

BYD Anti-theft Manual

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1 Introduction of BYD anti-theft

Supported all keys lost, key adding, original vehicle key matching, key information reading, IK controller matching, steering shaft lock matching, ECM matching and ECM password clearing for vehicles with smart keys. (IK means intelligent key; ECM means engine controller for some vehicle models or means motor controller for some other vehicle models)

2 All keys lost

2.1 Covered vehicle models:

Vehicle series	Vehicle model	Model year	Key type	All keys lost
BYD	Qin		Smart key	Supported
BYD	Qin EV		Smart key	Supported
BYD	Qin PRO_DM		Smart key	Supported

BYD	Qin PRO_EV		Smart key	Supported
BYD	Qin PRO_Fuel		Smart key	Supported
BYD	Brand new Qin EV		Smart key	Supported
BYD	Don		Smart key	Supported
BYD	Don EV		Smart key	Supported
BYD	Brand new first generation Don DM		Smart key	Supported
BYD	Brand new first generation Don EV		Smart key	Supported
BYD	Brand new first generation Don fuel		Smart key	Supported
BYD	Song		Smart key	Supported
BYD	Song EV		Smart key	Supported
BYD	Song EV-4WD		Smart key	Supported
BYD	Song MAX_DM		Smart key	Supported
BYD	Song MAX_Fuel		Smart key	Supported
BYD	Song PRO_EV		Smart key	Supported
BYD	Song PRO_DM		Smart key	Supported
BYD	Song PRO_Fuel		Smart key	Supported
BYD	Yuan		Smart key	Supported
BYD	Yuan EA		Smart key	Supported
BYD	Yuan EB		Smart key	Supported
BYD	Yuan EV		Smart key	Supported
BYD	Brand new Yuan EV		Smart key	Supported
BYD	Sirui		Smart key	Supported
BYD	Surui		Smart key	Supported
BYD	e1		Smart key	Supported
BYD	e2/e3		Smart key	Supported
BYD	e5		Smart key	Supported
BYD	e5 travel edition		Smart key	Supported
BYD	e6		Smart key	Supported
BYD	F0		Smart key	Supported
BYD	F3	2013-	Smart key	Supported
BYD	F3 (new)		Smart key	Supported
BYD	F3CK		Smart key	Supported
BYD	F3CR		Smart key	Supported
BYD	F3DM		Smart key	Supported
BYD	F6		Smart key	Supported

BYD	G3		Smart key	Supported
BYD	G3R		Smart key	Supported
BYD	G5		Smart key	Supported
BYD	G6		Smart key	Supported
BYD	L3		Smart key	Supported
BYD	M3 EV		Smart key	Supported
BYD	M6		Smart key	Supported
BYD	S6		Smart key	Supported
BYD	S7		Smart key	Supported
BYD	S8		Smart key	Supported
BYD	T3		Smart key	Supported
BYD	VA		Smart key	Supported

2.2 Conditions and requirements:

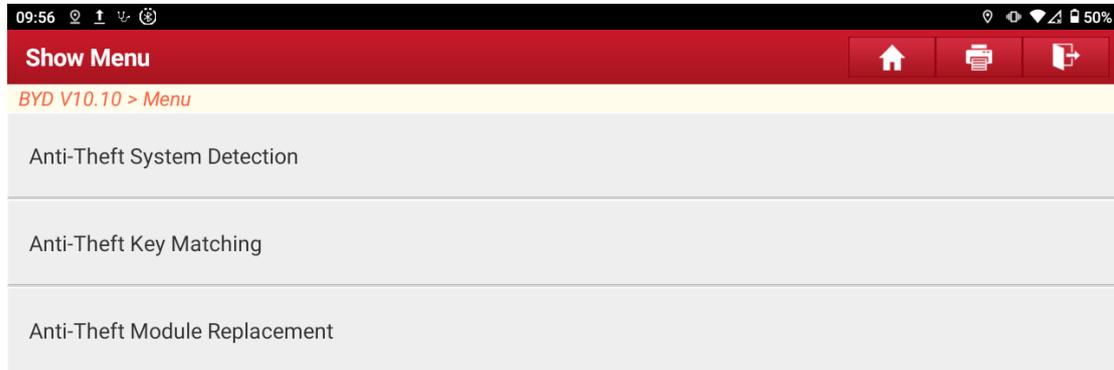
Plan 1: Launch PAD series comprehensive diagnostic device +X-431 GIII anti-theft programmer (analog key is needed when all keys are lost)

Plan 2: Launch X-431 PRO anti-theft matching instrument(professional version) + X-431 GIII anti-theft programmer(analog key is needed when all keys are lost)

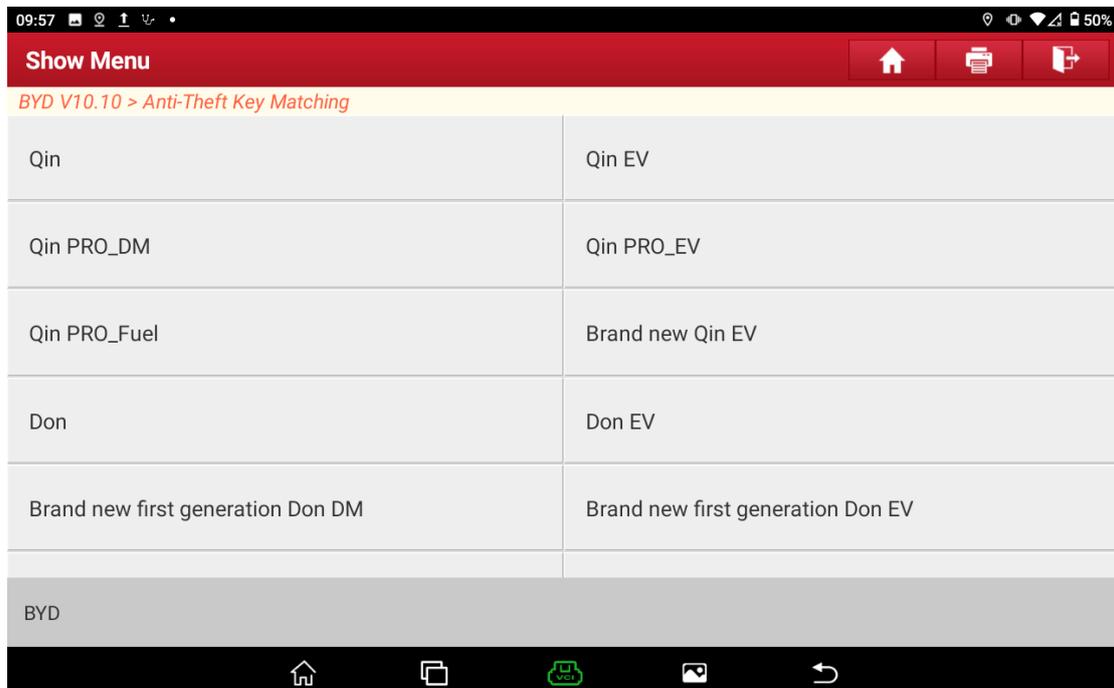
2.3 Operation procedure :

The following is all keys lost of Qin

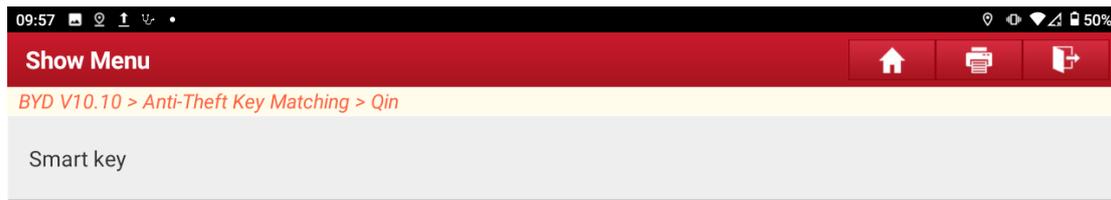
1. Click BYD vehicle series and select the corresponding function menu, here we select [Anti-Theft Key Matching] (shown in the following picture)



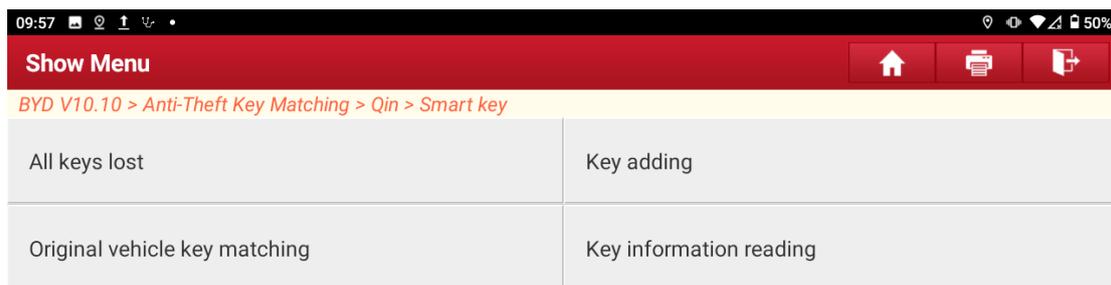
2. Select the corresponding vehicle model, here we select [Qin] (shown in the following picture)



