

SZL: Steering Angle Sensor Adjustment

Tested Model: BMW 523Li

Function Description:

This function is used to calibrate the straight-ahead position of the front wheels and the centered position of the steering wheel as the 0° reference point for the steering angle. It is typically performed in the following situations:

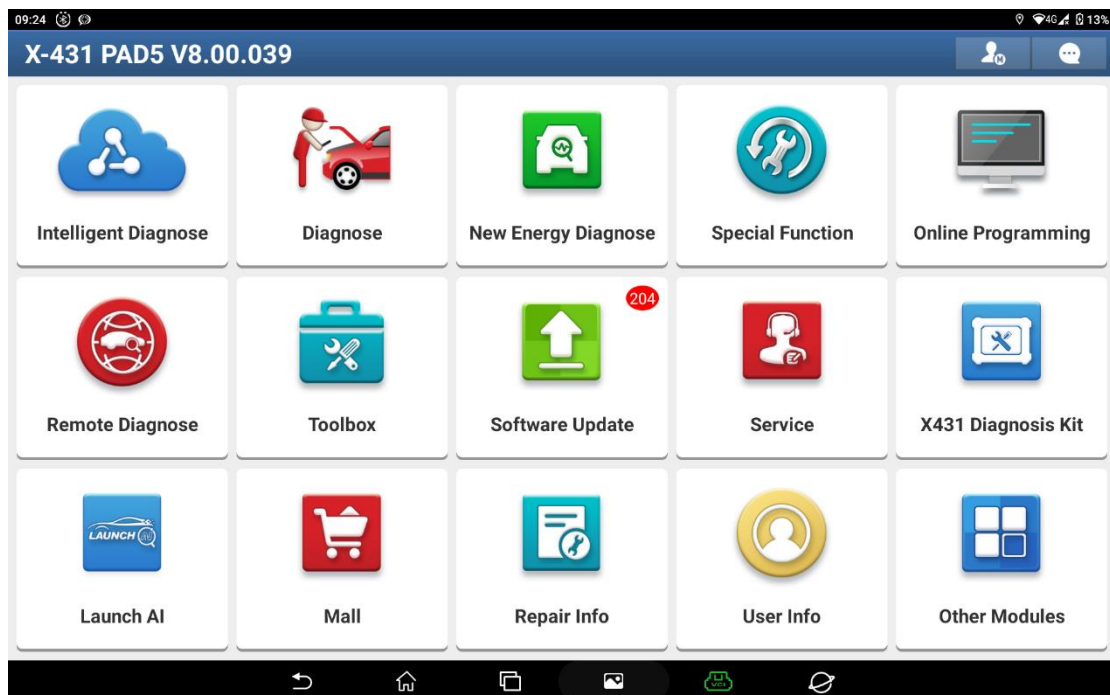
1. After replacing or repairing the SZL, DSC, or steering mechanism; after removing/installing the steering wheel or steering column; or after performing a four-wheel alignment.
2. When the steering system reports relevant fault codes (such as "Not matched" or "Signal implausible") but there are no mechanical faults.

