

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.

11:01 AM

Show Menu

BMW V51.66 > Menu 12.18V

Please enter keyword

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

SN:985690009100
BMW

11:02 AM

Information

BMW V51.66 > Automatically Search 12.38V

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 LBV31FX08

3. Choose [NEXT].

System and Function

BMW V51.66 > Automatically Search 12.11V

*Support sliding up and down ■ Normal ■ Abnormal ■ Scanned ■ Not Scanned ■ Not Equipped

System Topology

System List

Special Function

Common Special Function

Immobilizer

ADAS Calibration

Coding/Program

SN:985690009100
BMW X1 sDrive25Li 2024
VIN LBV31FX08R

Report Compare Results Diagnostic Plan Clear DTCs

4. Choose [Special Function].

11:26 AM Show Menu

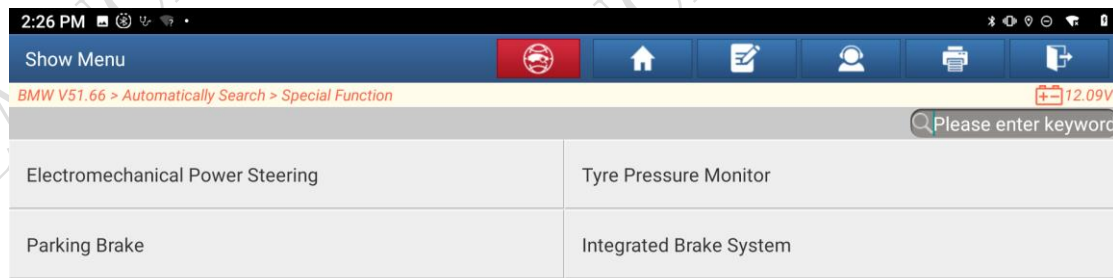
BMW V51.66 > Automatically Search > Special Function 12.11V

Please enter keyword

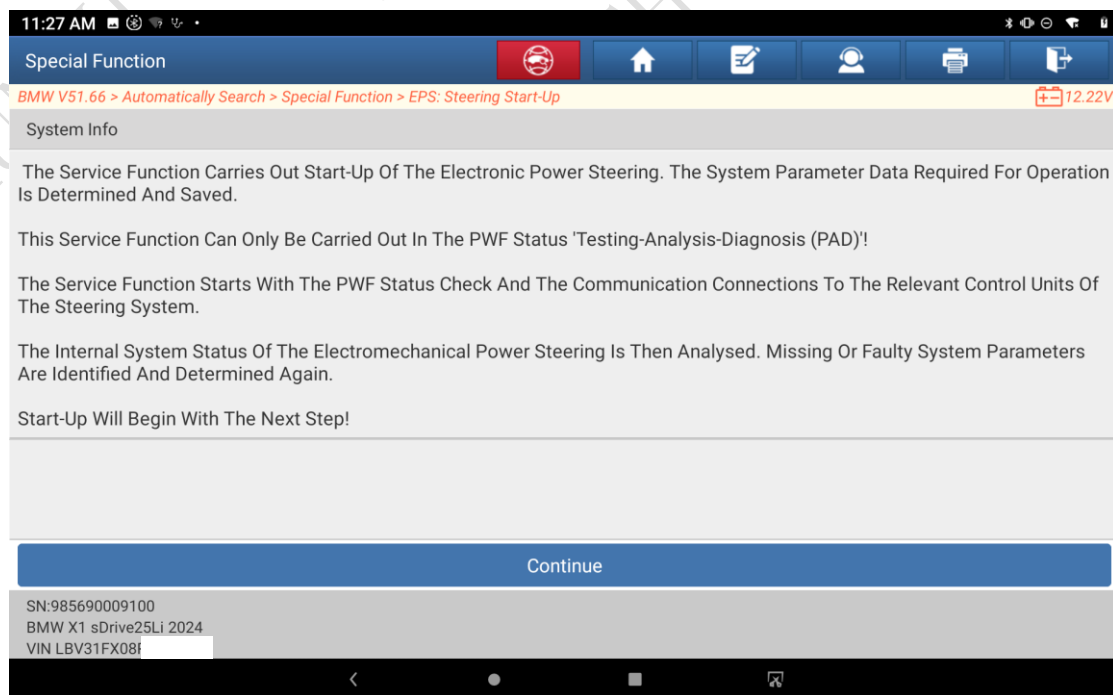
Power Train	Chassis And Suspension
Body	Driver Assistance
Maintenance And Pre-Delivery Check	Vehicle Information

SN:985690009100
BMW X1 sDrive25Li 2024
VIN LBV31FX08R

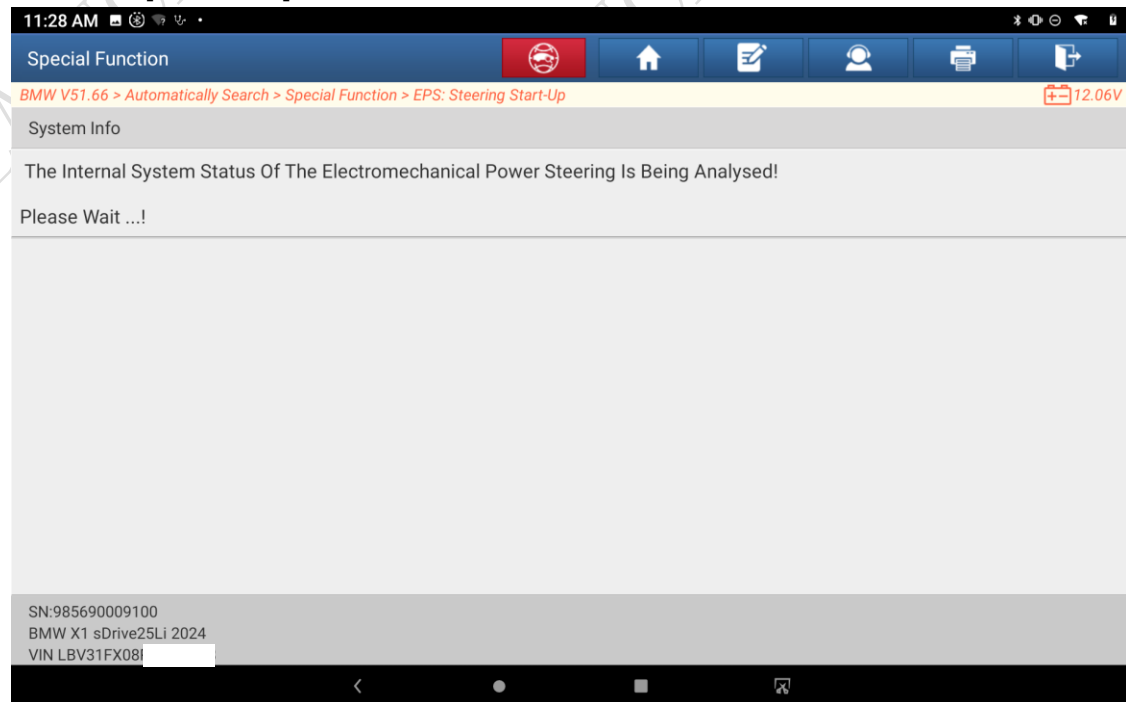
5. Choose [Chassis And Suspension].



