BYD 2023 Yuan PLUS EV Multifunction Video Controller Static Calibration

Tested Model: BYD 2023 Yuan PLUS EV

Function Description:

This function is used to perform static calibration of the front camera for Yuan PLUS EV. This function needs to be executed when the following situations occur:

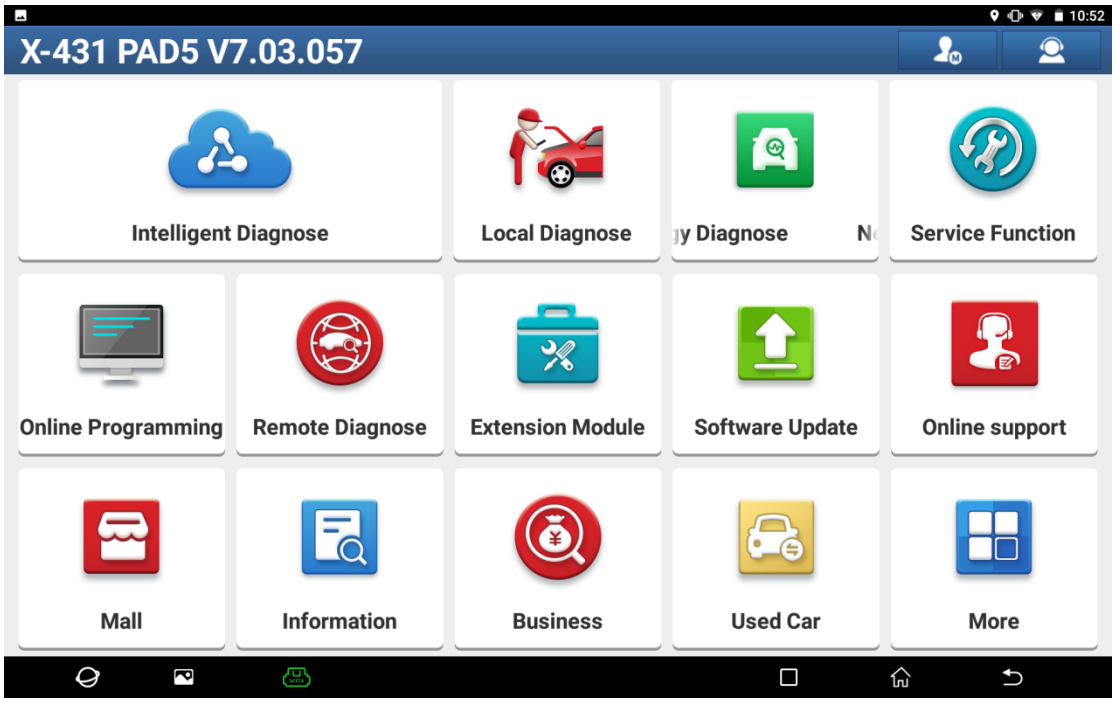
1. The front camera or multifunction video controller is replaced.
2. The front windshield is replaced.
3. The body structure is changed and the chassis is adjusted.
4. There are DTCs related to no-calibration.

Execution Conditions:

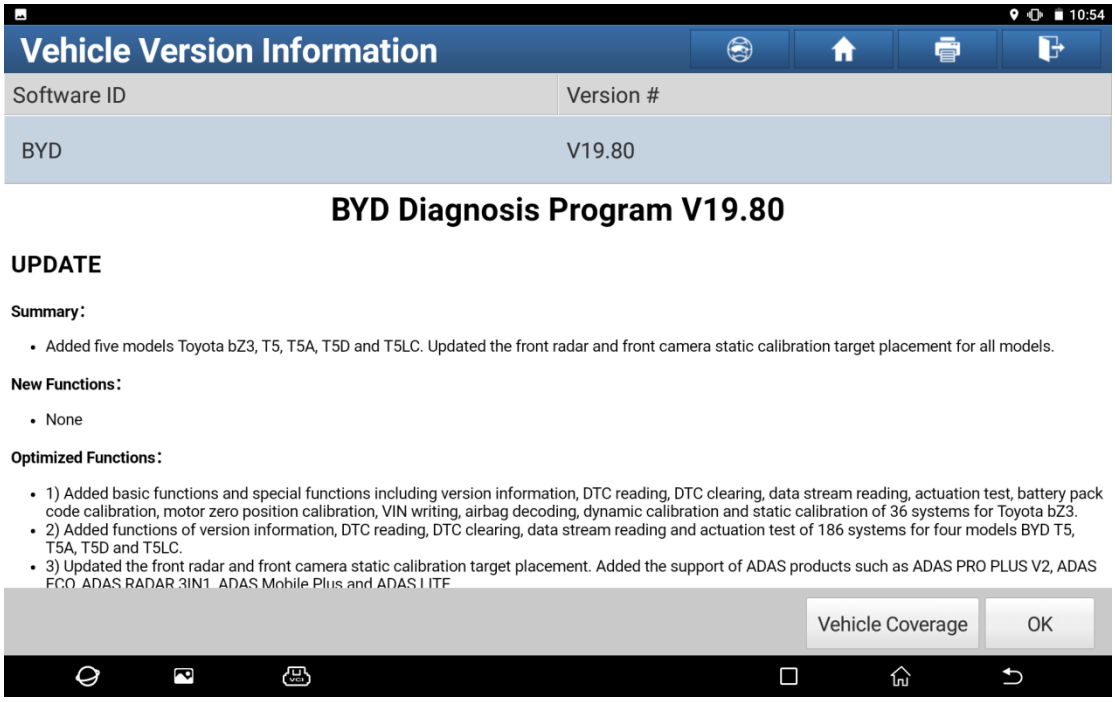
- The ADAS device is activated.
- The target and target placement tool are available.
- The calibration site is suitable.
- The ignition switch is in the ON position.
- The diagnostic instrument is connected to the network.

Procedure:

