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: X431PAD 5

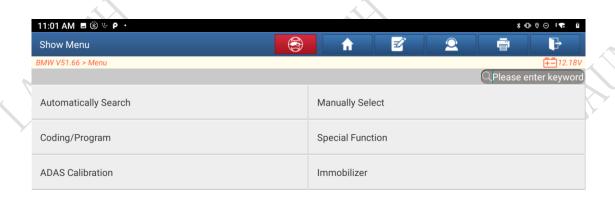
[Tested Model]

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.







SN:985690009100 BMW X1 sDrive25Li 2024 VIN LBV31FX08RM 3. Choose [NEXT].



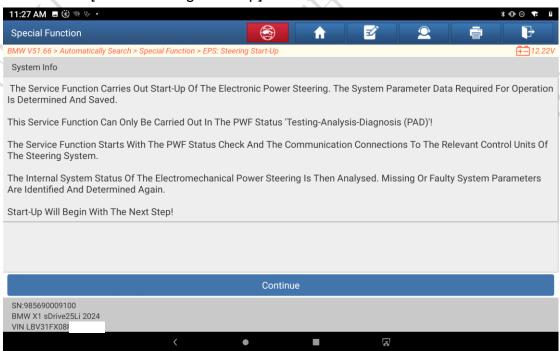
4. Choose [Special Function].

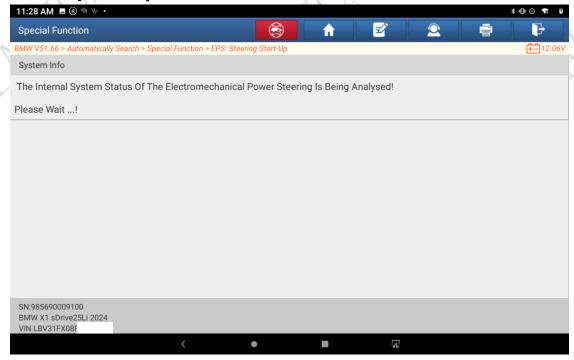


5. Choose [Chassis And Suspension].

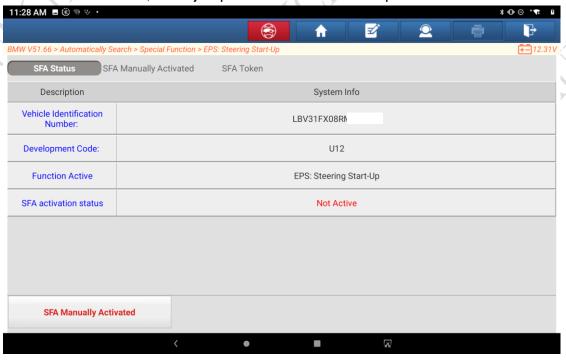


6. Choose [EPS: Steering Start-Up].

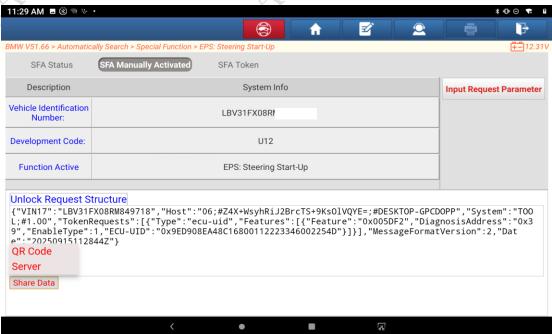




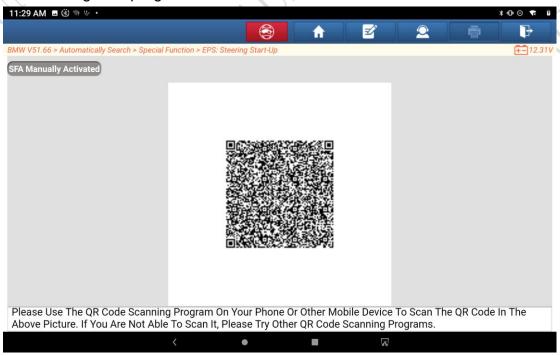
8. At this point, the software will read the current SFA status of the function. If it is not activated, it will jump to the manual SFA import interface.