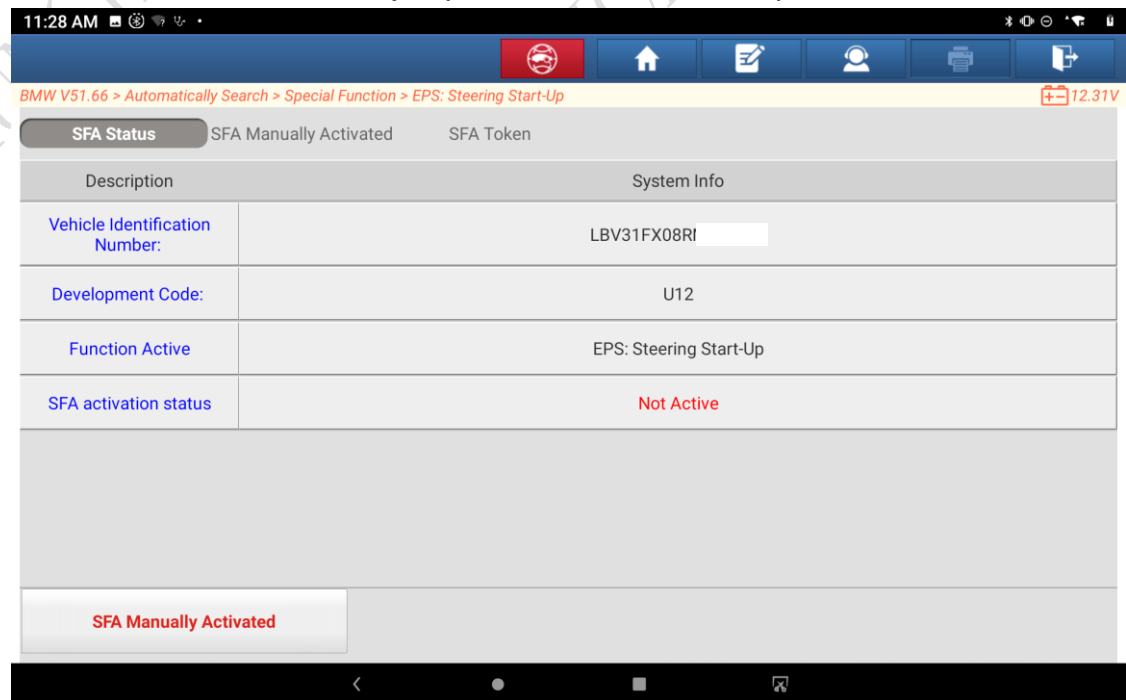
6. Choose [EPS: Steering Start-Up].



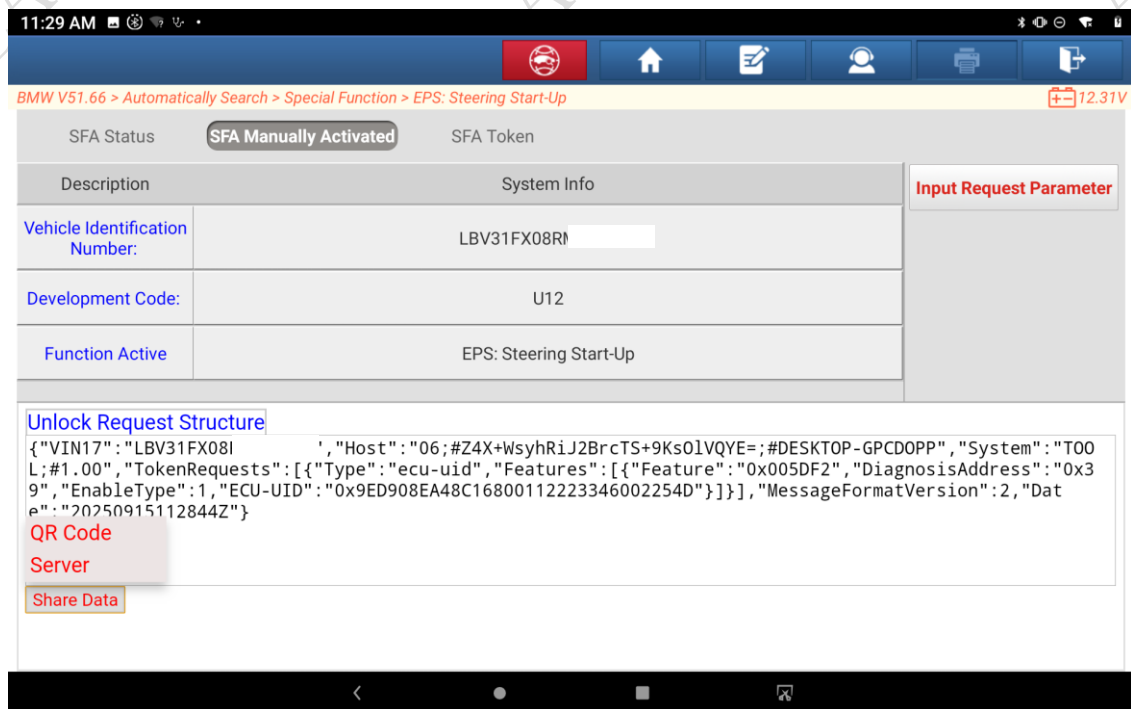
7. Click [Continue].



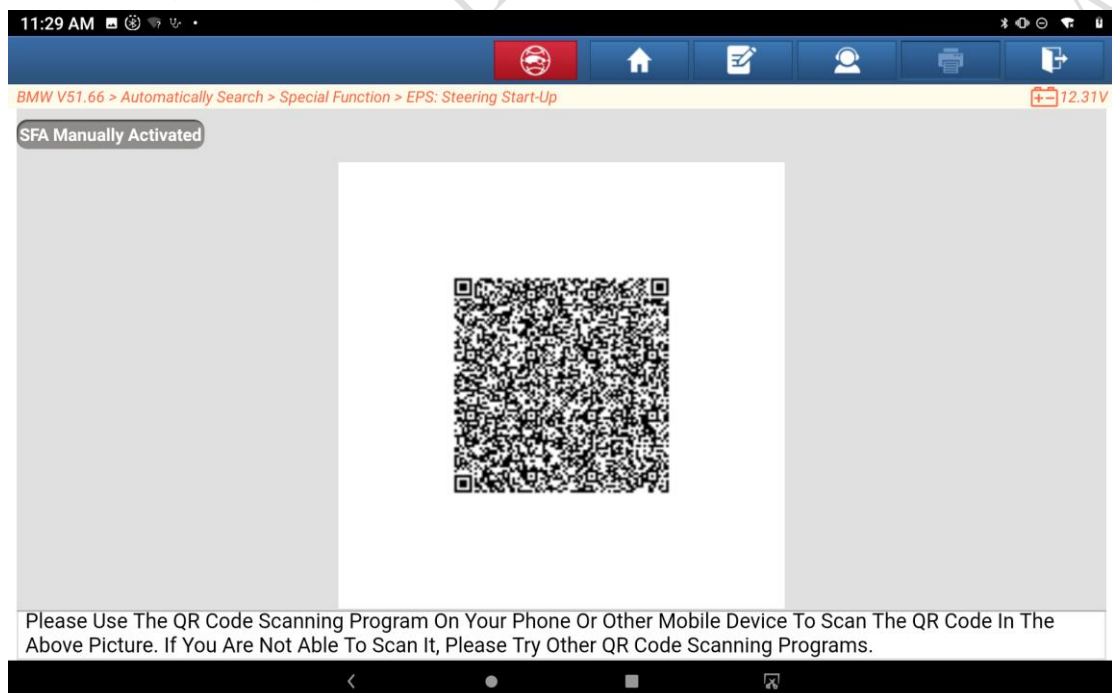
8. At this point, the software will read the current SFA status of the function. If it is not activated, it will jump to the manual SFA import interface.



