

Touareg 2010 01-SCR System

Functions

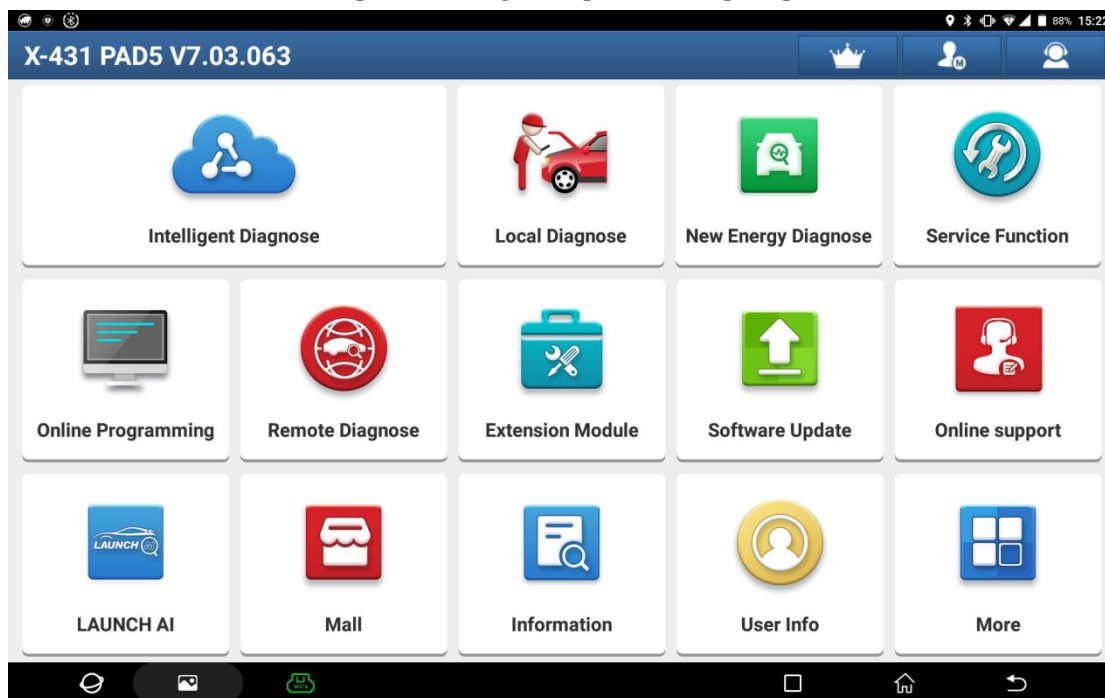
Tested Model: Touareg 2010 2018(J)

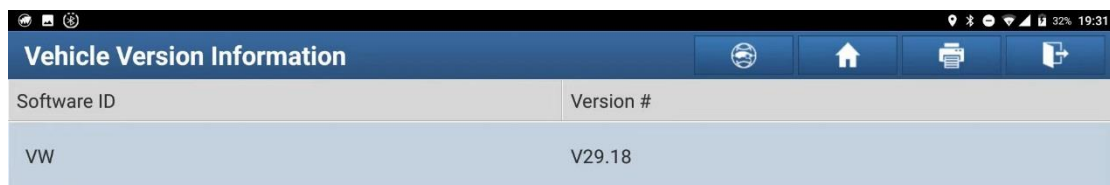
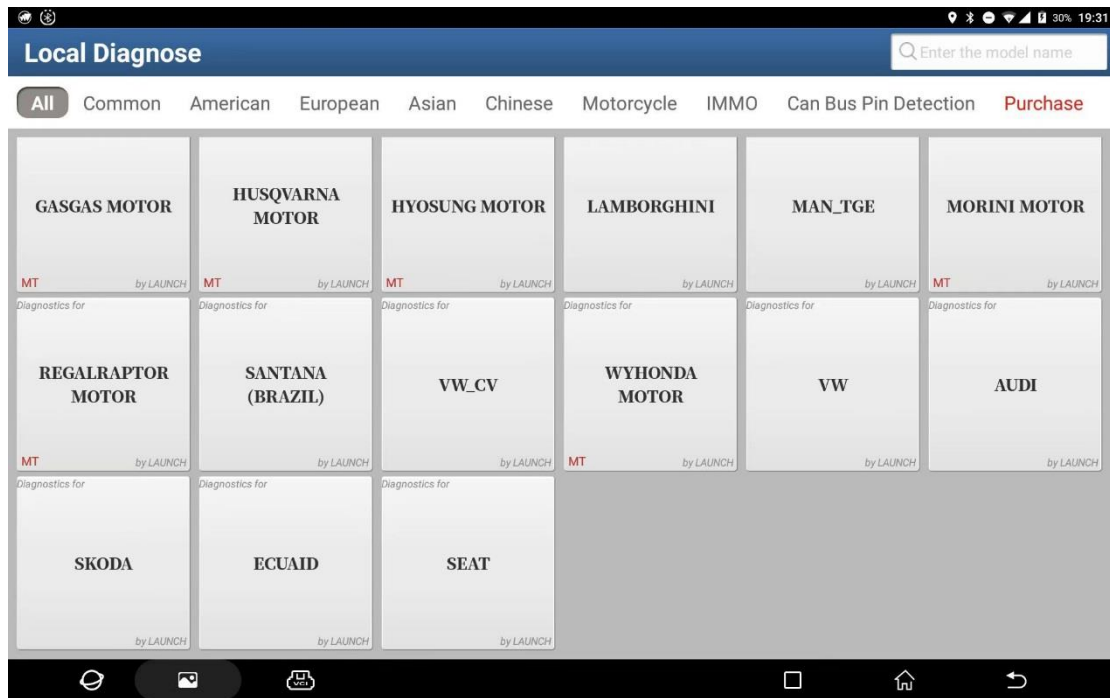
Function Description:

This function provides multiple modes, including Reset The Start Block, Set The Reduction Agent Fill Level To Full, Reset SCR System Adaptation Values, Check The Reduction Agent System For Proper Seal, Empty The Reducing Agent Conduit, Dosage Test

Procedure:

1. On a PAD 5, choose [Local Diagnose], choose [VW], and then click "OK".





VW diagnostic software V29.18

Software Instruction

Summary for the covered ECU:

01 engine, 02 automatic transmission, 03 brake, 08 A/C & Heating, 25 anti-theft, 47 audio, 15 airbag, 16 steering, 44 power assisted steering, 35 center door lock, 17 dashboard, 19 gateway data bus, 26 electromotive trap door control, 29 vehicle left light control, 39 vehicle right light control, 37 navigation, 45 internal monitor, 46 central module, 61 battery control, 76 parking auxiliary, 09 electrical center electronic device, 55 headlight range control, 56 radio, 53 parking brake, etc systems.

Summary for the covered basic function:

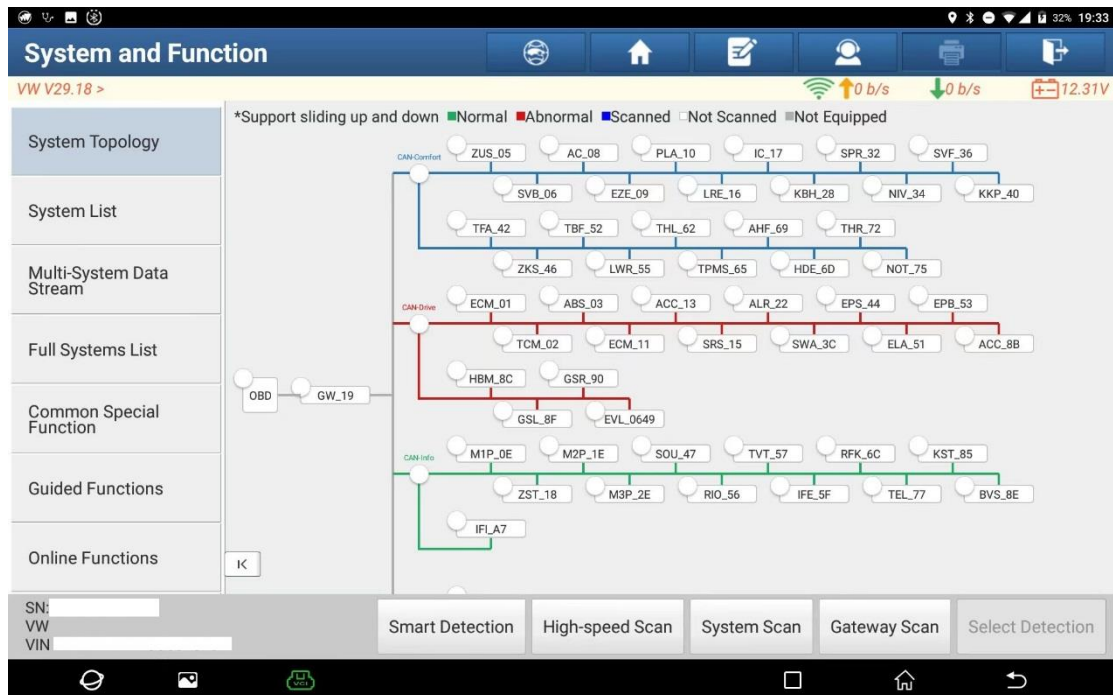
- Reading ECU information
- Reading DTCs
- Clearing DTCs
- Reading vehicle running data
- Vehicle component operation test

Summary for the covered special function:

- Recoding after replacing ECU
- Brake block replace
- Service/fuel light reset and setup
- Driving mileage service period reset and setup



- Choose [Guided Functions] to automatically identify the VIN. Then, choose the vehicle model, year, model, and engine type. For this test, choose [7P – Touareg 2010 >], [2018 (J)], [Sedan], and [CVWA 3.0l TDI-CR / 150kW]. Then, click "Start".



The screenshot displays the 'Vehicle Basic Characteristics' interface. At the top, it says 'VW V29.18 > Guided Functions'. Below this, a note states: 'Vehicle Identification Mode (After Switching Modes, Options On The Interface Displayed Will Be Reset)'. The interface contains several input fields: a dropdown menu set to 'AUTO', a text field for 'VIN (Vehicle Identification Number, Must Be 17 Digits)', a dropdown menu for 'Manufacturer' set to 'VW', and a text field for 'Vehicle Type'. At the bottom, there are two large blue buttons: 'Start' and 'CANCEL'. Below these buttons are input fields for SN, VW, and VIN.

Vehicle Basic Characteristics

VW V29.18 > Guided Functions

7P - Touareg 2010 >

Year

2018 (J)

Model

Sedan

Engine Type

CVWA 3.0l TDI-CR / 150kW

Start CANCEL

SN:
VW
VIN

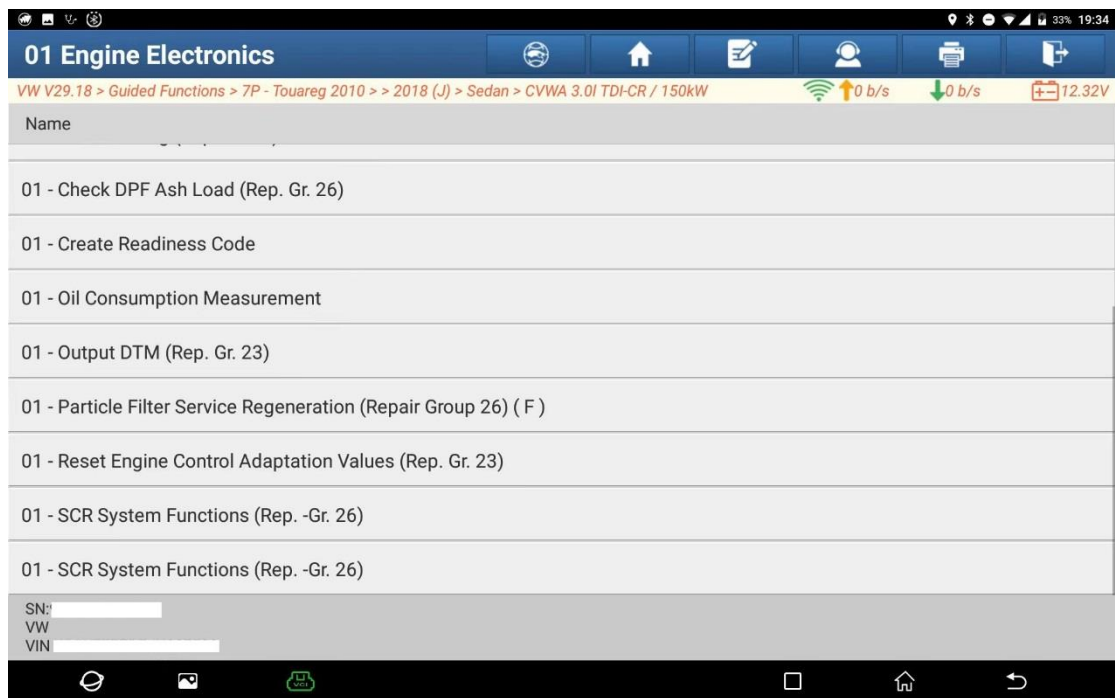
3. Choose [01 Engine Electronics] and click [Guided Functions].

System List Special Functions Vehicle Detection Online Functions Fault List Display Setting

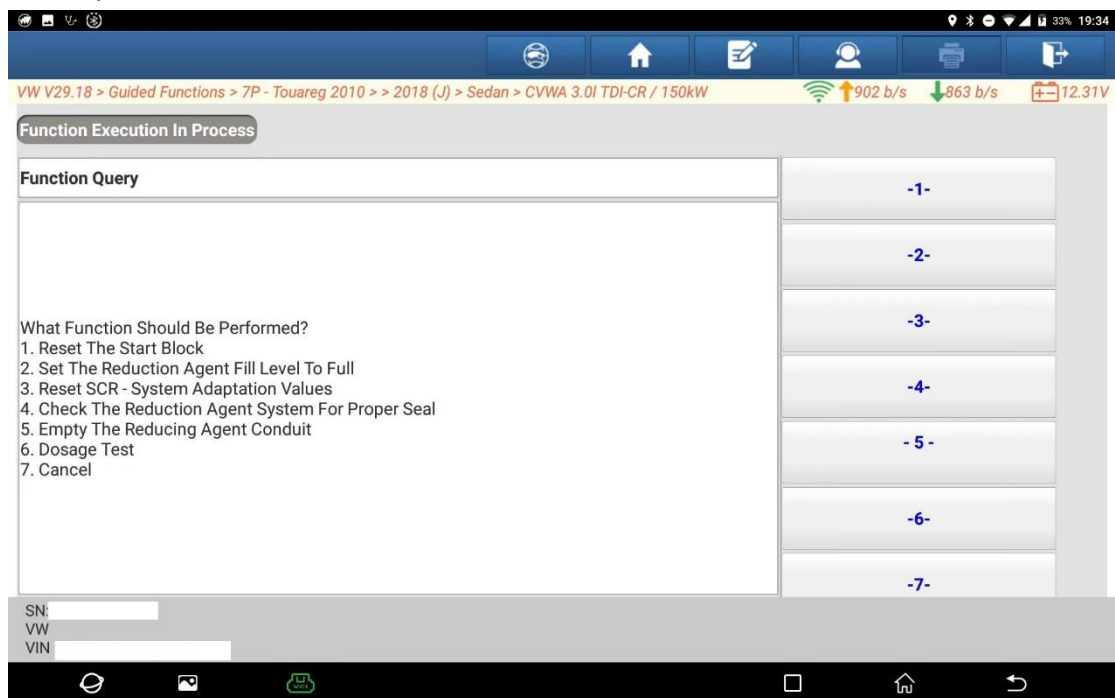
Number Of Dtcs	System Name	Control Module OBD
---	01 Engine Electronics	Identify Model
---	02 Transmission Electronics	Guided Functions
---	03 Brake Electronics	
---	05 Access/Start Authorization	
---	06 Seat Adjustment, Passenger's Side	
---	08 Climate Control Module	
---	09 Electronic Central Electric	

