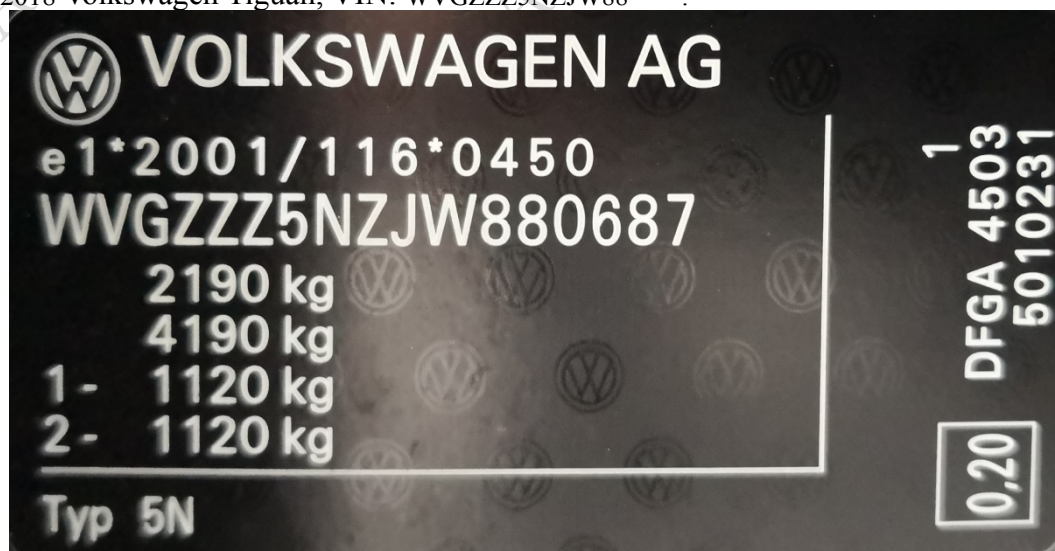


Operating Instructions for Front Camera Calibration of 2018 VW Tiguan

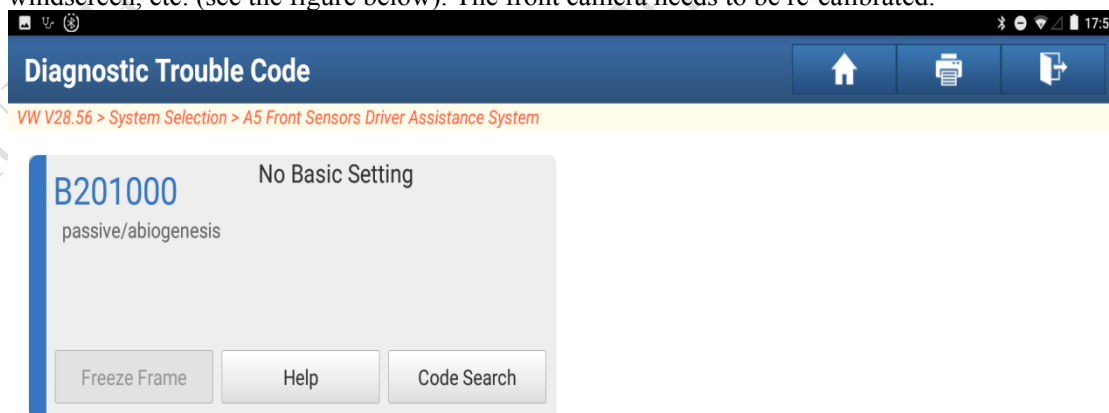
Measured model:

2018 Volkswagen Tiguan, VIN: WVGZZZ5NZJW88****.



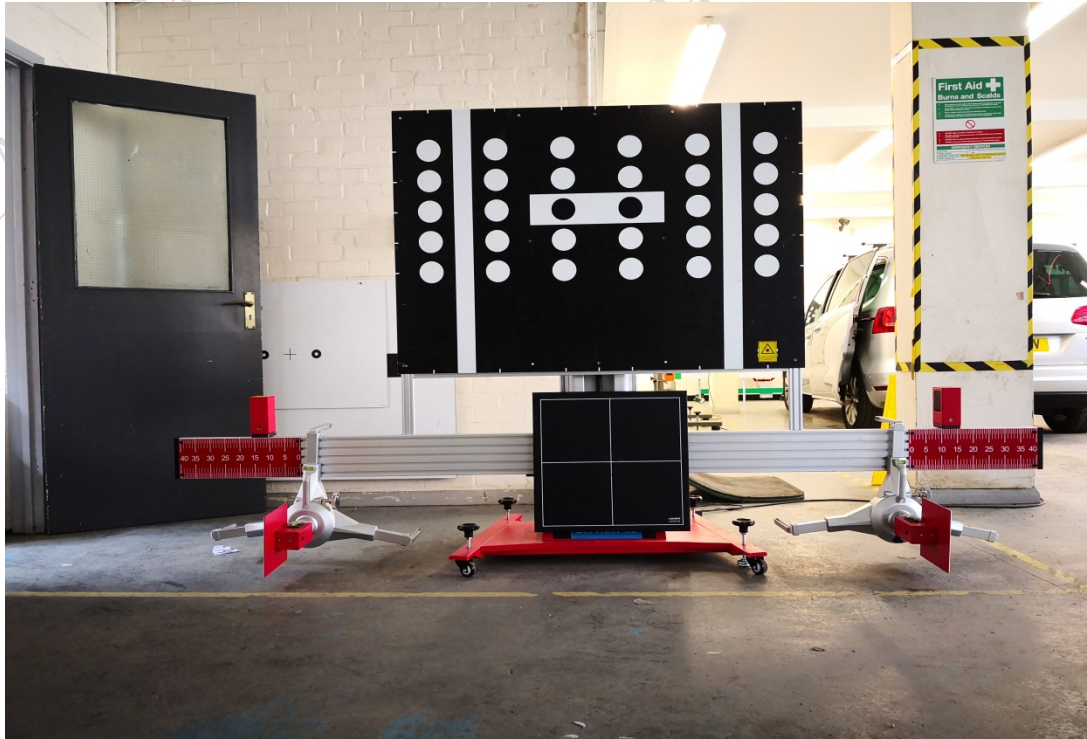
[Background of performing this function]

The following DTC appears due to the replacement of the front camera system, or front windscreen, etc. (see the figure below). The front camera needs to be re-calibrated.



[Instructions]

1. Please place the 'ADAS calibration' tool correctly according to the 'X-431 ADAS PRO Operation Guide' and get the vehicle ready to drive into the workshop (as shown below)!



2. Ensure that the vehicle is parked on a flat surface; check that the interior of the vehicle and the trunk are empty because the car must not be loaded with heavy objects and person. It is best not to fill up the fuel tank. The direction in which the vehicle is placed should be perpendicular to the calibration tool. The body of the vehicle must be straightened. The vehicle battery has to be connected to an external regulated power supply. The front and rear wheels must be in a straight line. Make sure that the steering wheel is centered, shown as follows:



3. Check if the tire pressures of the four wheels reach the standard and the tire pressure standard is generally on the driver's door side or at the fuel tank filler. The vehicle should not be loaded with person or heavy objects. The standards corresponding to the models of

the tires may be different, shown as below:



4. Please adjust the distance between the center position of the front wheel of the vehicle and the ADAS calibration tool to around 1.5 meters, with an error of 2.5cm, as shown below:



