

**Installation & Calibration**

# SAG10

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**AUTONOMOUS STEERING SYSTEM  
INSTALLATION & CALIBRATION**



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## SAG10 Autonomous Steering System Installation Overview

1. Choose the right steering wheel shaft and take out the screws from the parts bag. Fix them to the motor and tighten each screw. (Figure 1)



Figure 1

2. Place the steering wheel, and use a wrench to secure the screws. (Figure 2)



Figure 2

3. Install and secure the parts related to the motor. Don't forget the washers. (Figure 3)



Figure 3

4. Put on the car's fixing nuts. Don't forget the washers. (Figure 4)



Figure 4

5. Place the steering wheel and motor. Put on the car's fixing nuts. Don't forget the washers. (Figure 5)



Figure 5



6. Put on the car's fixing nuts. Use a wrench to secure the screws. (Figure 6)



Figure 6

7. Put on the cover. (Figure 7)



Figure 7

8. Install the power button mounting metal plate on the back of the tablet. The RAM bracket has two spherical ends: one fixes to the tablet, and the other to the cockpit. (Figure 8-10)

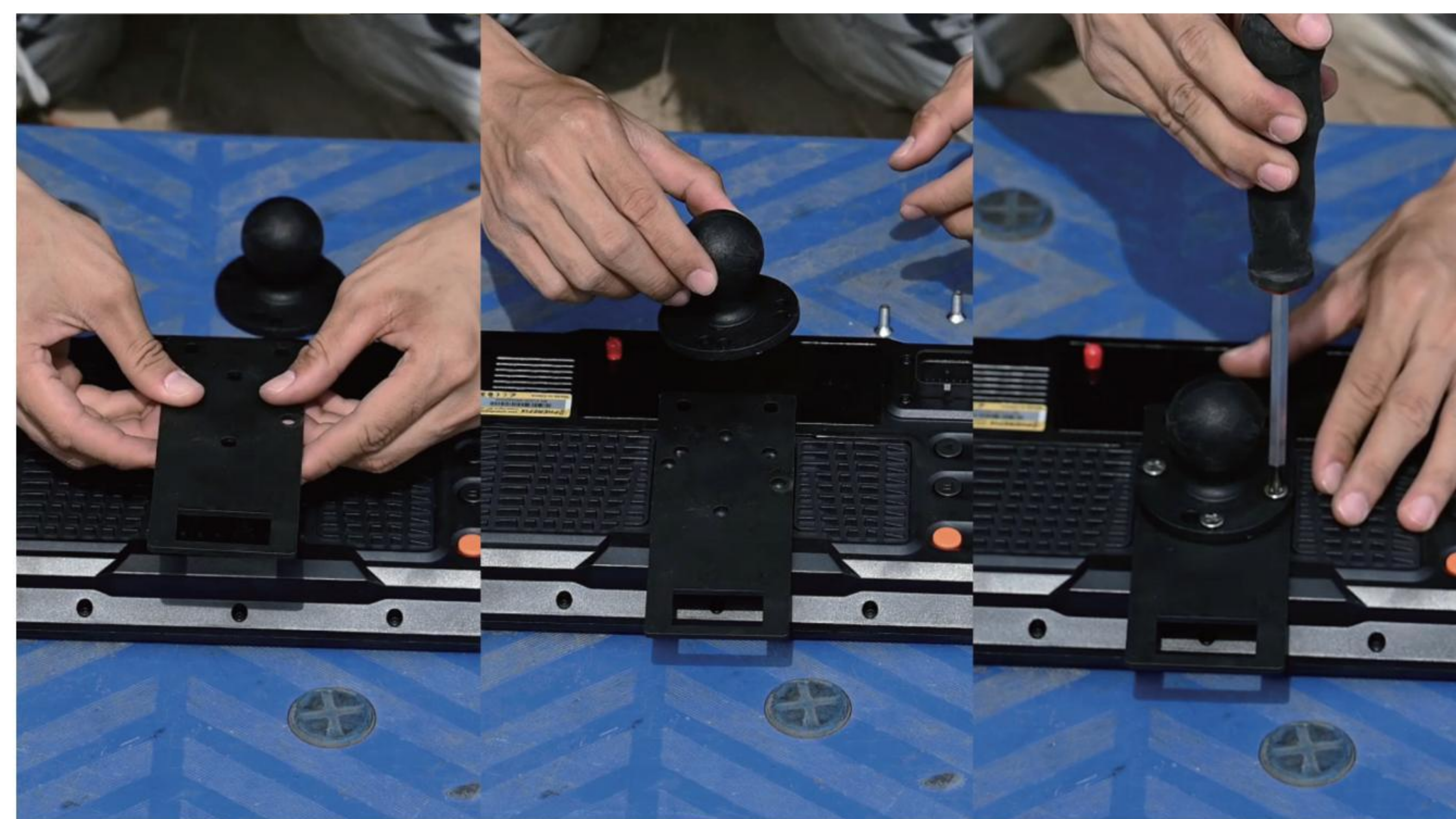


Figure 8



Figure 9



Figure 10

9. After adjusting the angle, tighten the locking knob securely. (Figure 11)