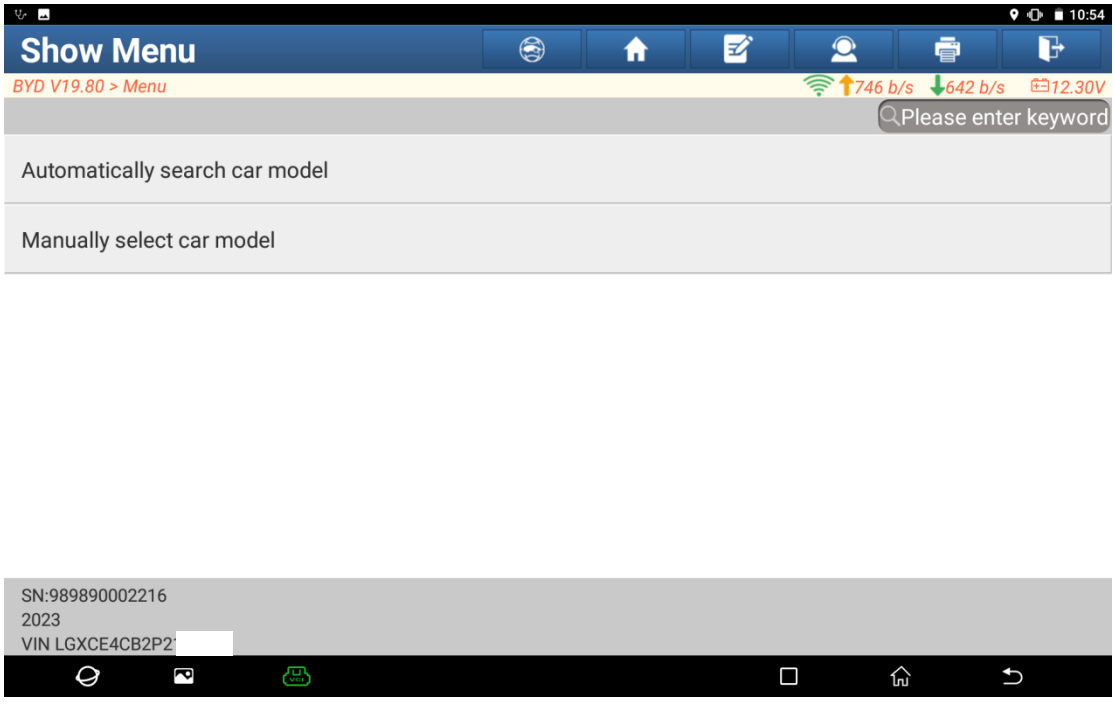
1. On an X-431 PAD 5, choose [Local Diagnose], and then choose [BYD] for testing.



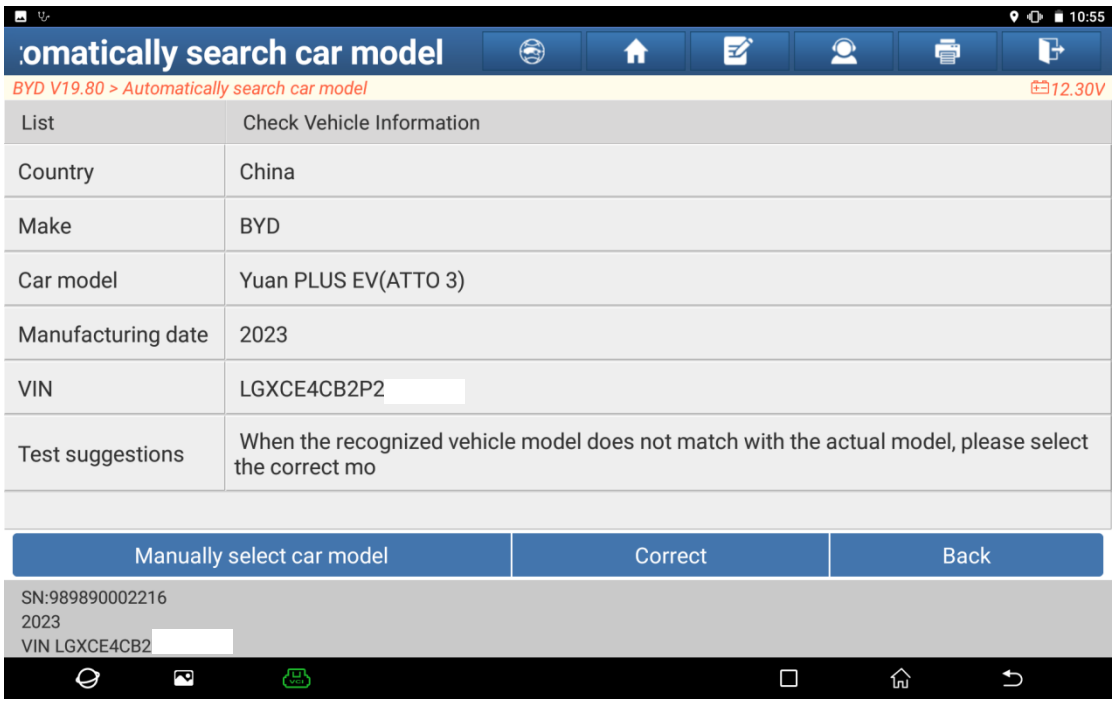
2. Choose the latest BYD software upgrade version V19.80 or later. Click OK.



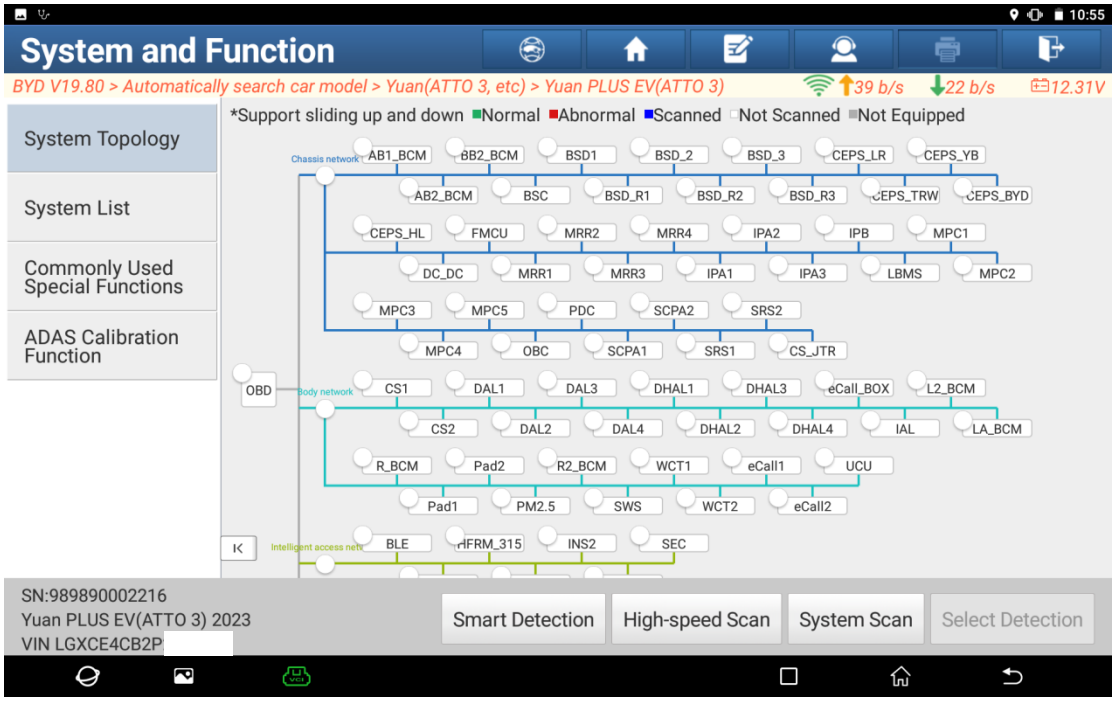
3. Choose [Automatically search car model].



