

Instructions for BMW_2024_U12

Chassis EPS Start-up (Manual Activation of SFA Token)

Function Description: This function can be used for calibration when the EPS module is replaced or the vehicle reports a calibration fault.

Supported Products: PAD series comprehensive diagnostic equipment

Tested Product: X431PAD5

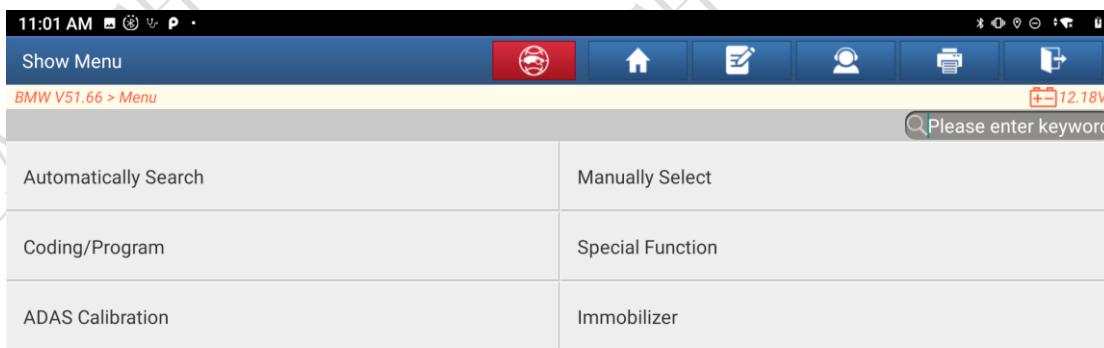
Tested Model

For 2024 X1, after replacing the EPS (Electric Power Steering) with a new one and programming and coding it, it is necessary to use this special function to perform the start-up of the EPS system.



Procedure

1. Turn on the vehicle ignition switch, connect the diagnostic connector, and choose BMW V51.66 or later version.
2. Choose [Automatically Search] and read vehicle information.



Automatically Search	Manually Select
Coding/Program	Special Function
ADAS Calibration	Immobilizer

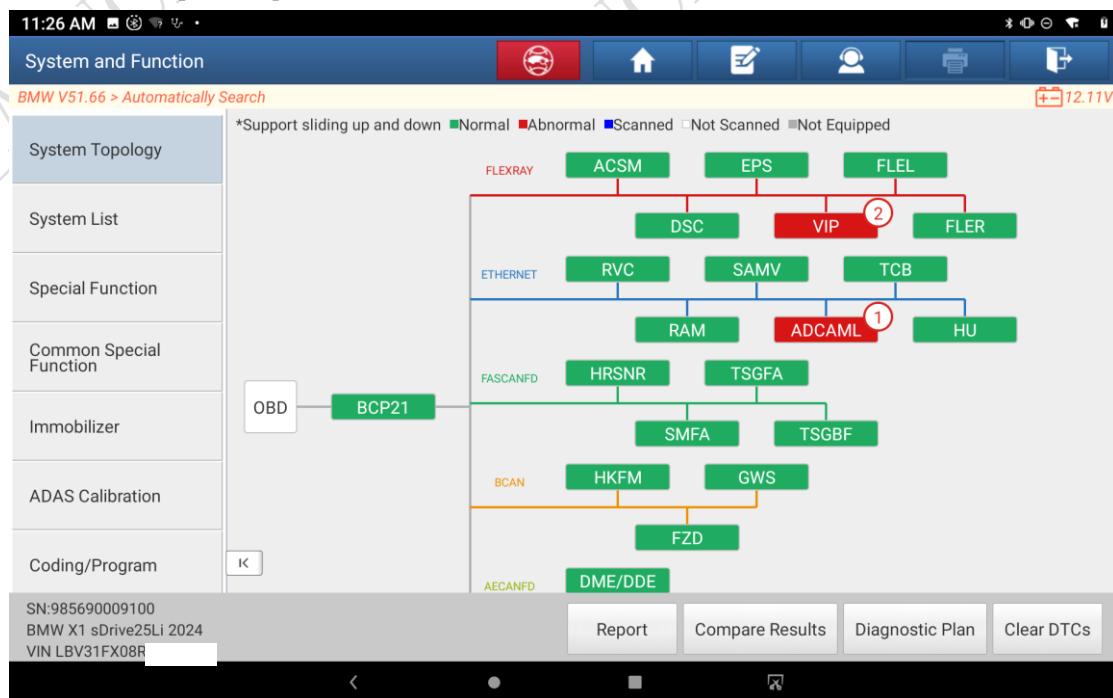


Vehicle Information	Configuration
Vehicle Identification Number:	LBV31FX08RM
Development Code:	U12
Series:	X'
Sales Designation:	X1 sDrive25Li
Gearbox:	X
Steering:	left-hand drive
Construction Date:	2023.11

NEXT

SN:985690009100
BMW X1 sDrive25Li 2024
VIN LBV31FX081

3. Choose [NEXT].



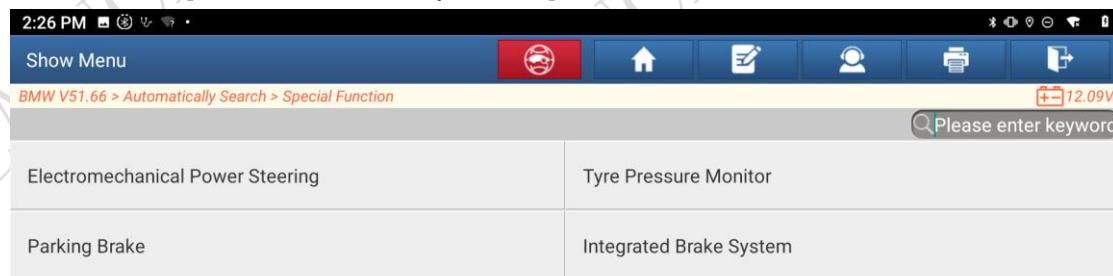
4. Choose [Special Function].

Table showing Special Function categories:

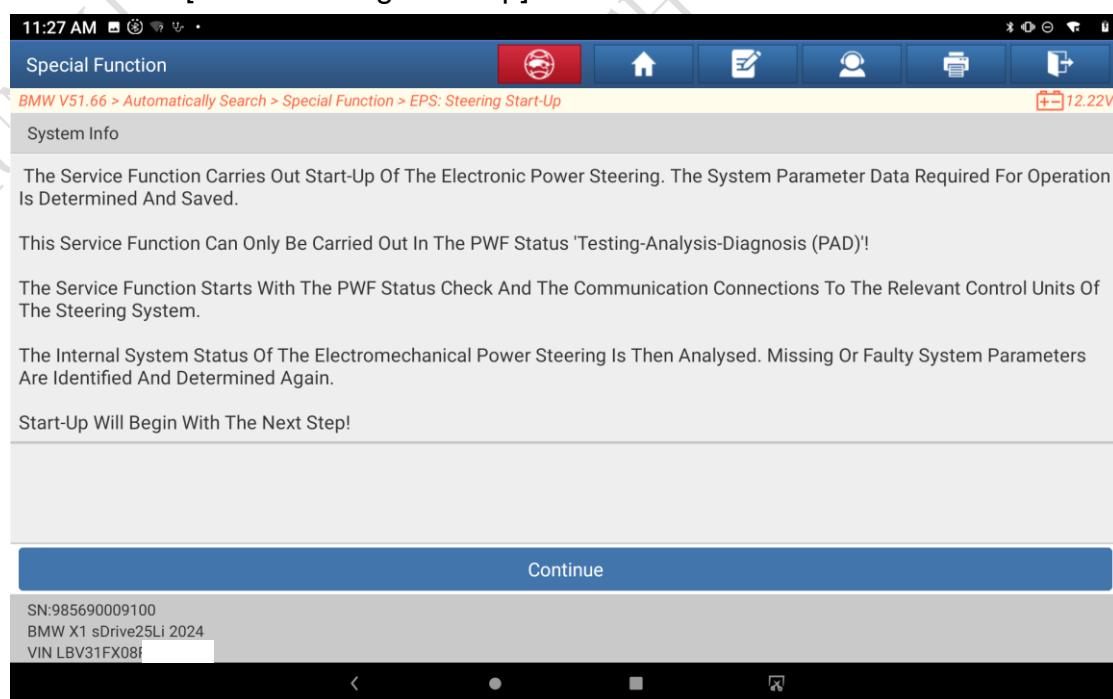
BMW V51.66 > Automatically Search > Special Function	
Power Train	Chassis And Suspension
Body	Driver Assistance
Maintenance And Pre-Delivery Check	Vehicle Information

