series number, Connection is ok.

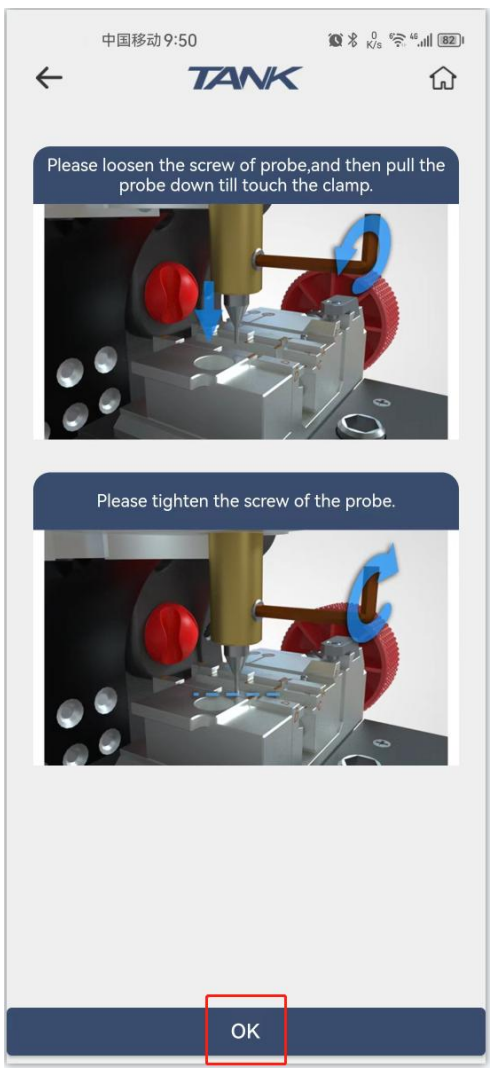
6-4、 Height level adjustment

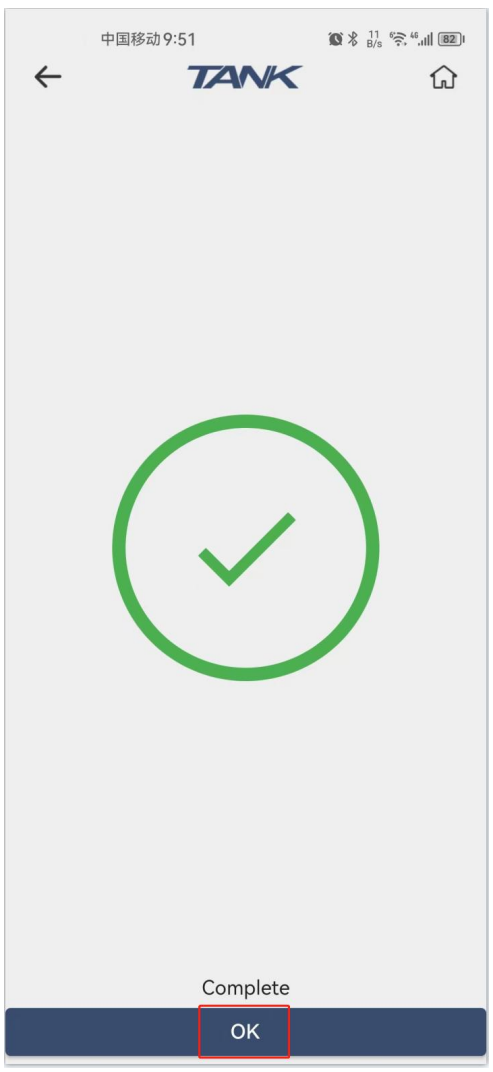




Enter 2M2TANK APP and click ‘Device information’, Click ‘change cutter & probe’,

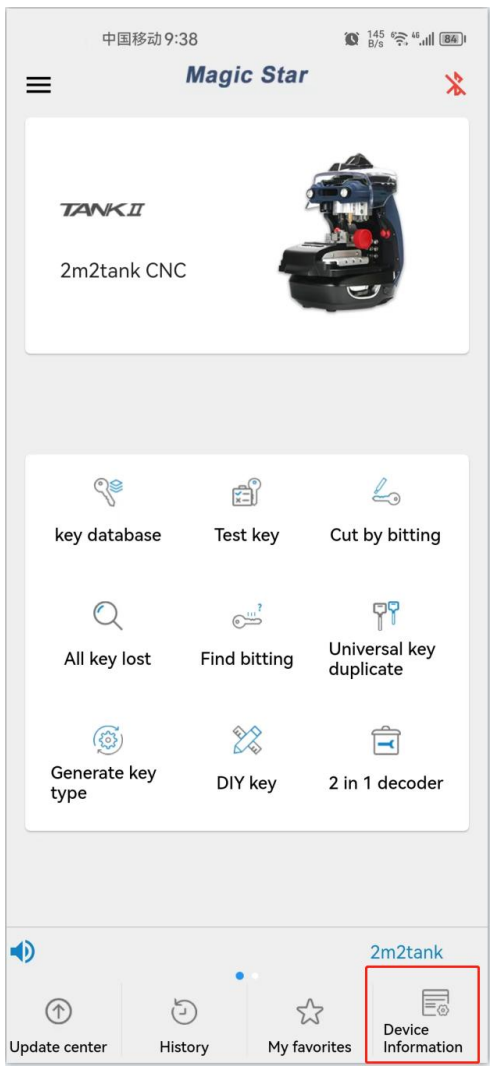




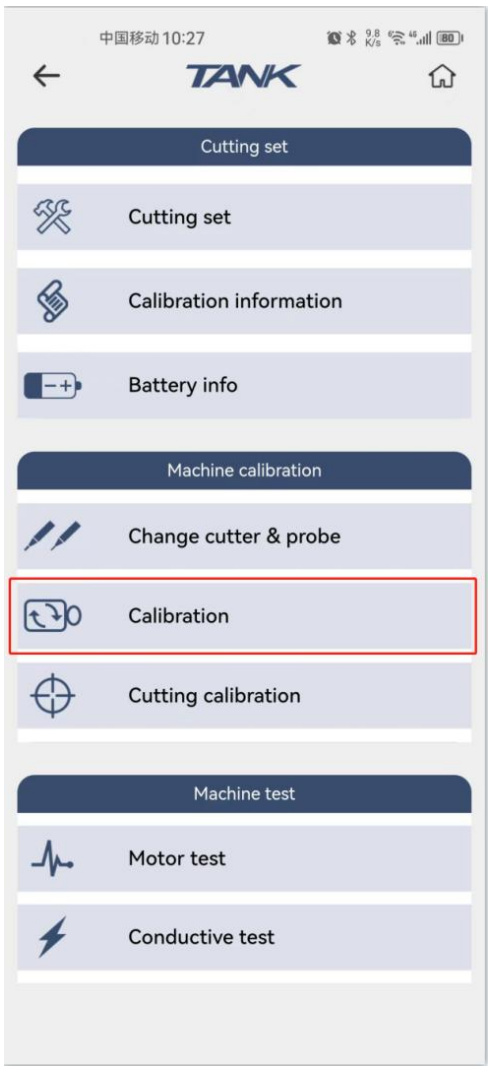


Installation and then click “OK” Loosen off the screw until it touches the clamp

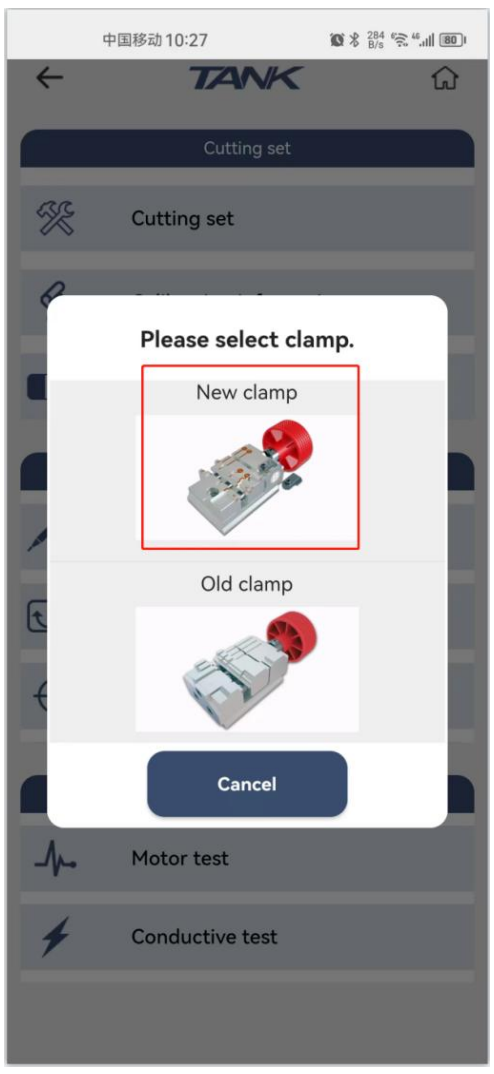
6-5、 Clamp calibration



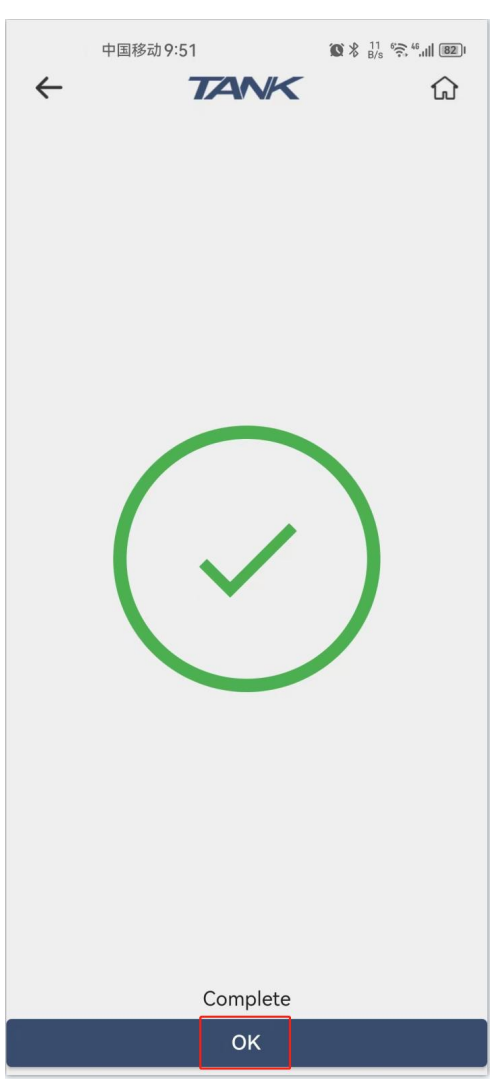
Enter 2M2 TANK interface,click “settings”



Click “clamp options”



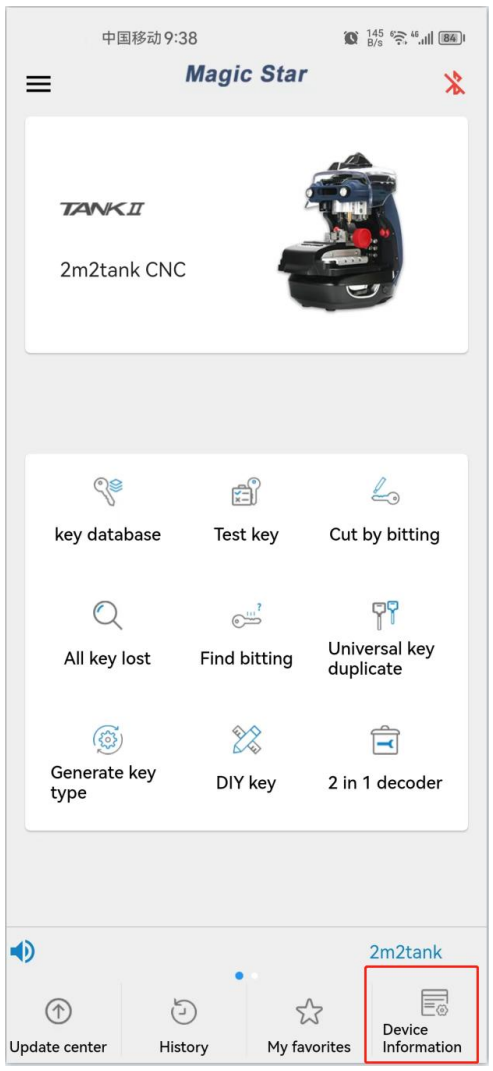
Select clamp depend on your current clamp”

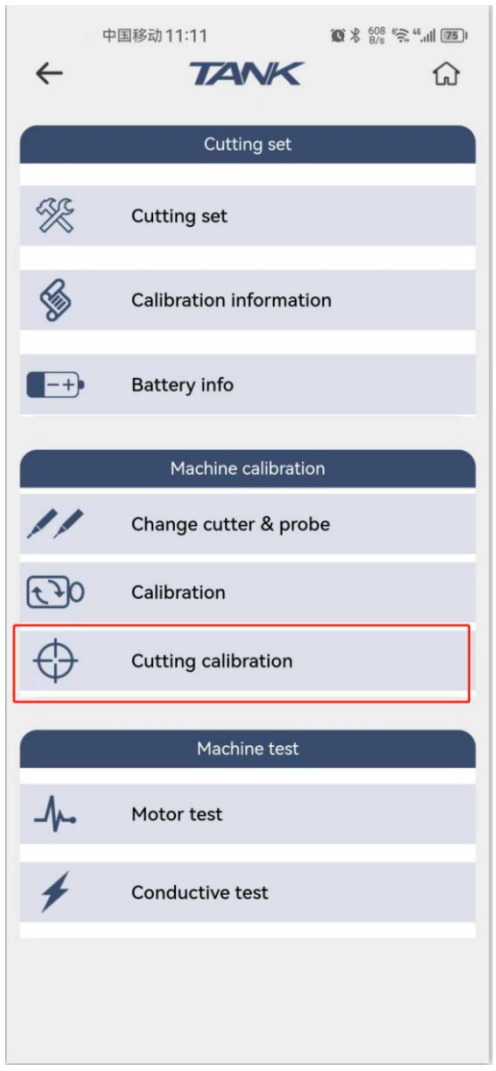


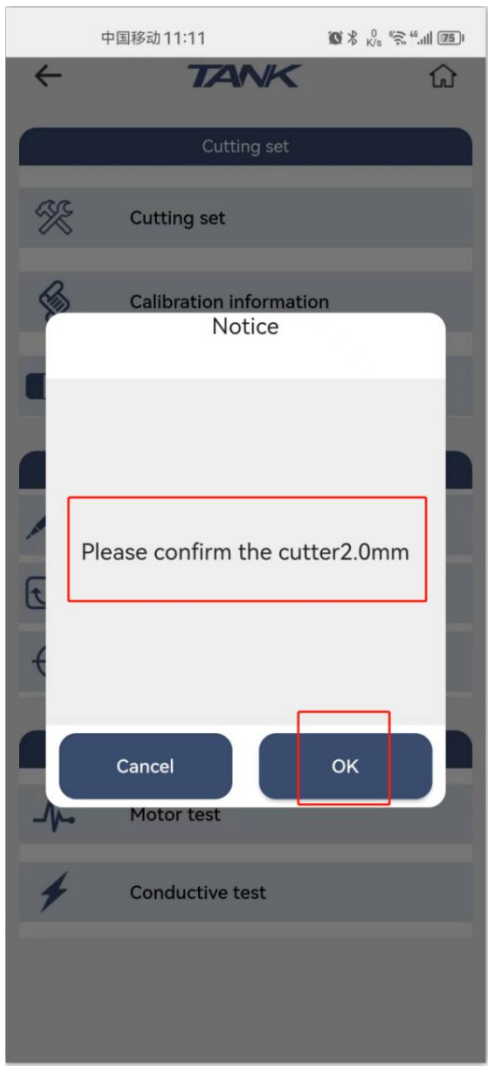
Remove the clamp from the picture instruction

(notes:If clamp B is ready,directly click “calibration”)

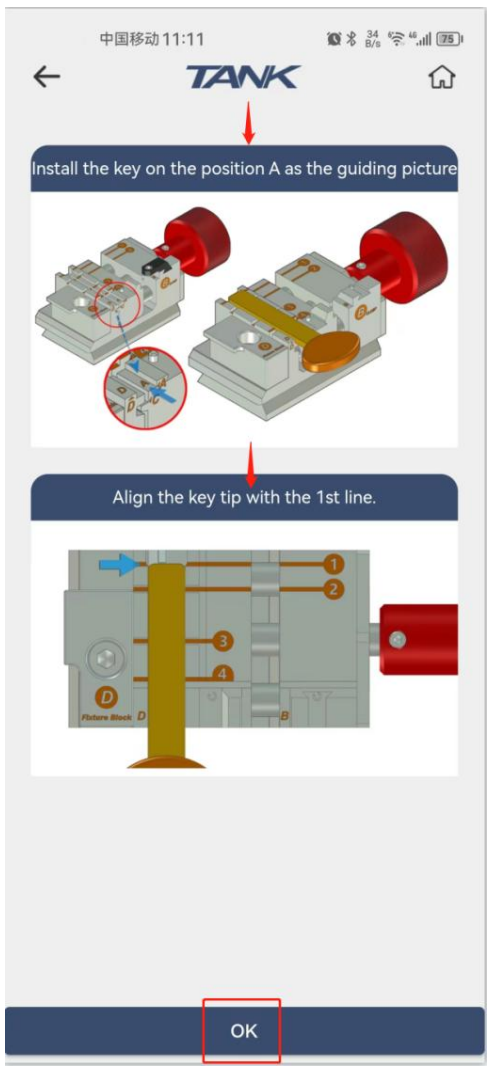
6-6、 Cutting calibration

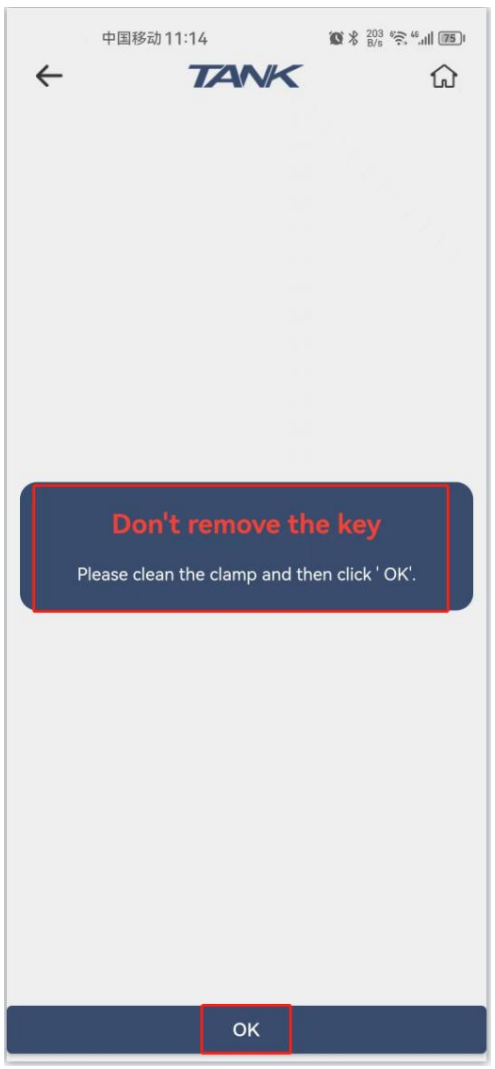


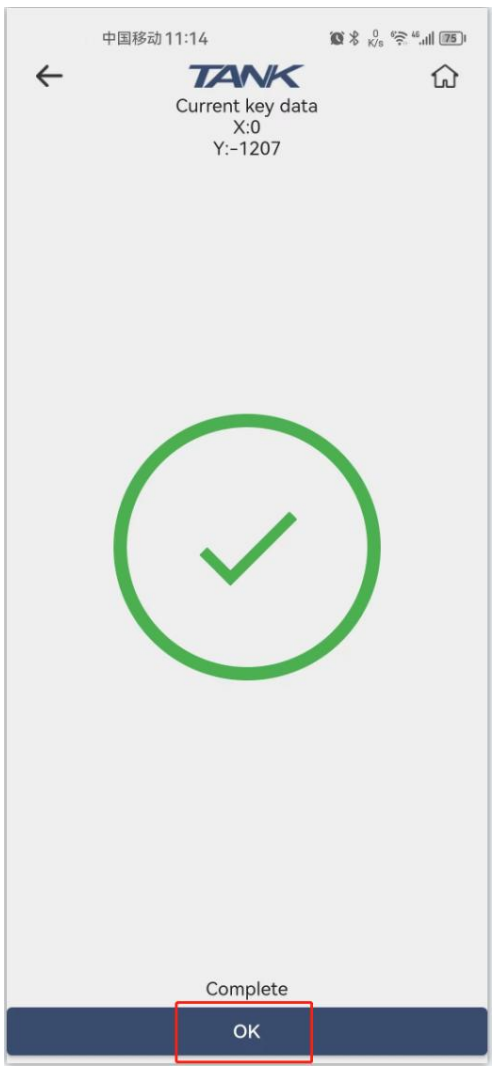




Enter ‘Device information’--- ‘Cutting calibration’ ---- ‘OK’





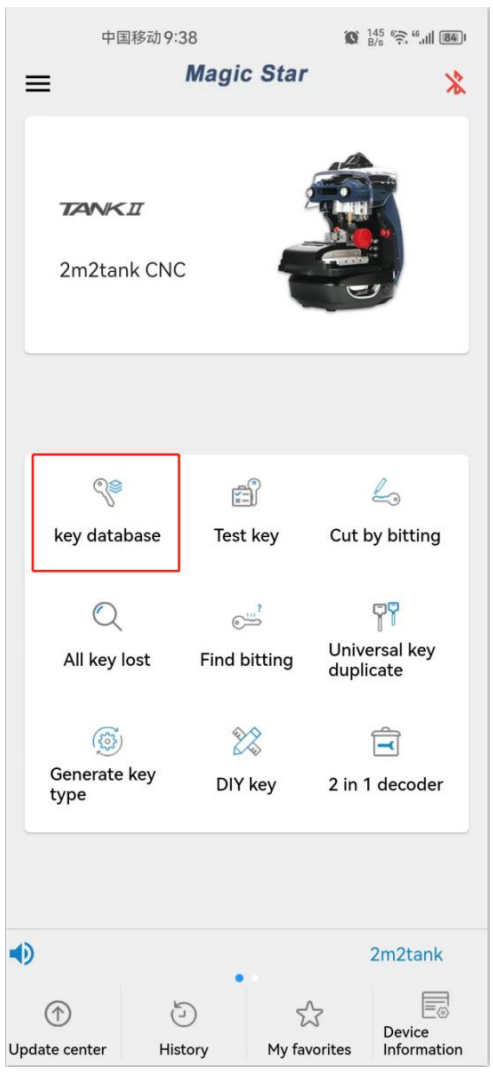


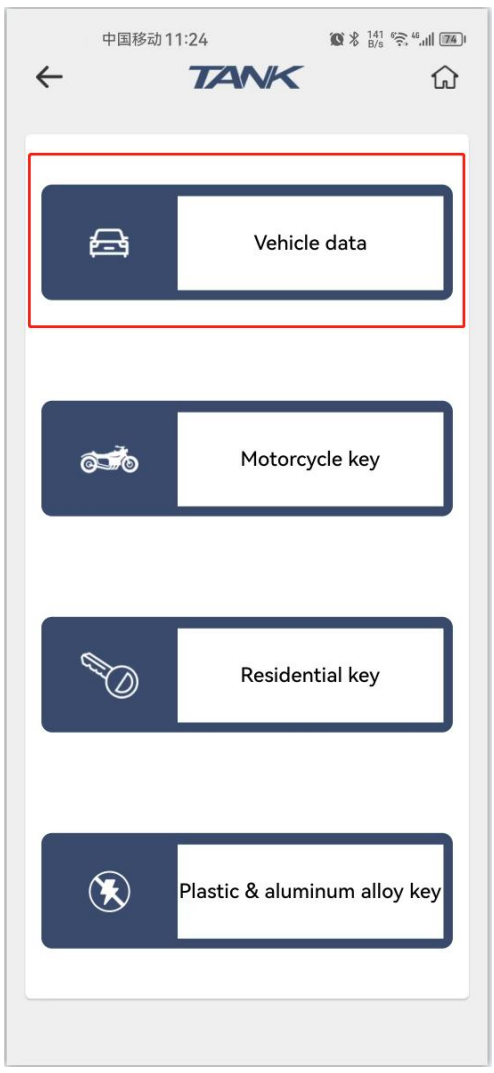
Install HON66 key blank, Click “OK”