SN:
VW
VIN

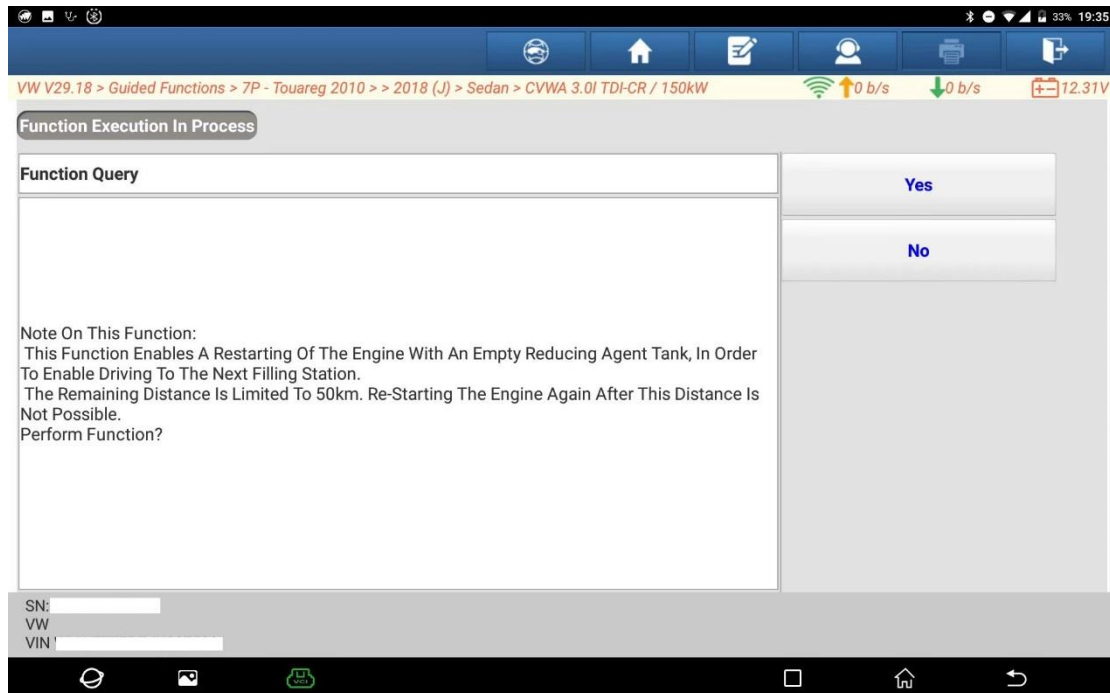
4. Choose [01 - SCR System Functions (Rep.-Gr.26)].



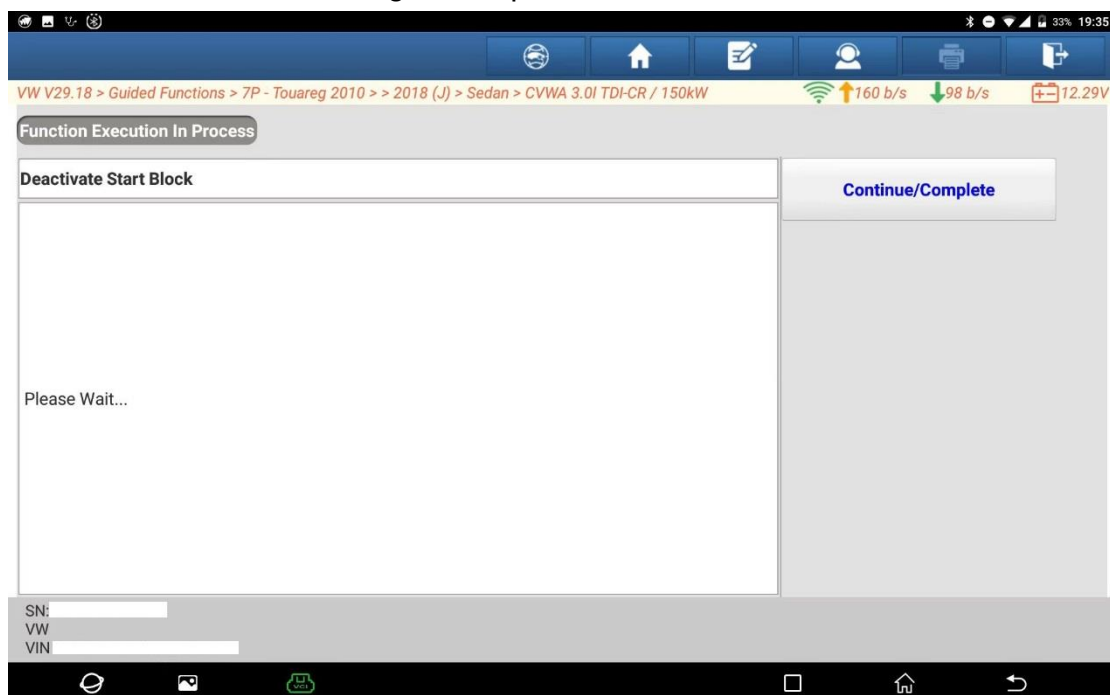
5. Six available functions will be displayed. Choose the specific function you require.



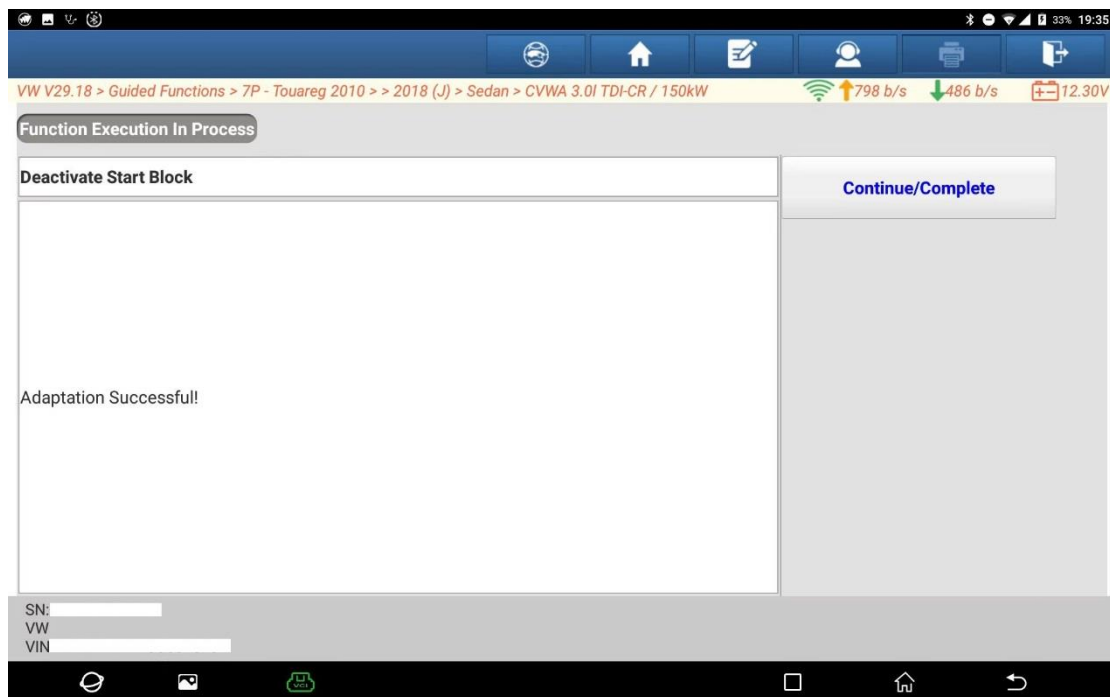
6. Choose the first function: Reset The Start Block. Read the function prompts and verify vehicle prerequisites. This function enables engine restart when the reducing agent tank is empty. Click "Yes".



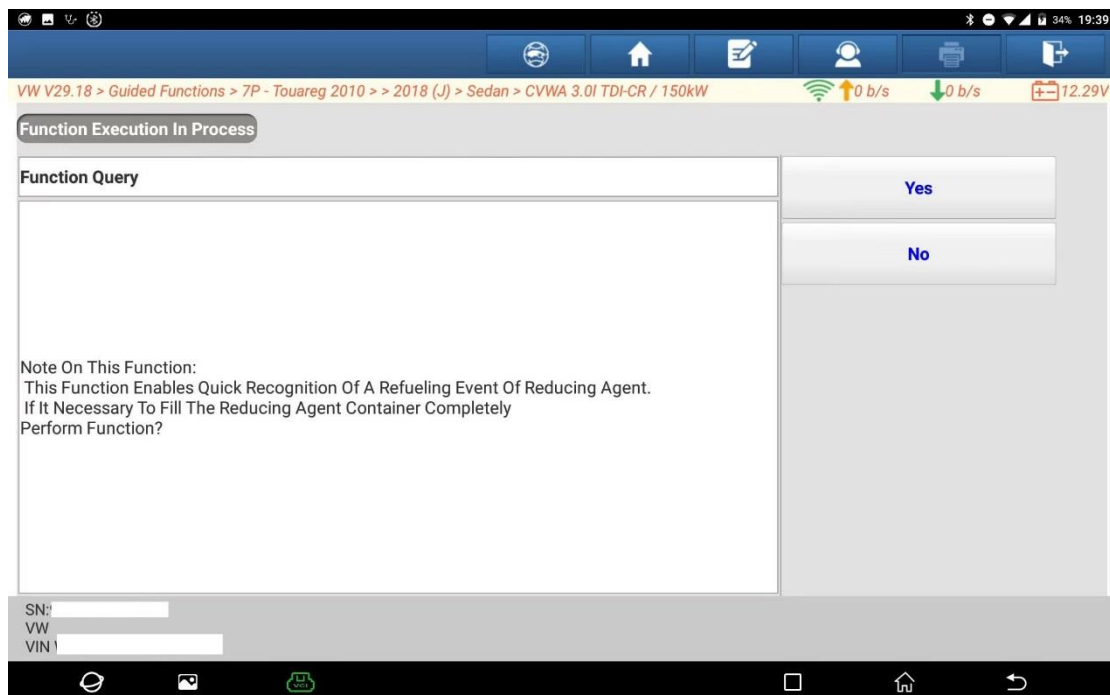
7. Wait for the basic setting to complete.



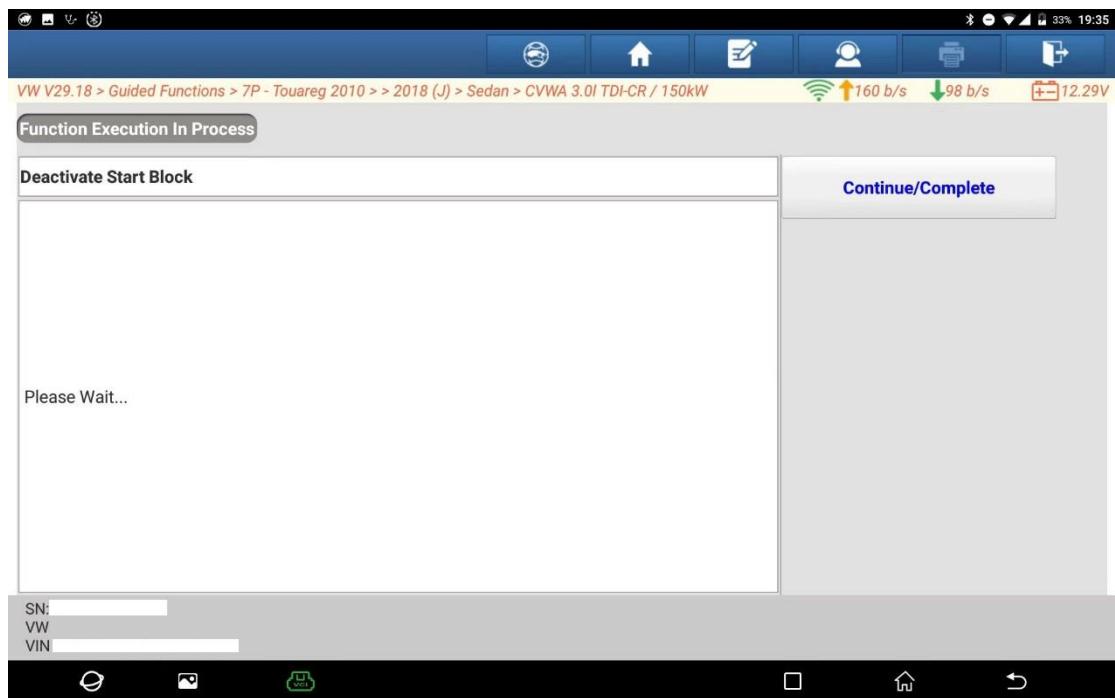
8. Basic setting finished. Read the remaining vehicle driving distance in the event of reducing agent failure. Adaptation is successful if the value is greater than 30 km. Click "Continue/Complete" to return to the function selection interface.



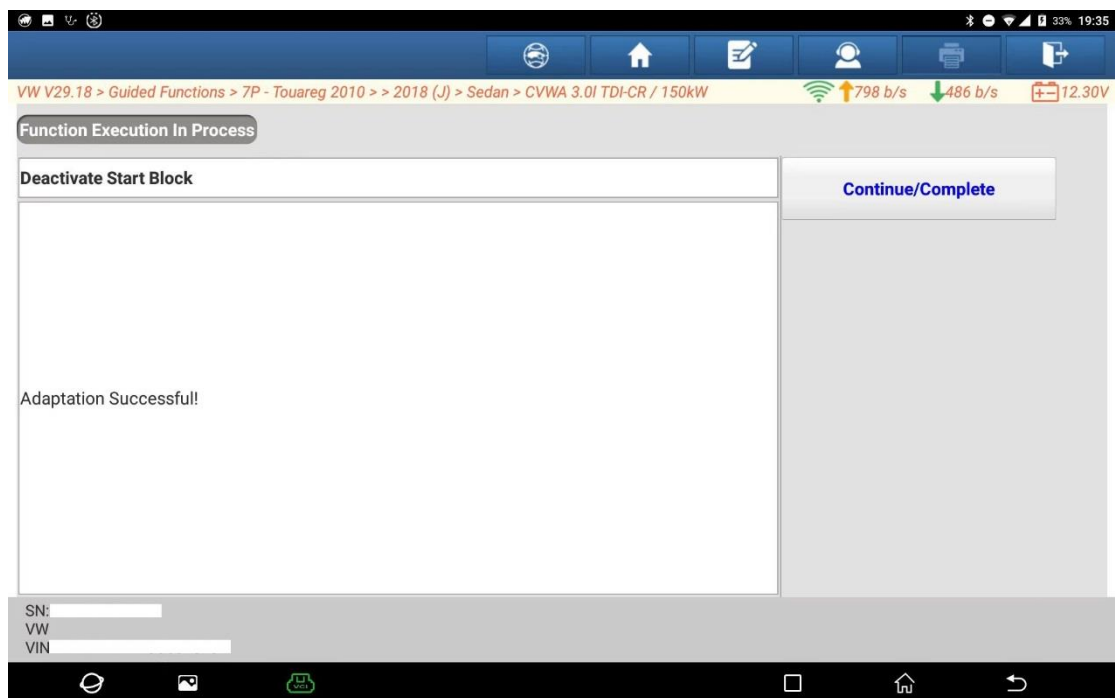
9. Choose the second function: Set The Reducing Agent Fill Level To Full. Read the function prompts and fill the reducing agent tank. This function quickly diagnoses faults caused by reducing agent refilling. Click "Yes".



