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Volvo-B001

TUTORIAL

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Safety Information

For your own safety and the safety of others, and to prevent damage to the device and vehicles upon which it is used, it is important that the safety instructions presented throughout the product user manual be read and understood by all persons operating or coming into contact with the device.

There are various procedures, techniques, tools, and parts for servicing vehicles, as well as in the skill of the person doing the work. Because of the vast number of test applications and variations in the products that can be tested with this equipment, we cannot possibly anticipate or provide advice or safety messages to cover every circumstance. It is the automotive technician's responsibility to be knowledgeable of the system being tested. It is crucial to use proper service methods and test procedures. It is essential to perform tests in an appropriate and acceptable manner that does not endanger your safety, the safety of others in the work area, the device being used, or the vehicle being tested.

Before using the device, always refer to and follow the safety messages and applicable test procedures provided by the manufacturer of the vehicle or equipment being tested. Use the device only as described in this manual. Read, understand, and follow all safety messages and instructions in this manual.

Safety Messages

Safety messages are provided to help prevent personal injury and equipment damage. All safety messages are introduced by a signal word indicating the hazard level.

DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.

Safety Instructions

The safety messages herein cover situations Auro is aware of. Auro cannot know, evaluate or advise you as to all of the possible hazards. You must be certain that any condition or service procedure encountered does not jeopardize your personal safety.

DANGER

When an engine is operating, keep the service area WELL VENTILATED or attach a building exhaust removal system to the engine exhaust system. Engines produce carbon moxide, an odorless, poisonous gas that causes slower reaction time and can lead to serious personal injury or loss of life.

SAFETY WARNINGS

- Always perform automotive testing in a safe environment.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well ventilated work area, for exhaust gases are poisonous.
- Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while testing.
- Be extra cautious when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Keep a fire extinguisher suitable for gasoline, chemical, and electrical fires nearby.
- Do not connect or disconnect any test equipment while the ignition is on or the engine is running.
- Keep the test equipment dry, clean, free from oil, water or grease. Use a mild detergent on a clean cloth to clean the outside of the equipment as necessary.
- Do not drive the vehicle and operate the test equipment at the same time. Any distraction may cause an accident.
- Refer to the service manual for the vehicle being serviced and adhere to all diagnostic procedures and precautions. Failure to do so may result in personal injury or damage to the test equipment.
- To avoid damaging the test equipment or generating false data, make sure the vehicle battery is fully charged and the connection to the vehicle DLC is clean and secure.
- Do not place the test equipment on the distributor of the vehicle. Strong electro-magnetic interference can damage the equipment.

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Introduction

This manual introduces how to conduct Volvo All Semi-smart Keys Lost on Auro OtoSys IM600.

Two options are available when accessing the IMMO function:

- Manual Selection - the user can select the model, year and key type of the vehicle to identify the IMMO system and type.
- System Selection - the user can select the IMMO system to identify the IMMO type.

➢ **Procedures before getting started:**

1. Connect the OtoFlash to the vehicle's DLC via the included main cable for both communication and power source.
2. Connect the OtoFlash to the IM600 tablet via BT pairing or USB connection.
3. Make sure the user has access to WiFi service.

NOTE

Illustrations used in this manual are samples, and the actual testing screens may vary by vehicle. Observe the menu titles and on-screen instructions to make correct selections and operations.

All Semi-smart Keys Lost via Manual Selection

1. Turn on the IM600 tablet and tap **OtoSys** > **IMMO**. A vehicle menu displays and a disclaimer prompts up. Tap **Accept** to continue.

Figure 1 ***Sample Main Interface***

Figure 2 ***Sample OtoSys Job Menu***

2. Tap **Volvo** on the vehicle menu.

Figure 3 ***Sample Vehicle Menu***

3. Tap **Manual Selection** on the mode menu.

NOTE

You can click the icon near the top-right corner to record the operation data. If you encounter any difficulties, click the icon again to send us the data and the problem, so that our engineers could help. The network should be connected when uploading the data.

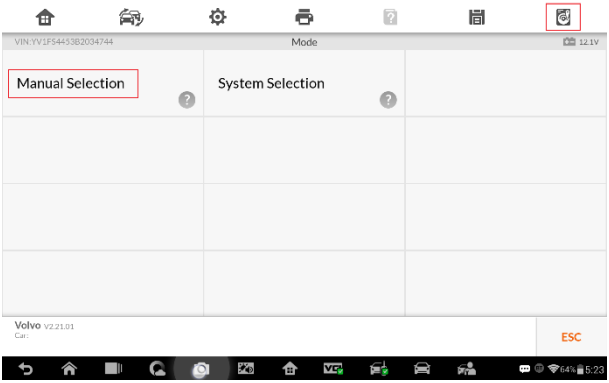

Figure 4 ***Sample Mode Menu***

4. Select the model, year, key type of the vehicle to identify the IMMO system.

Figure 5 ***Sample Model Menu***

Figure 6 *Sample Year/Key Type Menu*

Figure 7 Sample *System Screen*

5. For better communication, please make sure the IM600 tablet and the OtoFlash are connected via USB cable. Then tap **OK** to continue.