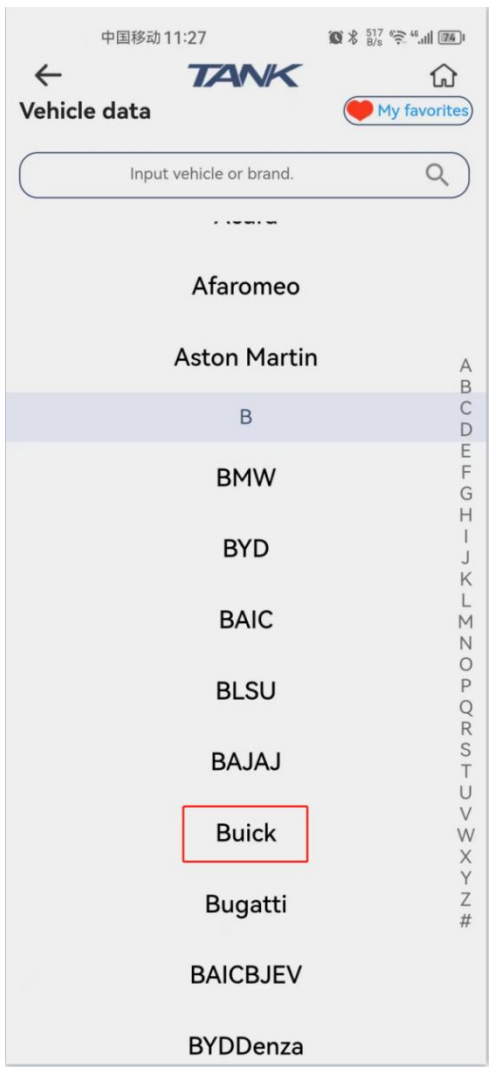
Clean the particles and click “OK”

If it’s ready, click “OK”

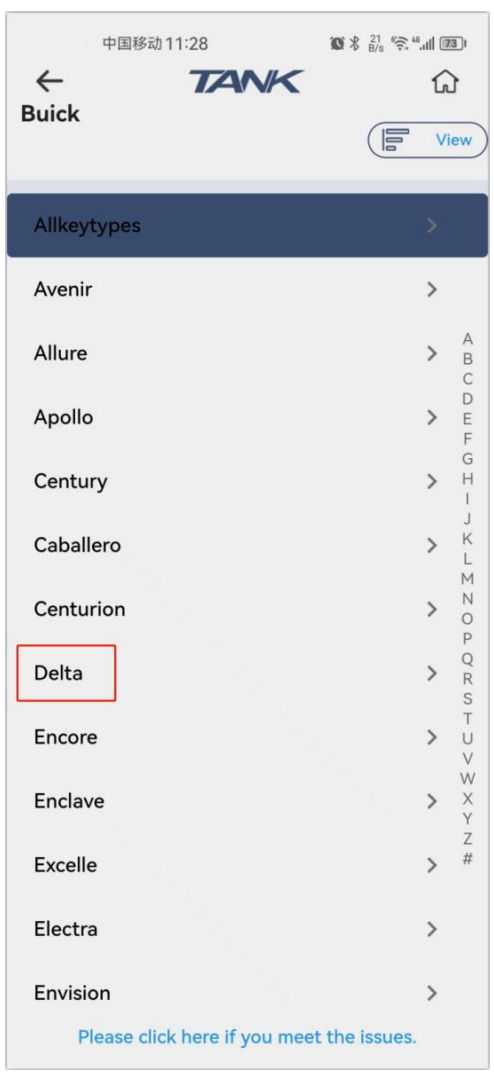
7、 How to use ‘Key database’？(Buick as sample)

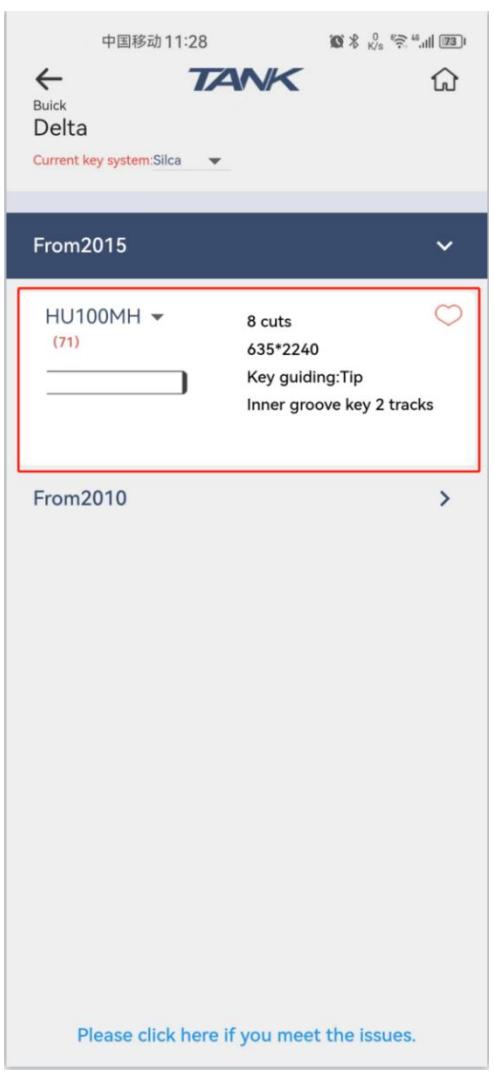


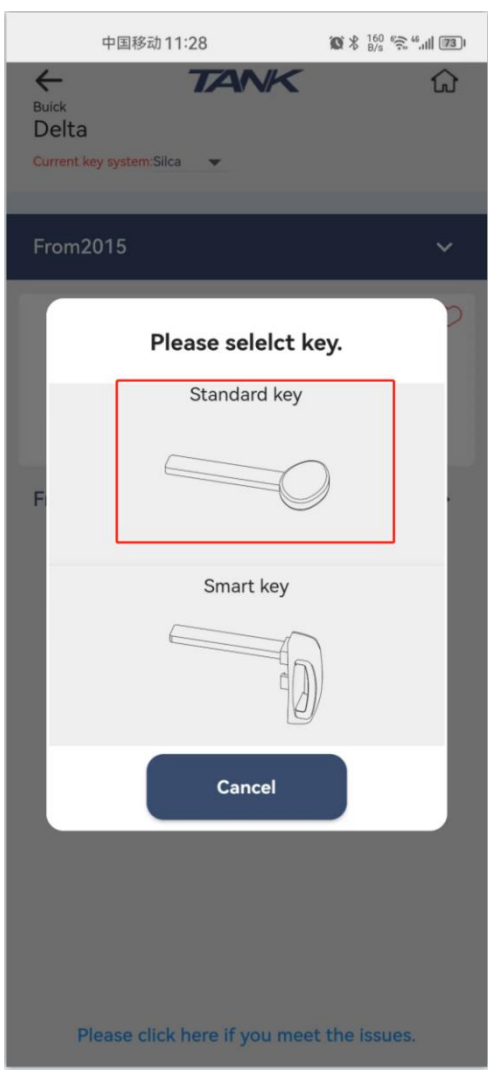




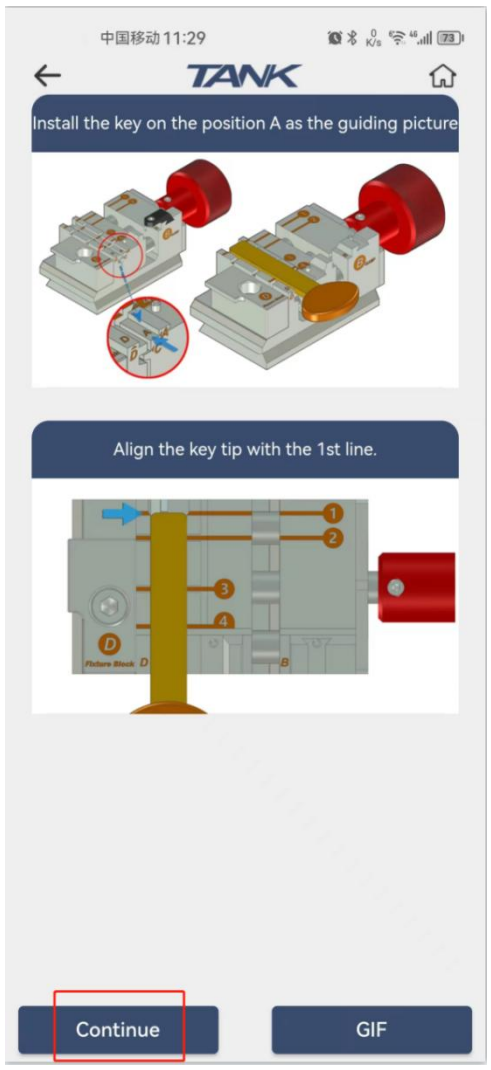
Click ‘key database’ --- ‘vehicle key’ --- ‘Buick’

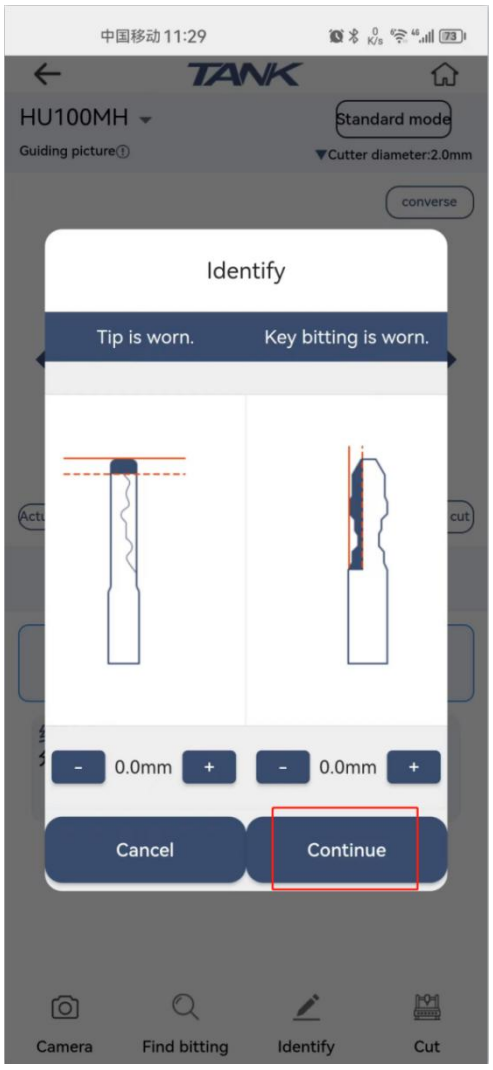




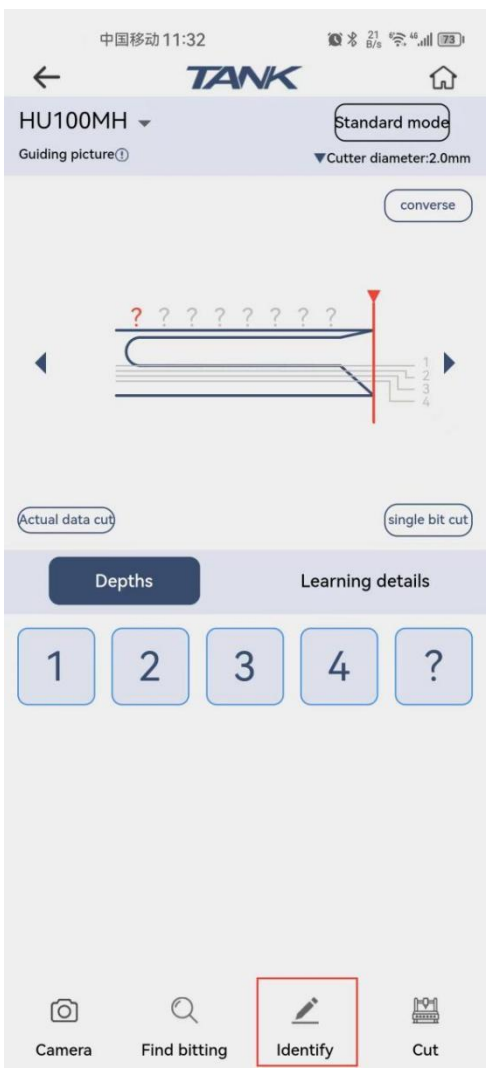


Click ‘Delta’ --- ‘HU100’ --- ‘Standard key’

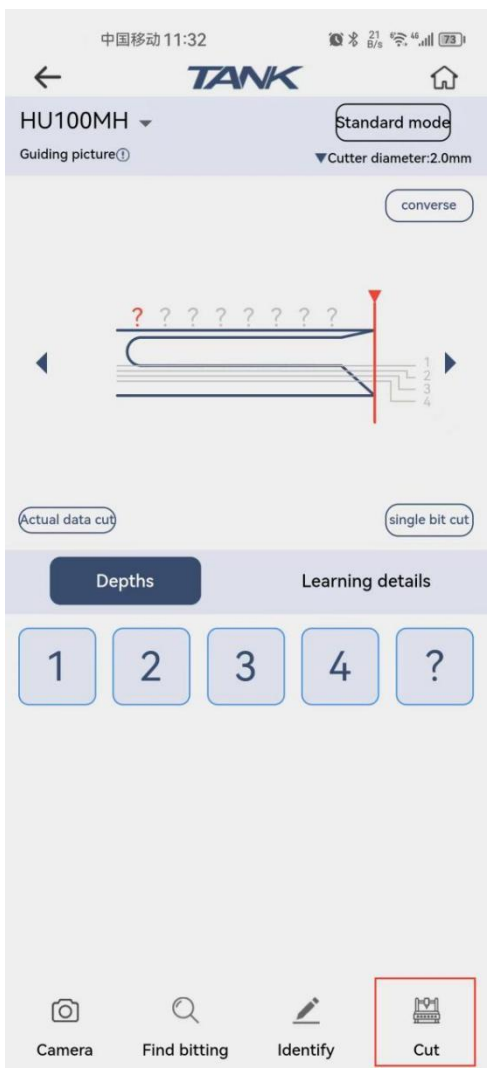




Click ‘Continue’ --- ‘Continue’



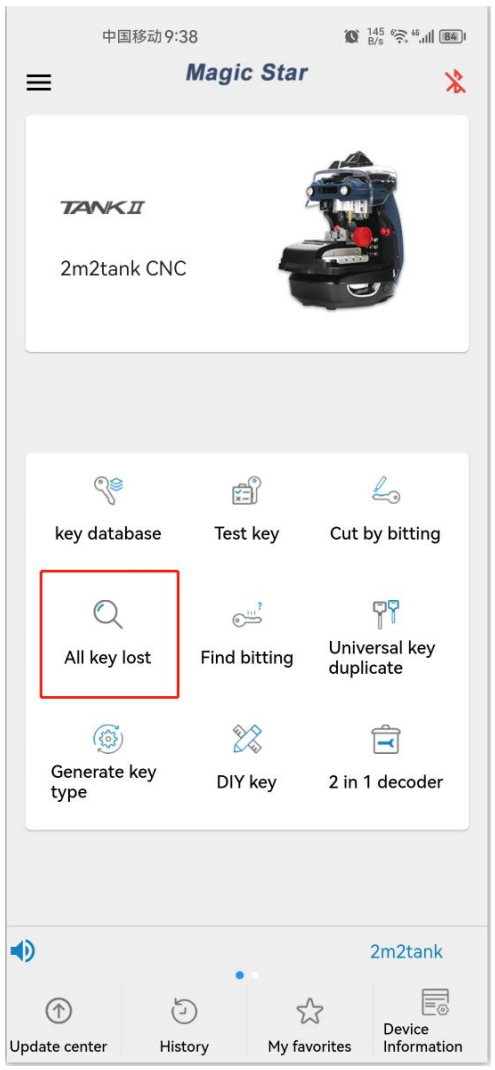
Click “Identify”

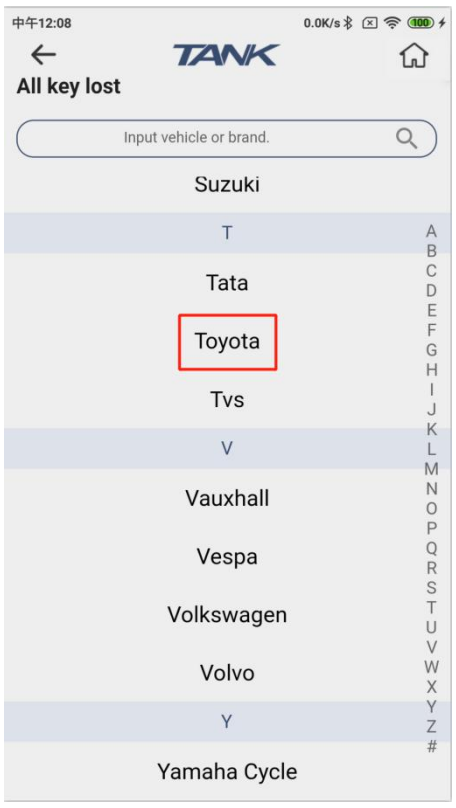


Click “cut”

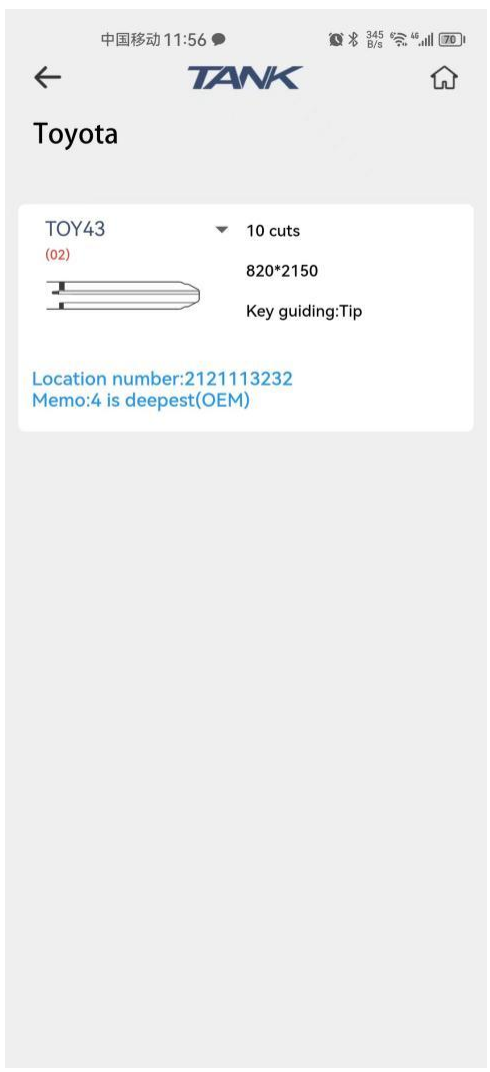
*Operation depend on App guide

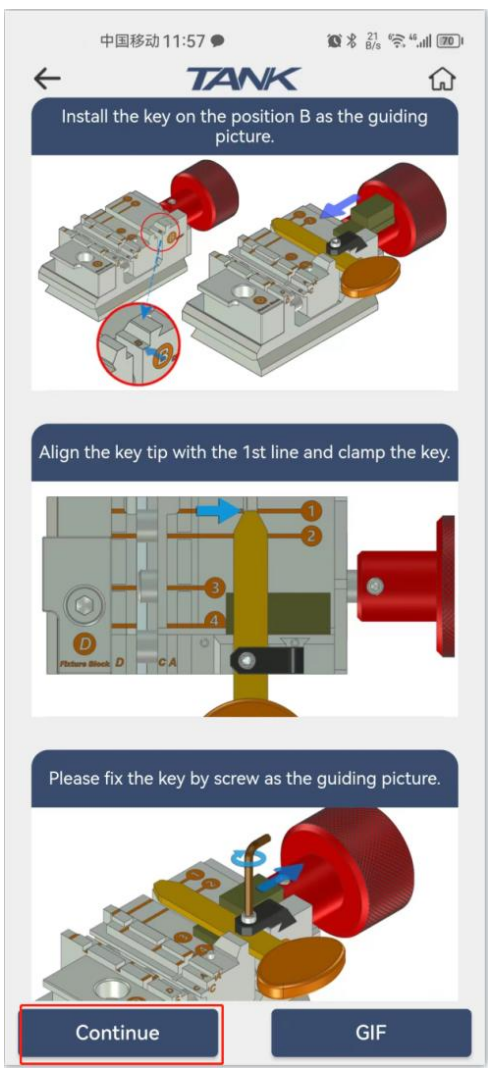
8、 How to use all key lost

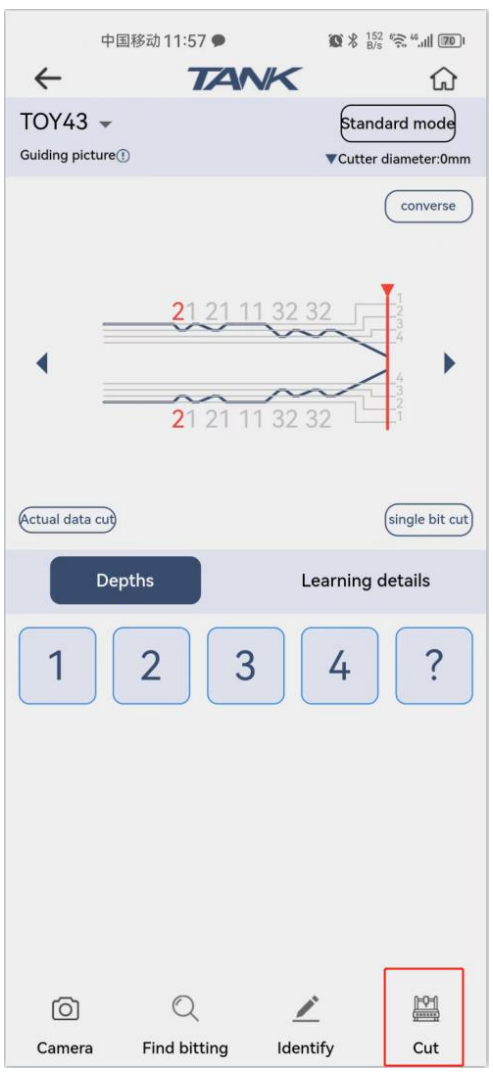




Click ‘all key lost’ --- ‘Toyota’ --- Input’ lock number’ --- ‘search’



