Volvo Anti-theft Operation Guidelines-Type 1

List of applicable models

The anti-theft process of the following models is basically the same, but different vehicles need to read vehicle module data in different ways, which can be divided into the following three categories (each color represents one) :

Brand	Model	Year	Key type	
VOLVO	S60	2010-2018	Smart Key/Half-Smart Key	
VOLVO	S60 Cross Country	2016-2018	Smart Key/Half-Smart Key	
VOLVO	S60L	2014-2018	Smart Key/Half-Smart Key	
VOLVO	S80	2010-2016	Smart Key/Half-Smart Key	
VOLVO	S80L	2010-2015	Smart Key/Half-Smart Key	
VOLVO	V60	2011-2018	Smart Key/Half-Smart Key	
VOLVO	V60 Cross Country	2015-2018	Smart Key/Half-Smart Key	
VOLVO	V70	2009-2016	Smart Key/Half-Smart Key	
VOLVO	XC60	2010-2018	Smart Key/Half-Smart Key	
VOLVO	XC70	2011-2016	Smart Key/Half-Smart Key	
VOLVO	S80	2007-2009	Smart Key/Half-Smart Key	
VOLVO	S80L	2008-2009	Smart Key/Half-Smart Key	
VOLVO	XC60	2006-2009	Smart Key/Half-Smart Key	
VOLVO	XC70	2008-2010	Smart Key/Half-Smart Key	
VOLVO	V40	2012-2018	Smart Key/Half-Smart Key	
VOLVO	V40 Cross Country	2013-2018	Smart Key/Half-Smart Key	

Anti-theft conditions and requirements

1. Launch IMMO PRO/IMMO PAD (professional version).

2. As for the compliance smart keys/semi-smart keys used for anti-theft matching, it is recommended to use the original factory key, because some secondary factory keys may have no intelligence after matching.

3. The difference between the semi-smart key and the smart key is that the matching process of the smart key contains KVM data disassembling & reading and data decryption steps. Other matching processes are basically the same as those of the smart key.

Anti-theft operation process

This operation process demonstration takes Volvo 2016 XC60 smart key as an example.

1. Vehicle series entry

Select [Volvo] -> [Automatic scan] -> [XC60] -> [2010-2018] -> [Smart key] (See Figure 1, Figure 2, Figure 3, Figure 4, Figure 5, Figure 6 and Figure 7 for the process steps)

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Vehicle Version Information	A 🖶 🗗
Software ID	Version #
VOLVO	V10.01

Volvo Anti-theft Diagnostic Software V10.01

Software Introduction

Software Summary

The Software Supports The Functions Such As Anti-theft Adaptation, Key Unlock, And Module Reading and Cloning For VOLVO Series.

Function Coverage Summary

- Anti-theft Adaptation
 - Smart/Semi-Smart/Toothless knob keys added, Smart/Semi-Smart/Toothless knob Keys All Lost, Smart/Semi-Smart/Toothless knob key deleted.
- Key Unlock

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Figure 1

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Volvo					
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Figure 3

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Figure 5

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Operation Guide	Smart keys added
Smart keys all lost	Smart key deleted
Read CEM security data (disassembling and reading)	Read KVM security data (disassembling and reading)
Module identification	Key recognition and unlock
KVM cloning	
Volvo	
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Figure 7

2. [Operation Guide]

Check the basic steps and precautions of the anti-theft matching process. (See Figure 8, Figure 9, Figure 10, and Figure 11 for the process steps)

1) Select the [Operation Guide] function to view the operation guide document.

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Smart keys all lost	Smart key deleted				
Read CEM security data (disassembling and reading)	Read KVM security data (disassembling and reading)				
Module identification	Key recognition and unlock				
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Figure 8					

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Volvo Anti-theft Operation	Guid	lelir	ies	

Basic Information

- Key type: Smart key
- Chip type: 46 chip
- Key frequency: 433
- Key Batch No. 38
- Can the chip be copied: No
- OBD position: Lower left position of main cab
- Key picture:



Figure 9

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Operation Guide

VOLVO V10.01 > XC60 > 2010-2018 > Smart key

Anti-theft Execution Process

- This process is a general process of matching smart 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 and KVM 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 KVM Security Data (disassembling and reading)] and [Read CEM Security Data (disassembling and reading)].
- 3 .Install the original CEM and KVM module back into the vehicle and then perform [Module Identification] function to check if the modules are installed correctly.
- 4 .Perform [Smart Key Added] or [Smart Keys All Lost] function, it will prompt to load the related data read in step 2 during the function, please follow the steps.