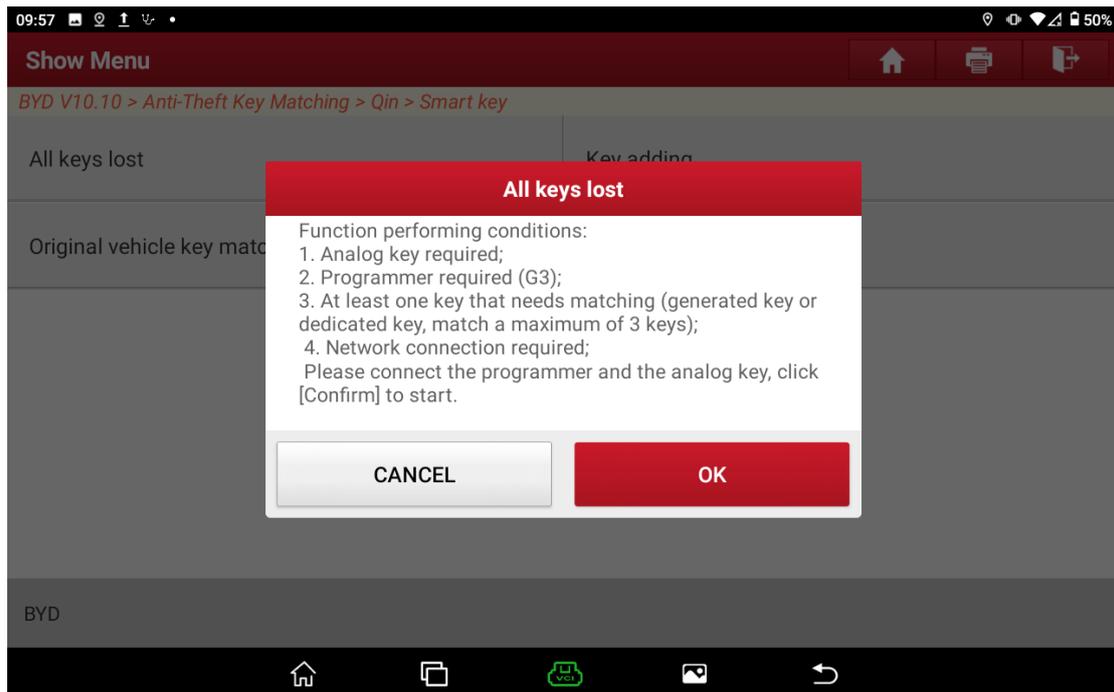
3. The vehicle model will be distinguished by model year/key type, here we select [Smart key] (shown in the following picture)



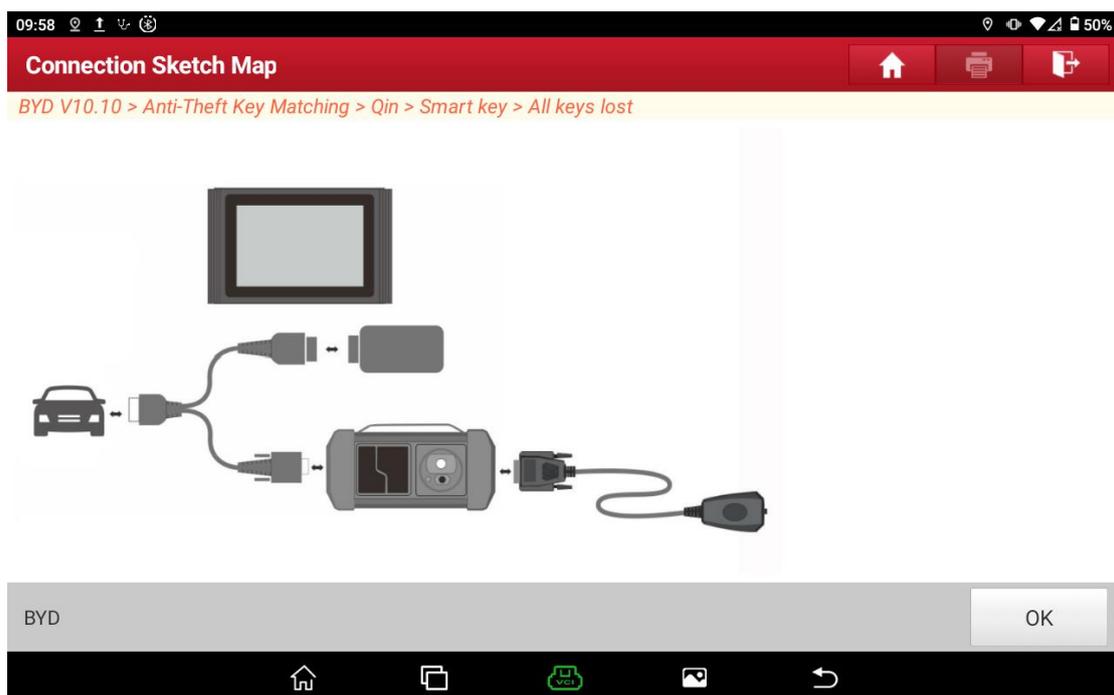
4. There are multiple functions under anti-theft key matching, here we select [All keys lost] (shown in the following picture)



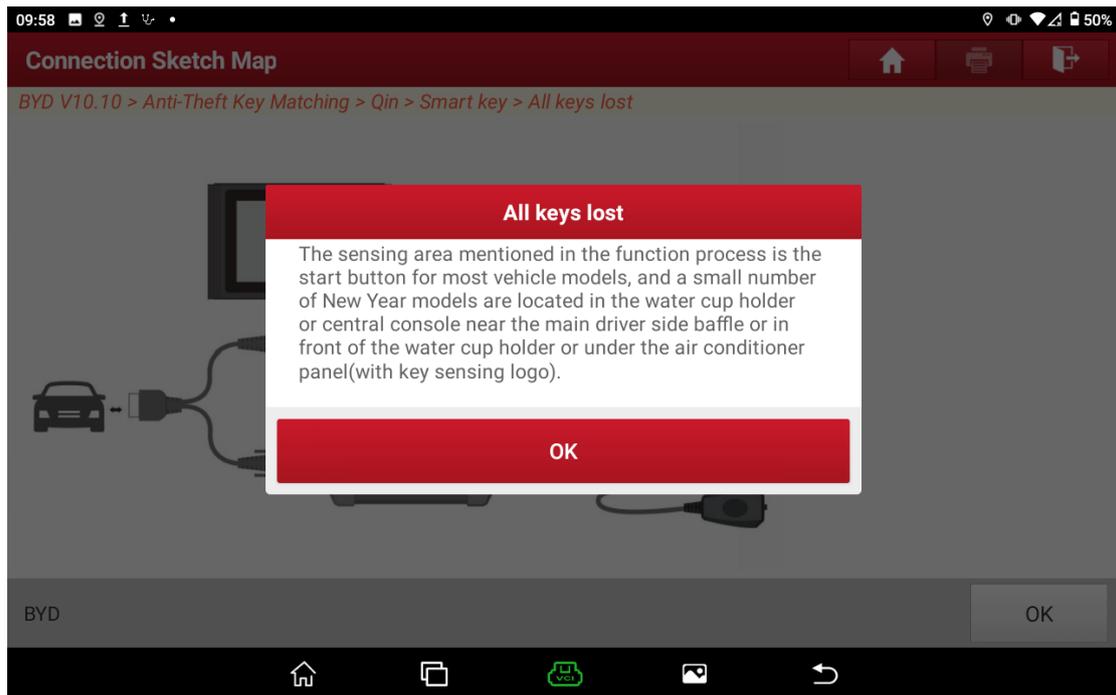
5. Prepare for the relevant conditions according to the prompt, and then click [OK] (shown in the following picture)



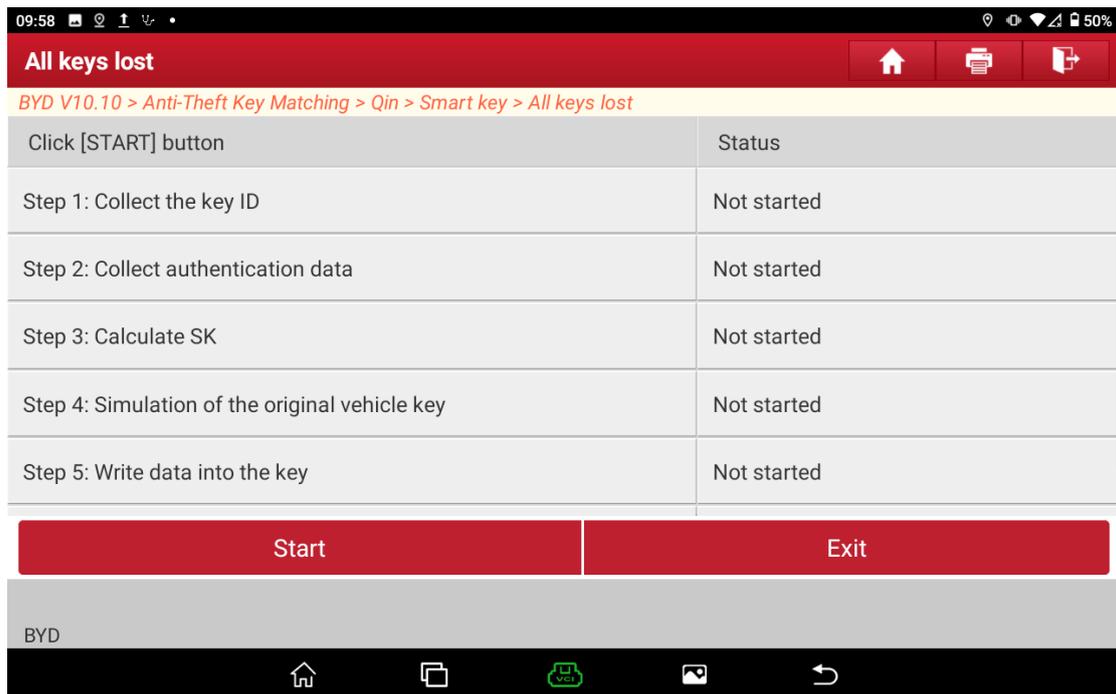
6. Connect the relevant devices and vehicle according to the connection sketch map, and then click [OK] (shown in the following picture)