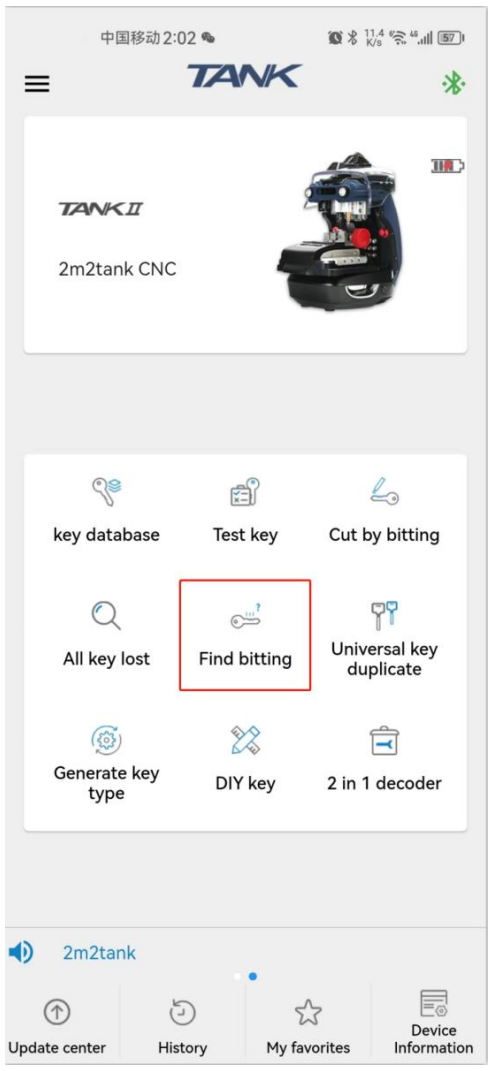


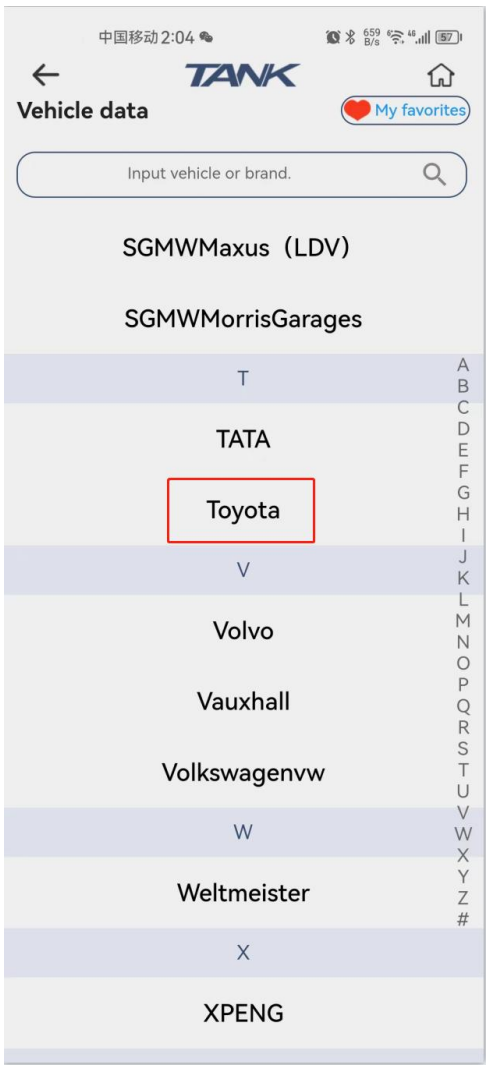


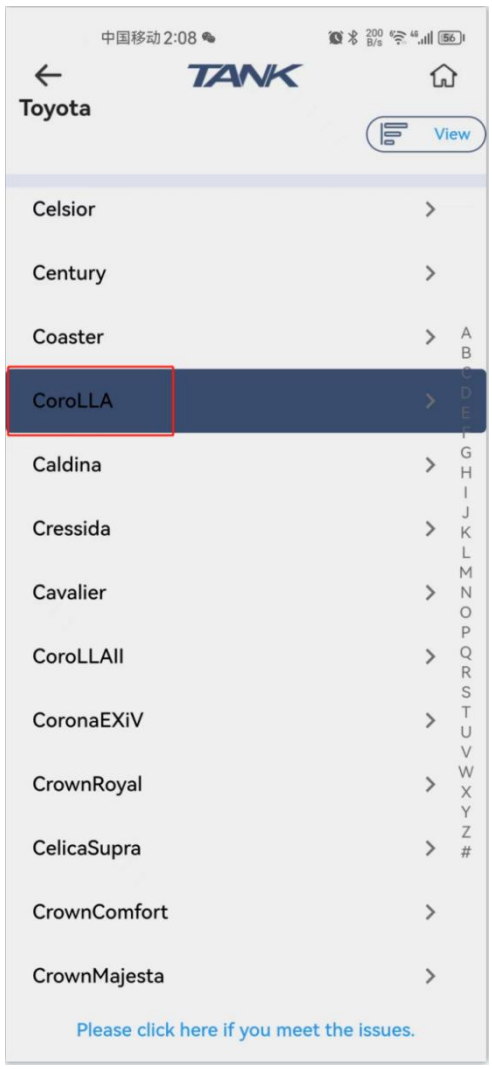
Click ‘TOY43’ --- ‘Continue’ --- ‘Cut’

*Operation depend on App guide

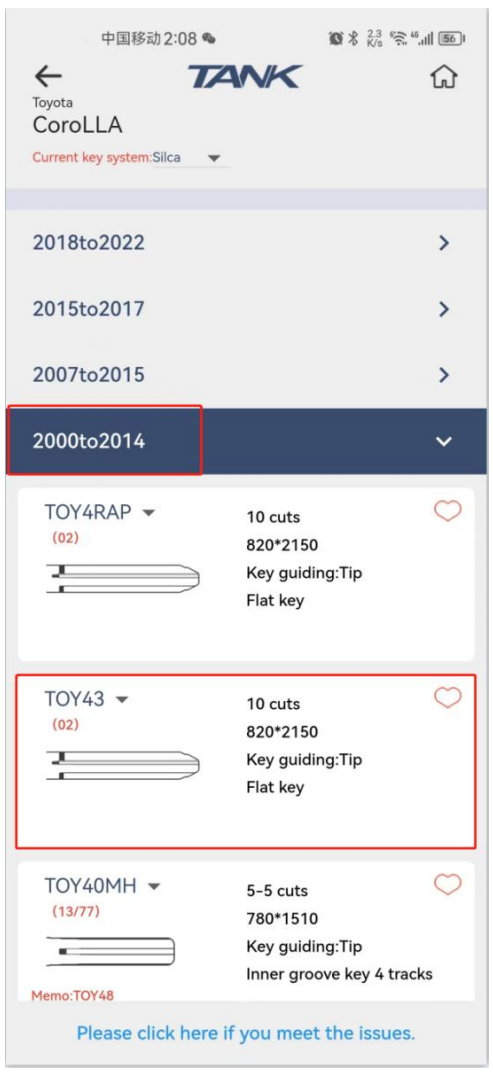
9、 How to use ‘Find bitting’ ? （Toyota as sample)

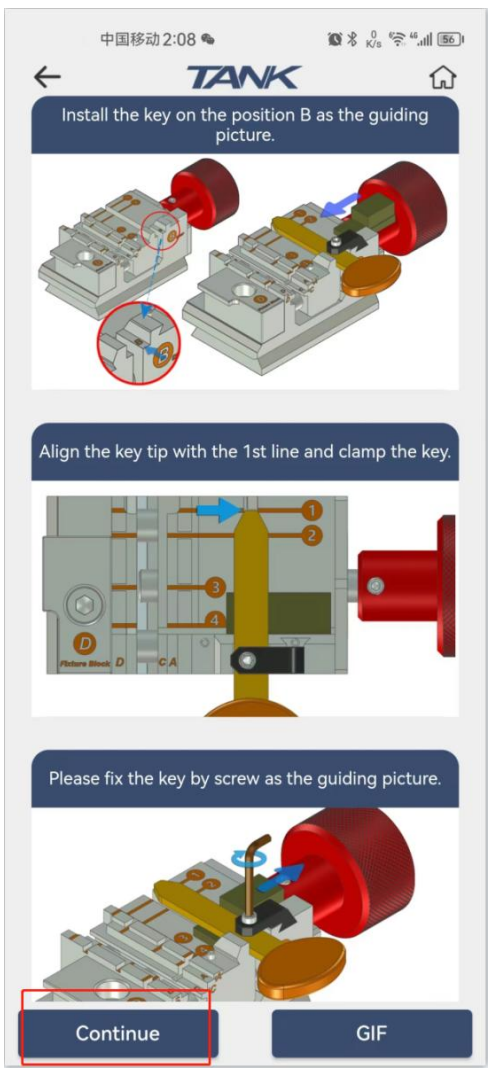




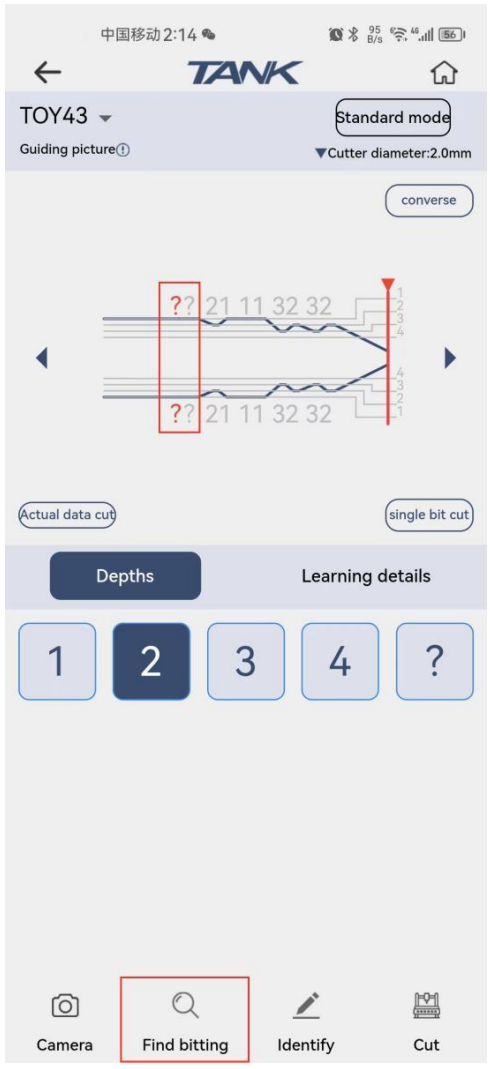


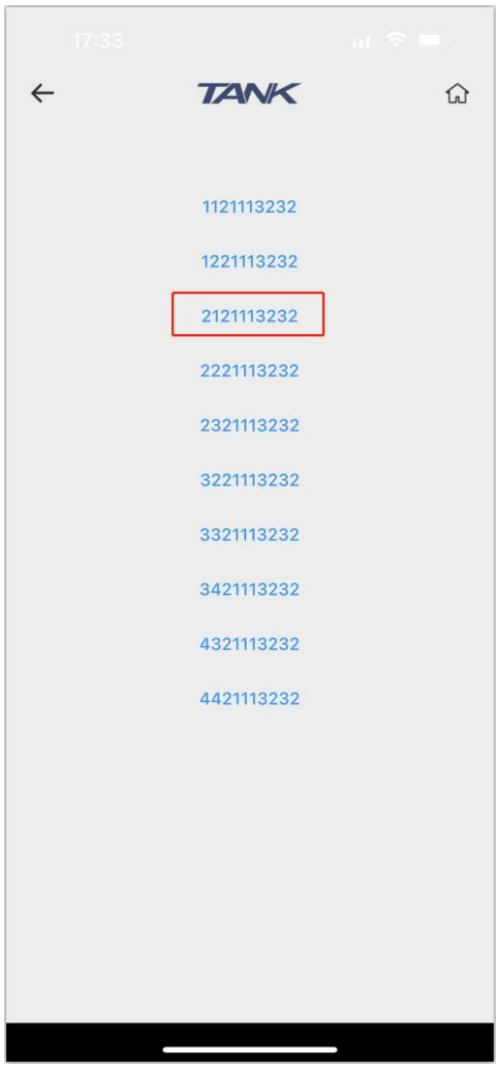
Click ‘find bitting’ --- ‘Toyota’ --- ‘Corolla’





Click ‘TOY43’ --- ‘Continue’ ---



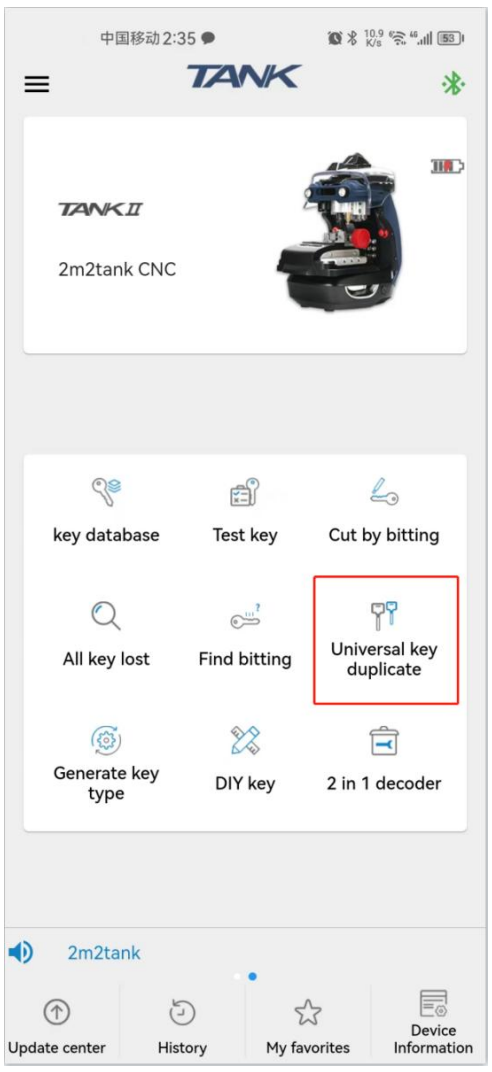


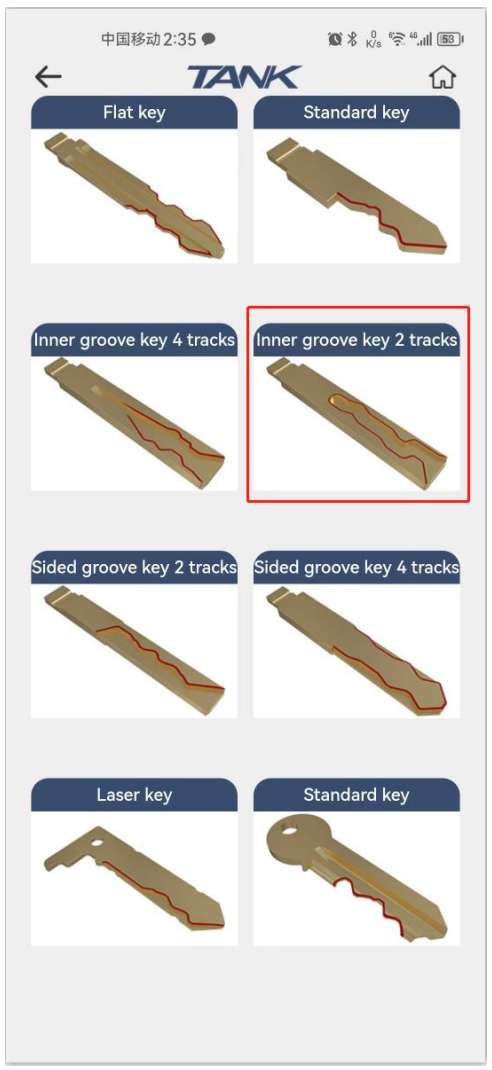
Input door bitting and then click ‘Find bitting’

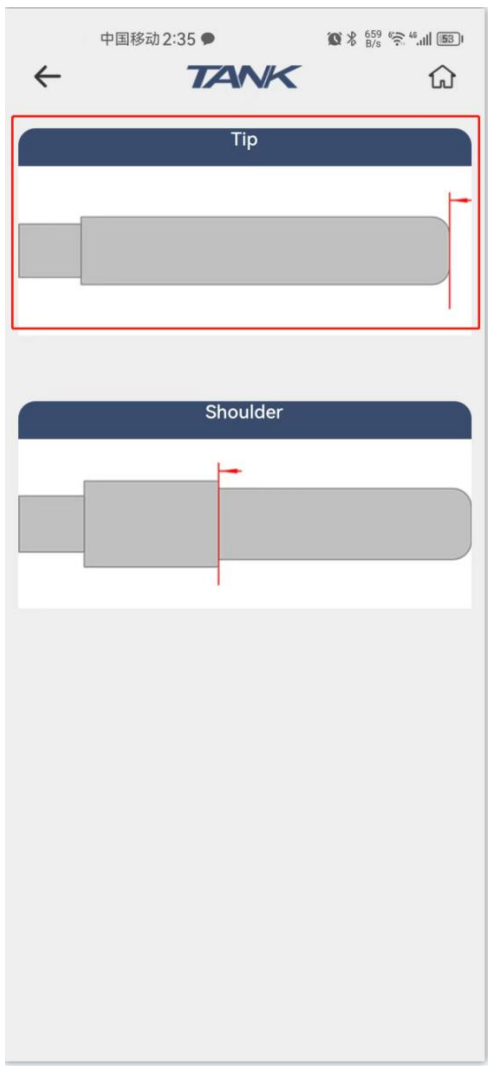
If key bitting appear,and then cut it one by one.

*Operation depend on App guide

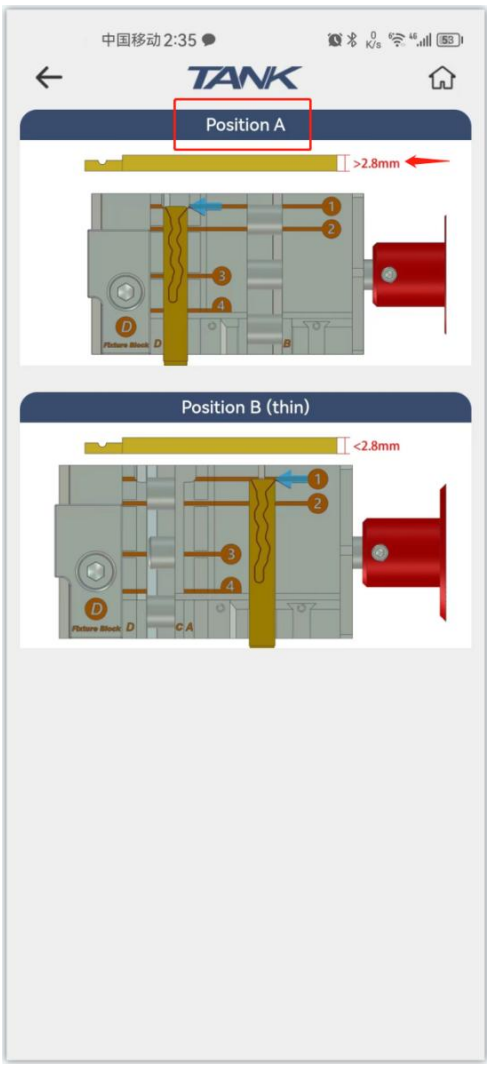
10、How to use ‘universal key duplicate’？(Inner groove key 2 tracks as sample)

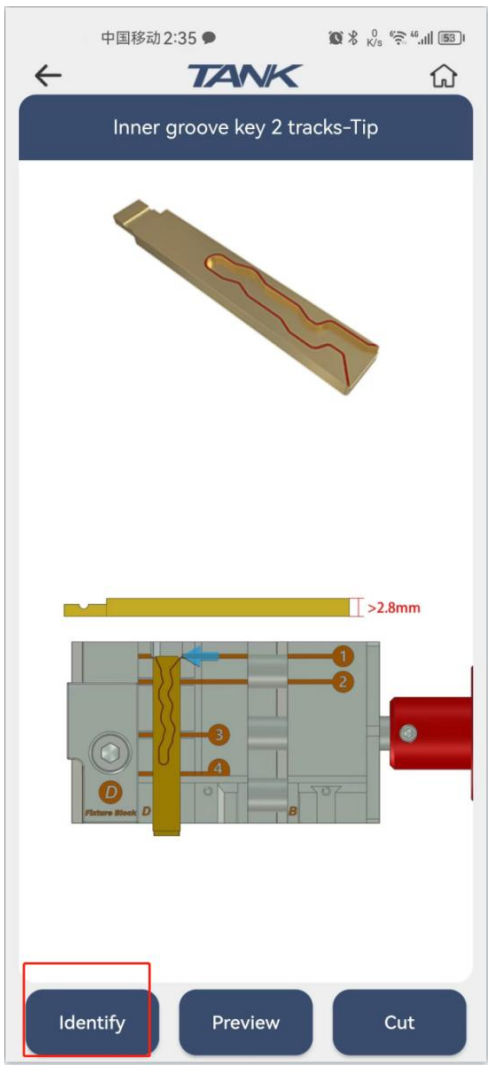


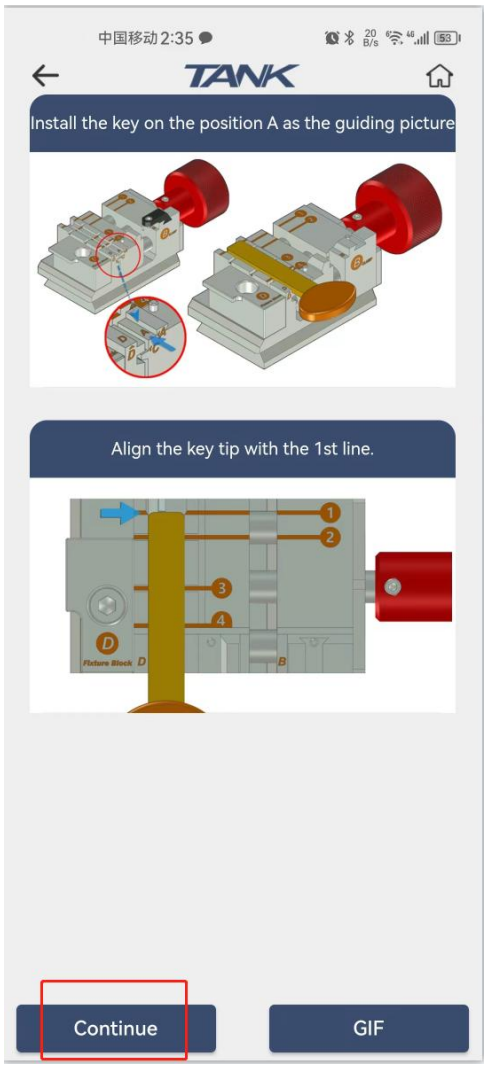




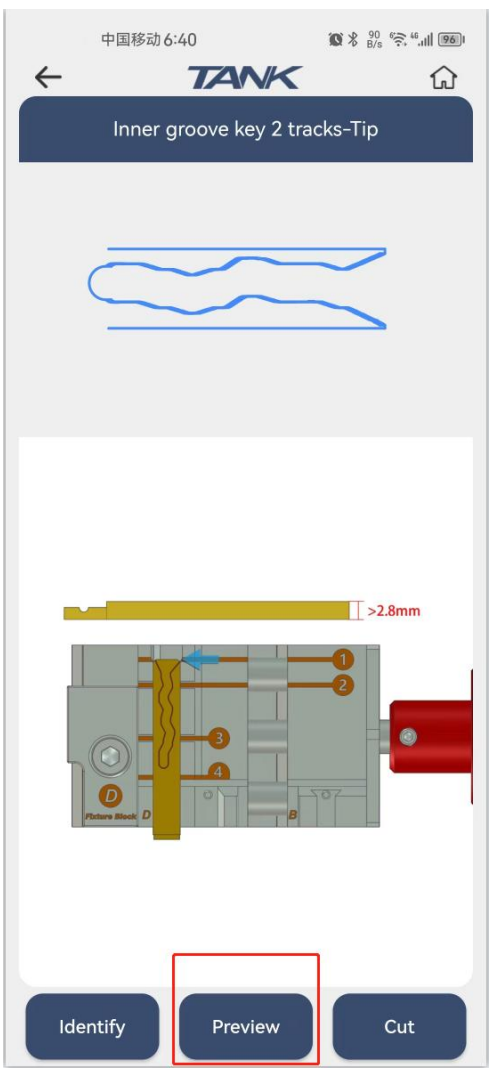
Click ‘universal key duplicate’--- ‘Inner groove key 2 tracks‘ --- ’Tip’

