Porsche Immobilizer Manual

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1. Introduction to Porsche Immobilizer

Support the functions of adding keys, losing all keys, replacing engine computer, cloning engine computer, dismantling and reading front-end/back-end electronic modules for Porsche models.

The Porsche immobilizer system was updated around 2010.

The immobilizer system of Cayenne before 2010 includes KESSY module, Bosch ME7.x engine computer, and Hitag2 chip key. The immobilizer software supports key adding and engine computer replacement functions. To match keys, dealer keys must be generated first.

The immobilizer system of Cayenne after 2011 includes front-end and back-end electronic modules, Siemens engine computer, and HitagPro chip key. The immobilizer software supports front-end/back-end electronic module cloning, partial engine computer cloning, key adding, and all keys lost. Before matching keys, you need to dismantle and read the front-end electronic module and then generate the dealer keys.

2. Porsche Cayenne (955) Key Adding

2.1 Model Coverage

			Key	All Keys
Model	Year	Chassis	Adding	Lost
Cayenne	2006-2010	955	Supported	Not supported

2.2 Requirements

Scheme 1: Launch PAD series comprehensive diagnostic equipment + X-431 GIII immobilizer programmer

Scheme 2: Launch X-431 PRO immobilizer matching tool (expert edition) + X-431 GIII immobilizer programmer

2.3 Procedure

The following is about 2010 Cayenne matching keys.

1. Access the Porsche immobilizer software. The main function menus are shown in Figure 2.

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Show Menu	
PORSCHE V10.03 >	
	Q Please enter keyword
Immobilizer Key Matching	
Immobilizer Replacement	
Engine Control Unit Replacement	

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Figure 2 Main function menus

2. Choose [Immobilizer Key Matching] > [Cayenne] > [2006-2010]. The current menu is shown in Figure 3.

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Show Menu	
PORSCHE V10.03 > Immobilizer Key Matching > Cayenne > 200	06-2010
	Q Please enter keyword
Read immobilizer data	Obtain the 7th byte of CS code from the original car key
Generate dealer keys	Learn keys

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Figure 3 Submenus

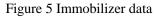
3. Choose [Read immobilizer data], and follow the prompt in Figure 4 to "turn on the ignition switch" to start reading immobilizer data.

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Show Menu		1					
PORSCHE V10.03 > Immobiliz	er Key Matching > Cayenne > 200	06-2010					
			Q Please enter keyword				
Read immobilizer data		Obtain the 7th byte of C	Obtain the 7th byte of CS code from the original car				
Generate dealer keys	Turn on the ignition switch a						
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Figure 4 Prompt

4. It takes about 5 minutes to read the immobilizer data successfully. The immobilizer data is shown in Figure 5.

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Immobilizer data	
PORSCHE V10.03 > Immobilizer Key Matching > C	ayenne > 2006-2010 > Read immobilizer data
Data type	Value
VIN code:	WP1AA29P4A
Password:	15142
CS code:	87 52 13 A6 79 4F
	ОК
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5. Choose the [Dealer Key] menu, and put a brand new key into the immobilizer programmer G3 according to the prompt in Figure 6.

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Input box		A	2	ē	F
	Input the 14-digit CS code				
Place t and clic	ne key to be generated into the programme sk OK	er G3,			
	ОК				
0 1 2	3 4 3 0		8		9
A B C	D E F	×			
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	Figure 6 Prompt				

6. It takes about 10 seconds for the dealer key to be generated successfully. If you need to add more keys, you need to repeat this function to generate all new keys into dealer keys.

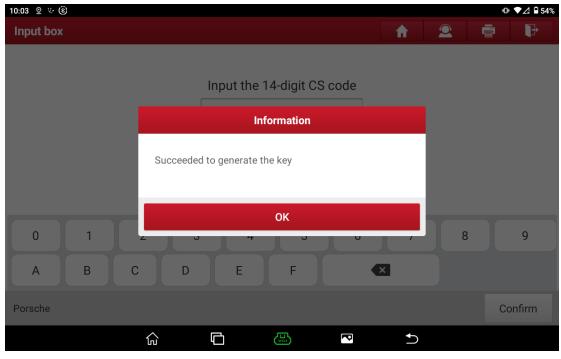


Figure 7 Dealer keys generated successfully

7. Choose [Learn keys]. As shown in Figure 8 and Figure 9, all keys will be re-matched, and the ignition switch needs to be turned on.

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Show Menu			A	ē P		
PORSCHE V10.03 > Immobil	lizer Key Matching > Cayenne > 20	06-2010				
			C			
Read immobilizer data		Obtain the 7th byte of CS code from the original car				
	Infor					
Generate dealer keys	All keys including the keys of re-matched Click OK to continue or Canc					
	CANCEL	ОК				
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Figure 8 Prompt

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Show Menu					f	2	ē	P
PORSCHE V10.03 > Immobiliz	zer Key Matchi	ing > Cayenne >	2006-2010					
						0	Please en	ter keyword
Read immobilizer data			Obtain the 7th byte of CS code from the original car					
Information								
Generate dealer keys	Turn on the ignition switch and click OK							
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Figure 9 Prompt