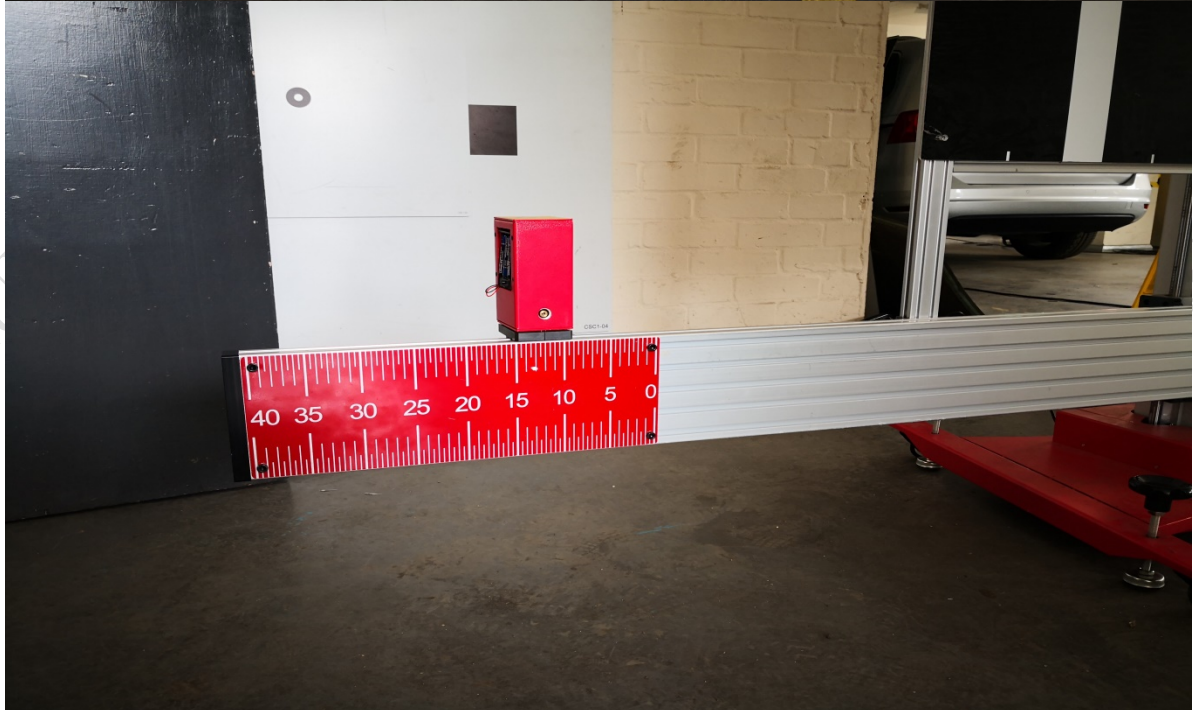
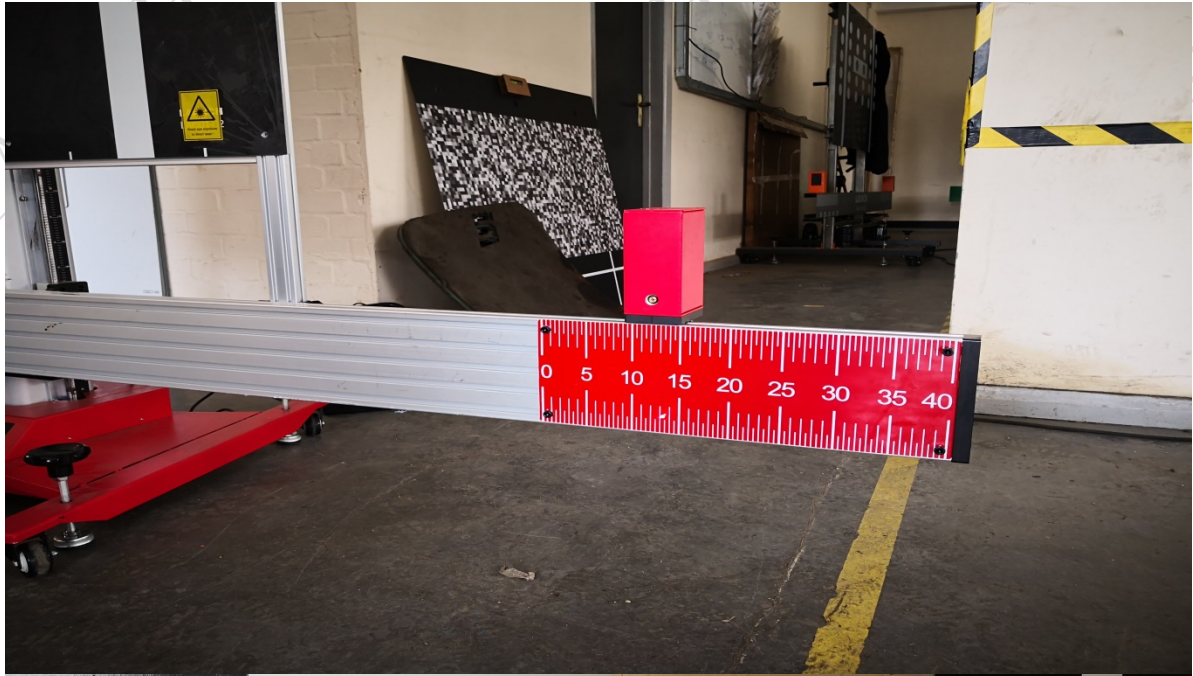
5. Please follow the 'X-431 ADAS PRO Operation Guide' to adjust the 'ADAS tool'. Ensure that the vehicle is in the middle of the calibration tool and the calibration tool is parallel to the vehicle. Here are just a few points to be noted: the three fixed positions of 3 points wheel alignment clamp must be close to the rear wheel, leaving no gap.



The bubbles on the 3 points wheel alignment clamp are in the middle position, as shown below:



Make sure that ray positions of the rear right wheel and rear left wheel are equal. If they are not equal, move the calibration board to the left or right horizontally, as shown in the figure:



Adjust the calibration board and the horizontal position of the vehicle. One way is to move the centers of laser modules (red squares) in the above figure to the positions of the light spots, separately, observe their ray positions on 3 points wheel alignment clamps and move the calibration board back and forth to make the scales on both side are the same.





6. Turn on the ignition switch of the vehicle, connect the connector of X431 PAD V and enter ADAS (V28.55 or higher). After entering, the following main menu will be displayed.