NOTE

Please turn off Bluetooth before connecting the USB cable.

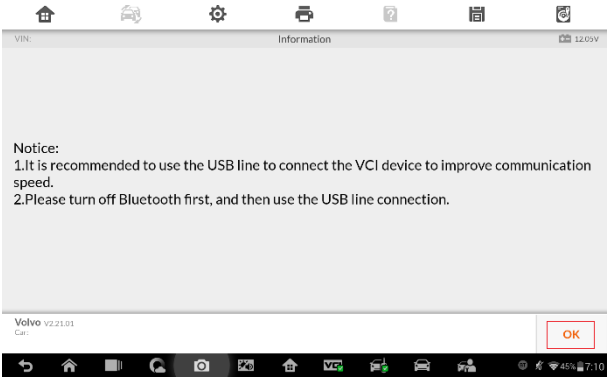

Figure 8 ***Sample Information Screen***

6. Tap **All Semi-smart Keys Lost** on the function menu.

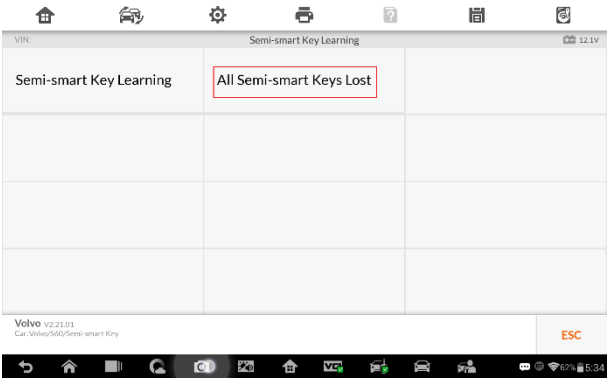

Figure 9 ***Sample Function Menu***

7. Follow the onscreen instruction to press START button and tap **OK** to continue.

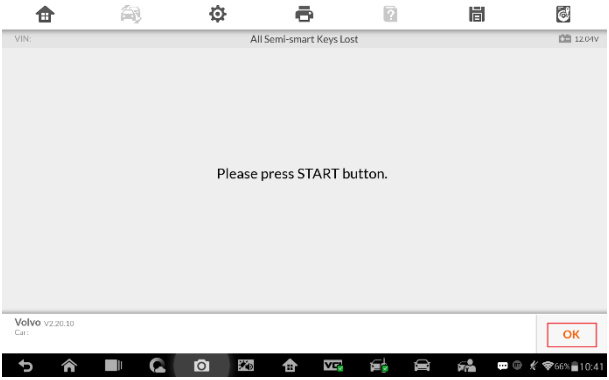

Figure 10 ***Sample All Semi-smart Keys Lost Screen 1***

8. To perform the All Semi-smart Keys Lost function, there must be at least one key. If an original key is cleared, it needs to be learned again. Verify the type of the key and tap **Yes** to continue.