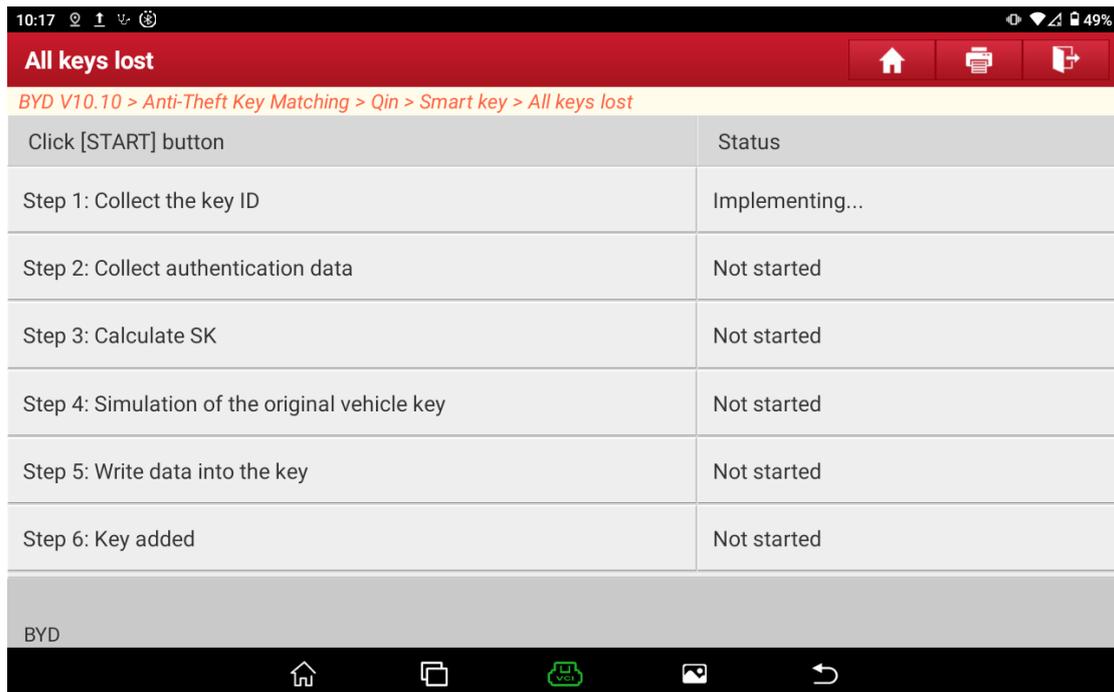
7. Conform the key sensing area according to the prompt, and then click [OK] (shown in the following picture)



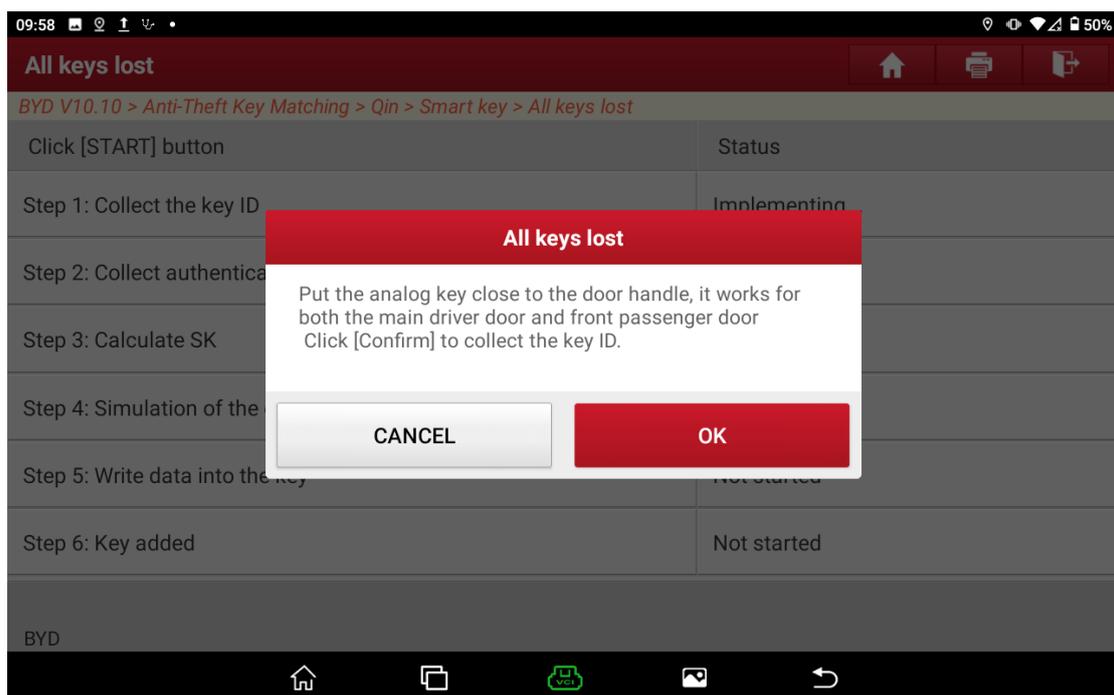
8. There are totally 6 steps in all keys lost, only by clicking [Start] button can you implement them, and you will start from step 1 (shown in the following picture)