SN: 985690009100
BMW X1 sDrive25Li 2024
VIN: LBV31FX08R

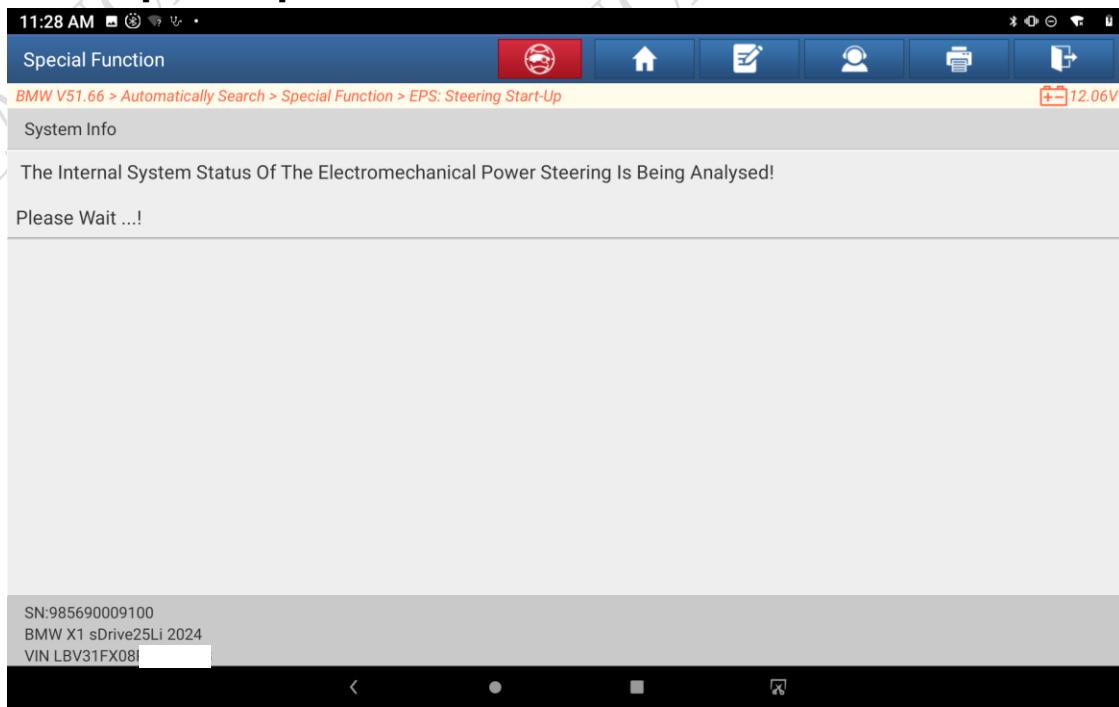
5. Choose [Chassis And Suspension].



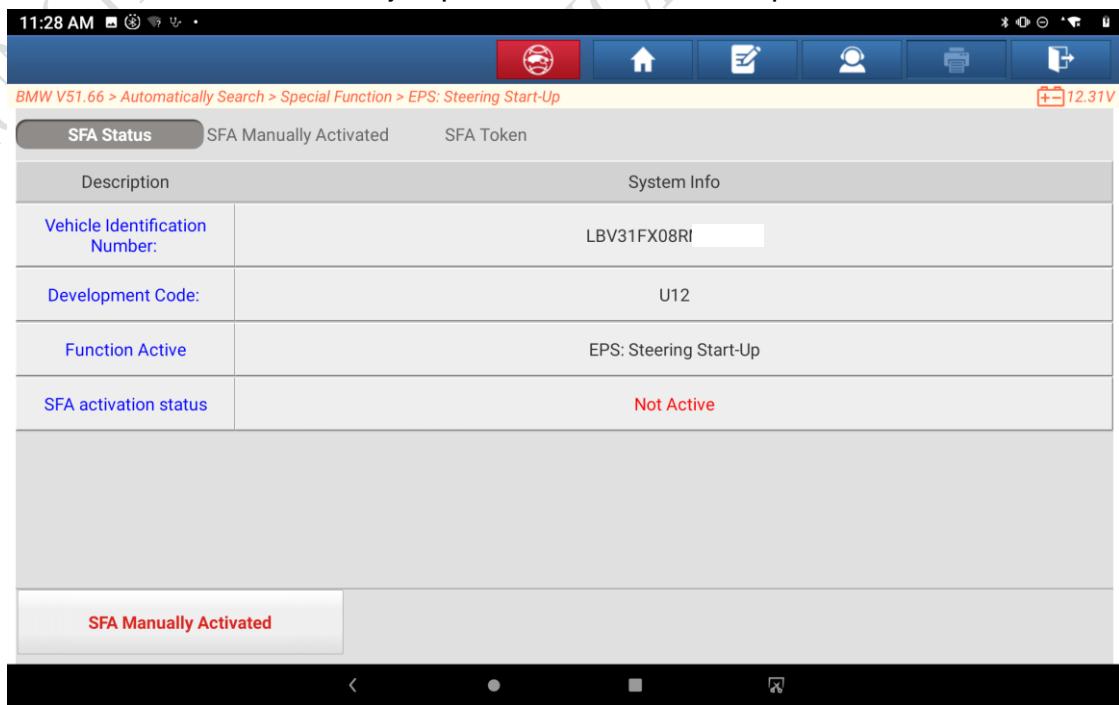
6. Choose [EPS: Steering Start-Up].



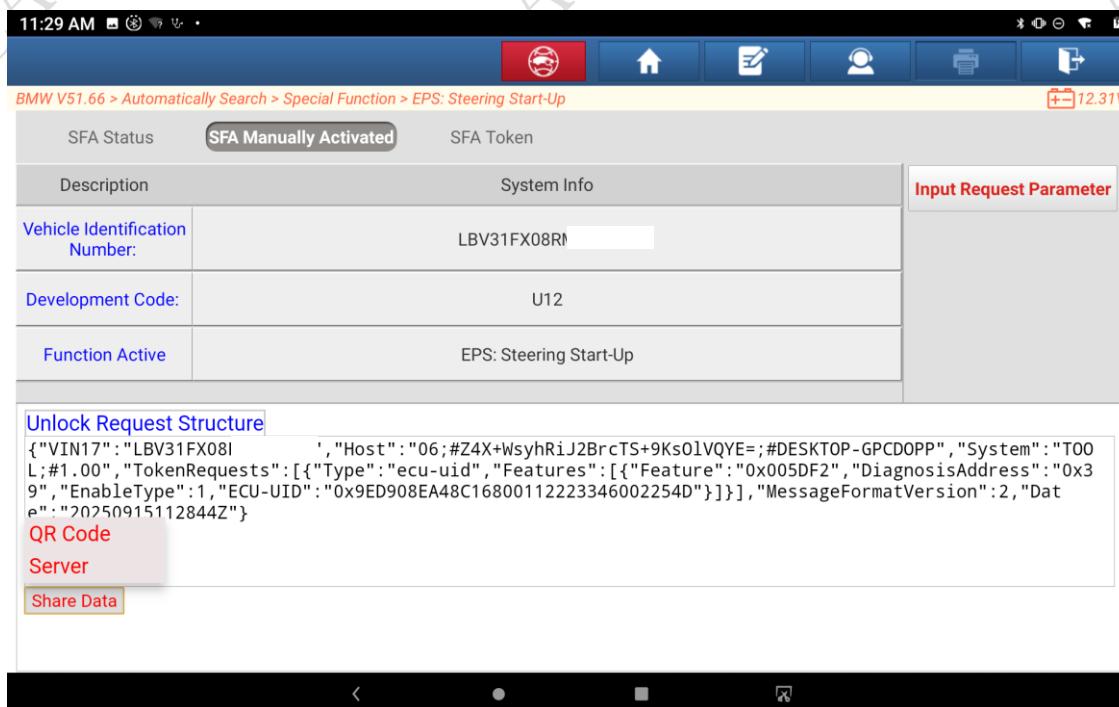
7. Click [Continue].



