

Volvo Toothless Knob Key Matching

Tested Model: Volvo S40 2012

Function Description:

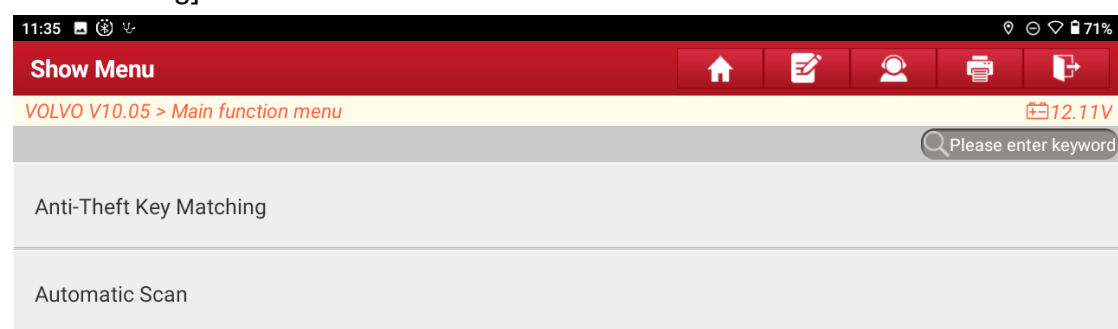
Toothless knob key matching

Supported Equipment:

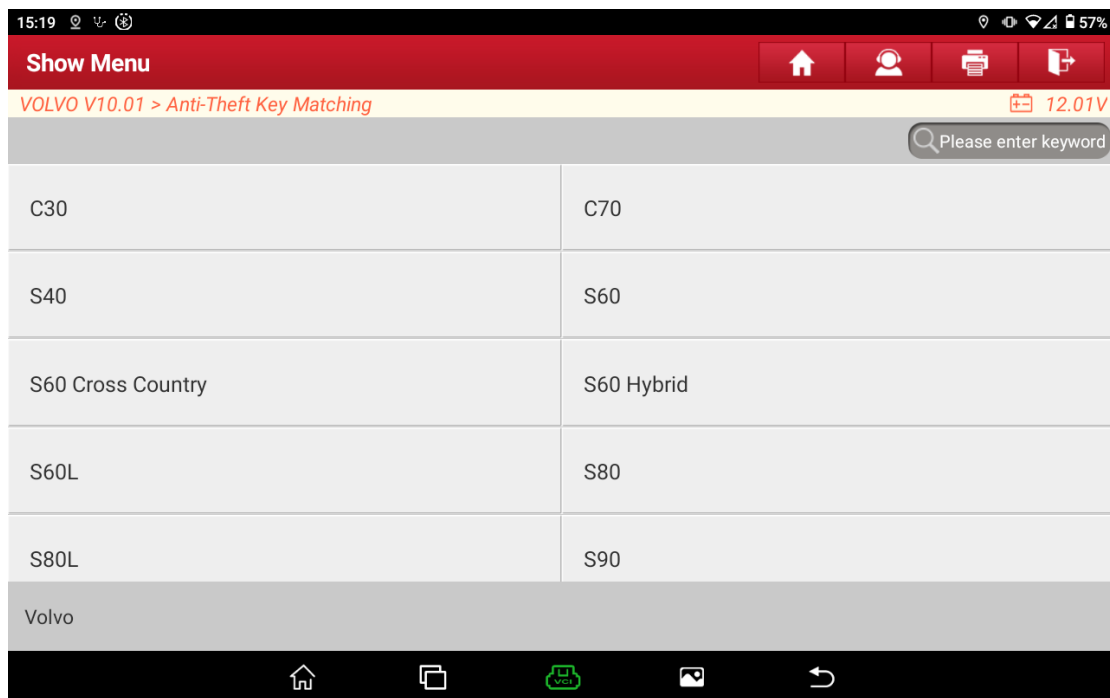
- Launch X-431 IMMO Pro and comprehensive diagnostic equipment equipped with G3/G5

Procedure:

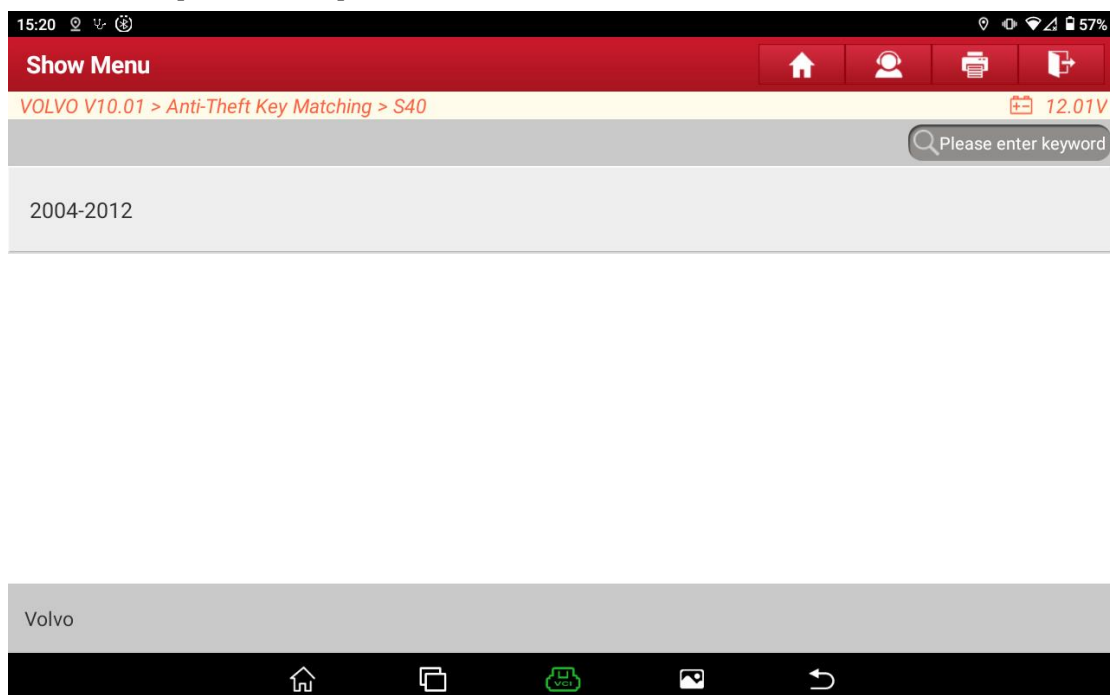
1. On an IMMO Pro, enter the Volvo IMMO menu and choose [Anti-Theft Key Matching].