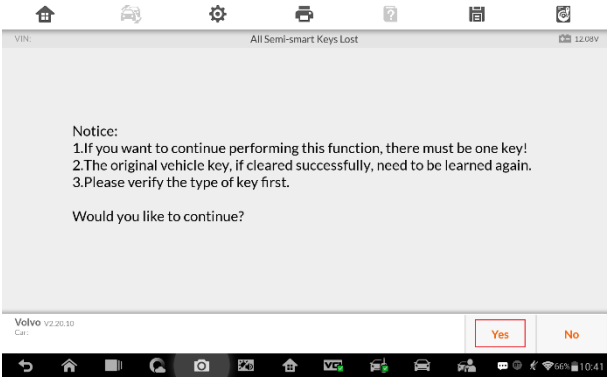

Figure 11 ***Sample All Semi-smart Keys Lost Screen 2***

9. Follow the onscreen instruction to turn the ignition off, and tap **OK** to continue.

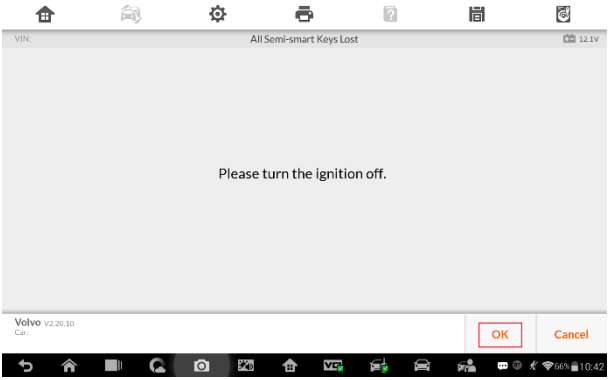

Figure 12 ***Sample All Semi-smart Keys Lost Screen 3***

10. Read the information of keys and tap **OK** to continue.

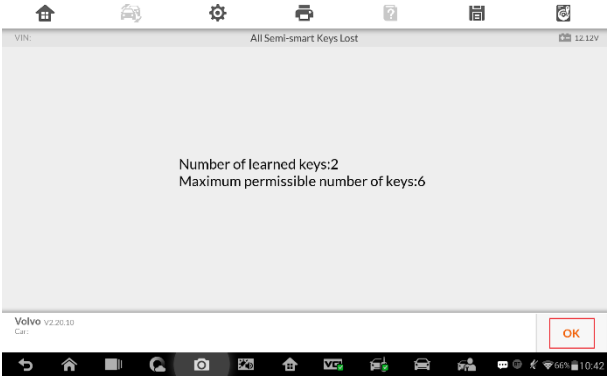

Figure 13 ***Sample All Semi-smart Keys Lost Screen 4***

11. Read the information about the decryption of the immobilizer unit, tap **OK** to start the decryption and wait until the process is completed.

NOTE

The decryption may last 0-8 hours. Tap **ESC** if you want to stop this operation, and you can continue the process from the interrupted point next time.

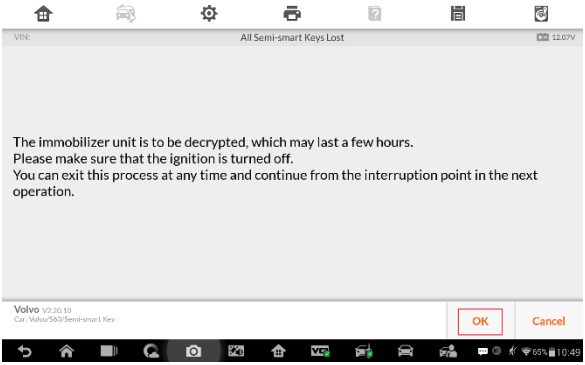

Figure 14 ***Sample All Semi-smart Keys Lost Screen 5***

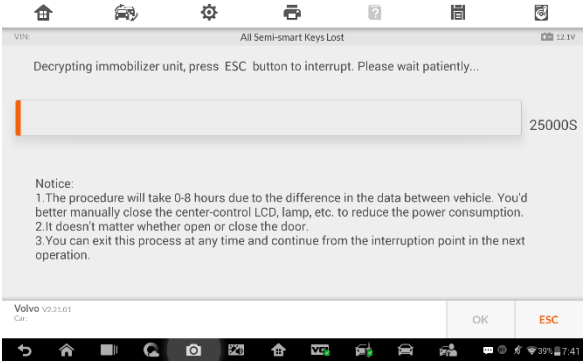

Figure 15 ***Sample All Semi-smart Keys Lost Screen 6***

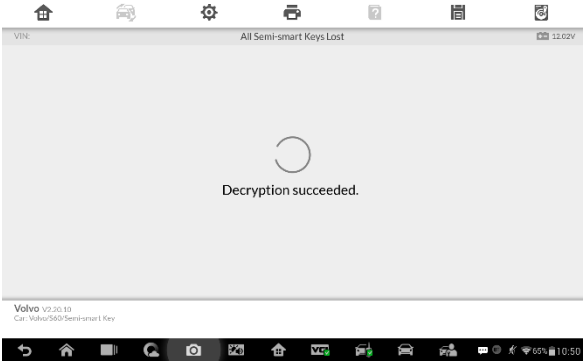

Figure 16 ***Sample All Semi-smart Keys Lost Screen 7***

12. Then the IM600 tablet starts to read the security data. When the security data is copied successfully, tap **OK** to continue.

NOTE

Do not disconnect the OBD connection during the process.