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Precautions

- Please try to use original key to match, it may present that the matched key is not a smart one after using a replaced key with successful matching.
- Without exiting the sub-function menu, there is no need to reload the Anti-theft data to continue to perform the function for multiple times after the same vehicle has completed data decryption for one time. Please re-enter the menu after exiting if needs to reload data.
- After key matching succeeded, the key cannot be removed normally when prompts to remove the key, please do not remove the key forcedly, try to start the vehicle and then shut down, after that try to remove the key again.
- In the process of [Smart Key Added] and [Smart Keys All Lost], only needs to place the smart key to be matched in the vehicle, take other smart keys out of the vehicle, otherwise it may cause the new added key is not a smart one and other problems.
- There is a risk of damage to the module due to module removal and wire bonding, please

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3. [Read KVM security data (disassembling and

reading)]

After reading the operation document of the function of [Operation Guide], the MCU Cable V1 harness of the G3 programmer should be used to connect the disassembled vehicle module, and then the MCU V2 adapter should be used to connect the G3

programmer to the vehicle module. Finally, the function [Read KVM security data (disassembling and reading)] should be selected to read the anti-theft data of the vehicle module. (The module location and connection method are detailed in the [Operation Guide], which will not be detailed in this document. The procedure is as follows.)

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Operation Guide	ē 🗜
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MCU Cable V1 MCU V2 GIII	
Volvo	OK

1) The connection diagram is as follows:

Figure 12

2) Select [Read KVM security data (disassembling and reading)] function

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Operation Guide	Smart keys added				
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Read CEM security data (disassembling and reading)	Read KVM security data (disassembling and reading)				
Module identification	Key recognition and unlock				
KVM cloning					
Volvo					
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Figure 13

3) Prompt to view the [Operation Guide] function and click [YES]

to proceed to the next step.

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Smart keys all lost	Please perform [Operation gudetailed operation procedure					
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	NO	YES				
Module identification		Key recognition an				
KVM cloning						
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Figure 14

4) Connect G3 programmer. Connect anti-theft device, programmer and vehicle module according to [Operation guide]. Click [Yes] to proceed to the next step.

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Read CEM security data	data.	na save venicie immobil	Izer	assemb	oling and	reading)	
Module identification	NO	YES					
KVM cloning							
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Figure 15

 5) It is indicated that anti-theft data is being read. The reading time is about 1 minute, during which no operation is required.
Do not move the device to avoid data reading failure.

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Read CEIM security data						assembling and reading)			
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Module identification			кеу гесо	gnition and	ипіоск				
KVM cloning									
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Figure 16

6) After the anti-theft data is read successfully, it is prompted that the data is read successfully and the data is saved. After the successful saving, the function execution is completed.

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would identification		Rey recognition and	a uniock			
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Volvo						
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Figure 17

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Operation Guide			Smart key	vs added			
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Figure 18

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	CANCEL	OK			gunareau	ing)
Module identification	CANCEL	Key recognition and	uniock			
KVM cloning						
Volvo						
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Figure 20

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

By reading the operation document of the function of [Operation Guidance], the MCU Cable V1 harness of G3 programmer should be used to connect the disassembled vehicle module, and then the MCU V2 adapter should be used to

connect the G3 programmer to the vehicle module. Finally, the function [Read CEM security data (disassembling and reading)] should be selected to read the anti-theft data of the vehicle module. (The module location and cable connection are detailed in the [Operation Guide]. This document will not describe this part in detail. The procedure is as follows)



1) The connection diagram is as follows:

Figure 21

2) Select [Read CEM security data (disassembling and reading)] function

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	Q Please enter keyword
Operation Guide	Smart keys added
Smart keys all lost	Smart key deleted
Read CEM security data (disassembling and reading)	Read KVM security data (disassembling and reading)
Module identification	Key recognition and unlock
KVM cloning	
Volvo	



3) Prompt to view [Operation guide] function, click [YES] to proceed to the next step.

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Smart keys all lost	Please perform [Operation g detailed operation procedure	uide] function first to view t es.	the	
	Click [YES] to continue, click	[NU] to exit.		
Read CEM security data			assembling and rea	ding)
	NO	YES		
Module identification		Key recognition and u	THUCK	
KVM cloning				
Volvo				
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Figure 23

4) Connect G3 programmer, connect anti-theft device, programmer and vehicle module according to [Operation Guide], and click [YES] to go to the next step.

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VOLVO V10.01 > XC60 > 201	0-2018 > Smart key				🖽 11.93V
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Operation Guide		0			
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Smart keys all lost	G3 Immobilizer progra please remove the veh [Operation Guidance],	Immer is needed fo nicle CEM module a and connect it cor	or this function, as per the rectly as per the		
Read CEM security data	[Operation Guidance], data.	read and save veh	icle immobilizer	assem	bling and reading)
Module identification	NO		YES		
KVM cloning					
Volvo					
			P	€)	

Figure 24

5) It is suggested that anti-theft data is being read, and the reading time is about 1-2 minutes. During this period, no operation is required. Do not move the device to avoid data reading failure.