8. Input the number of keys to be matched to start key matching.

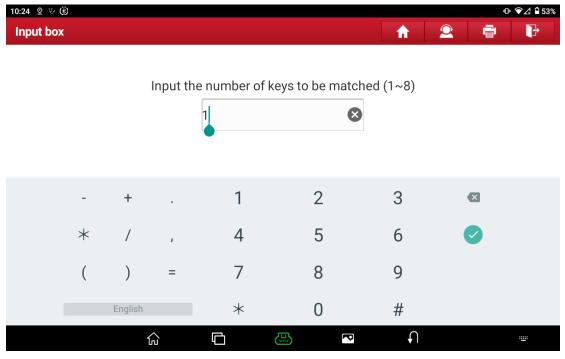
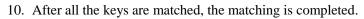


Figure 10 Input box

As shown in Figure 11, insert each key in turn, turn on the ignition switch, and wait for about 2 seconds. If the direction lock beeps, it indicates that the key is successfully matched. Then, insert the next key.

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Input box					f		P
		keys in turn, t	of keys to b Information turn on the ign OK				
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Figure 11 Prompt



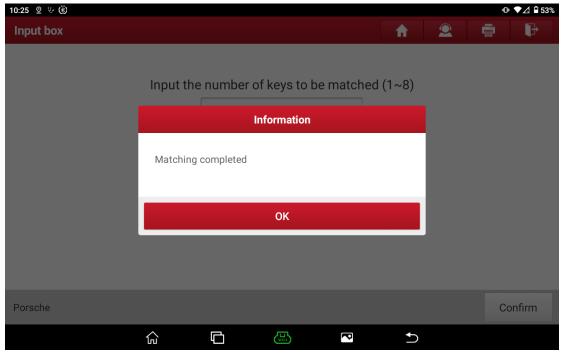


Figure 12 Matching completed

3 Porsche 2011-2017 Key Adding/All Keys Lost

3.1 Model Coverage

			Key	All Keys
Model	Year	Chassis	Adding	Lost
911	2013-2017	991	Supported	Supported
Boxster	2013-2017	981	Supported	Supported
Cayman	2013-2017	981	Supported	Supported
Cayenne	2011-2017	957	Supported	Supported
Macan	2014-	95B	Supported	Supported
Panamera	2010-2017	970	Supported	Supported

3.2 Requirements

Scheme 1: Launch PAD series comprehensive diagnostic equipment + X-431

GIII immobilizer programmer

Scheme 2: Launch X-431 PRO immobilizer matching tool (expert edition) + X-431 GIII immobilizer programmer

3.3 Procedure

The following is about 2013 Cayenne matching keys.

1. Dismantle the front-end electronic control module of the vehicle, which is located above the accelerator pedal.





2. Dismantle the front-end electronic control module, find the main control chip, and confirm the model. There are 4 types in total: 1L15Y, 1N35H, 2M25J, 5M48H



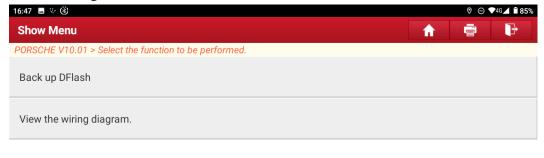
3. Access the Porsche immobilizer software to display the immobilizer main function menus, as shown in Figure 1-4.

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Show Menu	f	F.
PORSCHE V10.01 > PORSCHE		
Immobilizer Key Matching		
Immobilizer Module Replacement		
Immobilizer Password Reading		

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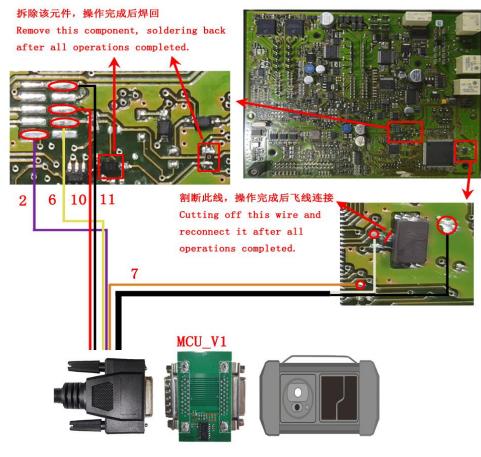
Figure 1-4 Immobilizer main function menus

4. Choose Immobilizer Password Reading > Cayenne > 2011-2017 > 5M48H. The current menu is shown in Figure 1-5.



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Figure 1-5 Immobilizer Password Reading sun-function menu



5. Choose [View the wiring diagram]. The wiring diagram is displayed, as shown in Figure 1-6.

Figure 1-6 Wiring diagram

6. Complete the wire soldering according to the wiring diagram. Click [Back up DFlash]. It will take about 15 seconds for the backup. After the backup is successful, the input box will pop up. Input the file name, as shown in Figure 1-7.