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.

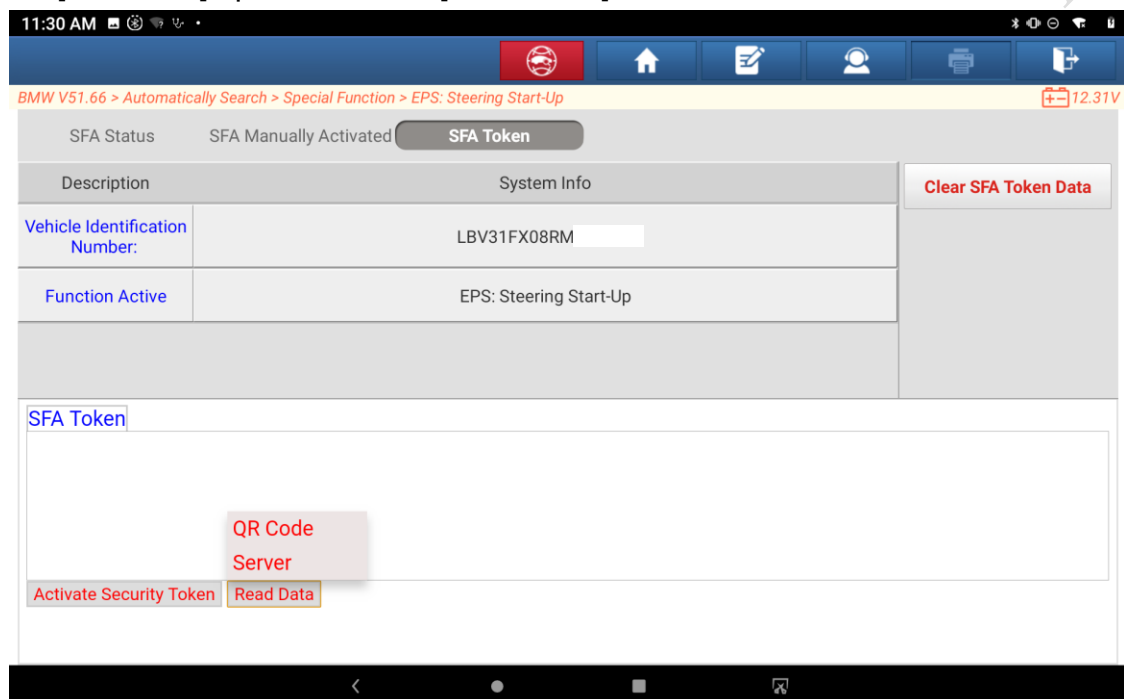


- Share the "Unlock Request Structure" data obtained from the scan with a third party (such as a Taobao seller) for calculation.

```

Vehicle Identification Number: : LBV31FX
08RM
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,"D
ate":"20250915112844Z"}
    
```

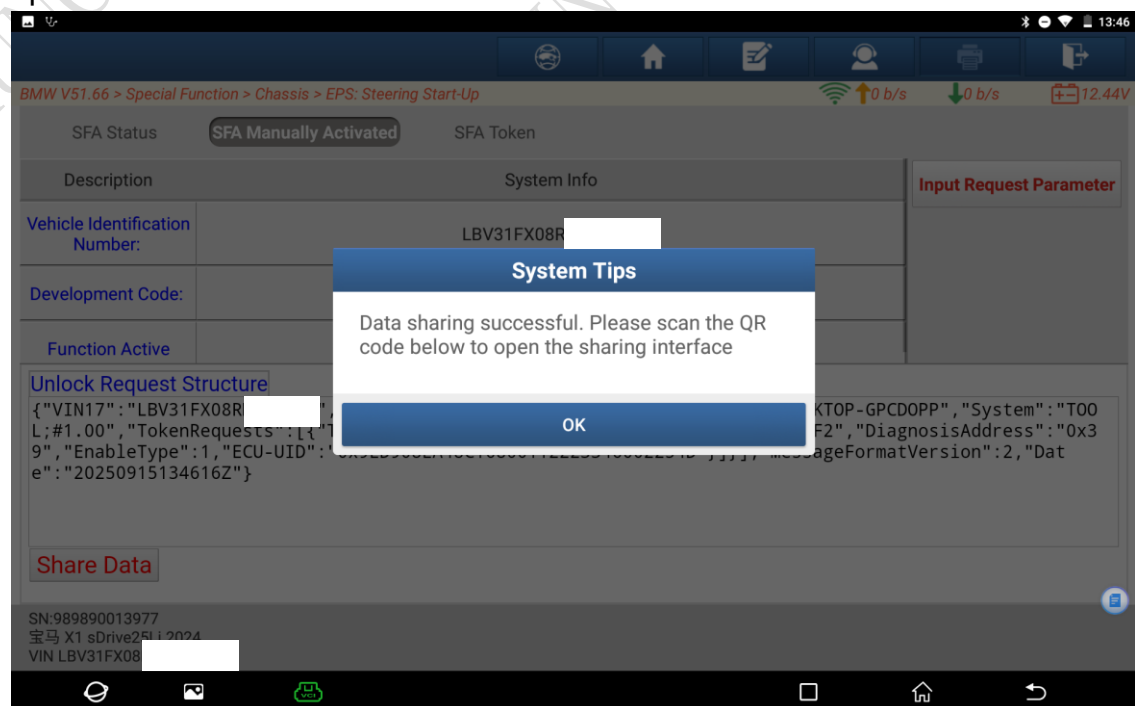
- Click the [SFA Token] button on the diagnostic device, and then click the [QR Code] option from the [Read Data] button.