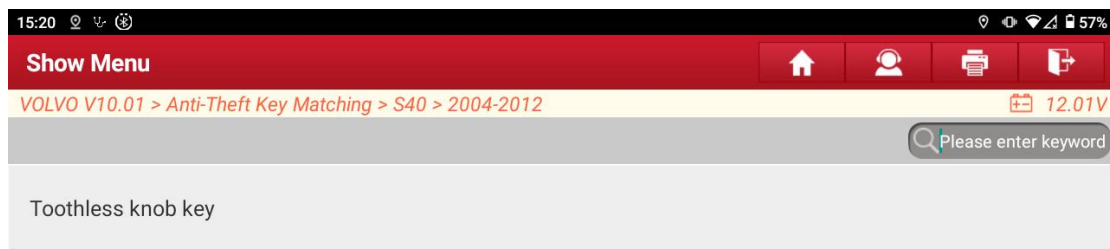
2. Choose [S40].



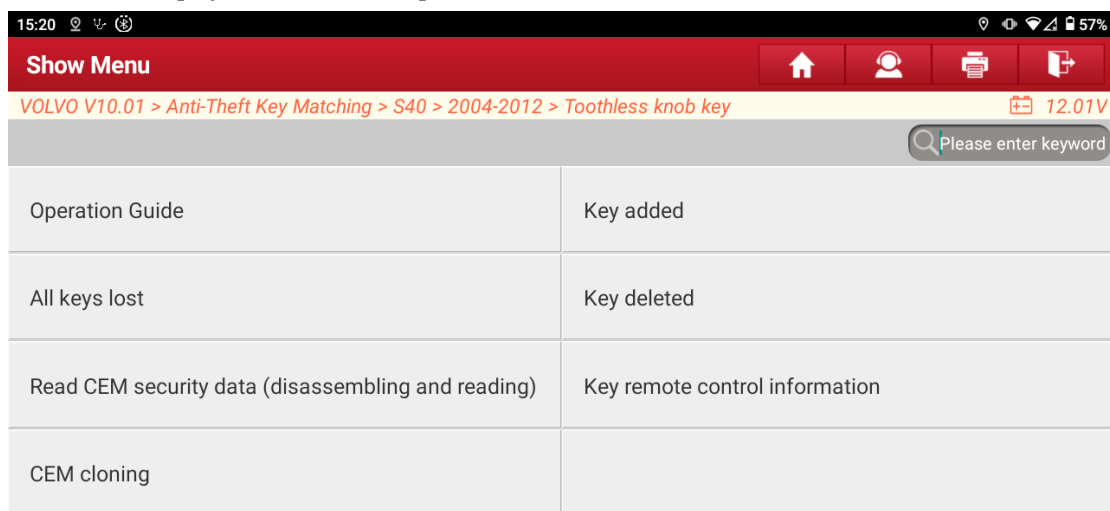
3. Choose [2004-2012].



4. Choose [Toothless knob key].



5. Choose [Operation Guide].



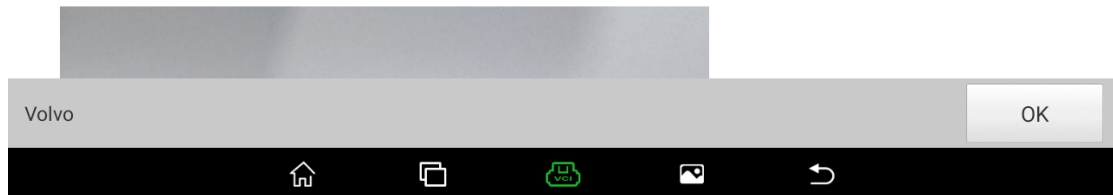
6. Follow the guide to remove and weld the CEM module, connect the adapter board to G3, and then click "OK".



Volvo Anti-theft Operation Guidelines

Basic Information

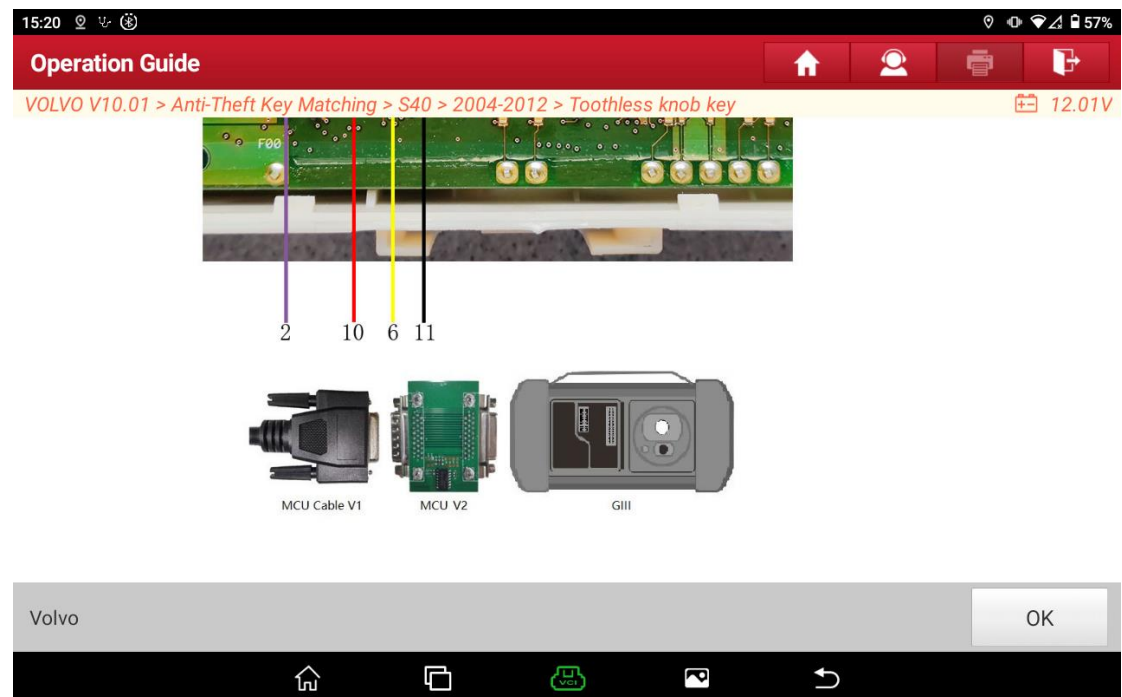
- Key type: Toothless knob key
- Chip type: 48 chip
- Key frequency: 315/433
- Key Batch No. 24/38
- OBD position: Lower left position of main cab
- Key picture:



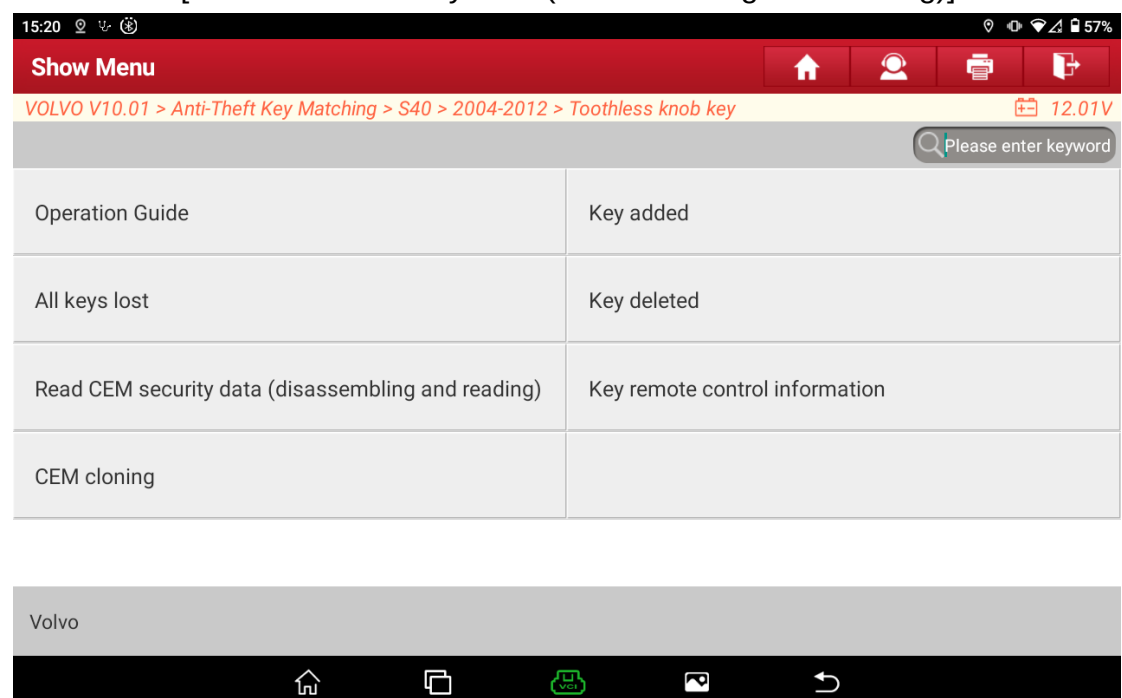
Anti-theft Execution Process

- This process is a general process of matching toothless knob keys:
- 1 .Please read the operation introduction and precautions of this operation guide to understand what to pay attention to during the matching process.
- 2 .Remove original CEM module, connect G3 immobilizer programmer according to the wiring method provided by this operation guide, read the data of corresponding module through the function of [Read CEM Security Data (disassembling and reading)].
- 3. Before perform [Key Added] or [Keys All Lost] function, please perform [Key remote control information] function, save vehicle's original key remote control information.
- 4. Perform [Key Added] or [Keys All Lost] function, it will prompt to load the related data read in step 2 during the function, please follow the steps.

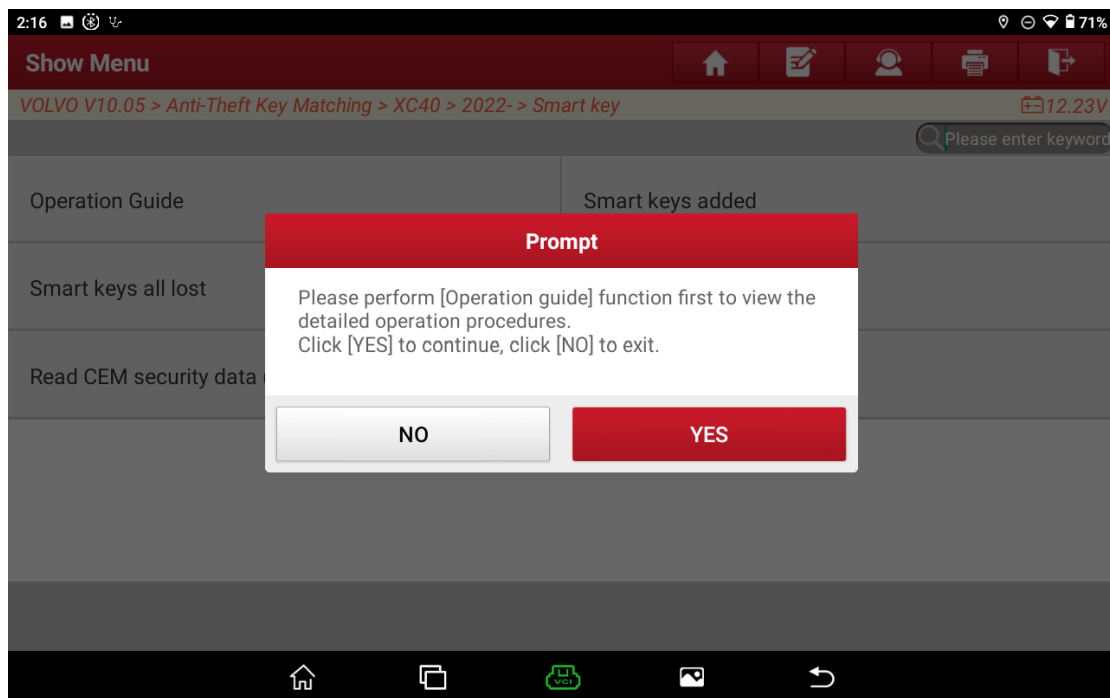




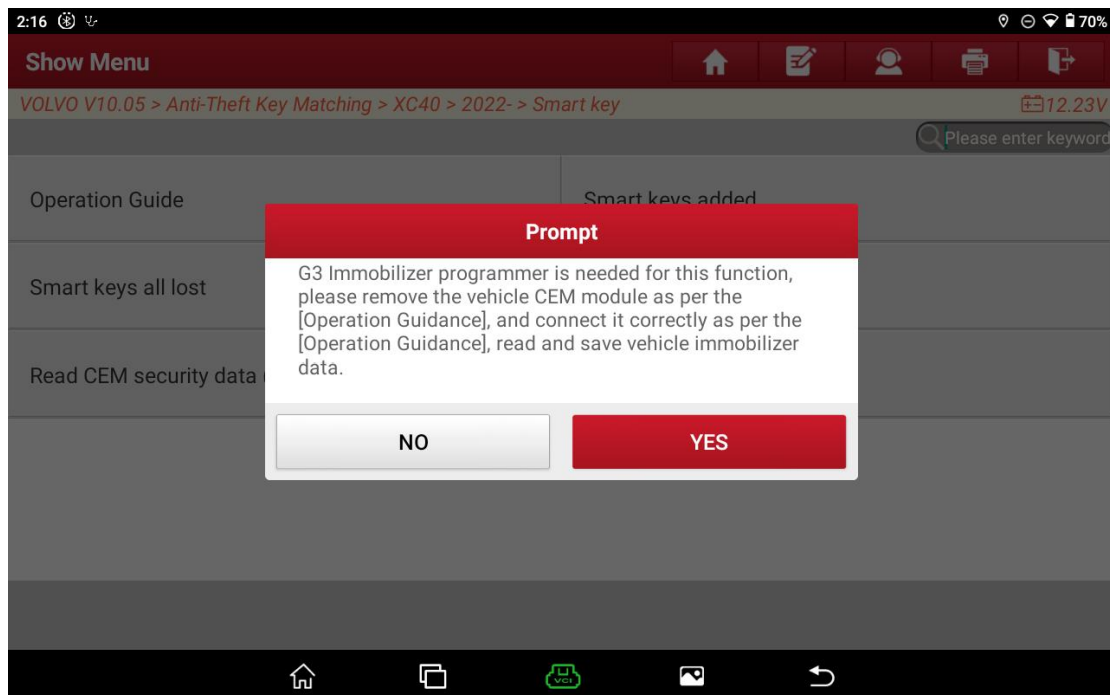
7. Choose [Read CEM security data (disassembling and reading)].