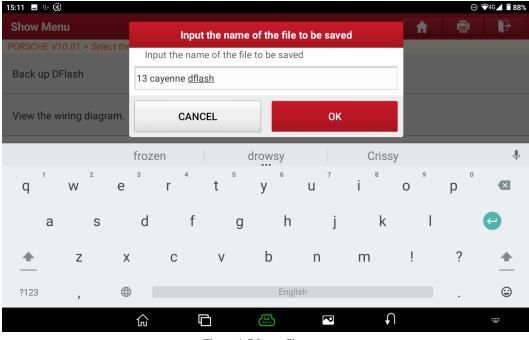


Figure 1-7 Input file name

7. The file is saved successfully, and the save path is displayed, as shown in Figure 1-8.

	🛋 System						Θ	74G 🖌 🗎 88%
Show Menu PORSCHE V10.01 > Selec	Screenshot save Tap to view your					î.		P
Back up DFlash	SHARE EDIT	DELETE	_	_				
View the wiring diagrar	n.		Information					
	/storage DIAGNO	Succeeded to save the file /storage/emulated/0/cnlaunch/X431Pro/988770001084/ DIAGNOSTIC/ImmoData/IMM_PORSCHE/13 cayenne dflash.bin						
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Figure 1-8 File save path

11. Return to the main menu of the immobilizer function and choose Immobilizer Key Matching > Cayenne > 2011-2017. The current menu is shown in Figure 2-1.

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Show Menu	f		P
PORSCHE V10.01 > 2011-2017			
Generate dealer keys			
Learn keys			

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Figure 2-1 Immobilizer Key Matching sub-function menu

12. Choose [Generate dealer keys]. A list of backed up immobilizer data files will pop up, as shown in Figure 2-2.

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Show Menu	
PORSCHE V10.01 > Select the corresponding data file	
13 Cayenne PFlash.bin	
13 Cayenne DFlash.bin	



Figure 2-2 Immobilizer data file list

13. Choose "13 cayenne dflash.bin" to load the immobilizer data. The following key information is displayed, as shown in Figure 2-3.

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Show Menu	A 🖶 🗗
PORSCHE V10.01 > Select the position of the key to be general	ted.
Key 0: ID 88293F22	Key 1: ID FD273F22
Key 2: ID FFFFFFF	Key 3: ID FFFFFFF
Key 4: ID FFFFFFF	Key 5: ID FFFFFFF
Key 6: ID FFFFFFF	Key 7: ID FFFFFFF

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Figure 2-3 Key information						

14. Select a blank key position (ID: FFFFFFF). The prompt "Please put the key to be generated into the immobilizer programmer G3, and then click [OK]" is displayed. Follow the prompt, as shown in Figure 2-3.



Figure 2-4 Put the key into the immobilizer programmer

- 15. Click [OK] and wait for about 10 seconds. The generation is successful.
- 16. Restore the front-end electronic control module, re-solder the soldered components, and connect the cut wires with fly lines. After closing the cover, put them back on the car. If the module is abnormal, the key will not be able to be pulled out when inserted into the ignition switch. Check the module circuit.
- 17. Choose [Learn Keys]. It will prompt "All keys will be relearned (including original car keys)". Click [OK]. It will prompt "Turn on double flash". Follow the prompts and click [OK].
- 18. Access the system. A list of backed up immobilizer data files is displayed, as shown in Figure 3-3

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Show Menu	f		ŀ
PORSCHE V10.01 > Select the corresponding data file			
13 Cayenne PFlash.bin			
13 Cayenne DFlash.bin			

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Figure 2.2 Immehilizer dete liet						

Figure 3-3 Immobilizer data list

19. Choose "13 Cayenne dflash.bin". In the input box that pops up, input the number of keys to be learned (input 2), as shown in Figure 3-4.

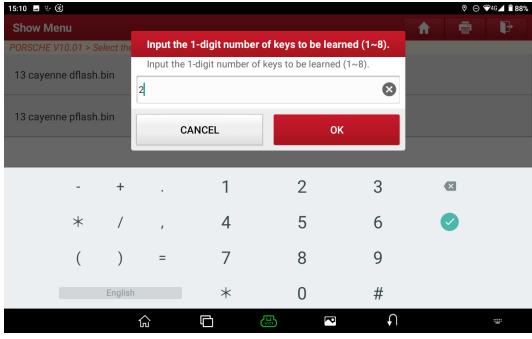


Figure 3-4 Input the number of keys to be learned

20. After you click [OK] for a few seconds, it will prompt "Insert the first key and turn on the ignition switch". At this time, the instrument panel does not light up, and "2-0" is displayed at the mileage, as shown in Figure 3-5.

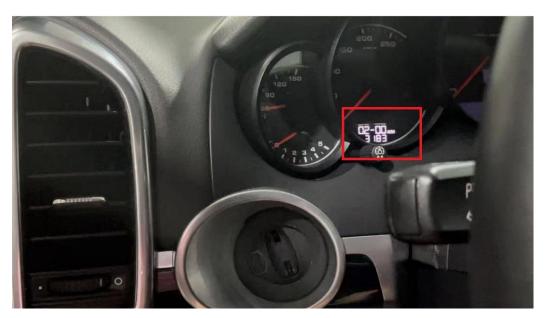


Figure 3-5 Black-screen instrument panel shows 2-0

 Insert the first key and then click [OK]. After a few seconds, the instrument panel lights up and "2-1" is displayed at the mileage. The first key is successfully learned, as shown in Figure 3-5.