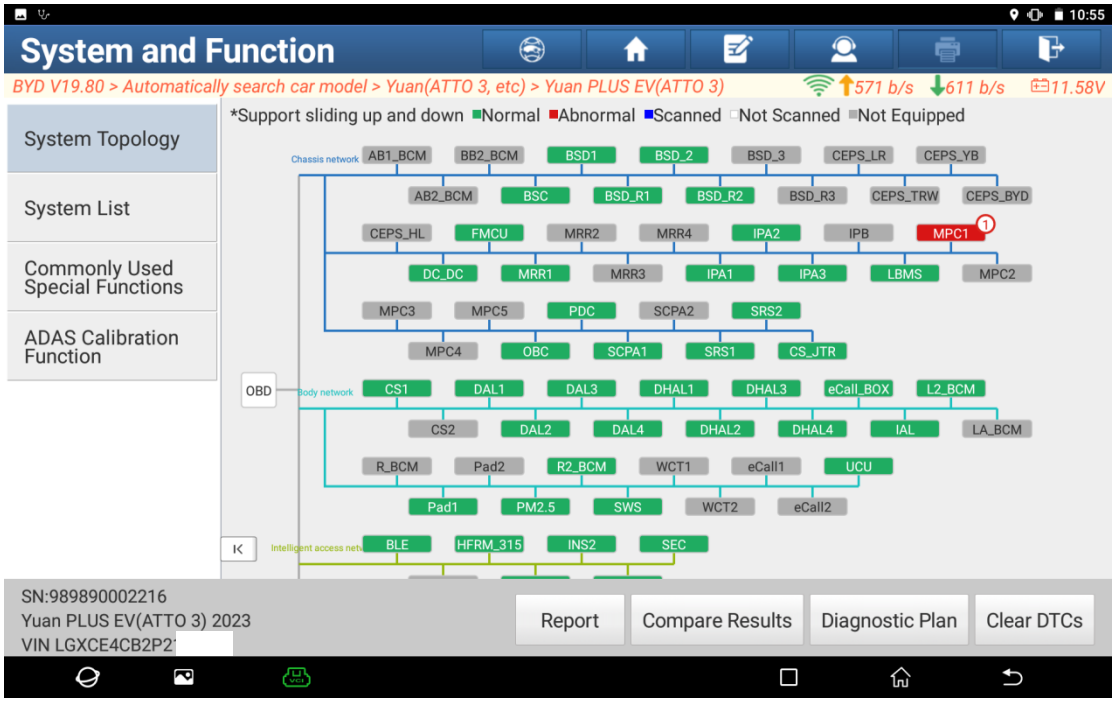
4. Determine whether the identified model is consistent with the actual model. If they are consistent, click [Correct]. Otherwise, click [Manually select car model] to select the correct model for testing.



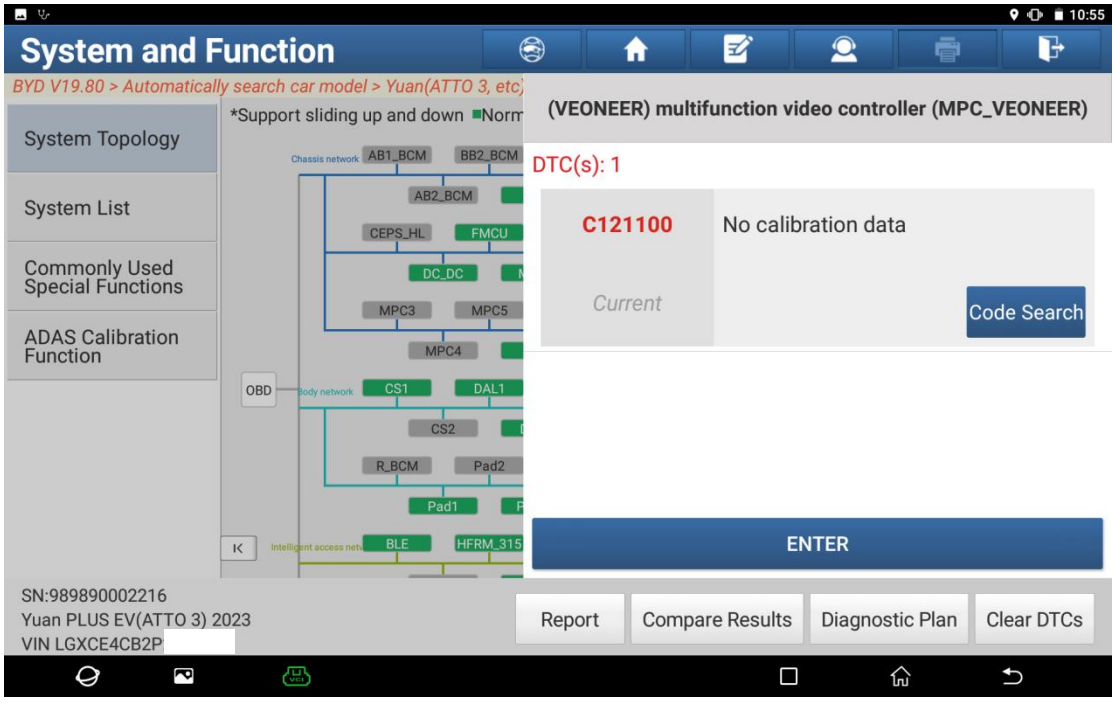
5. Click [High-speed Scan].



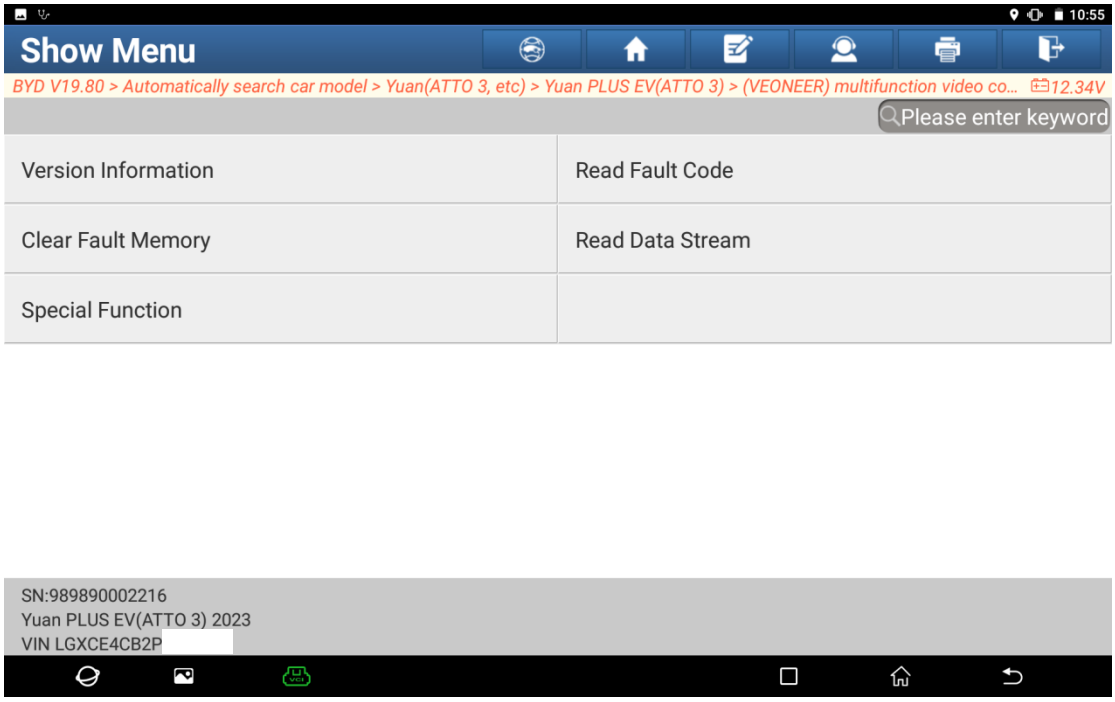
6. The correct front camera system is scanned out. Choose [MPC1] (VEONEER) multifunction video controller (MPC_VEONEER).