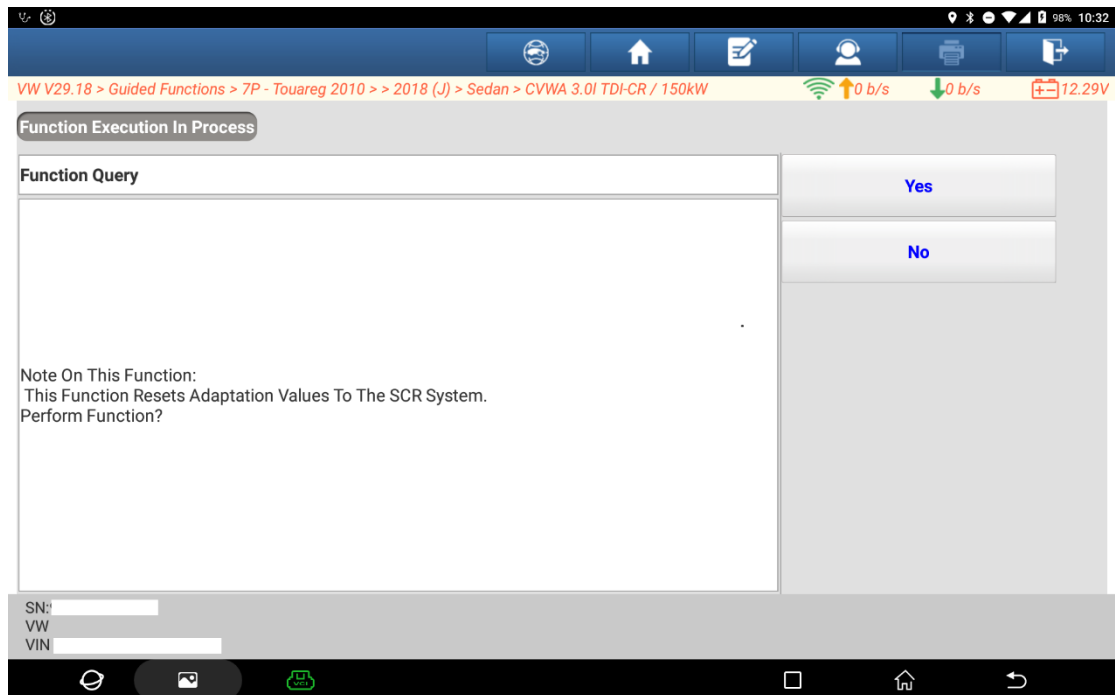
10. Wait for the basic setting to complete.



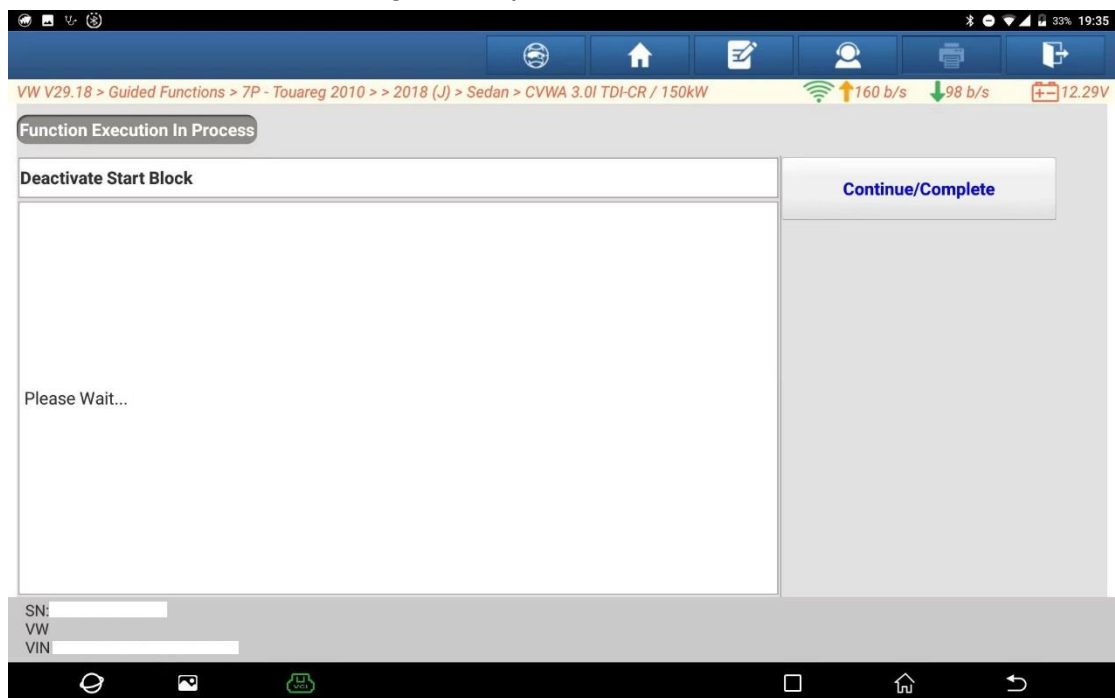
11. Basic setting finished. Adaptation is successful. Click "Continue/Complete" to return to the function selection interface.



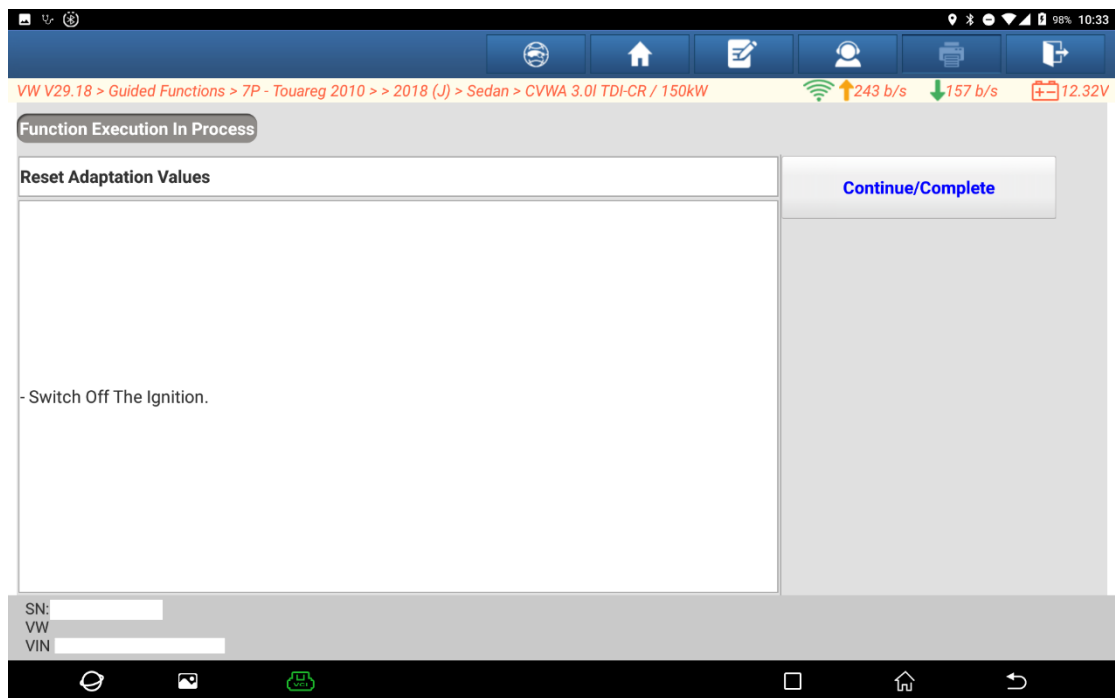
12. Choose the third function: Reset SCR System Adaptation Values. Read the function prompts and click "Yes".



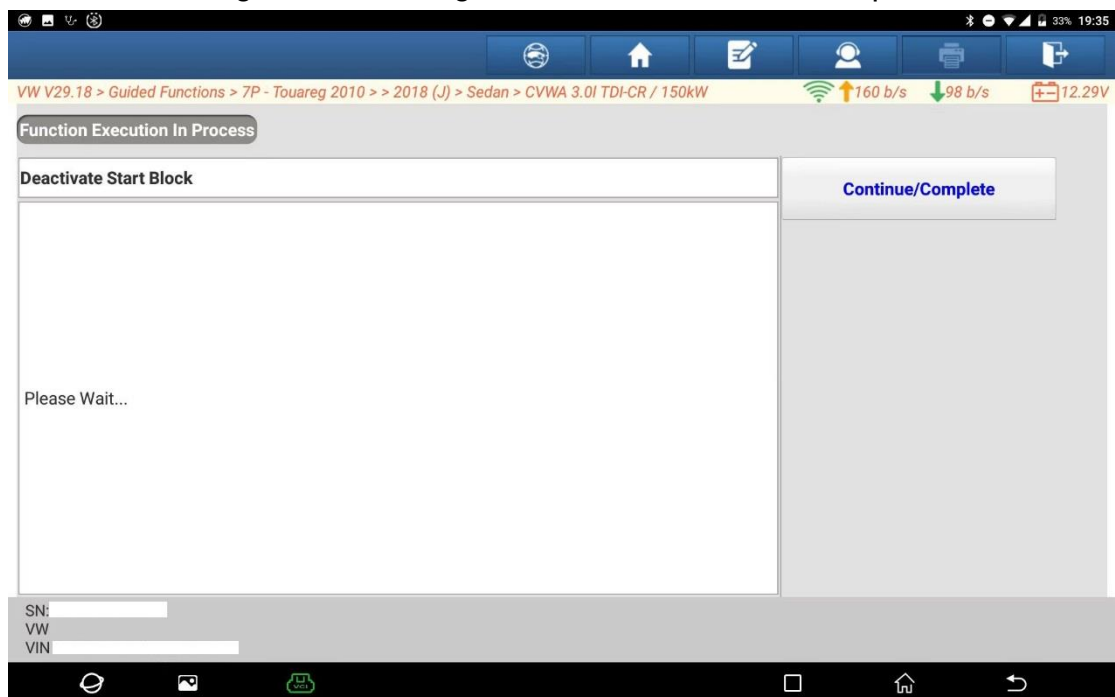
13. Wait for the basic setting to complete.



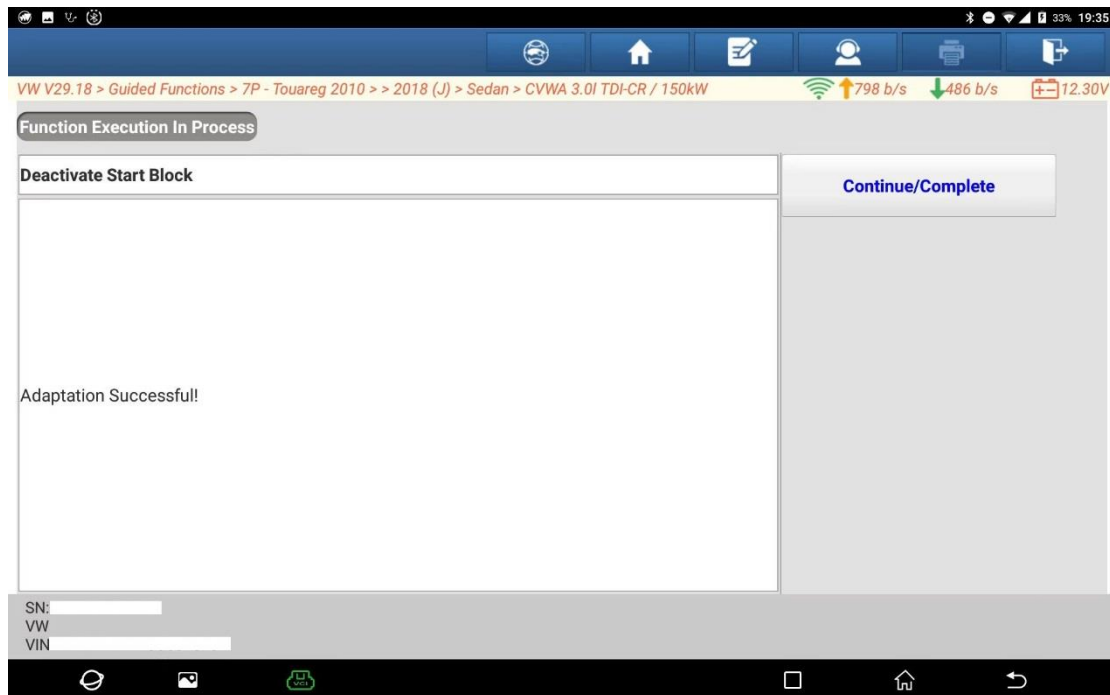
14. Turn off the ignition switch as instructed and click "Continue/Complete".



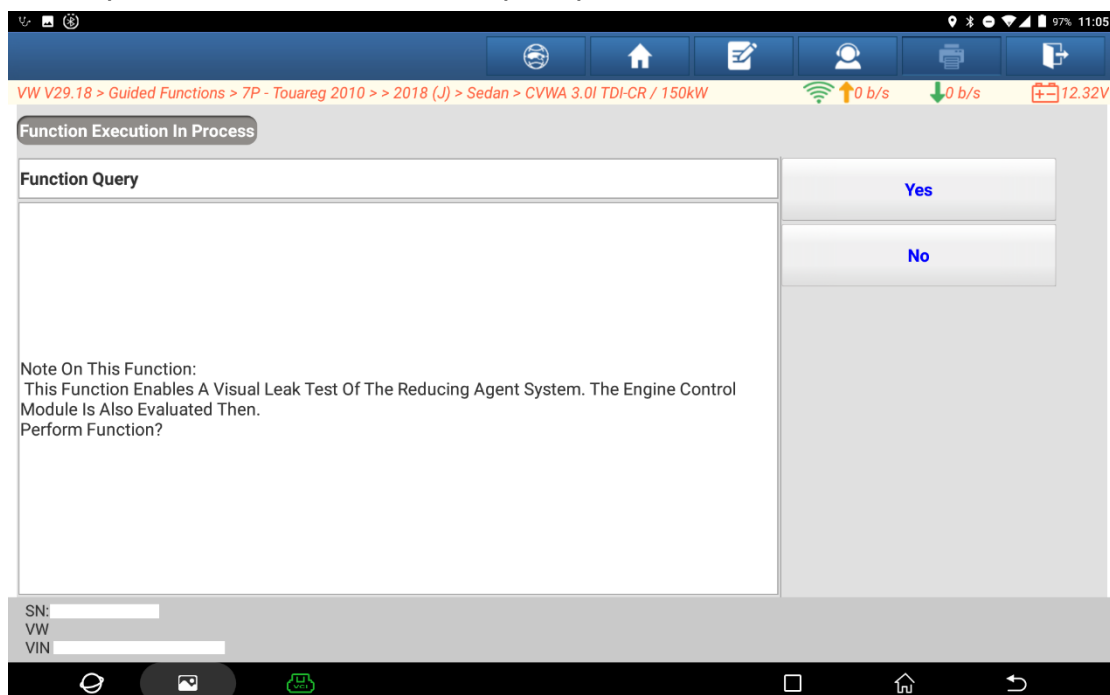
15. Turn on the ignition switch again and click "Continue/Complete".



16. Adaptation is successful. Click "Continue/Complete" to return to the function selection interface.



17. Choose the fourth function: Check The Reduction Agent System For Proper Seal. Read the function prompts and click "Yes".



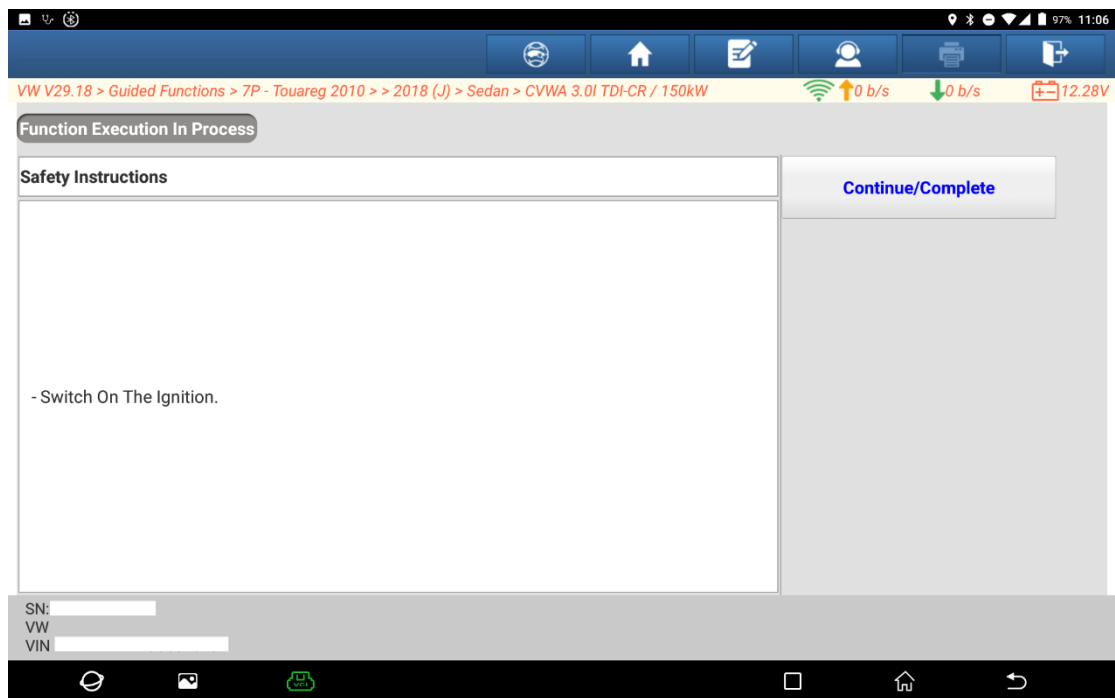
18. Read the test prerequisites and click "Yes".