Figure 3-6 Illuminated instrument panel shows 2-1

22. When it prompts "Insert the second key and turn on the ignition switch", insert the second key and then click [OK]. After a few seconds, the instrument panel lights up and "2-2" is displayed at the mileage. The second key is successfully learned, as shown in Figure 3-7.



Figure 3-7 Illuminated instrument panel shows 2-2

23. Start to configure the system. After about 10 seconds, the learning is completed, and the normal mileage is displayed on the instrument panel, as shown in Figure 3-8.



Figure 3-8 Normal instrument panel

4. Bosch ME7.x Engine Computer Replacement

4.1 Model Coverage

		Engine Computer
Model	Year	Replacement
Cayenne	2006-2021	Support Bosch ME7.x replacement
Cayenn e	2006-2010	Support Siemens SIMOS8.5 clone
Panamera	2009-2017	Support Siemens SDI6/SDI7/SDI8 clone

4.2 Requirements

Scheme 1: Launch PAD series comprehensive diagnostic equipment + X-431 GIII immobilizer programmer

Scheme 2: Launch X-431 PRO immobilizer matching tool (expert edition) +

X-431 GIII immobilizer programmer

4.3 Procedure

The following is about Bosch me7.X engine computer replacement.

1. Connect the X431 Pro and other tablet devices to the network, and access the Porsche immobilizer software. The main function menus are displayed, as shown in Figure 1.

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Show Menu	f	\bigcirc		₽
PORSCHE V10.03 >				
		0	QPlease ei	nter keyword
Immobilizer Key Matching				
Immobilizer Replacement				
Engine Control Unit Replacement				

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Figure 1 Main function menus

2. Choose [Engine Control Unit Replacement] > [Bosch ME7.x ECU Replacement]. The current menu is shown in Figure 2.

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Show Menu 🔒	<u> </u>
PORSCHE V10.03 > Engine Control Unit Replacement > Bosch ME7.x ECU replacement	
	Please enter keyword
Obtain engine computer data of the original car	
Obtain data of external engine computer	
Synchronize immobilizer data	

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		Fig	ure 2 Submo	enu		

3. Choose [Obtain engine computer data of the original car]. You can read the data through OBD or manual input, as shown in Figure 3.

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Show Menu 🏫 👱 🖶
PORSCHE V10.03 > Engine Control Unit Replacement > Boschreplacement > Obtain engine computer data of the original car
Q Please enter keyword
Read immobilizer data of engine computer
Obtain the 7th byte of CS code from the original car key
Manually input immobilizer data

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Figure 3 Obtain engine computer data of the original car

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Input box					f	\mathbf{Q}	-	₽
wp1aa29		0 5 2 3 2 Input the 9A 8D 16	a 14-digit CS 32 EC 4F FA the 17-digit V	Code		5)	×	
WP	1 A A	2 9 F	P 4 A					
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	Figur	e 4 Manual	lly input imm	obilizer	data			

4. Choose [Manually input immobilizer data], as shown in Figure 4.

5. After loading the external engine computer, choose [Obtain data of external engine computer] > [Read immobilizer data of engine computer], and turn on the ignition switch according to the prompt information.

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Show Menu					A	2	ē	P
PORSCHE V10.03 > Engine Col	ntrol Unit Repla	acement > Bos	chx ECU repl	acement > 0)btain data	a of exteri	nal engine	computer
						0		
Deed immedilines date of a								
Read immobilizer data of e	naine.combi							
		INI	ormation					
Manually input immobilize								
	Turn on the	e ignition swite	ch and click Ok	< C				
			ОК					
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Figure 5 Prompt information

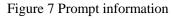
6. It takes about 10 seconds to read the immobilizer data successfully, as shown in Figure 6.

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ent > Boschengine computer > Read immobilizer data of engine computer
Value
WP1AA29P4A
15142
87 52 13 A6 79 4F
ОК

Figure 6 Immobilizer data of external engine computer

7. Choose [Synchronize immobilizer data] and turn on the ignition switch according to the prompt information.

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Show Menu					f	2	ē	₽
PORSCHE V10.03 > Engine Co	ontrol Unit Repla	cement > Bos	ch ME7.x ECU	replacement				
						Q	Please ent	er keyword
Obtain engine computer d	ata of the orig	inal car						
			ormation					
Obtain data of external en	Turn on the	ignition switc	h and click Ol	к				
Synchronize immobilizer o								
			ОК					
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8. The synchronization process takes a long time, up to 30 minutes. Please ensure that the vehicle has sufficient power.