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.

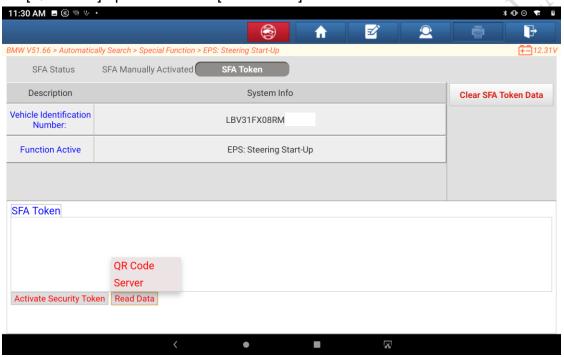
Vehicle Identification Number: : LBV31FX 08RM

Development Code: : U12

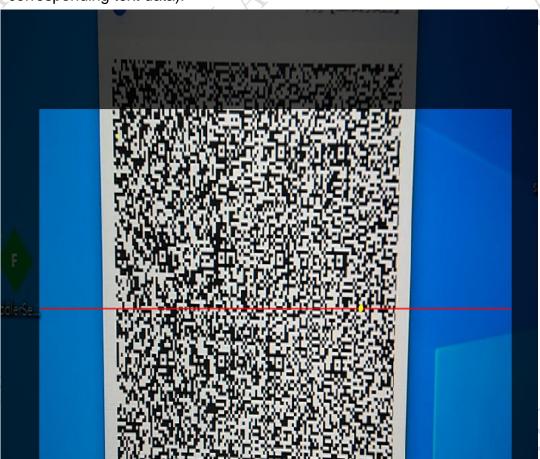
Function Active: EPS: Steering Start-Up
Unlock Request Structure:

{"VIN17":"LBV31FX08RM ","Host":"
06;#Z4X+WsyhRiJ2BrcTS+9KsOIVQYE=;#D
ESKTOPGPCDOPP","System":"TOOL;#1.00","Token
Requests":[{"Type":"ecu-uid","Features":
[{"Feature":"0x005DF2","DiagnosisAddress
":"0x39","EnableType":1,"ECUUID":"0x9ED908EA48C168001122233460
02254D"}]}],"MessageFormatVersion":2,"D
ate":"20250915112844Z"}

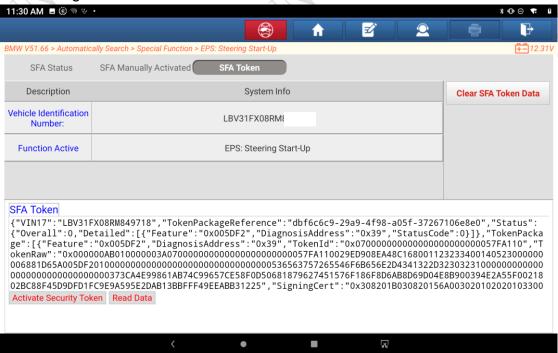
12. Click the [SFA Token] button on the diagnostic device, and then click the [QR Code] option from the [Read Data] button.



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).



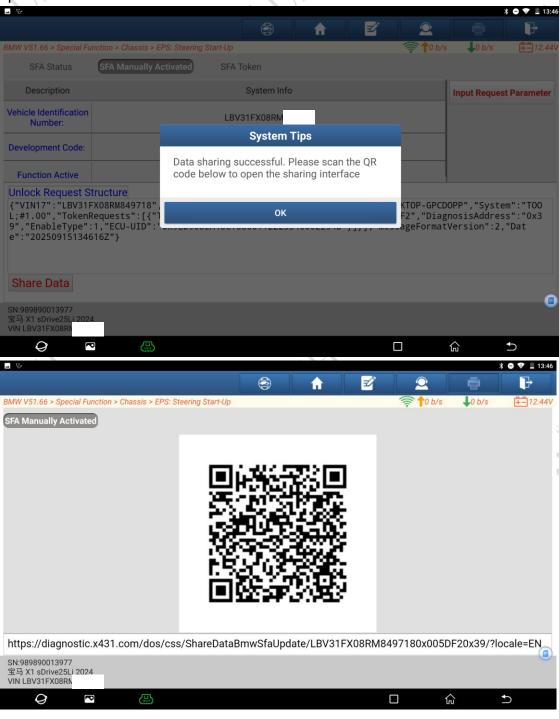
14. After the scan is completed, the SFA token data will be obtained, as shown in the figure below.