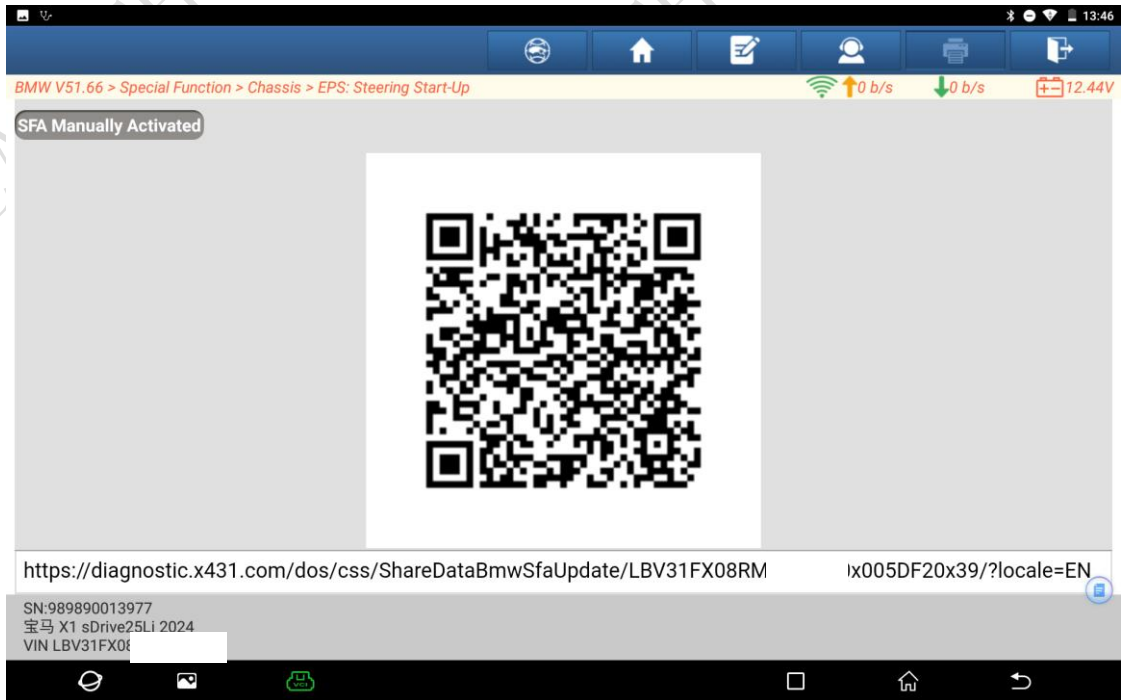


9. 1 The second sharing method: server sharing. Click [Server].

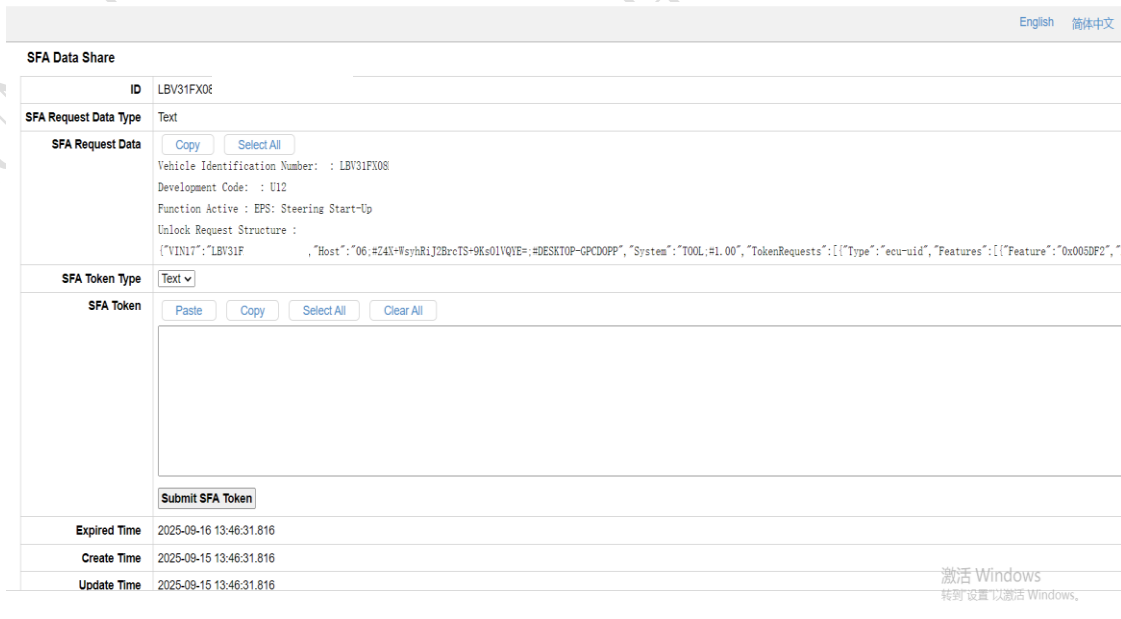


10.1 Start connecting to the server to upload data. After the data is uploaded successfully, a QR code will be displayed. Use WeChat to scan the QR code to open the website.





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.



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].

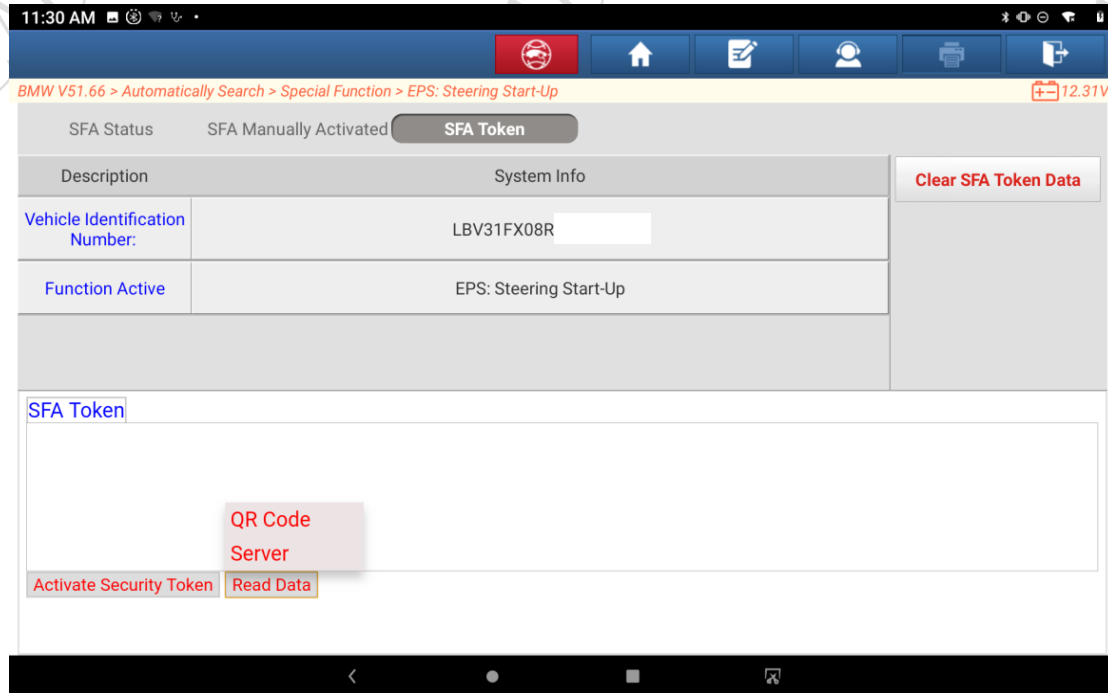
SFA Data Share	
ID	LBV31FX08RM84
SFA Request Data Type	Text
SFA Request Data	<div style="display: flex; justify-content: space-between;"> Copy Select All </div> Vehicle Identification Number: : LBV31FX08F Development Code: : U12 Function Active : EPS: Steering Start-Up Unlock Request Structure : <pre>{ "VIN17": "LBV31FX08F", "Host": "06:#24X=#5yhRiJ2BrcTS=9Ks01VQIE=#DESKTOP-GPCDOPP", "System": "TOOL:#1.00", "TokenRequests": [{"Type": "ecu-uid", "Features": [{"Feature": "0x005DF2", "D":</pre>
SFA Token Type	File
SFA Token	C:\fakepath\SecurityTokenRes_LBV31FX07R... <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