The screenshot shows the Launch diagnostic tool interface. At the top, a status bar displays the vehicle information: "VW V29.18 > Guided Functions > 7P - Touareg 2010 > > 2018 (J) > Sedan > CVWA 3.0l TDI-CR / 150kW". Below this, a yellow bar shows the battery voltage as "12.28V". The main screen is titled "Function Execution In Process". It features a large text area on the left labeled "Preconditions" which contains the text: "Test Requirements: Parking Brake Activated, Selector Lever In P/N, Have You Established The Test Requirements!". To the right of this text area are two buttons: "Yes" and "No". At the bottom left, there are input fields for "SN:", "VW", and "VIN:". The bottom of the screen shows a standard Android navigation bar.

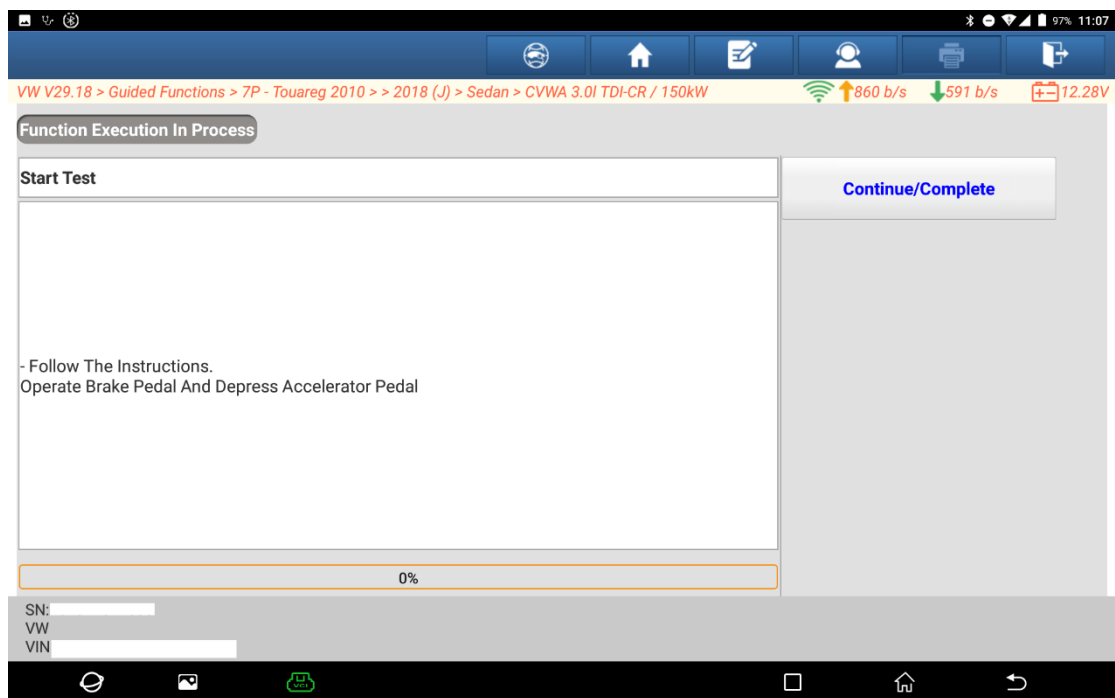
19. Read the safety instructions and click "Continue/Complete".

The screenshot shows the Launch diagnostic tool interface. At the top, a status bar displays the vehicle information: "VW V29.18 > Guided Functions > 7P - Touareg 2010 > > 2018 (J) > Sedan > CVWA 3.0l TDI-CR / 150kW". Below this, a yellow bar shows the battery voltage as "12.28V". The main screen is titled "Function Execution In Process". It features a large text area on the left labeled "Safety Instructions" which contains the text: "The System Conducts A Leak-Tightness Test In The Following Basic Setting. Duration Of Basic Setting: Approx. 10 Min - Continue With The <Continue/Complete> Button.". To the right of this text area is a button labeled "Continue/Complete". At the bottom left, there are input fields for "SN:", "VW", and "VIN:". The bottom of the screen shows a standard Android navigation bar.

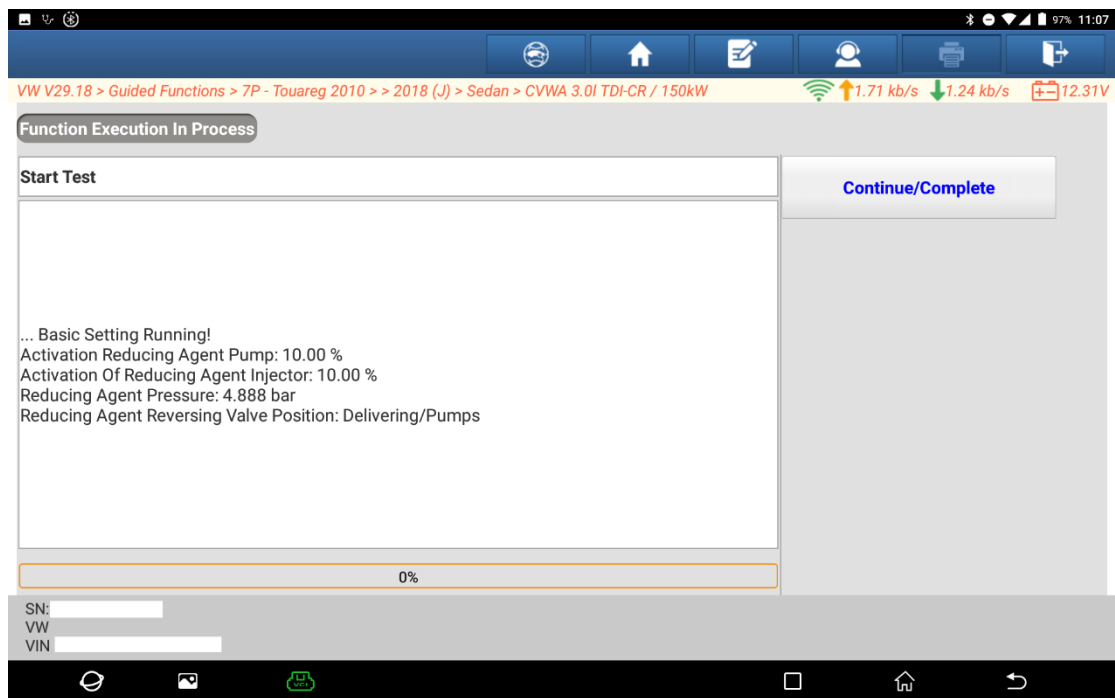
20. Turn on the ignition switch as instructed and click "Continue/Complete".



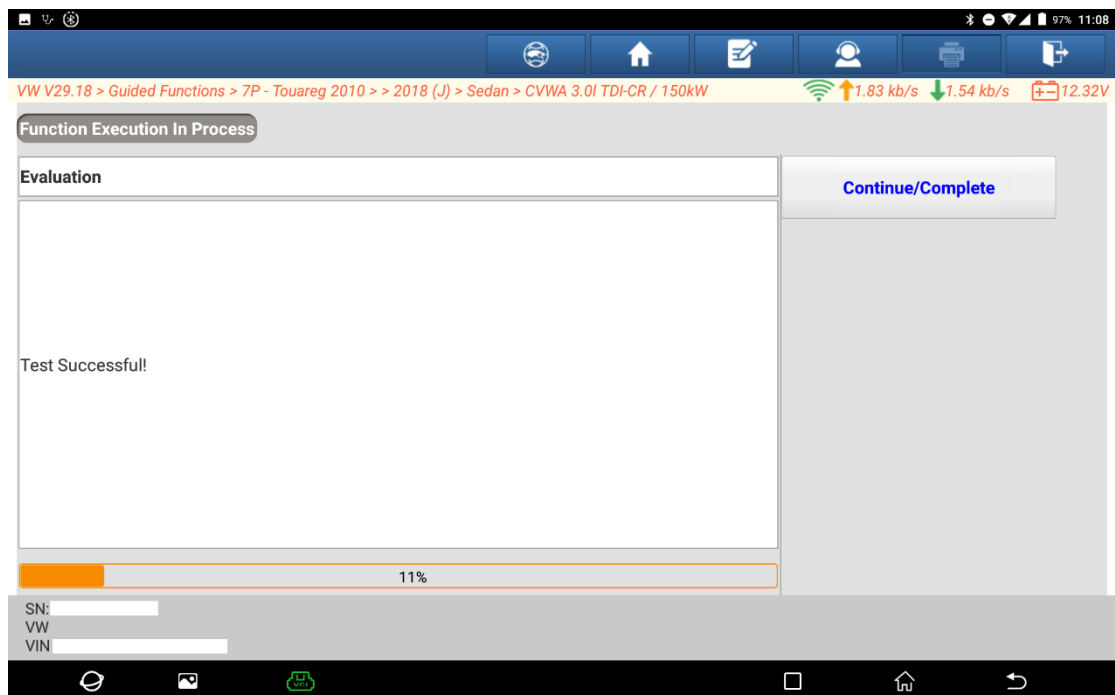
21. Depress the brake pedal and fully depress the accelerator pedal as instructed.



22. Wait for the basic setting to complete.



23. Test successful. Click "Continue/Complete" to exit the function.



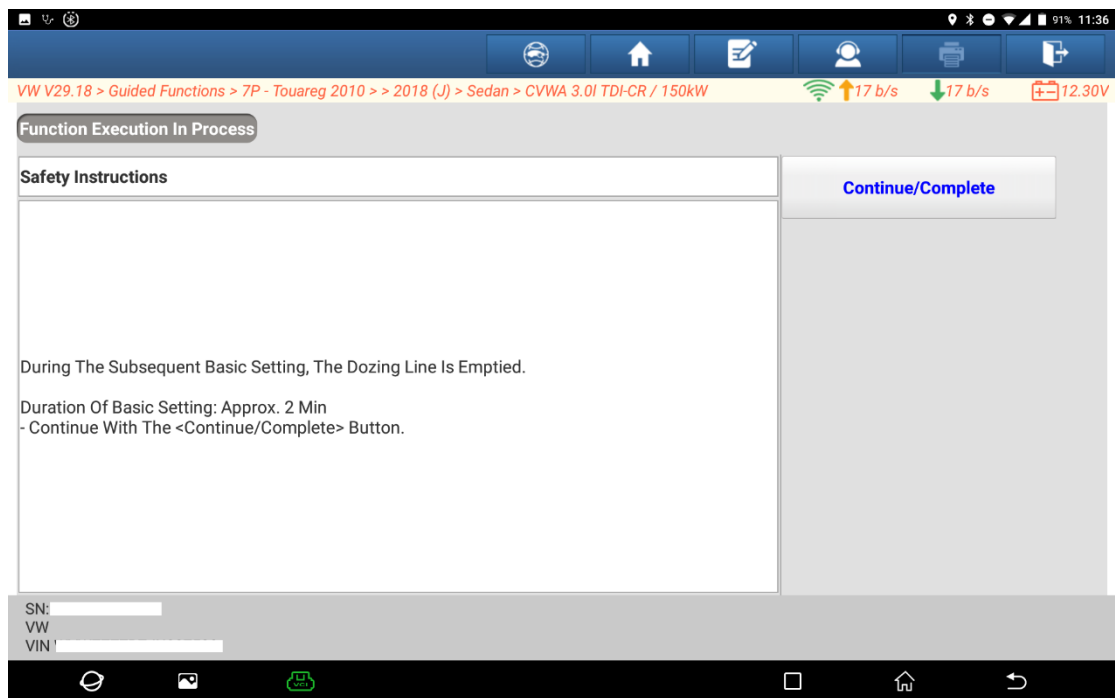
24. Choose the fifth function: Empty The Reducing Agent Conduit. Read the function prompts and click "Yes".

The screenshot shows the Launch diagnostic tool interface. At the top, there is a status bar with icons for home, back, and other functions. Below this is a navigation bar with the text: "VW V29.18 > Guided Functions > 7P - Touareg 2010 > > 2018 (J) > Sedan > CVWA 3.0l TDI-CR / 150kW". To the right of this bar are icons for signal strength, battery level (91%), and time (11:36). The main area is titled "Function Execution In Process". It contains a "Function Query" section with a large text area and two buttons: "Yes" and "No". The text area contains the following text: "Note On This Function:
This Function Enables An Emptying Of The Reducing Agent Line.
Perform Function?". At the bottom of the screen, there are input fields for SN, VW, and VIN.

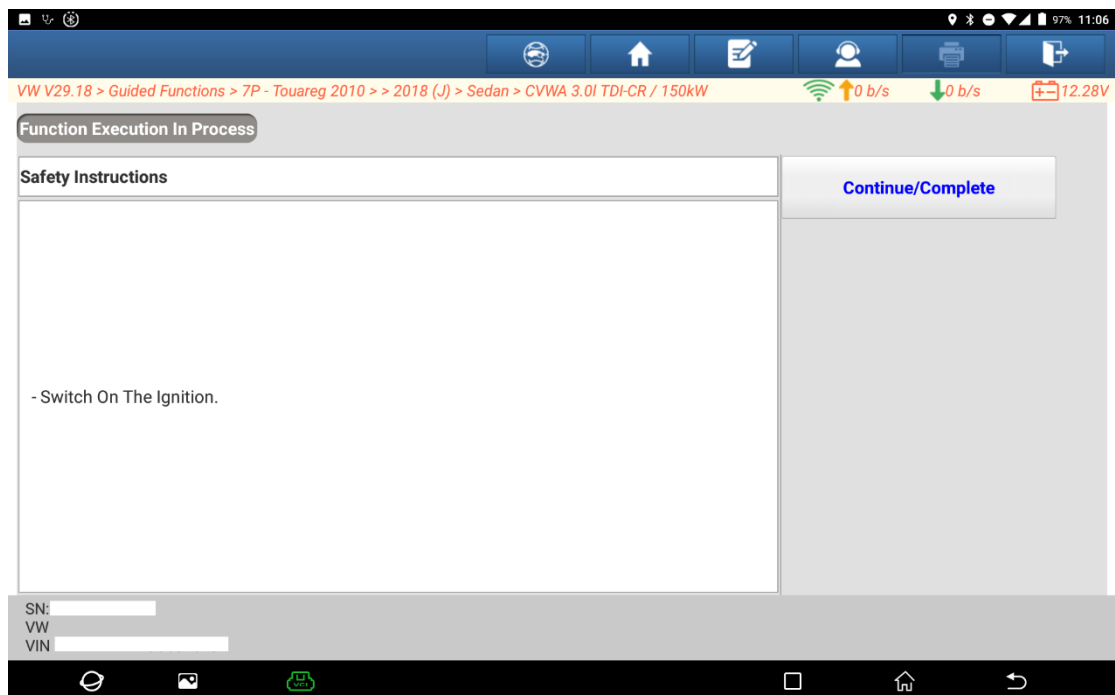
25. Read the test prerequisites and click "Yes".