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Show Menu					f	2	ē	₽
PORSCHE V10.03 > Engine C	ontrol U	nit Replacement >	Bosch ME7.x E	CU replacemen	t			
						C	Please er	nter keyword
Obtain engine computer o	lata of	the original car						
			Notes					
Obtain data of external e	C	System synchro	nizing, Please	wait8/2048				
Synchronize immobilizer								
			END SESSION					
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Figure 8 Synchronize immobilizer data

9. The synchronization is successful. Start the vehicle to verify the result.

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Show Menu	f			P				
PORSCHE V10.03 > Engine Cor	ntrol Unit Repla	acement > Bos	ch ME7.x ECU r	eplacement				
						Q		
Obtain engine computer da	ata of the orig	inal car						
			ormation					
Obtain data of external en								
	Synchroniz	ation succeed	ed					
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Figure 9 Synchronization successful

5. Siemens Engine Computer Clone

5.1 Model Coverage

Model	Year	Engine Computer Clone
Cayenn e	2011-2017	Support Siemens SIMOS8.5 clone
Panamera	2010-2017	Support Siemens SDI6/SDI7/SDI8 clone

5.2 Requirements

Scheme 1: Launch PAD series comprehensive diagnostic equipment + X-431 GIII immobilizer programmer

Scheme 2: Launch X-431 PRO immobilizer matching tool (expert edition) + X-431 GIII immobilizer programmer

5.3 Procedure

The following is about Siemens simos8.5 engine clone.

- 1. Remove the original car engine computer, which is located under the co-pilot wiper, and prepare a good external engine computer.
- Access the Porsche immobilizer software (need to connect the immobilizer programmer G3), and choose [Engine Control Unit Replacement] > [Clone Engine Compute] > [Continental SIMOS8.5]. The current menu is shown in Figure 1.



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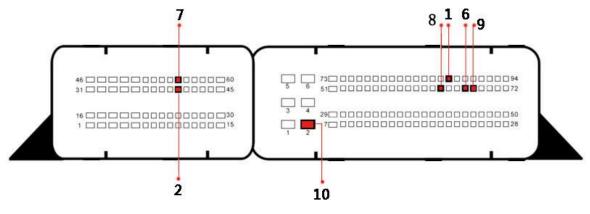
3. Choose [Obtain engine computer data of the original car]. The current menu is shown in Figure 2.

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Show Menu	
PORSCHE V10.02 > Engine Control Unit Replacement > Clone e	tal SIMOS8.5 > Obtain engine computer data of the original car
Connect	Disconnect
Back up Eeprom data	Back up Flash data
Obtain chip ID	Decrypt immobilizer data
View the wiring diagram	

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Figure 2

4. Choose [View Wiring Diagram], as shown in Figure 3. According to the wiring diagram, connect the original car engine computer and the immobilizer programmer G3 (in order to improve the communication speed and stability, use a USB cable to connect the Android device and the Bluetooth connector).





5. Choose [Connect] to enter the BENCH mode, as shown in Figure 4 and Figure 5.

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Show Menu						A		P
PORSCHE V10.02 > Engine C	ontrol Unit Repla	acement > Clor	ne etal SIMOS	8.5 > Obtain e	engine co	mputer d	ata of the	original car
Connect			Disconn	ect				
Back up Eeprom data		Int	formation					
Obtain chip ID	Downloadin	g the Boot pro	gram.Please w	ait				
View the wiring diagram			26%					
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Figure 4

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Show Menu			A ē P			
PORSCHE V10.02 > Engine Co	ontrol Unit Replacement > Clone	etal SIMOS8.5 > Obtain engine (computer data of the original car			
Connect		Disconnect				
Back up Eeprom data	Infor	Information				
Obtain chip ID	Connection succeeded					
View the wiring diagram	(ЭК				
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Figure 5

6. Choose [Back up Eeprom data], input the name of the file to be saved, and save the Eeprom data, as shown in Figure 6, Figure 7, and Figure 8.

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Connect			Disconn	ect			
Back up Eeprom data		Info	ormation				
Obtain chip ID	Reading.Pleas	e wait			_		
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Figure 6

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Show Menu		Input box		†	F
PORSCHE V10.02 > Engine	Input the name of	of the file to be saved	1	nputer data of th	e original car
Connect	Simos85 <u>eeprom</u>				
Back up Eeprom data	CANCEL		ОК		
	Weldon	seldom	DeLeo	n	Ŷ
q w e	з 4 с Г	t y	7 8 U İ	9 p	×
a s	d f	g h	j k	I	e
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Figure 7

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Show Menu			↑		
PORSCHE V10.02 > Engine C	ontrol Unit Replacement > Clone	etal SIMOS8.5 > Obtain engine co	omputer data of the original car		
Connect		Disconnect			
Back up Eeprom data	Infor	Information			
	Succeeded to save the file				
Obtain chip ID		/storage/emulated/0/cnlaunch/X431Pro/988770001319/ DIAGNOSTIC/ImmoData/IMM_PORSCHE/Simos85 eeprom.bin			
View the wiring diagram	(ж			
Porsche					

Figure 8

7. Choose [Back up Flash Data], input the name of the file to be saved, and save the Flash data, as shown in Figure 9, Figure 10, and Figure 11. The Flash data is large and takes a long time. Please wait patiently.

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Show Menu						A	Ē	P
PORSCHE V10.02 > Engine C	Control Unit F	Replacement > (Clone etal SIMC)S8.5 > Obta	in engine cor	nputer da	ata of the	original car
Connect			Discor	nect				
Back up Eeprom data			Information					
Obtain chip ID	Reading	.Please wait						
View the wiring diagram			37%					
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Show Menu	Input box		
PORSCHE V10.02 > Engine (Input the name of the file to be saved	d	nputer data of the original car
Connect	Simos85 <u>flash</u>		
Back up Eeprom data	CANCEL	ОК	
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Figure 10

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Figure 11

8. Choose [Decrypt immobilizer data] and load the backed-up data file, as shown in Figure 12 and Figure 13. The decryption result is shown in Figure 14.