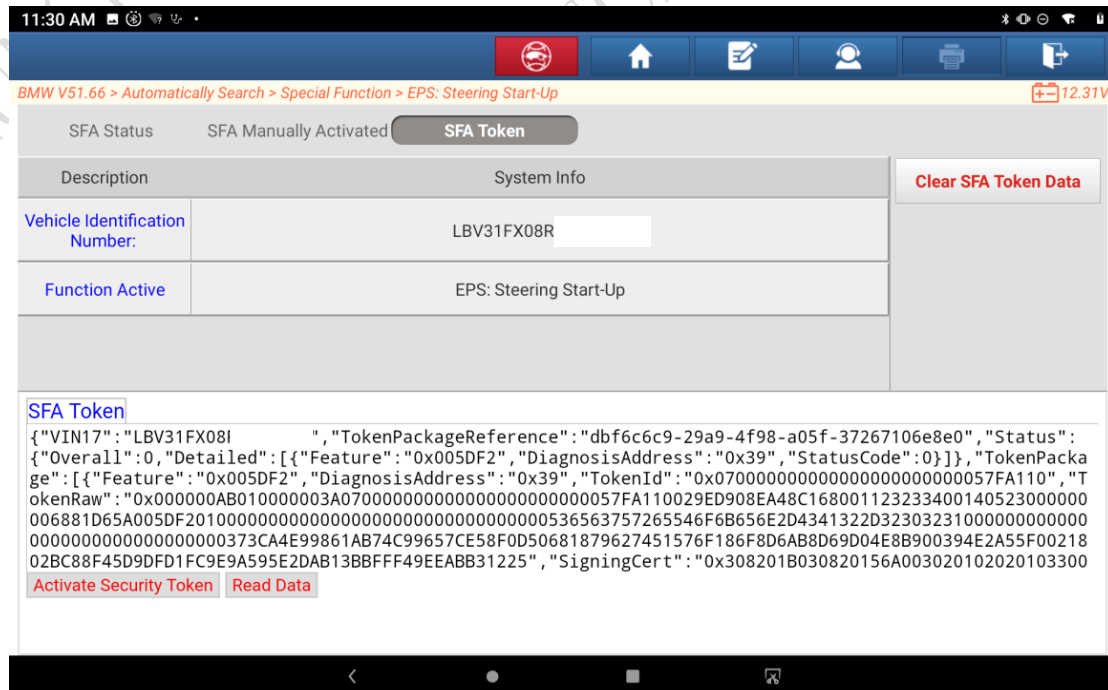
12.2 Alternatively, select [Text] from the [SFA Token Type] field, open the JSON file you just obtained, copy the file content, paste it into the [SFA Token] field, and click [Submit SFA Token].

SFA Data Share	
ID	LBV31FX08RM84
SFA Request Data Type	Text
SFA Request Data	<div style="display: flex; justify-content: space-between;"> Copy Select All </div> Vehicle Identification Number: : LBV31FX08RM Development Code: : U12 Function Active : EPS: Steering Start-Up Unlock Request Structure : <pre>{ "VIN17": "LBV31FX08F", "Host": "06:#24X=#5yhRiJ2BrcTS=9Ks01VQIE=#DESKTOP-GPCDOPP", "System": "TOOL:#1.00", "TokenRequests": [{"Type": "ecu-uid", "Features": [{"Feature": "0x005DF2",</pre>
SFA Token Type	Text
SFA Token	<div style="display: flex; justify-content: space-between;"> Paste Copy Select All Clear All </div> <pre>{ "VIN17": "LBV31FX07F", "TokenPackageReference": "dbf6c6c9-29a8-4f98-a05f-37267106e8e0", "Status": "Overall:0;Detailed:[{"Feature": "0x005DF2";DiagnosisAddress": "0x39";"StatusCode": 0}], "C": [{"Feature": "0x005DF2";DiagnosisAddress": "0x39";"TokenId": "0x0700000000000000000000057FA110";"TokenRaw": "0x000000AB01000003A070000000000000000000057FA110029ED908EA48C1680 D00000000000000000000000373CA4E98861AB74C98657CE58FD05681879627451576F186F8D6AB8D68D04E8B900394E2A55F0021802B2C8F45D9DFD1FC9E9A58E2DAB13B9FF44EEABE B544F8B6562D4341322D32303231310D300B06035504080C0450726F84310C300A060355040A0C03424D573020170D3730303130313030303130305A180F3939393931323331323333930305A303131 BCE3D020106082A8648CE3D030107034200046DA1D9011064550440194B97AEC6B3951247AB1F9F08EBED88DCEFA3C2EF782DCA5308944E520241AD8153B0A3189A0EA207AC6724021271CC937 AD78DAD3889C8523CB2CA01FE86822E085300E0603551D0F0101FF040403020780300A06082A8648CE3D040302034800304502207AF9276E2B7A5A1BE92B249DC5D1599C4DB35FFCAD3862D18E2 Date": "20250724064441Z"}]</pre> <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

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.



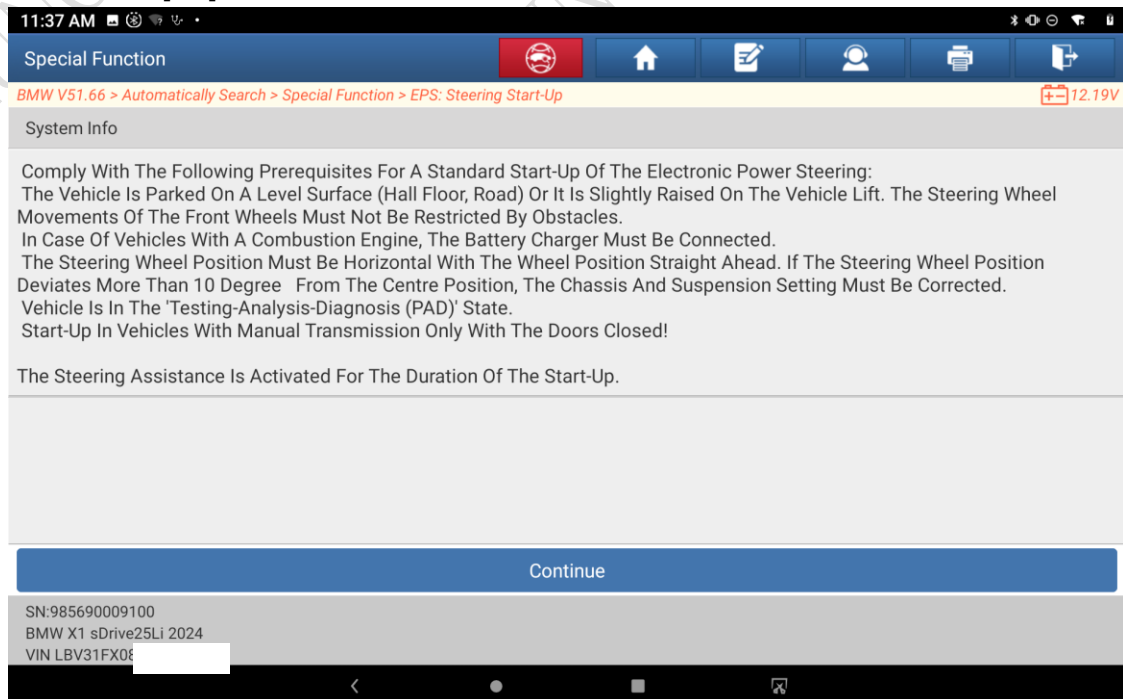
14.1 Obtain the data submitted on the webpage.