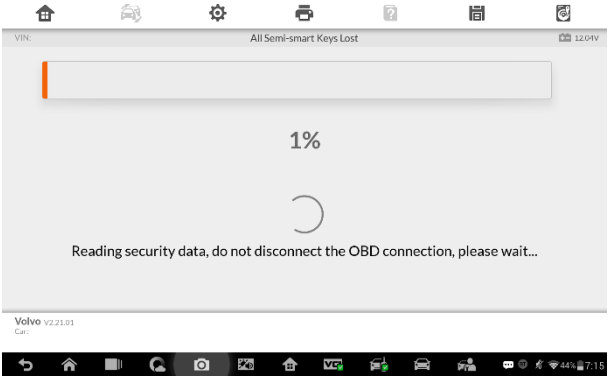

Figure 17 ***Sample All Semi-smart Keys Lost Screen 8***

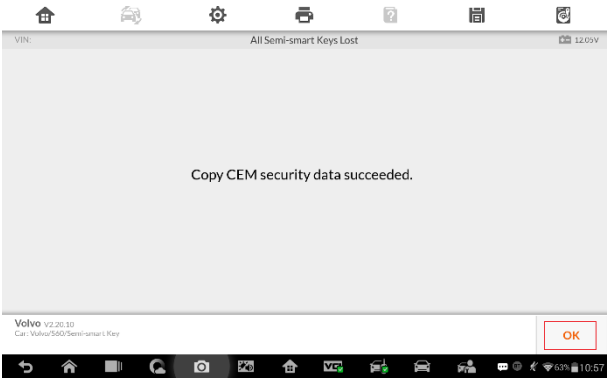

Figure 18 ***Sample All Semi-smart Keys Lost Screen 9***

13. Then all keys are cleared and a message prompts up. Tap **OK** to continue.

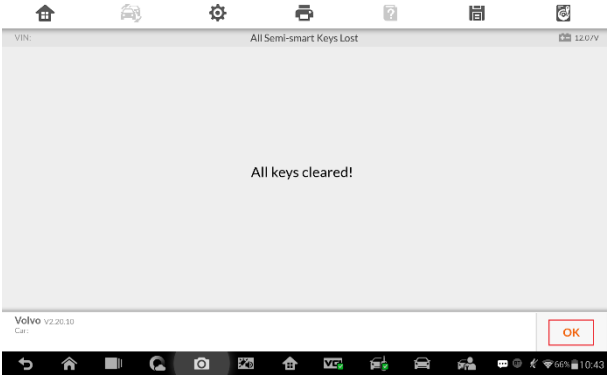

Figure 19 ***Sample All Semi-smart Keys Lost Screen 10***

14. When Key Learning starts, insert the key to be learned into the key slot and tap **Learning** to continue.

NOTE

If the key pops out, tap **Learning** first and then insert the key promptly.

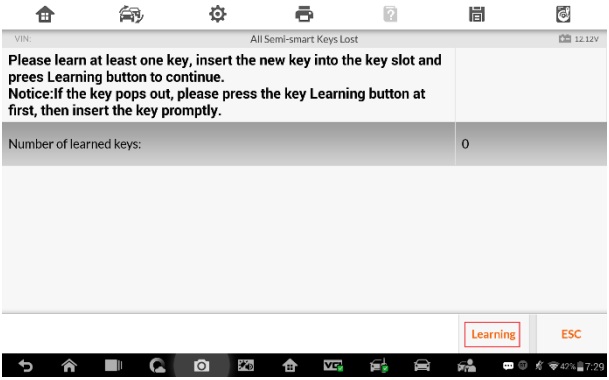

Figure 20 ***Sample All Semi-smart Keys Lost Screen 11***

15. When the key is learned successfully, tap **Yes** to repeat step 14 and learn the next key or tap **No** to complete Key Learning.

NOTE

Please turn the ignition off and remove the learned key from the key slot before you start to learn the next key. Tap **OK** to continue.

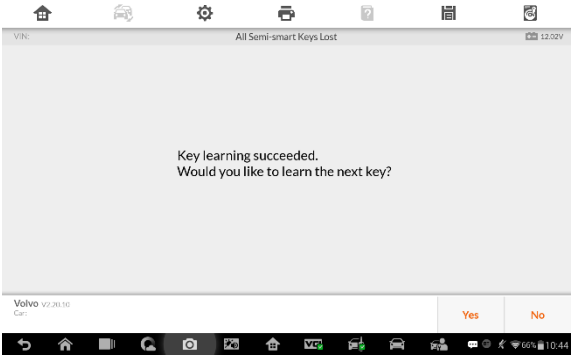

Figure 21 ***Sample All Semi-smart Keys Lost Screen 12***

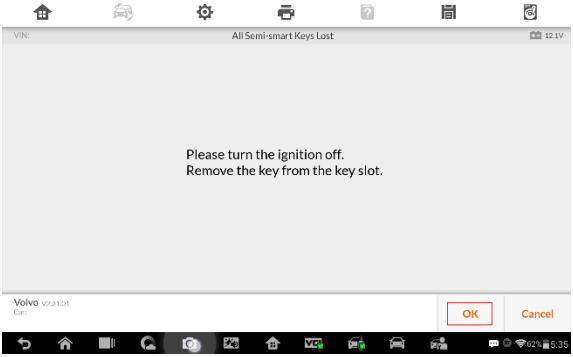

Figure 22 ***Sample All Semi-smart Keys Lost Screen 13***

16. Check the information of the learned keys and tap **ESC** to exit.

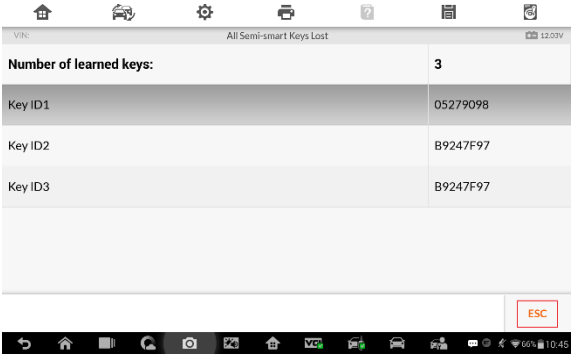

Figure 23 ***Sample All Semi-smart Keys Lost Screen 14***

All Semi-smart Keys Lost via System Selection

1. Turn on the IM600 tablet and tap **OtoSys** > **IMMO**. A vehicle menu displays and a disclaimer prompts up. Tap **Accept** to continue.