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File list					f		ŀ
PORSCHE V10.02 > Engine Co	ntrol Unit Repla	cement > Clor	ne ee compute	er data of the oi	riginal car > Decry	ypt immo	obilizer data
Select the Eeprom data file	to be decrypt	ted					
Simos85 flash.bin							
Simos85 eeprom.bin							
			ESC				
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Figure 12

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File list		ŀ
PORSCHE V10.02 > Engine Control Unit Replacement > Clone ee computer data of the original car > Decrypt	imm	obilizer data
Select the Flash data file to be decrypted		
Simos85 flash.bin		
Simos85 eeprom.bin		
ESC		
Porsche		



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Immobilizer data	
PORSCHE V10.02 > Engine Control Unit Replacem	ent > Clone ee computer data of the original car > Decrypt immobilizer data
Data type	Value
VIN:	WP0AA297XD
CS code:	04597F81274DDF112E1C7629D6738EAC
Power stage:	FF
Synchronous code:	5D9A27D0
	ОК
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Figure 14

9. After the engine computer data of the original car is obtained, return to the previous menu and choose [Clone data to external engine computer]. The current menu is shown in Figure 15.

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Show Menu	A 🖶 🕑
PORSCHE V10.02 > Engine Control Unit Replacement > Clone e	ontinental SIMOS8.5 > Clone data to external engine computer
Connect	Disconnect
Write Eeprom data	Write Flash data
Obtain chip ID	View the wiring diagram

Porsche				
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- 10. As shown in step 4 and step 5, connect the engine ECU according to the wiring diagram and execute the [Connect] function.
- 11. Execute [Write Eeprom data] and select the backed-up Eeprom data file, as shown in Figure 16, Figure 17, and Figure 18.

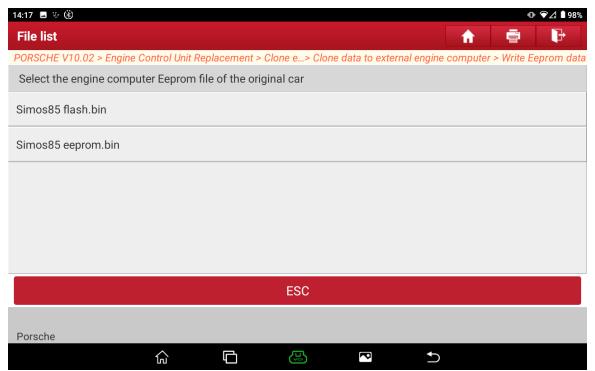


Figure 16

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File list						A	Ē	F
PORSCHE V10.02 > Engine (Control Unit	Replacement > 0	Clone e> Clone	e data to exter	nal engine c	omputer	> Write E	eprom data
Select the engine compu	ter Eeprom	n file of the orig	inal car					
Simos85 flash.bin								
Simos85 eeprom.bin			Information					
	Writing	Please wait.						
			32%					
			ESC					
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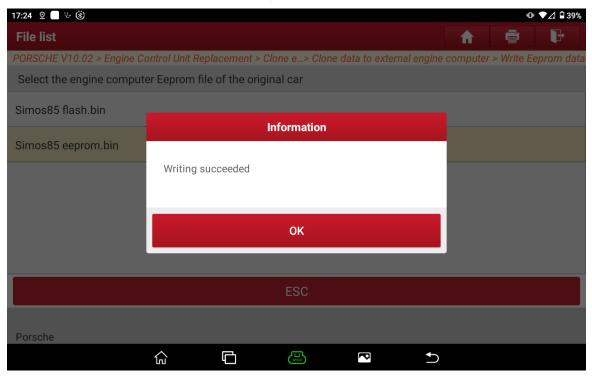


Figure 18

12. Execute [Write Flash data] and select the backed-up Flash data file, as shown in Figure 19, Figure 20, and Figure 21.

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File list					A		₽
PORSCHE V10.02 > Engine Cor	ntrol Unit Repla	icement > Cloi	ne e5 > Clone	data to externa	al engine compu	ter > Write	Flash data
Select the engine computer	r Flash file of	the original o	car				
Simos85 flash.bin							
Simos85 eeprom.bin							
			ESC				
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Figure 19

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File list							Ē	P
						f		
PORSCHE V10.02 > Engine (Control Unit Re	eplacement >	Clone e5 > Clo	ne data to exte	rnal engin	e comput	er > Write	Flash data
Select the engine compu	ter Flash file	of the origin	al car					
Simos85 flash.bin								
Simos85 eeprom.bin			Information					
	Writing.P	lease wait						
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			00%			ļ		
			ESC					
Porsche								
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Figure 20

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File list				f	ē	P
PORSCHE V10.02 > Engine Co	ntrol Unit Replacement >	Clone e5 > Clone	data to externa	engine comp	uter > Write	e Flash data
Select the engine compute	r Flash file of the origi	nal car				
Simos85 flash.bin						
		Information				
Simos85 eeprom.bin						
	Writing succeeded					
				_		
		ОК				
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		ESC				
Porsche						
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]	Figure 21				

13. After the operations are completed, load the external engine computer onto the car for testing.

6. Front-end Electronic Module Clone

6.1 Model Coverage

Front-end Electronic Module Clone Support 1L15Y 1N35H 2M25J 5M48H models

6.2 Requirements

Scheme 1: Launch PAD series comprehensive diagnostic equipment + X-431 GIII immobilizer programmer

Scheme 2: Launch X-431 PRO immobilizer matching tool (expert edition) + X-431 GIII immobilizer programmer

6.3 Procedure

The following is about Porsche 2011-2017 front-end electronic module clone (dismantling and reading).