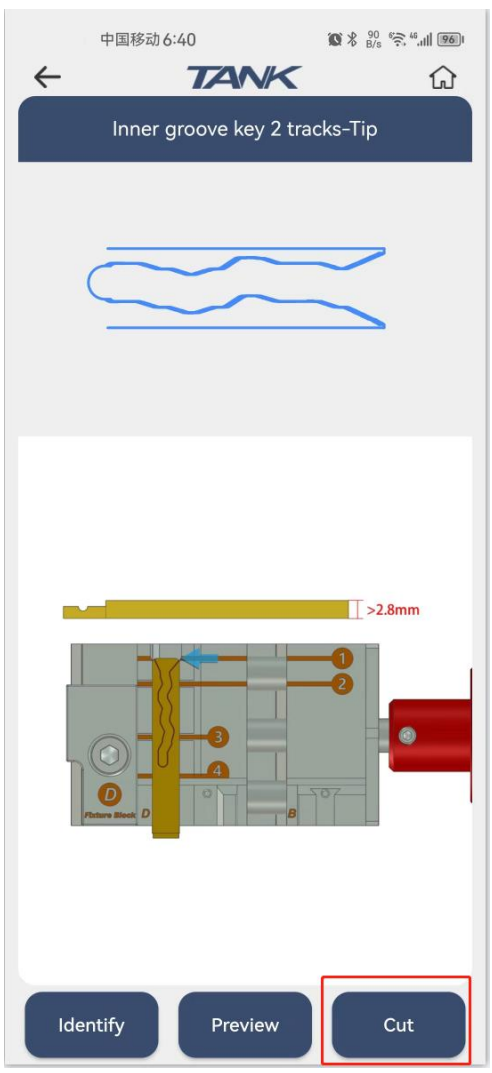






Select’ >2.8mm ‘ ---’ Identify’ --- ‘Continue’

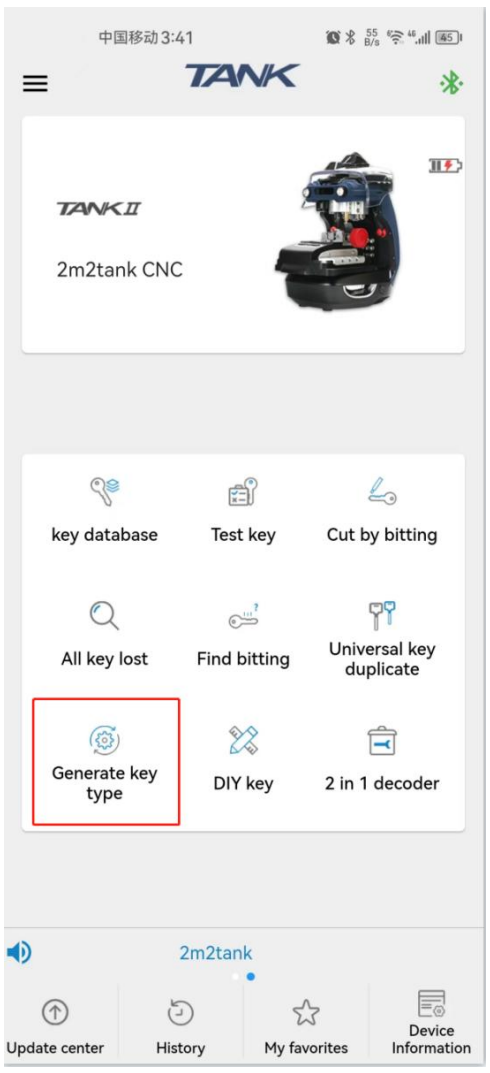


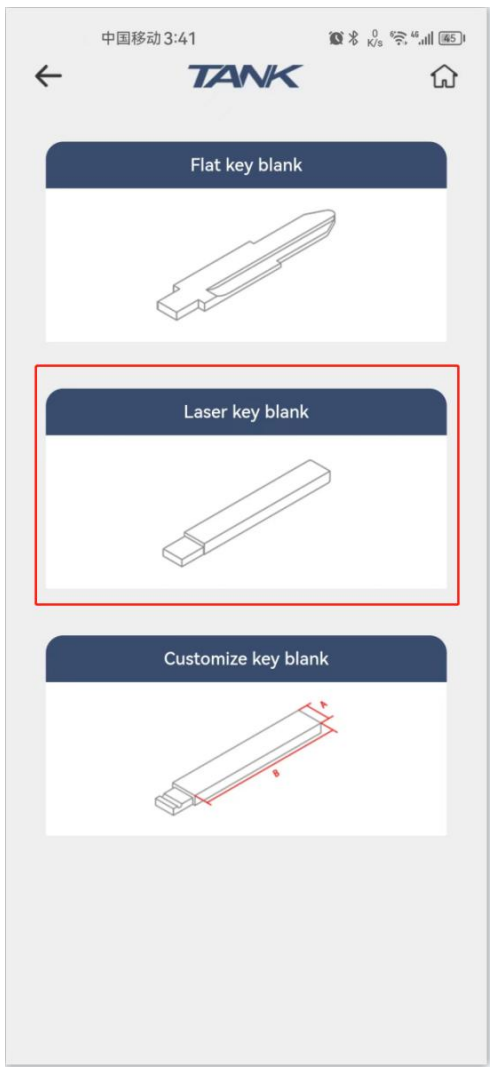


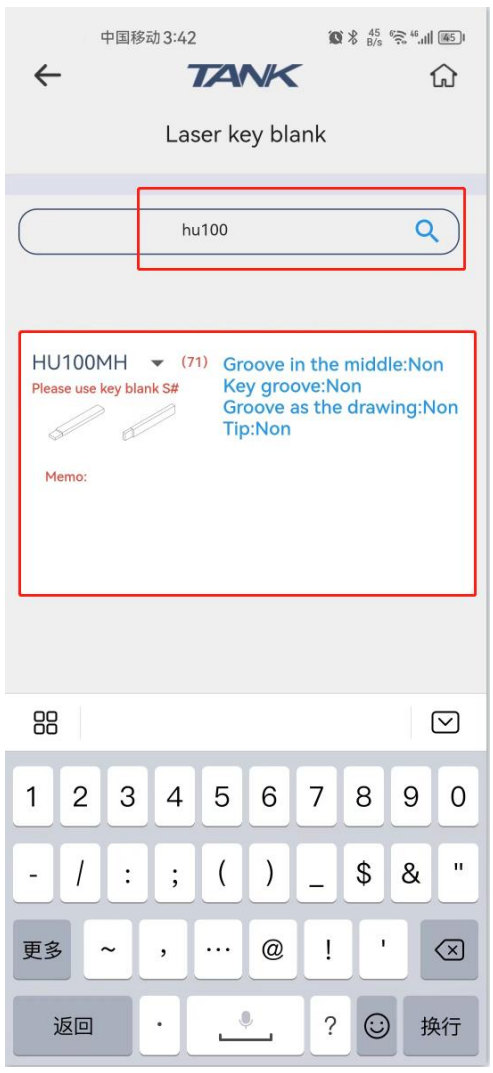
Click ‘View’ --- ‘ Cut’

11、How to use generate key type?

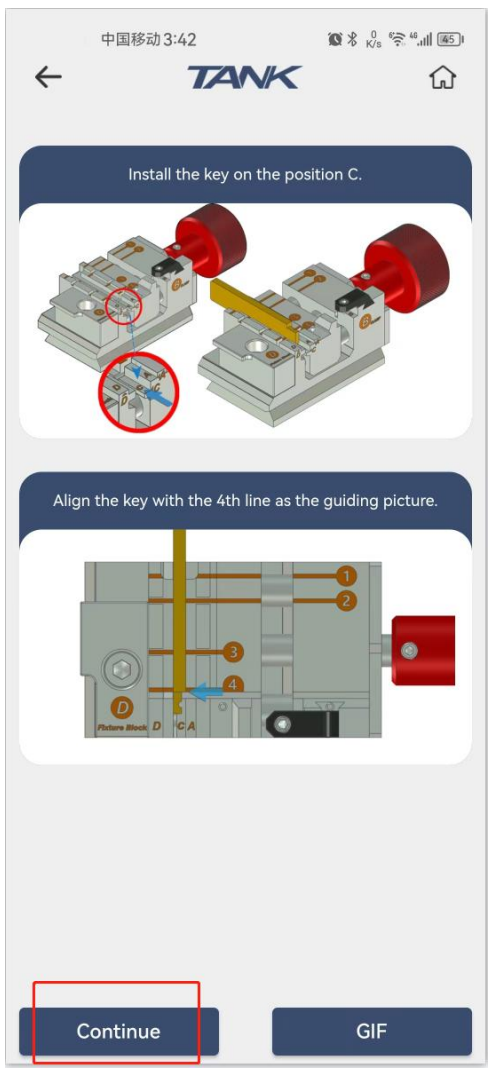
11-1、Generate key type (HU100 as sample)







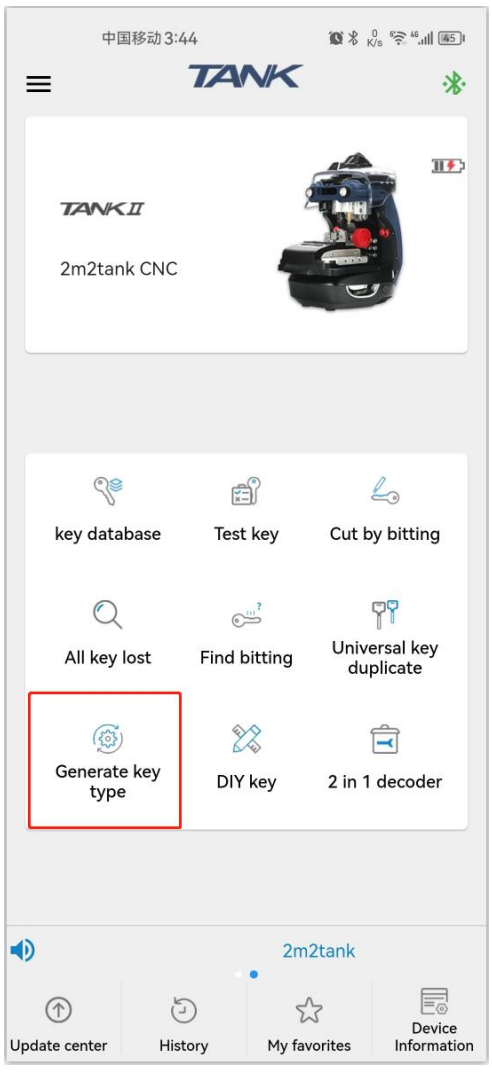
Click ‘generate key type’ --- ’Laser key blank’ --- ‘HU100’

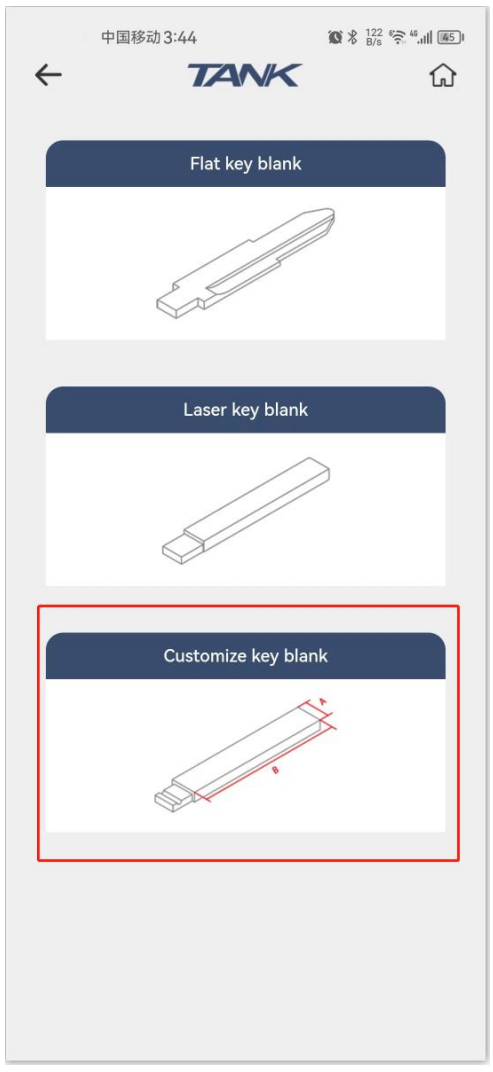


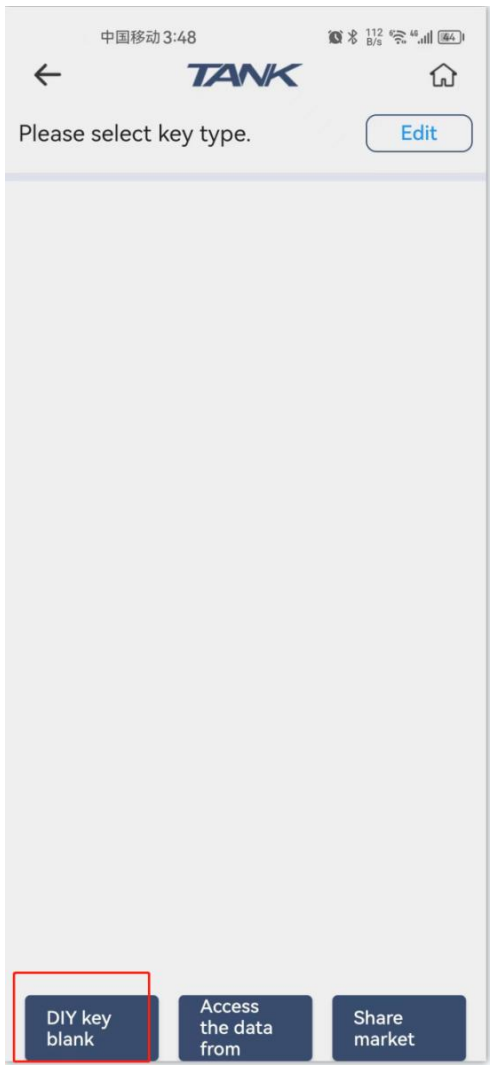
Select ‘key blank S#’ --- ‘Continue’

(*notes: This function just generate key blank, Operation depend on App guide)

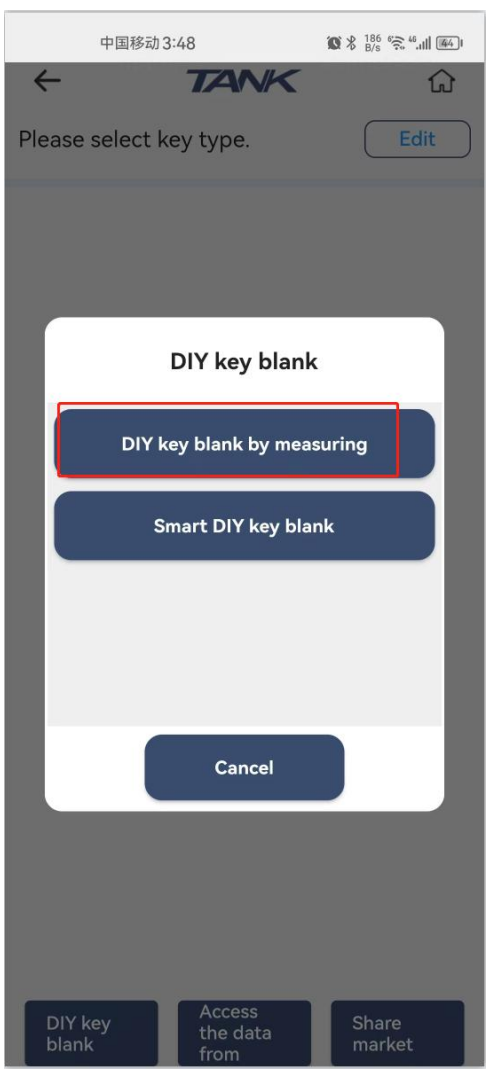
11-2、How to DIY key blank? (HU66 as sample)

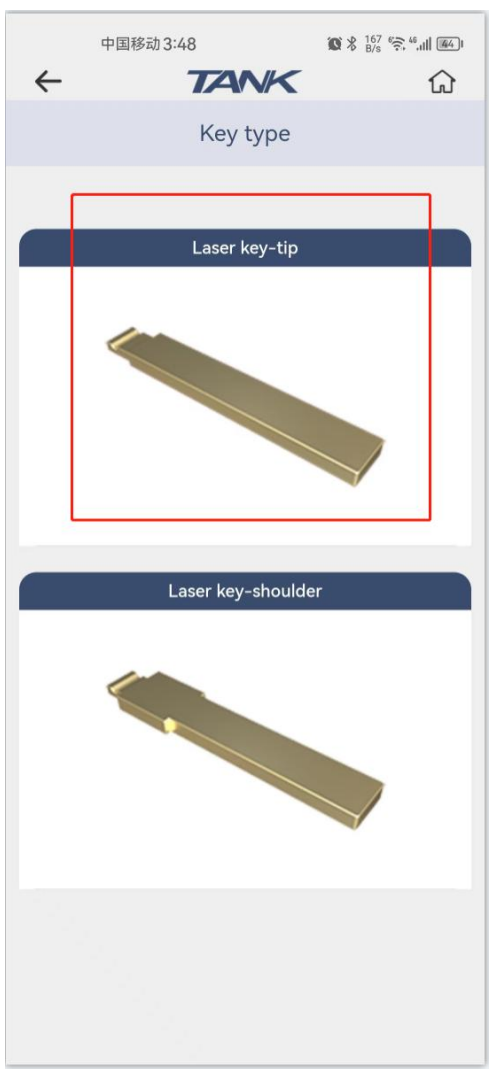


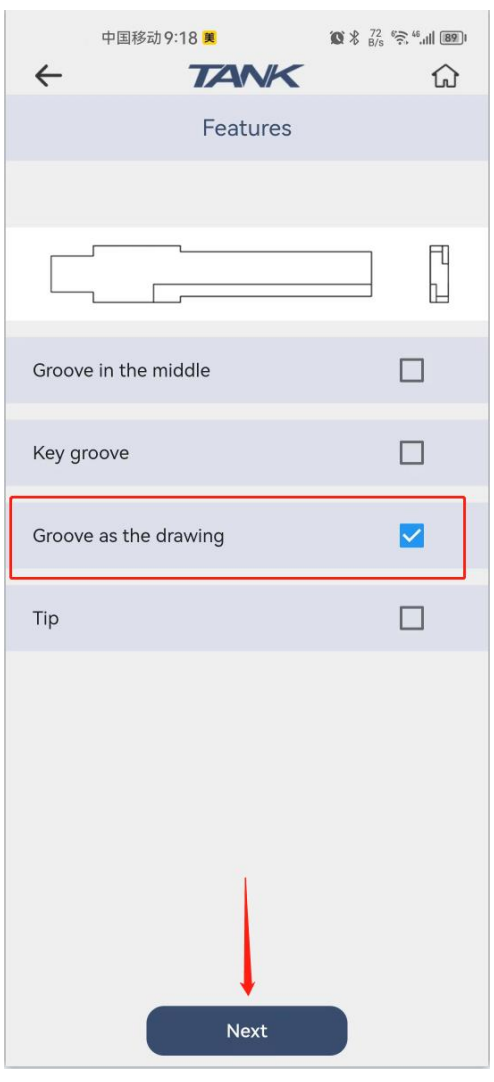




Click’ Generate key type ‘--- ‘Customize key blank’ --- ‘DIY key blank’

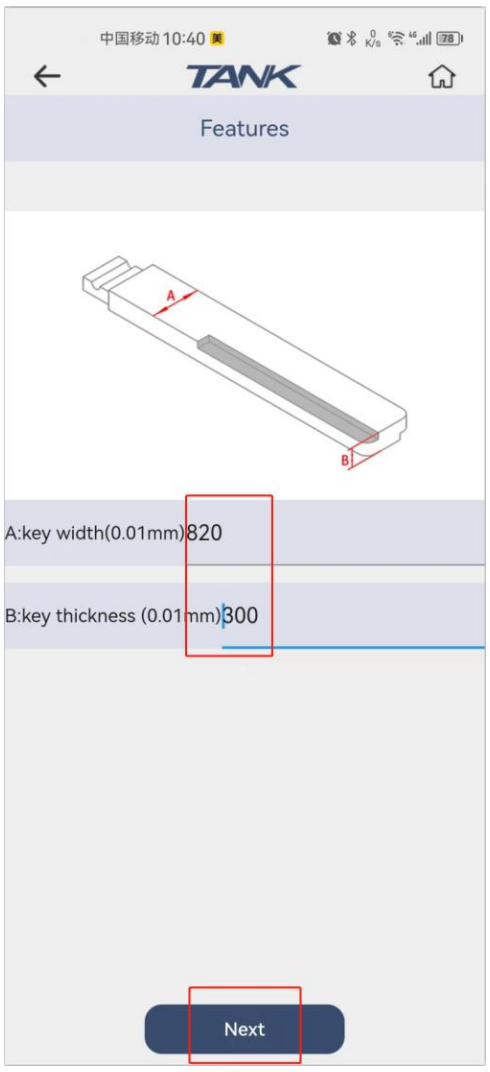


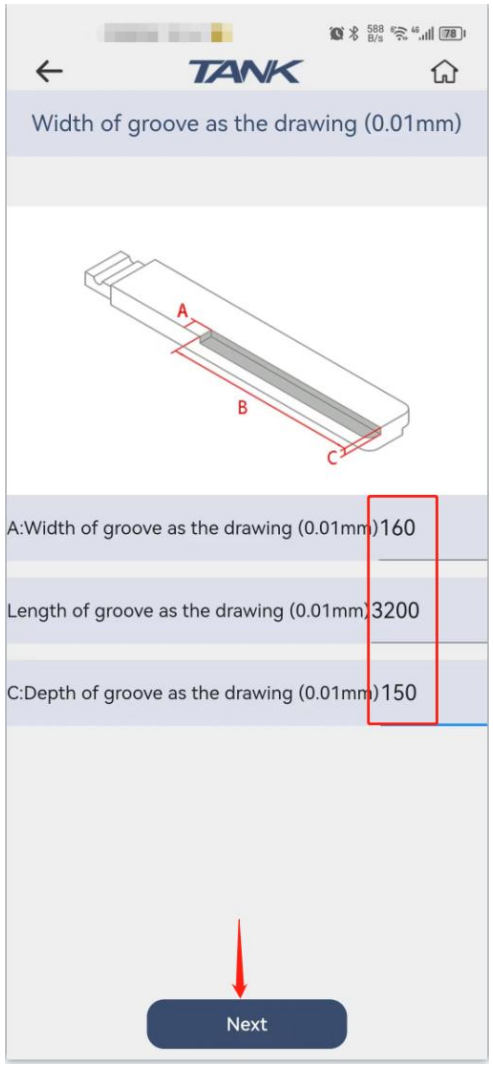


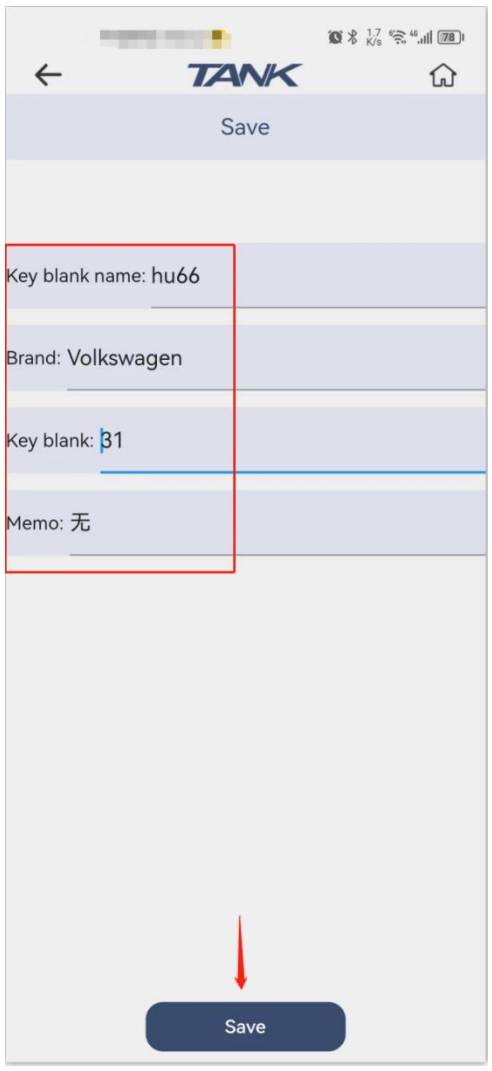


Click’ DIY key blank by measuring’ ---’ Laser key-tip’ ----’ Groove as drawing”--- ‘next’