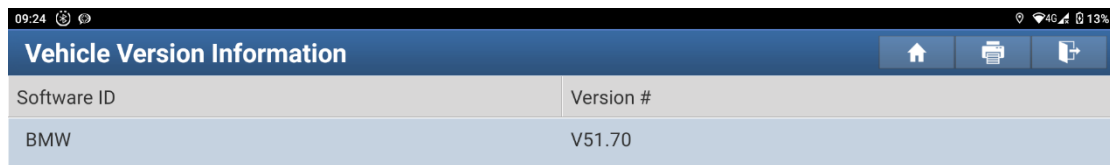
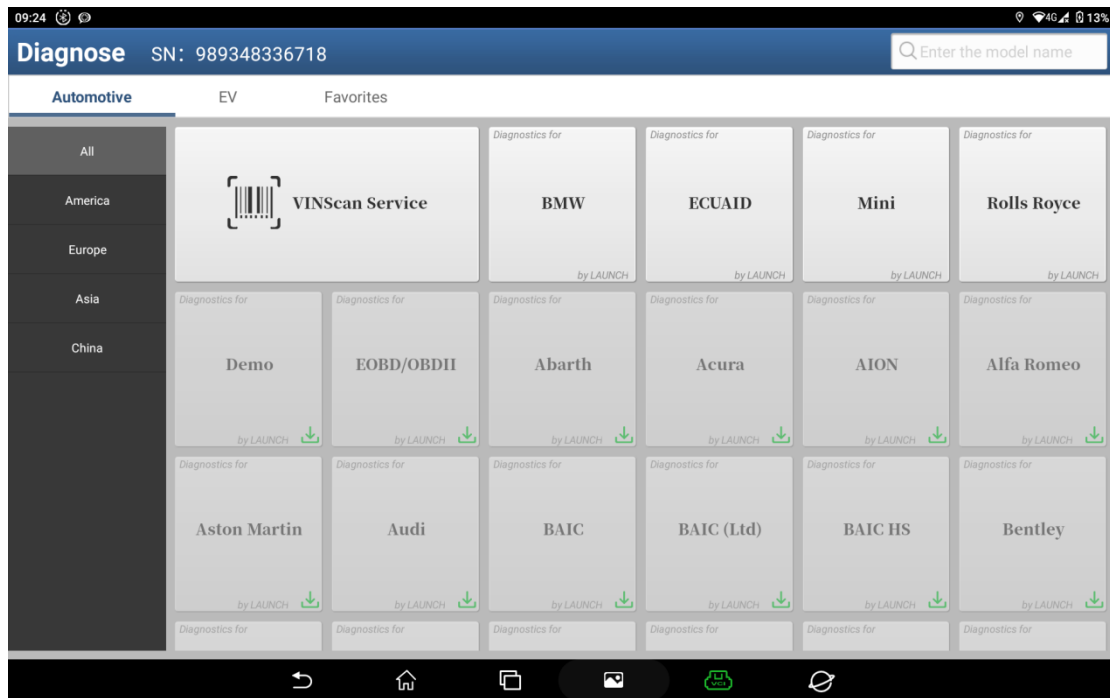
Execution Conditions:

- The vehicle is parked on a level surface with the front wheels in the straight-ahead position (0°).
- Ignition switch ON and engine OFF

Procedure:

1. On a PAD 5, choose [Diagnose], and then choose [BMW] for testing.





BMW Diagnostic Software V51.70

Software Instruction

Summary For The Covered ECU:

Engine, Automatic Transmission, Anti-lock Brake, Airbag, A/C, Dashboard, Electronic Throttle Rearview Mirror Rear Seat Memory, Anti-theft, Cruise, Center Control Module, Parking Sensor, and Light systems, etc.

Summary For The Covered Basic Function:

- Reading ECU information
- Reading DTCs
- Clearing DTCs
- Reading vehicle running data
- Vehicle component operation test

Summary For The Covered Special Function:

- Recoding after replacing ECU(RECODING)
- Change ECU setting information
- Delete transportation mode
- Functions of key test
- Display status of all keys
- Disable/enable key