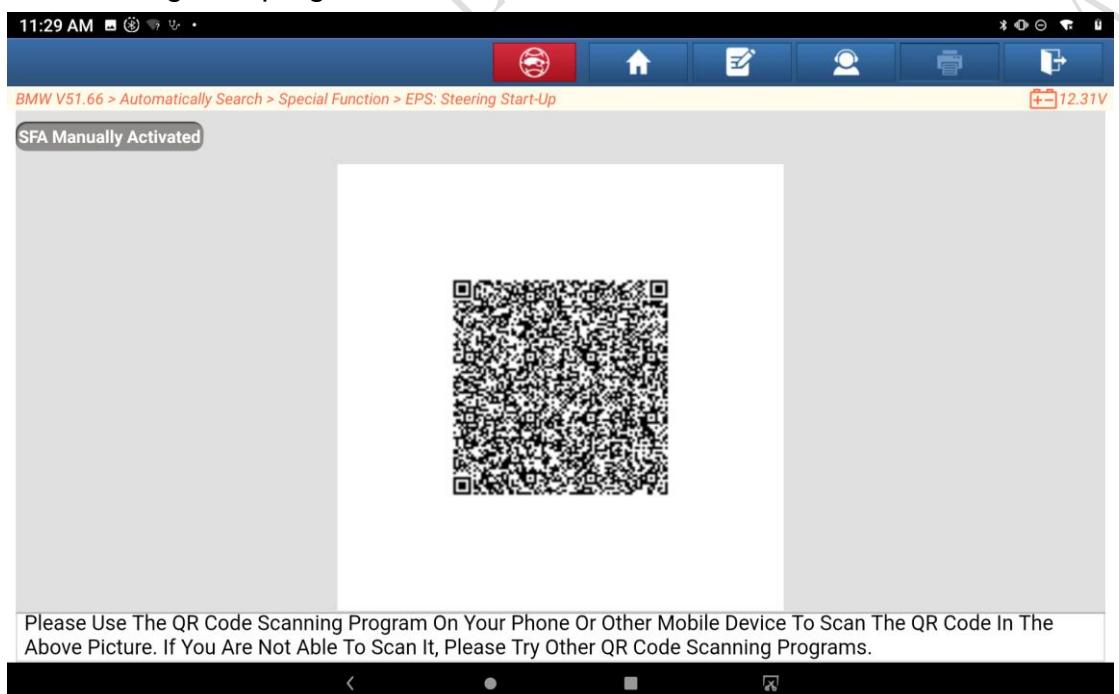
8. At this point, the software will read the current SFA status of the function. If it is not activated, it will jump to the manual SFA import interface.



9. Choose [SFA Manually Activated]. Two operation methods are provided: QR code sharing and server sharing. First, the QR code sharing option is introduced. Select the [QR Code] option from the [Share Data] button on the manual SFA activation interface.



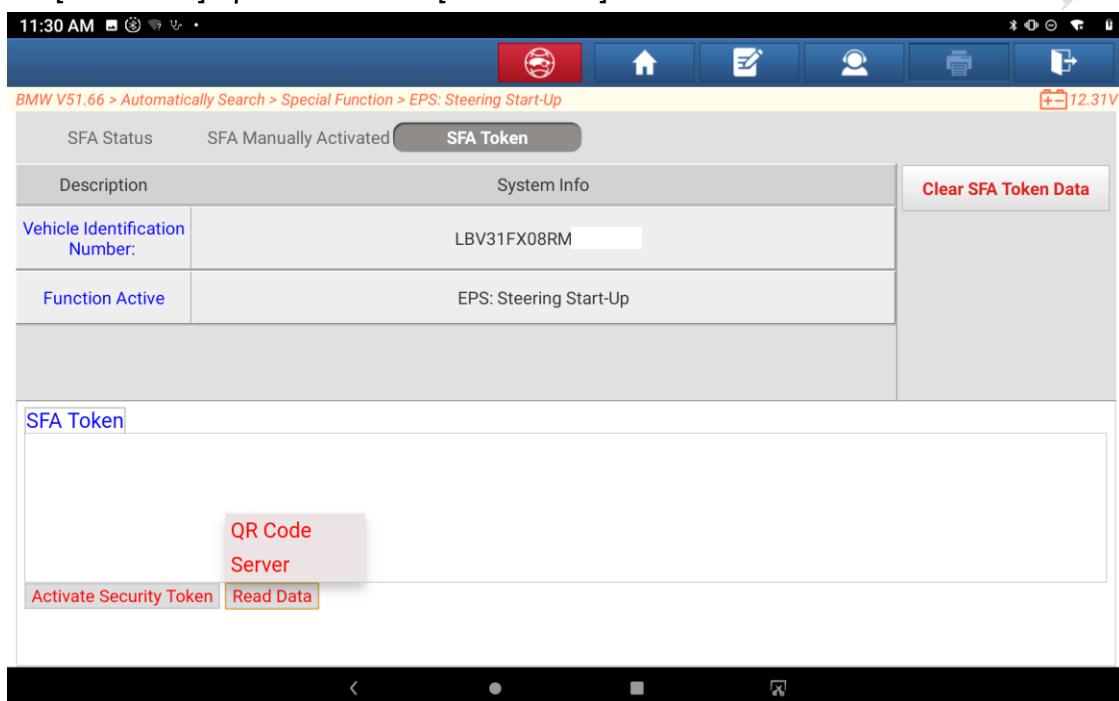
10. Scan the QR code using Alipay's scan function or WeChat's QR code scanning mini-program.



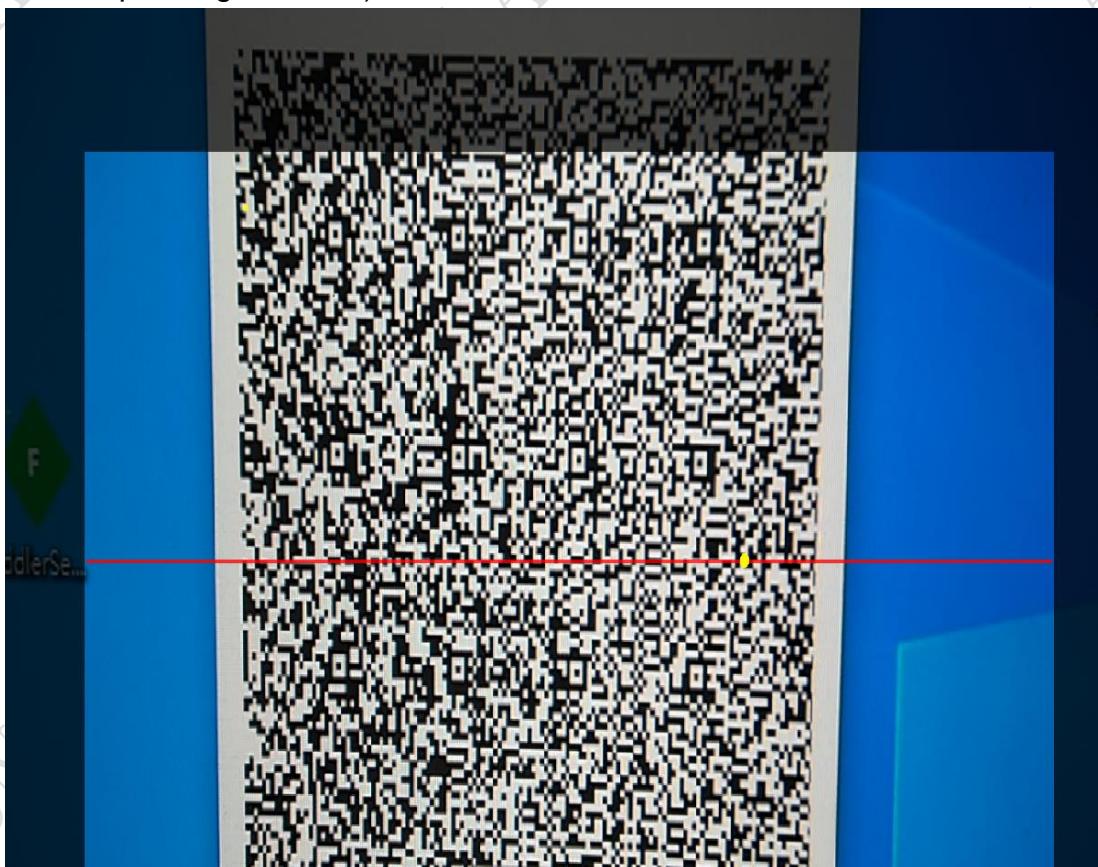
11. Share the "Unlock Request Structure" data obtained from the scan with a third party (such as a Taobao seller) for calculation.