Figure 11

10. Use screws to attach the bracket to the bottom of the receiver and tighten them. (Figure 12)



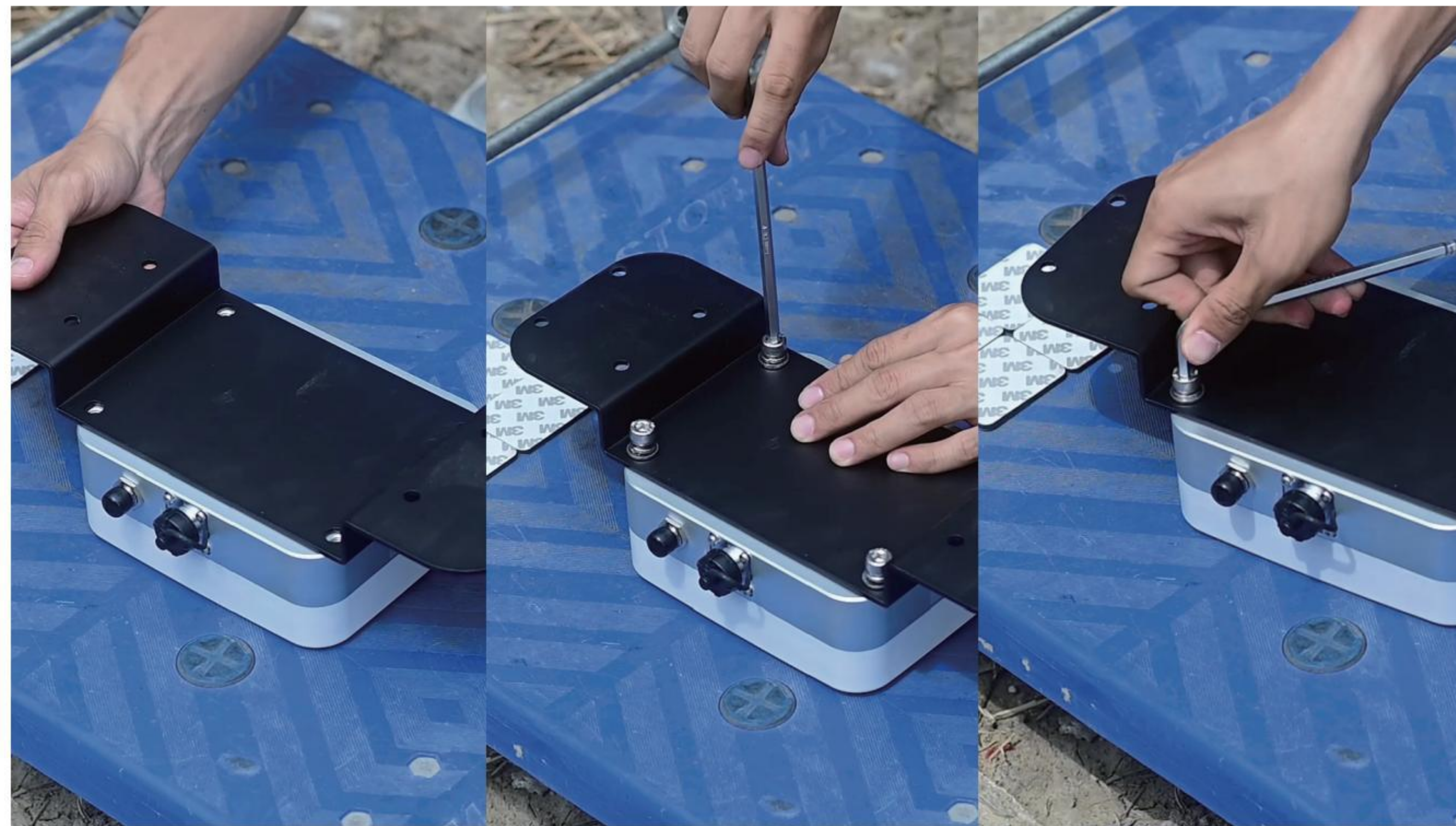


Figure 12

11. Stick one side of the double-sided adhesive tape to the ends of the bracket. (Figure 13)



Figure 13

12. Mark the symmetrical positions on the ceiling. (Figure 14)



Figure 14

13. Before sticking the sticker, clean the dust. Stick the receiver at the marked position. (Figure 15)



Figure 15

14. Connect the wires and arrange them neatly. (Figure 16)

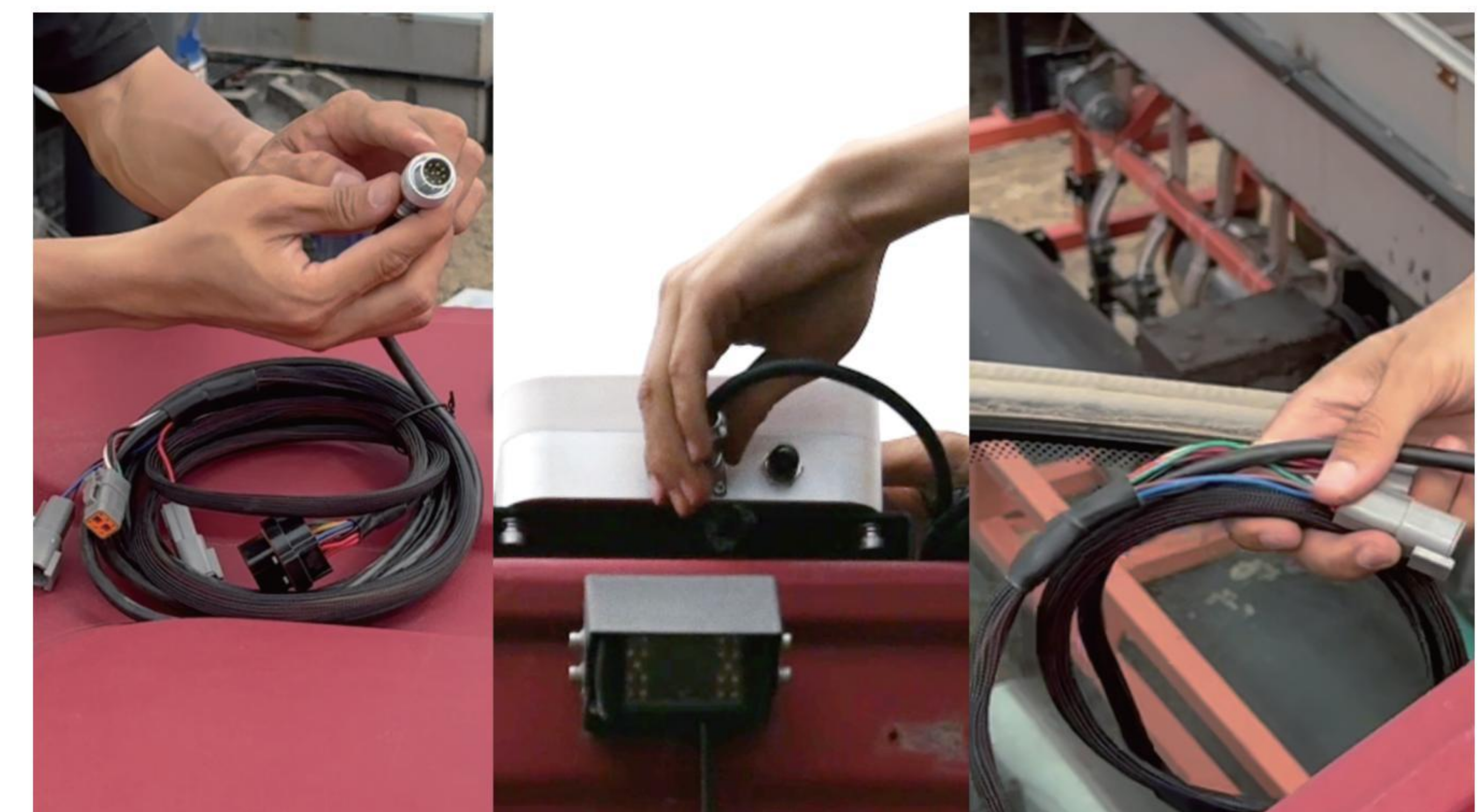


Figure 16