2. Choose [Automatically Search].

09:24 100% 4G 13%

Show Menu     

BMW V51.70 > Menu 12.27V

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

SN:989348336718
BMW

3. Confirm the vehicle information and click "NEXT".

09:25 100% 4G 13%

Information     

BMW V51.70 > Automatically Search 12.26V

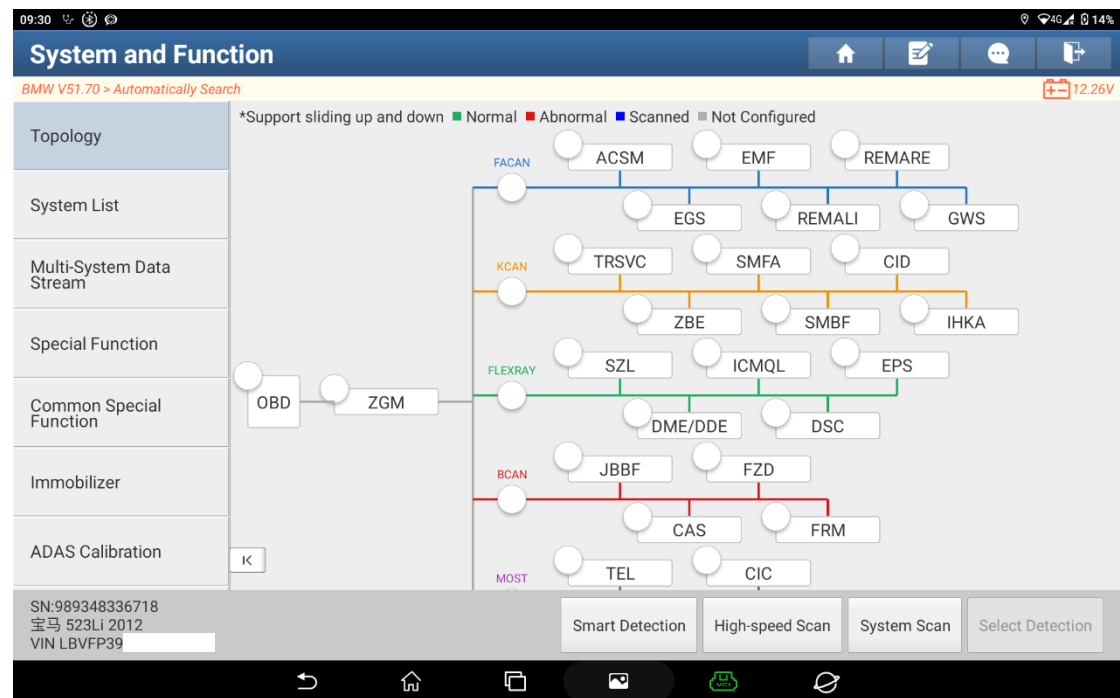
Vehicle Information	Configuration
Vehicle Identification Number:	LBVFP3900[REDACTED]
Development Code:	F18
Series:	5'
Sales Designation:	523Li
Gearbox:	AUT
Steering:	left-hand drive
Construction Date:	2011.09
Country:	CHN

NEXT

SN:989348336718
宝马 523Li 2012
VIN LBVFP39[REDACTED]

4. Choose [Common Special Function].



5. Choose [Steering Angle Reset].

09:30 12.26V

Show Menu

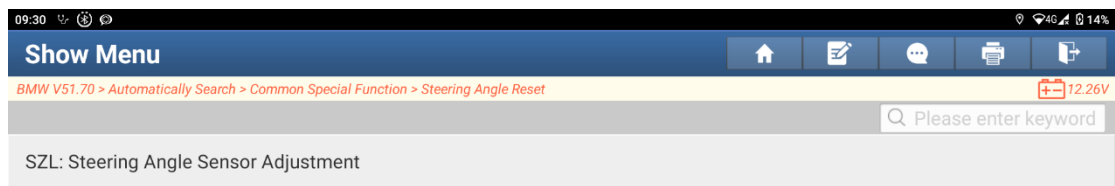
BMW V51.70 > Automatically Search > Common Special Function