7. Click [ENTER].

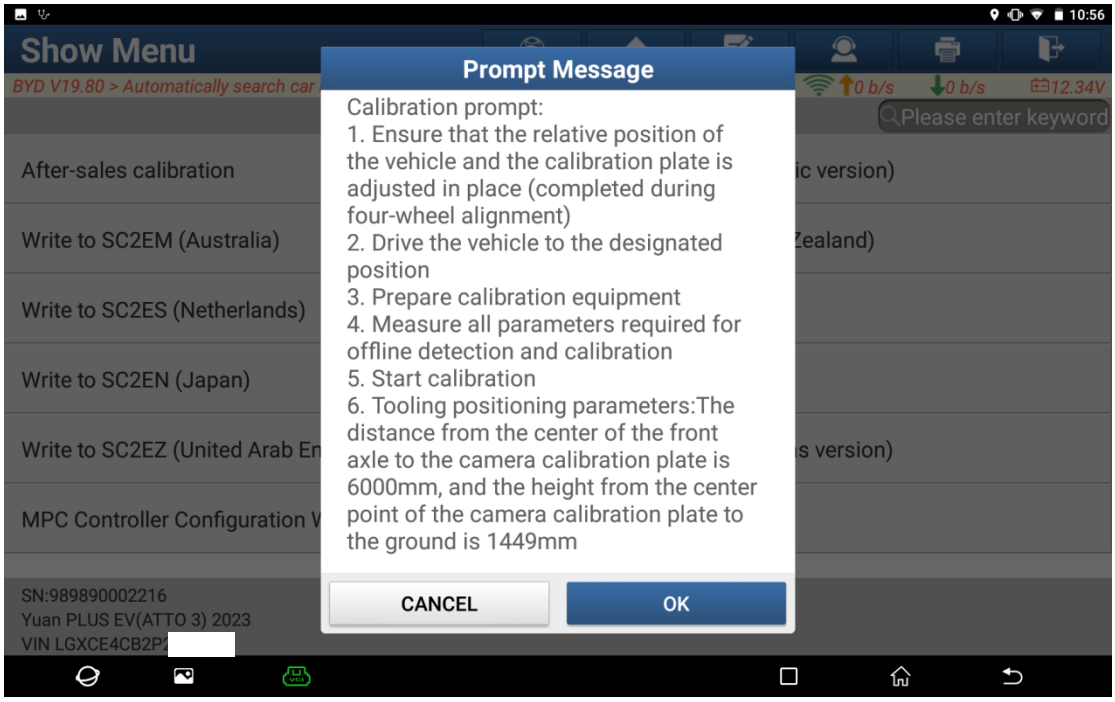


8. Click [Special Function].

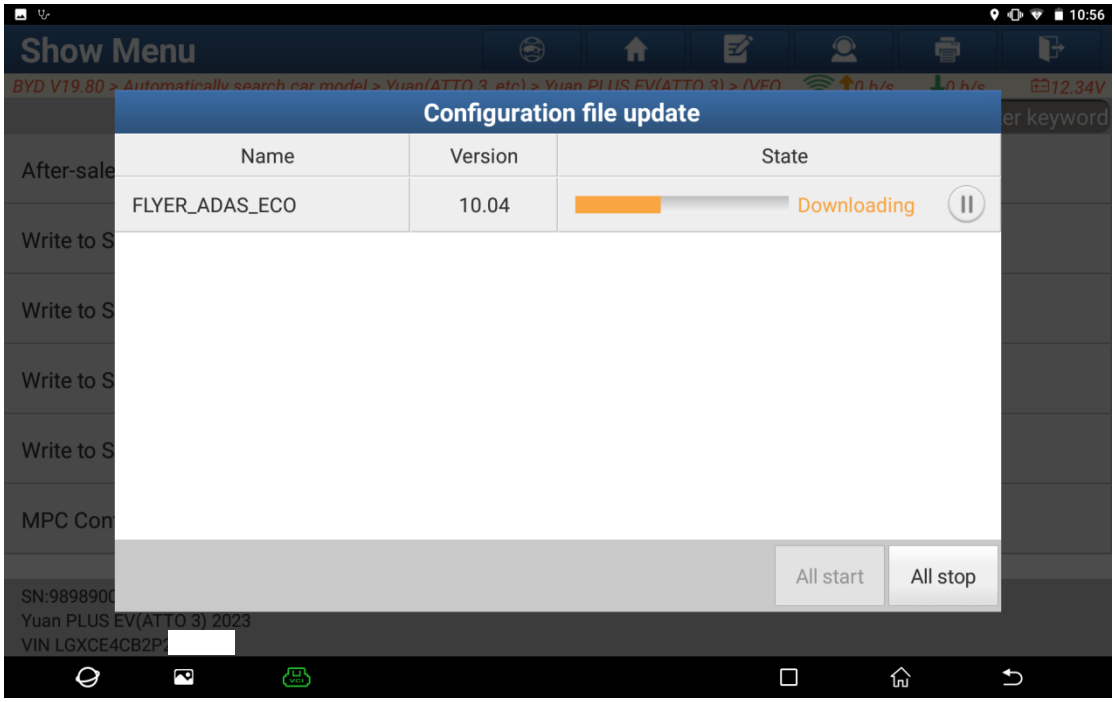


9. Click [After-sales calibration].

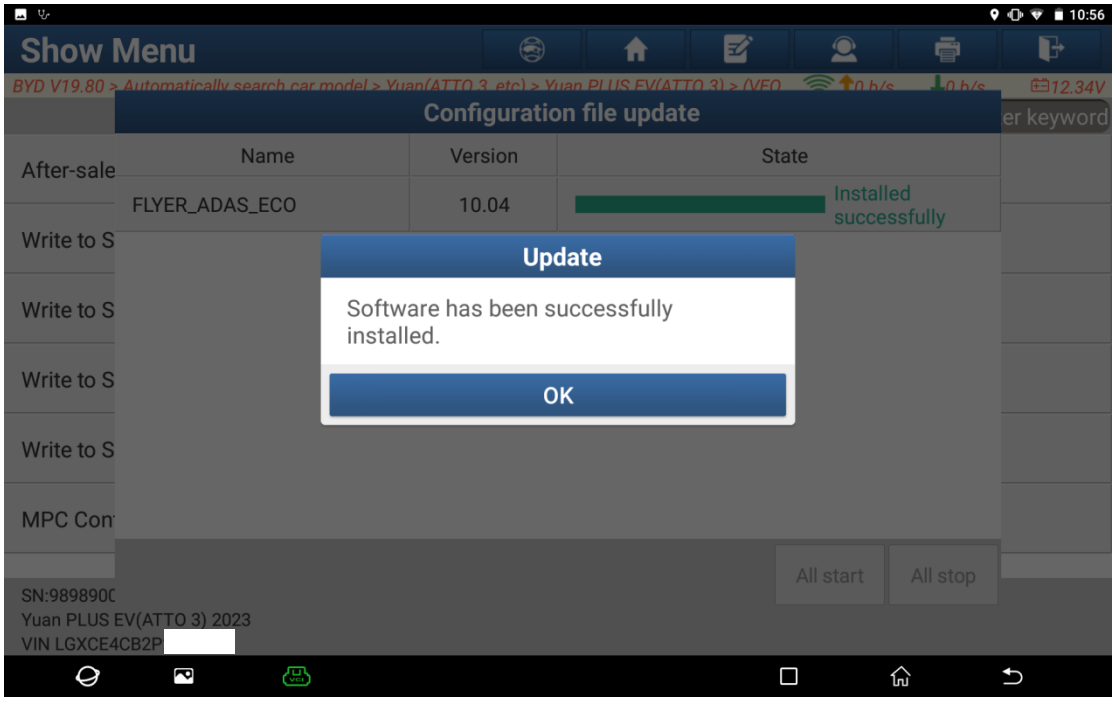
10. Drive the vehicle to a location suitable for calibration and click OK.