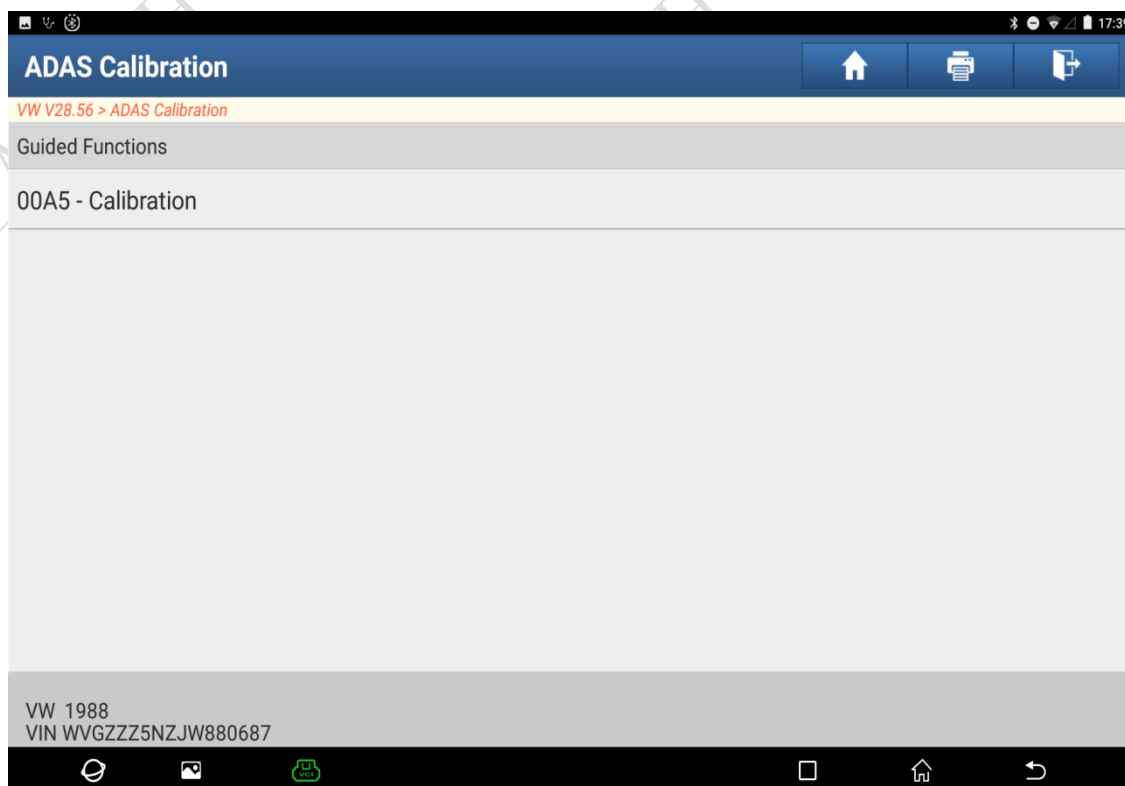


7. Select Tiguan model (2018 model year) and click 'Confirmed'.

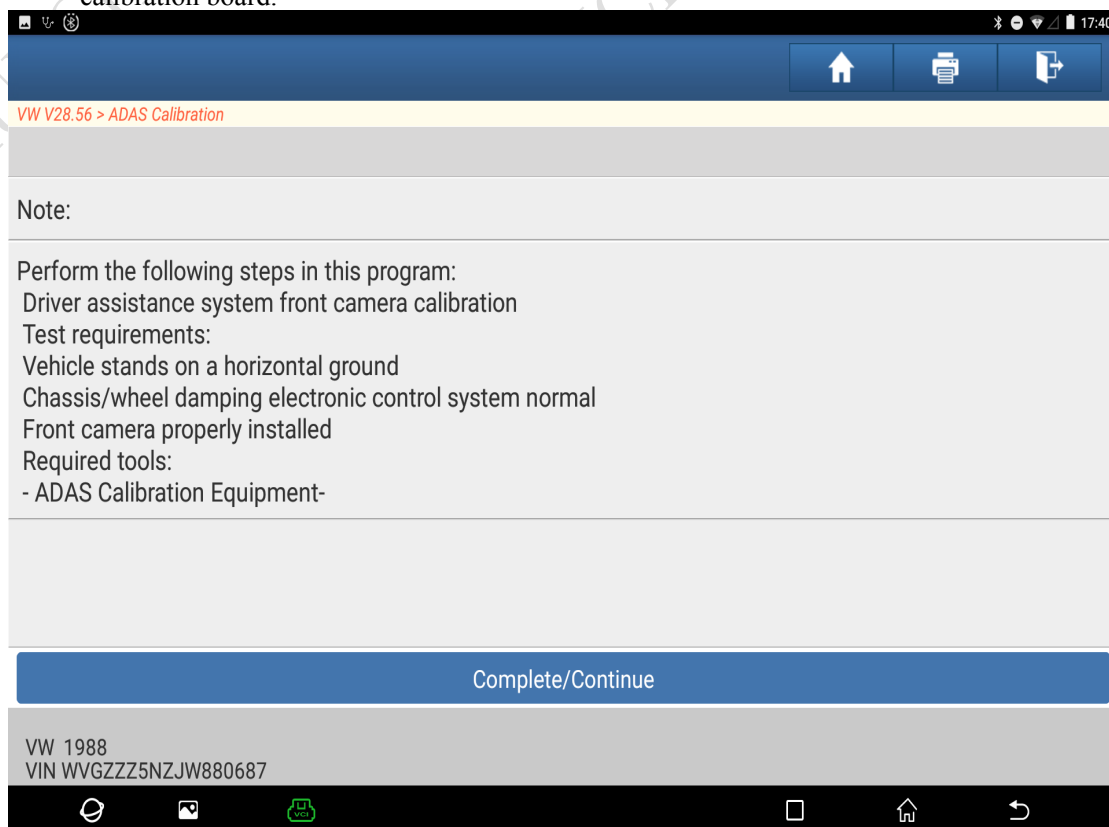


8. Then select [A5 Front Sensors Driver Assistance System] and [00A5 calibrate]:

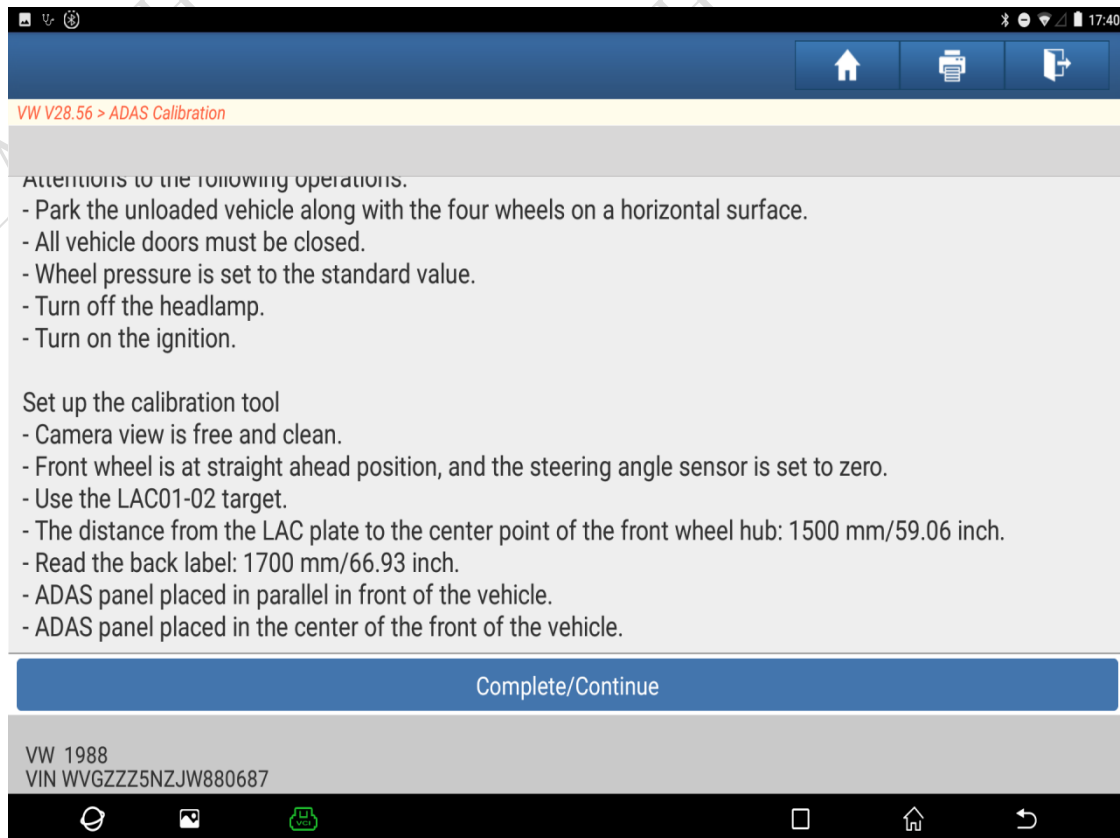




9. Click 'Confirmed'. The following prompt is displayed. It is necessary to determine the distance between the center of the front wheel to the calibration board and the height of the calibration board.