Vehicle Identification Number: : LBV31FX08RM
Development Code: : U12
Function Active : EPS: Steering Start-Up
Unlock Request Structure :
{"VIN17":"LBV31FX08RM","Host":
"06:#Z4X+WsyhRiJ2BrcTS+9KsOIVQYE;#D
ESKTOP-
GPCDOPP","System":"TOOL;#1.00","Token
Requests":[{"Type":"ecu-uid","Features":
[{"Feature": "0x005DF2","DiagnosisAddress
": "0x39","EnableType": 1,"ECU-
UID": "0x9ED908EA48C168001122233460
02254D"}]}],"MessageFormatVersion": 2,"Date": "20250915112844Z"}

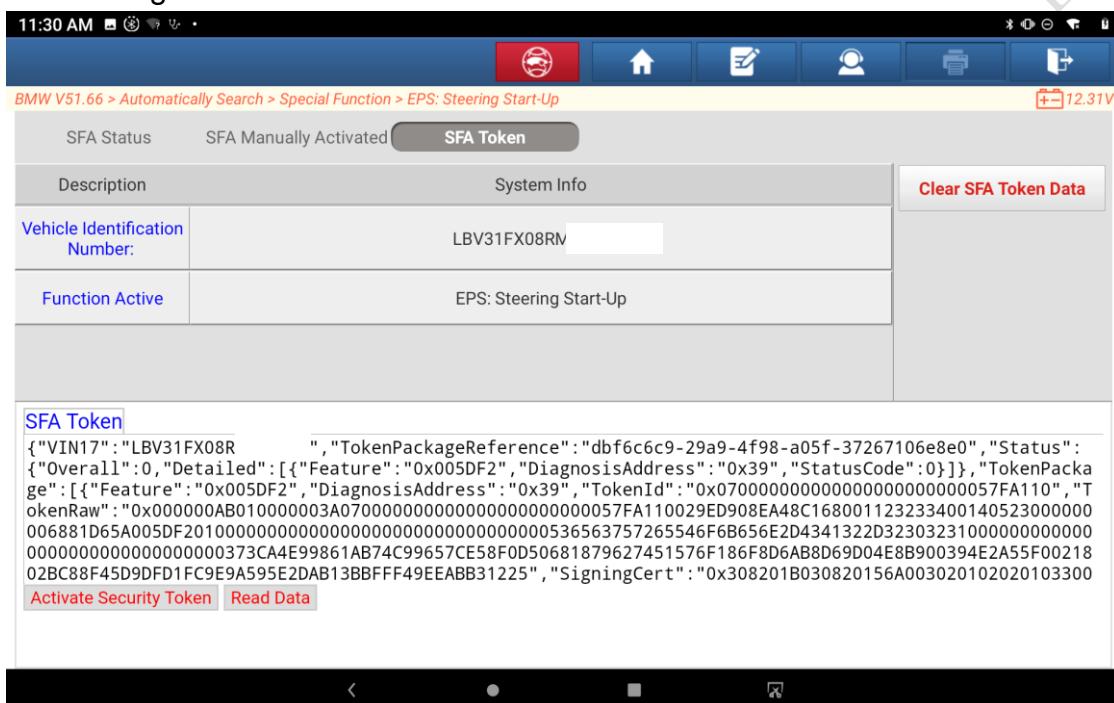
12. Click the [SFA Token] button on the diagnostic device, and then click the [QR Code] option from the [Read Data] button.



13. Then use the QR code scanning window to scan the SFA token data QR code provided by the third party (if text data is returned, you can use Baidu to search for QR code generator and generate a QR code from the corresponding text data).



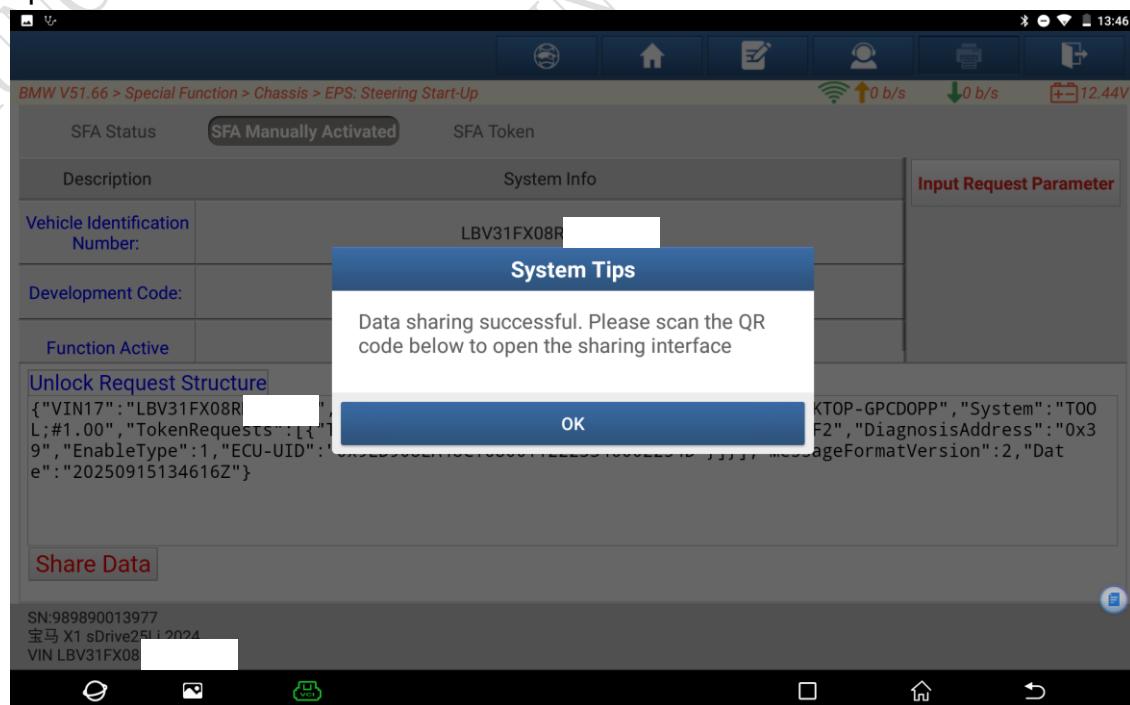
14. After the scan is completed, the SFA token data will be obtained, as shown in the figure below.



9. 1 The second sharing method: server sharing. Click [Server].



10.1 Start connecting to the server to upload data. After the data is uploaded successfully, a QR code will be displayed. Use WeChat to scan the QR code to open the website.





11.1 On the webpage, you can copy the unlock structure data and share the data with a third party (such as a Taobao seller) for calculation.