9. Step 1 implementing started (shown in the following picture)

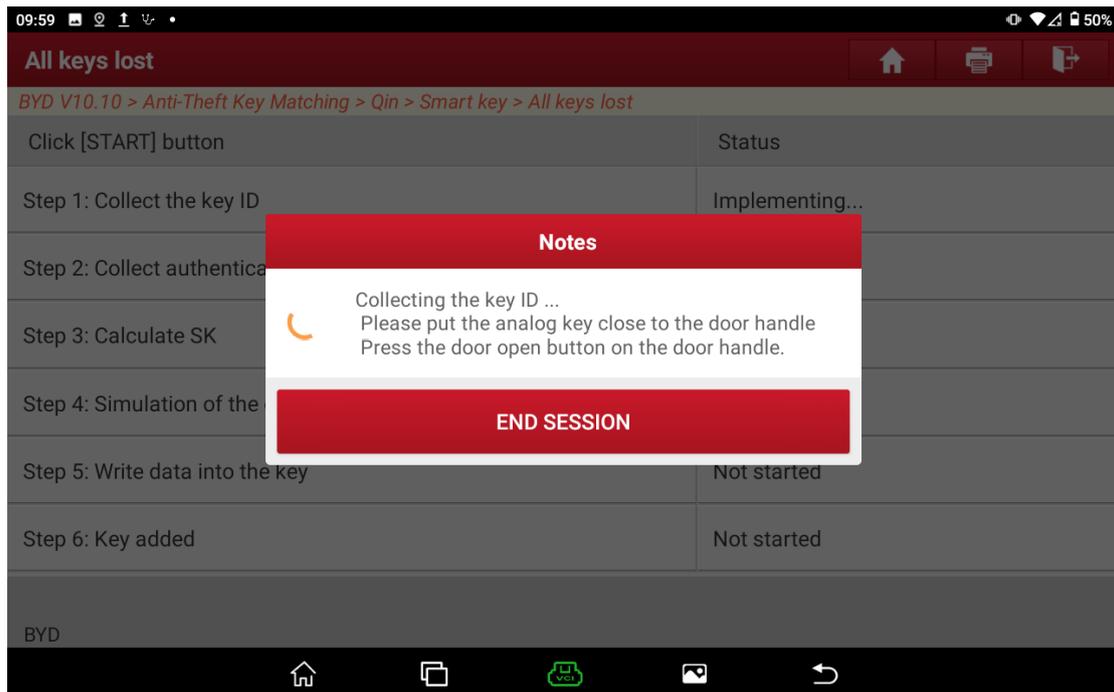


10. Operate according to the prompt, and then click [OK] (shown in the following picture)

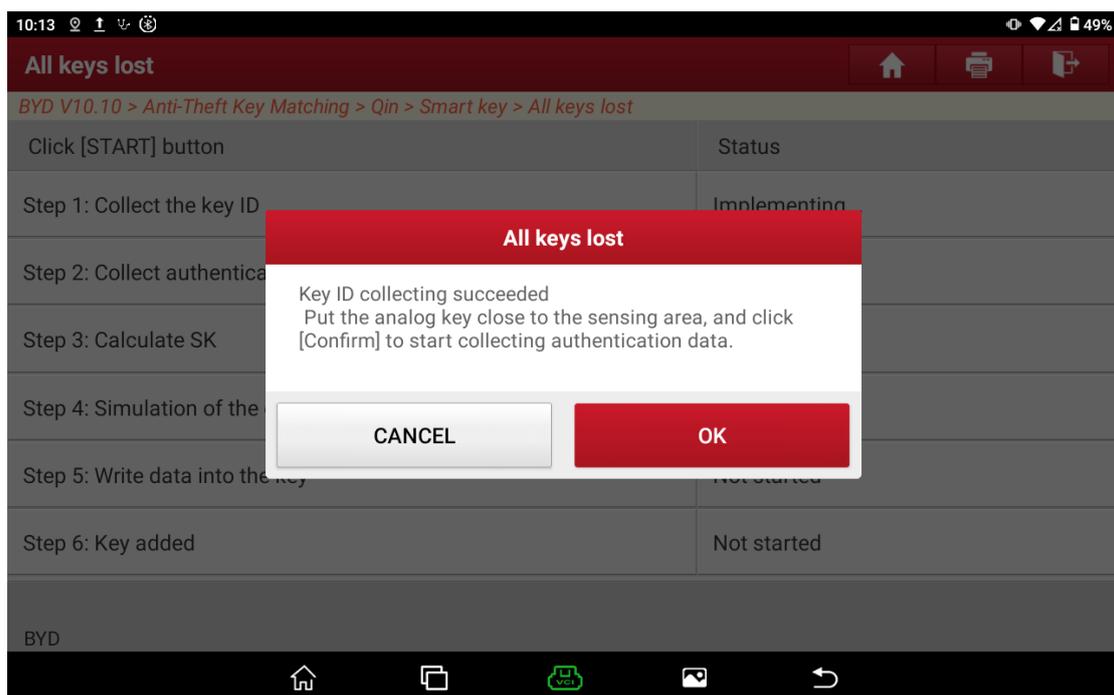


11. Operate according to the prompt, collecting the key ID (shown in the following picture)

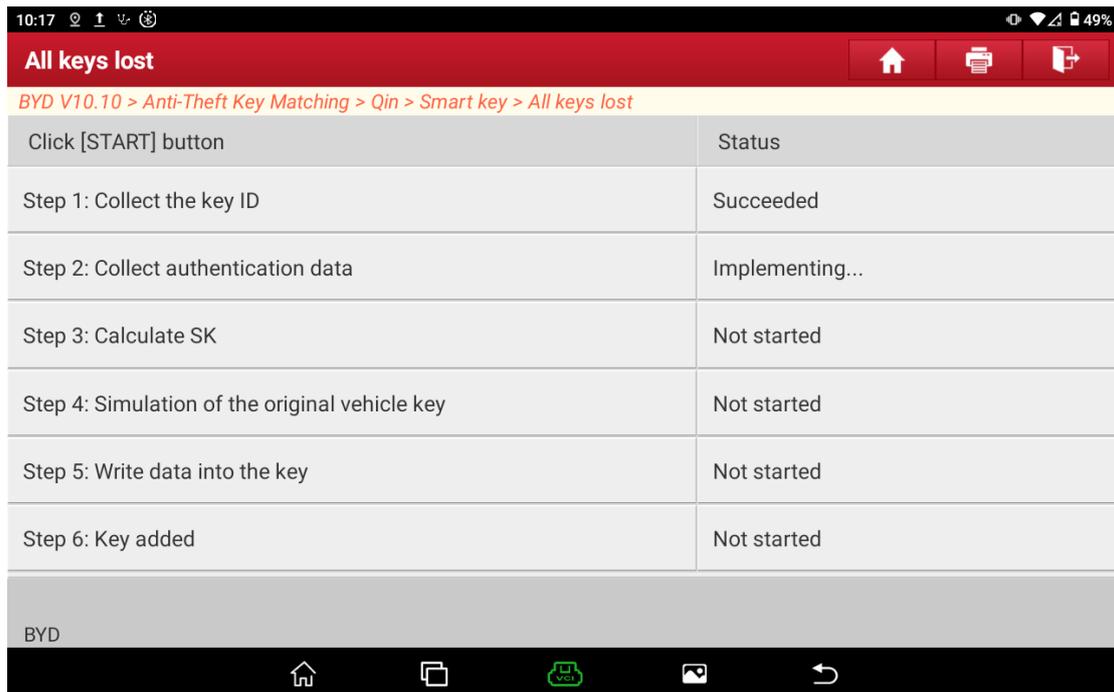
Notes: put the analog key close to the door handle and press the door open button on the door handle every 1 second. During the process, you can adjust the approaching position of analog key appropriately or the way that analog key is approaching, such as: vertical approaching, approaching of the other side, horizontal approaching etc.



12. After the collecting succeeded, operate according to the prompt, and then click [OK] (shown in the following picture)



13. Step 1 ended(succeeded), step 2 will be implemented automatically(shown in the following picture)

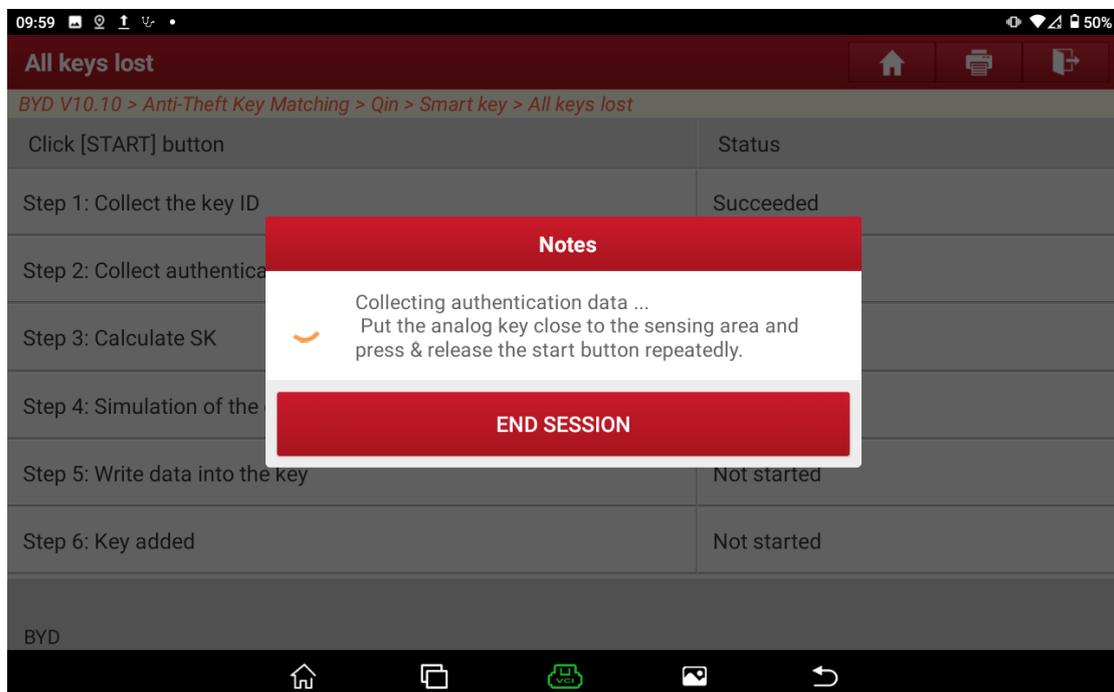


Click [START] button	Status
Step 1: Collect the key ID	Succeeded
Step 2: Collect authentication data	Implementing...
Step 3: Calculate SK	Not started
Step 4: Simulation of the original vehicle key	Not started
Step 5: Write data into the key	Not started
Step 6: Key added	Not started

BYD

14. Operate according to the prompt, collecting authentication data (shown in the following picture)

Notes: put the analog key close to sensing area and press (then release) the start button every 2 seconds. During the process, you can adjust the approaching position of analog key appropriately or the way that analog key is approaching, such as: vertical approaching, approaching of the other side, horizontal approaching etc.



Click [START] button	Status
Step 1: Collect the key ID	Succeeded
Step 2: Collect authentication data	Implementing...
Step 3: Calculate SK	Not started
Step 4: Simulation of the original vehicle key	Not started
Step 5: Write data into the key	Not started
Step 6: Key added	Not started

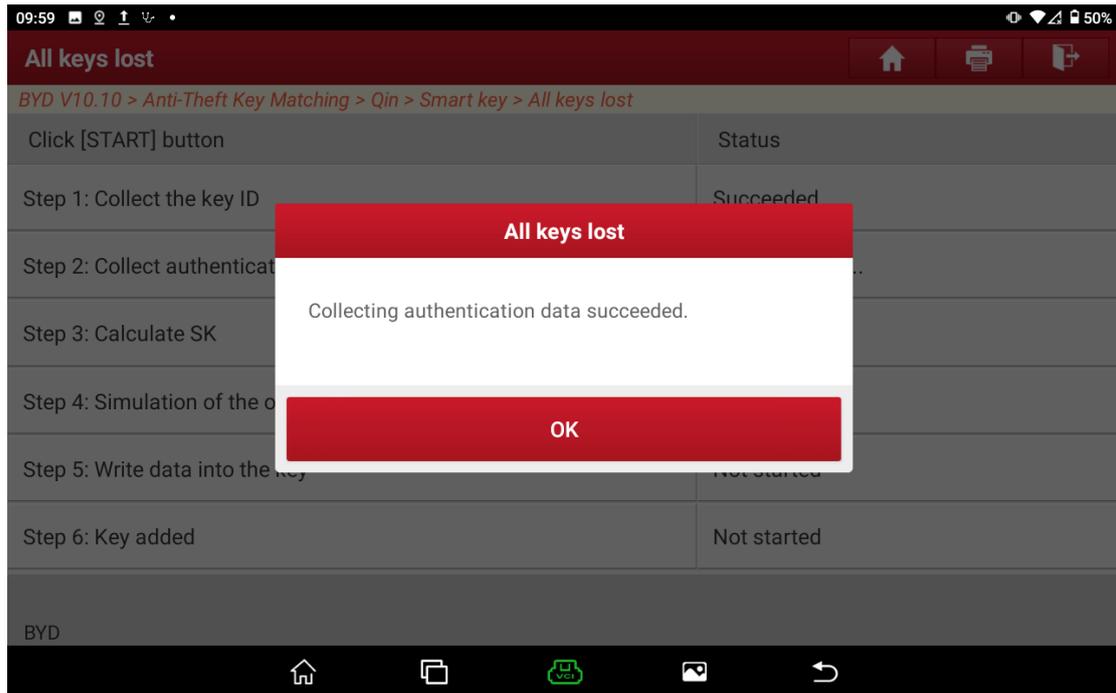
BYD

Notes

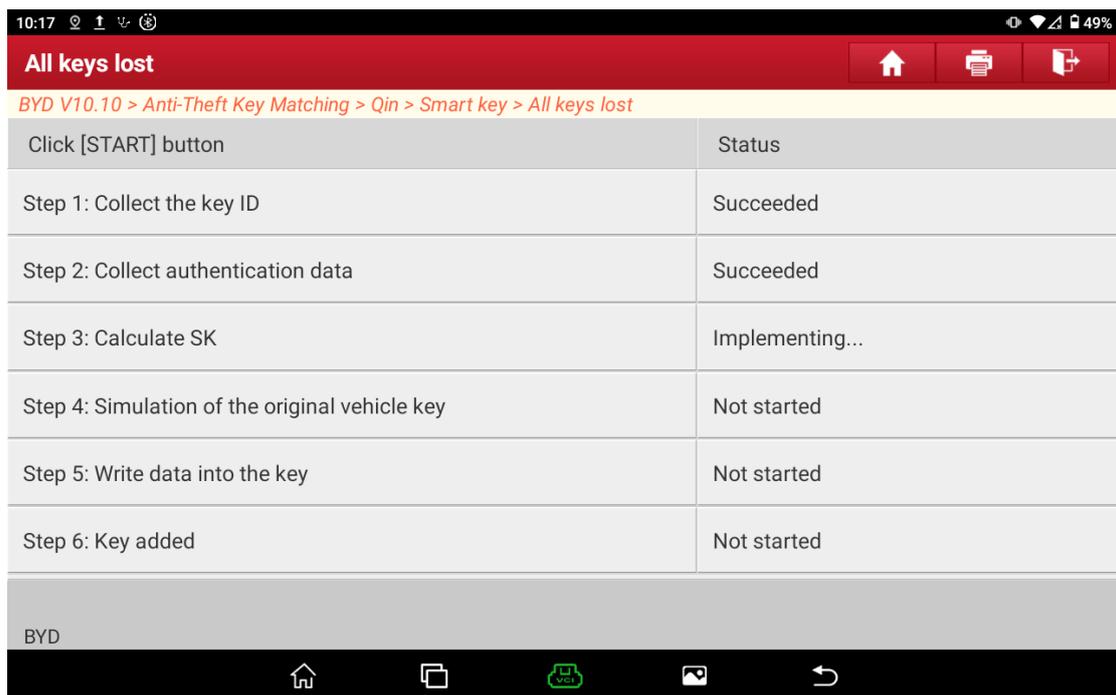
Collecting authentication data ...
Put the analog key close to the sensing area and press & release the start button repeatedly.