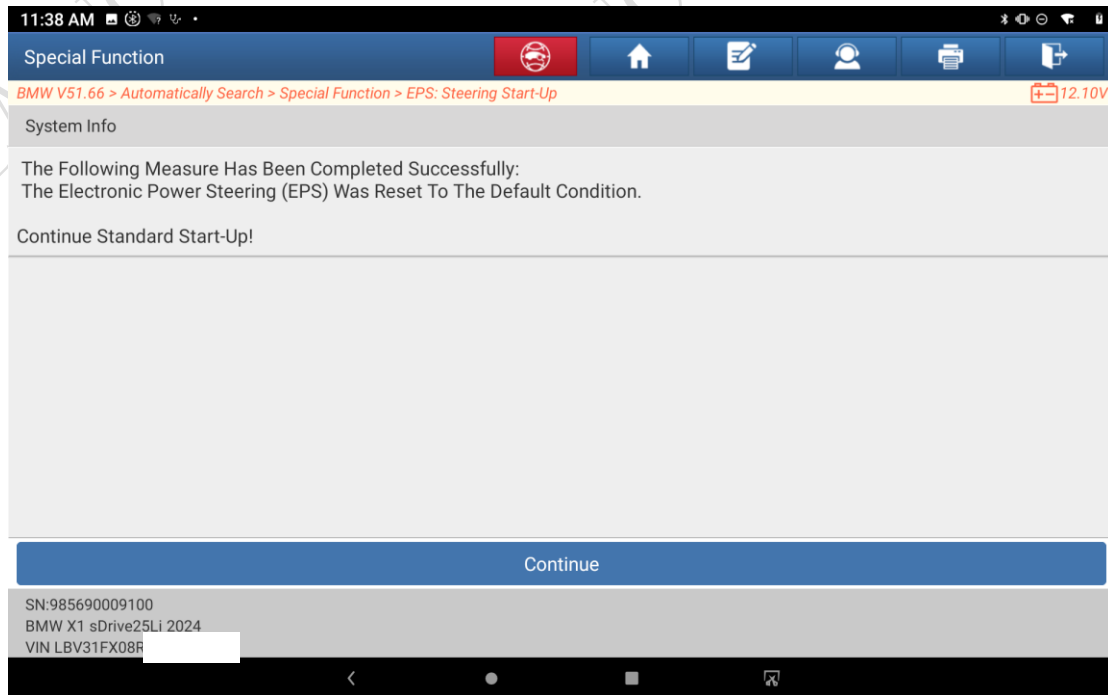
15. Click the [Activate Security Token] button, and the unlocking will be successful. Then, the corresponding EPS steering system start-up can be performed.



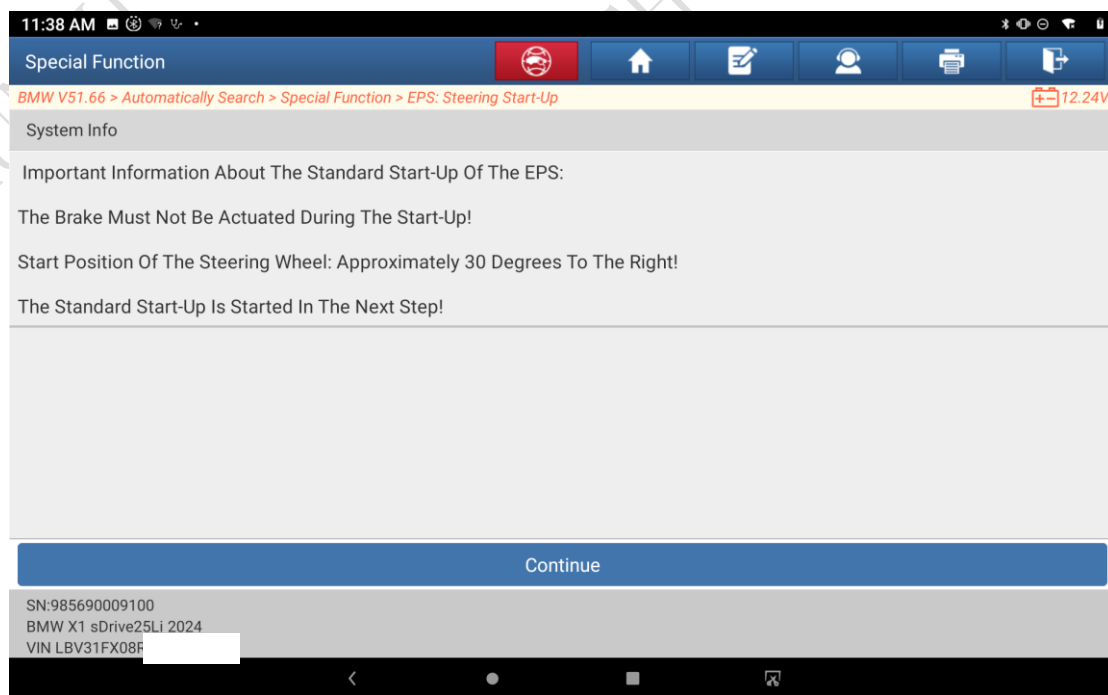
16. Select [F1].