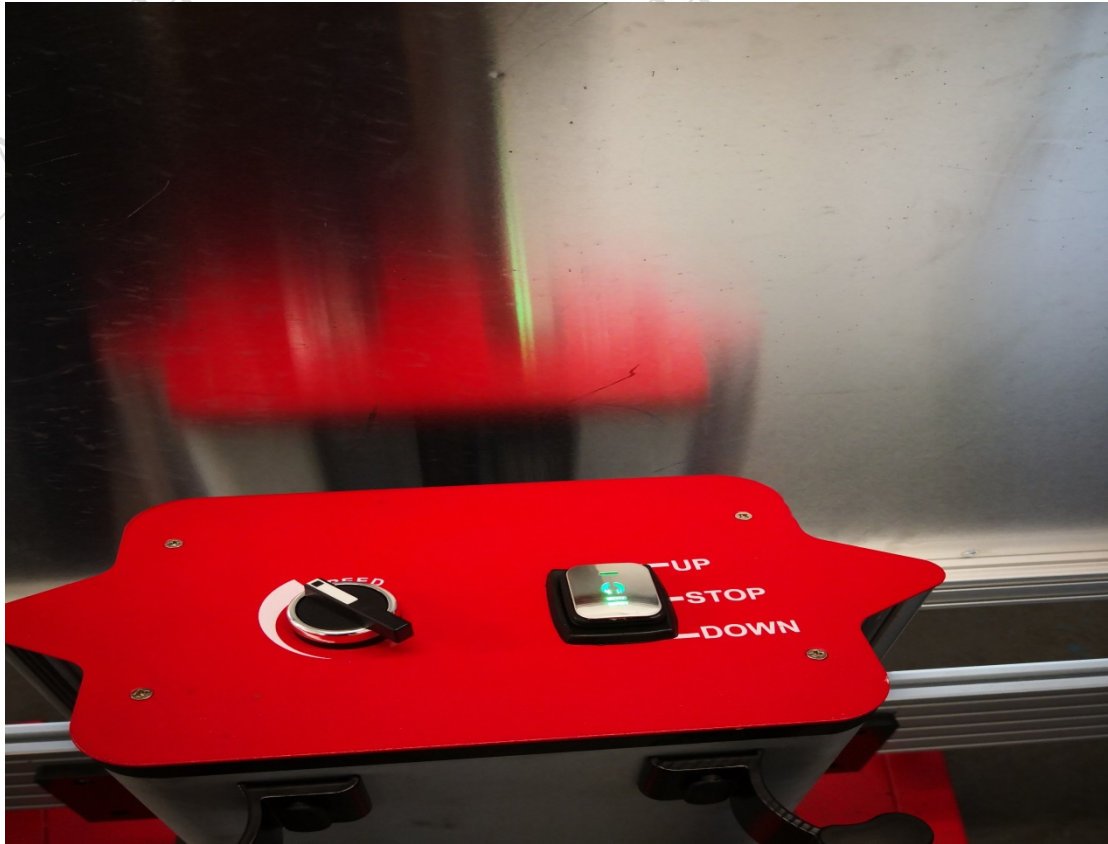
The calibration board of LAC01-02 is to be used. Adjust its height to 1.7 meters.



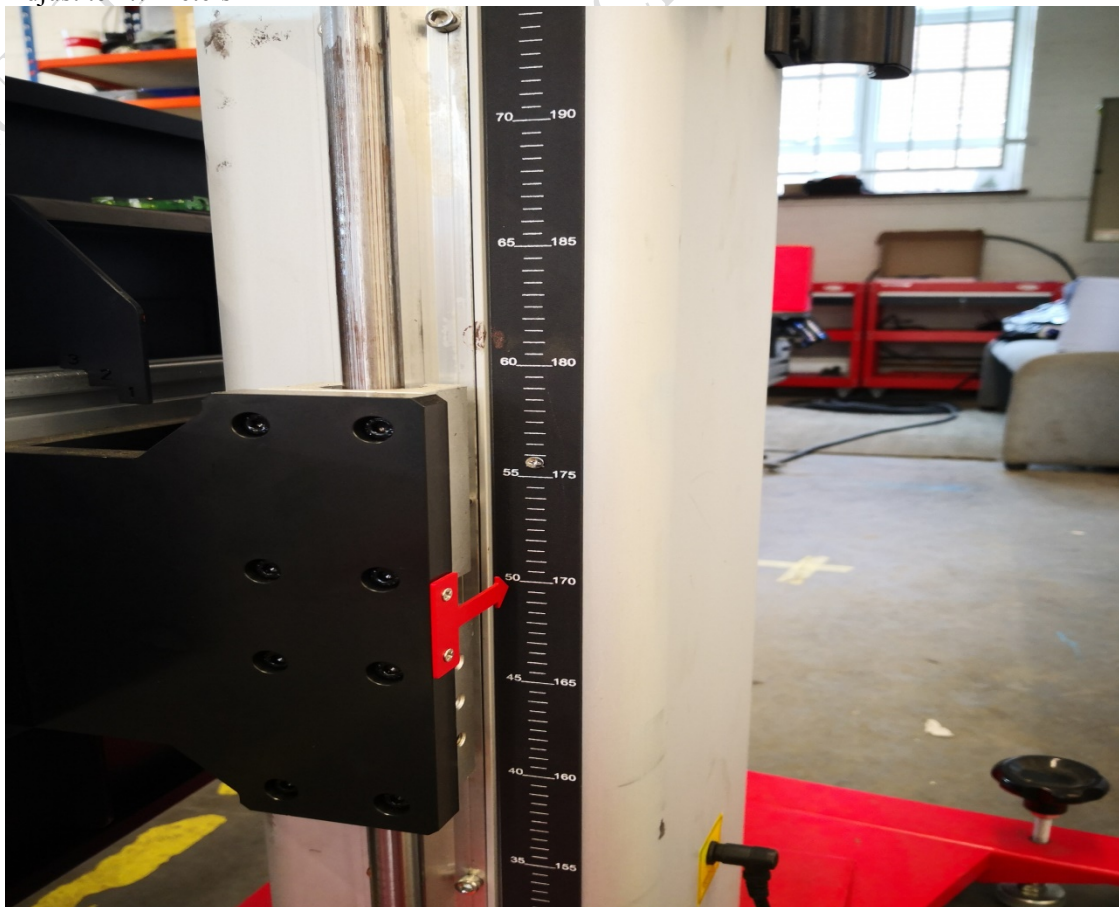
LAC01-02 calibration board, as shown below:



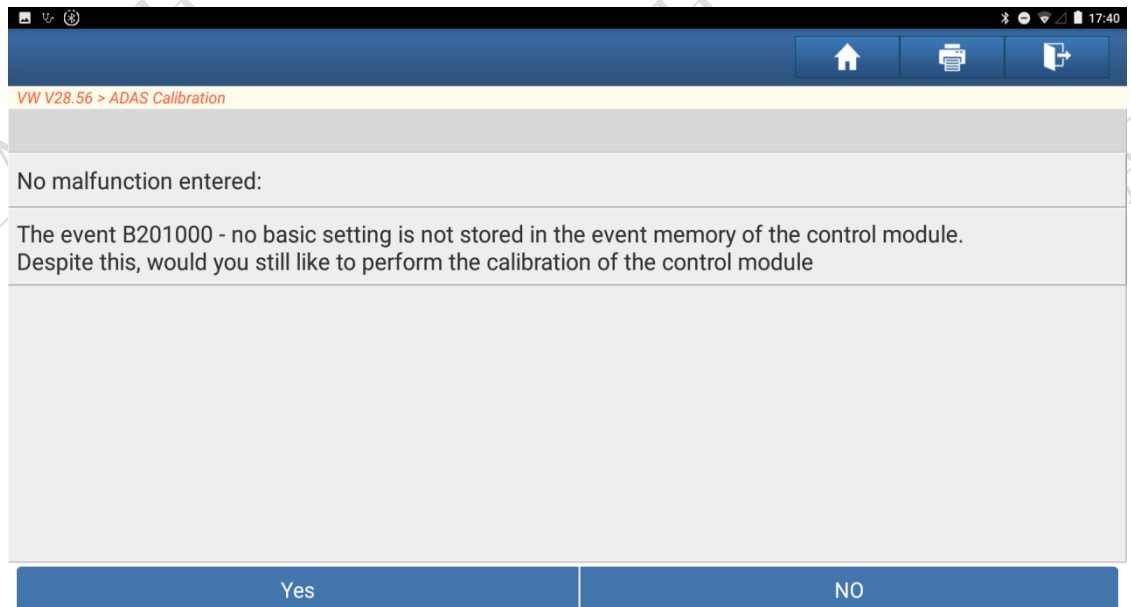
Adjust the height to 1.7 meters, as shown below:



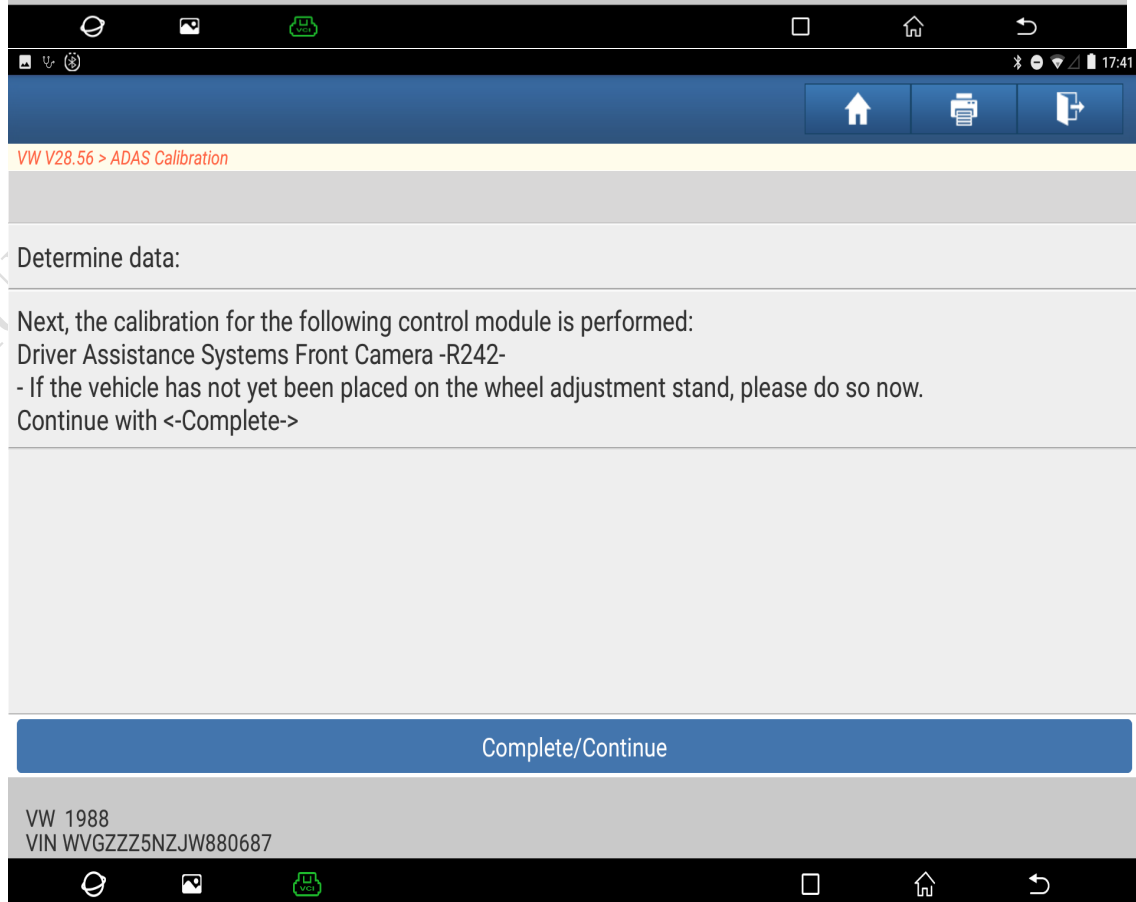
Adjust to 1.7 meters



10. Then start to perform front camera calibration function. Click 'Yes', as follows:



VW 1988
VIN WVGZZZ5NZJW880687



Select according to the actual situation. Here we selected the '2' option as an example.

VW V28.56 > ADAS Calibration

Determine reason for calibration:

Which tasks have been performed previously on the vehicle?

- 1- Wheel alignment
- 2- Replacement of windshield, replacement of control module, customer complaints
- 3- Retrofitting special wheels that must be documented by means of an entry in the vehicle registration
- 4- Other preceding measures not specified above

CAUTION!
A wrong selection may lead to consequential damage and failure of the Driver Assistance Systems Front Camera -R242.

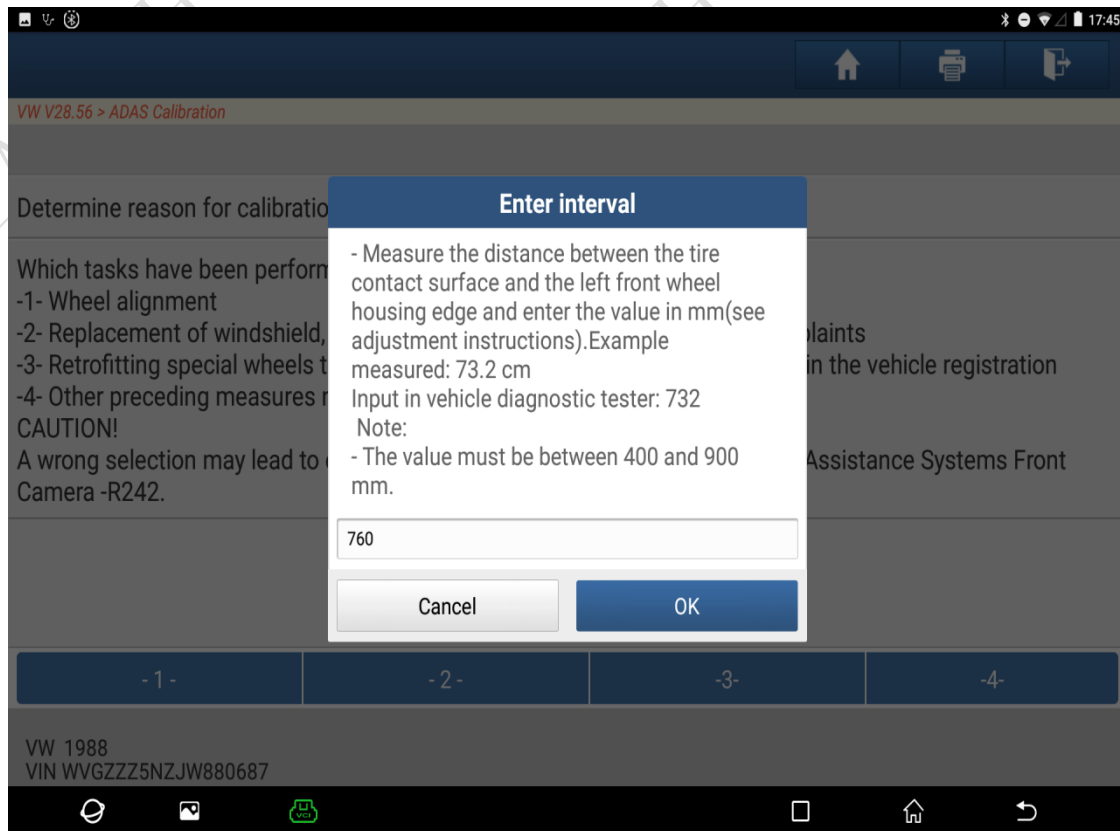
- 1 -	- 2 -	- 3 -	- 4 -
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VW 1988
VIN WVGZZZ5NZJW880687

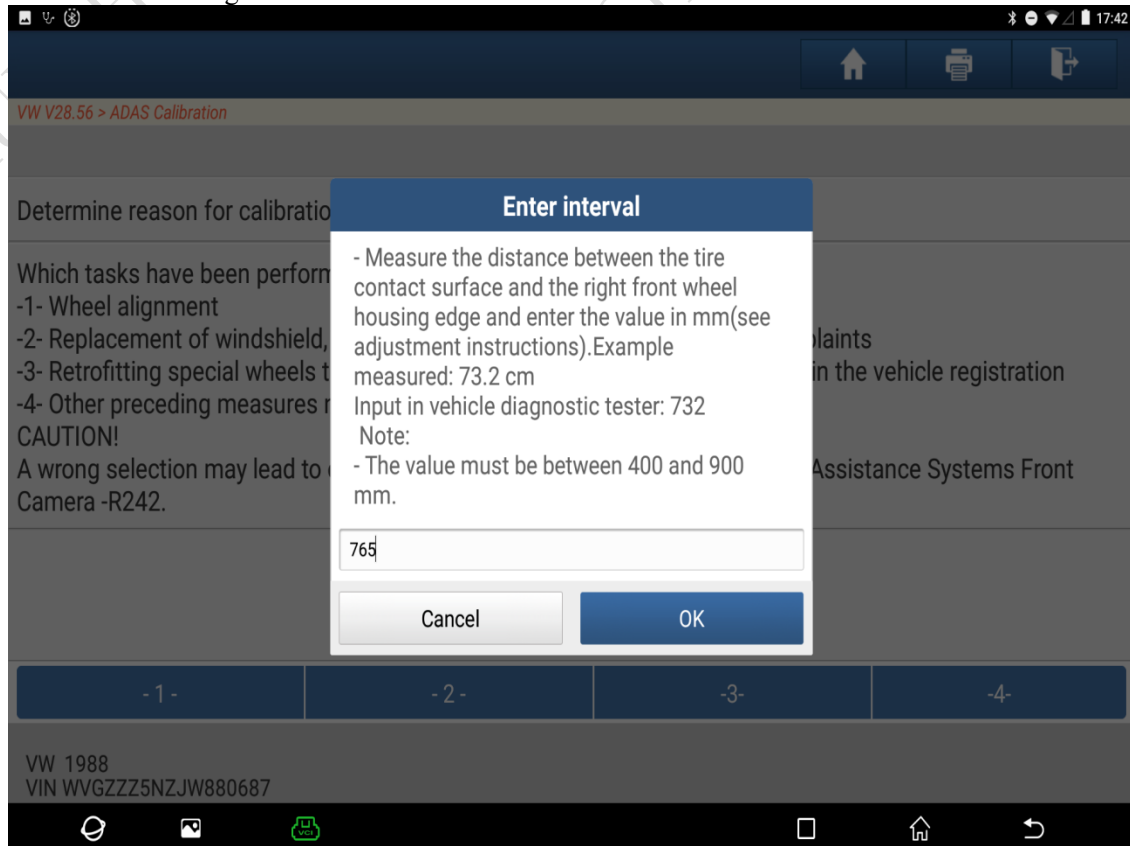
11. Start to enter the heights of the four tires (the height from the ground to the upper edge of the tire frame (unit: mm)), shown in the following figure:



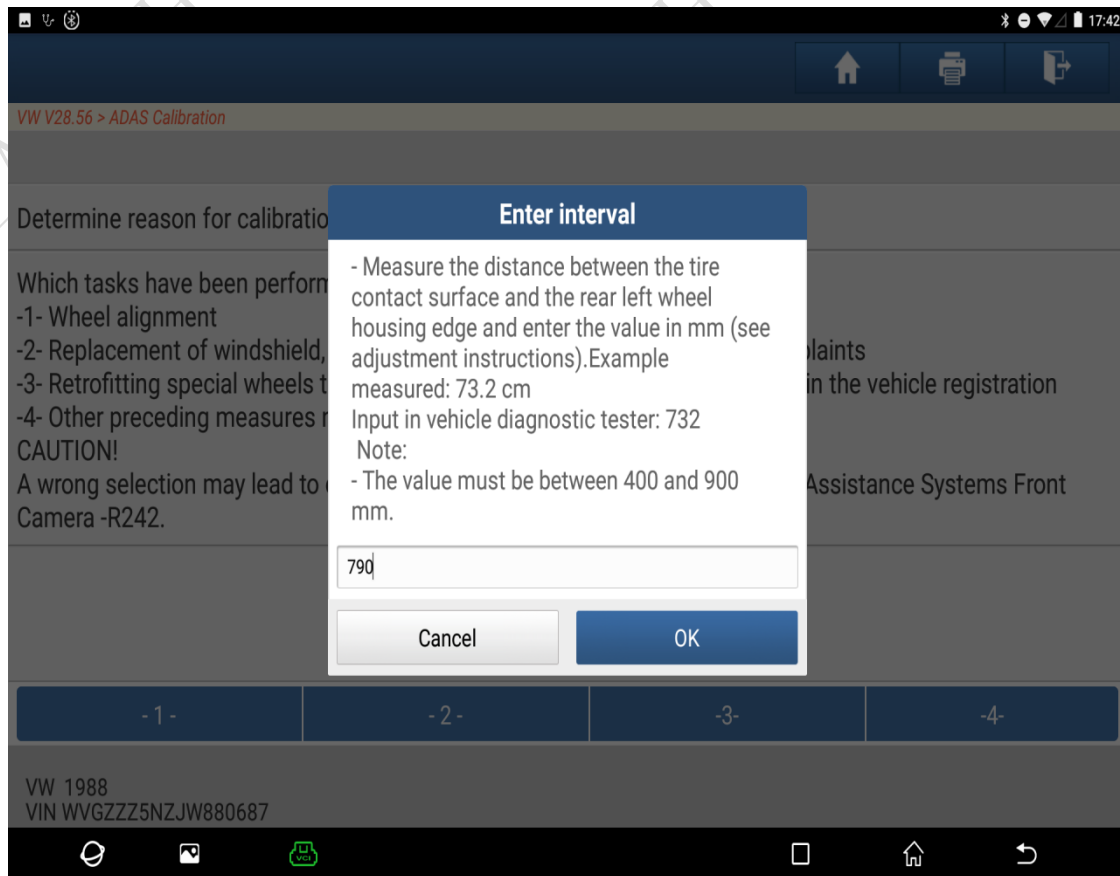
Enter FL wheel height



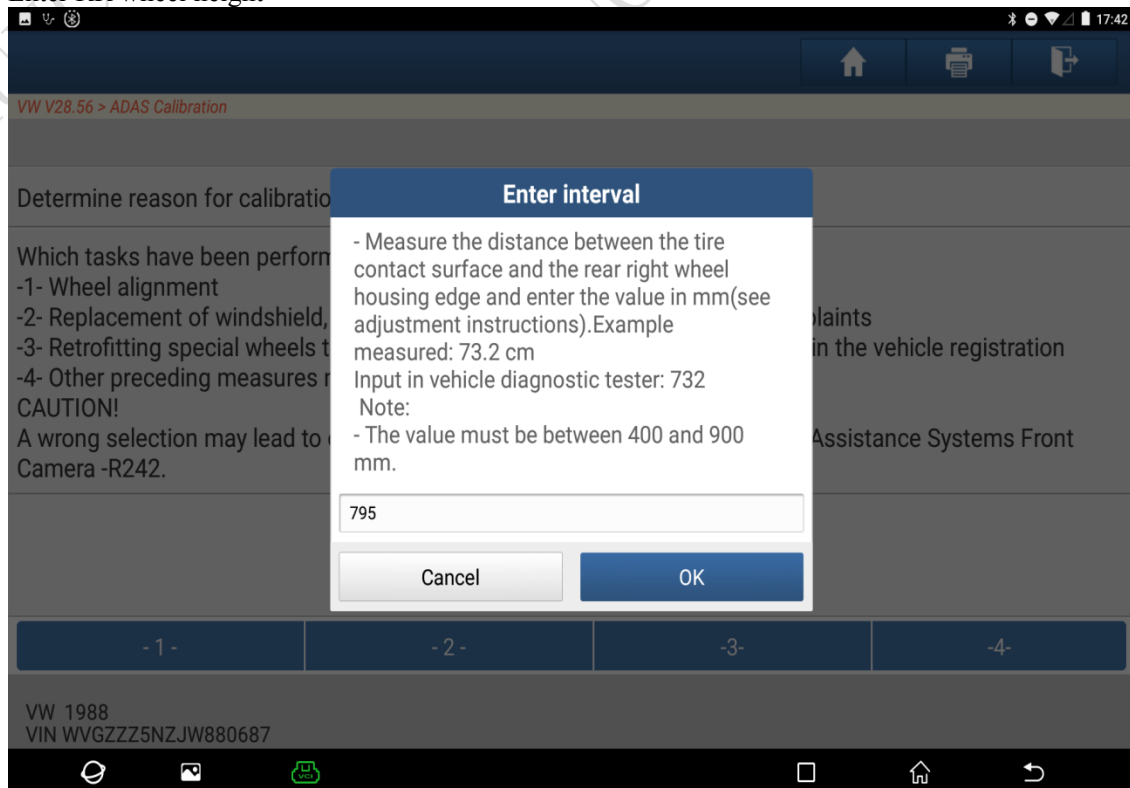
Enter FR wheel height



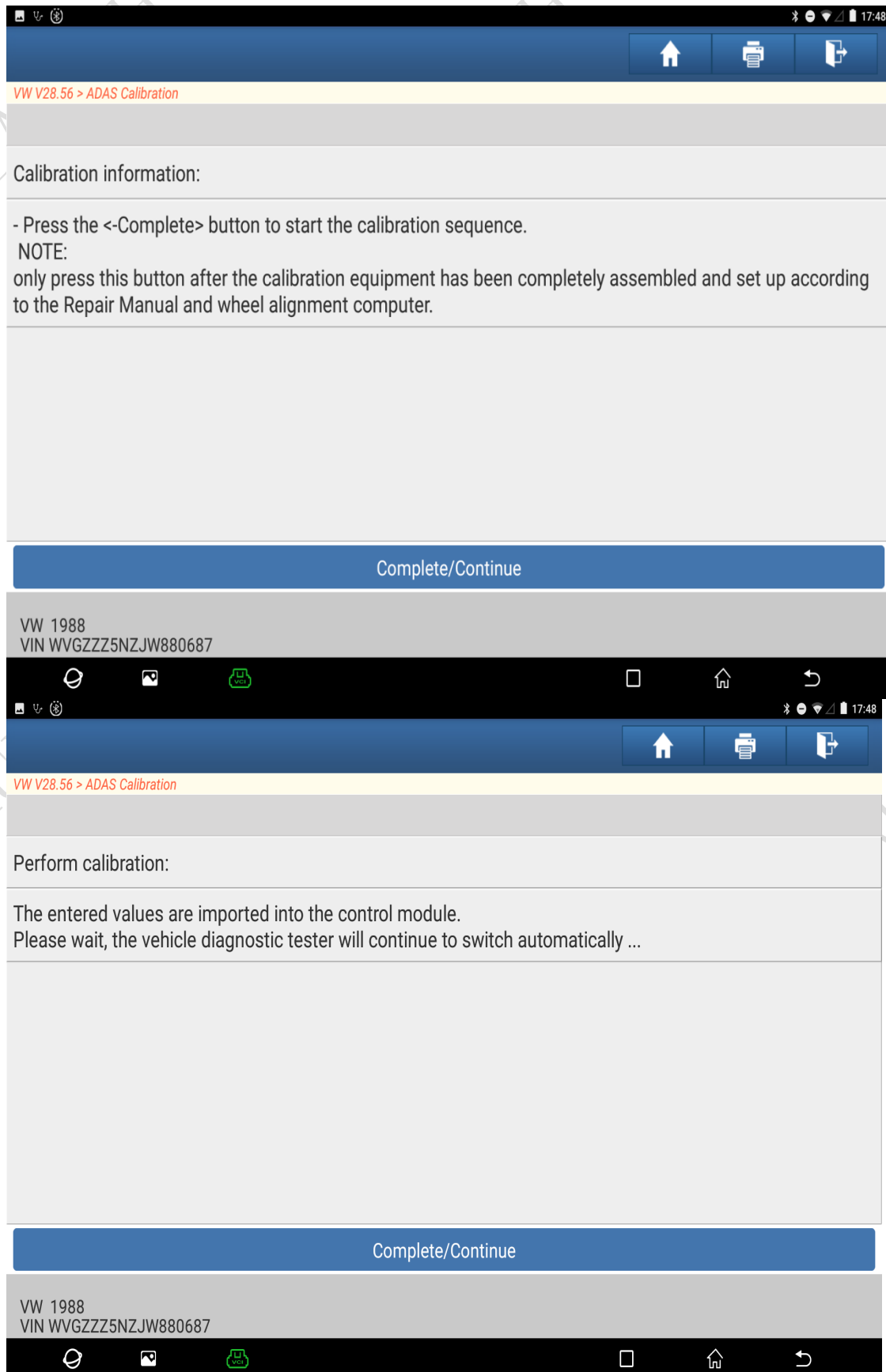
Enter RL wheel height

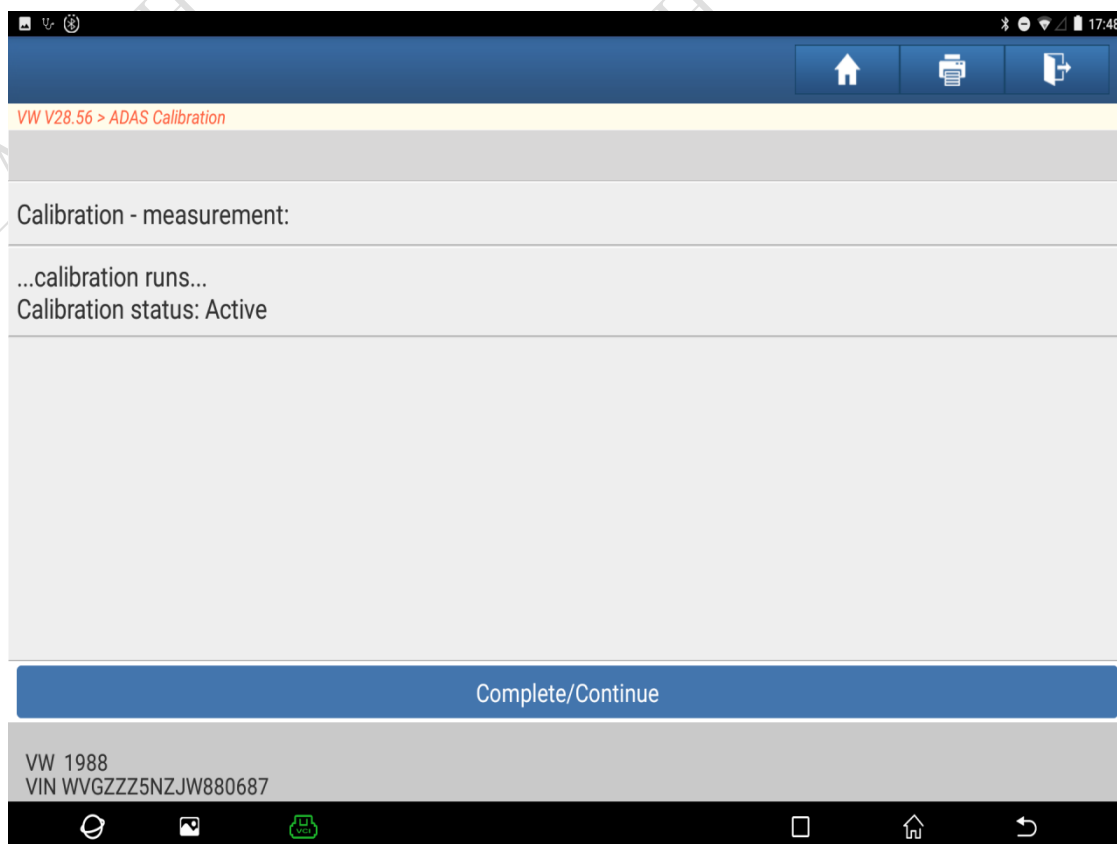


Enter RR wheel height

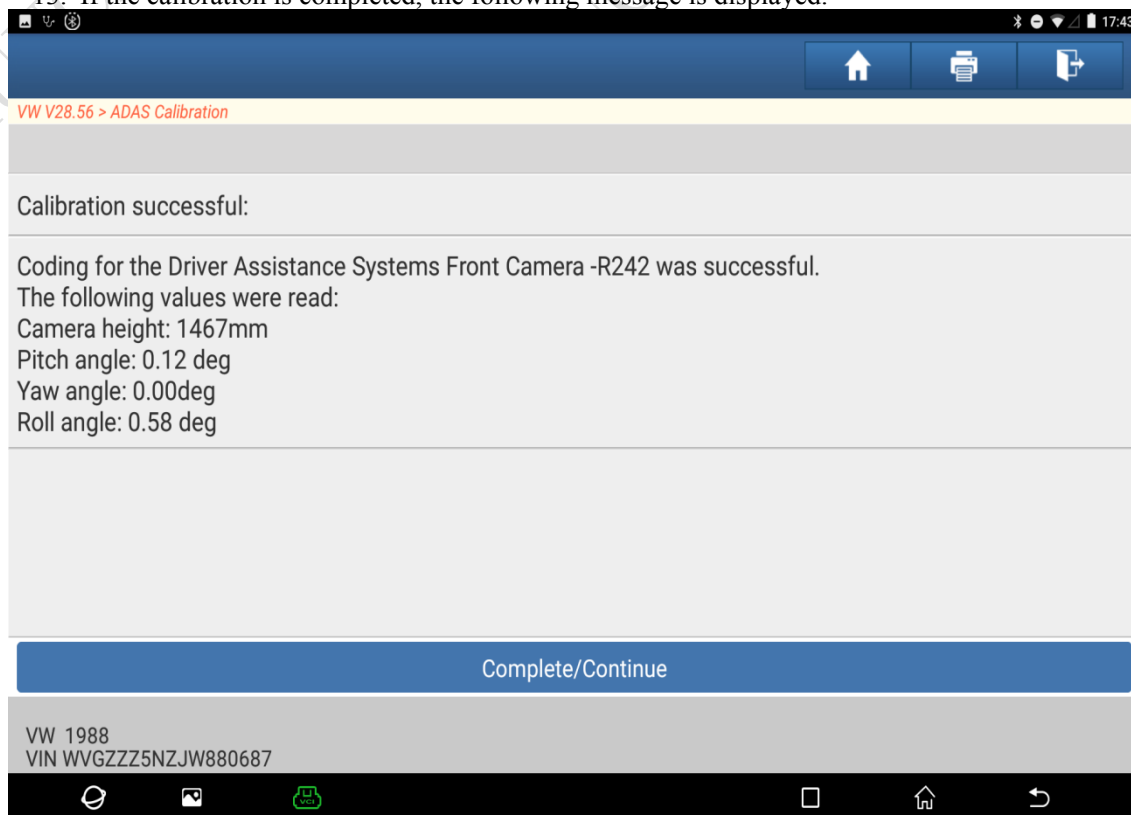