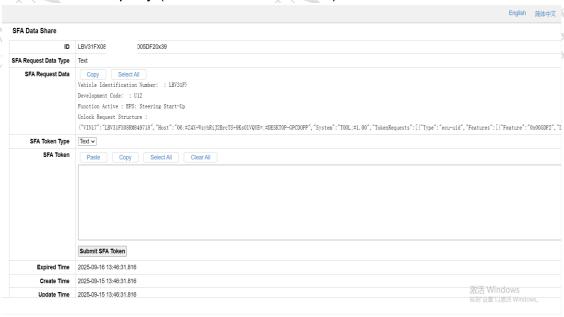
9.1 The second sharing method: server sharing. Click [Server].



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.

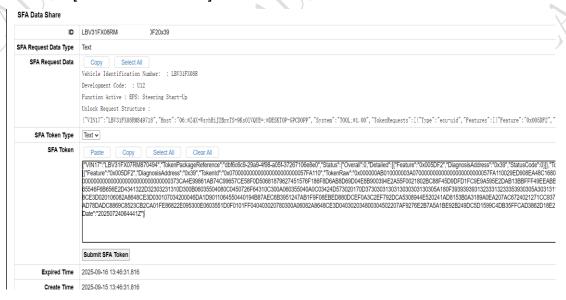


12.1 After the third-party seller completes the calculation, they will provide you with a JSON file. On the webpage interface, select [File] from the [SFA Token Type] field, import the file you just obtained, and click [Submit SFA Token].

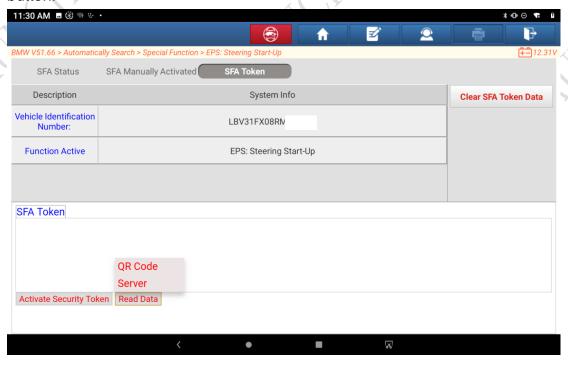
LBV31FX08F 05DF20x39
Text
Copy Select All Vehicle Identification Number: : LBV31FXO85 Development Code: : U12 Function Active: EPS: Steering Start-Up Unlock Request Structure: : ["TIX17":"LBV31FXO8RMS49718", "Host": "06:EZ4X-WsyhRijZBrcIS+9K501VQVE-:=DESKIOP-GPCDOPP", "System": "TOOC:=1.00", "TokenRequests": [("Type":"ecu-uid", "Features": [("Feature":"0x005DP2", "D
File v
C:/fakepathiSecurityTokenRes_LBV31FX07R Submit SFA Token
2025-09-16 13:46:31.816
2025-09-15 13:46:31.816
2025-09-15 13:46:31.816



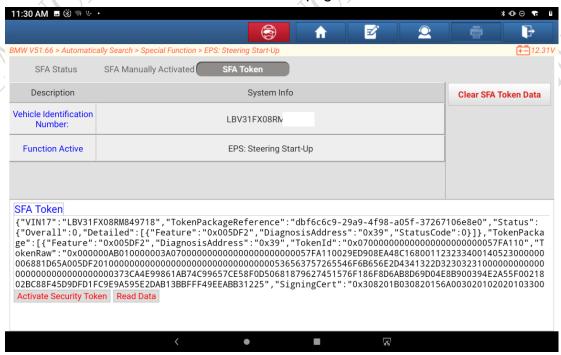
12.2 Alternatively, select [Text] from the [SFA Token Type] field, open the JSON file you just obtained, copy the file content, paste it into the [SFA Token] field, and click [Submit SFA Token].