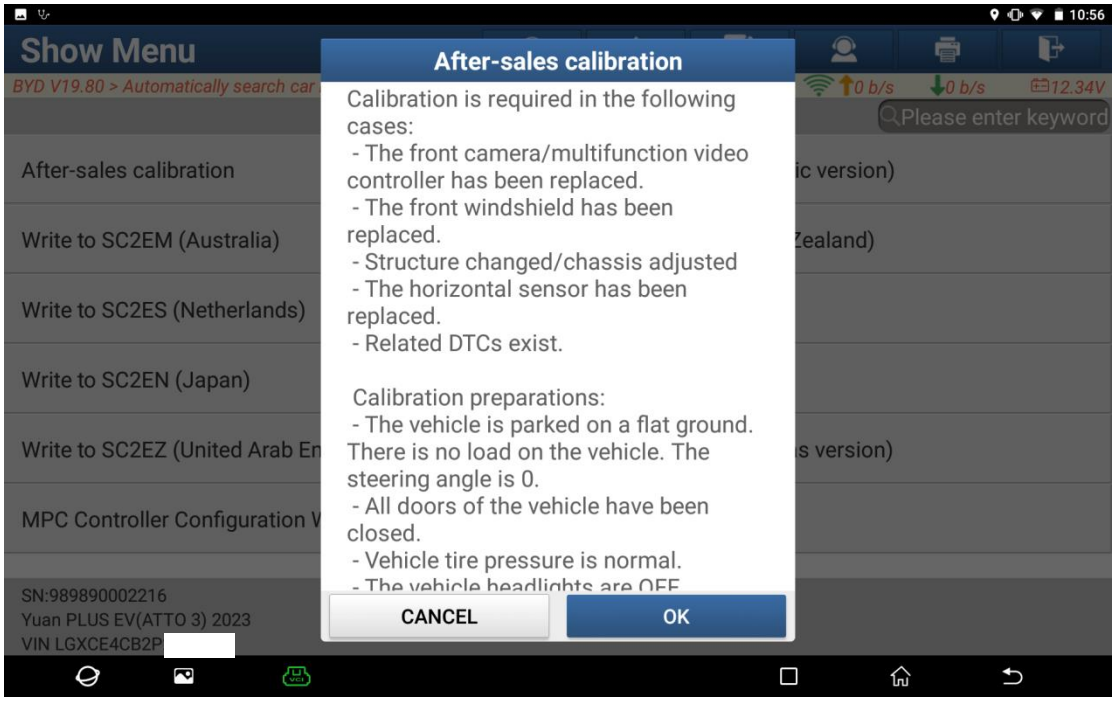
11. Taking the ADAS ECO product as an example, update the FLYER_ADAS_ECO configuration file to the latest version. If it has been updated, it does not need to be updated.



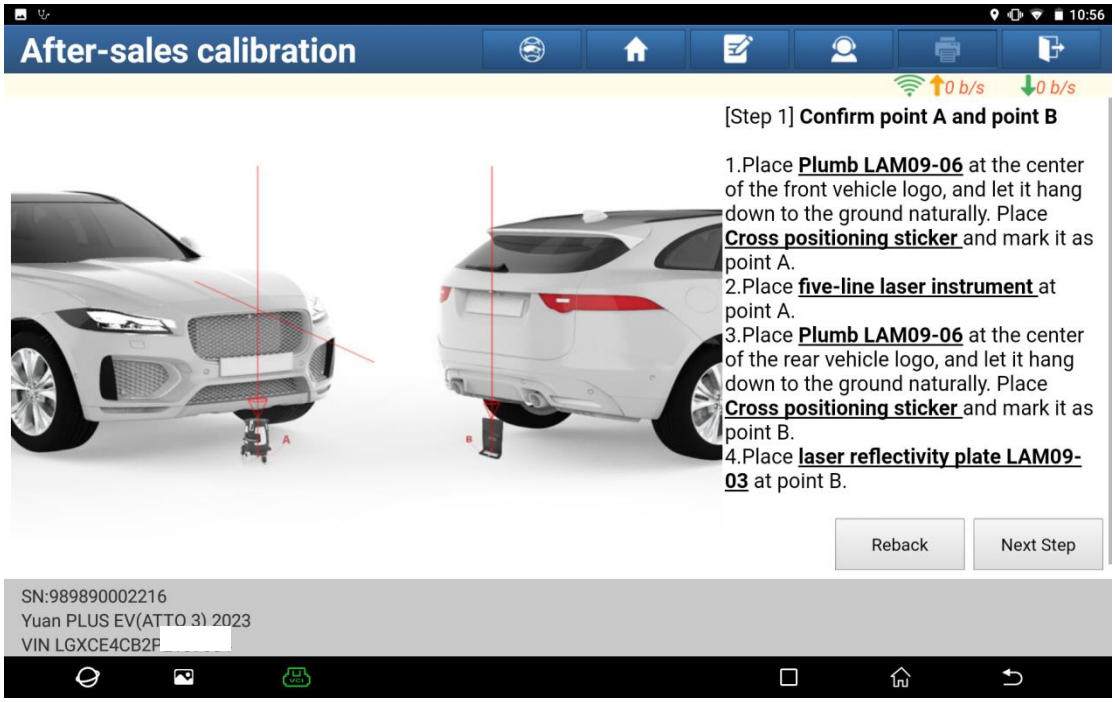
12. The configuration file is updated successfully. Click OK.