Please enter keyword

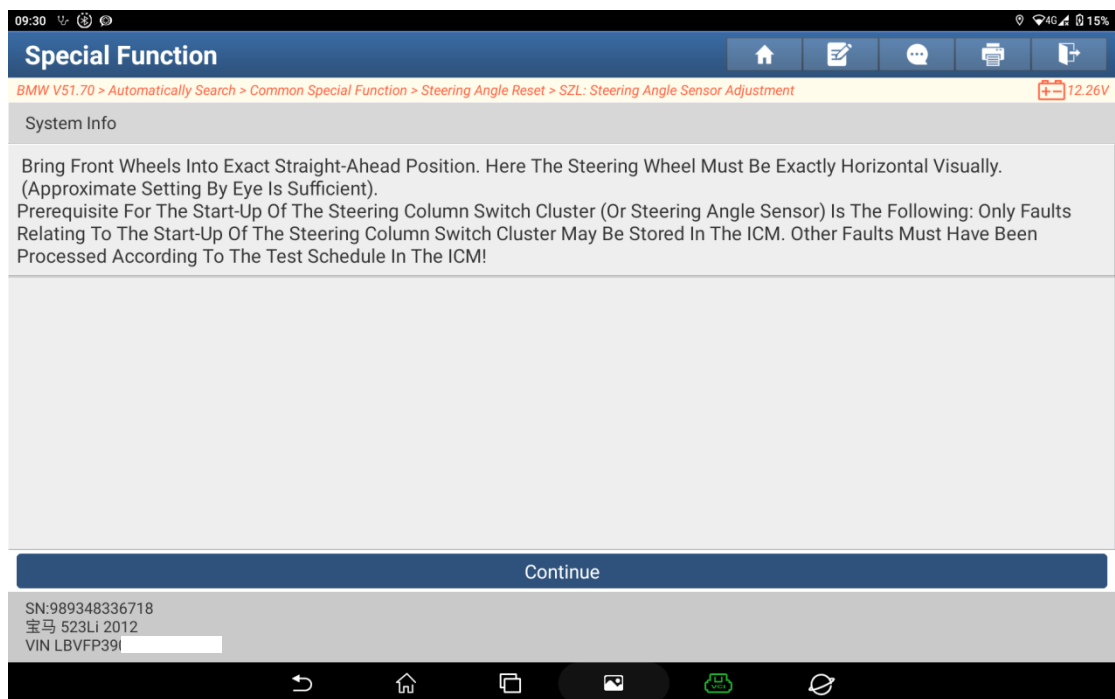
Oil Maintenance Reset	Brake Pad Change (Brake Reset)
Steering Angle Reset	Battery Matching
ABS (Anti-Lock Brake System) Bleeding	Throttle Learning
Air Level Calibration	Gearbox Relearn
Sunroof Reset	Adaptive Front Lighting
Windows Calibration	Seat Occupancy Calibration
Coolant Bleed	AC System Relearn/Initialization
Intelligent Cruise Control System	Battery Coolant Replacement