- 1. Dismantle the front-end electronic module of the original car, which is located above the accelerator pedal. Open the cover to find the main control chip, determine the main control chip model (1L15Y/1N35H/2M25J/5M48H), and prepare a new module of the same model.
- 2. Access the Porsche immobilizer software (need to connect the immobilizer programmer G3), choose [Immobilizer Replacement] > [Clone front-end/back-end electronic module], and choose the corresponding chip model. The current menu is shown in Figure 1.

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Show Menu	↑ 2 ē ŀ
PORSCHE V10.03 > Immobilizer Replacement > Clone front-end	d electronic module > 2M25J
	Q Please enter keyword
Back up Eeprom data	Back up Flash data
Write Eeprom data	Write Flash data
Unlock chip	Lock chip
Rewrite partition	View the wiring diagram

Porsche				
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3. Choose [View the wiring diagram], as shown in Figure 2. Connect the front-end electronic module to the immobilizer programmer G3.

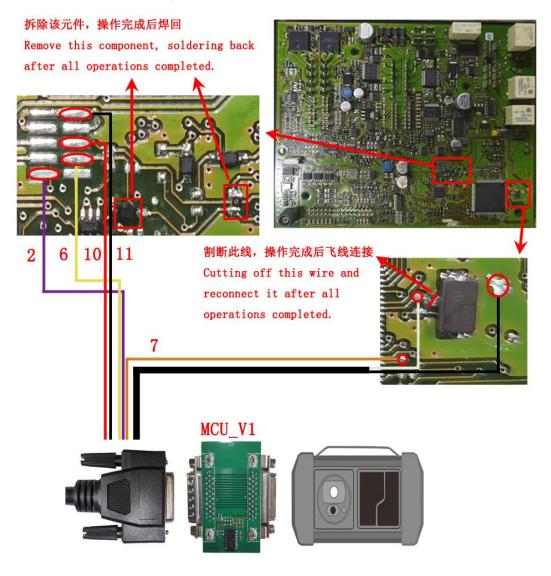


Figure 2

4. Choose [Back up Eeprom data], as shown in Figure 3.

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Show Menu					f		Ē	₽
PORSCHE V10.03 > Immobili	zer Replacer	nent > Clone fr	ont-end electro	onic module > .	2M25J			
						C		
Back up Eeprom data			Back	up Flash da	ta			
			Information					
Write Eeprom data								
	Reading,	Please wait						
Unlock chip	0.							
onlock chip			31%			ſ		
Rewrite partition			View	the wiring di	agram			
Porsche								
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Figure 3

5. After about 10 seconds, the EEPROM data backup is successful. Input the file name and save the EEPROM data file, as shown in Figure 4 and Figure 5.

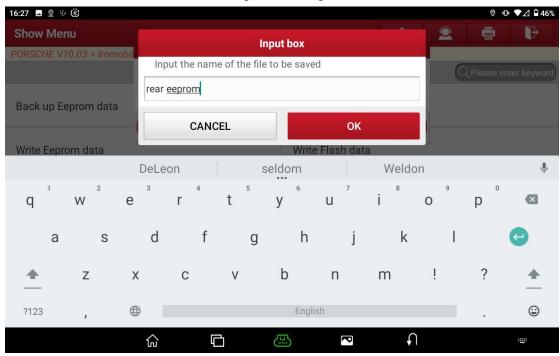
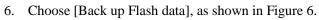


Figure 4

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Show Menu			f	2	ē	₽
PORSCHE V10.03 > Immobil	izer Replacement > Clone front-	end electronic modu	le > 2M25J			
				Q	Please ente	r keyword
Back up Eeprom data	Info	Back up Flash	data			
Write Eeprom data	Succeeded to save the file /storage/emulated/0/cnlau					
Unlock chip	DIAGNOSTIC/ImmoData/IN		eprom.bin			
Rewrite partition		OK	y ulayrann			
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Figure 5



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Show Menu					f	2	ē	P
PORSCHE V10.03 > Immobil	izer Replacer	nent > Clone fr	ont-end electr	onic module >	2M25J			
						C	Please e	nter keyword
Back up Eeprom data			Bac	k up Flash da	ta			
			Information					
Write Eeprom data								
	Reading.	Please wait						
Unlock chip								
			33%					
Rewrite partition			Viev	v the wiring d	iagram			
Porsche								
Porsche								
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Figure 6

7. The FLASH data is large. After about 3 minutes, the FALSH data backup is successful. Input the file name and save the FLASH data file, as shown in Figure 7 and Figure 8.