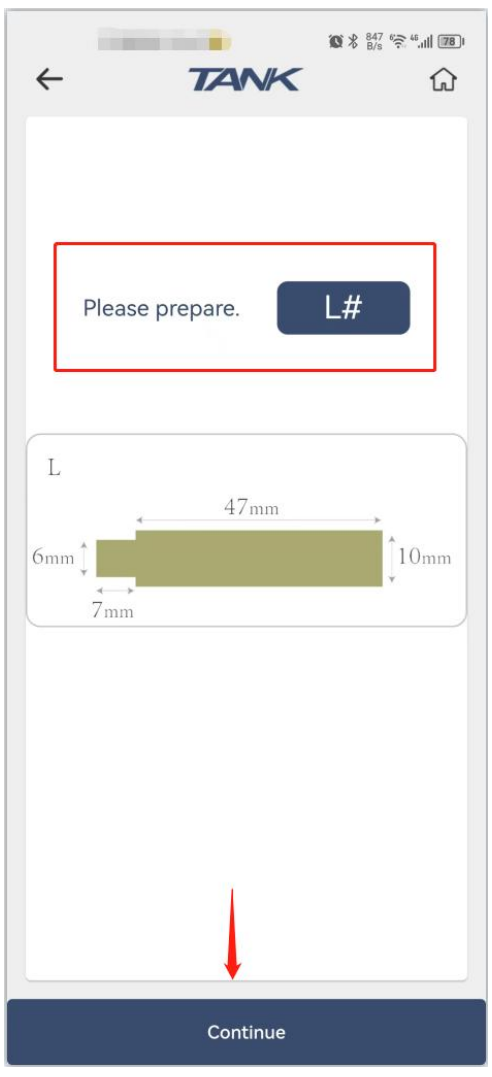
（Unit is 0.01mm）

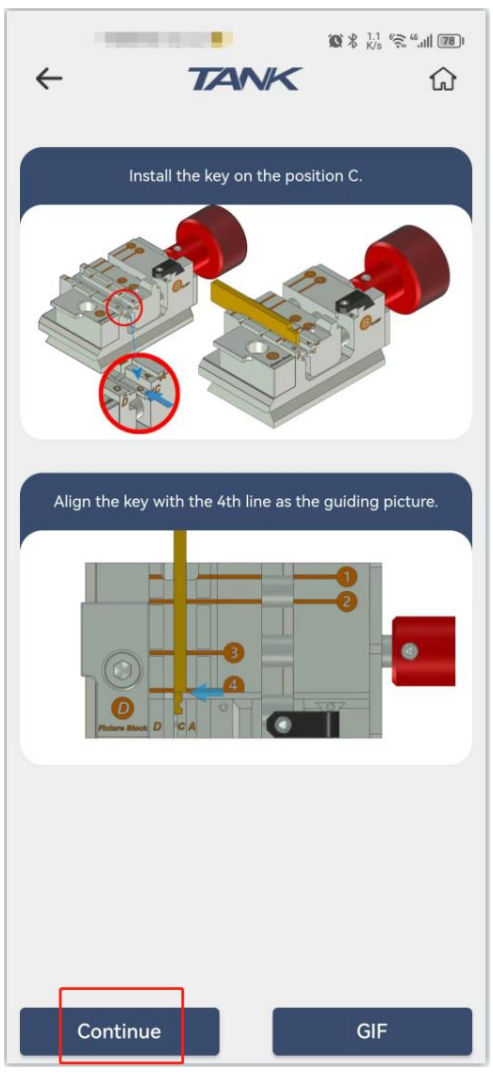






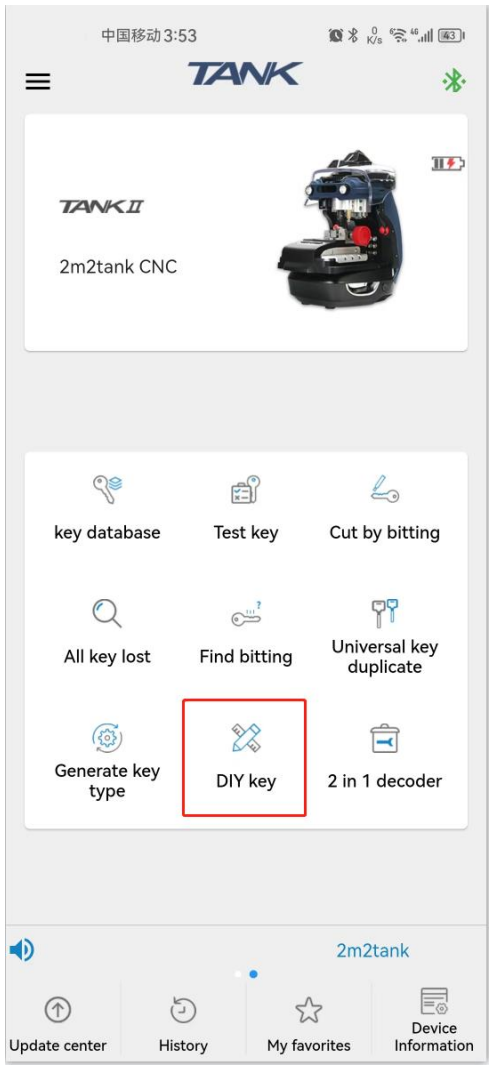
Please input key width,thickness and others depend on measuring.

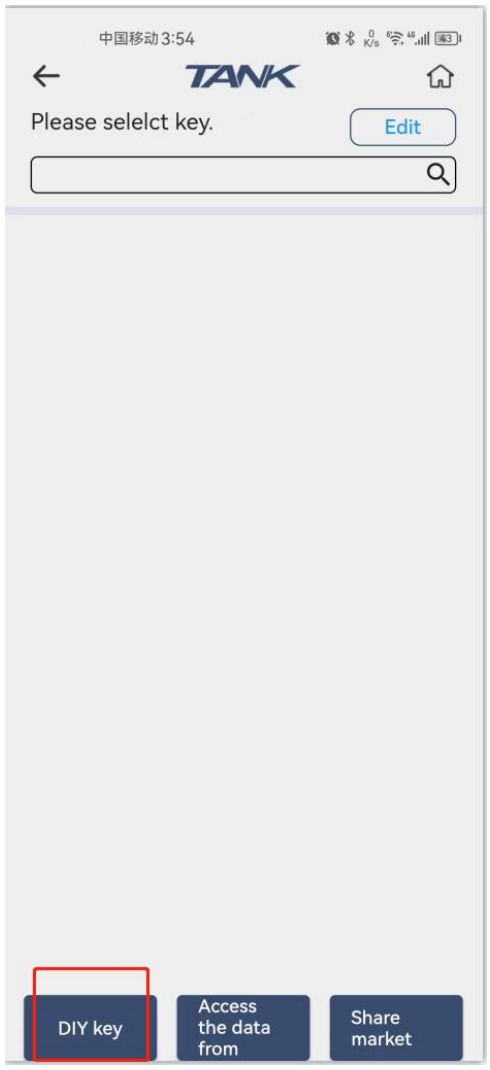




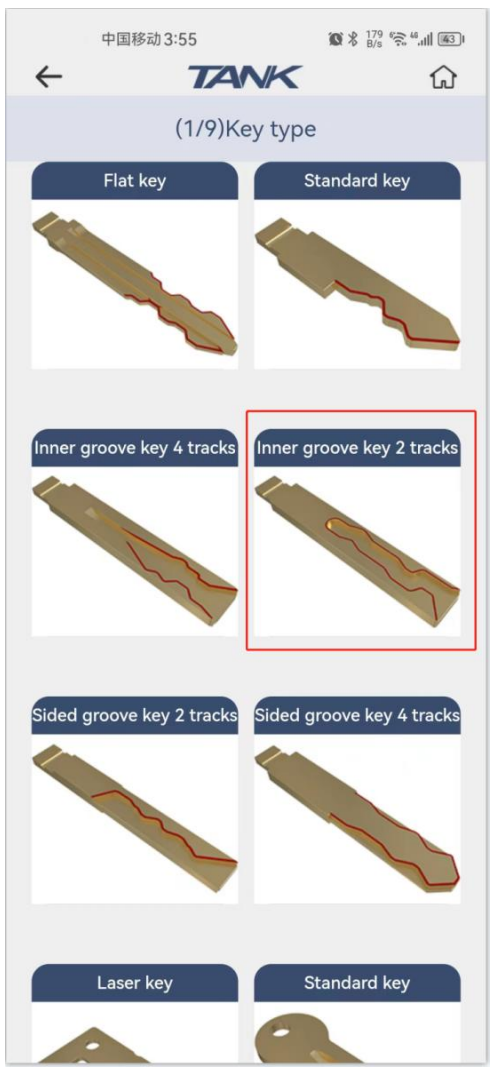
Input key blank name and vehicle information and then click ‘save’, operation depend on the APP guide

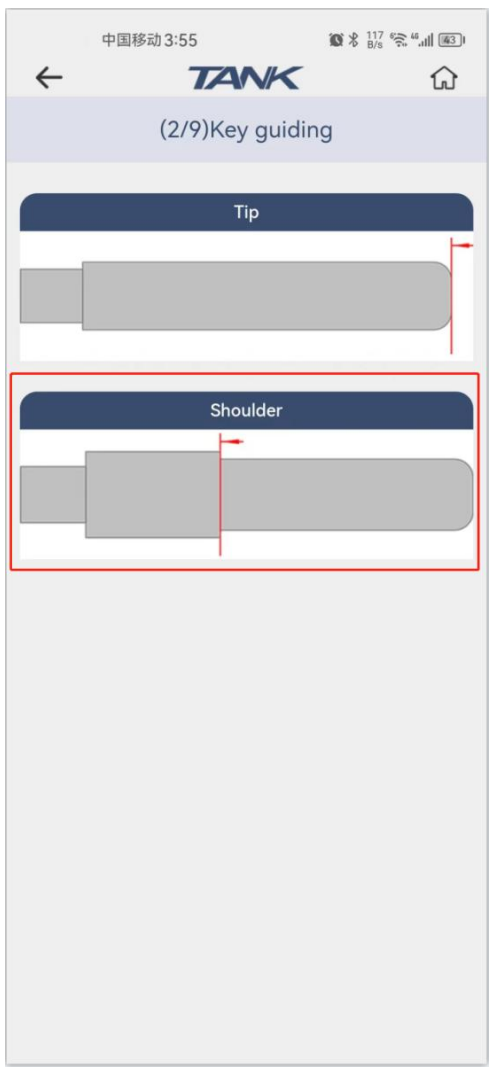
12、How to use ‘ DIY key’ ?(Hu66 as sample)

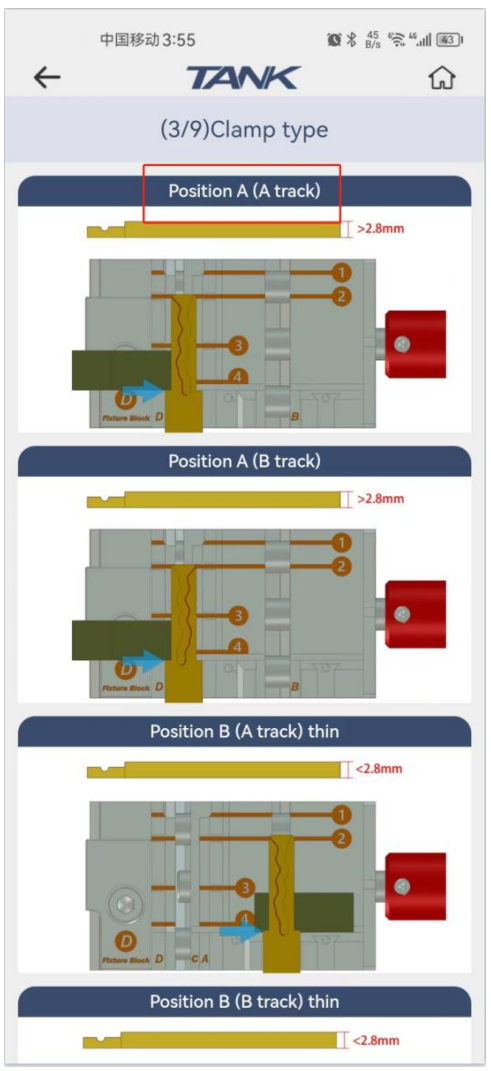




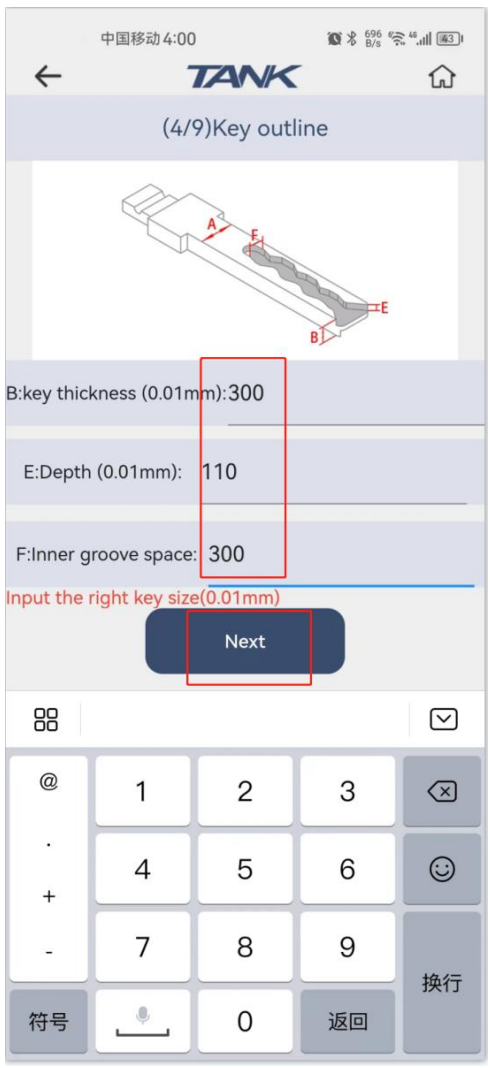
Click’ DIY key ’--- ’ DIY key’ --- ‘DIY key by measuring’

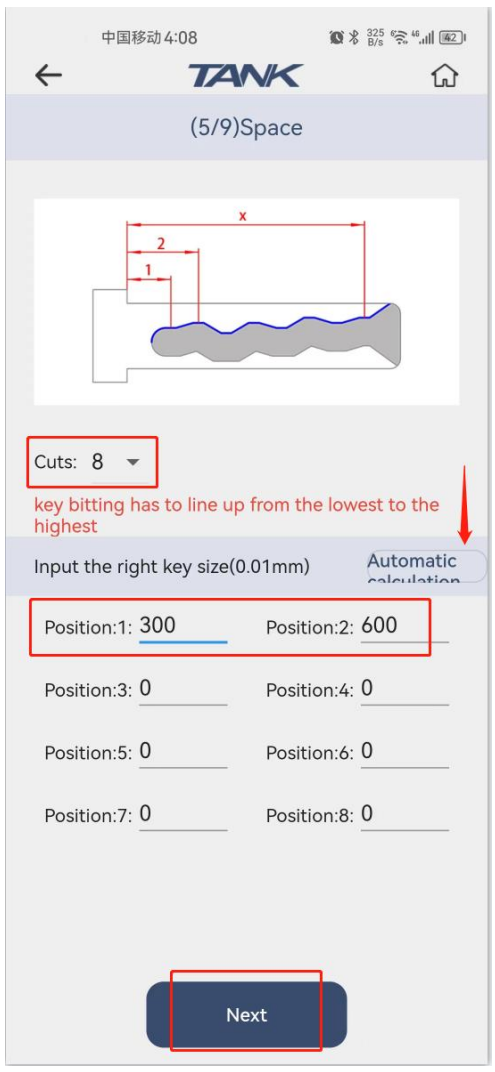


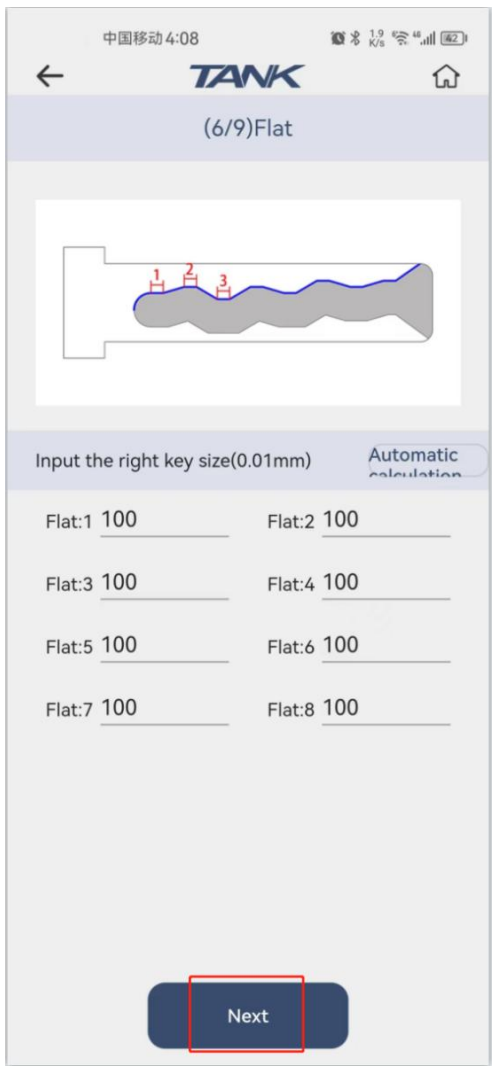




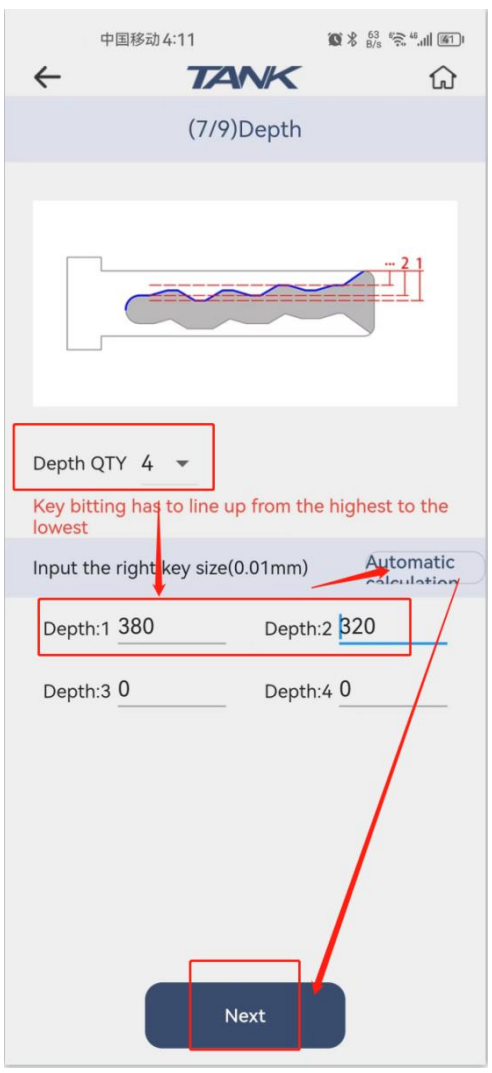
Click’ Inner groove key 2 tracks’--- ‘Shoulder’ --- ‘ Position A (>2.8mm)’

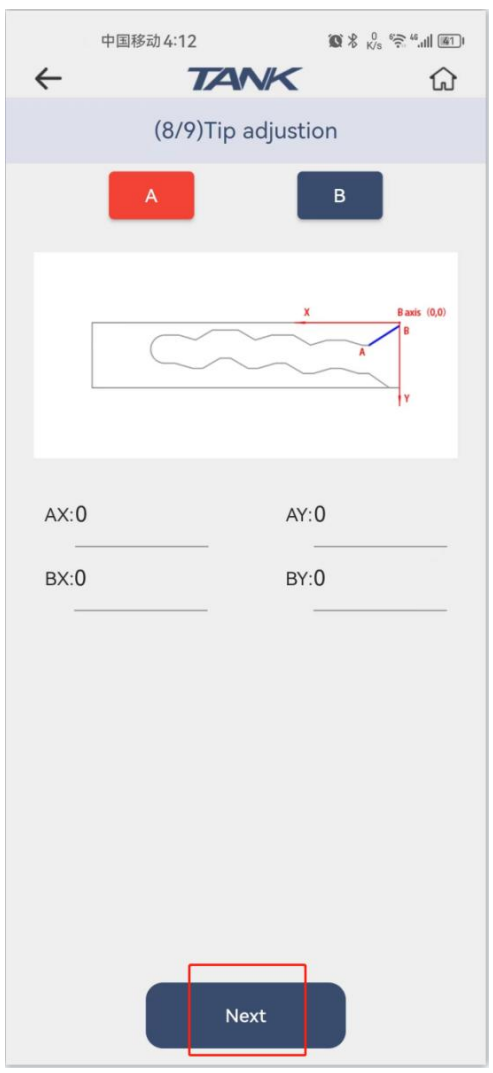


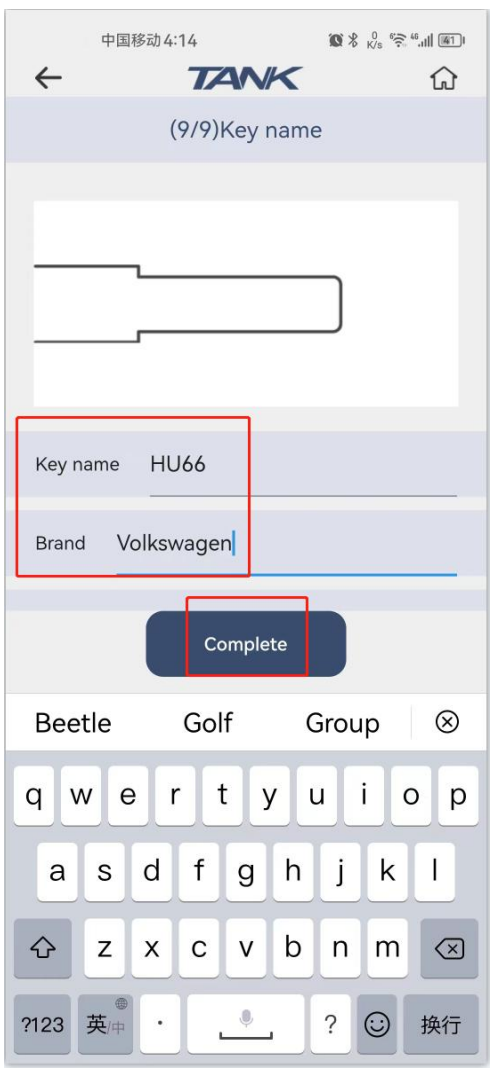




Input key thickness,Depth and other information after measuring (as guide above),and then click ‘next’.