END SESSION

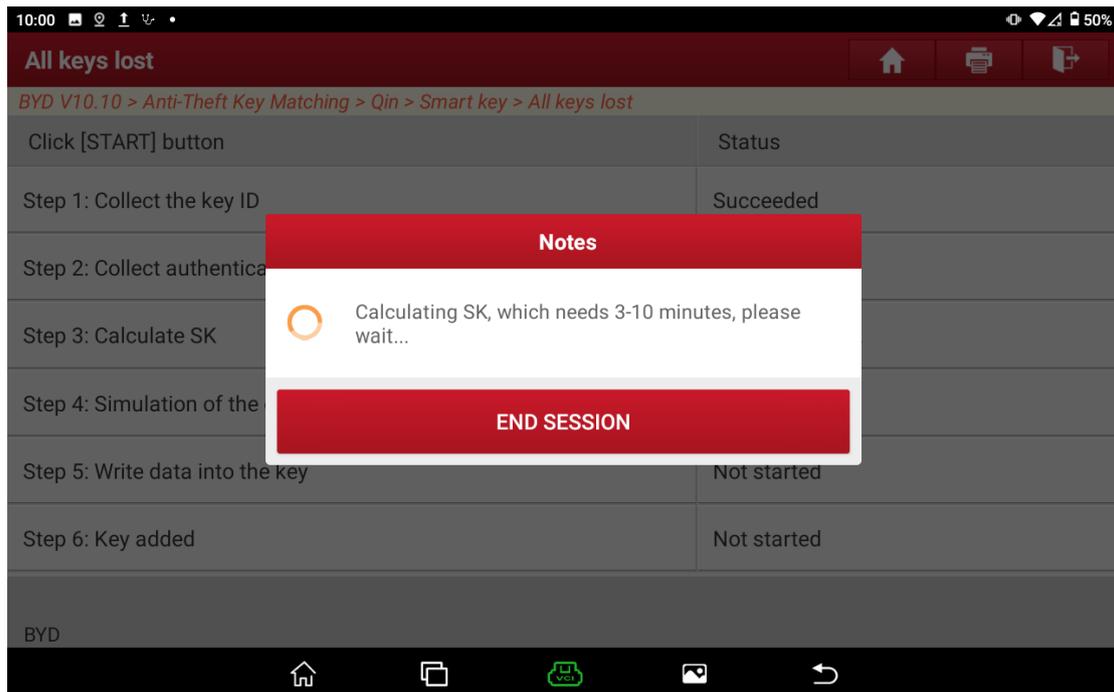
15. After the collecting succeeded, click [OK] (shown in the following picture)



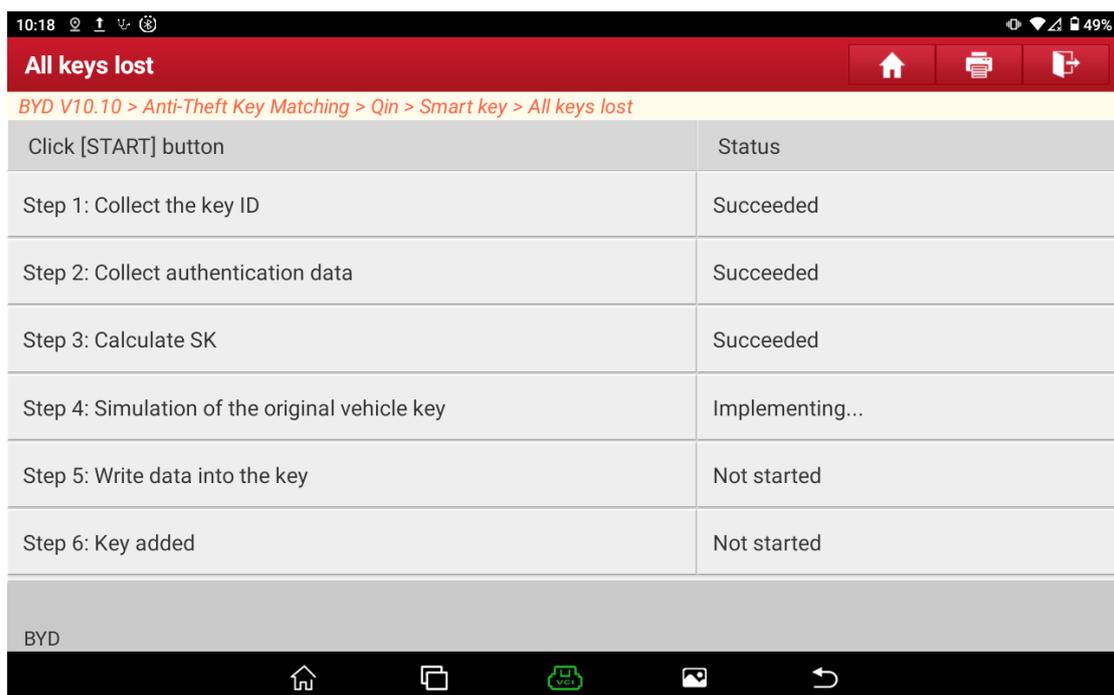
16. Step 2 ended (succeeded), step 3 will be implemented automatically (shown in the following picture)



17. Calculating SK, please wait for a little while (shown in the following picture)

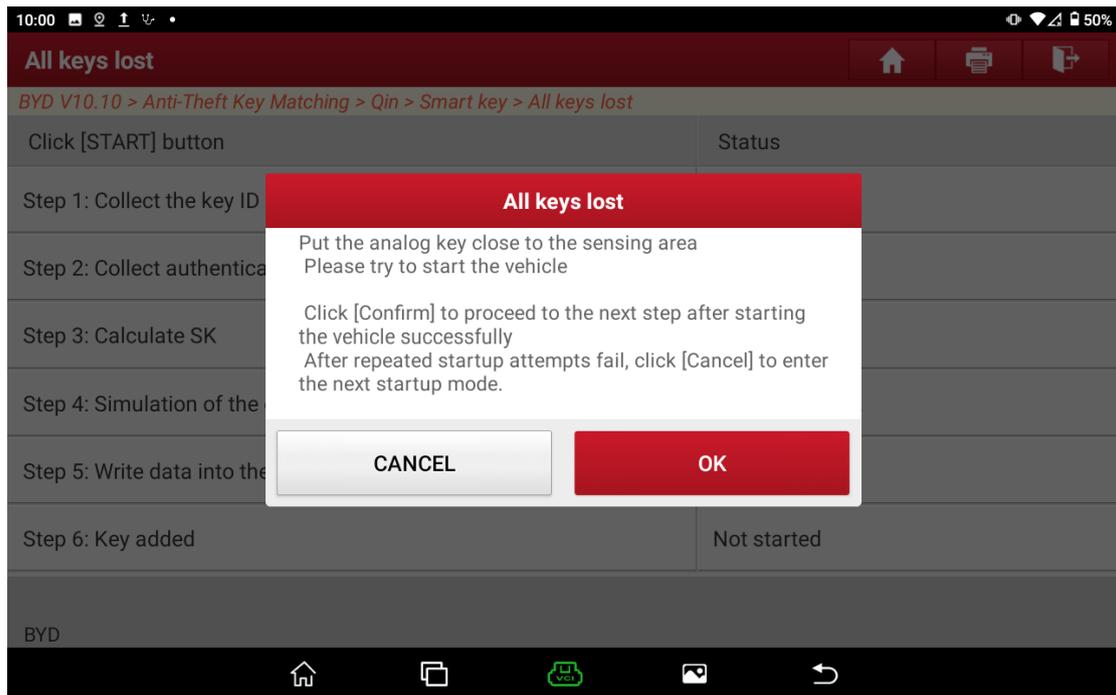


18. Step 3 ended (succeeded), step 4 will be implemented automatically (shown in the following picture)

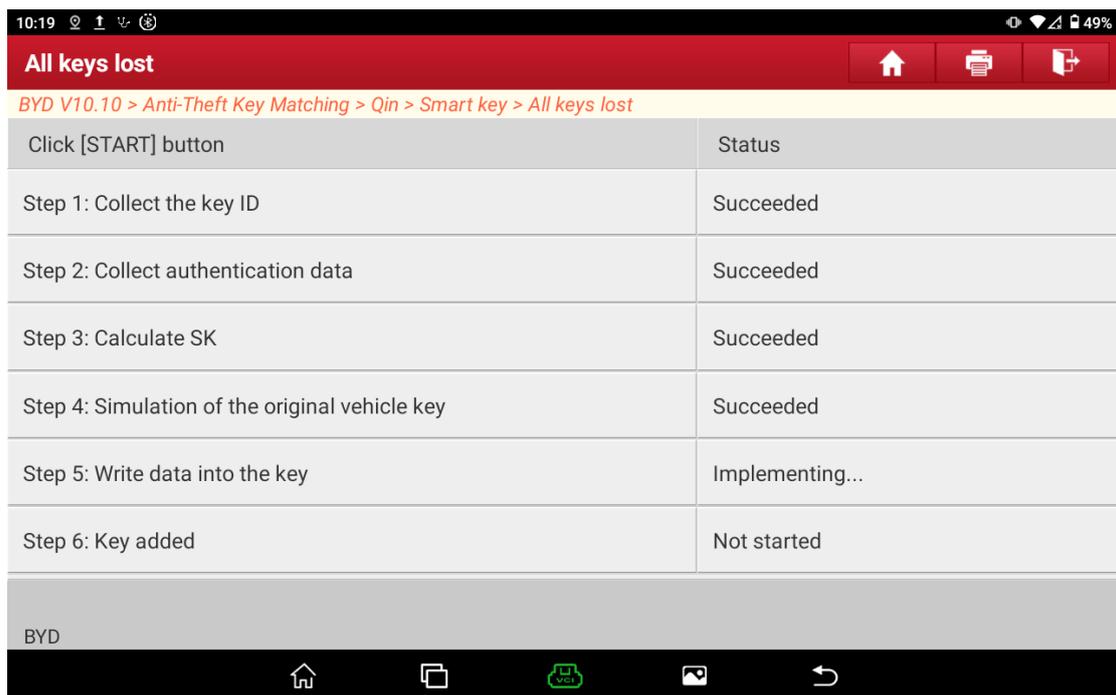


19. At this time, strictly follow the prompt and click the corresponding button (click [Cancel], it is still the current step, but it will enter the new startup mode (shown in the following picture))