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Show Menu	Input box	
PORSCHE V10.03 > Immobil	Input the name of the file to be saved	rd
Dook up Coprom data	rear <u>flash</u>	
Back up Eeprom data	CANCEL OK	
Write Eeprom data	Write Flash data	
fl	lashback clash flashes 🌵	
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Figure 7

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Show Menu	^	2 ē F
PORSCHE V10.03 > Immobil	zer Replacement > Clone front-end electronic module > 2M25J	
		Q Please enter keyword
Back up Eeprom data	Back up Flash data	
Write Eeprom data	Succeeded to save the file /storage/emulated/0/cnlaunch/X431Pro/988770001319/ DIAGNOSTIC/ImmoData/IMM_PORSCHE/rear flash.bin	
Unlock chip		
	ок	
Rewrite partition	view the winny diagram	
Porsche		
		D

Figure 8

8. Follow the above steps to connect the new front-end electronic module and back up the EEPROM and FLASH data.

9. Choose [Unlock chip], as shown in Figure 9.

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Show Menu					ft -	2	Ē	₽
PORSCHE V10.03 > Immobili	zer Repla	acement > Clone front-er	nd electronic	module > 2M2	25J			
						Q		nter keyword
Back up Eeprom data			Back up	Flash data				
		N	otes					
Write Eeprom data								
	J	Locking, Please wait						
Unlankahin								
Unlock chip								
		END 5	ESSION					
Rewrite partition			view the	wiring diagr	am			
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10. Unlocking is successful, as shown in Figure 10.

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Show Menu					f			P
PORSCHE V10.03 > Immobiliz	er Replacement >	Clone front-	end electronic	module > 2I	M25J			
						C		
Back up Eeprom data			Back up	Elash data				
		Info	ormation					
Write Eeprom data	Unlocking suc	cceeded						
Unlock chip								
			ОК					
Rewrite partition			view the	e winng ula	yıanı			
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11. Choose [Write EEPROM data], and choose the EEPROM data file of the original car module, as shown in Figure 11. Start writing, as shown in Figure 12.

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File list 🔶 暮 🖡	
PORSCHE V10.03 > Immobilizer Replacement > Clone front-end electronic module > 2M25J > Write Eeprom data	
Please select the EEPROM data to write	
rear eeprom.bin	
rear flash.bin	
Simos85 flash.bin	
Simos85 eeprom.bin	
Cancel	
Porsche	

Figure 11

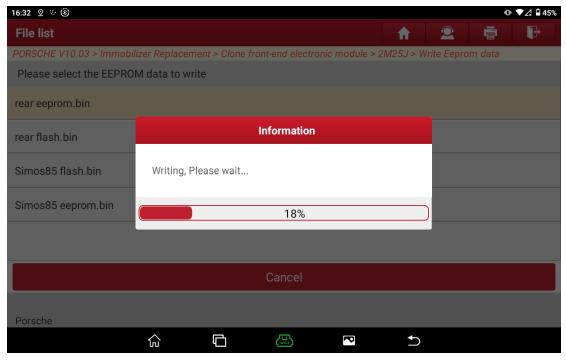


Figure 12

12.	After about 30	seconds,	the writing	is successful	l, as shown	in Figure	13.
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PORSCHE V10.03 > Immobili	zer Replacement > Clone :	front-end electronic	module > 2M25J >	Write Eepro	om data	
Please select the EEPRON	A data to write					
rear eeprom.bin						
		Information				
rear flash.bin						
Simos85 flash.bin	Writing succeeded					
Simos85 eeprom.bin						
		ОК				
		Cancel				
Porsche						
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Figure 13

13. Choose [Write Flash data], and choose the FLASH data file of the original car module, as shown in Figure 14. Start writing, as shown in Figure 15.

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File list							₽
PORSCHE V10.03 > Immobilizer	Replacement >	Clone front-end	electronic m	odule > 2M25	J > Write Flash	data	
Please select the FLASH dat	a to write						
rear eeprom.bin							
rear flash.bin							
Simos85 flash.bin							
Simos85 eeprom.bin							
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Figure 14

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File list					ft -		Ē	P
PORSCHE V10.03 > Immobil	lizer Replaceme	ent > Clone fr	ont-end electronic	module > 2M	25J > Wr	rite Flash	data	
Please select the FLASH	data to write							
rear eeprom.bin								
rear flash.bin			Information					
Simos85 flash.bin	Writing, Pl	ease wait						
Simos85 eeprom.bin			29%					
						•		
			Cancel					
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Figure 15

14. The FLASH data is large. After about 10 minutes, the writing is successful, as shown in Figure 16.

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File list		A 2 ē P
PORSCHE V10.03 > Immobiliz	er Replacement > Clone front-end electronic module > 2M2	5J > Write Flash data
Please select the FLASH d	lata to write	
rear eeprom.bin		
	Information	
rear flash.bin		
Simos85 flash.bin	Writing succeeded	
Simos85 eeprom.bin		
	ок	
	Cancel	
Porsche		
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Figure 16

15. The data is cloned successfully. Load the new module onto the vehicle for testing.

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