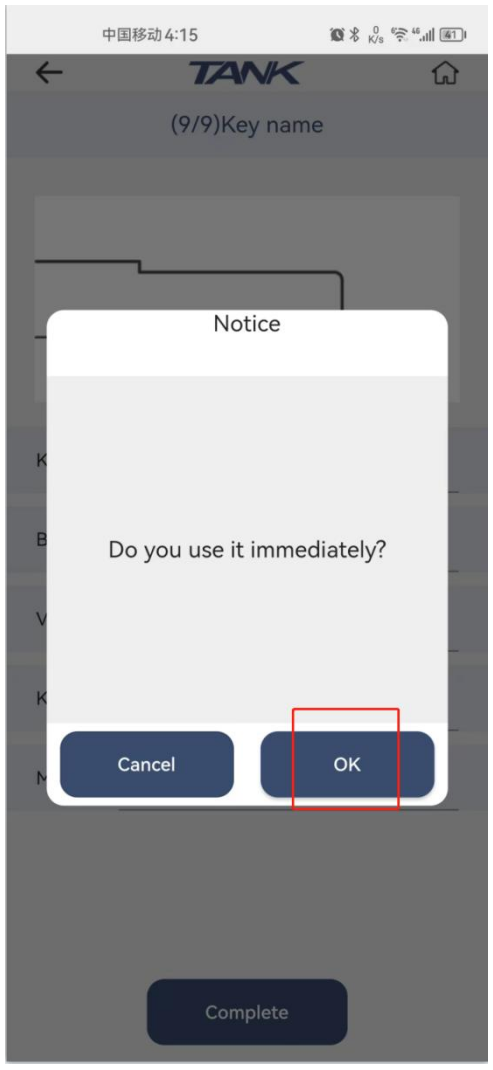






Select Depth QTY and then input volume after measuring.

Input name and click’ complete’.

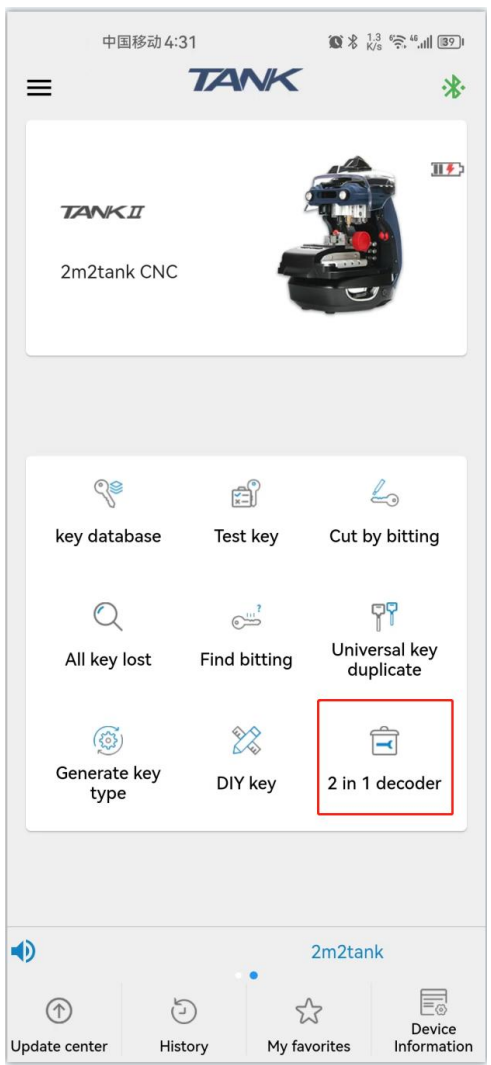


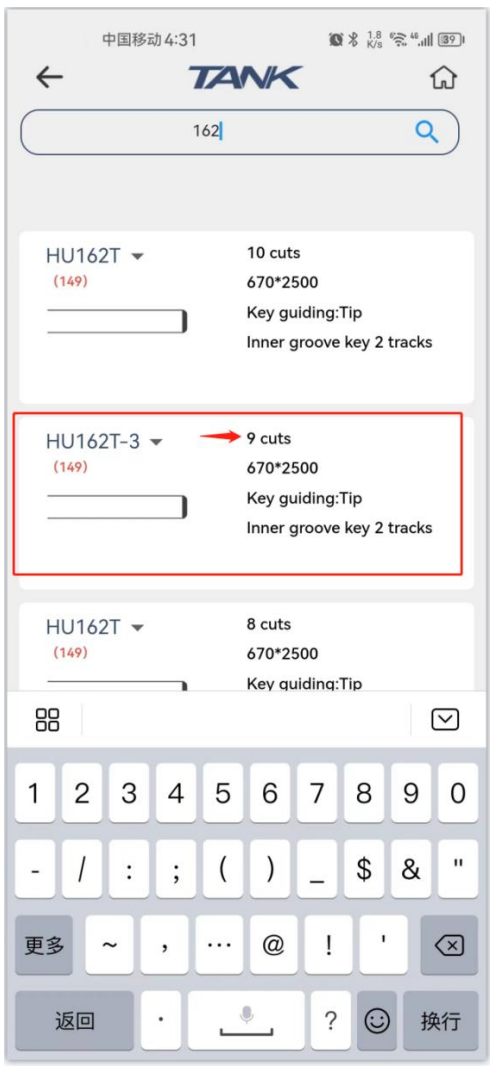
Click : ‘ OK’

***Operation depend on App guide**

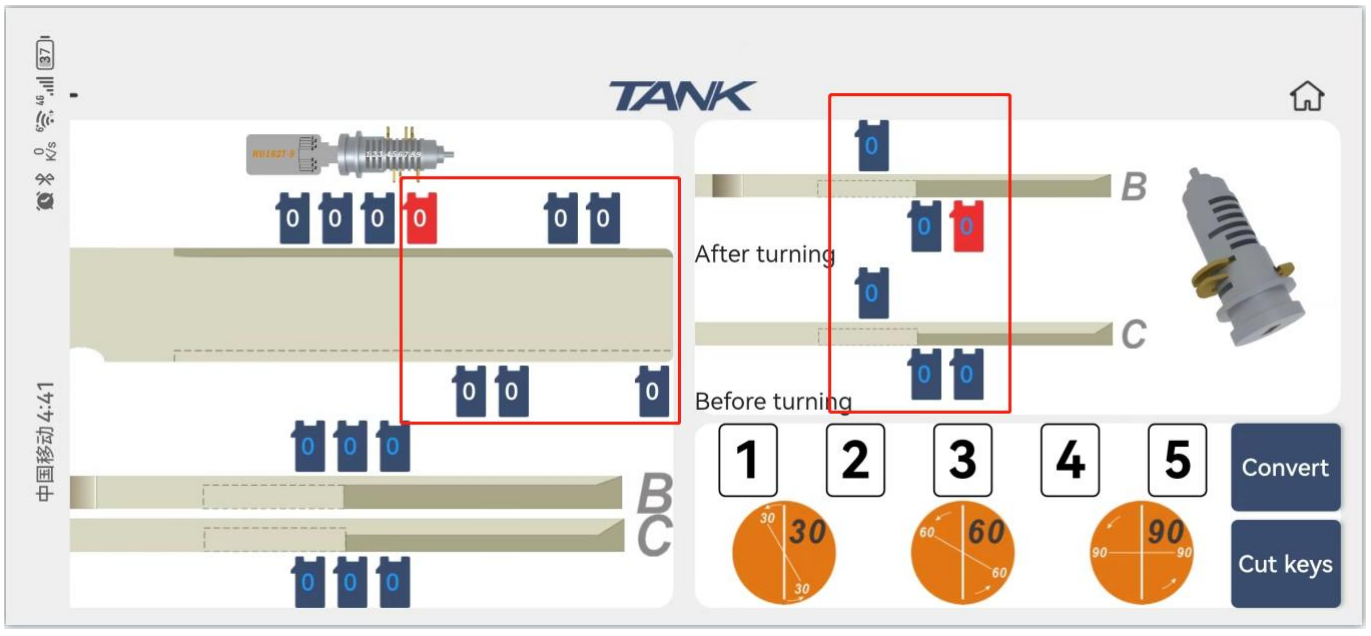
13、 2 in 1 decoder

13-1、How to use ‘2 in 1 decoder’ ?(HU162T-9 cuts as sample)

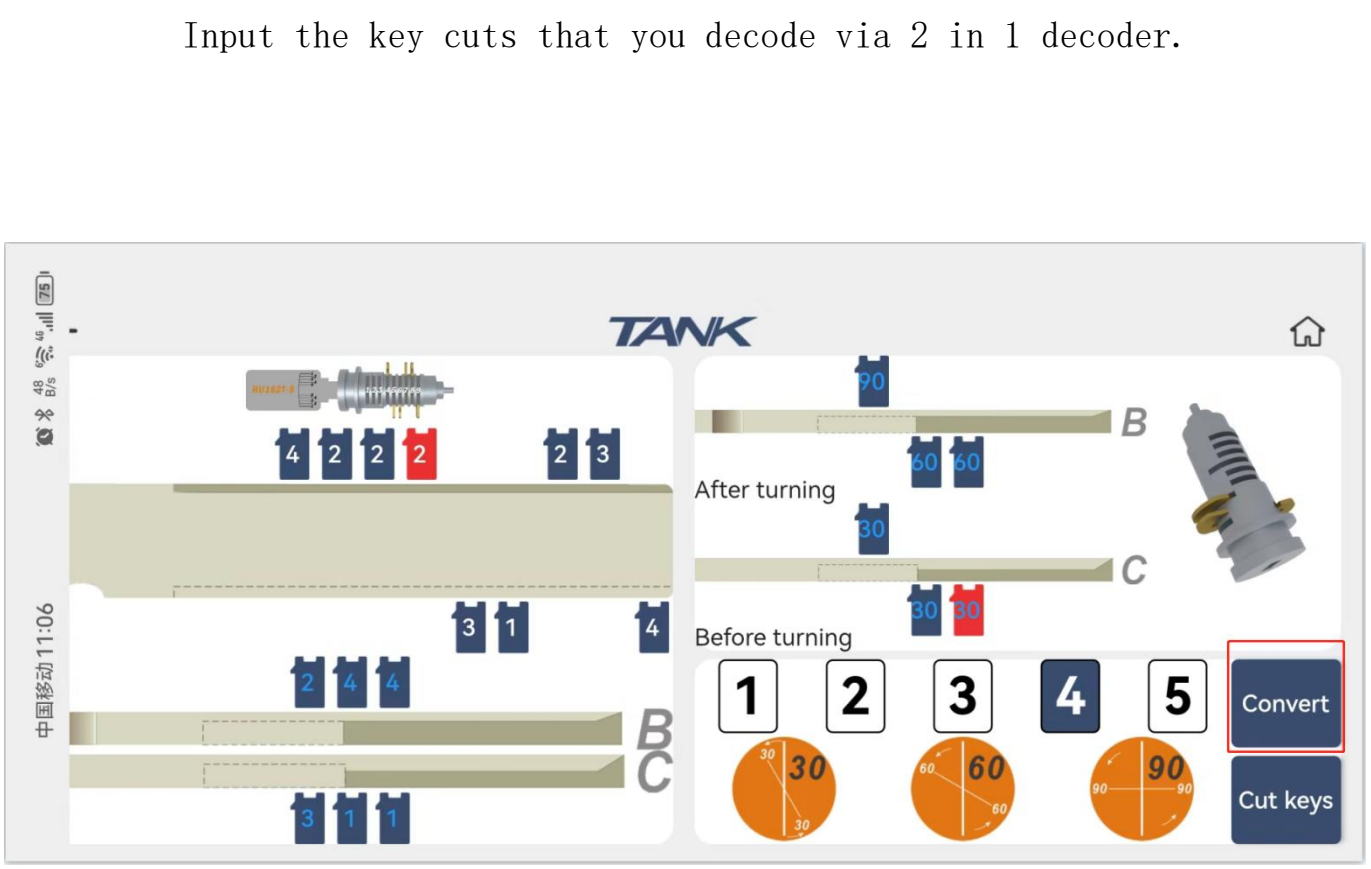




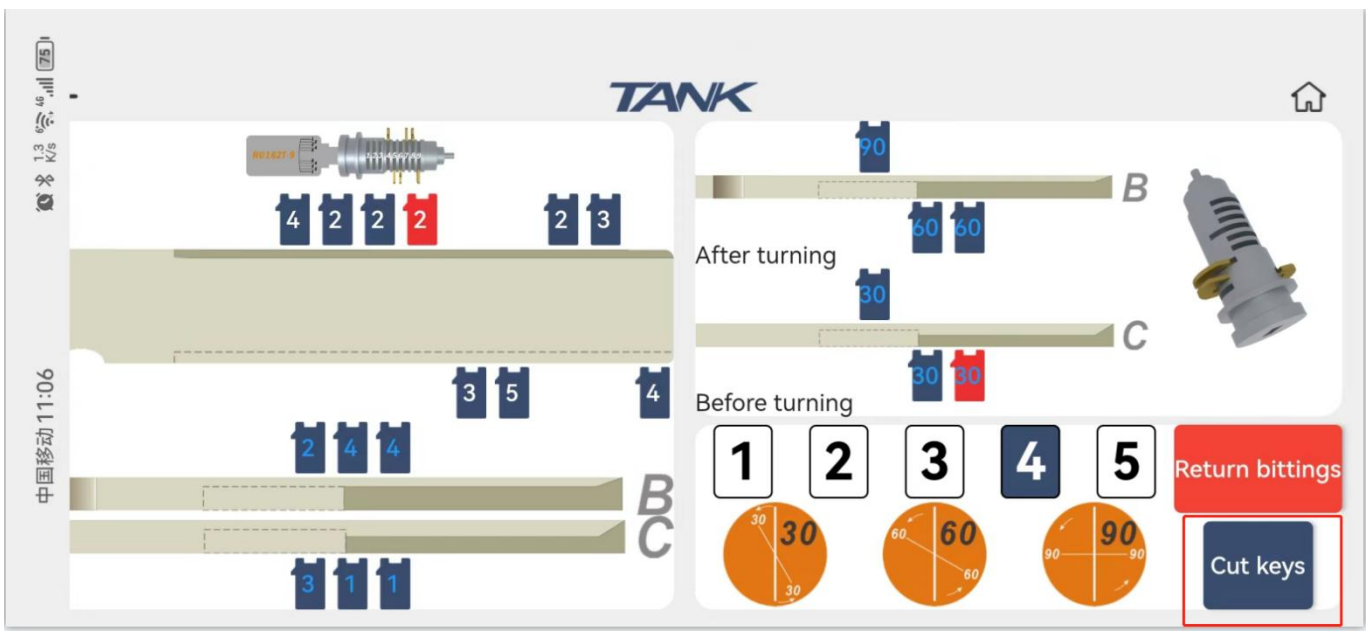
Click ‘2 in 1 decoder ’ --- ‘HU162T-9 cuts’



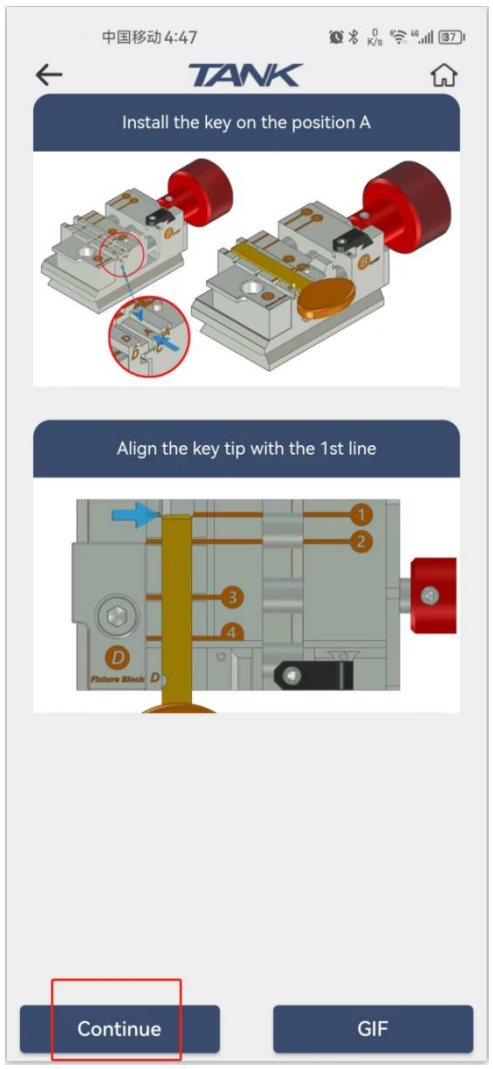
Input the key cuts that you decode via 2 in 1 decoder.



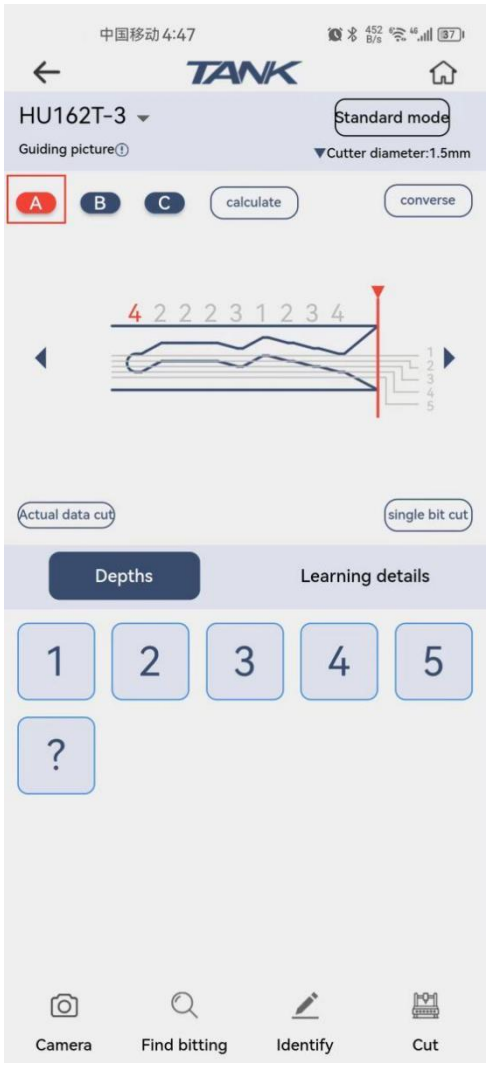
Please click ‘convert’



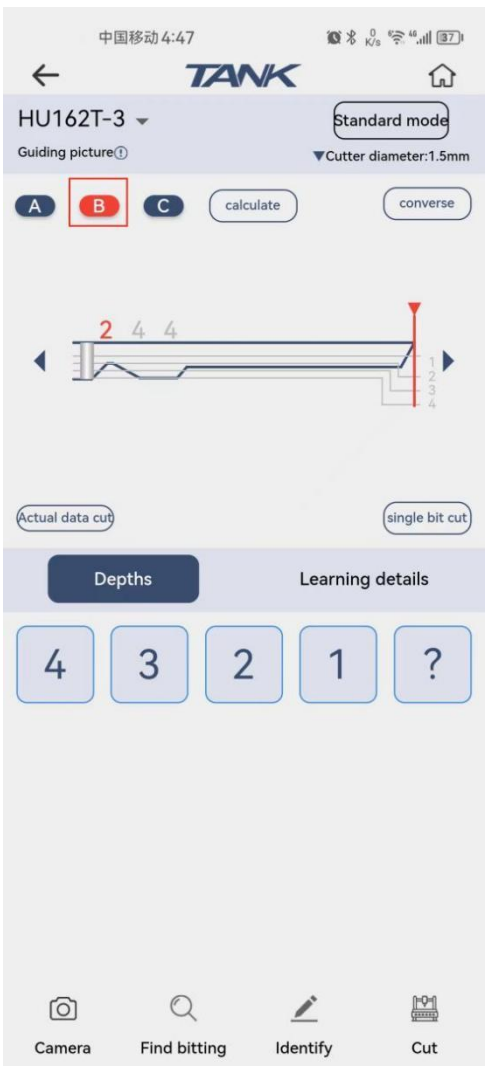
Click ‘Cut key’



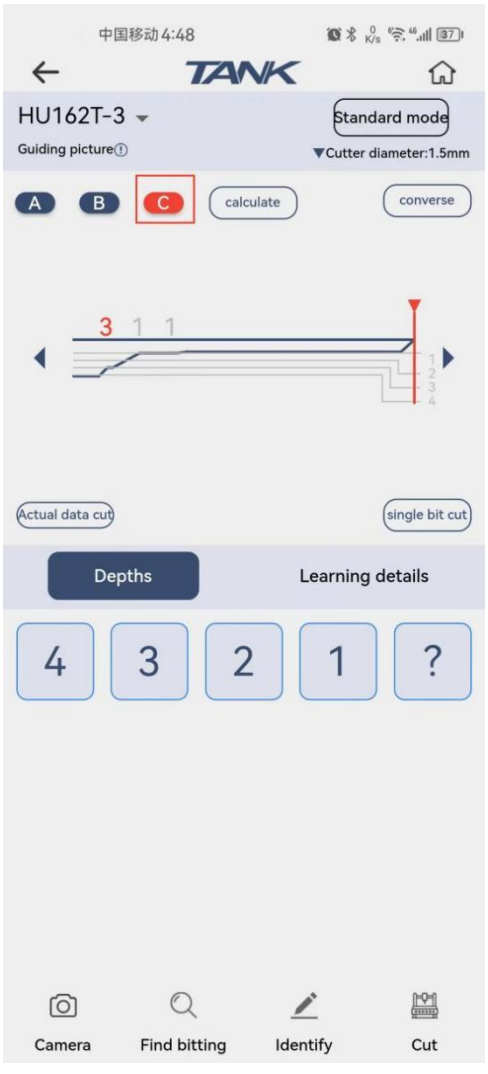
Click ‘continue’



Click ‘A’---’ cut’