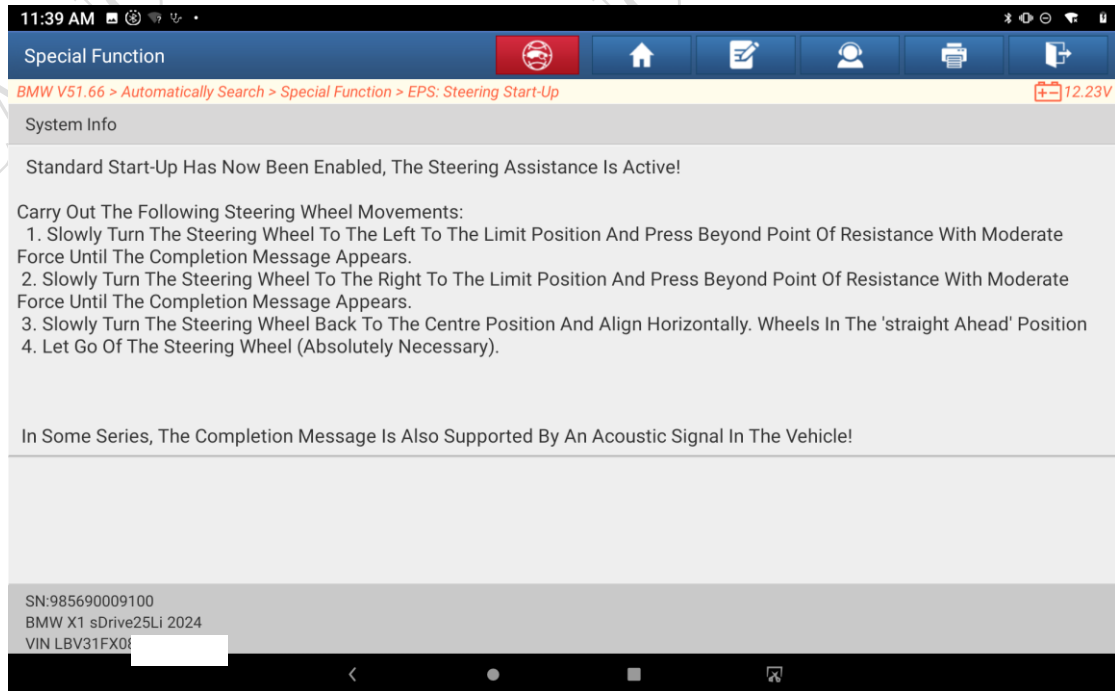
17. Click [Continue].



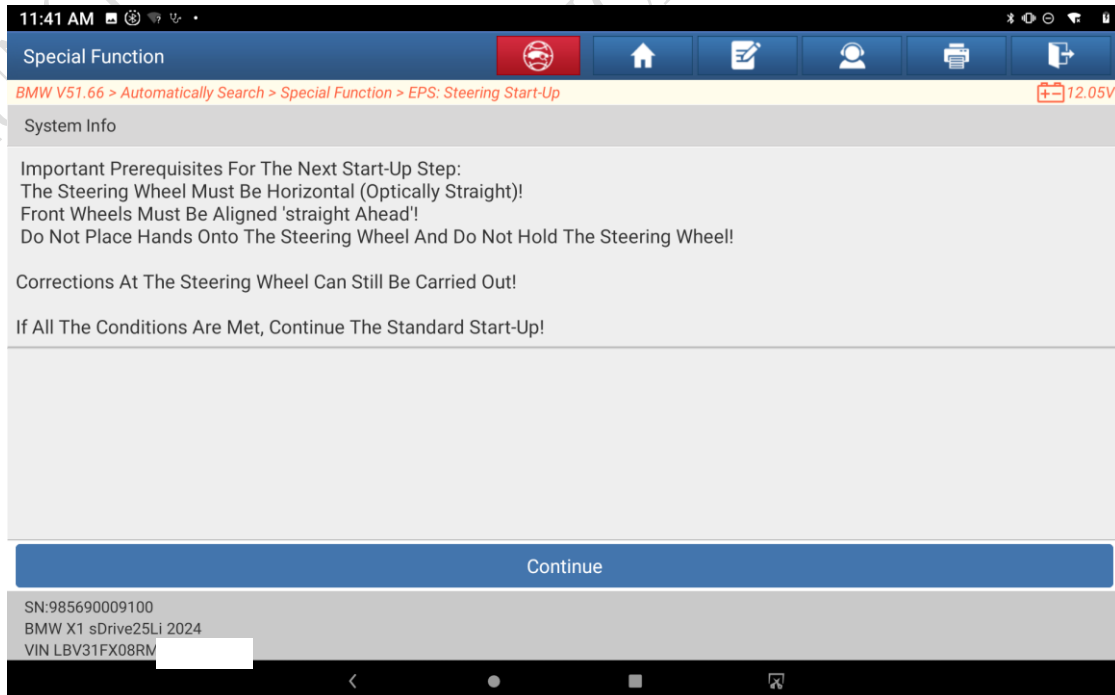
18. Click [Continue].



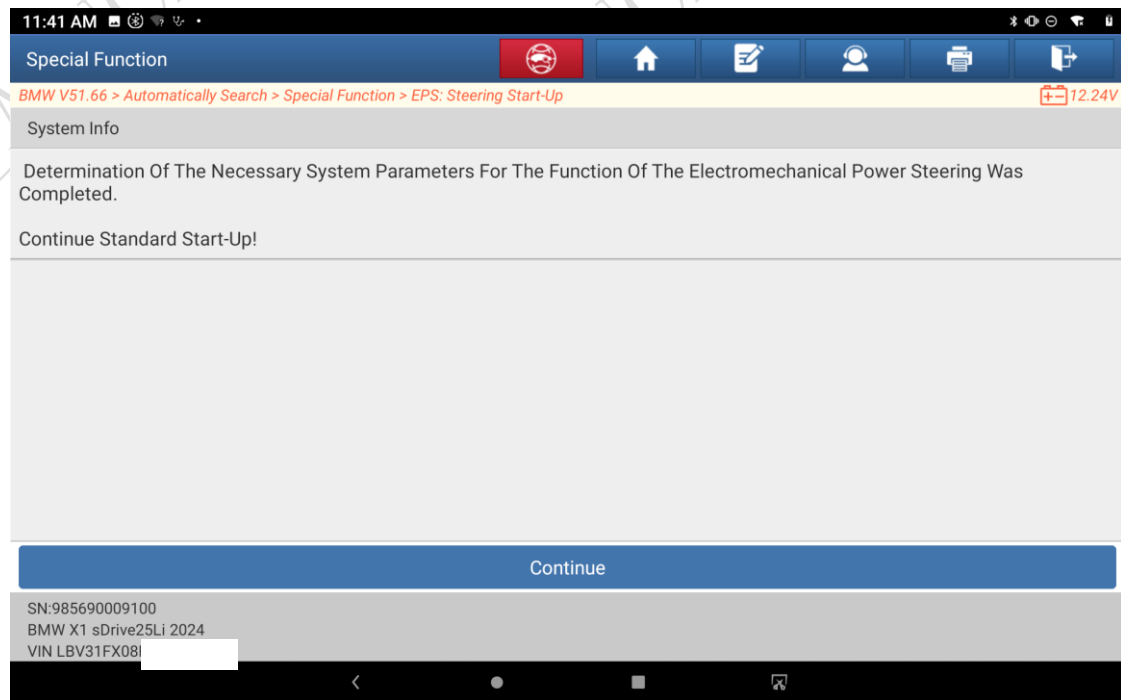
19. Operate as prompted and click [Continue].