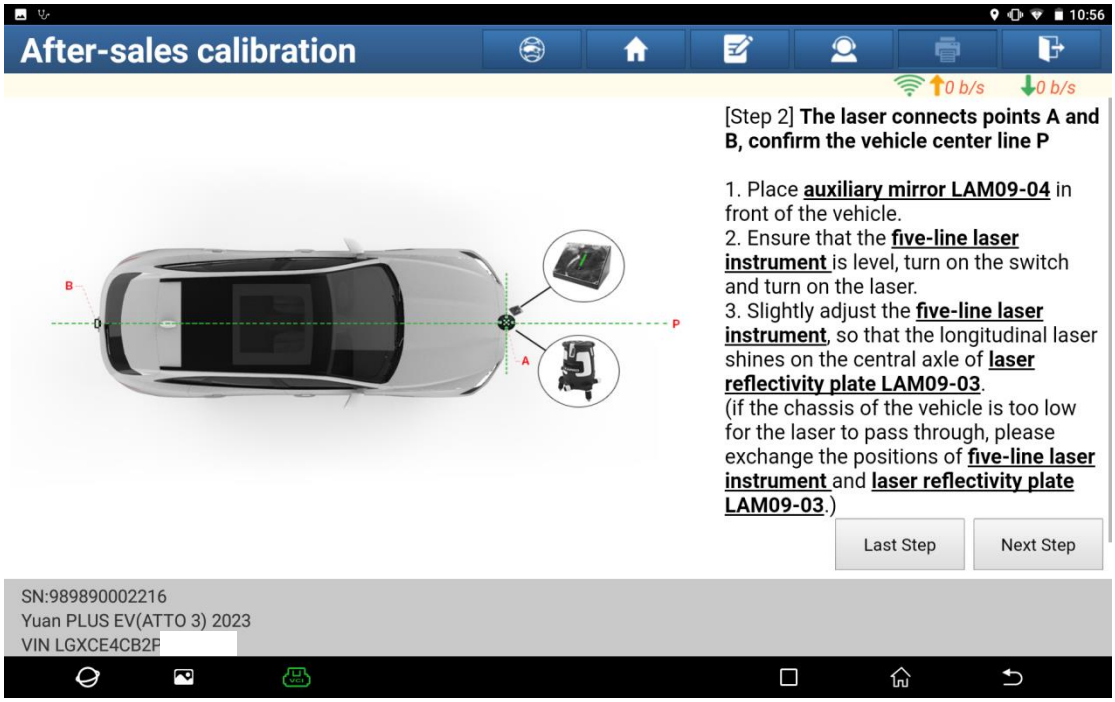
13. After the preparation before calibration is completed, click OK.



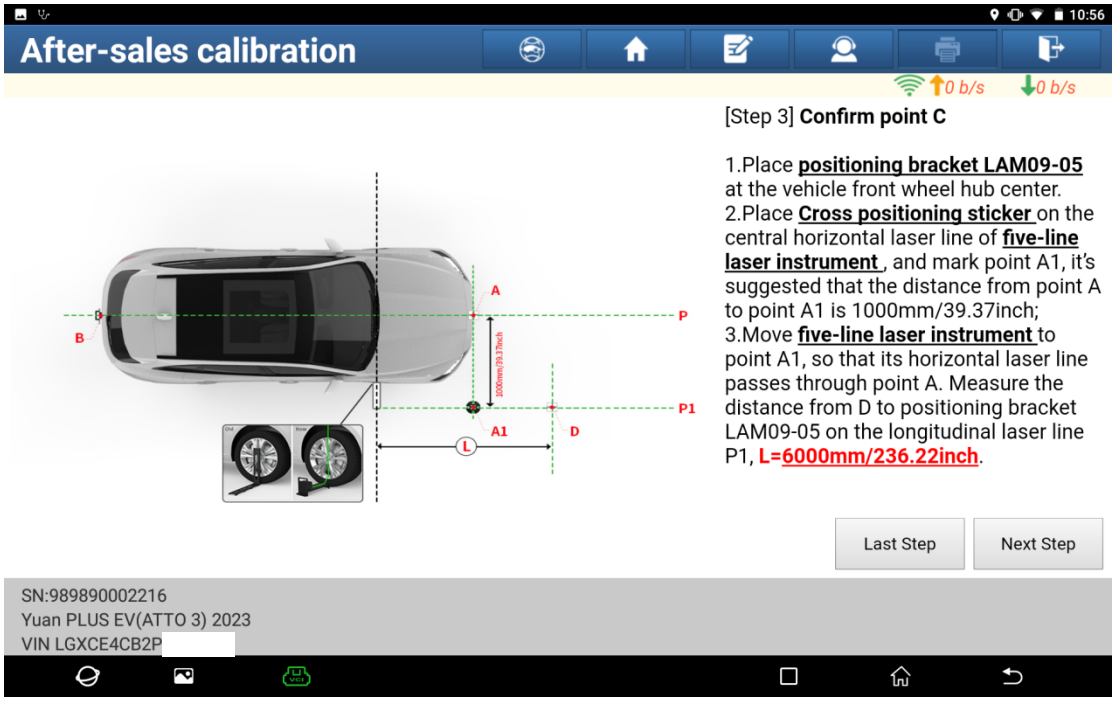
14. Place the target according to the prompts. Step 1: Confirm point A and point B, and click [Next Step].