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宝马 523Li 2012
VIN LBVFP39

6. Choose [SZL: Steering Angle Sensor Adjustment].



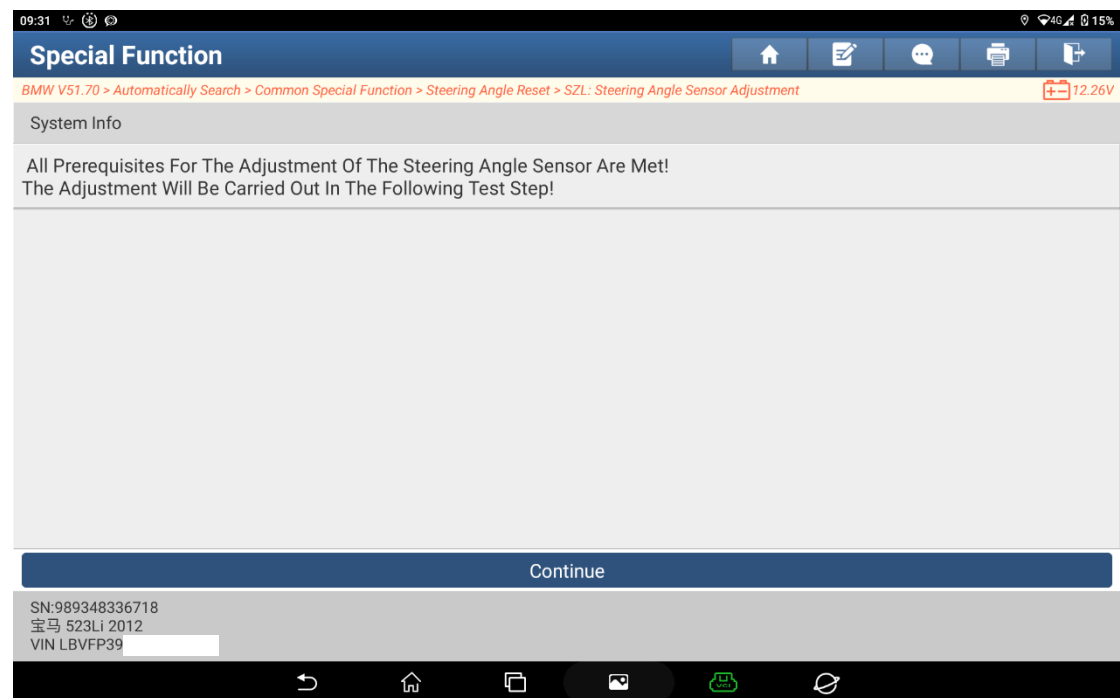
7. Confirm that the conditions are met. Click "Continue".



8. Click "Continue".



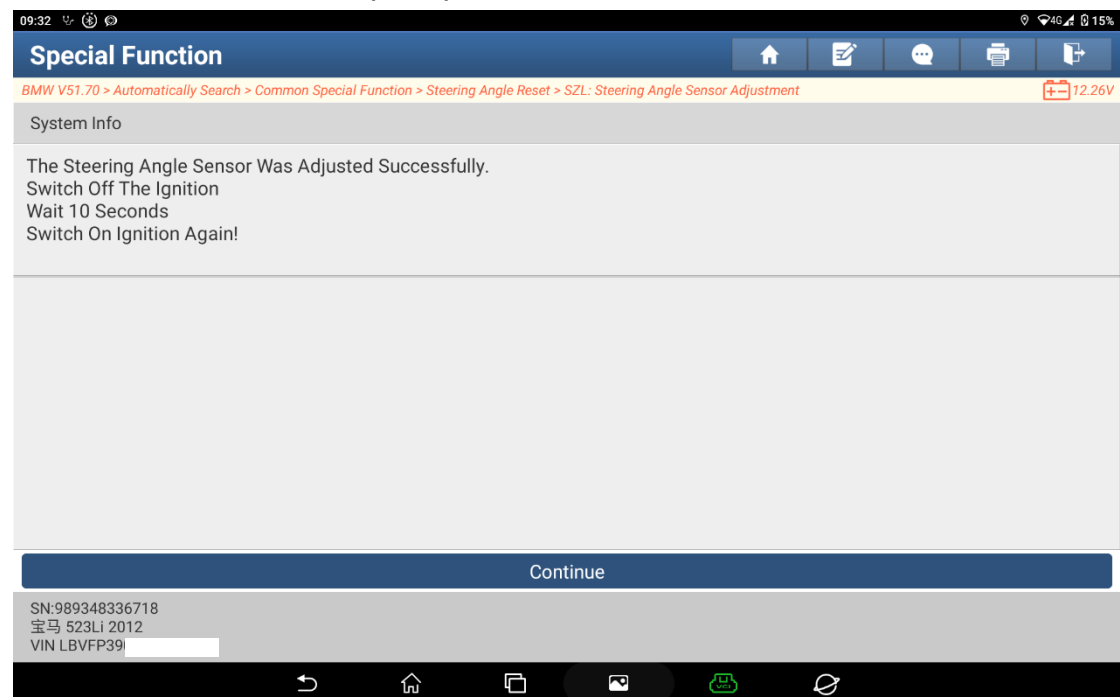
9. Click "Continue".