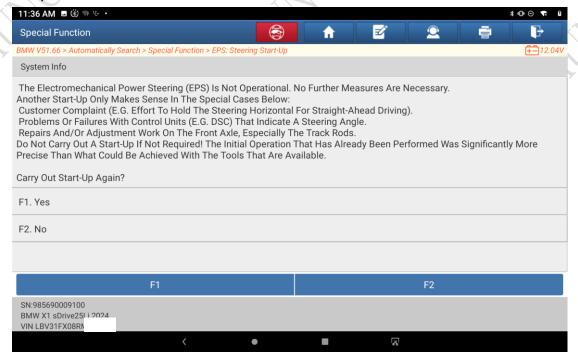
13.1 After the data submission is completed, return to the diagnostic software interface, click [SFA Token], and click the [Server] option from the [Read Data] button.



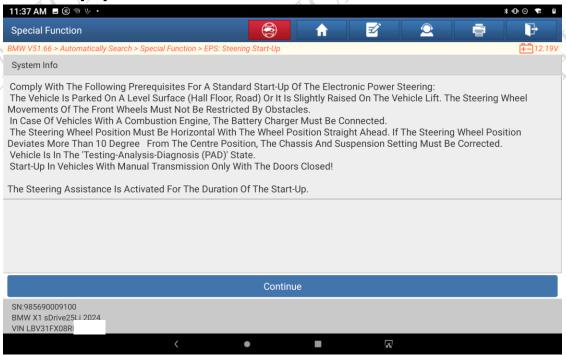
14.1 Obtain the data submitted on the webpage.



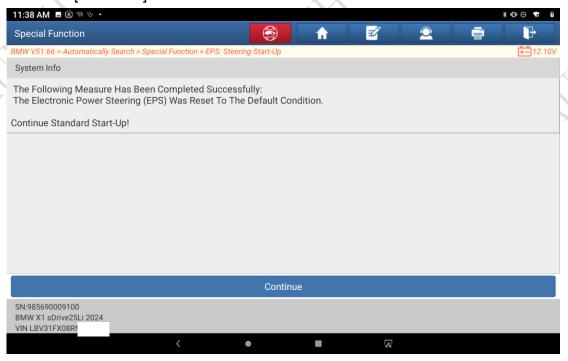
15. Click the [Activate Security Token] button, and the unlocking will be successful. Then, the corresponding EPS steering system start-up can be performed.