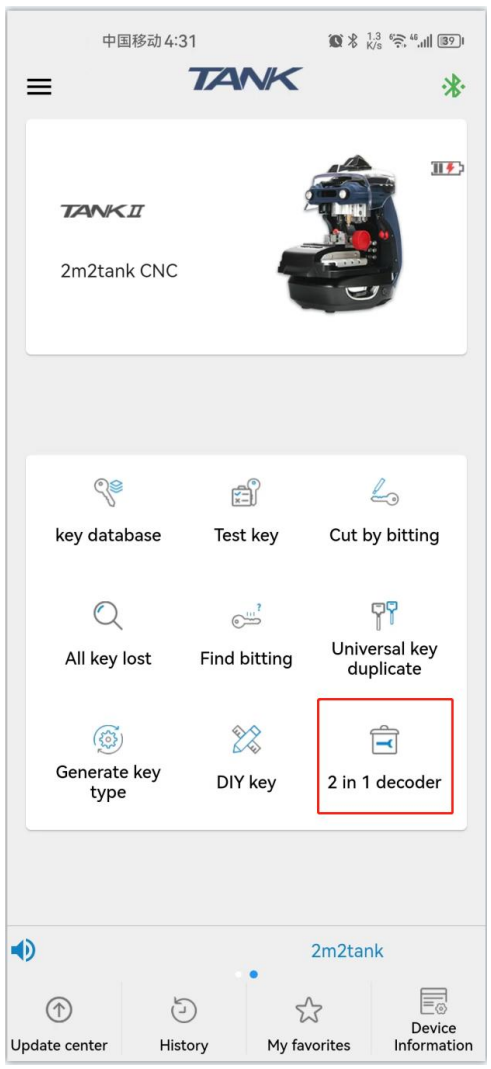


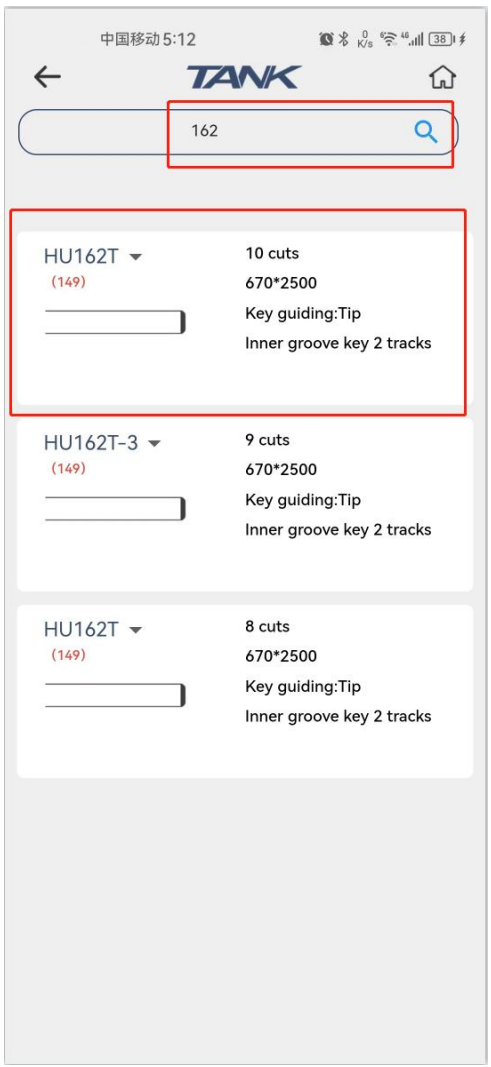
Click ‘B’---’ cut’



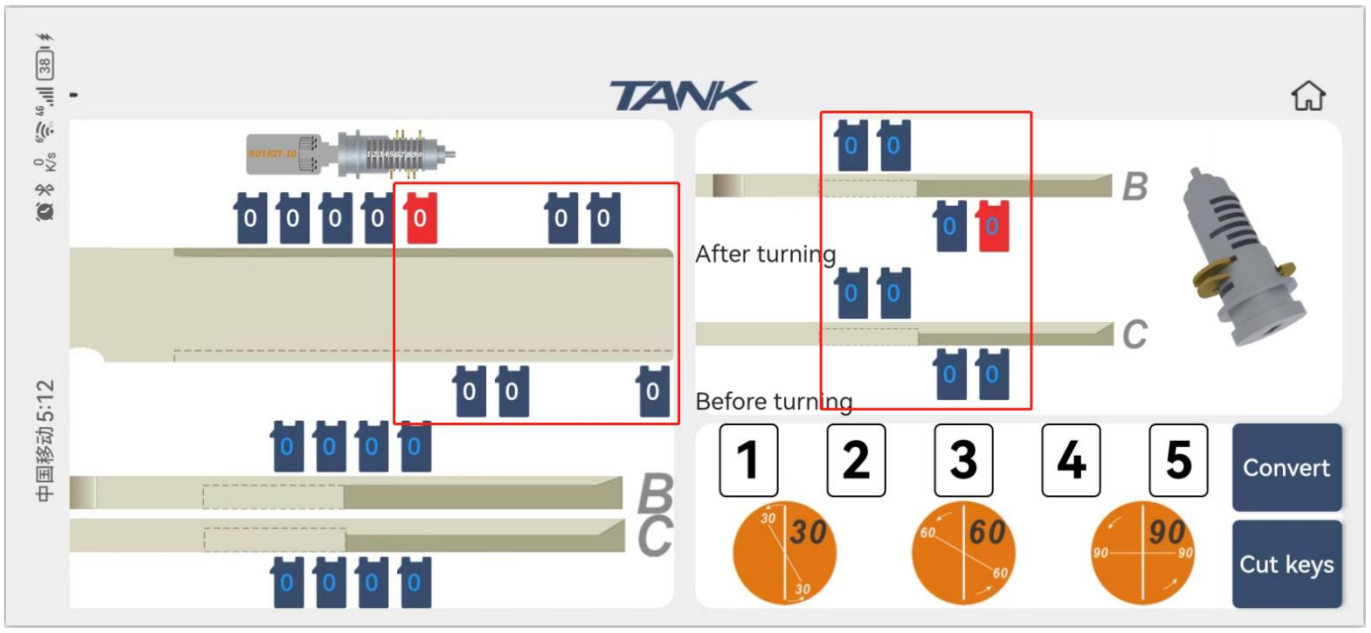
Click ‘C’---’ cut’

13-2 HU162T-10 cuts

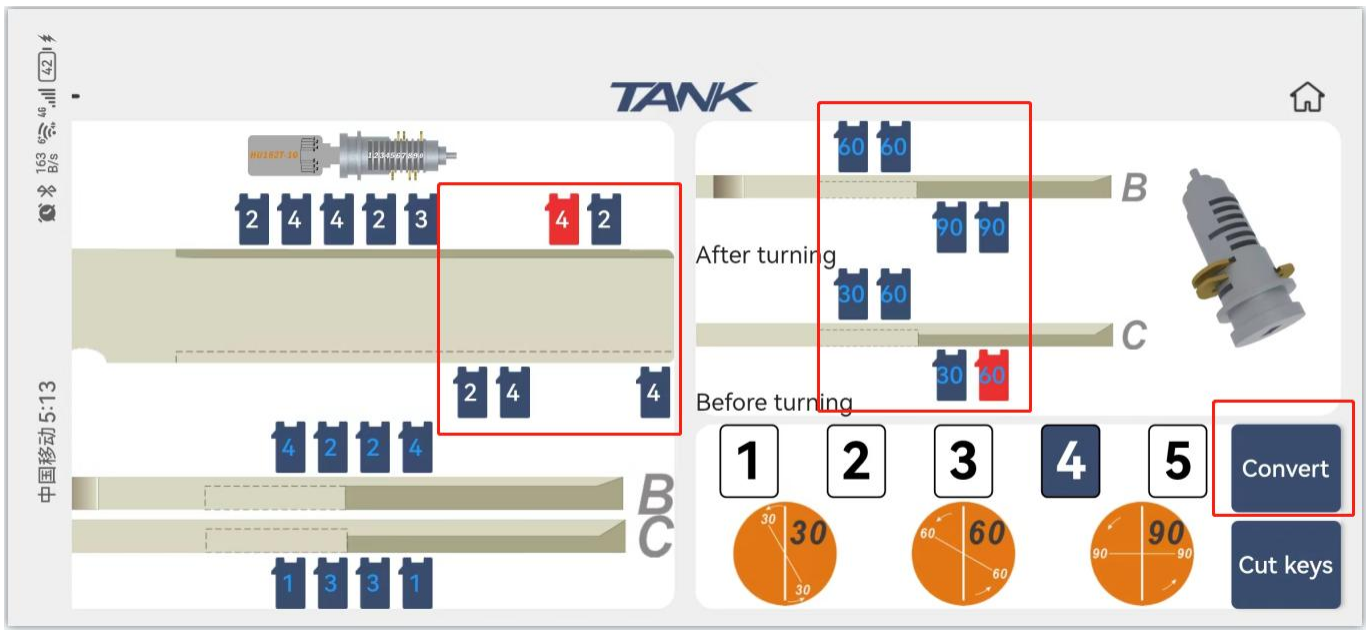




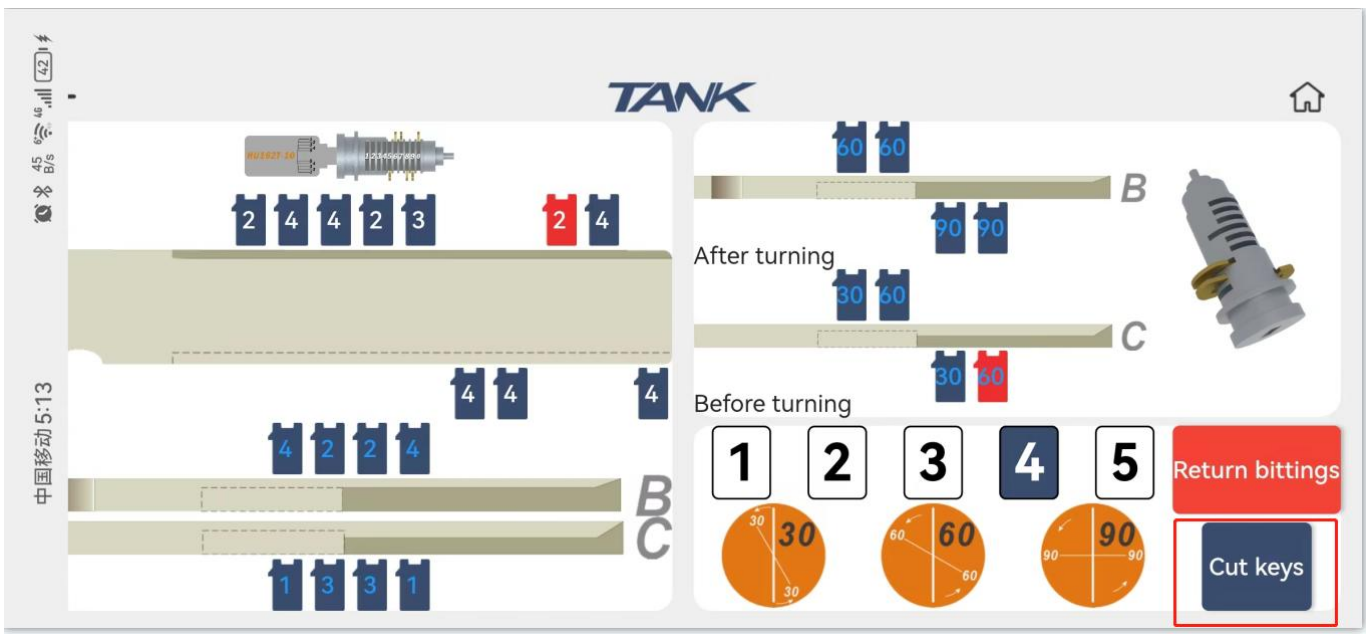
Click ‘2 in 1 decoder’ --- ‘HU162T-10 cuts’



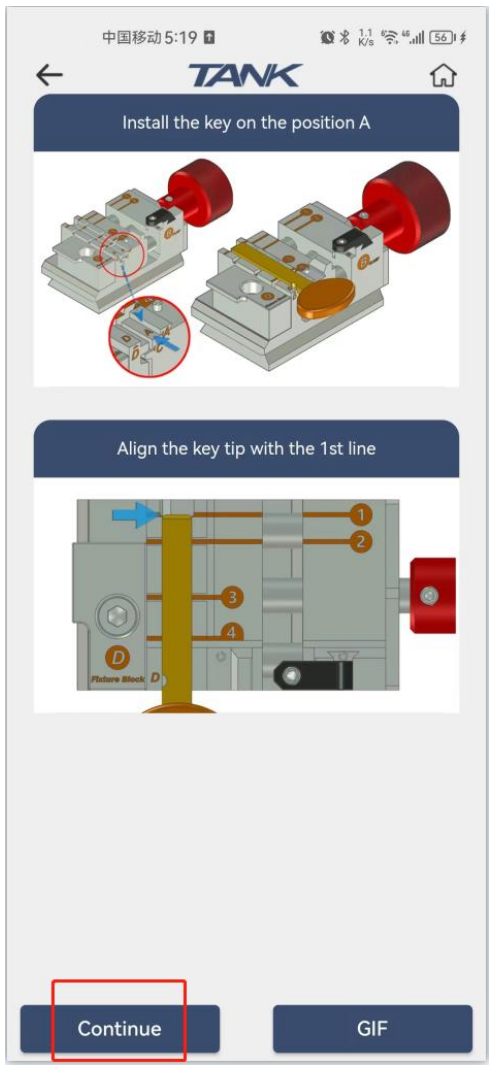
Input the key cuts that you decode via 2 in 1 decoder.



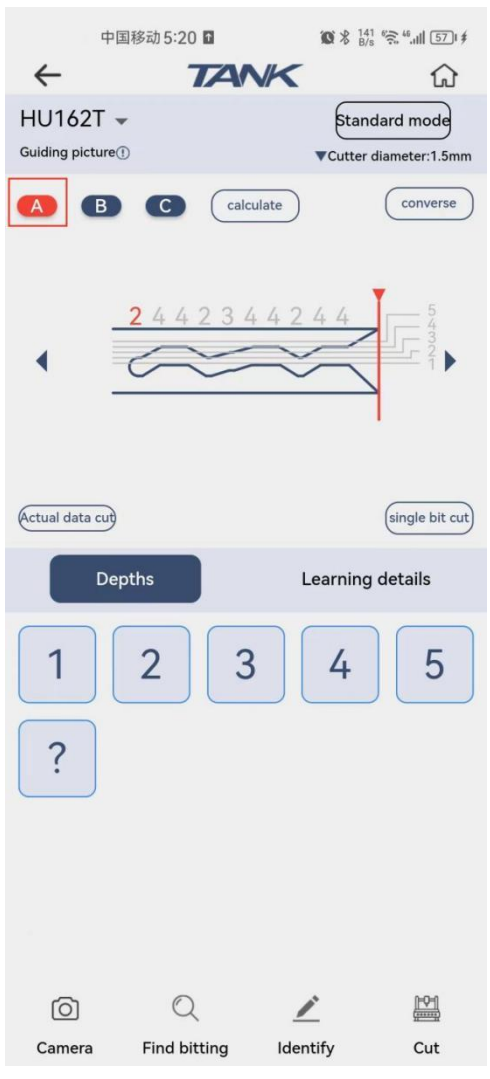
Click ‘convert’



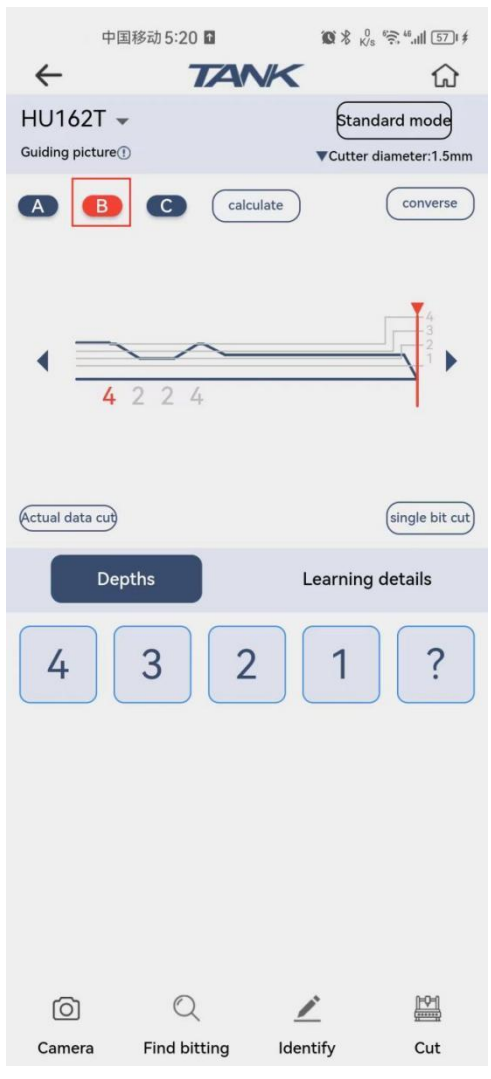
Click ‘ cut keys’



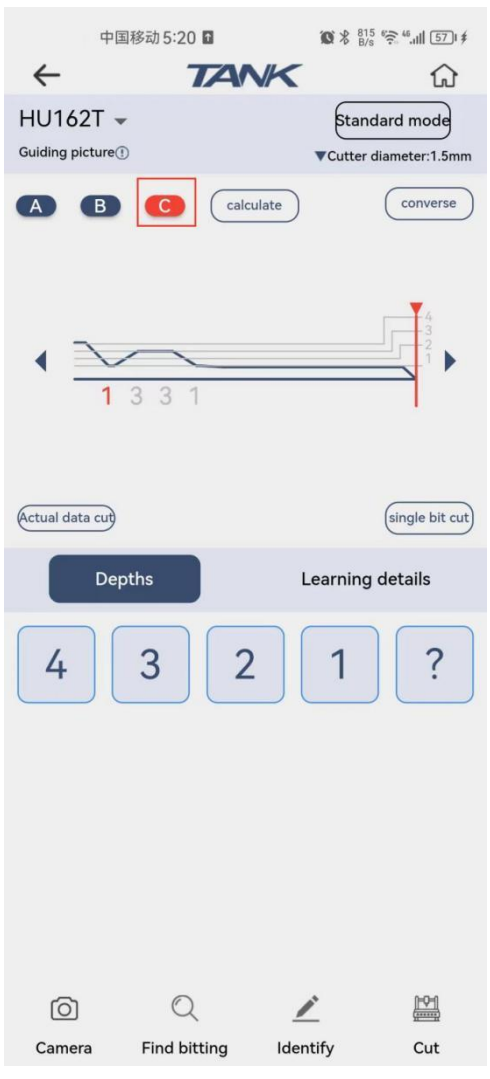
Click ‘ continue’



Click ’ A ’ --- ‘cut’

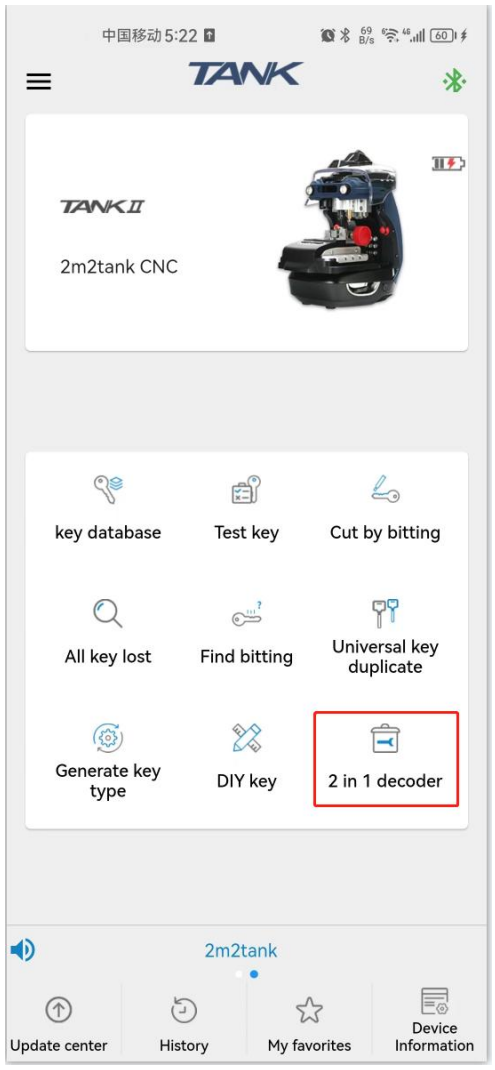


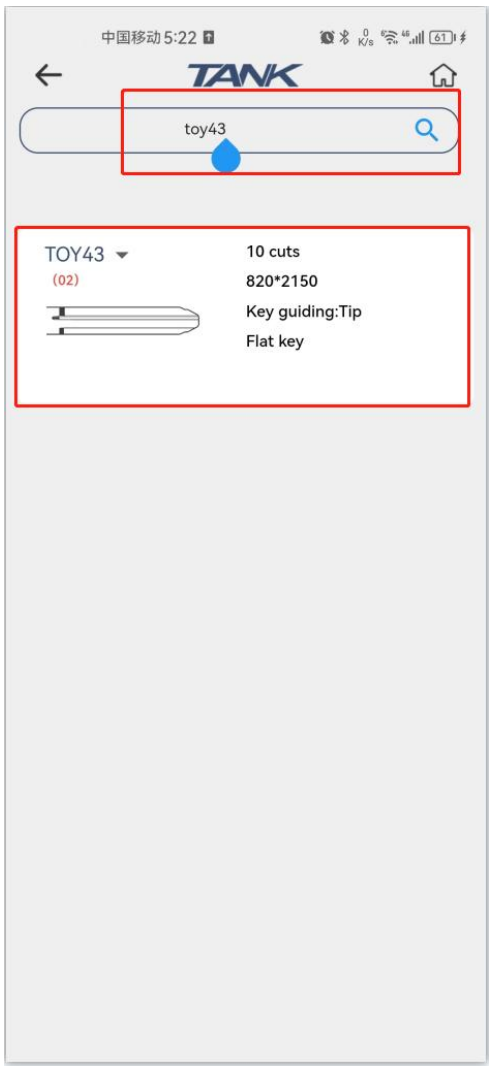
Click ’ B ’ --- ‘cut’



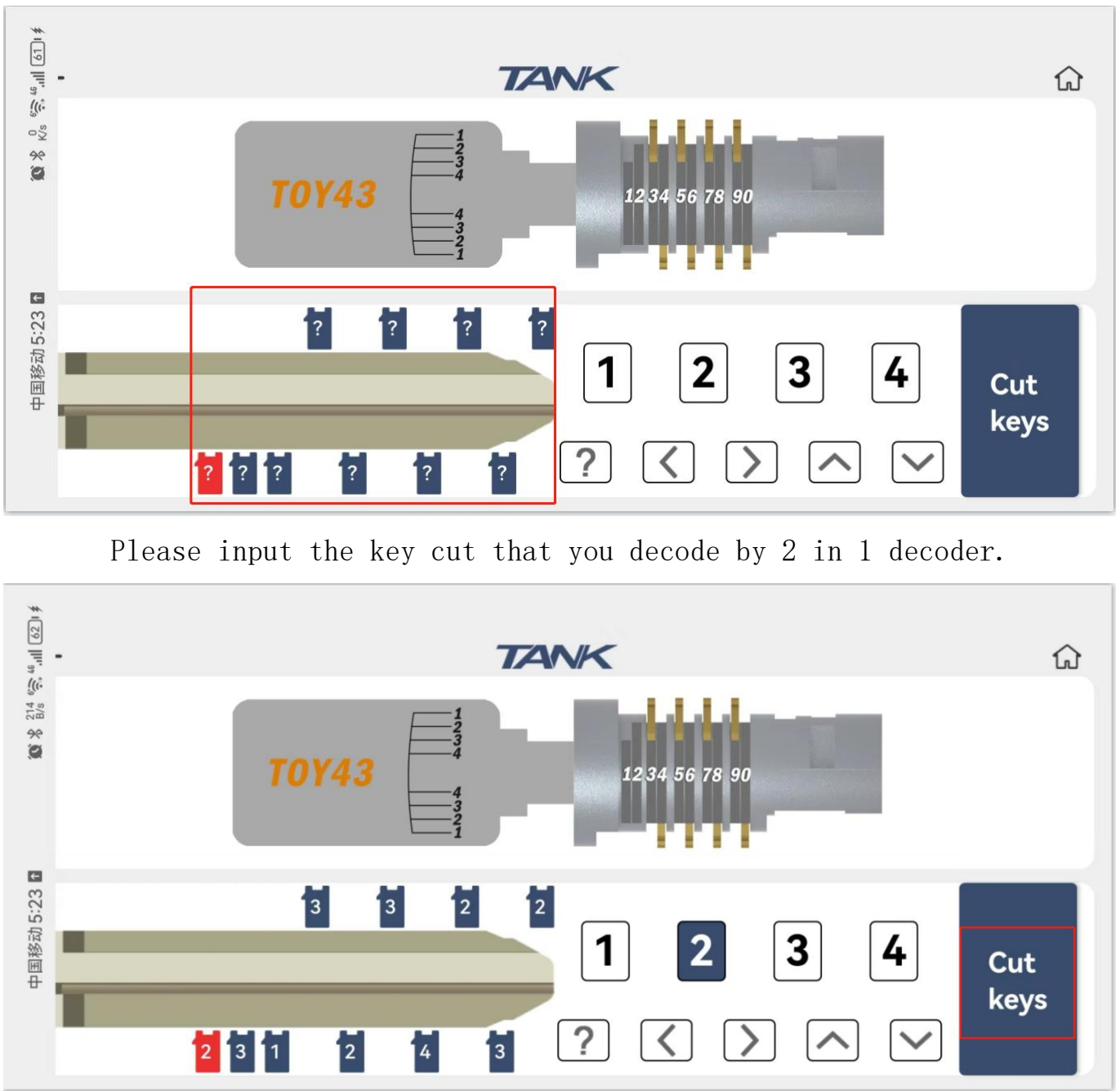
Click ’ C ’ --- ‘cut’