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Module identification			кеу гесо	gnition and	uniock				
KVM cloning									
Volvo									
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Figure 25

6) After the anti-theft data is read successfully, it is prompted that the data is read successfully and the data is saved. After the successful saving, the function execution is completed.

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VOLVO V10.01 > XC60 > 2010	-2018 > Smart key		🖽 11.91V
			Q Please enter keyword
Operation Guide		Smart keys added	
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Smart keys all lost	Data read successfully, plea	se press [OK] to save data	
Read CEM security data (assembling and reading)
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Module identification		itey recognition and u	HIUCK
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Volvo			
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Figure 26

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Figure 27

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Operation Guide		Smart kevs added				
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Smart keys all lost	Please input the saved file n letters,numbers and underso	ame(enter only cores):				
Read CEM security data	XC60_CEM_IMMODATA			assemblii	ng and re	ading)
,	CANCEL	ок			, 	
Module identification		Key recognition and	инюск			
KVM cloning						
Volvo						
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Figure 28



Figure 29

5. [Smart keys added]

The [Smart keys added] function is used to add keys to the vehicle without deleting the original car keys. The [Smart keys all lost] function is used to add keys to the vehicle after deleting all the original car keys. After deleting the original car keys, the original car keys need to be re-matched before they can be used again. The

[Smart key deleted] function is used to delete all the original car keys. Please select a function based on actual requirements. This document takes [Smart keys added] as an example:

 Select [Smart keys added] function, it's prompted to view the [Operation guide] function and click [YES] to perform the next step.

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					Q	Please ente	r keyword
Operation Guide		Sma	art keys added				
		Prompt					
Smart keys all lost	Please perform [Ope detailed operation p	eration guide] fur procedures.	nction first to vie	ew the			
	CIICK [YES] to contir	iue, click [NU] to	exit.				
Read CEM security data					assemb	ling and re	ading)
	NO		YES				
Module identification		Rey	recognition an				
KVM cloning							
Volvo							
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Figure 30

2) After completing the action 'Press the START button', click [OK] to perform the next step.

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	CANCEL	ок			
Module identification		Key recognition and u	IIIIOCK		
KVM cloning					
Volvo					
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Figure 31

3) It's prompted to load CEM security data, click [OK] to load the anti-theft data.

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Show Menu				P
VOLVO V10.01 > Anti-Theft Ke	ey Matching > XC60 > 2010-2018	3 > Smart key	÷-	11.98V
			Q Please enter	r keyword
Operation Guide		Smart keys added		
	Pro	ompt		
Smart keys all lost	Click [OK] to load the CEM so when CEM security data was	ecurity data of this vehicle s read successfully.	e	
Read CEM security data			assembling and re	ading)
Module identification	CANCEL	OK		
KVM cloning				
Volvo				
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Figure 32

4) Select the read data file, here we select file XC60_CEM_IMMODATA.bin.

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File operation			f	\bigcirc	-	₽
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Backup File Name						
XC90_2020_CEM_IMMODA	ATA.bin					
Launch_SmartKey_Prtl_L00	002_CEM_SPC5748G_IMMOD	ATA.bin				
XC60_CEM_IMMODATA.bir	1					
XC90_2020_CEM_IMMODA	NT.bin					
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Backup File Name						
XC90_2020_CEM_IMMOD/	Inforn	nation				
Launch_SmartKey_Prtl_L0	Selected File Is:XC60_CEM_II	MMODATA.bin				
XC60_CEM_IMMODATA.bi						
XC90_2020_CEM_IMMOD	NO	YES				
.bin						
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Volvo						
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Figure 34

5) It's prompted to load KVM security data, click [OK] to load the anti-theft data.

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VOLVO V10.01 > Anti-Theft Ke	ey Matching > XC60 > 2010-:	2018 > Smart key			🗄 11.98V
Backup File Name					
XC90_2020_CEM_IMMOE		Prompt			
Launch_SmartKey_Prtl_L	Click [OK] to load the KV	'M security data of t	his vehicle		
	when KVM security data	was read successfu	ully.		
XC90_2020_CEM_IMMOE	CANCEL		ок		
.bin					
		Exit			
Volvo					

Figure 35

6) Select the read data file, here we select file XC60_KVM_IMMODATA.bin.



Figure 36

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File operation			f	2	ē
VOLVO V10.01 > Anti-Theft Key	v Matching > XC60 > 2010-2018	> Smart key			🗄 11.98V
Backup File Name					
1_CEM-TYPE1_R32C_R5F64	4524KFD_E2 DATA_Src.bin				
eee.bin	Inforr	nation			
Launch_HalfSmartKey_Prt	Selected File Is:XC60_KVM_I	MMODATA.bin			
XC60_KVM_IMMODATA.bi					
Launch_SmartKey_Prtl_L0	NO	YES			
		xit			
Volvo					
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Figure 37

7) Confirm the key is correct and then click [YES] to perform the next step.