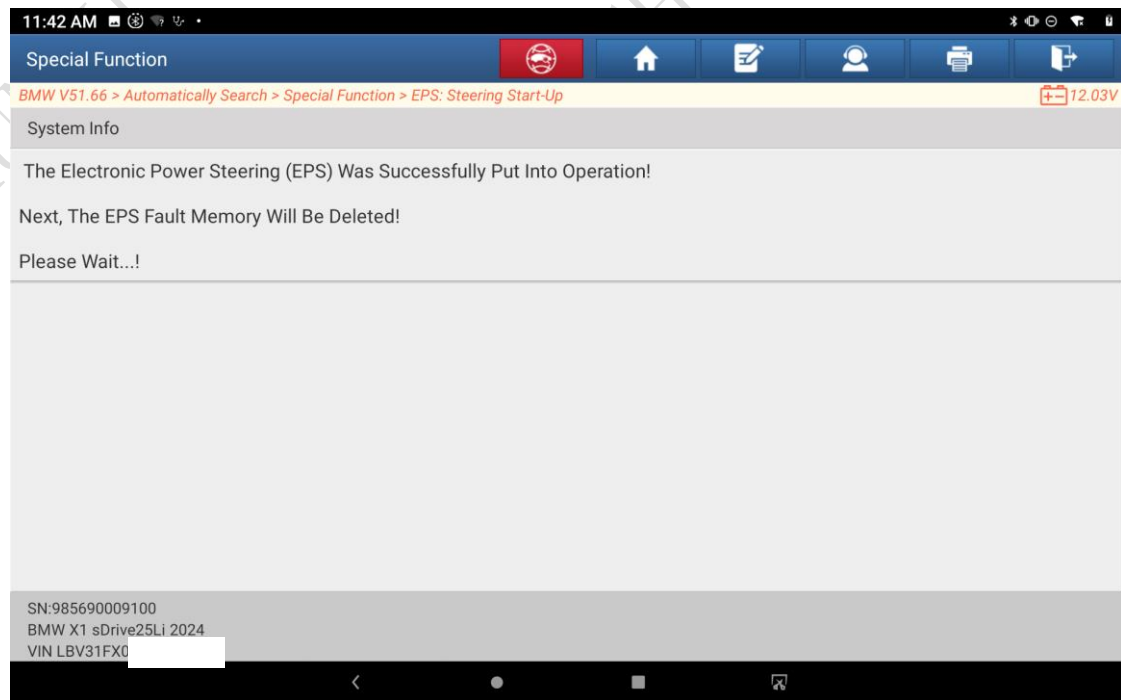
20. Turn the steering wheel according to the previous step prompt. It automatically jumps to the next step when the conditions are met.

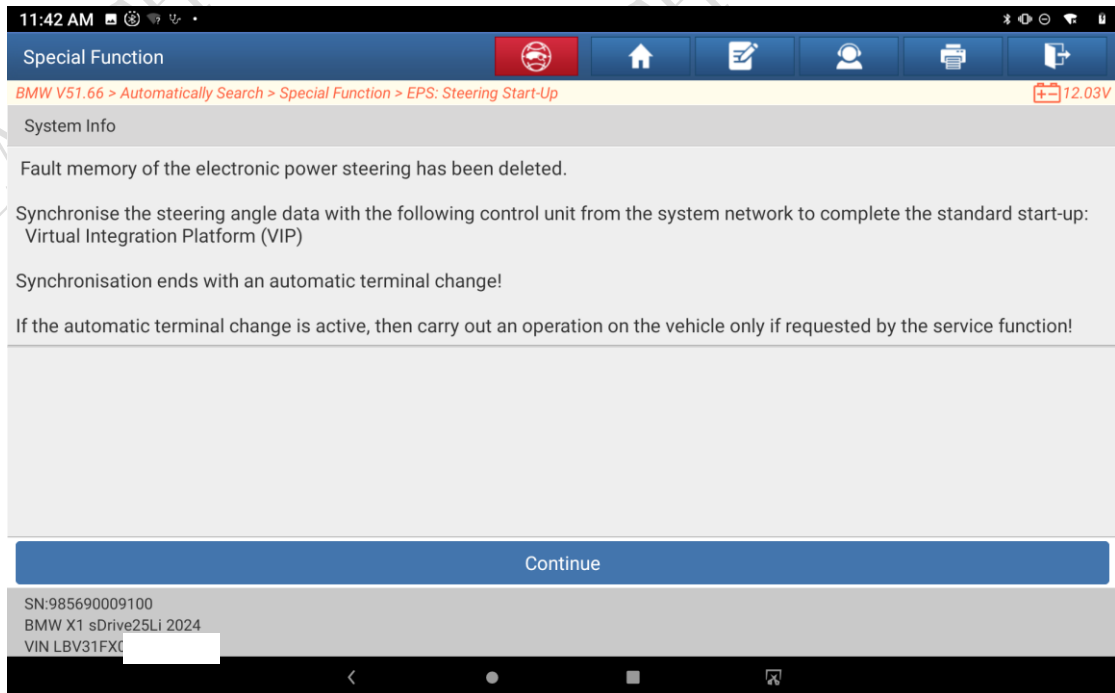


21. Operate as prompted and click [Continue].

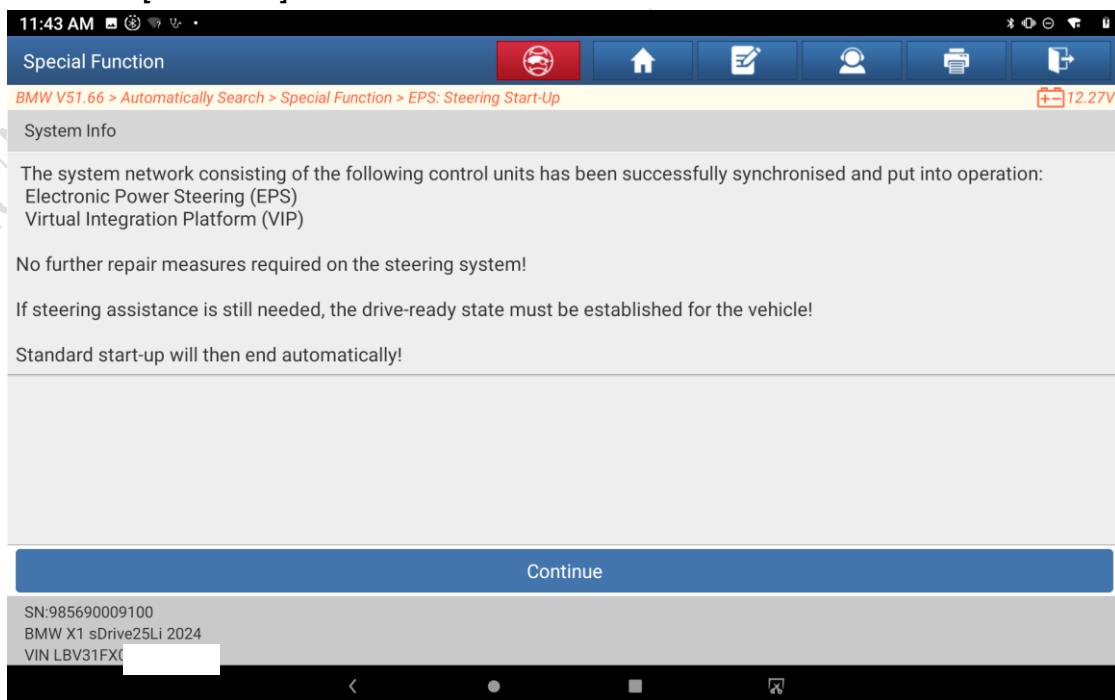


22. Click [Continue].





23. Click [Continue].



The function is completed.

[Statement]

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