The screenshot shows the Launch diagnostic tool interface. At the top, there is a status bar with icons for home, back, and other functions. Below this is a navigation bar with the text: "VW V29.18 > Guided Functions > 7P - Touareg 2010 > > 2018 (J) > Sedan > CVWA 3.0l TDI-CR / 150kW". To the right of this bar are icons for signal strength, battery level (97%), and time (11:05). The main area is titled "Function Execution In Process". It contains a "Preconditions" section with a large text area and two buttons: "Yes" and "No". The text area contains the following text: "Test Requirements:
Parking Brake Activated
Selector Lever In P/N
Have You Established The Test Requirements!". At the bottom of the screen, there are input fields for SN, VW, and VIN.

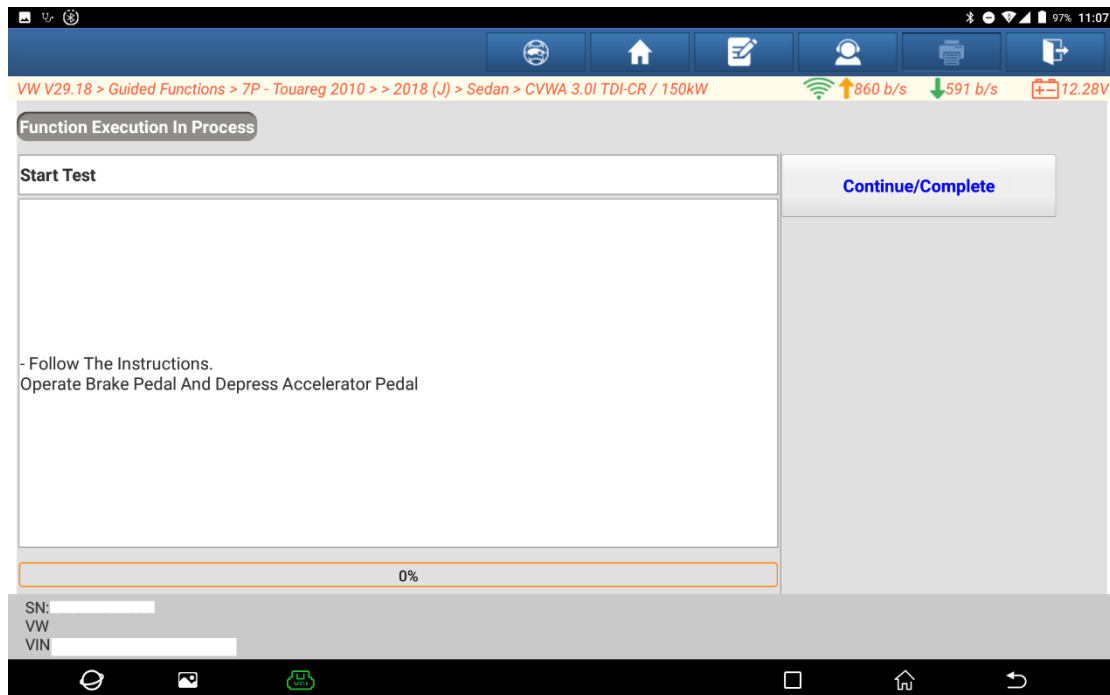
26. Read the safety instructions and click "Continue/Complete".



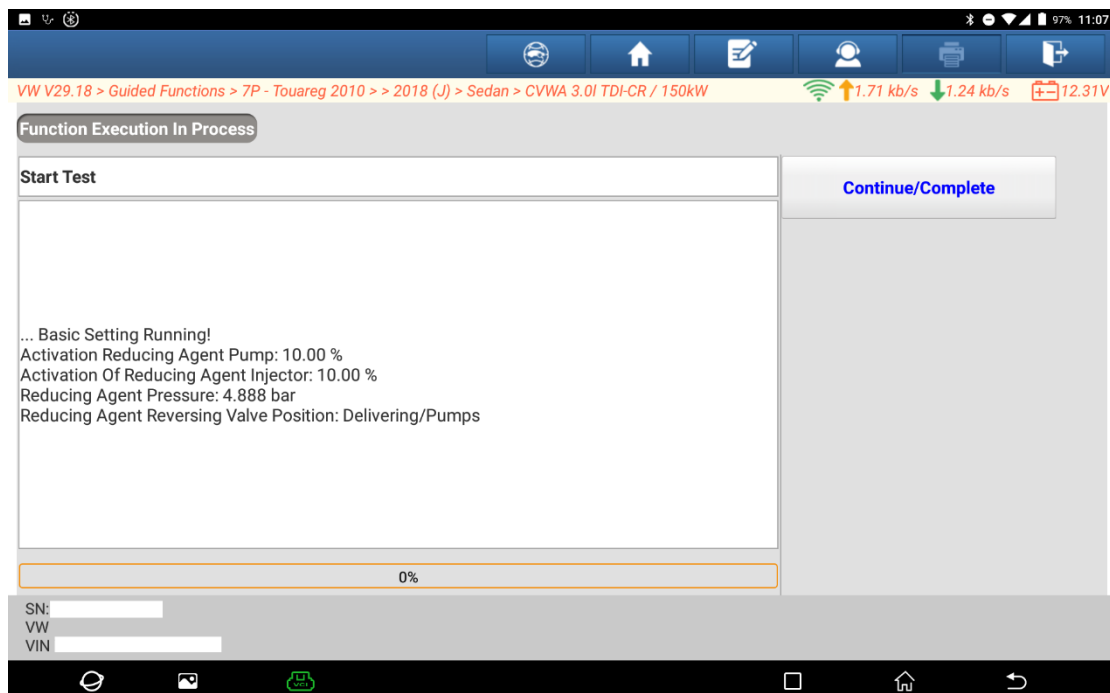
27. Turn on the ignition switch as instructed and click "Continue/Complete".

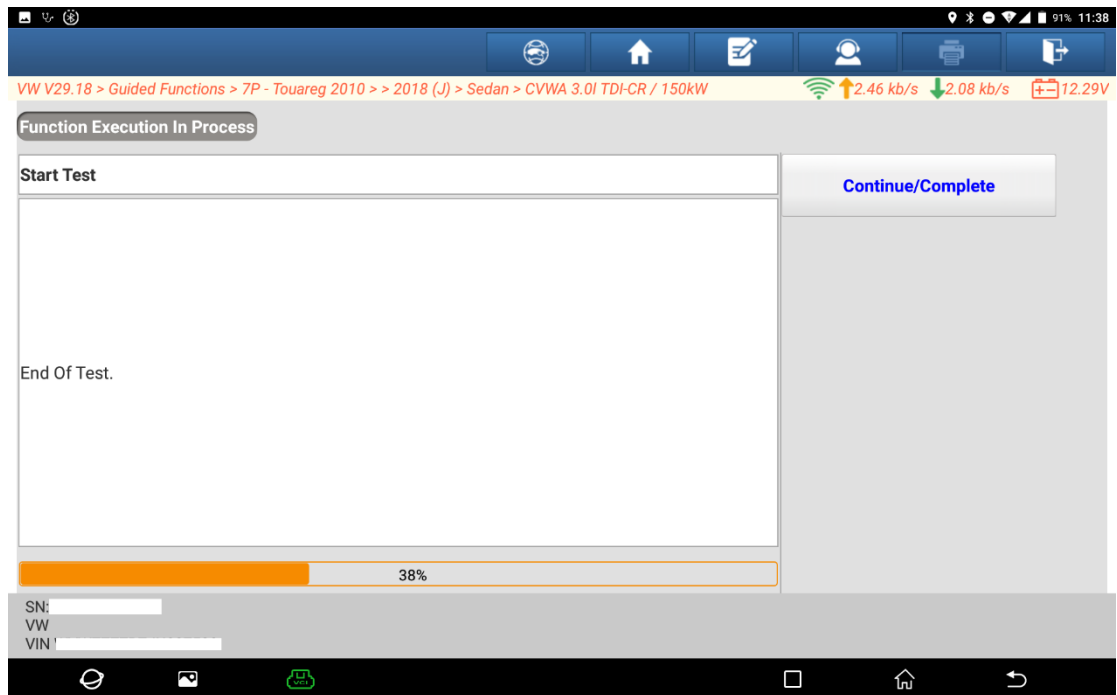


28. Depress the brake pedal and fully depress the accelerator pedal as instructed.

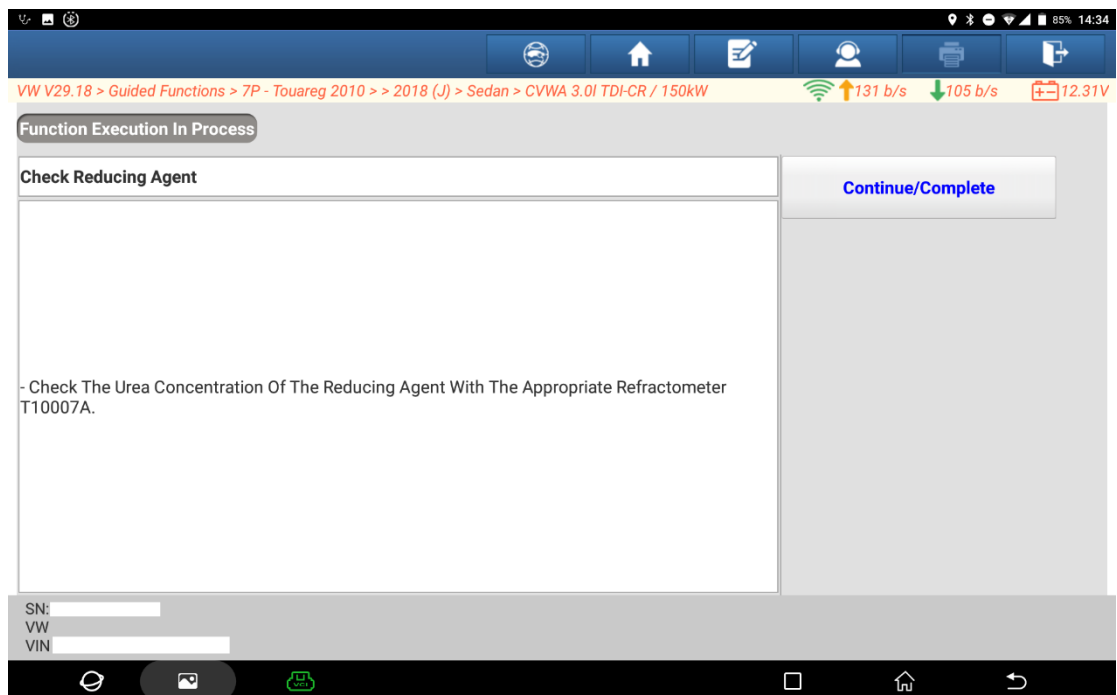


29. Wait for the basic setting to complete. The function will exit automatically upon completion.





30. Choose the sixth function: Dosage Test. As instructed, check the urea concentration of the reducing agent with the tool T10007A.



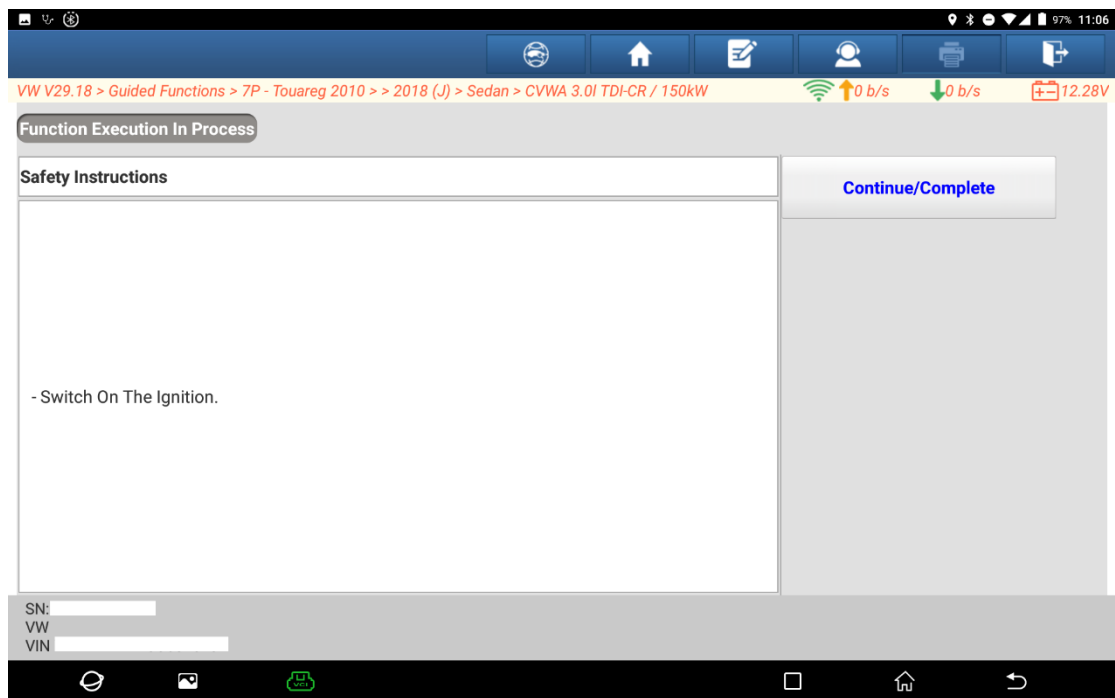
31. Check if the urea concentration meets specifications, and then click "Yes".

The screenshot shows the Launch diagnostic tool interface. At the top, there is a status bar with icons for home, back, and other functions. Below this is a navigation bar with the text "VW V29.18 > Guided Functions > 7P - Touareg 2010 > > 2018 (J) > Sedan > CVWA 3.0l TDI-CR / 150kW". The main area is titled "Function Execution In Process" and contains a section "Check Reducing Agent". Below this section is a large text area with the question "Does The Urea Concentration Match The Specification?". To the right of the text area are two buttons: "Yes" and "No". At the bottom of the screen, there are input fields for "SN:", "VW", and "VIN:".

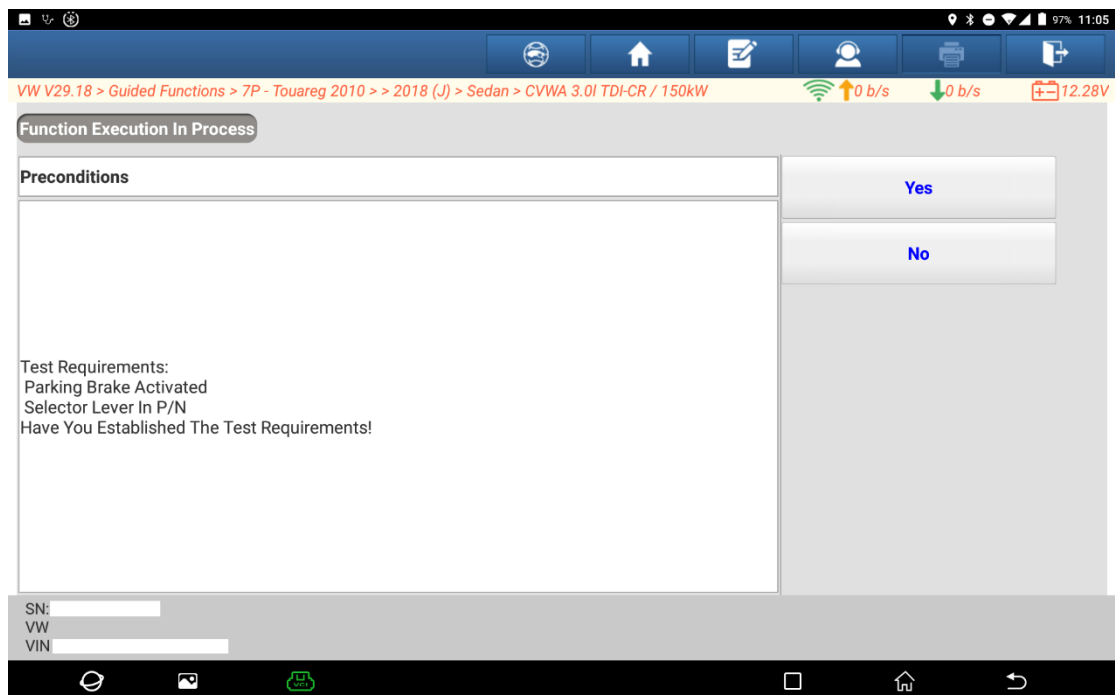
32. Check the vehicle for faults according to the listed fault causes, and then click "No".