SFA Data Share		English 简体中文
ID	LBV31FX08	
SFA Request Data Type	Text	
SFA Request Data	<input type="button" value="Copy"/> <input type="button" value="Select All"/> Vehicle Identification Number: : LBV31FX08 Development Code: : U12 Function Active : EPS: Steering Start-Up Unlock Request Structure : {"VIN1": "LBV31F", "Host": "06:#Z4N=WsyhRij2BrcTS=9Ks01VQIE=;#DESKTOP-GPCDOPP", "System": "TOOL:#1.00", "TokenRequests": [{"Type": "ecu-uid", "Features": [{"Feature": "0x005DF2", "Value": "1"}]}]}	
SFA Token Type	Text	
SFA Token	<input type="button" value="Paste"/> <input type="button" value="Copy"/> <input type="button" value="Select All"/> <input type="button" value="Clear All"/> <div style="border: 1px solid #ccc; height: 150px; width: 100%;"></div>	
<input type="button" value="Submit SFA Token"/>		
Expired Time	2025-09-16 13:46:31.816	
Create Time	2025-09-15 13:46:31.816	
Update Time	2025-09-15 13:46:31.816	
		激活 Windows <small>转到 设置 以激活 Windows。</small>

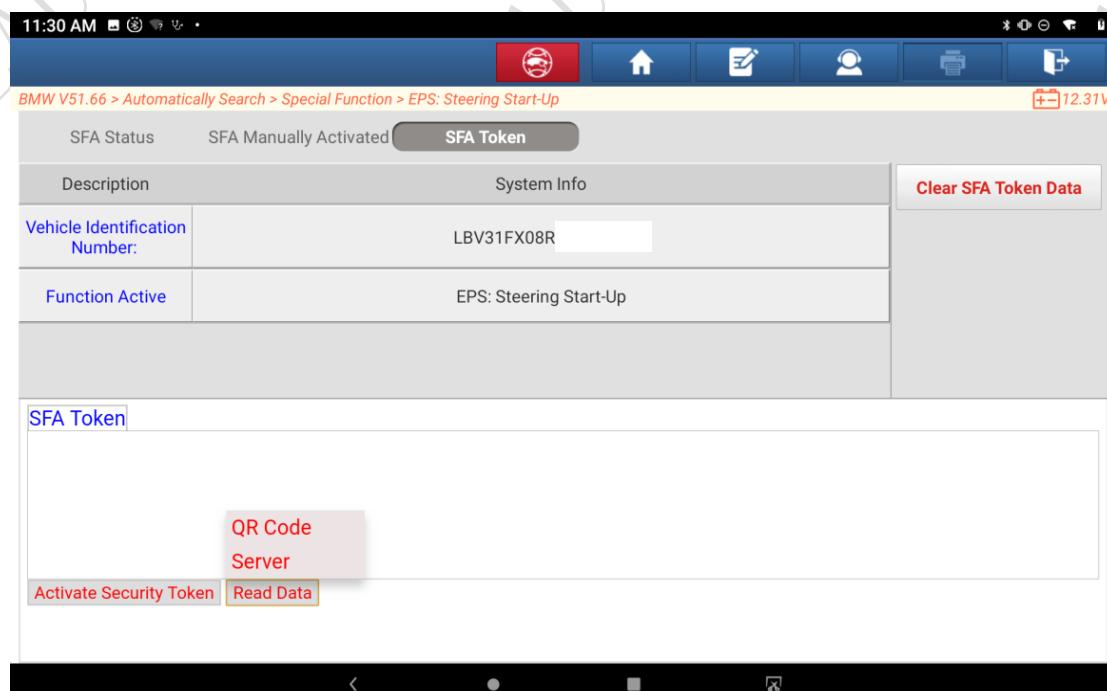
12. 1 After the third-party seller completes the calculation, they will provide you with a JSON file. On the webpage interface, select [File] from the [SFA Token Type] field, import the file you just obtained, and click [Submit SFA Token].

SFA Data Share	
ID	LBV31FX08RM84
SFA Request Data Type	Text
SFA Request Data	<div style="display: flex; justify-content: space-between; align-items: center;"> Copy Select All </div> <p>Vehicle Identification Number: : LBV31FX08#</p> <p>Development Code: : U12</p> <p>Function Active : EPS: Steering Start-Up</p> <p>Unlock Request Structure :</p> <pre>{"VIN1": "LBV31FX08R", "Host": "06#Z4X#WsJhRiJZBrTS#9s01VQE#-#DESKTOP-GPCDOPP", "System": "TOOL", "Value": "1.00", "TokenRequests": [{"Type": "ecu-uid", "Features": [{"Feature": "0x005DF2", "D": "00000000000000000000000000000000"}]}]}</pre>
SFA Token Type	<div style="display: flex; justify-content: space-between; align-items: center;"> File <input type="button" value="Download"/> </div>
SFA Token	C:\fakepath\SecurityTokenRes_LBV31FX07R...
	Submit SFA Token
Expired Time	2025-09-16 13:46:31.816
Create Time	2025-09-15 13:46:31.816
Update Time	2025-09-15 13:46:31.816

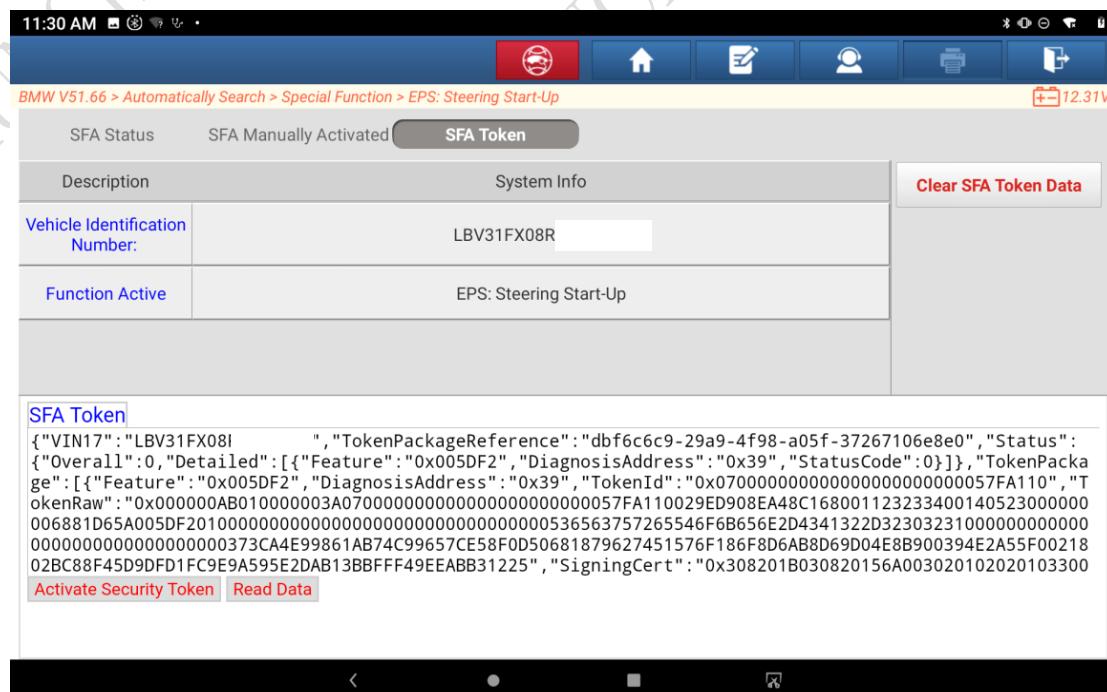


12.2 Alternatively, select [Text] from the [SFA Token Type] field, open the JSON file you just obtained, copy the file content, paste it into the [SFA Token] field, and click [Submit SFA Token].

