

# Operation instructions of Add A Key and All Keys Lost for Porsche Cayenne

## Features :

Support Add A Key and All Keys Lost for Cayenne 2011-2017, need to remove and read the front-end ECU module.

## Support products :

Launch X431 Pro V5, X431 Tablet V S, which need to be used with Immobilizer programmer G3.

## Tested models:

Porsche Cayenne 2013, VIN: WP1AG2928D\*\*\*



Nameplate of Cayenne 2013

## Operation guideline

### Backup Immobilizer data

1. Remove the vehicle front-end ECU, which is located above the accelerator pedal, as shown in Figure 1-1-1; the removed front-end ECU is as shown in 1-1-2:



Figure 1-1-1: Location of front-end ECU



Figure 1-2-2: Appearance of the front-end ECU

2. Disassemble the front-end ECU and find out the master control chip, as shown in Figure 1-2; confirm the model, there are 4 types: 1L15Y, 1N35H, 2M25J, 5M48H (It is 5M48H for this vehicle model):

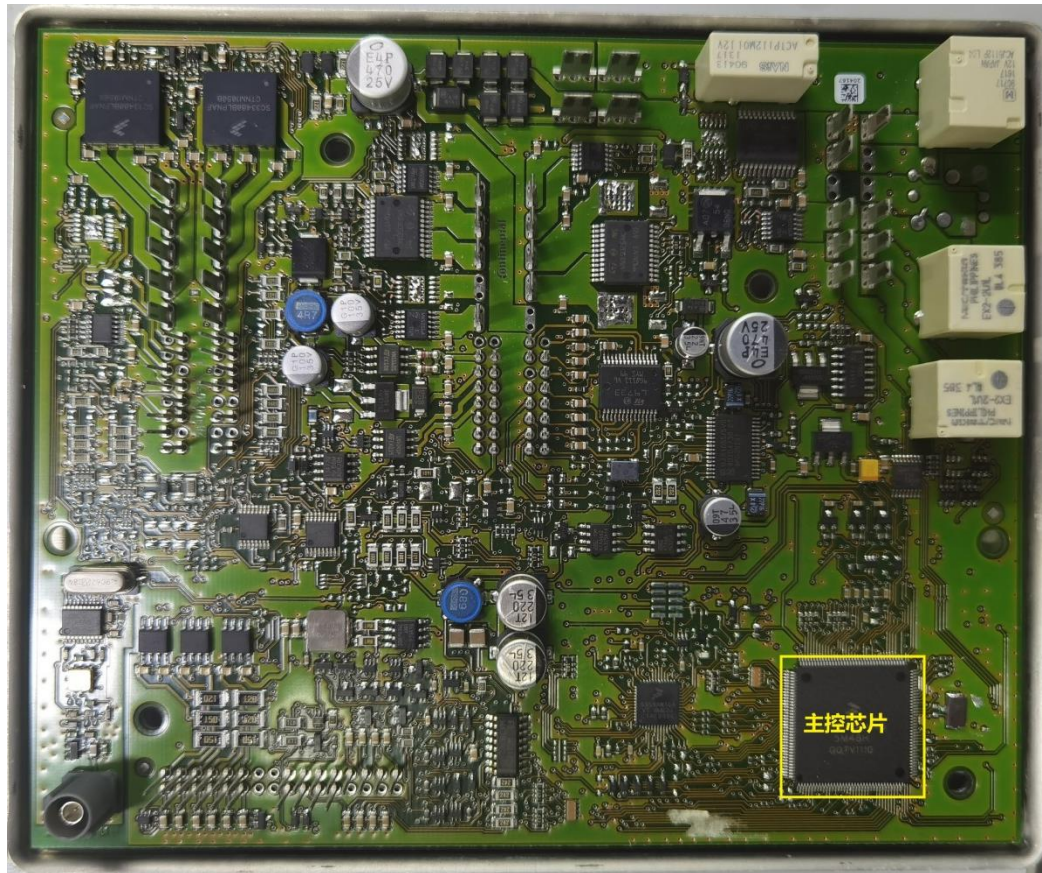


Figure 1-2: Wiring diagram of front-end ECU

- a) Connect the vehicle OBD interface, tablet, Immobilizer programmer G3, as shown in Figure 1-3:

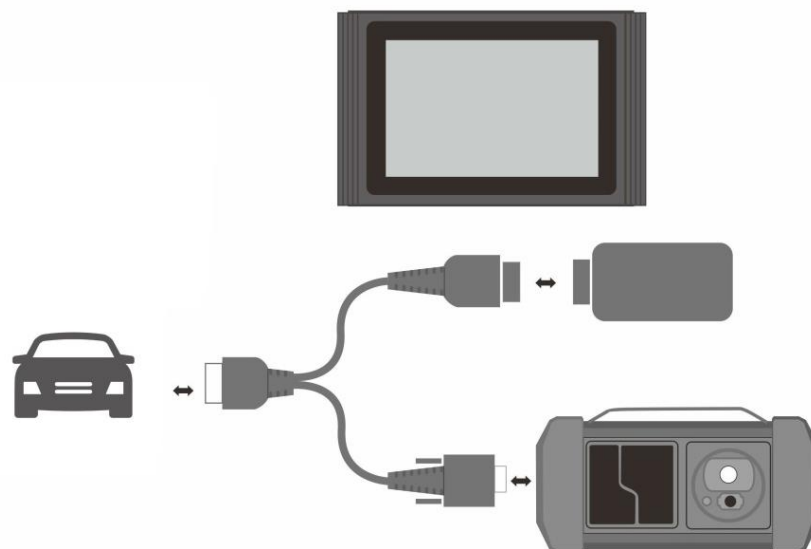


Figure 1-3: Diagram of connecting vehicle, tablet and Immobilizer programmer G3



- b) Enter the Porsche Immobilizer software and it will show the menu of main functions of Immobilizer, as shown in 1-4:

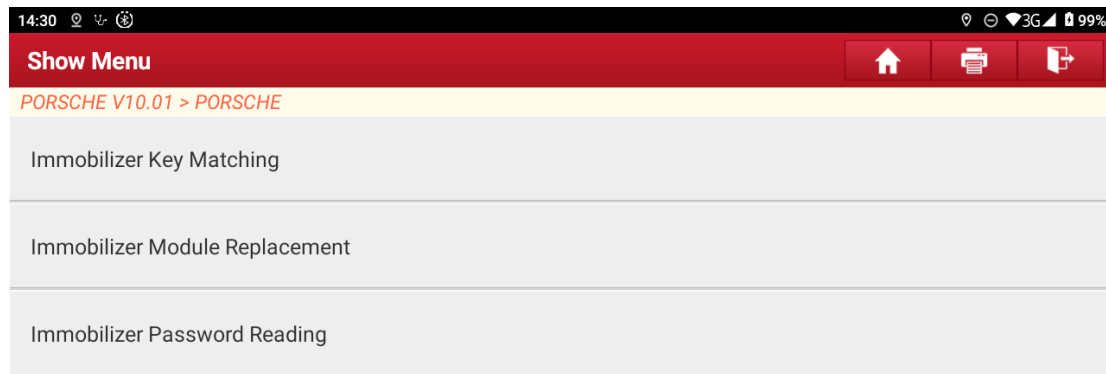


Figure 1-4: The menu of Immobilizer main functions

- c) Select "Immobilizer Password Reading> Cayenne> 2011-2017> 5M48H", the current menu is as shown in 1-5:

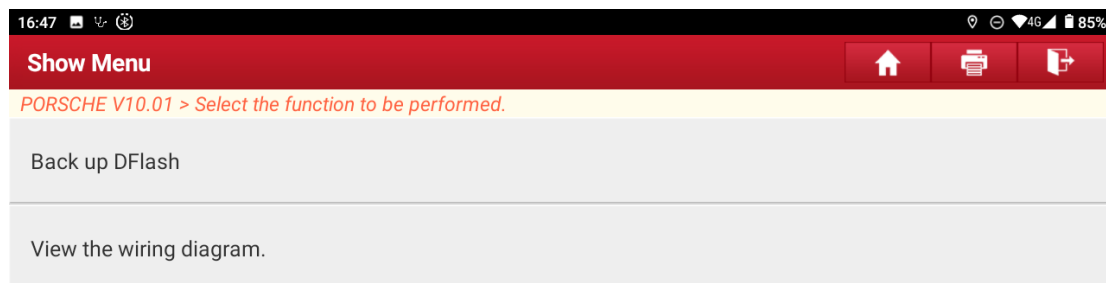


Figure 1-5: Immobilizer Password Reading sub-function menu

d) Click **【View the wiring diagram】**, as shown in Figure 1-6:

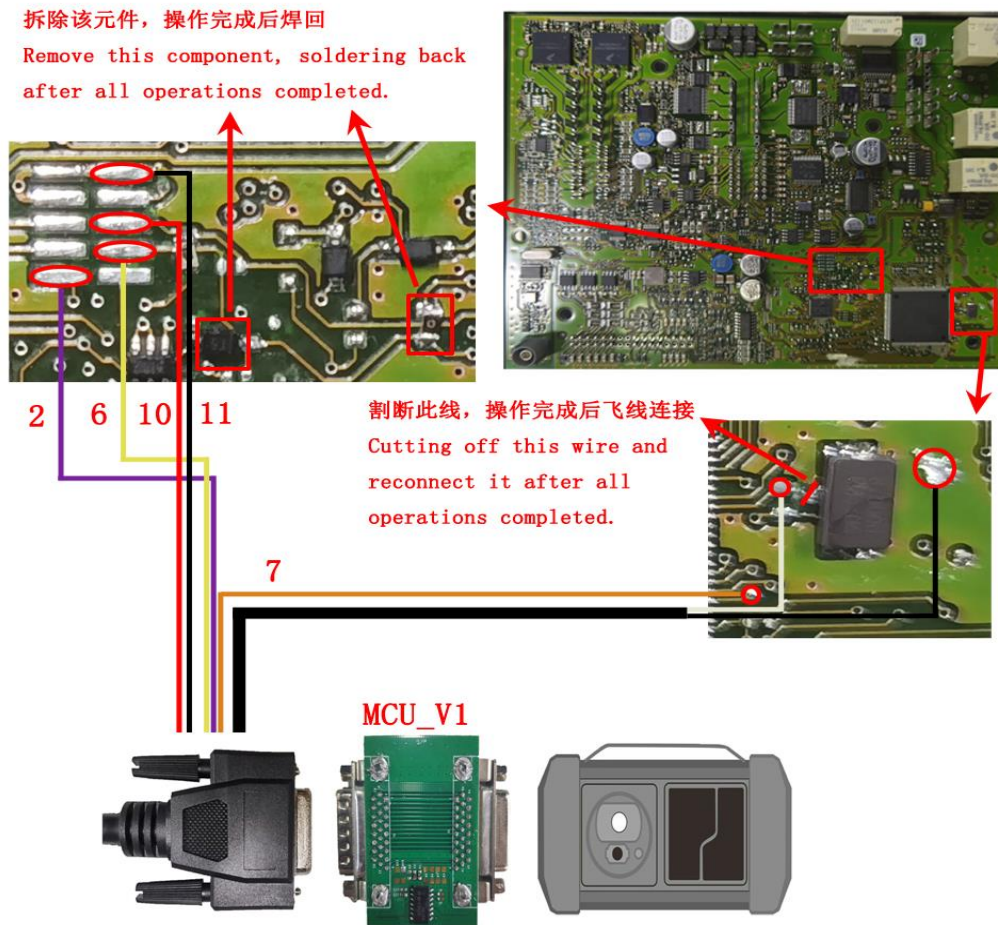


Figure 1-6: The wiring diagram

e) Complete wire soldering according to the wiring diagram. Click **【Back up DFlash】**, it will take about 15 seconds. The input box will pop up when the backup is successful, enter the file name, as shown in Figure 1-7:

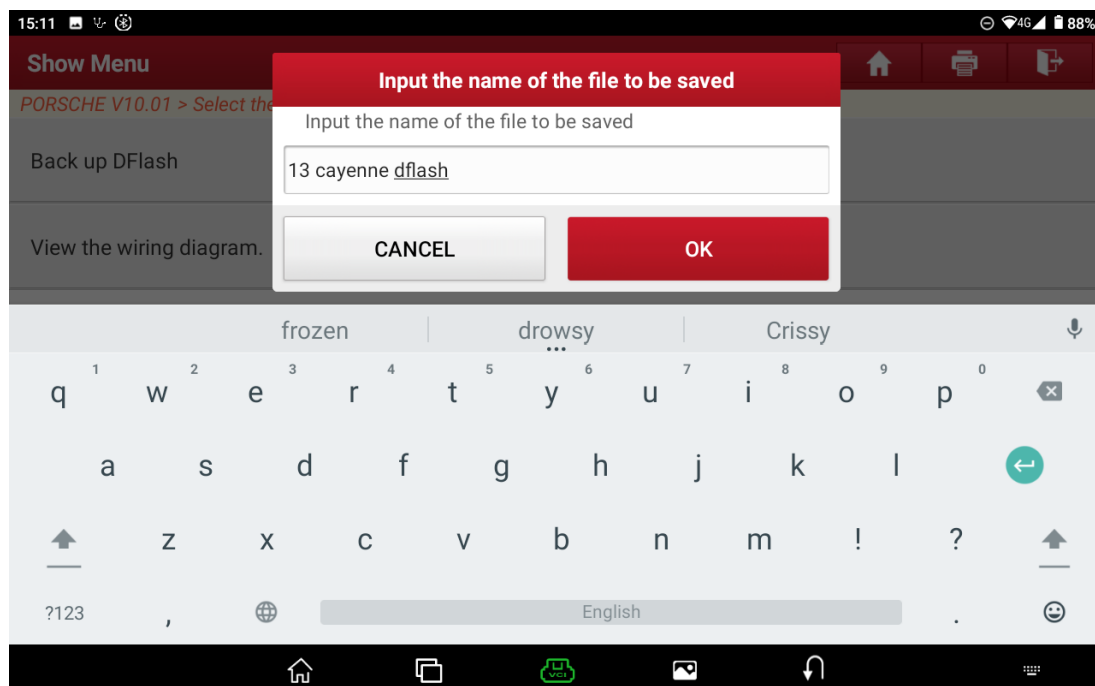


Figure 1-7: Enter the file name

- f) The file is successfully saved, and it will display the path of saving, as shown in Figure 1-8:

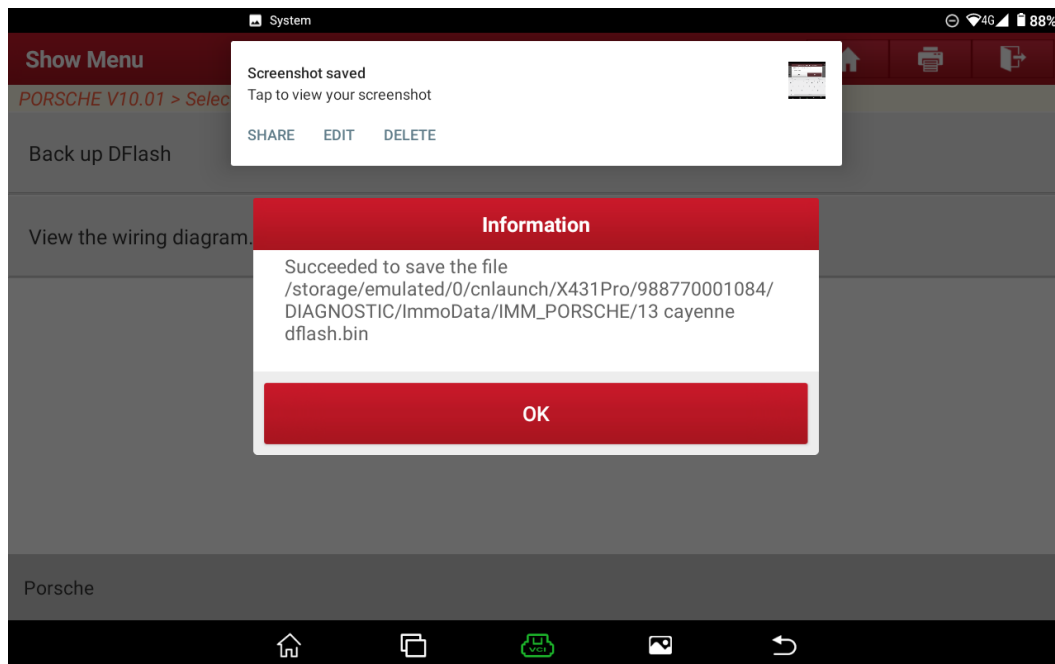


Figure 1-8: The path of saving the file

### 3. Generate dealer keys

- a) Return to the main menu of Immobilizer functions, select "Immobilizer Key Matching> Cayenne> 2011-2017", the current menu is shown in Figure 2-1:

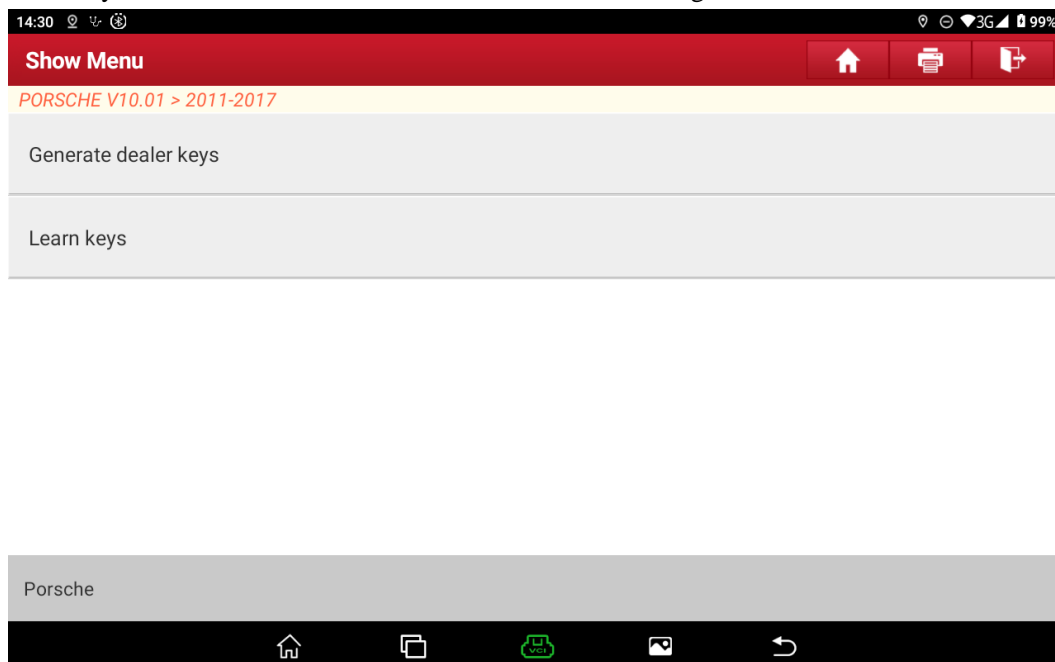


Figure 2-1: Immobilizer Key Matching sub-function menu

- b) Select **【Generate Dealer Keys】**, and a list of backed up Immobilizer data files will pop up, as shown in Figure 2-2:

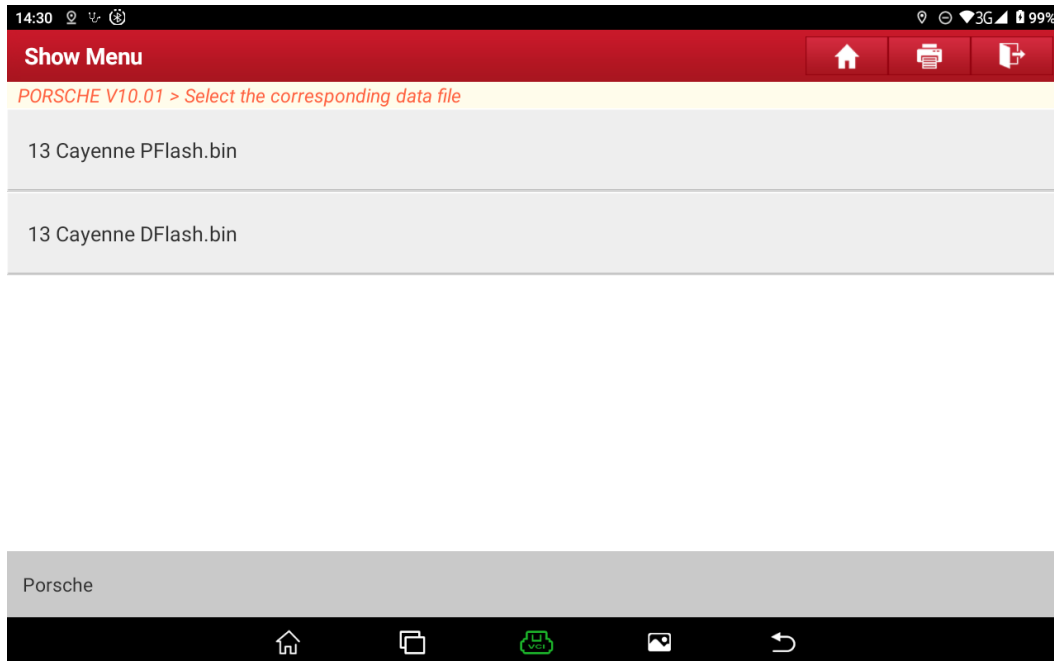


Figure 2-2: List of Immobilizer data files

- c) Select "13 cayenne dflash.bin", load the Immobilizer data, and it will display the IDs of 8 key positions, as shown in Figure 2-3:



Figure 2-3: Key information

- d) Select a blank key position (ID: FFFFFFFF), and it will prompt "Please put the key to be generated into the Immobilizer programmer G3, and then click "OK", follow the prompts, as shown in Figure 2-3:



Figure 2-4: The key is placed in the Immobilizer programmer G3

- e) Click “OK” and wait for about 10 seconds, the generation is successful.

#### 4. Key Learning

- Restore the front-end ECU, solder back the soldered components, and reconnect the cut wires. Close the cover and install it back on the vehicle. If the module is abnormal, the key cannot be pulled out after inserted into the ignition switch, and needs to recheck the module circuit.
- Select **【Key Learning】**, it prompts "All keys will be learned again (including the original keys)", click “OK” to continue, and it prompts "Turn on Emergency Flashers", and click “OK” to continue after completion.
- Enter the system and it will display a list of backed up Immobilizer data files, as shown in Figure 3-3:



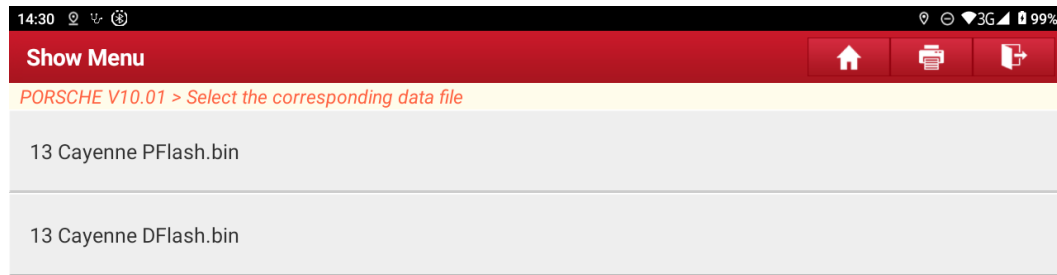


Figure 3-3: Immobilizer data file list

- d) Select "13 Cayenne dflash.bin", the input box pops up, and input the 1-digit number of keys to be learned (enter 2), as shown in Figure 3-4:

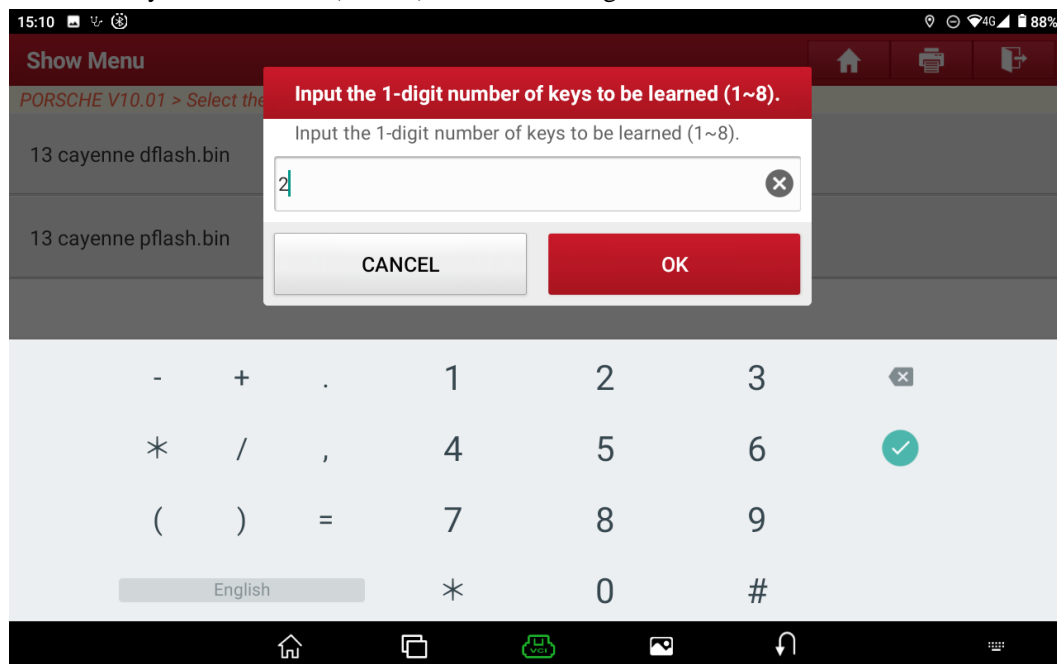


Figure 3-4: Input the 1-digit number of keys to be learned

- e) After clicking "OK" for a few seconds, it prompts "Insert the first key and turn on the ignition switch". At this time, the instrument does not light up, and the mileage displays "2-0", as shown in Figure 3-5:



Figure 3-5: The instrument displays 2-0 with black screen

- f) Insert the first key, and then click “OK”. After a few seconds, the instrument will light up, the mileage will display "2-1", and the first key has been learned successfully, as shown in Figure 3-6:



Figure 3-6: The illuminated instrument displays 2-1

- g) It prompts "Insert the second key and turn on the ignition", insert the second key, and then click “OK”. After a few seconds, the instrument will light up, the mileage will display "2-2", and the second key has been successfully learned, as shown in Figure 3-7:



Figure 3-7: The illuminated instrument displays 2-2

- h) Start to configure the system. After about 10 seconds, the learning is complete, and the normal mileage will be shown on the instrument, as shown in Figure 3-8:



Figure 3-8: The instrument returned to normal

## Statement:

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