Figure 24 ***Sample Main Interface***

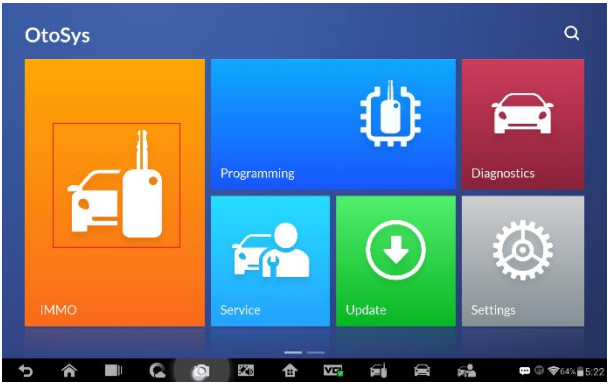

Figure 25 ***Sample OtoSys Job Menu***

2. Tap **Volvo** on the vehicle menu.

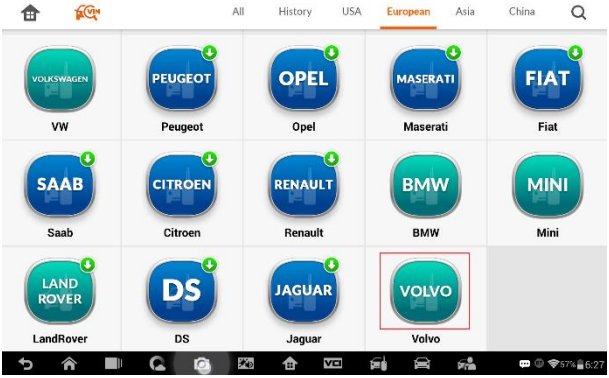

Figure 26 ***Sample Vehicle Menu***

3. Tap **System Selection** on the mode menu.

NOTE

You can click the icon near the top-right corner to record the operation data. If you encounter any difficulties, click the icon again to send us the data and the problem, so that our engineers could help. The network should be connected when uploading the data.

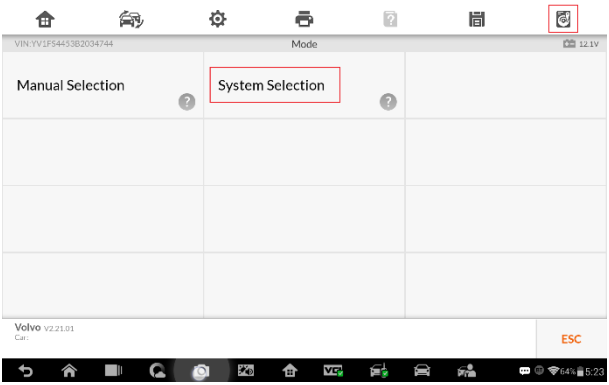

Figure 27 ***Sample Mode Menu***

4. Tap **Semi-smart Key System (CAN)** on the system menu.

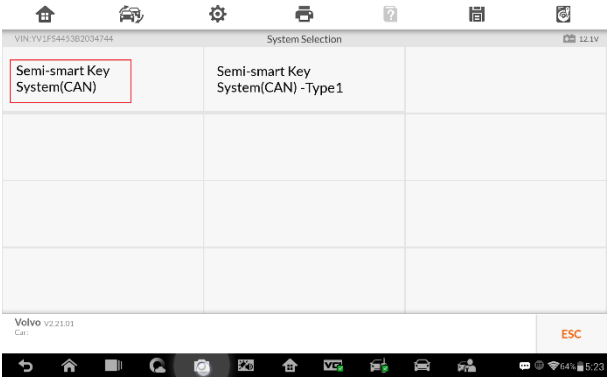

Figure 28 ***Sample System Menu***

5. For better communication, please make sure the IM600 tablet and the OtoFlash are connected via USB cable. Then tap **OK** to continue.

NOTE

Please turn off Bluetooth before connecting the USB cable.