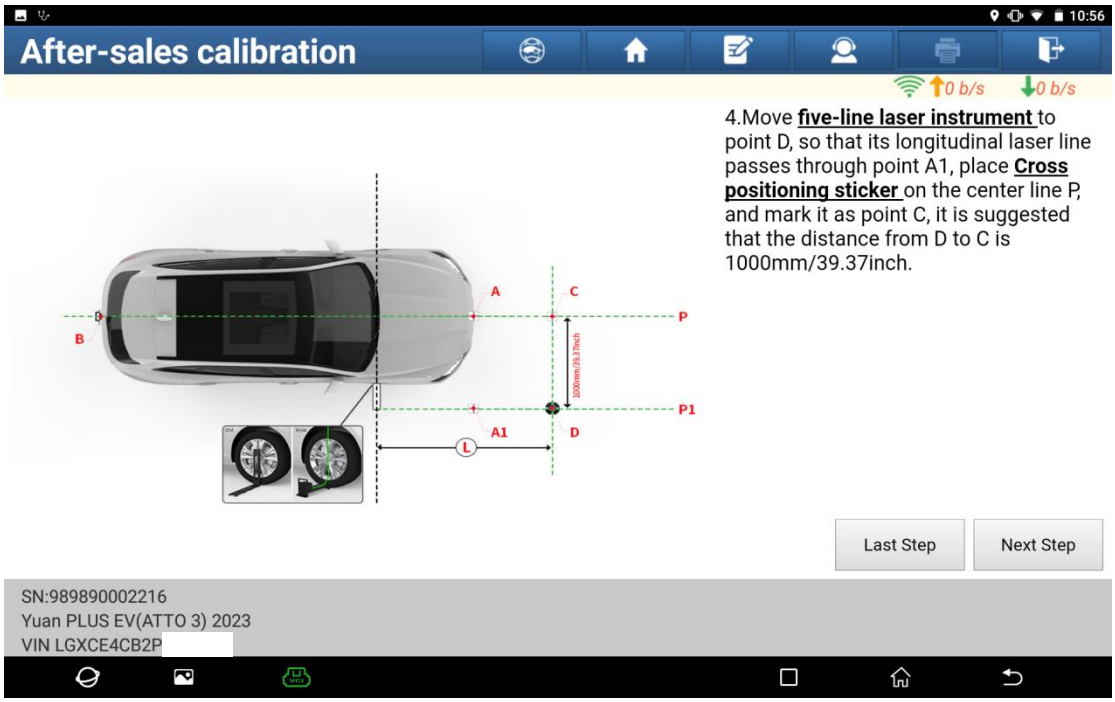


15. Step 2: Connect points A and B with laser, confirm the vehicle center line P, and click [Next Step].

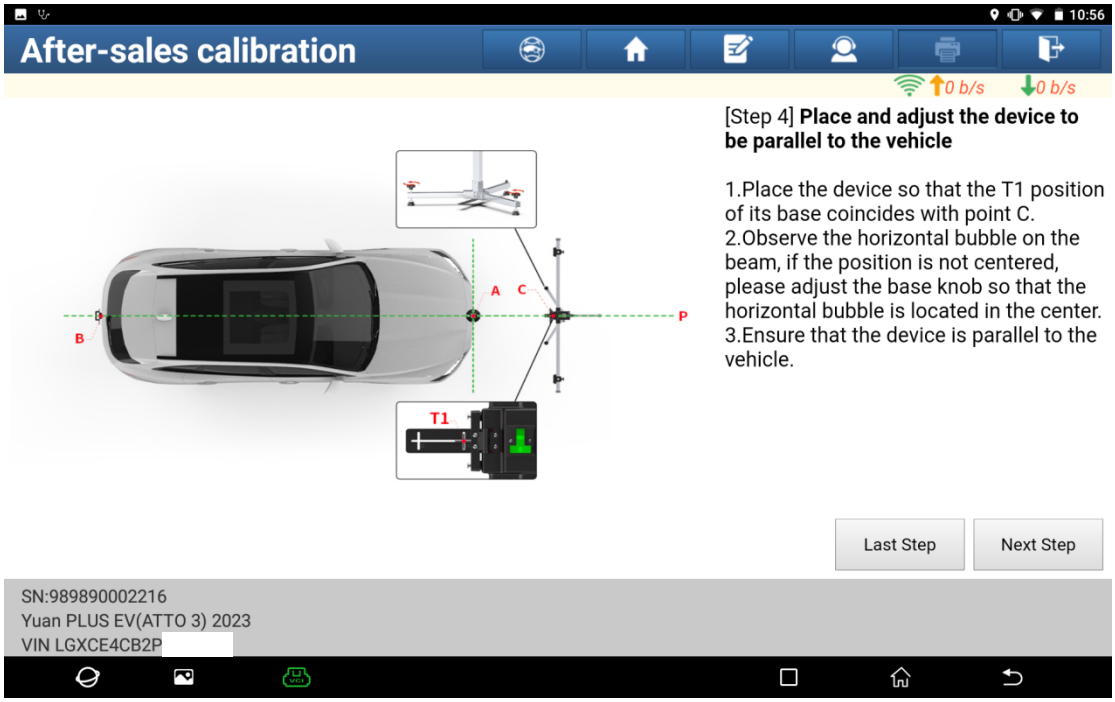


16. Step 3: Confirm point C and click [Next Step].



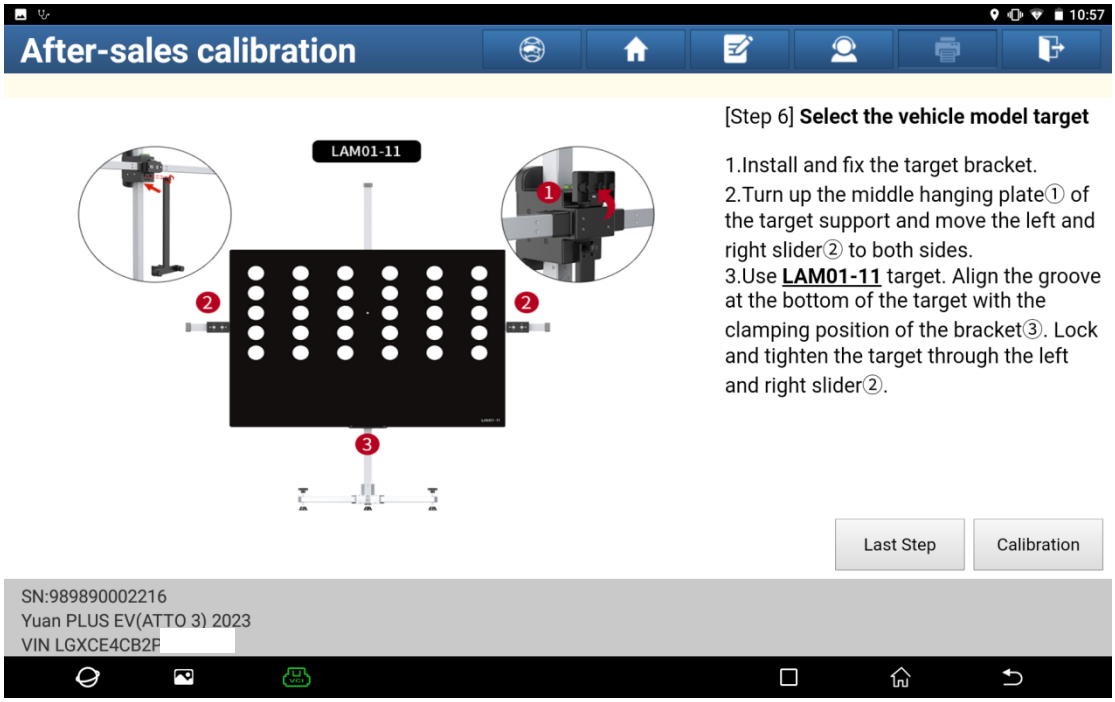


17. Step 4: Set and adjust the device to be parallel to the vehicle, and click [Next Step].

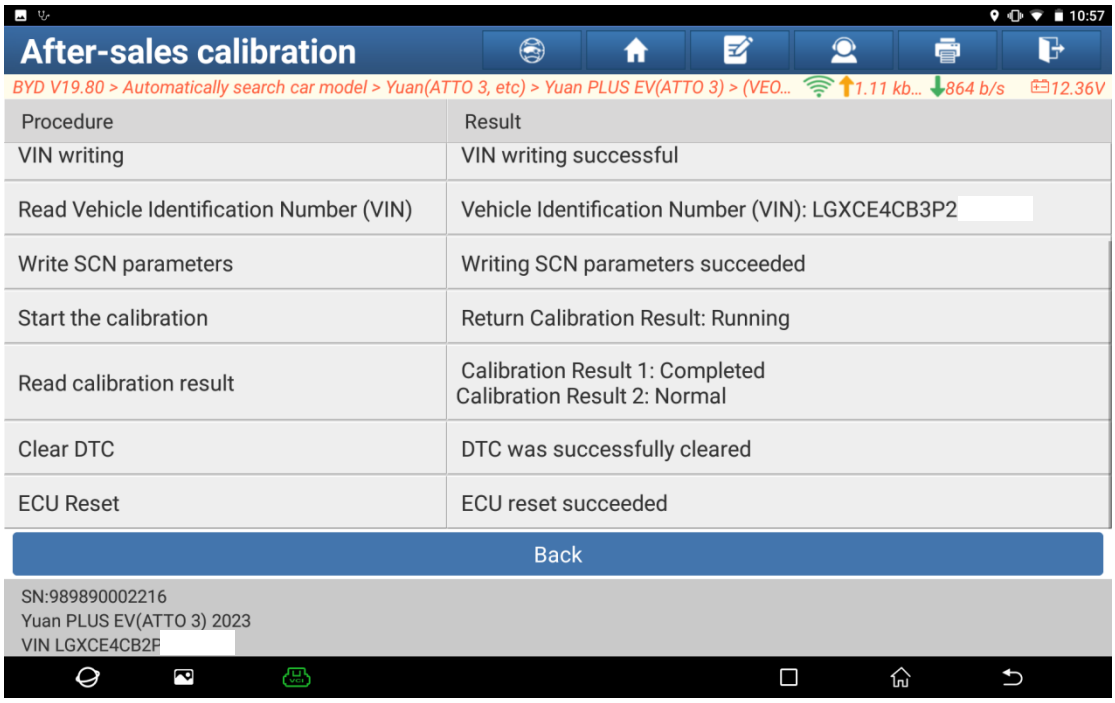


18. Step 5: Set the height and click [Next Step].

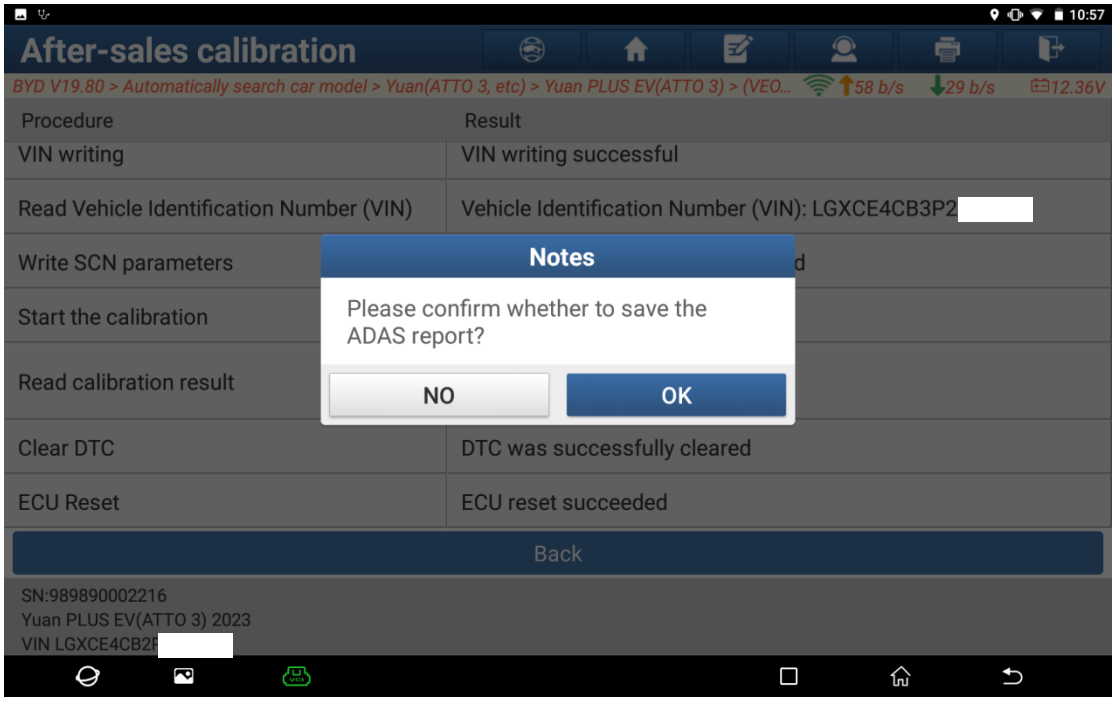
19. Step 6: Select the vehicle model target. BYD uses the Romeo target (LAM01-11). Click [Calibration] to start calibration.