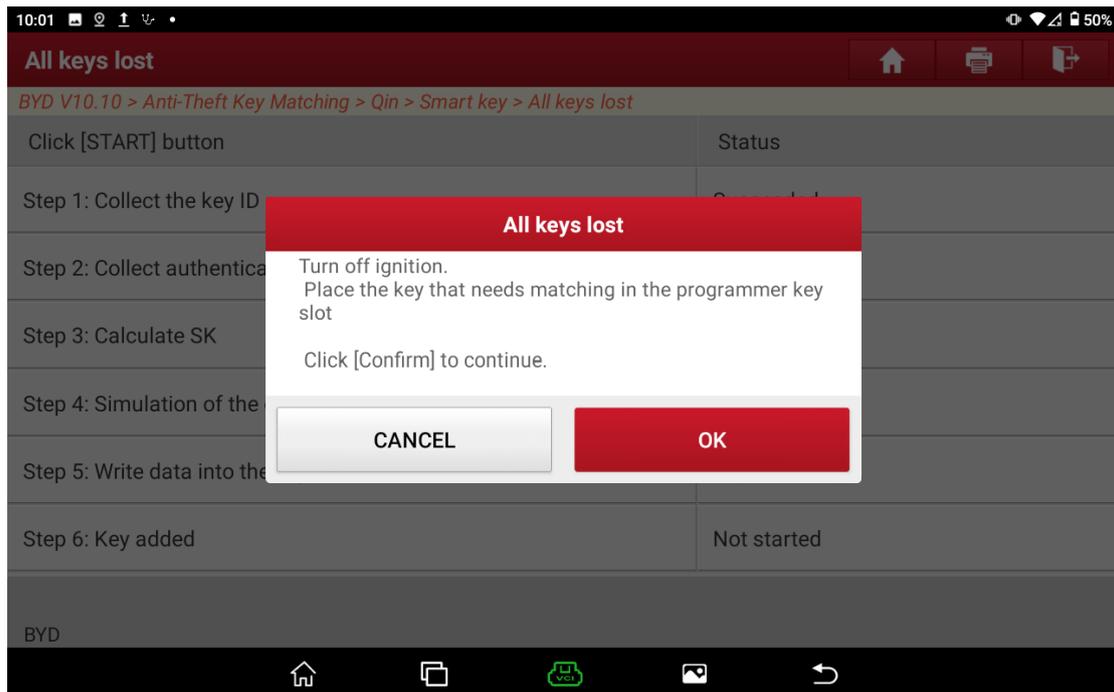
Notes: put the analog key close to the sensing area, the method is similar to the previous step of collecting authentication data; try to start the vehicle, under every startup mode, you can try multiple times (at least 3~5 times based on vehicle conditions), there can be an interval of 1~2 seconds between two attempts (1~2 seconds between the two successive pressings of the start button)



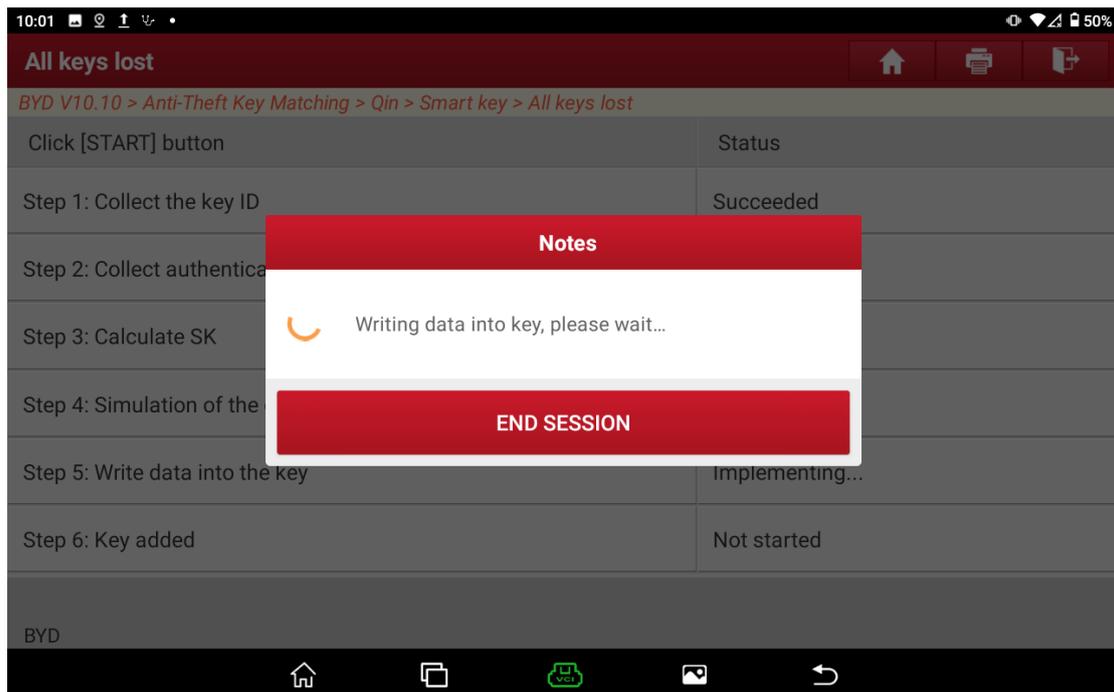
20. Step 4 ended (succeeded), step 5 will be implemented automatically (shown in the following picture)



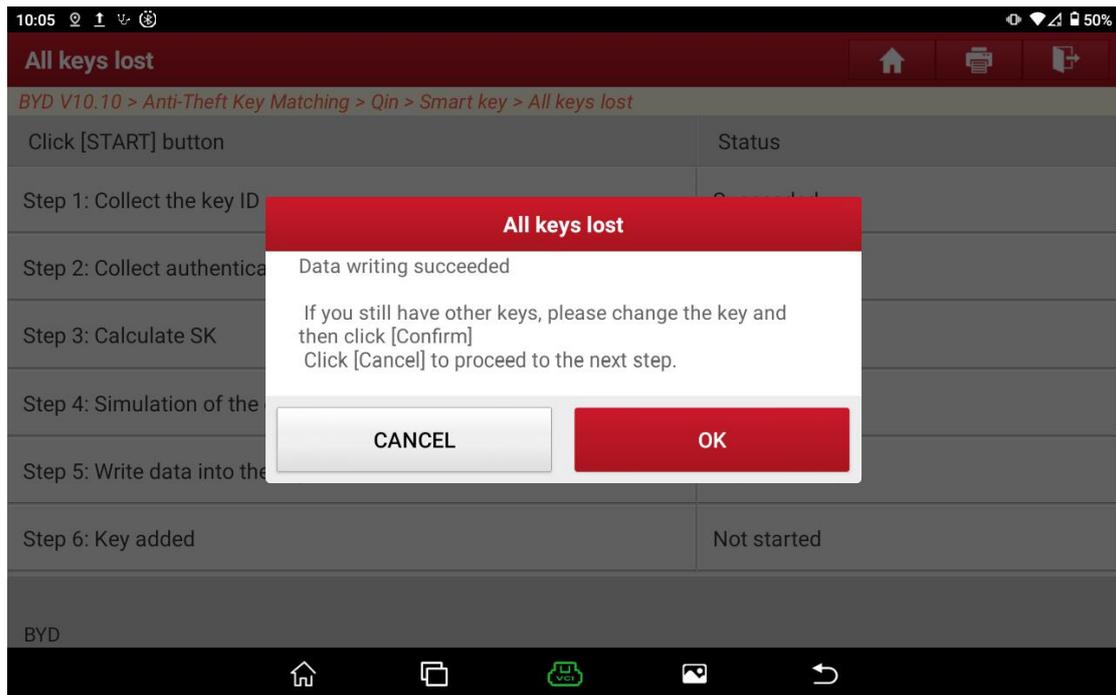
21. Operate according to the prompt, and then click [OK] (shown in the following picture)



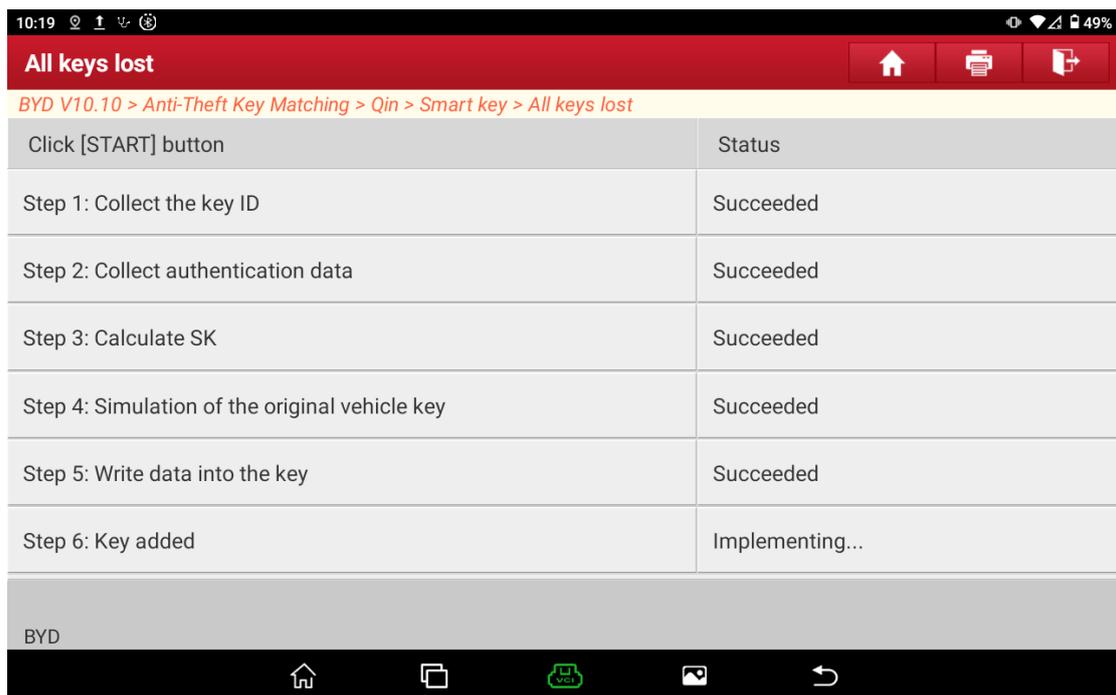
22. The programmer will write data into key (shown in the following picture)