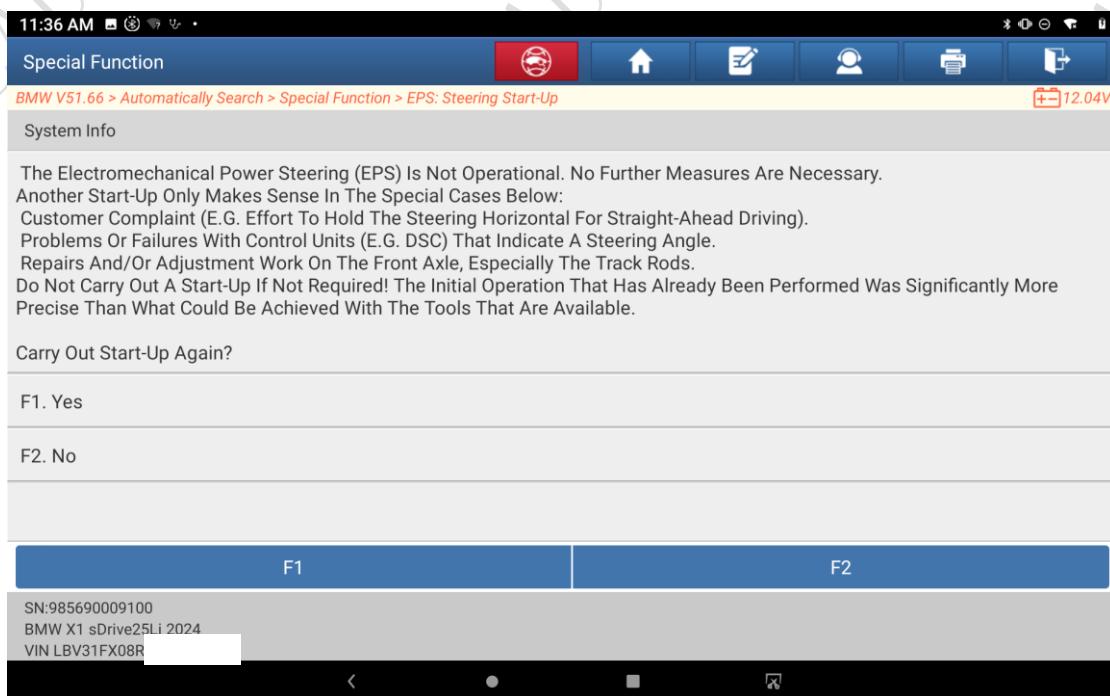
13.1 After the data submission is completed, return to the diagnostic software interface, click [SFA Token], and click the [Server] option from the [Read Data] button.



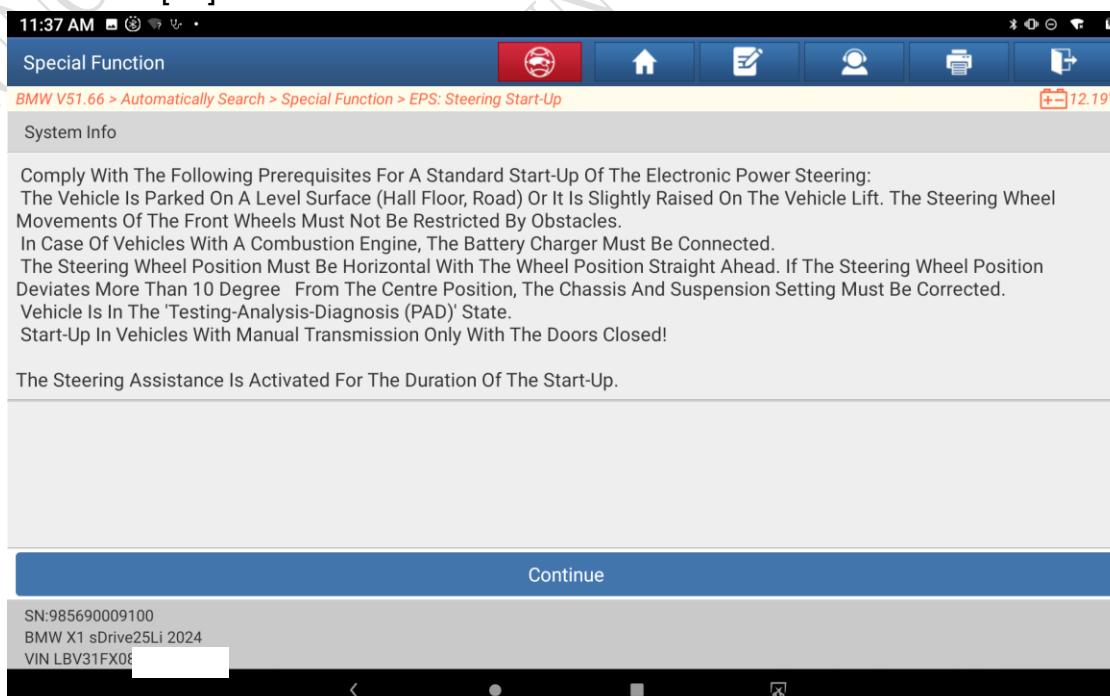
14.1 Obtain the data submitted on the webpage.



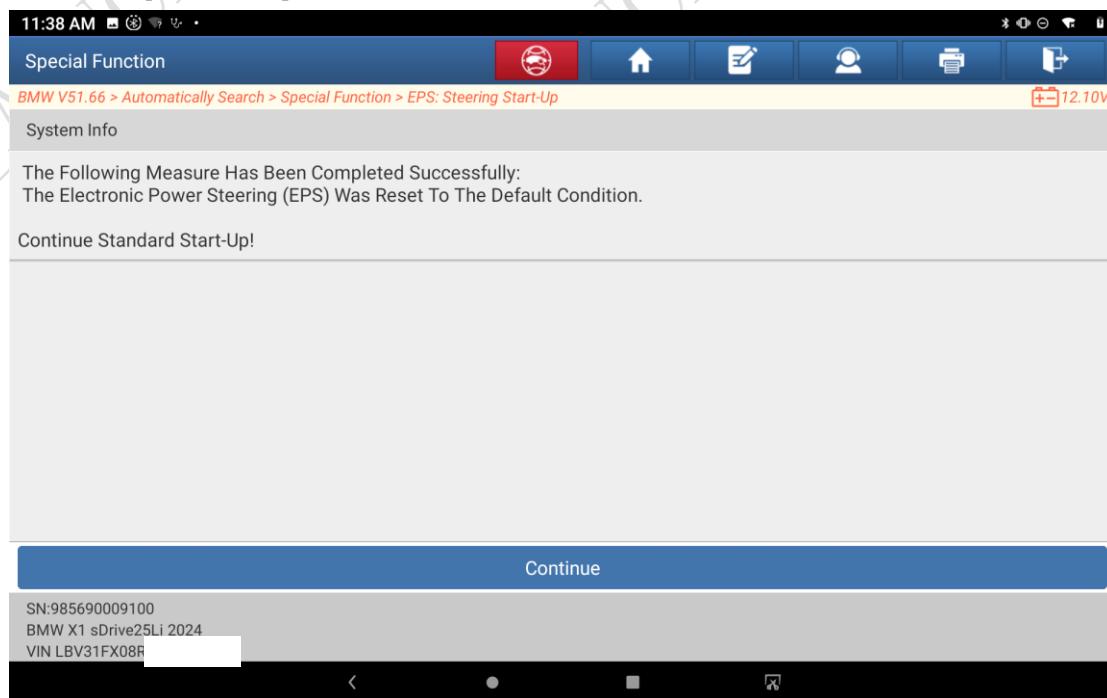
15. Click the [Activate Security Token] button, and the unlocking will be successful. Then, the corresponding EPS steering system start-up can be performed.



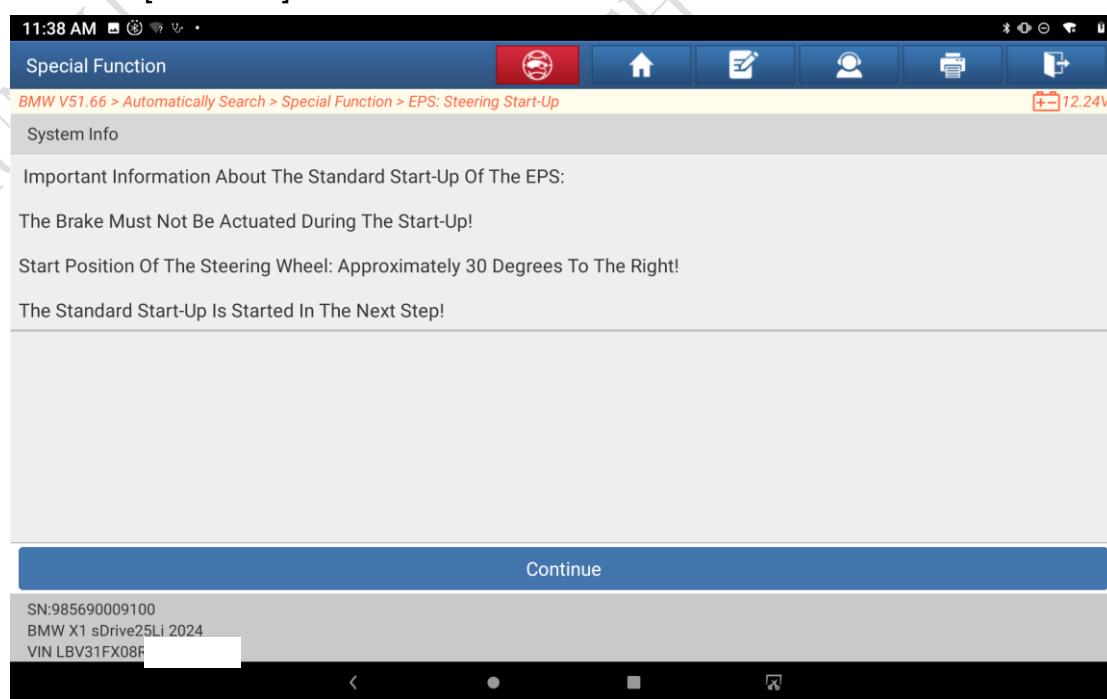
16. Select [F1].