The screenshot shows the Launch diagnostic tool interface. At the top, there is a status bar with icons for home, back, and other functions. Below this is a navigation bar with the text "VW V29.18 > Guided Functions > 7P - Touareg 2010 > > 2018 (J) > Sedan > CVWA 3.0l TDI-CR / 150kW". The main area is titled "Function Execution In Process" and contains a section "Mechanical Malfunctions?". Below this section is a large text area with the text "Possible Malfunction Cause: SCR Cat. Converter Mechanically Damaged. Exhaust System Leaking / Damaged. Did You Recognize One Of The Causes For The Error?". To the right of the text area are two buttons: "Yes" and "No". At the bottom of the screen, there are input fields for "SN:", "VW", and "VIN:".

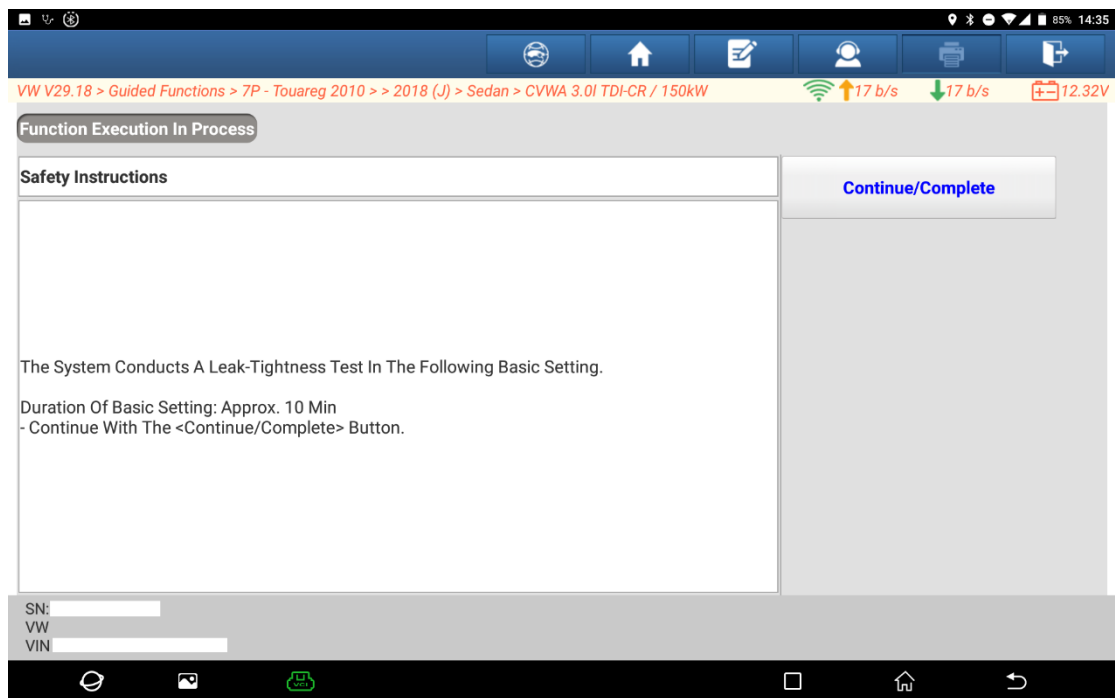
33. Turn on the ignition switch as instructed and click "Continue/Complete".



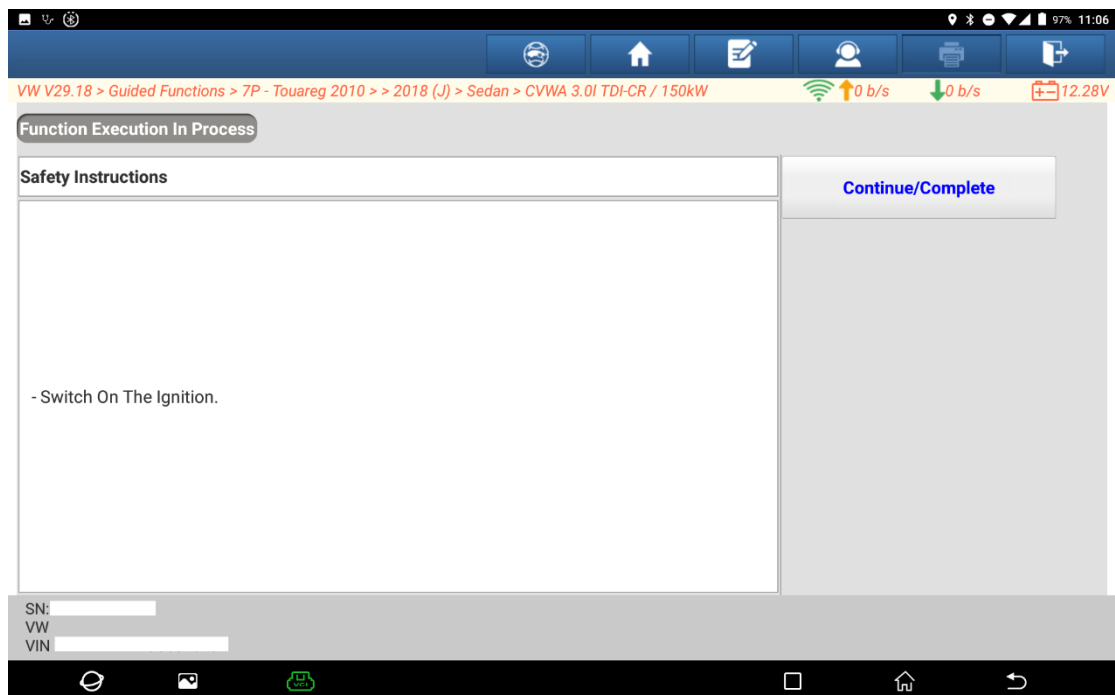
34. Read the test prerequisites and click "Yes".



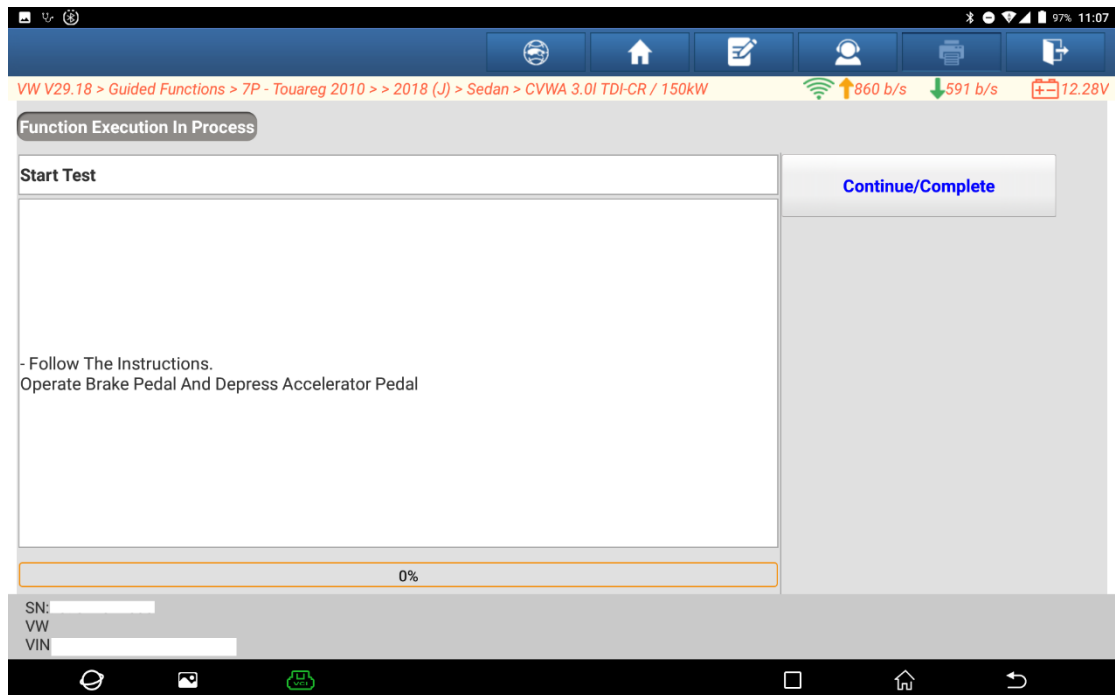
35. Read the safety instructions and click "Continue/Complete".



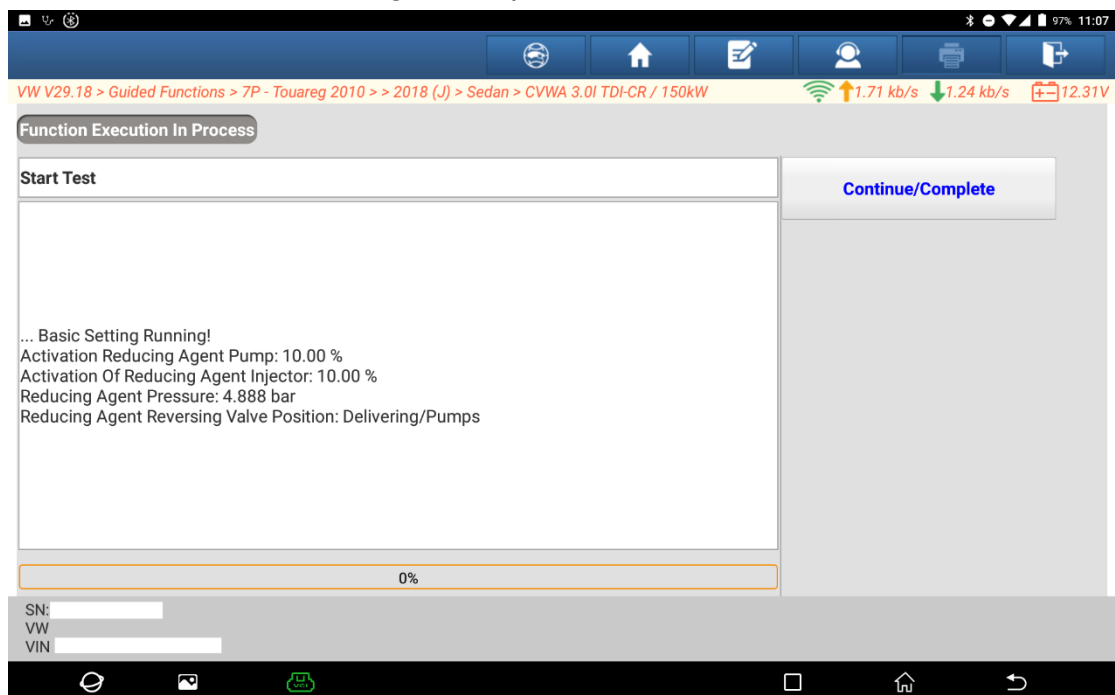
36. Turn on the ignition switch as instructed and click "Continue/Complete".



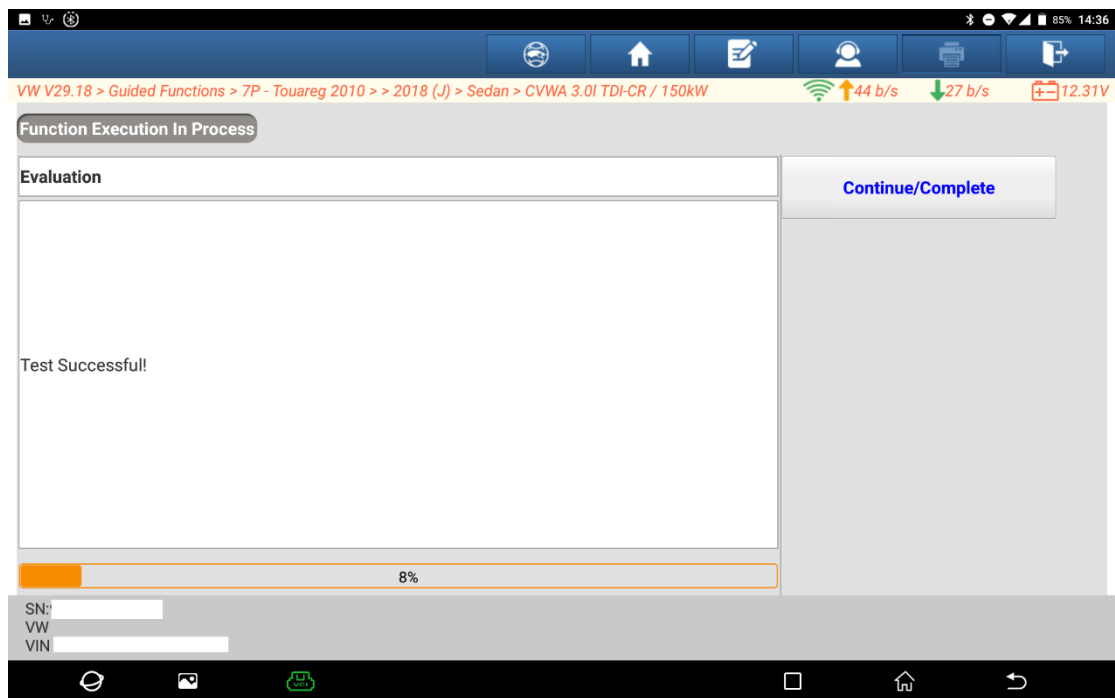
37. Depress the brake pedal and fully depress the accelerator pedal as instructed.



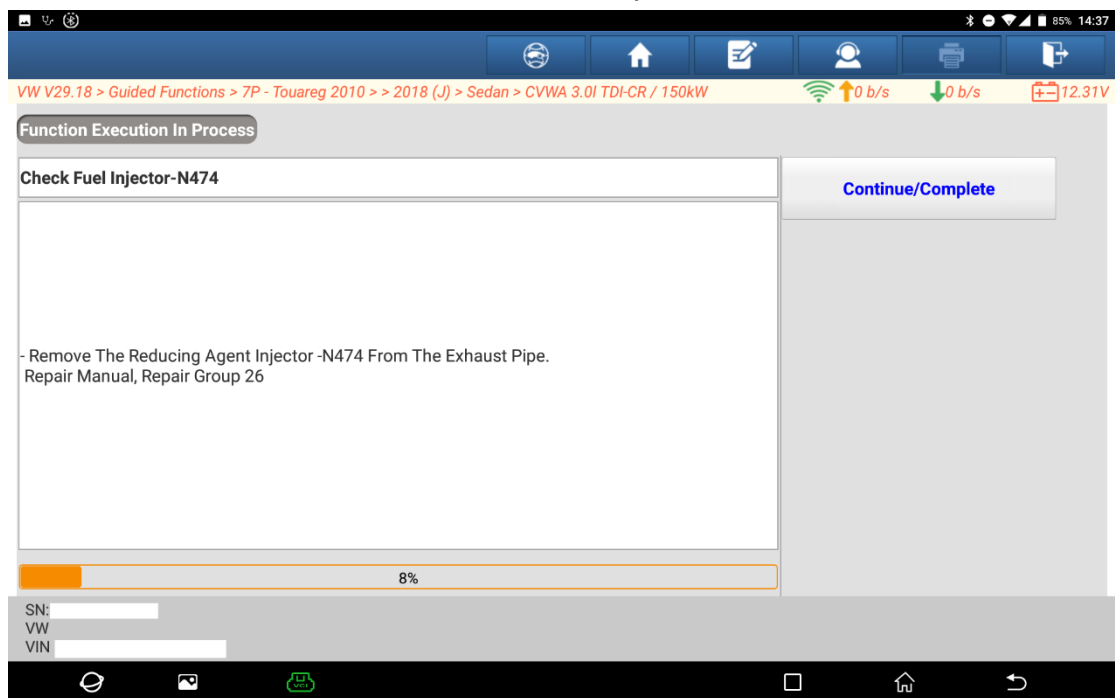
38. Wait for the basic setting to complete.