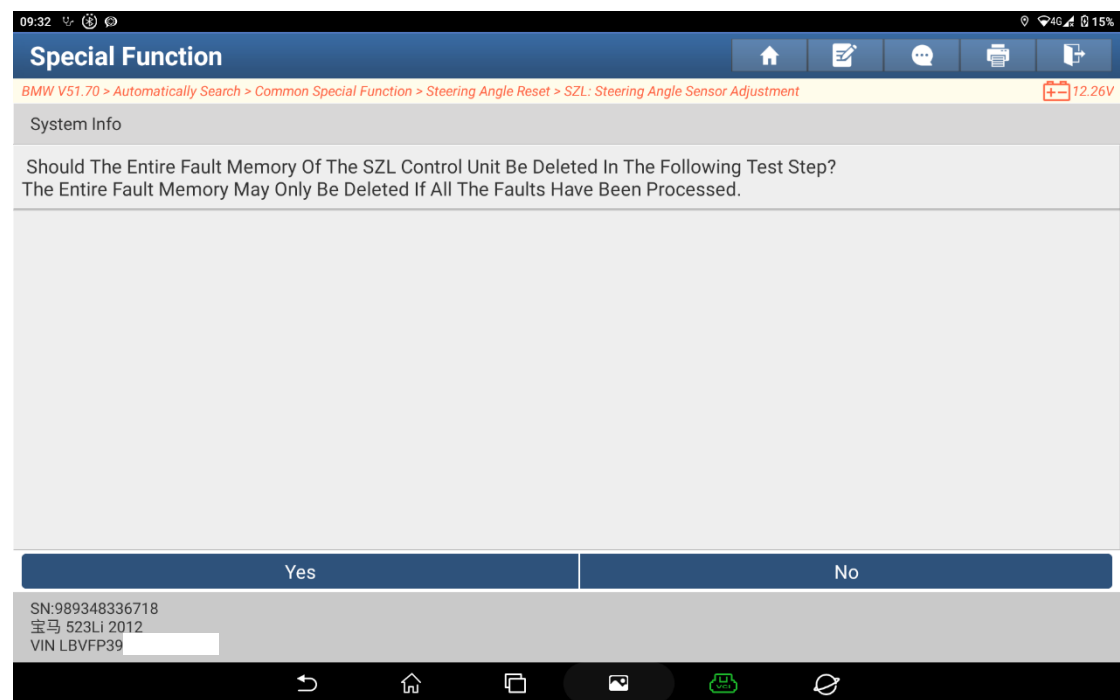
10. Choose "Yes" to perform the adjustment.



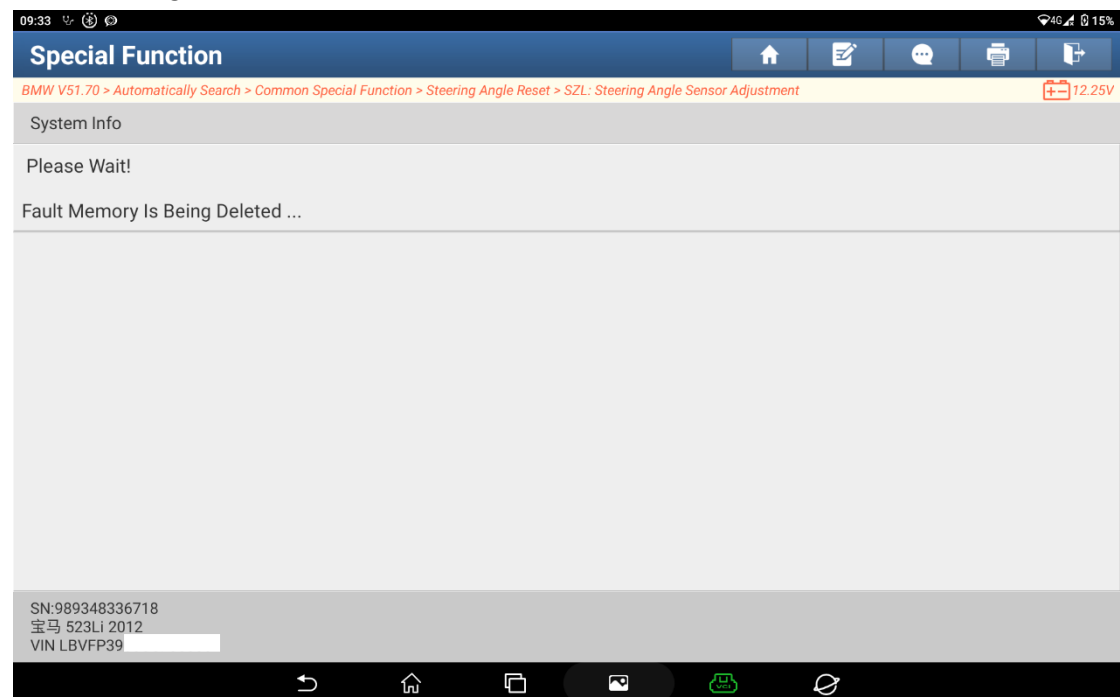
11. Follow the on-screen prompts and then click "Continue".