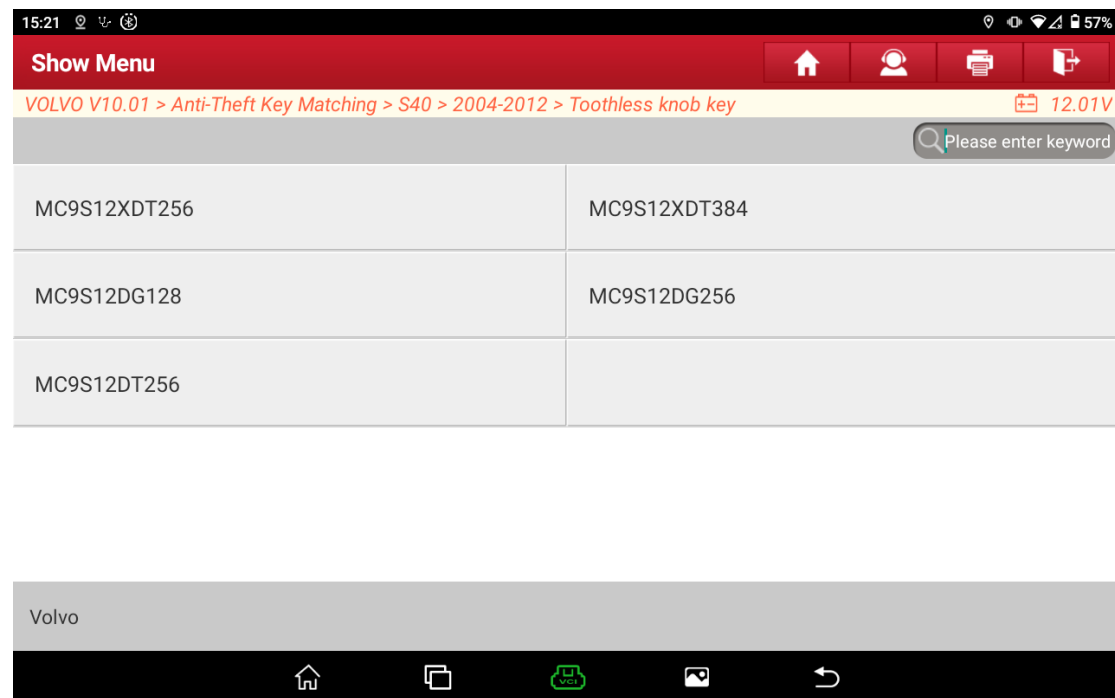
8. Click "YES".



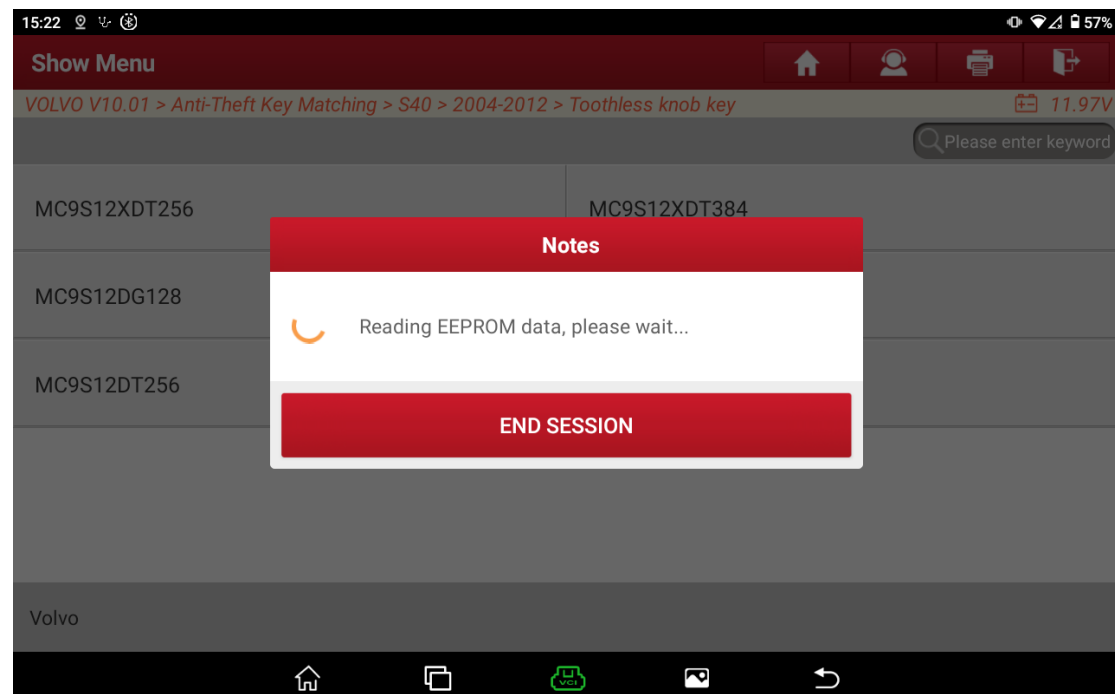
9. Click "YES".



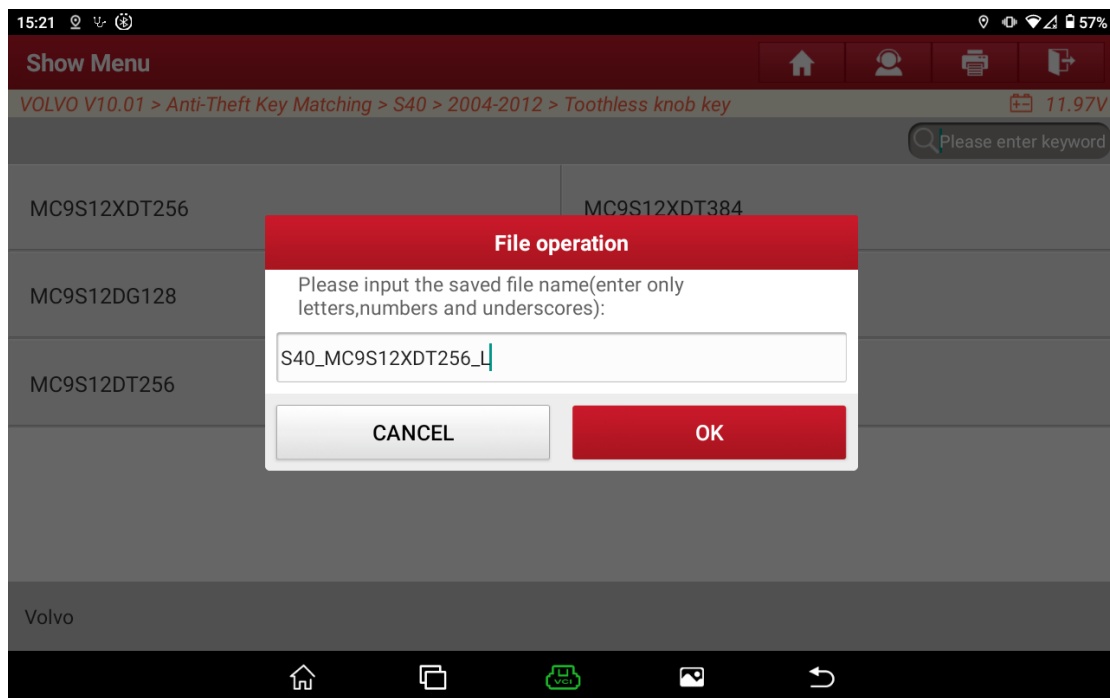
10. Choose [MC9S12DG128].