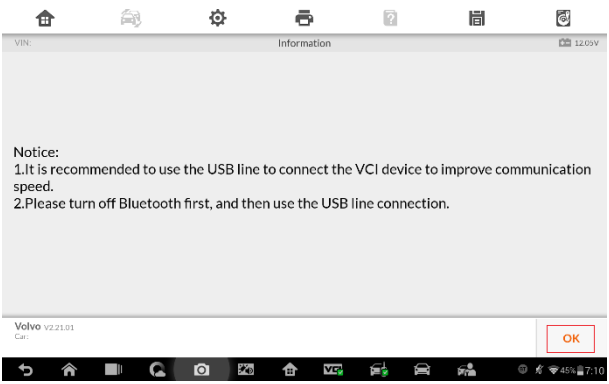

Figure 29 ***Sample Information Screen***

6. Tap **All Semi-smart Keys Lost** on the function menu.

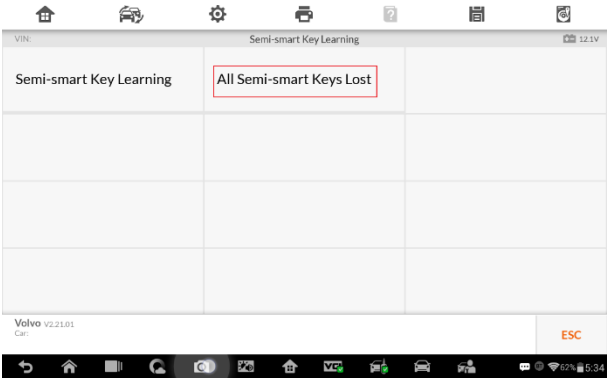

Figure 30 ***Sample Function Menu***

7. Follow the onscreen instruction to press START button and tap **OK** to continue.

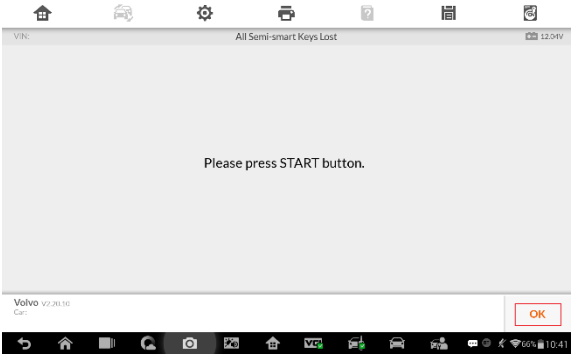

Figure 31 ***Sample All Semi-smart Keys Lost Screen 1***

8. To perform the All Semi-smart Keys Lost function, there must be at least one key. If an original key is cleared, it needs to be learned again. Verify the type of the key and tap **Yes** to continue.

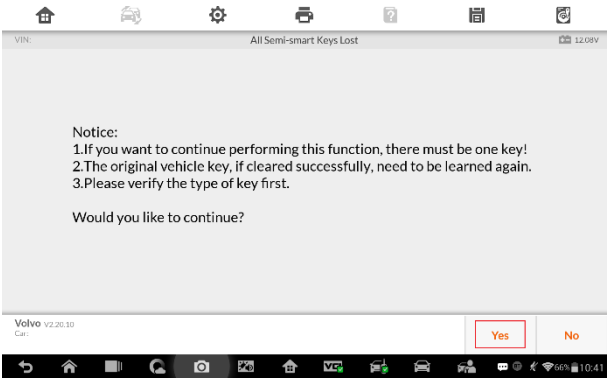

Figure 32 ***Sample All Semi-smart Keys Lost Screen 2***

9. Follow the onscreen instruction to turn the ignition off, and tap **OK** to continue.

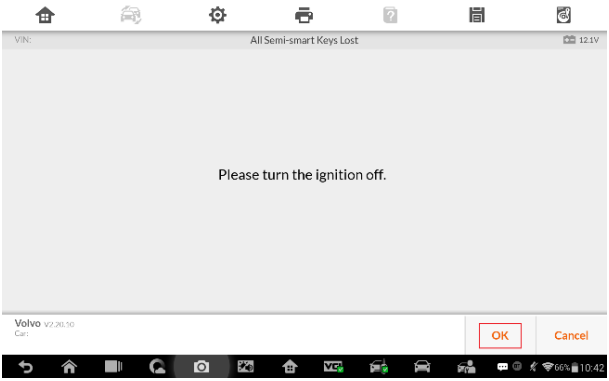

Figure 33 ***Sample All Semi-smart Keys Lost Screen 3***

10. Read the information of keys and tap **OK** to continue.

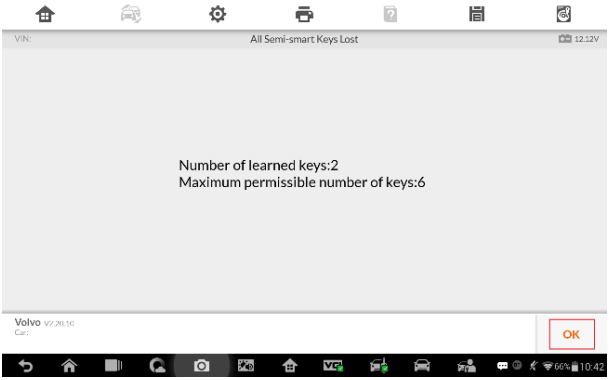

Figure 34 ***Sample All Semi-smart Keys Lost Screen 4***

11. Read the information about the decryption of the immobilizer unit, tap **OK** to start the decryption and wait until the process is completed.