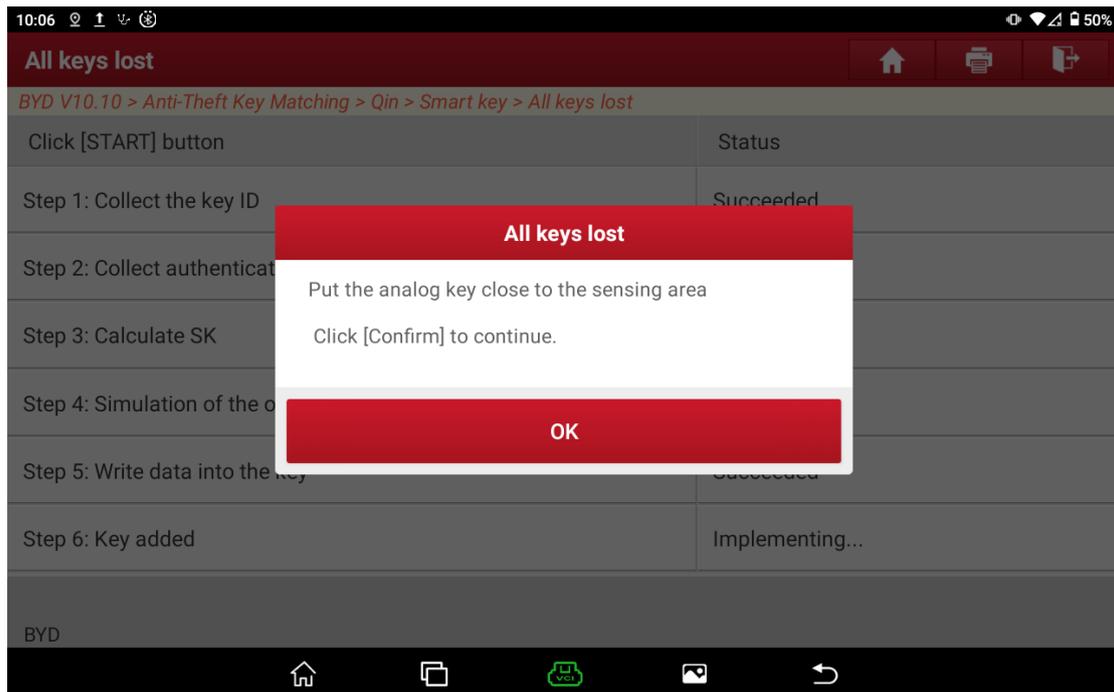
23. After successful writing, since multiple keys will be generated (but at most 3 keys can be matched), click the corresponding button according to the actual situation (click [OK] to reenter the last step, and write the data into new keys) (shown in the following picture)



24. Step 5 ended (succeeded), step 6 will be implemented automatically (shown in the following picture)

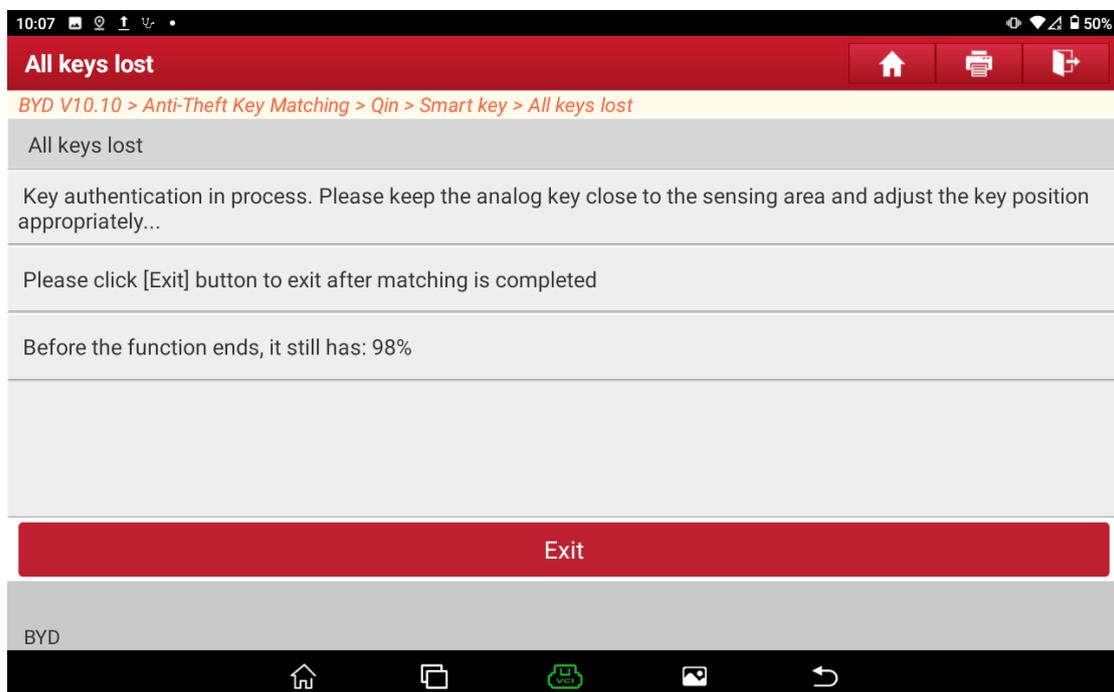


25. Operate according to the prompt, and then click [OK] (shown in the following picture)



26. Operate according to the prompt, analog key authentication in process, it will proceed automatically (shown in the following picture)

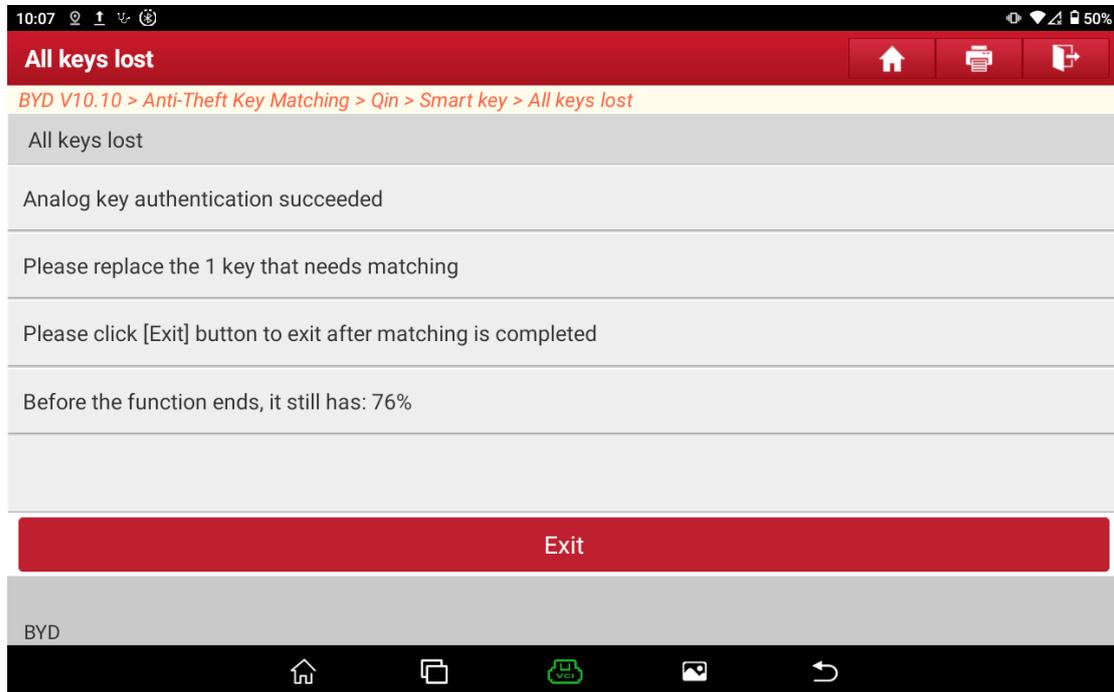
Notes: put the analogy key close to the sensing area and you can just adjust the position of analog key or the way that analog key is approaching, but you do not need to press the start button.