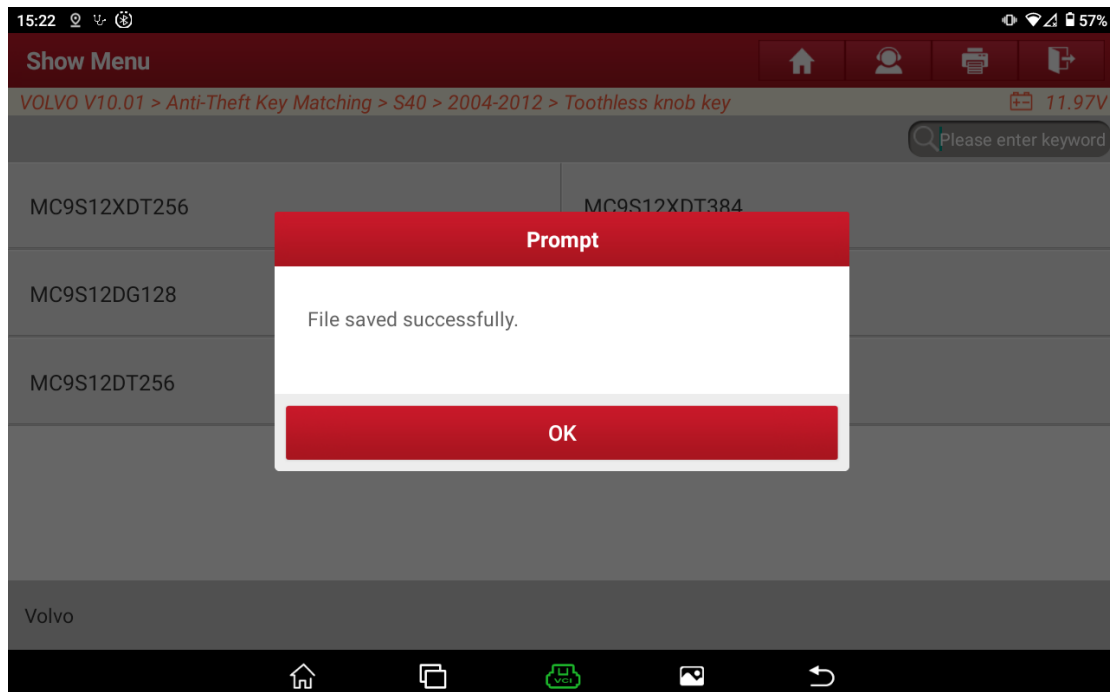
11. Reading in progress.



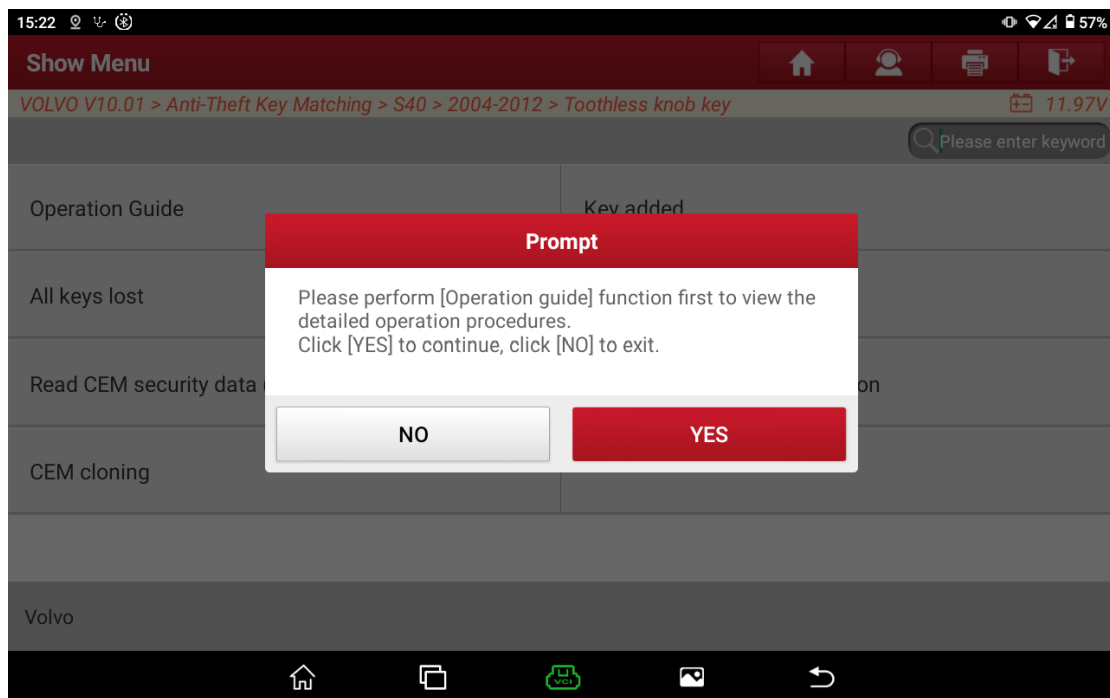
12. Click "OK" to save the file.