NOTE

The decryption may last 0-8 hours. Tap **ESC** if you want to stop this operation, and you can continue the process from the interrupted point next time.

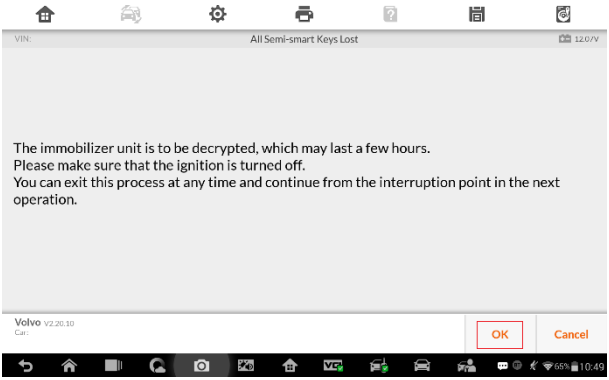

Figure 35 ***Sample All Semi-smart Keys Lost Screen 5***

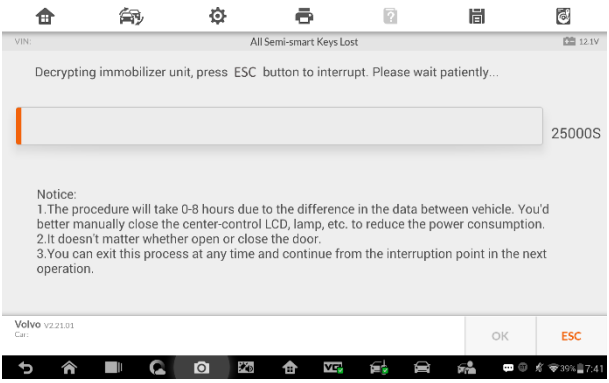

Figure 36 ***Sample All Semi-smart Keys Lost Screen 6***

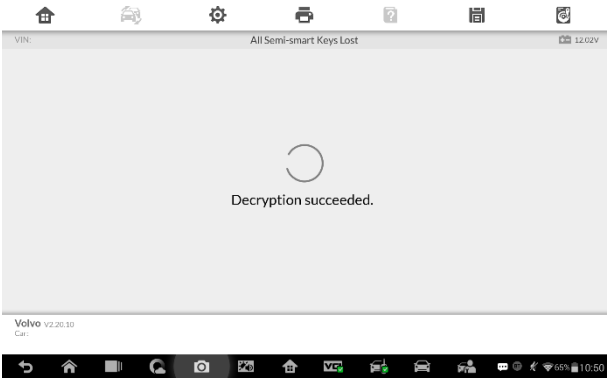

Figure 37 ***Sample All Semi-smart Keys Lost Screen 7***

12. Then the IM600 tablet starts to read the security data. When the security data is copied successfully, tap **OK** to continue.

NOTE

Do not disconnect the OBD connection during the process.