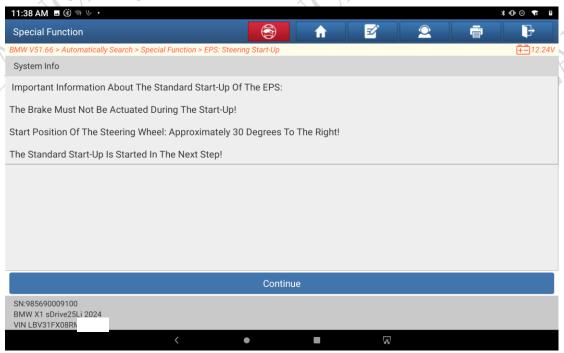


16. Select [F1].

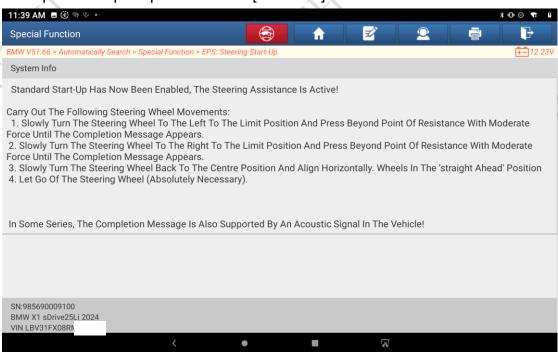


17. Click [Continue].

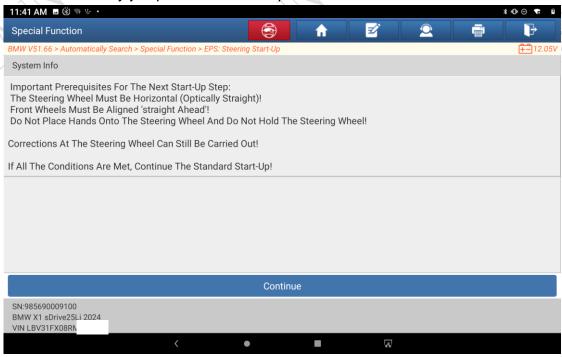




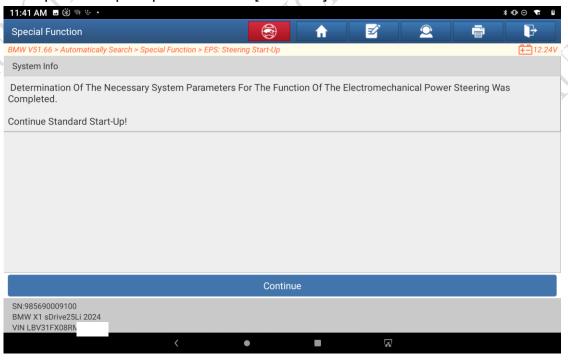
19. Operate as prompted and click [Continue].

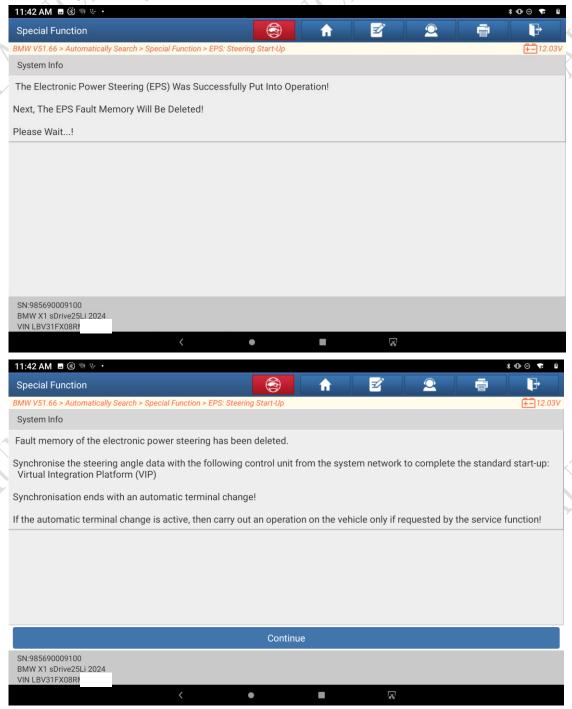


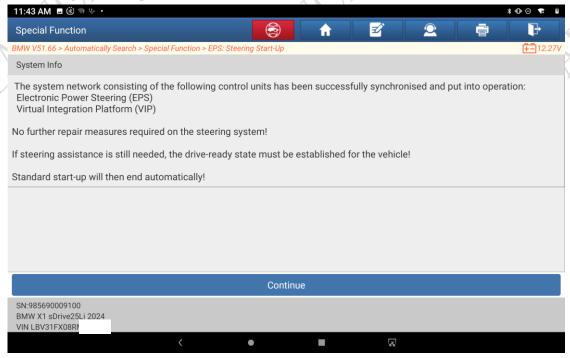
20. Turn the steering wheel according to the previous step prompt. It automatically jumps to the next step when the conditions are met.



21. Operate as prompted and click [Continue].







The function is completed.

[Statement]

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