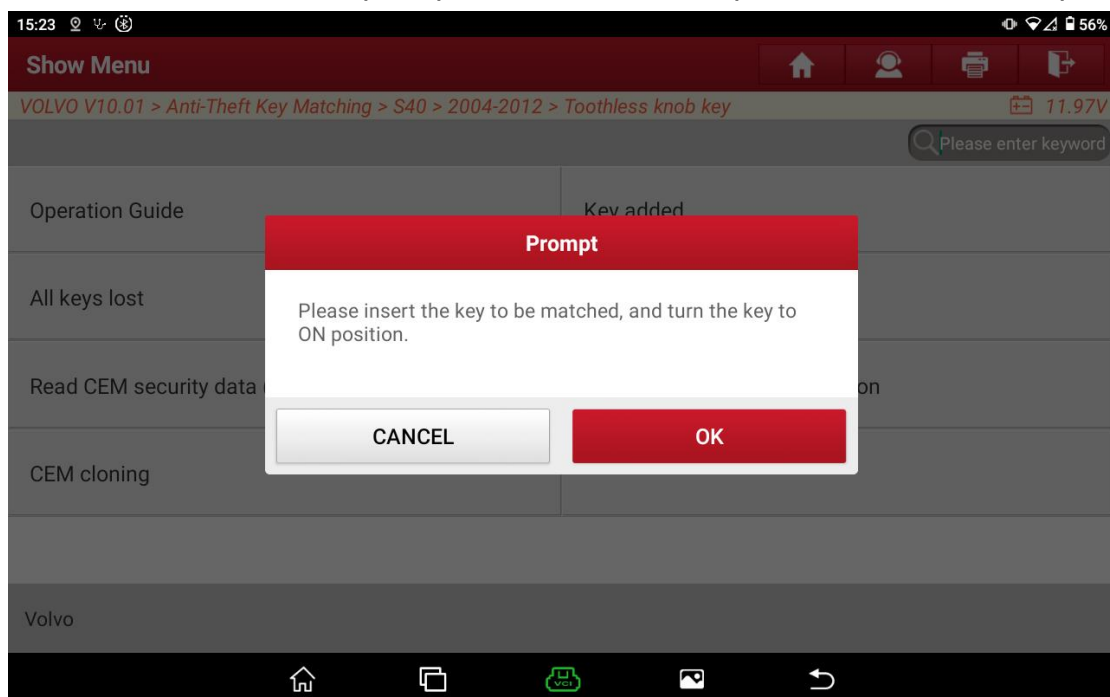
13. Click "OK".



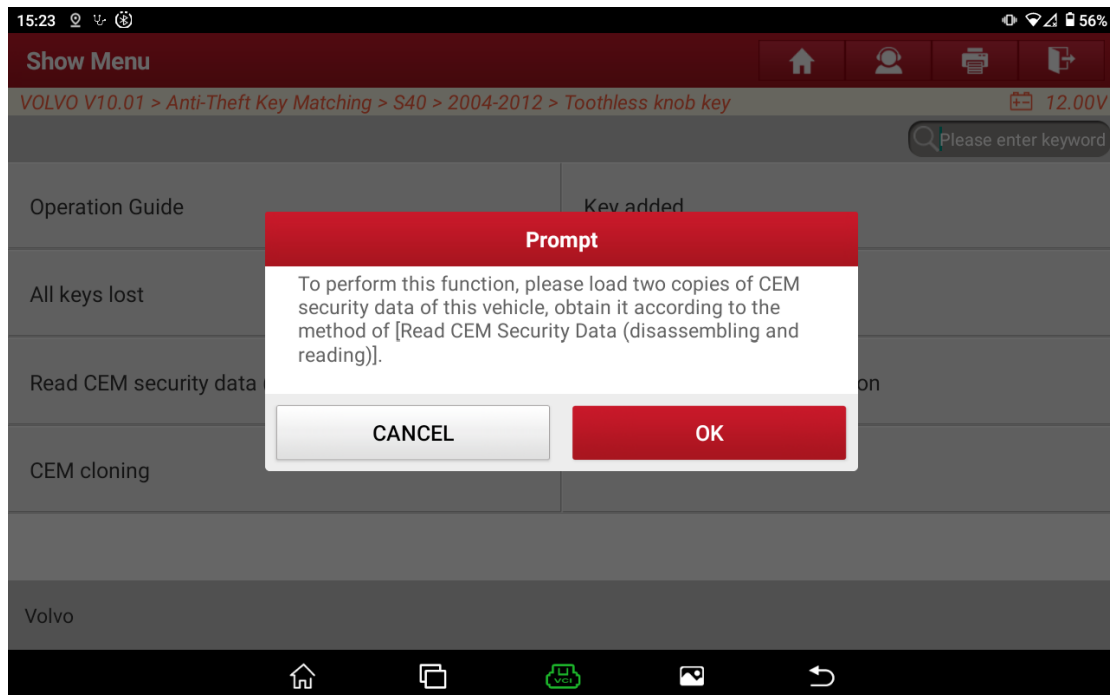
14. Follow the on-screen prompts and click "YES".



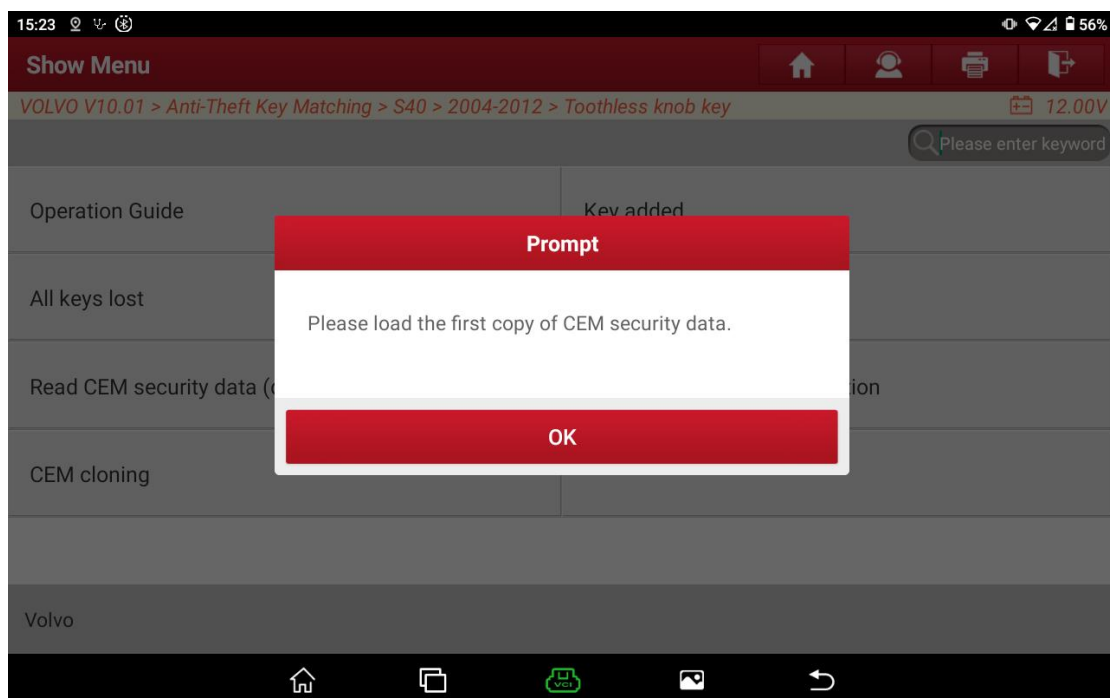
15. Follow the on-screen prompts and click "OK" to proceed to the next step.