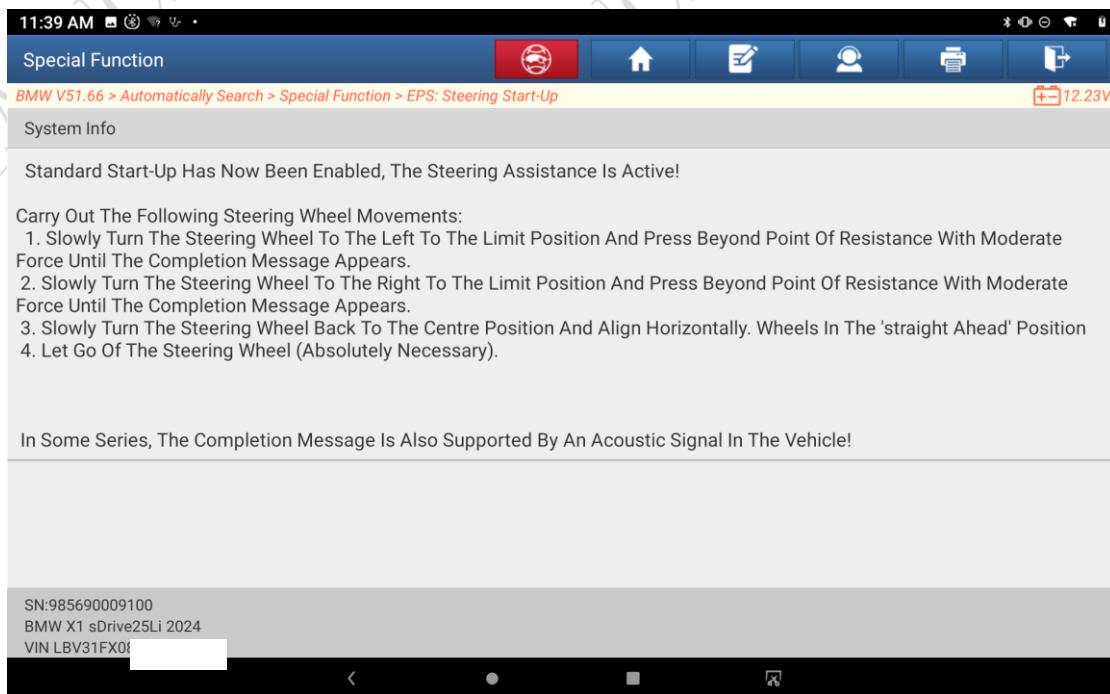
17. Click [Continue].



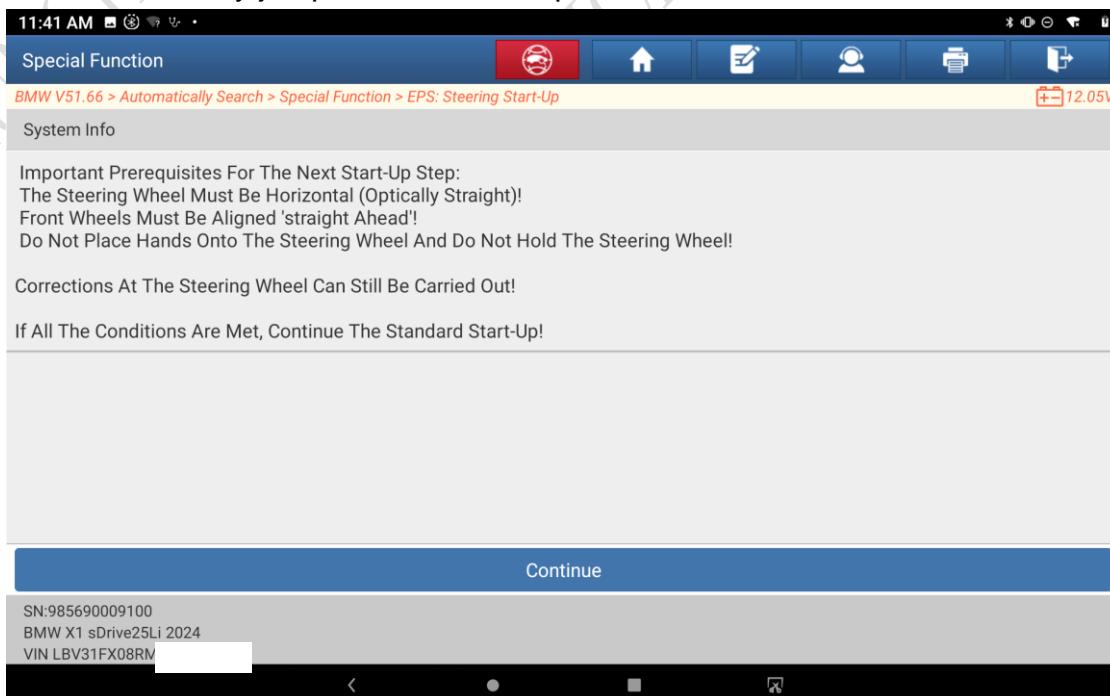
18. Click [Continue].



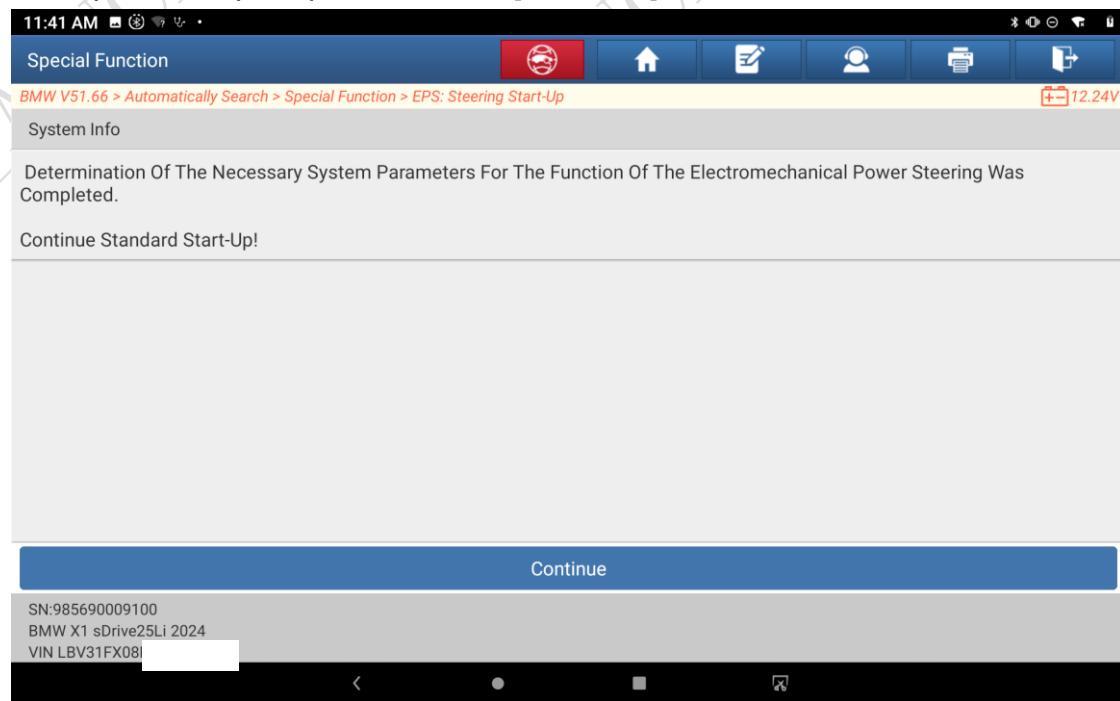
19. Operate as prompted and click [Continue].