13-3 TOY43



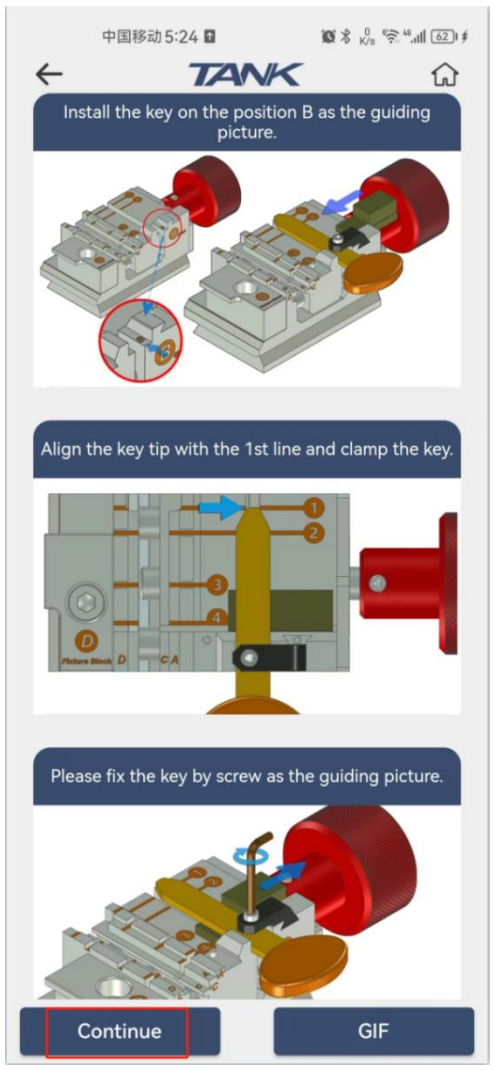


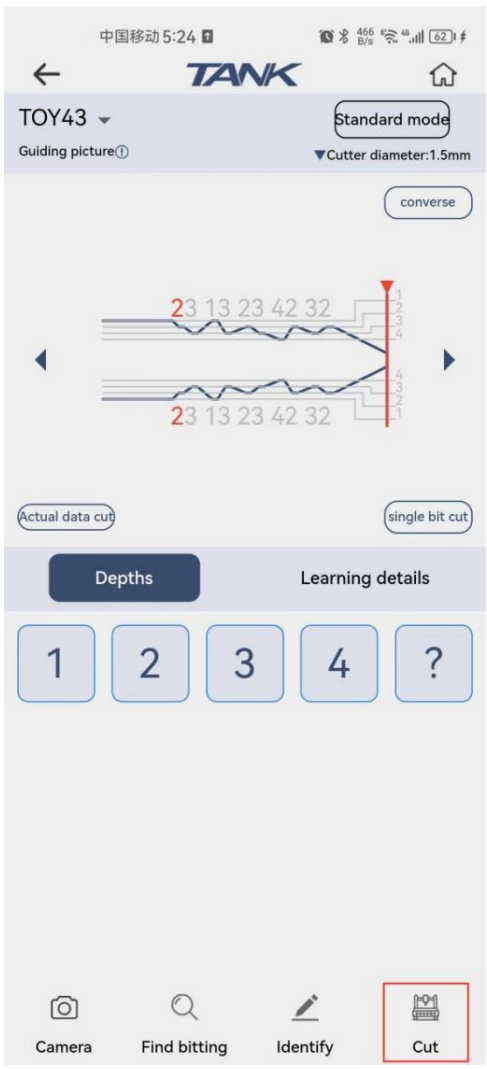
Click’ 2 in 1 decoder’ --- ‘TOY43’



Please input the key cut that you decode by 2 in 1 decoder.

Click ‘ cut keys’

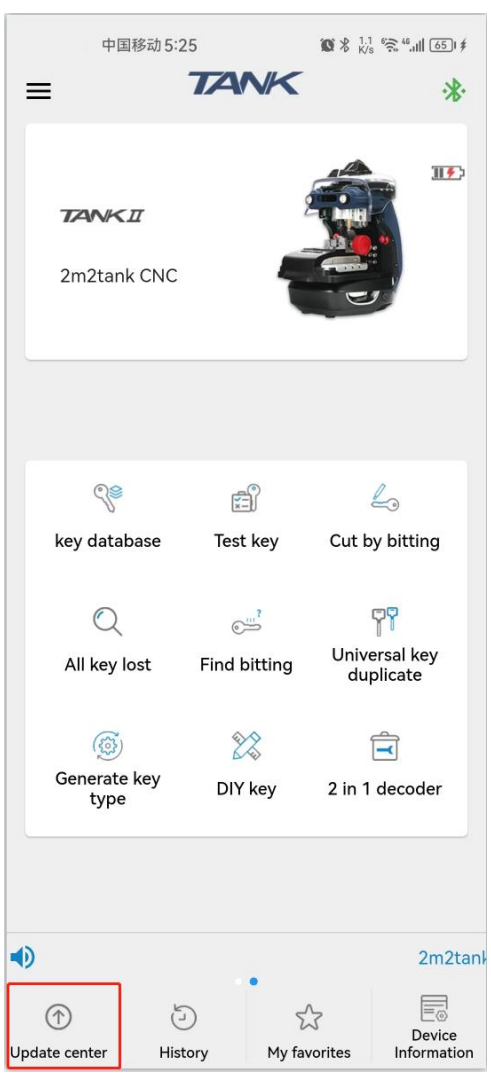


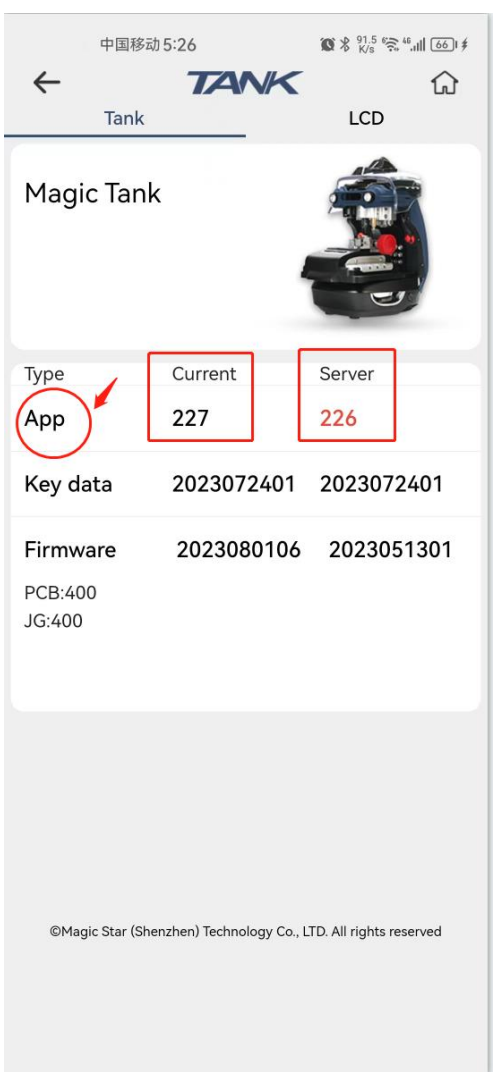


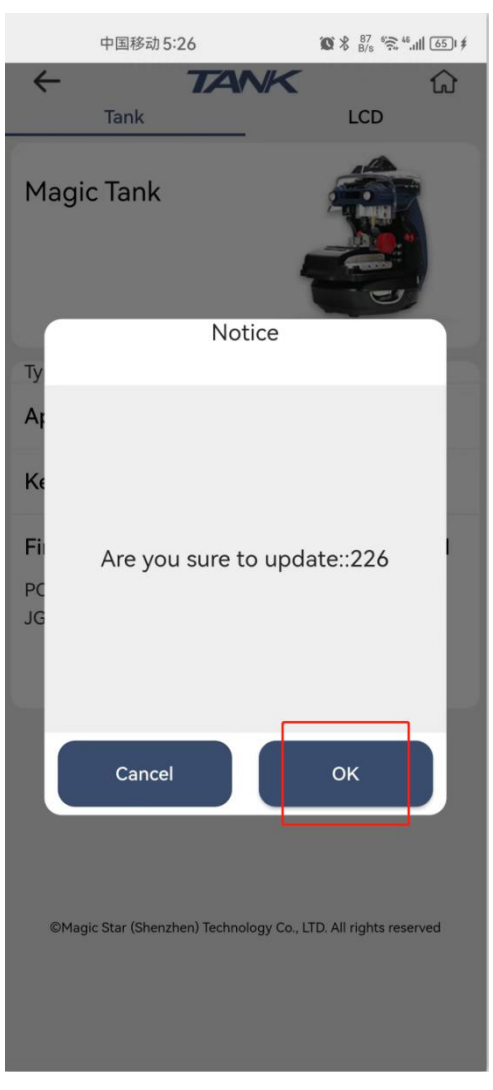
Click ‘ Continue’ --- ‘Cut’

14、Update

14-1 APP update

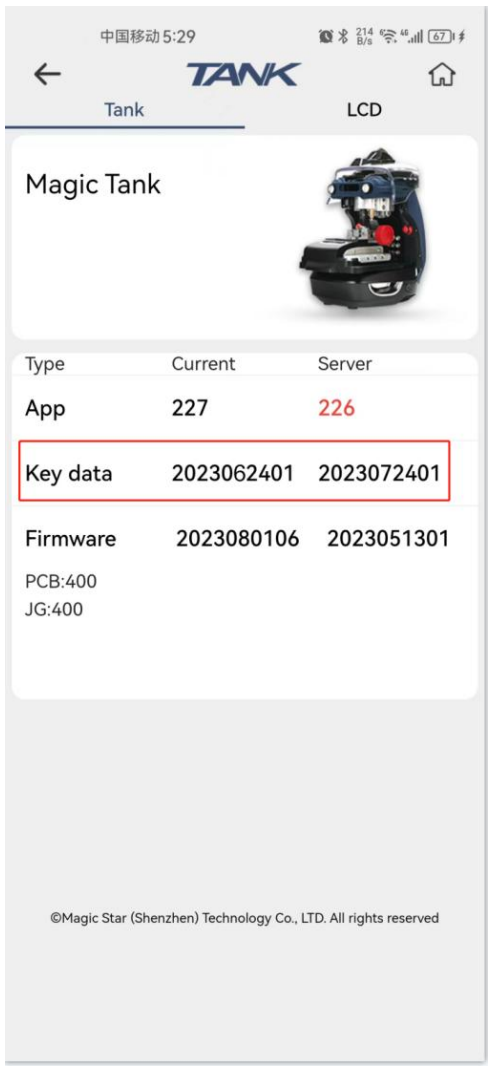


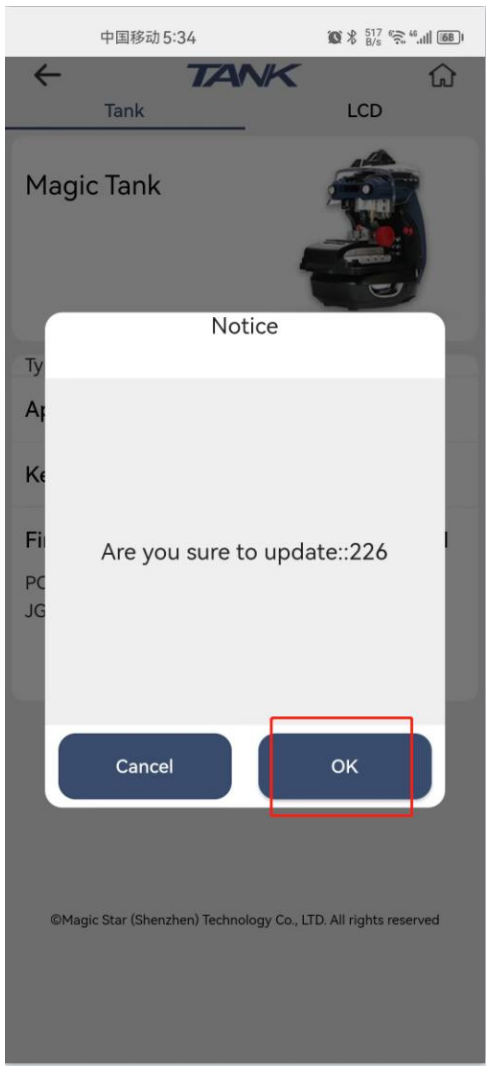


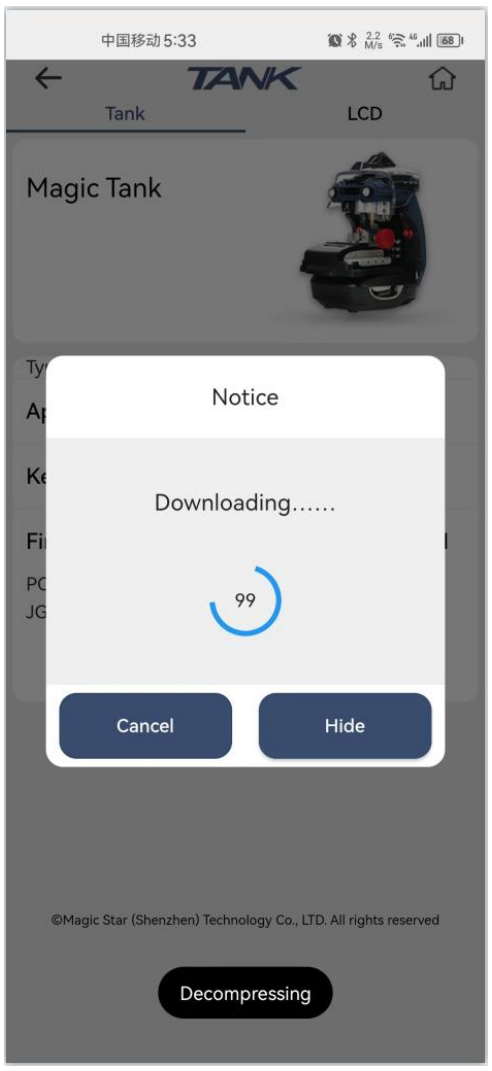


Click ‘update center’ --- Click version number that circled.--- Click’ ok’

14-2 Update key database

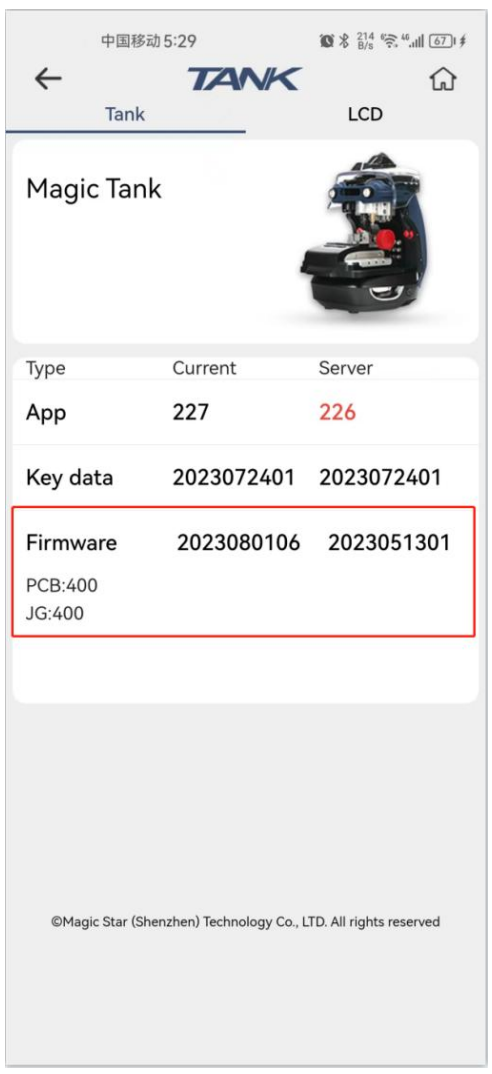


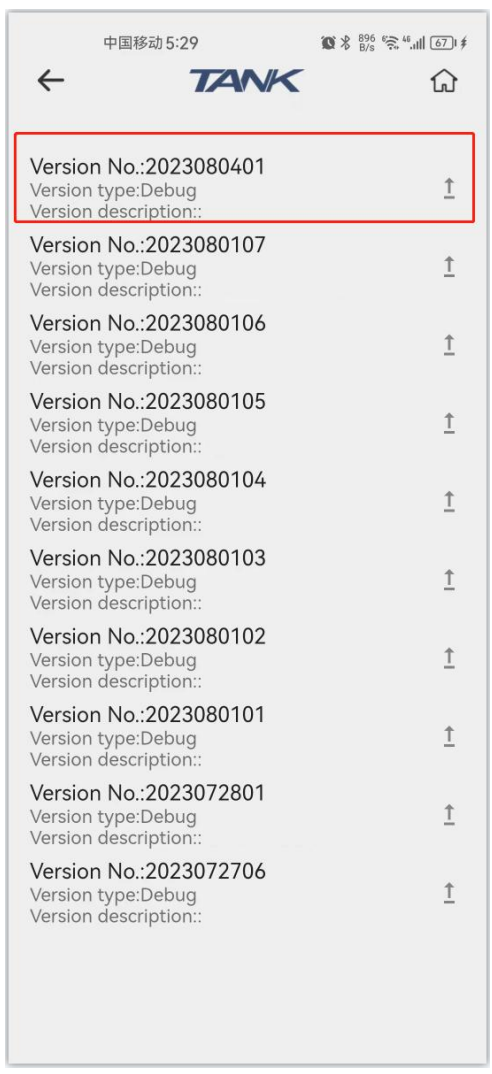


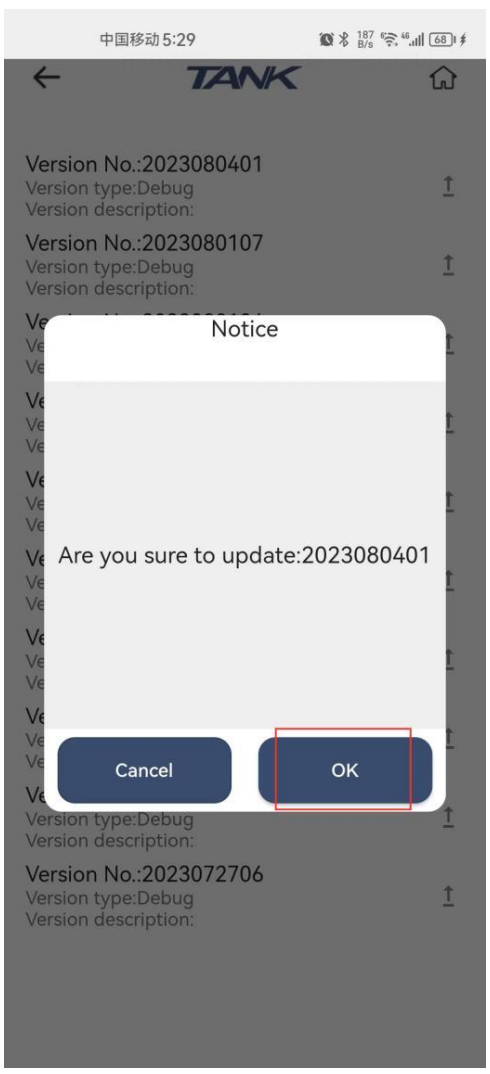


Click version number that circled and then click ’ ok ’ .

14-3 Firmware update







Click version number that circled and then click the first one for updating.

Click ‘update log’,and enter update information.

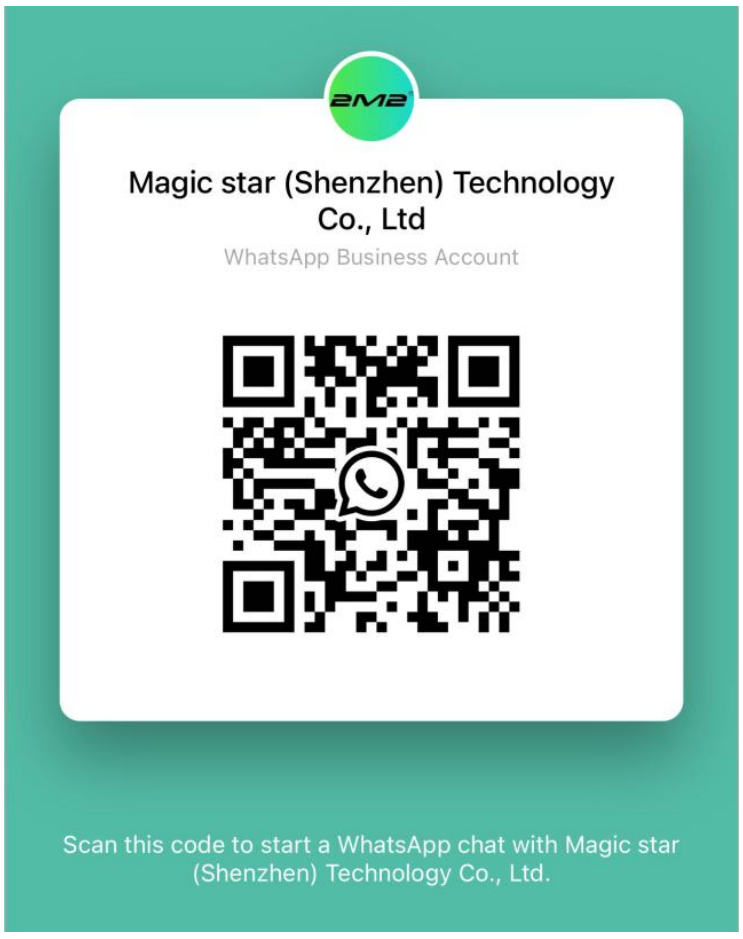
15、Maintenance

- Please clean the area around clamps with a brush before the machine starts to work.This is to assure cutting precision and avoid components damage by metal particles.
- To avoid damage or corrosion to the machine,please do not use detergent or other cleaning products to clean the machine.
- Please do not flush or wet the machine with water,in case rust and electrical current leakage.
- Under any circumstance,please do not try to clean the working area with air guns and drying machines,in case any metal carvings getting inside the machine.

16、Warranty

1. Warranty period from the activiting day;
   - 2 years warranty(machine structure,screw ball, Main board and others);
   - 1 year warranty contains battery(optional) and power adapter.

2.becomes dysfunctional due to the following reasons:
   - Operation without referring to or violating the user manual
   - Modifications or repairs to the machine by individuals
   - Falling,knocking or wrong voltage
   - Force damage
   - If the machine or clamp scratches on the surface, it doesn't cover warranty range.



If you want to add your own key data,please contact us by WhatsApp .

Thanks for your reading,welcome to use 2M2 tank automatic key cutting machine.

……END……