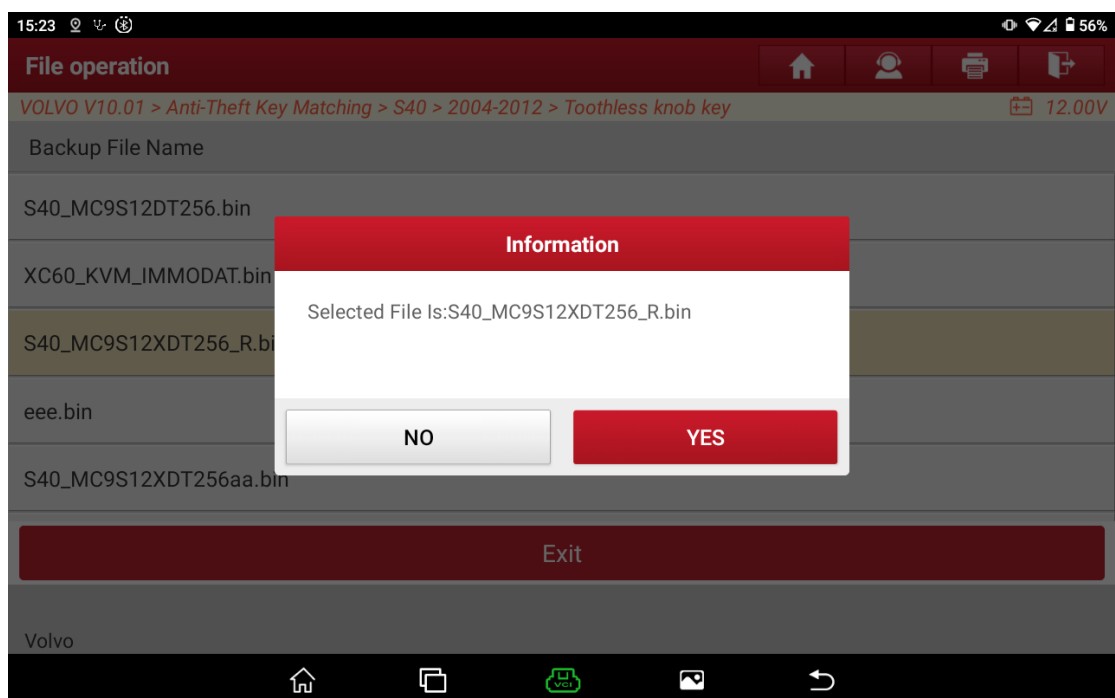
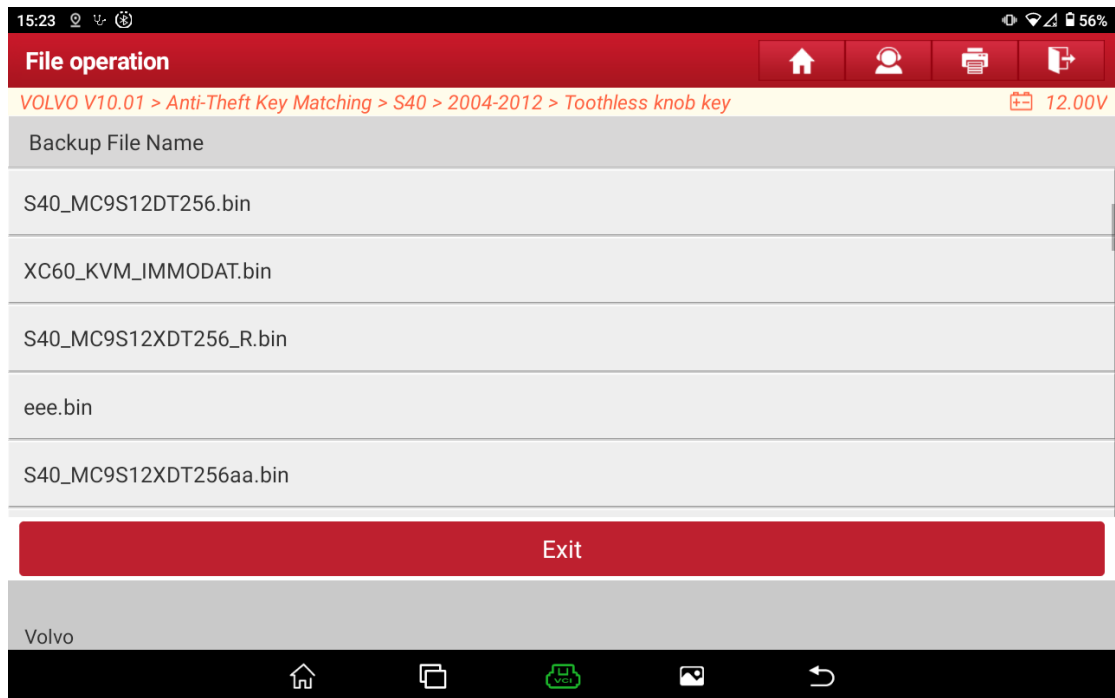


