# **Operation Instructions for the function of Clone Engine Computer of Porsche**

## **Function description:**

Second-hand engine computer replacement of Porsche Cayenne (2011-2017), perform cloning to engine computer through BENCH mode (direct connection without opening the case) to complete the replacement.

## **Requirements:**

Device requirements: X431 PRO Anti-theft matching tool expert version/X431

Android device + Immobilizer programmer GIII

Software requirements: Porsche Anti-Theft V10.02 or Porsche V23.95

## **Operation steps:**

- 1. Remove engine computer of the original car, which is located under the wiper of front passenger, and prepare a good external engine computer.
- Here take the use of X431 PRO Anti-theft matching tool expert version as an example, enter the Porsche Anti-theft software (need to connect the Immobilizer programmer G3), select 【Engine Control Unit Replacement】 -> 【Clone engine computer】 -> 【Siemens SIMOS85】, the current menu is shown in Figure 1:



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#### Figure 1

3. Select **(**Obtain engine computer data of the original car **)**, the current menu is shown in Figure 2:

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Show Menu	A 🖶 🕑
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. Select 【View the wiring diagram】, as shown in Figure 3, connect engine computer of the original car according to the wiring diagram (to improve the communication speed and stability, please use a USB cable to connect the Android device and the Bluetooth connector), and execute 【Connect】 function to test whether the connection is normal.



5. Execute 【Connect】, and the connection is tested normal, as shown in Figure 4 and Figure 5:



Figure 4

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Show Menu			<b>A B</b>			
PORSCHE V10.02 > Engine Co	ontrol Unit Replacement > Clone	etal SIMOS8.5 > Obtain engine c	omputer data of the original car			
Connect		Disconnect				
Back up Eeprom data	Infor	mation				
Obtain chip ID	Connection succeeded					
View the wiring diagram	ОК					
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### Figure 5

6. Execute 【Backup 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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Show Menu				<b>f</b>	Ē	P
PORSCHE V10.02 > Engine C	ontrol Unit Replacement > C	lone etal SIMOS8	8.5 > Obtain engii	ne computer d	ata of the	original car
Connect		Disconne	ect			
Back up Eeprom data		Information				
Obtain chip ID	Reading.Please wait					
View the wiring diagram		37%				
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Figure 6



Figure 7



Figure 8

7. Execute 【Backup 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, among which the Flash data is large and takes a long time. Please wait patiently.

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Show Menu						<b>f</b>	Ē	P
PORSCHE V10.02 > Engine C	ontrol Unit R	eplacement > (	Clone etal SIM0	OS8.5 > Obta	in engine coi	mputer da	ata of the	original car
Connect			Disco	nnect				
Back up Eeprom data			Information					
Obtain chip ID	Reading.	Please wait						
View the wiring diagram			37%					
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Figure 9

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Show Menu			Inpu	t box		1	Ē	P
PORSCHE V10.02 > Eng	ine d Input	t the name o	of the file to	be saved		nputer	data of the	original ca
Connect	Simos	85 <u>flash</u>						
Back up Eeprom data	a (	CANCE	L		ок			
	flashbao	ck	cla	ash	f	lashes		Ŷ
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Figure 10

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Show Menu		<b>A</b>	ē	P		
PORSCHE V10.02 > Engine C	Control Unit Replacement > Clon	e etal SIMOS8.5 > Obtain engine o	computer d	lata of the o	original car	
Connect		Disconnect	Disconnect			
Back up Eeprom data	Info	rmation				
	Succeeded to save the file					
Obtain chip ID	/storage/emulated/0/cnlau DIAGNOSTIC/ImmoData/IN flash.bin	/storage/emulated/0/cnlaunch/X431Pro/988770001319/ DIAGNOSTIC/ImmoData/IMM_PORSCHE/Simos85 flash.bin				
View the wiring diagram						
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#### Figure 11

8. Select 【Decrypt immobilizer data】, load the backed up data file, as shown in Figure 12 and Figure 13, and the decryption result is shown in Figure 14:

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File list					<b>A</b>		P
PORSCHE V10.02 > Engine Co	ontrol Unit F	?eplacement >	Clone e…e com	puter data of th	e original car > D	ecrypt imm	obilizer data
Select the Eeprom data file	e to be dec	crypted					
Simos85 flash.bin							
Simos85 eeprom.bin							
			ESC				
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Figure 12

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File list					<b>A</b>		ŀ
PORSCHE V10.02 > Engine Cor	ntrol Unit Replace	ement > Clone e	ee computer	data of the ori	ginal car > Decry	/pt immobi	ilizer data
Select the Flash data file to	be decrypted						
Simos85 flash.bin							
Simos85 eeprom.bin							
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Figure 13

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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					
	OK					
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Figure 14

 After obtaining the original engine computer data, return to the parent menu and select 【Clone data to external engine computer】, the current menu is shown in Figure 15:

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Show Menu	
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

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Figure 15

- 10. As shown in step 4 and step 5, connect the external 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:

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m data





Figure 17

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File list				<b>A</b>	ē	ŀ
PORSCHE V10.02 > Engine Co	ontrol Unit Replacem	ent > Clone e> Clone	data to external er	ngine computer	> Write Ee	prom data
Select the engine compute	er Eeprom file of th	e original car				
Simos85 flash.bin						
		Information				
Simos85 eeprom.bin						
	Writing succeed	led				
	_			-		
		ОК				
		ESC				
		E3C				
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		Figure 18				

12. Execute 【Write Flash Data】, select the backed up Flash data file, and the software will automatically modify the data, as shown in Figure 19, Figure 20, and Figure 21:

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File list					<b>A</b>		₽
PORSCHE V10.02 > Engine C	Control Unit R	eplacement >	Clone e5 > C	lone data to ext	ernal engine con	nputer > Writ	e Flash data
Select the engine compu	ter Flash file	e of the origin	al car				
Simos85 flash.bin							
Simos85 eeprom.bin							
			ESC				
Porsche							
	G	þ	<b>B</b>	P	ſ		



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File list						<b>f</b>	Ē	P
PORSCHE V10.02 > Engine (	Control Unit	Replacement >	Clone e5 > Cl	lone data to ex	kternal engin	e compu	iter > Write	Flash data
Select the engine compu	ter Flash fi	le of the origin	al car					
Simos85 flash.bin								
Simos85 eeprom.bin			Information					
	Writing.	Please wait						
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			ESC					
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Figure 20



Figure 21

13. After the operation is completed, please install the external engine computer on the vehicle and the engine can be started normally.

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