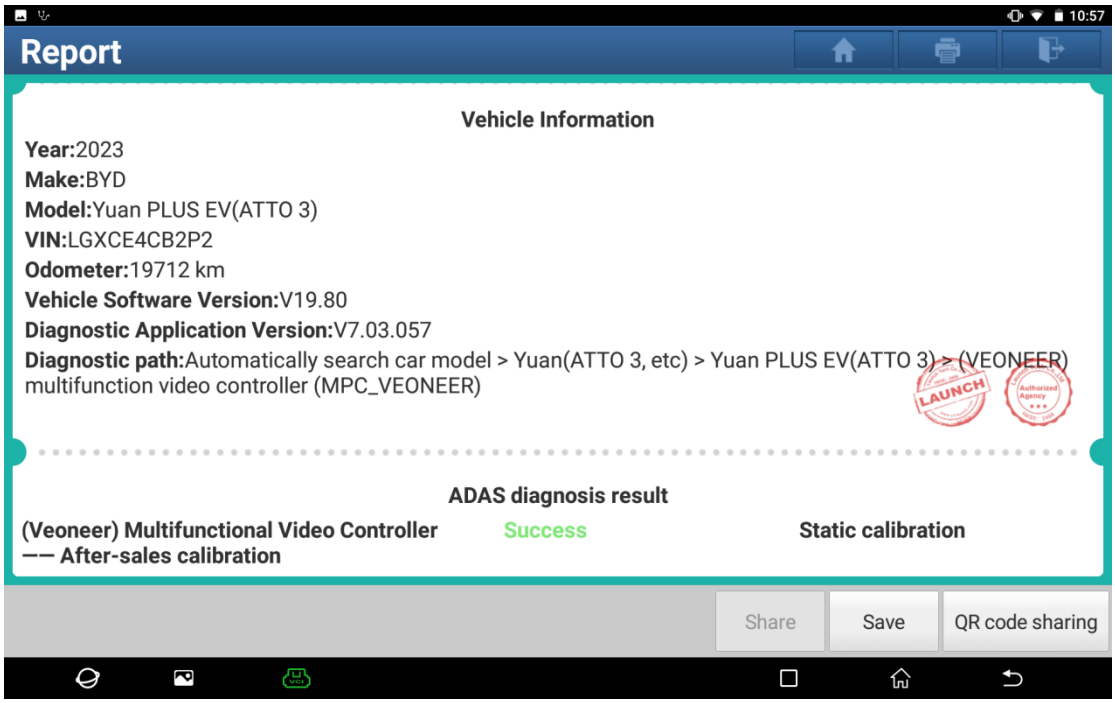
20. Read the calibration results. If the “Calibration Result 1: Completed, Calibration Result 2: Normal” is displayed, the calibration is successful. If it fails, adjust according to the failure prompt, and you can re-calibrate for multiple times. Click [Back] to exit the calibration.



21. Click OK to save the ADAS report or click NO to exit.



22. Save the ADAS report, showing that the calibration was successful.



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