39. Basic setting finished. Test successful. Click "Continue/Complete".



40. Remove the reducing agent injection valve (N474) from the exhaust pipe as instructed, and then click "Continue/Complete".



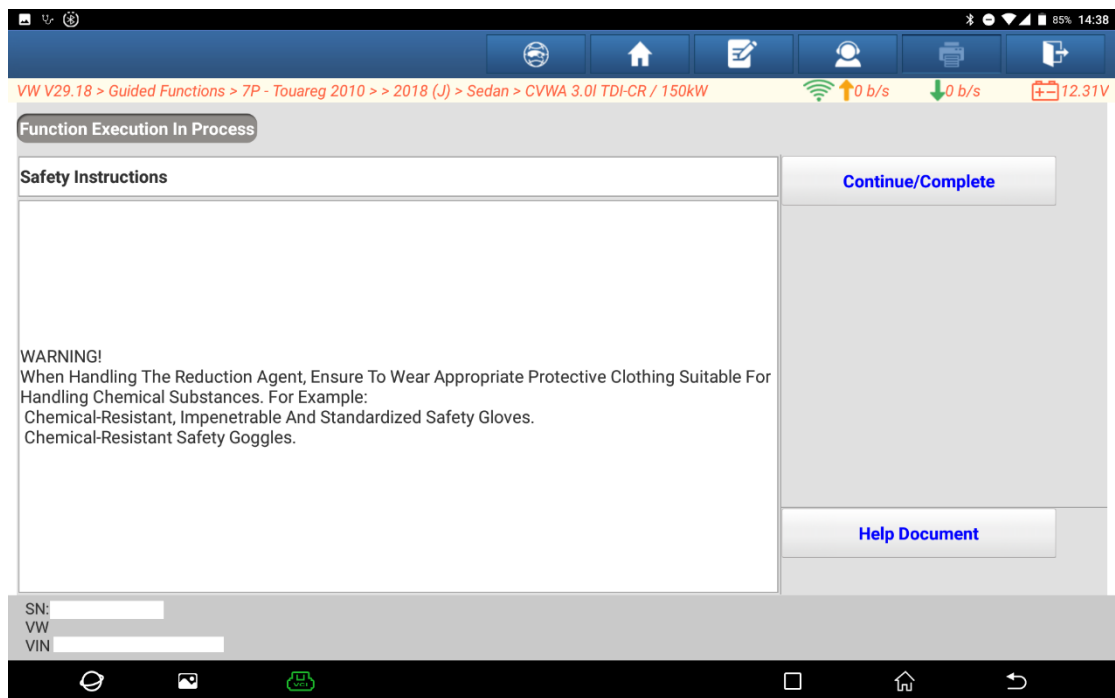
41. Check the injection valve (N474) for crystalline deposits, and then click "No".

The screenshot shows the Launch diagnostic software interface. At the top, a status bar displays 'VW V29.18 > Guided Functions > 7P - Touareg 2010 > > 2018 (J) > Sedan > CVWA 3.0l TDI-CR / 150kW' along with signal strength, data rates (0 b/s), and battery voltage (12.31V). The main area is titled 'Function Execution In Process' and contains a section for 'Check Fuel Injector-N474'. Below this, a large text box contains the instruction: '- Check The Spray Holes (3) Of The Reducing Agent Injector -N474 For Crystalline Deposits. Did You Find Crystalline Deposits?'. To the right of this text box are two buttons: 'Yes' and 'No'. A progress bar at the bottom of the main area shows 8% completion. At the bottom left, there are input fields for SN, VW, and VIN. The bottom navigation bar includes icons for home, back, and other functions.

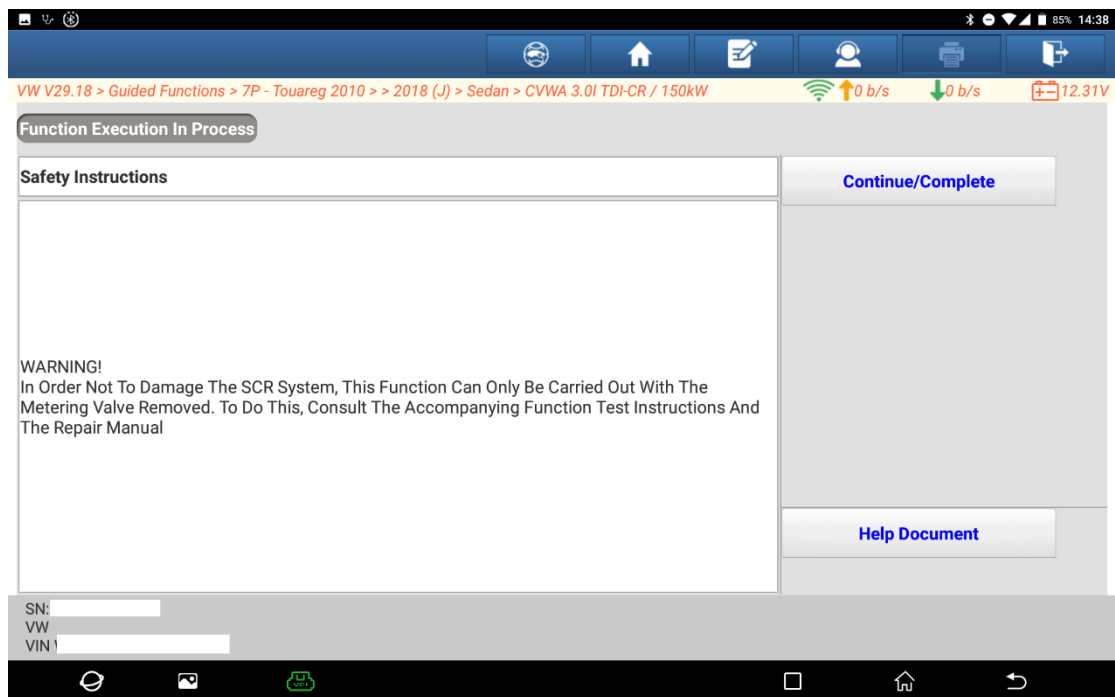
42. Read the test prerequisites and click "Yes".

The screenshot shows the Launch diagnostic software interface. At the top, a status bar displays 'VW V29.18 > Guided Functions > 7P - Touareg 2010 > > 2018 (J) > Sedan > CVWA 3.0l TDI-CR / 150kW' along with signal strength, data rates (0 b/s), and battery voltage (12.28V). The main area is titled 'Function Execution In Process' and contains a section for 'Preconditions'. Below this, a large text box contains the instruction: 'Test Requirements: Parking Brake Activated Selector Lever In P/N Have You Established The Test Requirements!'. To the right of this text box are two buttons: 'Yes' and 'No'. At the bottom left, there are input fields for SN, VW, and VIN. The bottom navigation bar includes icons for home, back, and other functions.

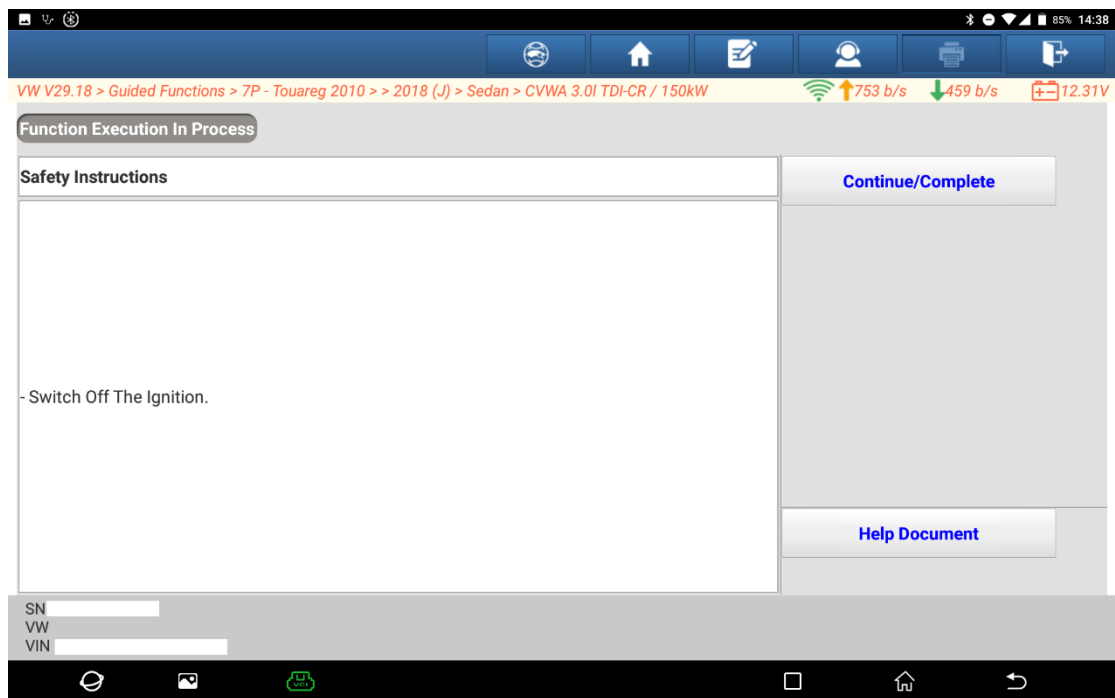
43. Read the precautions and click "Continue/Complete".



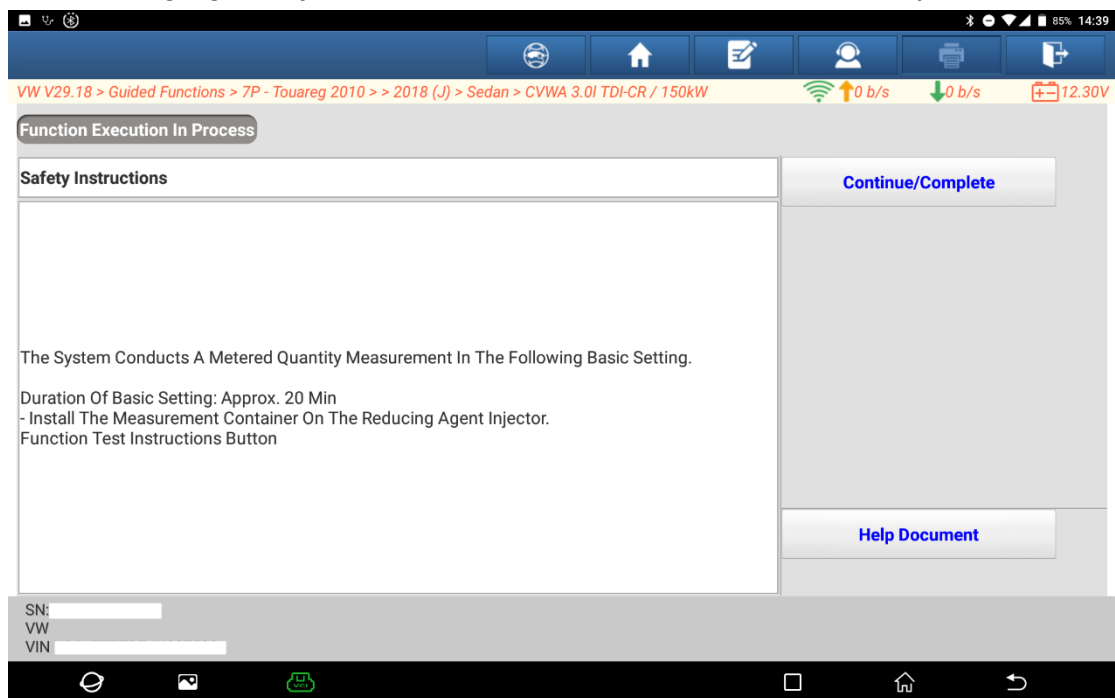
44. Read the safety instructions and click "Continue/Complete".



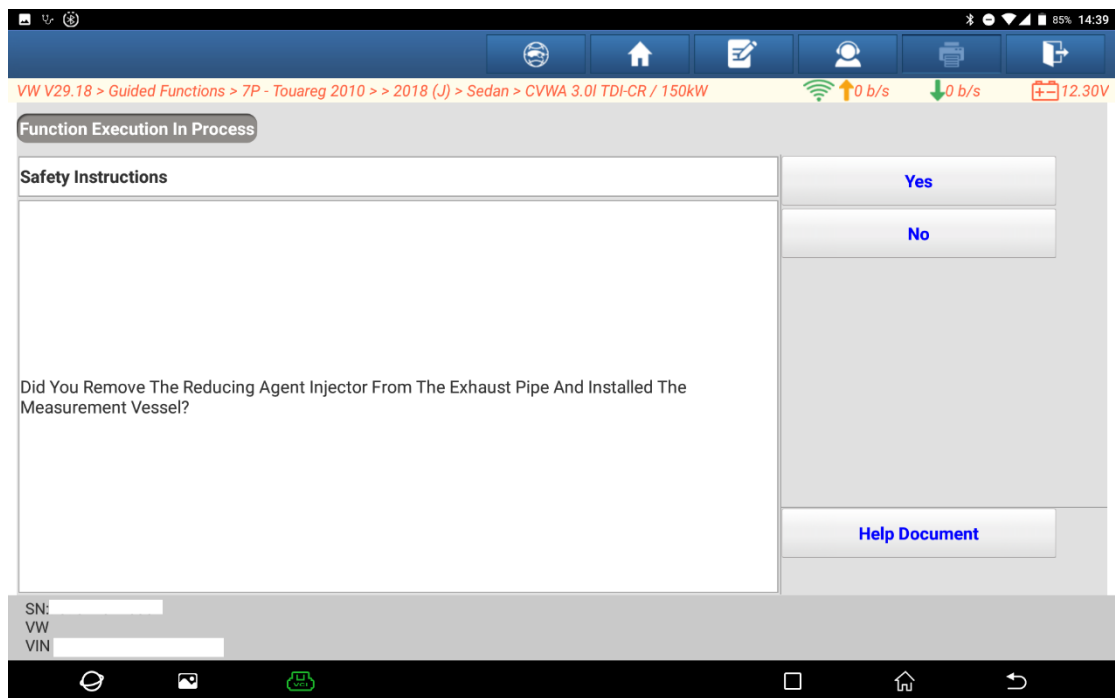
45. Turn off the ignition switch as instructed and click "Continue/Complete".



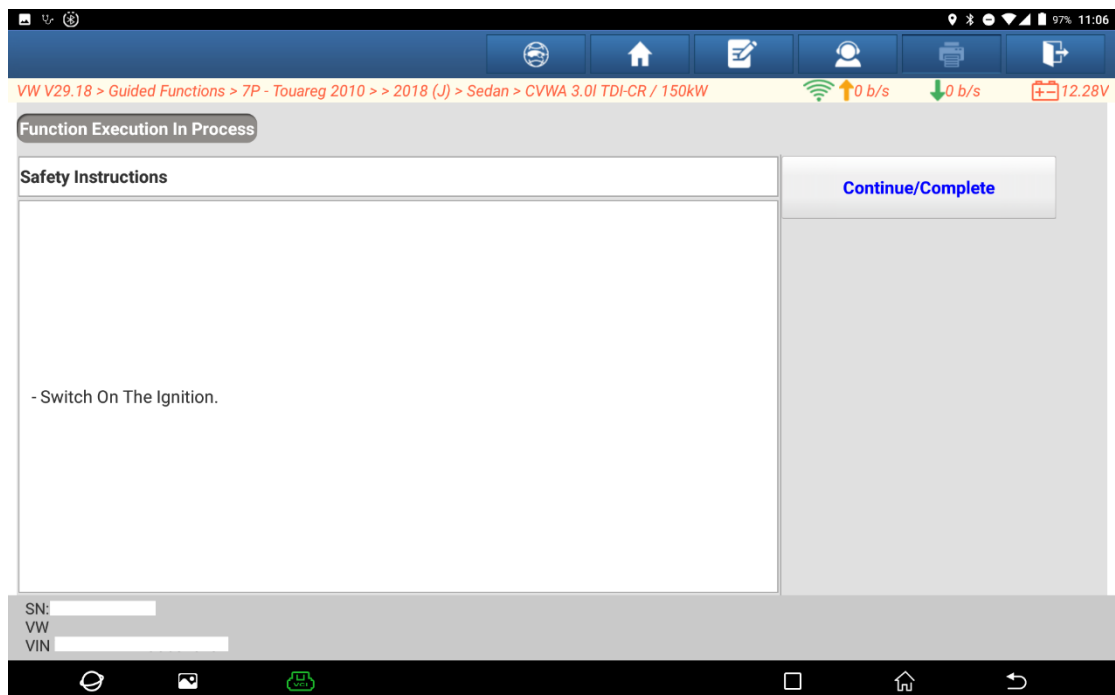
46. Read the safety instructions, install the measurement container to the reducing agent injection valve, and then click "Continue/Complete".