16. A prompt to load two copies of CEM security data appears. Click "OK" to load the immobilizer data.

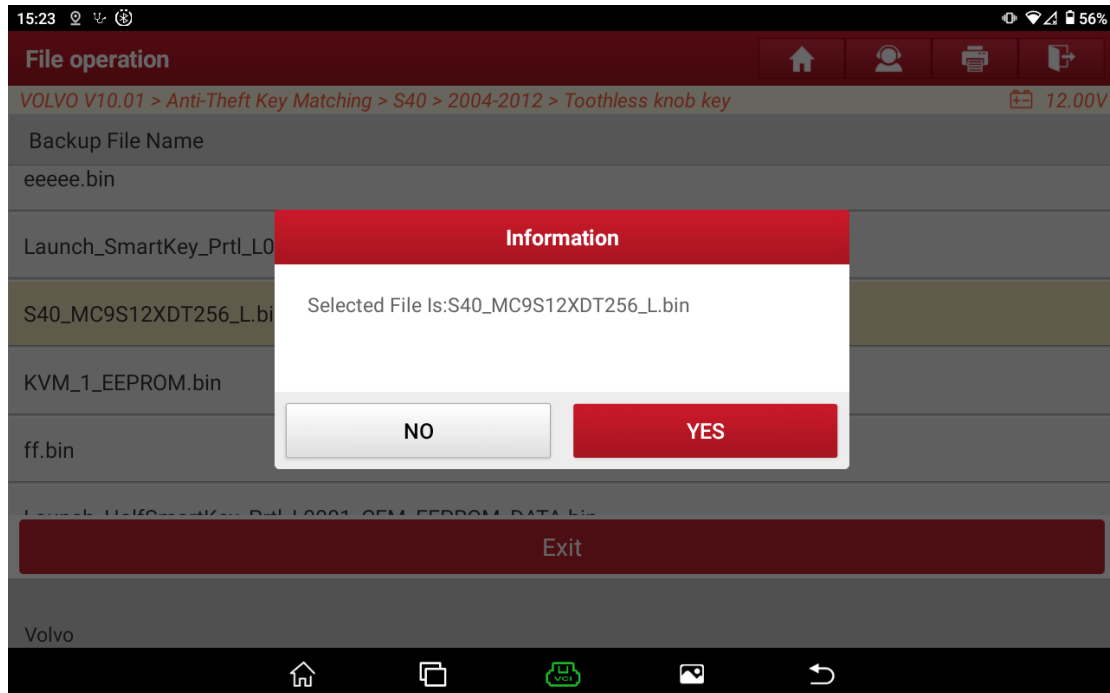


17. Select the first read data file. Choose file S40_MC9S12XDT256_R.b and click "YES".

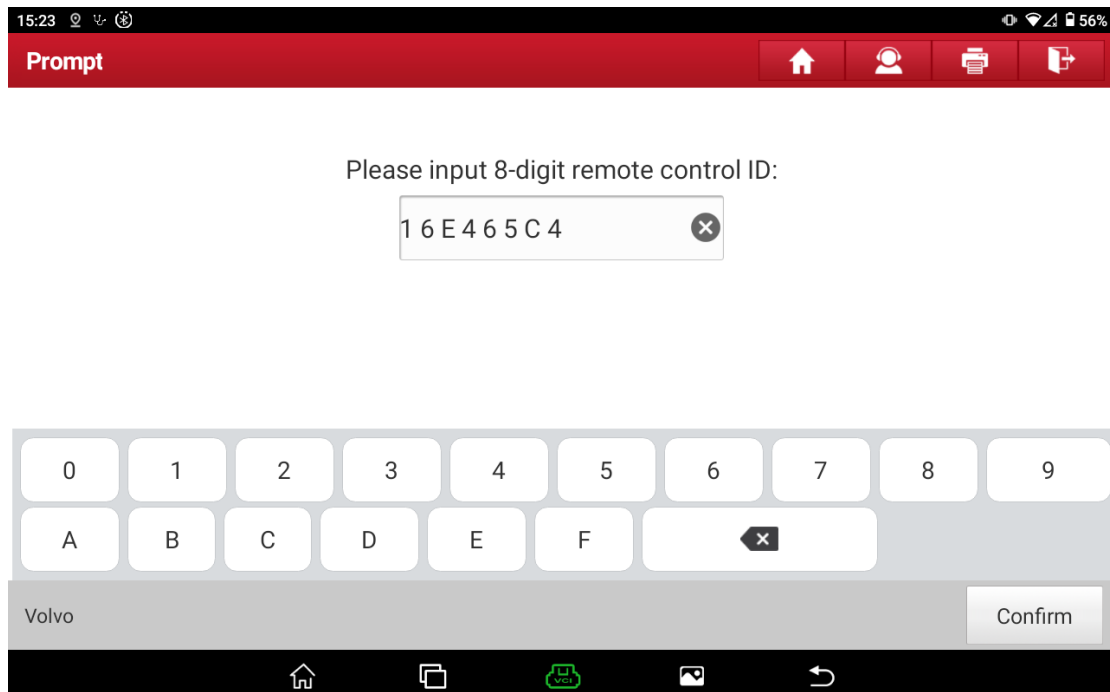




18. Select the second read data file. Choose file S40_MC9S12XDT256_L.bin and click "YES".



19. Enter the 8-digit remote control ID (the remote control ID and remote control data are printed on the key package when purchasing the key).



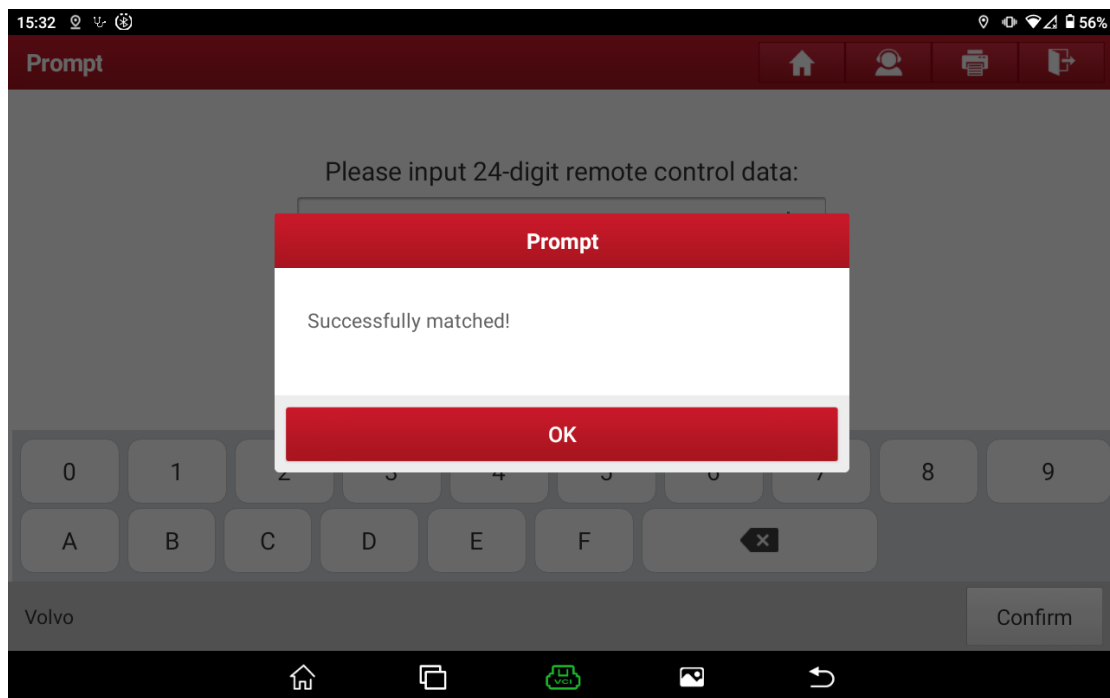
20. Enter the 24-digit remote control data. (The example model uses 24-digit remote control. Please select according to actual conditions.) Click "Confirm" to proceed to the next step.

The screenshot shows the Volvo diagnostic tool interface. At the top, there is a red header bar with the word "Prompt" on the left and four icons (home, person, printer, and a document with an arrow) on the right. Below the header, the text "Please input 24-digit remote control data:" is displayed. Underneath this text is a text input field containing the alphanumeric string "B4152E4C628FC526BE423C45" followed by a small "x" icon to clear the text. Below the input field is a virtual keyboard with two rows of buttons: the first row contains digits 0 through 9, and the second row contains letters A through F and a backspace icon. At the bottom of the keyboard area is a grey bar with the word "Volvo" on the left and a "Confirm" button on the right. The very bottom of the screen shows a black navigation bar with five icons: a home icon, a document icon, a green VCI icon, a camera icon, and a refresh icon.

21. Wait for key matching, which takes approximately 1 minute.

This screenshot shows the same Volvo diagnostic tool interface as the previous one, but with a "Notes" dialog box overlaid in the center. The dialog box has a red header with the word "Notes" in white. Below the header, there is a white area containing a yellow circular progress indicator and the text "Communicating, please wait...". At the bottom of the dialog box is a red button with the text "END SESSION" in white. The background of the interface is dimmed. The "Prompt" header, the input field with the 24-digit data, the virtual keyboard, the "Volvo" bar with the "Confirm" button, and the bottom navigation bar are all visible but faded behind the dialog box.

22. Key matching completed.



Statement:

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