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Show Menu				f		ē	ŀ		
VOLVO V10.01 > Anti-Theft K	ey Matching > XC60 > 2	2010-2018 > Sma	nrt key			÷	12.07V		
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Operation Guide		Sm	art keys added						
		Prompt							
Smart keys all lost	This function is ap confirm the key typ	This function is applied to full-smart key matching, please confirm the key type before matching !							
Read CEM security data	CIICK [YES] to conti	nue, click [NU] to) exit.		assembling	and rea	adina)		
Read CEW Security data					2336111011110	g and red	aunig)		
	NO		YES						
Module identification		Rej	recognition ai						
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Figure 38

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Show Menu			f			P	
VOLVO V10.01 > Anti-Theft Ke	y Matching > XC60 > 2010-2018	> Smart key				12.07V	
				Q			
Operation Guide		Smart keys added					
	Pro	ompt					
Smart keys all lost	Please turn off the ignition s	switch.					
Read CEM security data (assembli	ng and re	adina)	
				assembling and reading)			
	CANCEL	ОК					
Module identification		Rey recognition and	UNIOCK				
V///A classing							
K VIVI CIONING							
Volvo							
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	Figu	re 39					

8) Turn off the ignition switch and click [OK] to perform the next step.

9) Confirm the number of keys and then click [OK] to perform the next step.

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Show Menu			f			₽
VOLVO V10.01 > Anti-Theft Key	/ Matching > XC60 > 2010-2018	> Smart key			(+ -] 12.07V
				Q		r keyword
Operation Guide Smart keys added						
	Prompt					
Smart keys all lost	Number of matched keys: 2 Maximum number of keys al	lowed: 8				
Read CEM security data (e				assembl	ing and re	ading)
	C	РК				
Module identification		Ney recognition and	uniock			
KVM cloning						
Volvo						
	ŵ C 3		Ð			

Figure 40

10) Insert the key into the card slot according to the prompts, select subsequent operations according to whether the key will be ejected. Click [CANCEL] to perform the next step when the key is ejected, click [OK] to perform the next step when the key is not ejected (generally ejected key is a rare case).

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Show Menu		A					
VOLVO V10.01 > Anti-Theft K	ey Matching > XC60 > 2010-201	8 > Smart key	🗄 12.07V				
			Q Please enter keyword				
Operation Guide	Pr	ompt					
Smart keys all lost	Please insert the smart key slot and take other keys out Note: Press [OK] to proceed when	to be matched into the card of the vehicle. the inserted key is not ejected.					
Read CEM security data	Press [CANCEL] to proceed ejected.	when the inserted key is	assembling and reading)				
Module identification	CANCEL	ок					
KVM cloning							
Volvo							
)				

Figure 41

11) According to the prompts, click [OK] to complete the matching.

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VOLVO V10.01 > Anti-Theft Ke	y Matching > XC60 > 2010	0-2018 > Smart key				12.07V
				Q	Please enter	keyword
Operation Guide		Smart keys ad	lded			
		Prompt				
Smart keys all lost	START function matc	hing completed.				
Read CEM security data (assembli	ing and rea	ading)
Module identification		OK Key recognitio	n and unlock			
KVM cloning						
Volvo						
			€			

Figure 42

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Show Menu			f	2	ē	₽
VOLVO V10.01 > Anti-Theft Key	y Matching > XC60 > 2010-201	8 > Smart key			Ē	12.07V
				Q		er keyword
Operation Guide		0				
oporation outdo	Pr	ompt				
Smart keys all lost	Number of matched keys: 3 Key ID1:31323334 Key ID2:35363738	3				
Read CEM security data (Key ID3:39404142		_	assembl	ing and re	eading)
Module identification		ок				
KVM cloning						
Volvo						
			Ð			

Figure 43

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Show Menu			A	2		ŀ		
VOLVO V10.01 > Anti-Theft K	ey Matching > XC60 > 2010-20	18 > Smart key				12.10V		
				Q	Please enter	keyword		
Operation Guide		Smart keys added						
		rompt						
Smart keys all lost	Switch ignition ON and the Remove the smart key fron button. (If the vehicle has r	n switch OFF. n the card slot, press UNI no response, press the UN	LOCK NLOCK					
	button for several times)							
Read CEM security data				assembling and reading)				
		ОК						
Module identification		Key recognition an						
KVM cloning								
i ti i i i i i i i i i i i i i i i i i								
Volvo								
			Ð					

Figure 44



Figure 45

Statement:

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