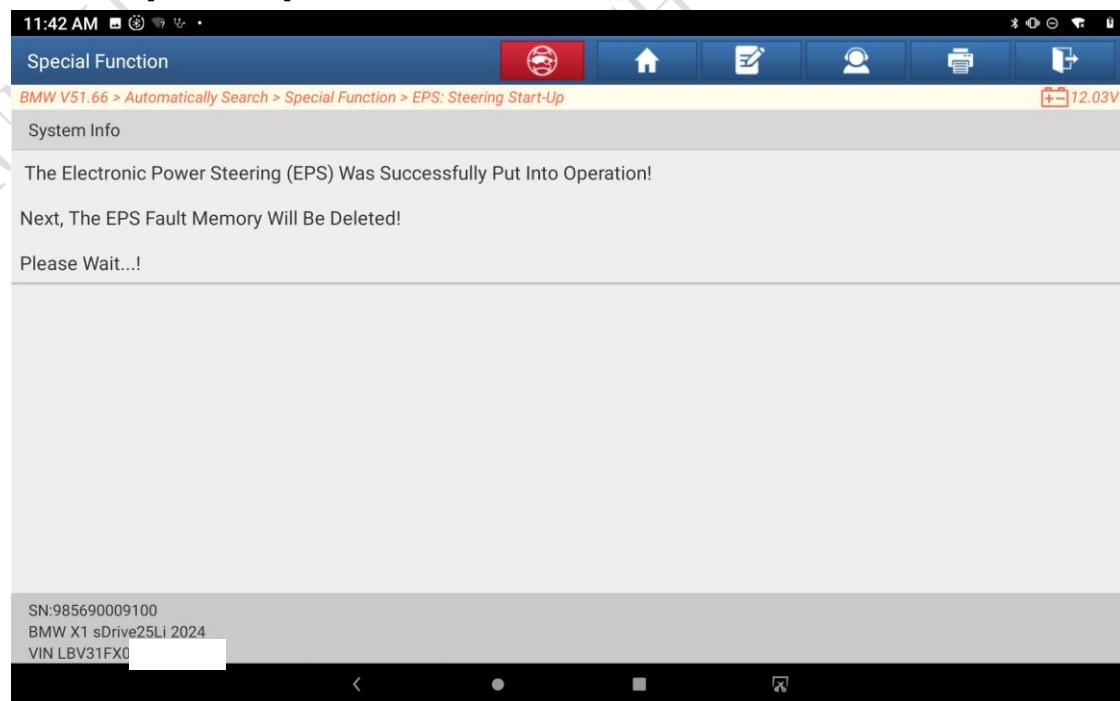
20. Turn the steering wheel according to the previous step prompt. It automatically jumps to the next step when the conditions are met.

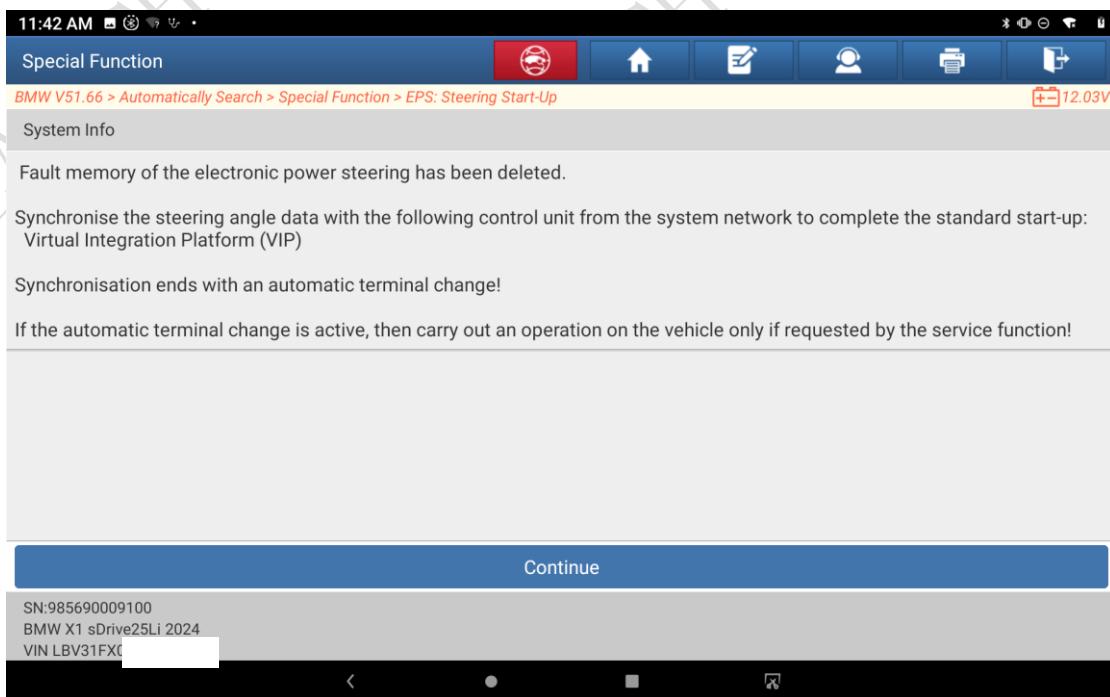


21. Operate as prompted and click [Continue].

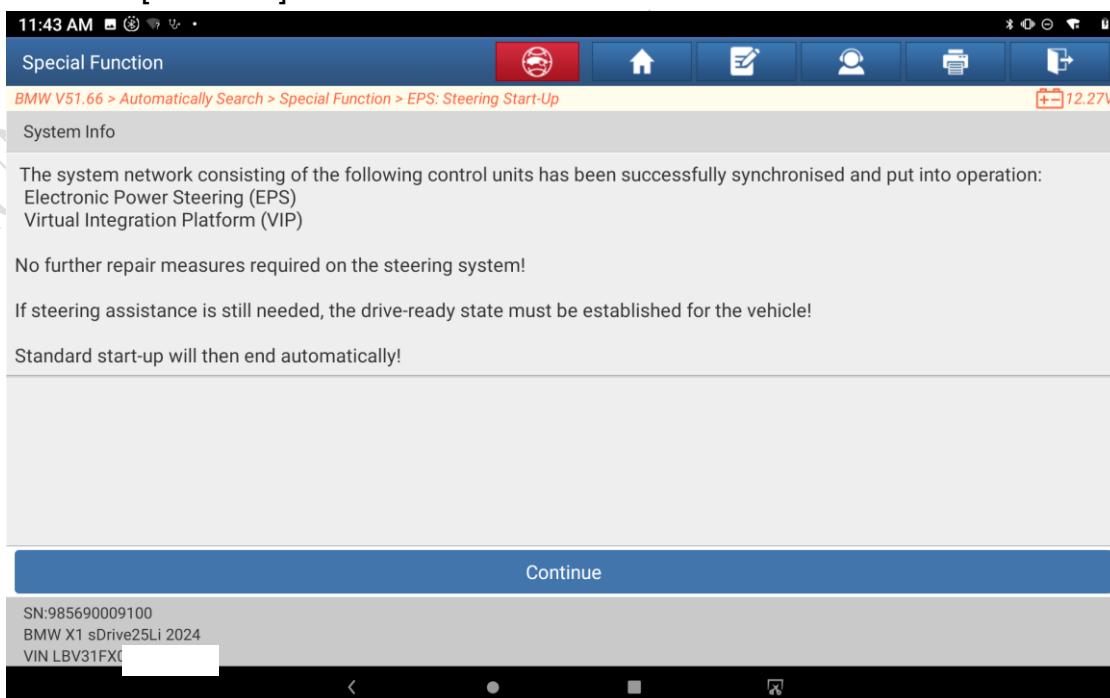


22. Click [Continue].





23. Click [Continue].



The function is completed.

[Statement]

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