12. Execute front camera calibration. The software will calibrate it automatically, as shown below:

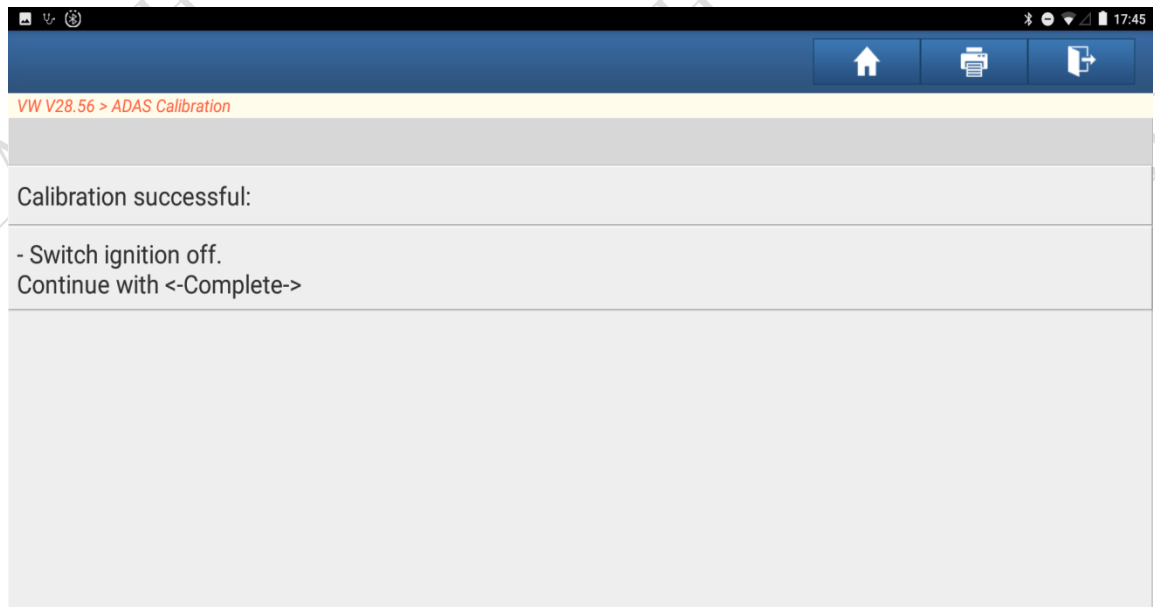




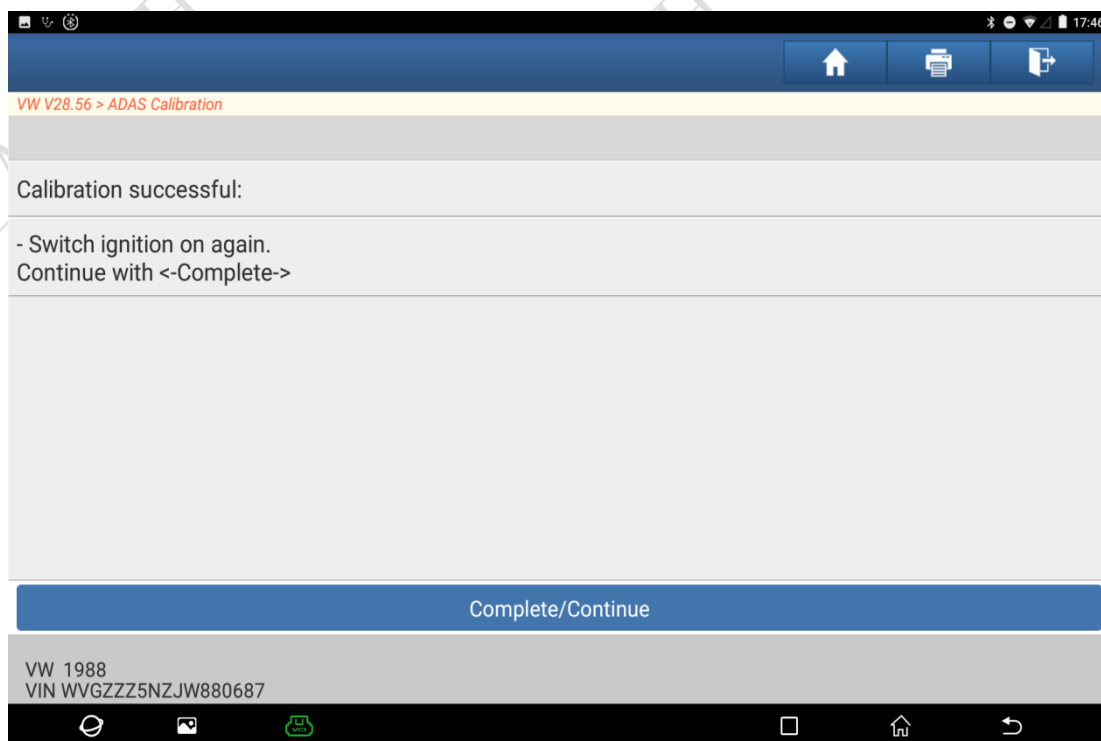
13. If the calibration is completed, the following message is displayed.



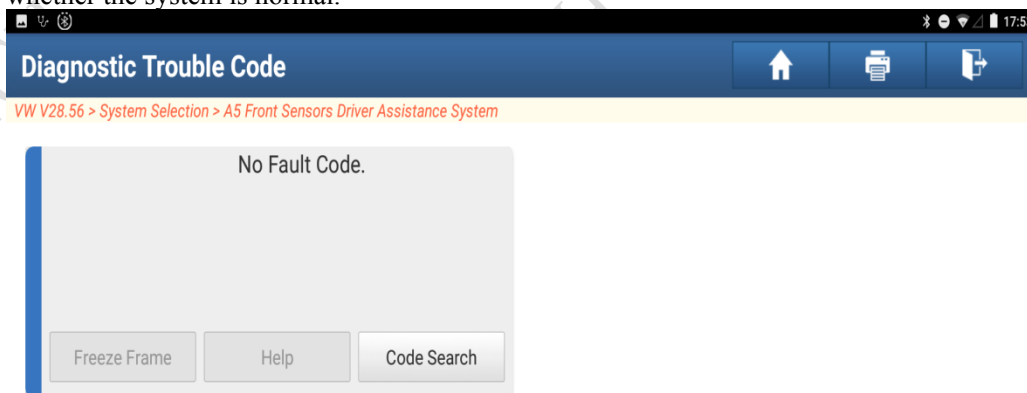
Turn the ignition off for 5 seconds and then turn it on again.



Turn the ignition on



14. Enter [System Selection] -> [A5 Front Sensors Driver Assistance System] to read DTC. The DTC has been cleared at this time. The operation is over. It is best to drive on a road to test whether the system is normal.



[Statement]

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