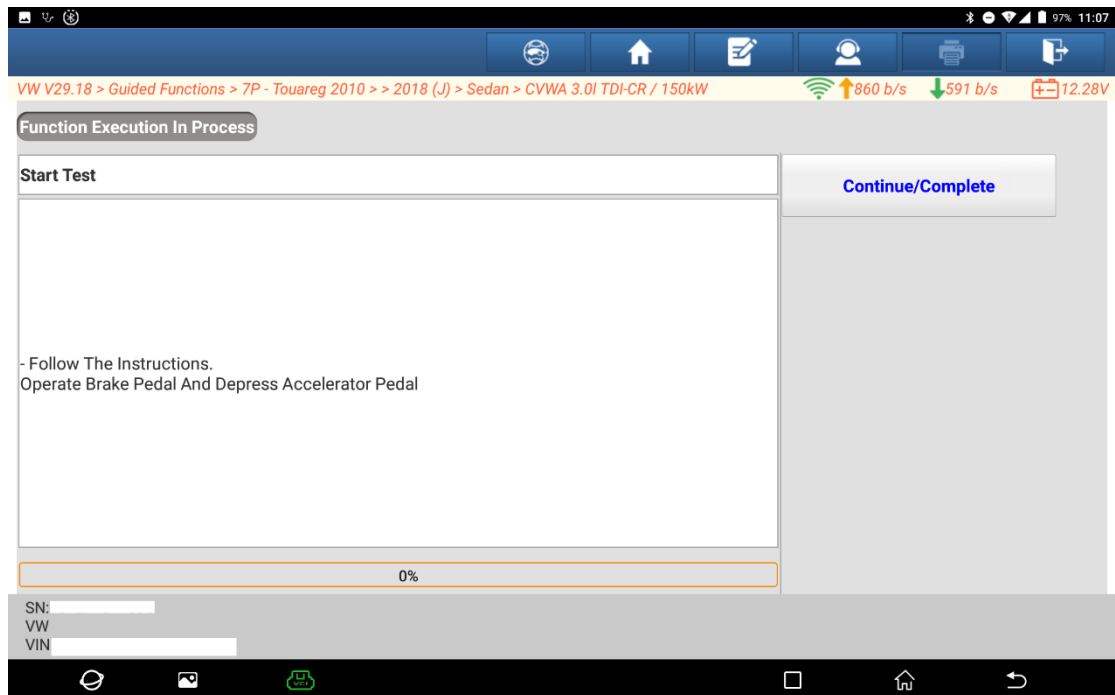
47. Read the safety instructions and click "Yes".



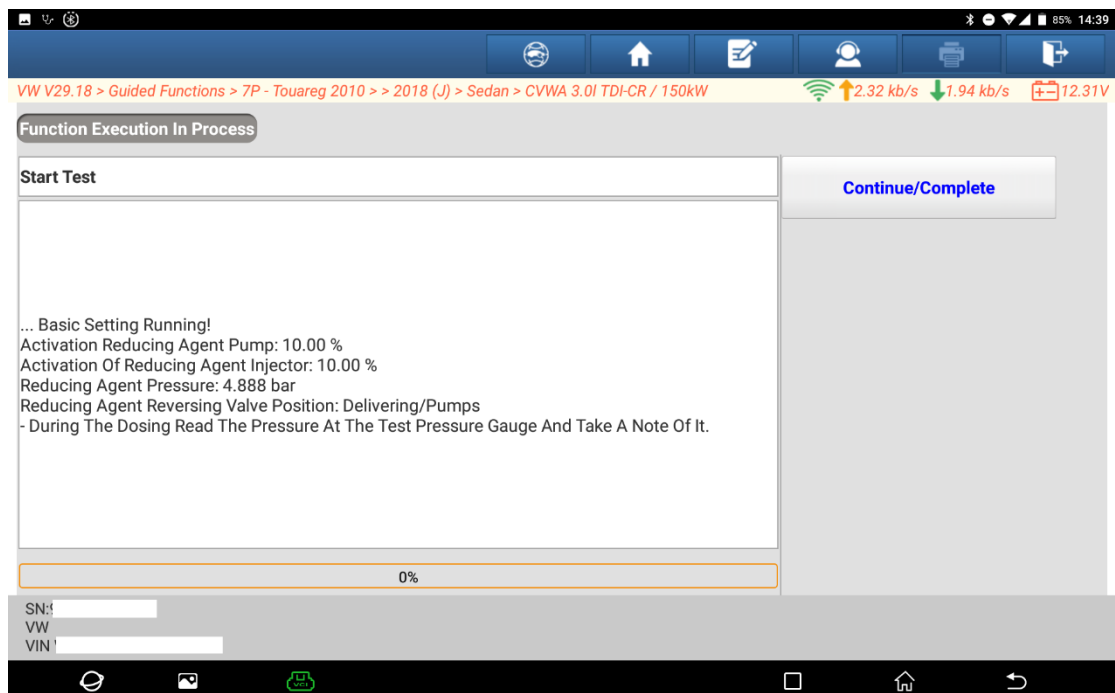
48. Turn on the ignition switch as instructed and click "Continue/Complete".



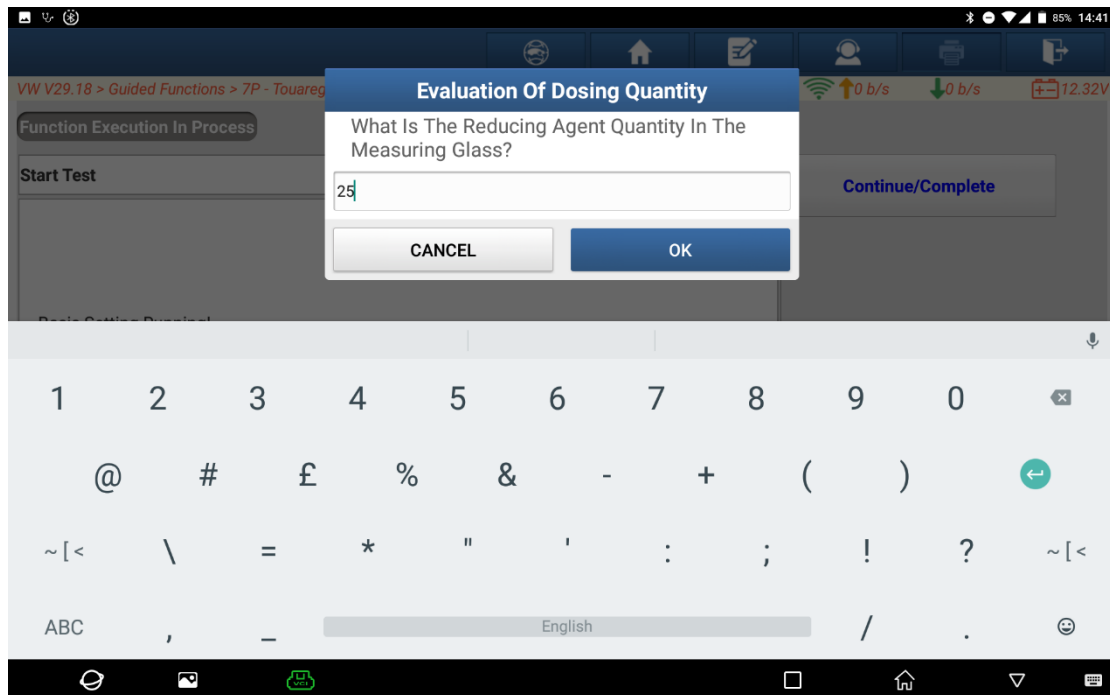
49. Depress the brake pedal and fully depress the accelerator pedal as instructed.



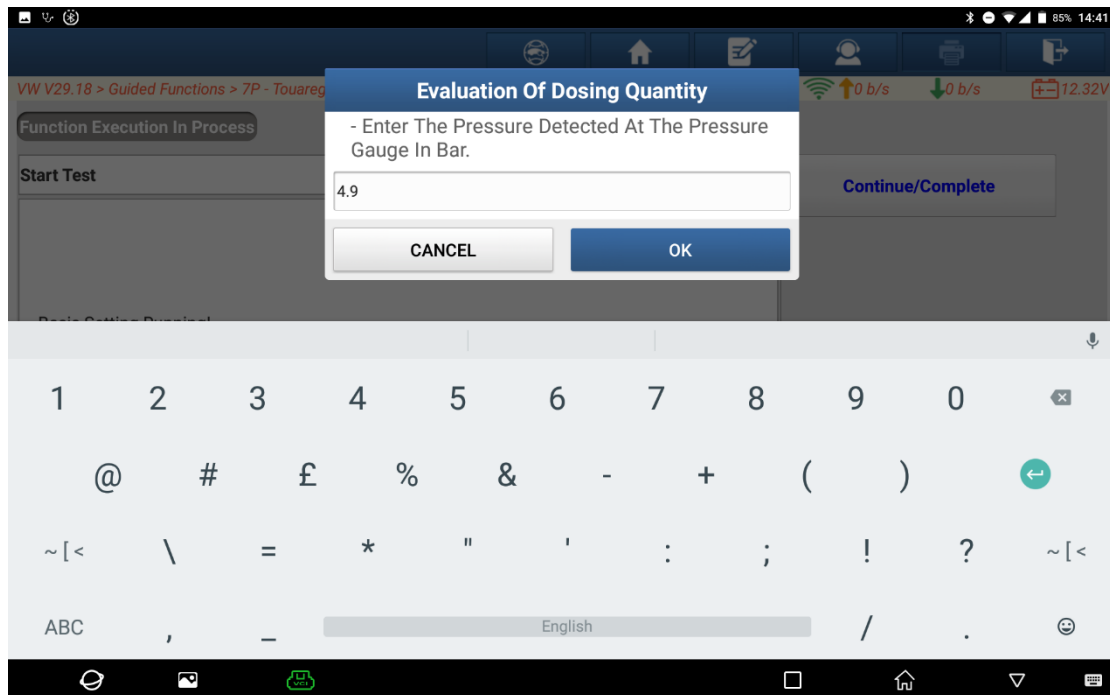
50. Wait for the basic setting to complete and record the pressure shown on the pressure gauge.



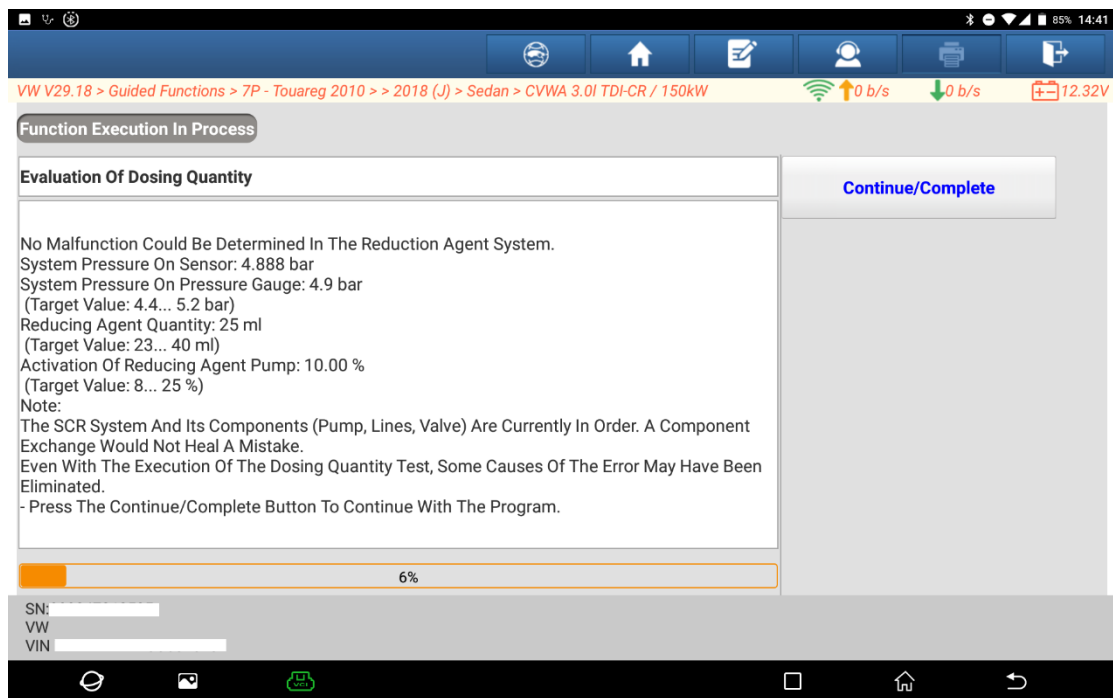
51. Enter the reducing agent quantity in the measuring glass, and then click "OK".



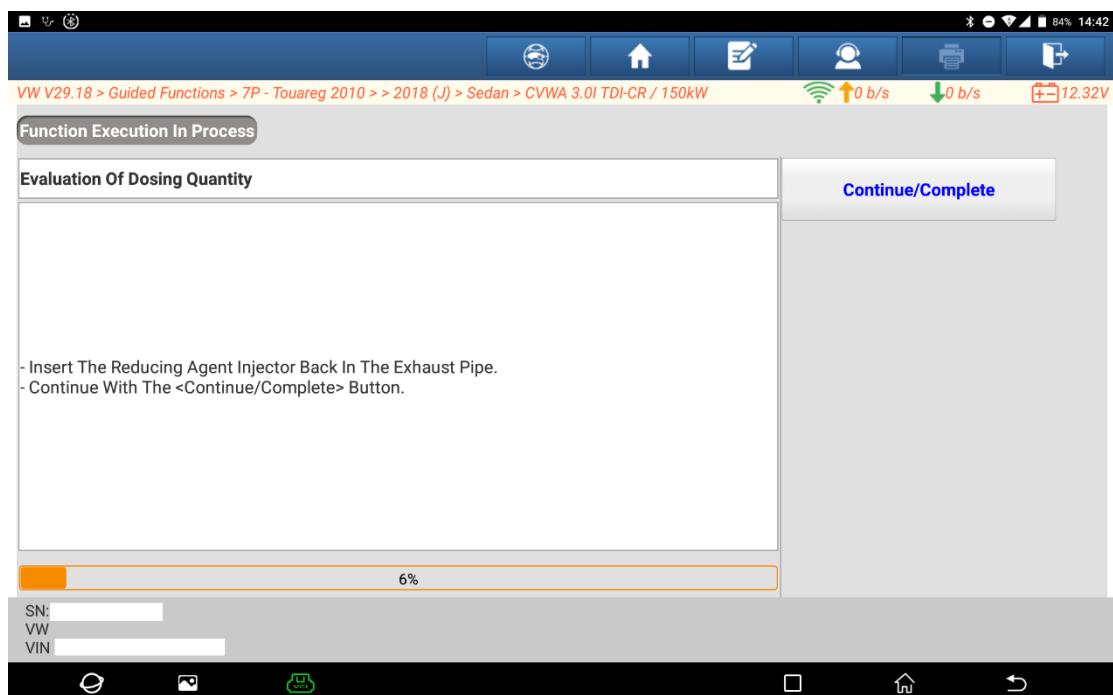
52. Enter the pressure detected at the pressure gauge, and then click "OK".



53. Read dosage analysis results and click "Continue/Complete".



54. Reinstall the reducing agent injection valve into the exhaust pipe as instructed, and then click "Continue/Complete" to return to the function selection interface.



Statement:

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