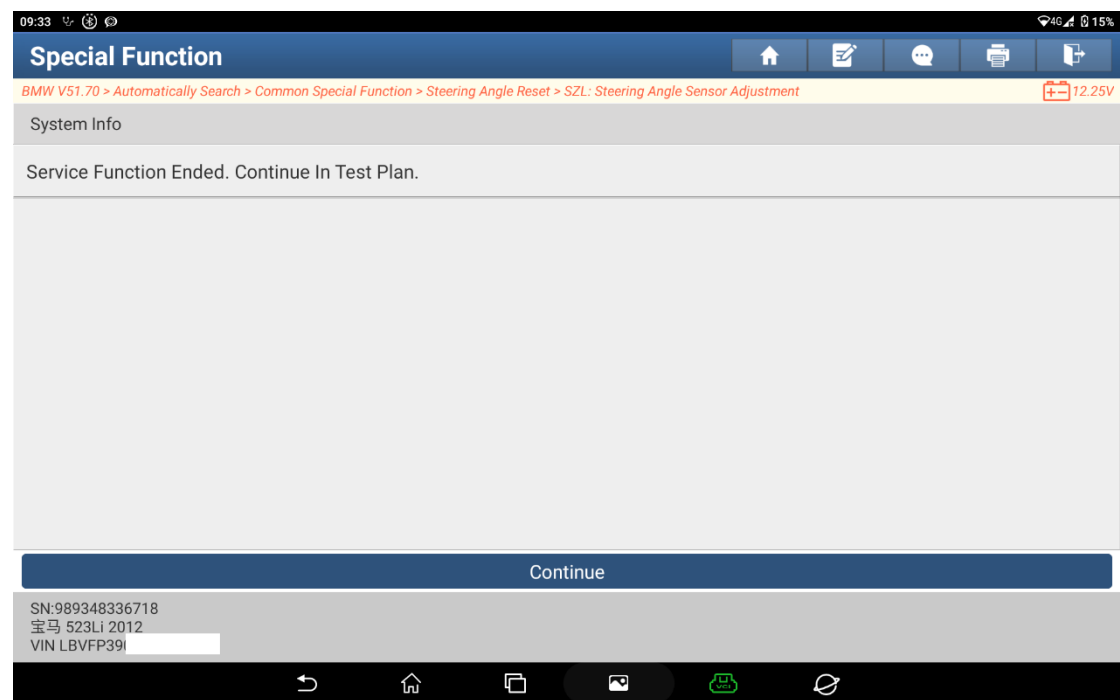
12. Choose "Yes".



13. Deleting fault codes...Please wait.



14. Function ended. Click "Continue" to exit.



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