27. Operate according to the prompt, new key matching in process, it will proceed automatically (shown in the following picture)

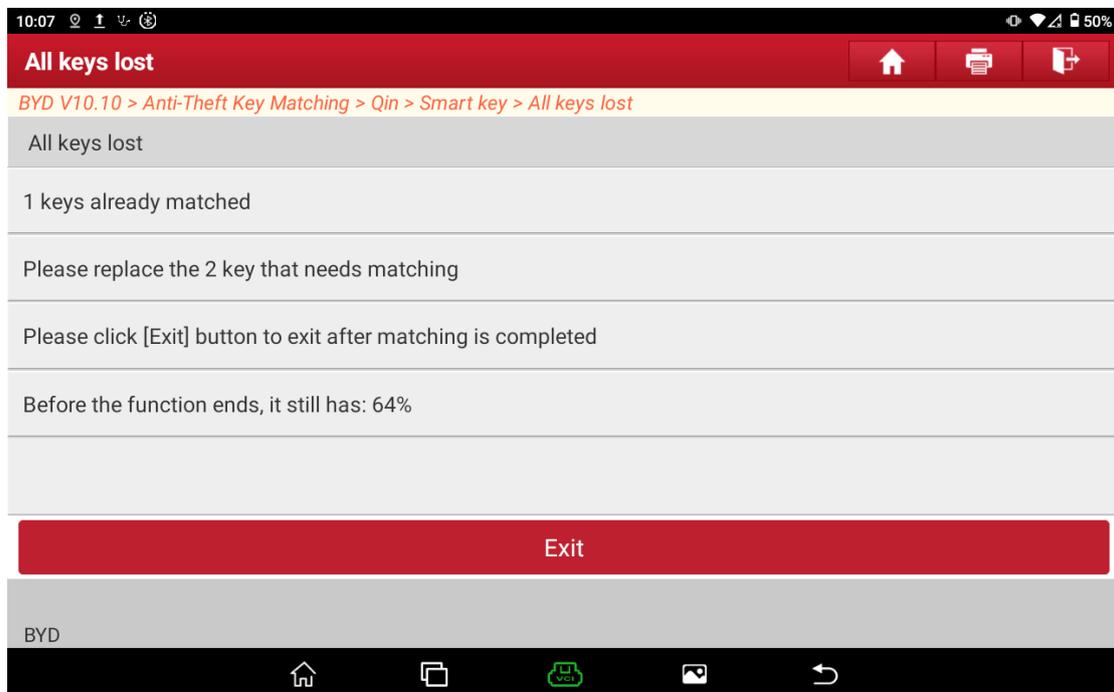
Notes: replacing the key that needs matching means removing the analog key and put one key that needs matching close to the sensing area. The operation method is the same as that of approaching the analog key to sensing area. The function sometimes

has a time limit, when the time is up, it will exit automatically regardless of whether the matching is completed or not. Because a maximum of 3 new keys can be matched, you can actively exit when all the keys have been matched (maybe 1, 2, or 3).

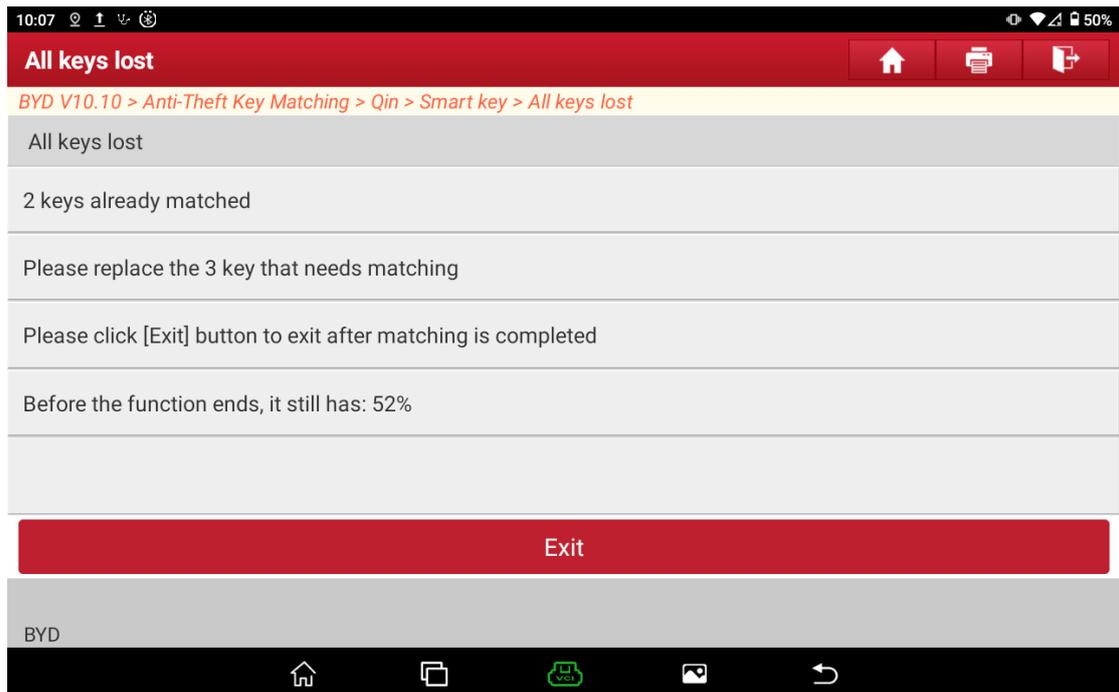


Here we match 3 keys (shown in the following picture)

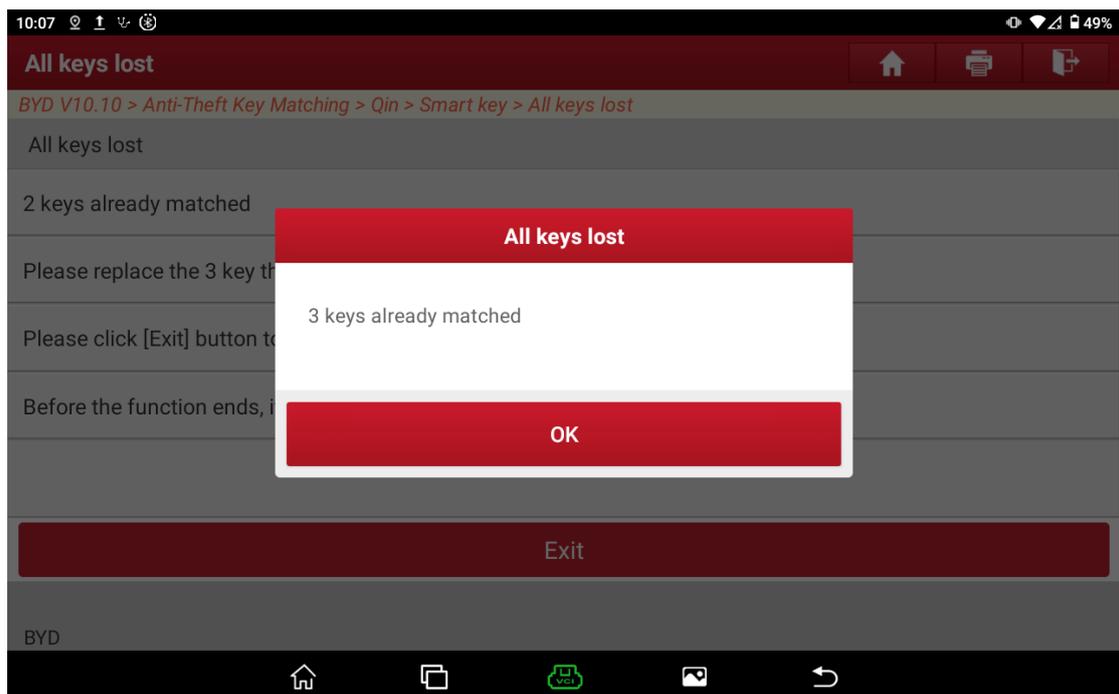
Match 1 key:



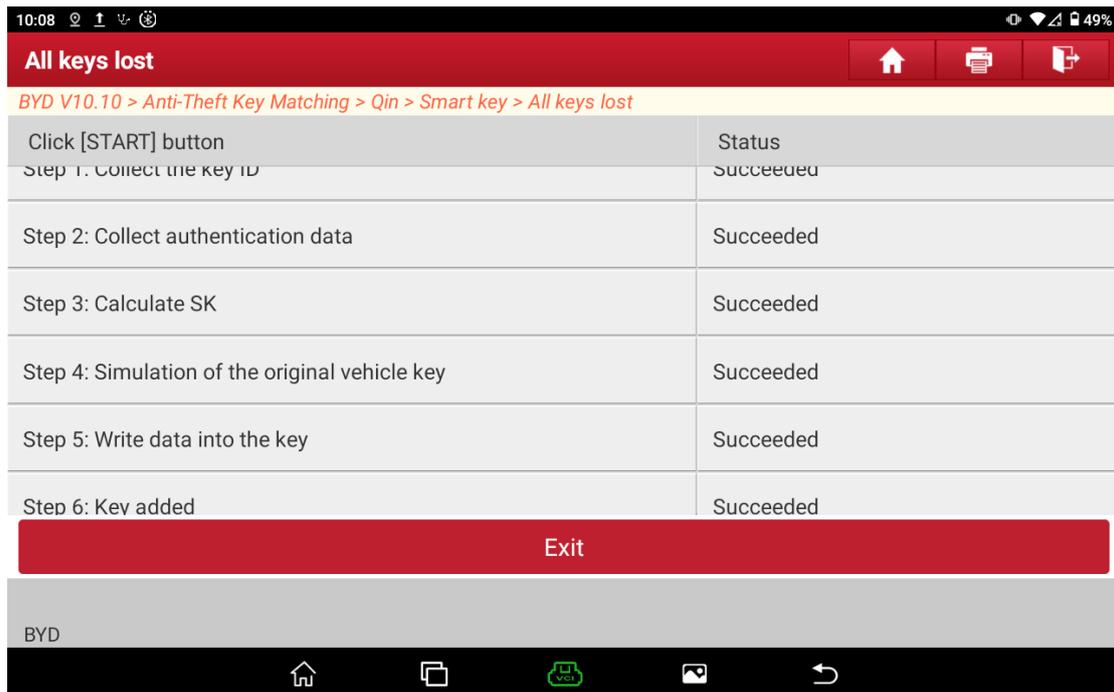
Match 2 keys:



Match 3 keys (at most 3 keys could be matched, click [OK]):



28. Step 6 ended(succeeded), the function of all keys lost is completed, click [Exit](shown in the following picture)



3 Other functions and notes

3.1 Original vehicle key matching:

1. This function will clear all smart keys (accessible vehicle keys) that have been matched and the smart keys that have not been matched will become invalid. (For example: you have two keys to your car, key A and key B; if only key A is matched in this function, then key A is still the accessible vehicle key, and key B is invalid; to use this function again, you need to match key A first and then key B, so that both keys are accessible vehicle keys.)

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