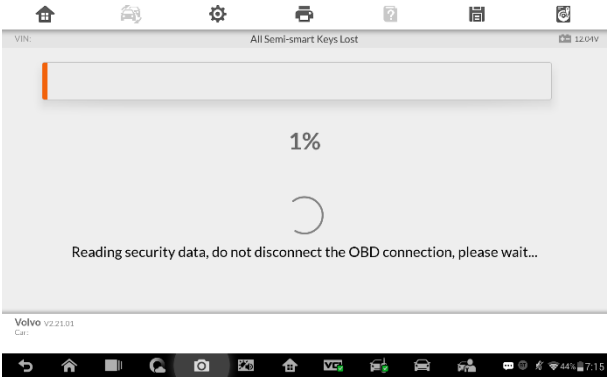

Figure 38 ***Sample All Semi-smart Keys Lost Screen 8***

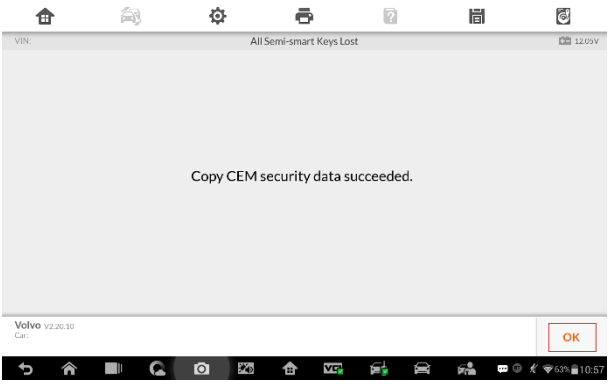

Figure 39 ***Sample All Semi-smart Keys Lost Screen 9***

13. Then all keys are cleared and a message prompts up. Tap **OK** to continue.

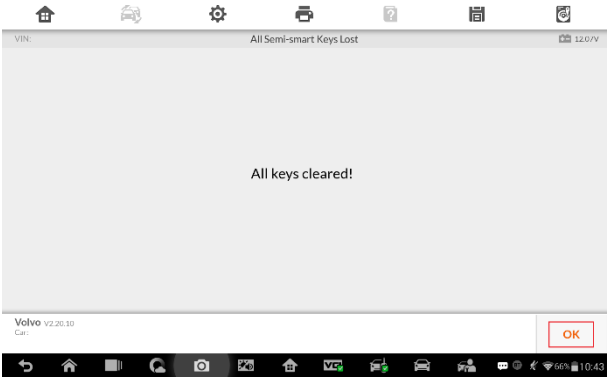

Figure 40 ***Sample All Semi-smart Keys Lost Screen 10***

14. When Key Learning starts, insert the key to be learned into the key slot and tap **Learning** to continue.

NOTE

If the key pops out, tap **Learning** first and then insert the key promptly.

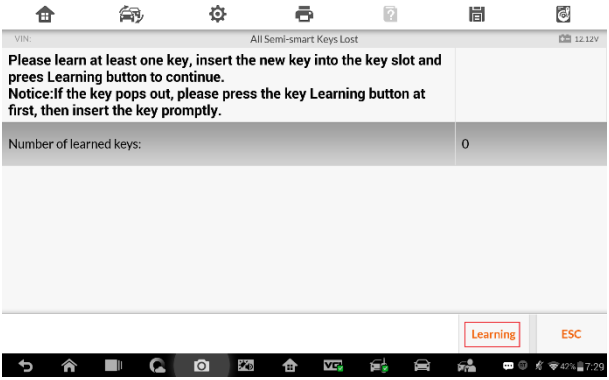

Figure 41 Sample All Semi-smart Keys Lost Screen 11

15. When the key is learned successfully, tap **Yes** to repeat step 14 and learn the next key or tap **No** to complete Key Learning.

NOTE

Please turn the ignition off and remove the learned key from the key slot before you start to learn the next key. Tap **OK** to continue.

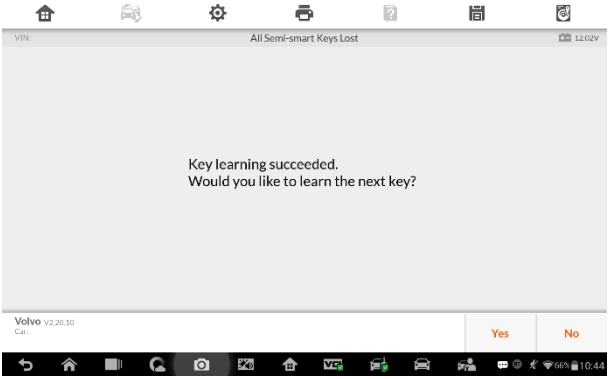

Figure 42 ***Sample All Semi-smart Keys Lost Screen 12***

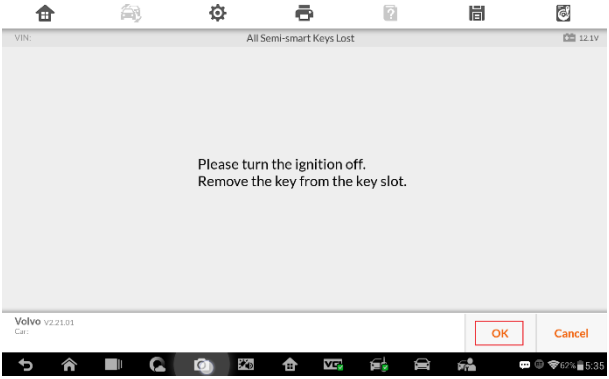

Figure 43 ***Sample All Semi-smart Keys Lost Screen 13***

16. Check the information of the learned keys and tap **ESC** to exit.

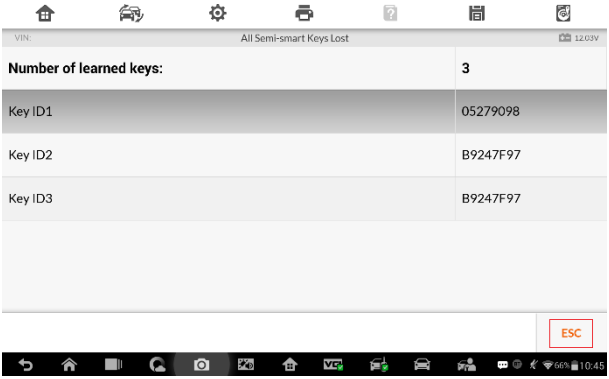

Figure 44 ***Sample All Semi-smart Keys Lost Screen 14***