15. Attach the camera to the front end of the car roof (camera is optional). (Figure 17)



Figure 17



16. Organize the wires and secure them to the car roof.  
(Figure 18)

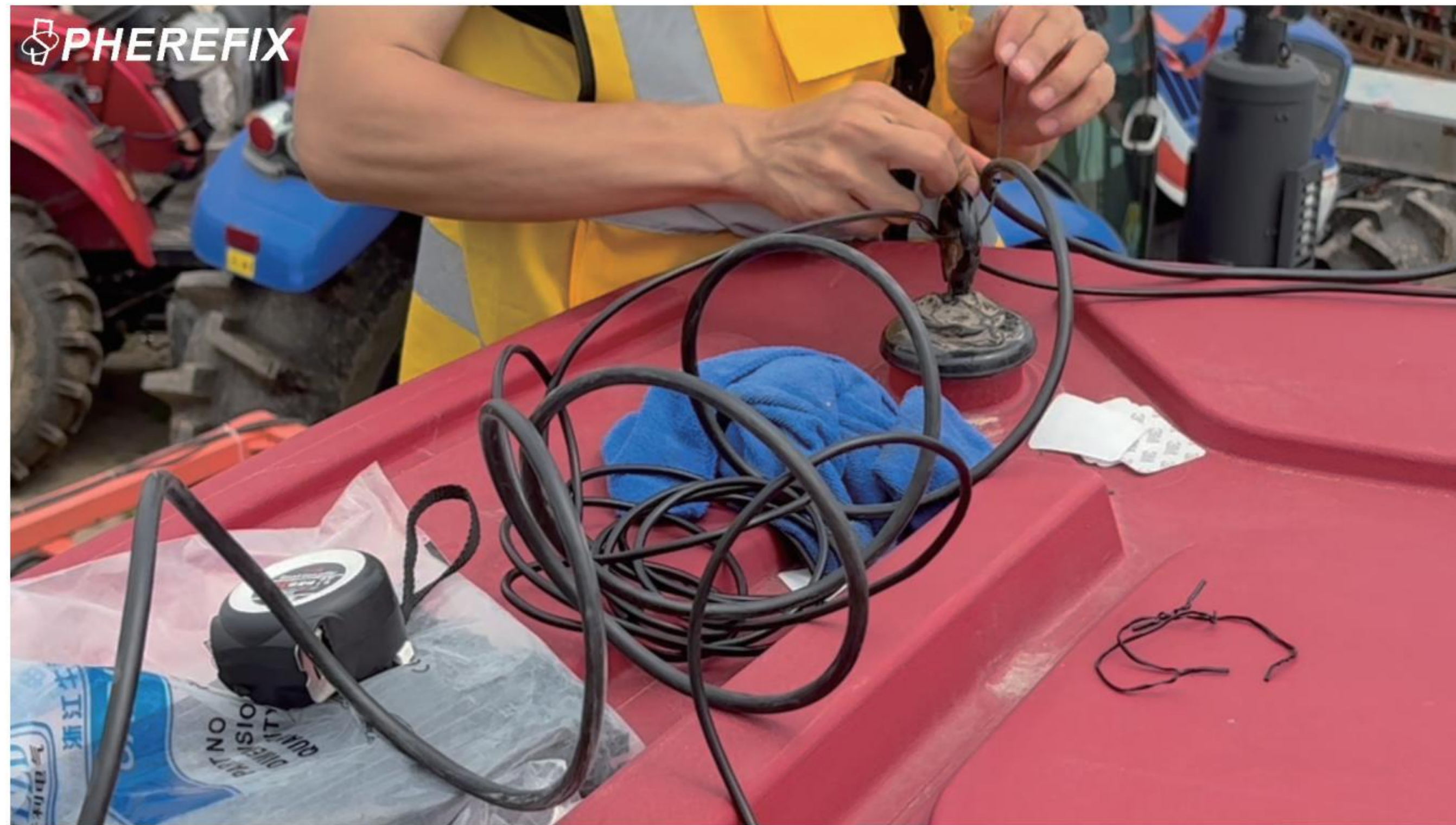


Figure 18

17. Connect the power wires. (Figure 19-20)



Figure 19



Figure 20

18. The red power wire connects to the positive, and the black to the negative. Connect to a 12V power source, with the negative connected to the ground. (Figure 21)



Figure 21

19. Connect the motor. Align the position and then tighten it.  
(Figure 22)



Figure 22

20. The clips should match and click into place with a sound feedback. (Figure 23)

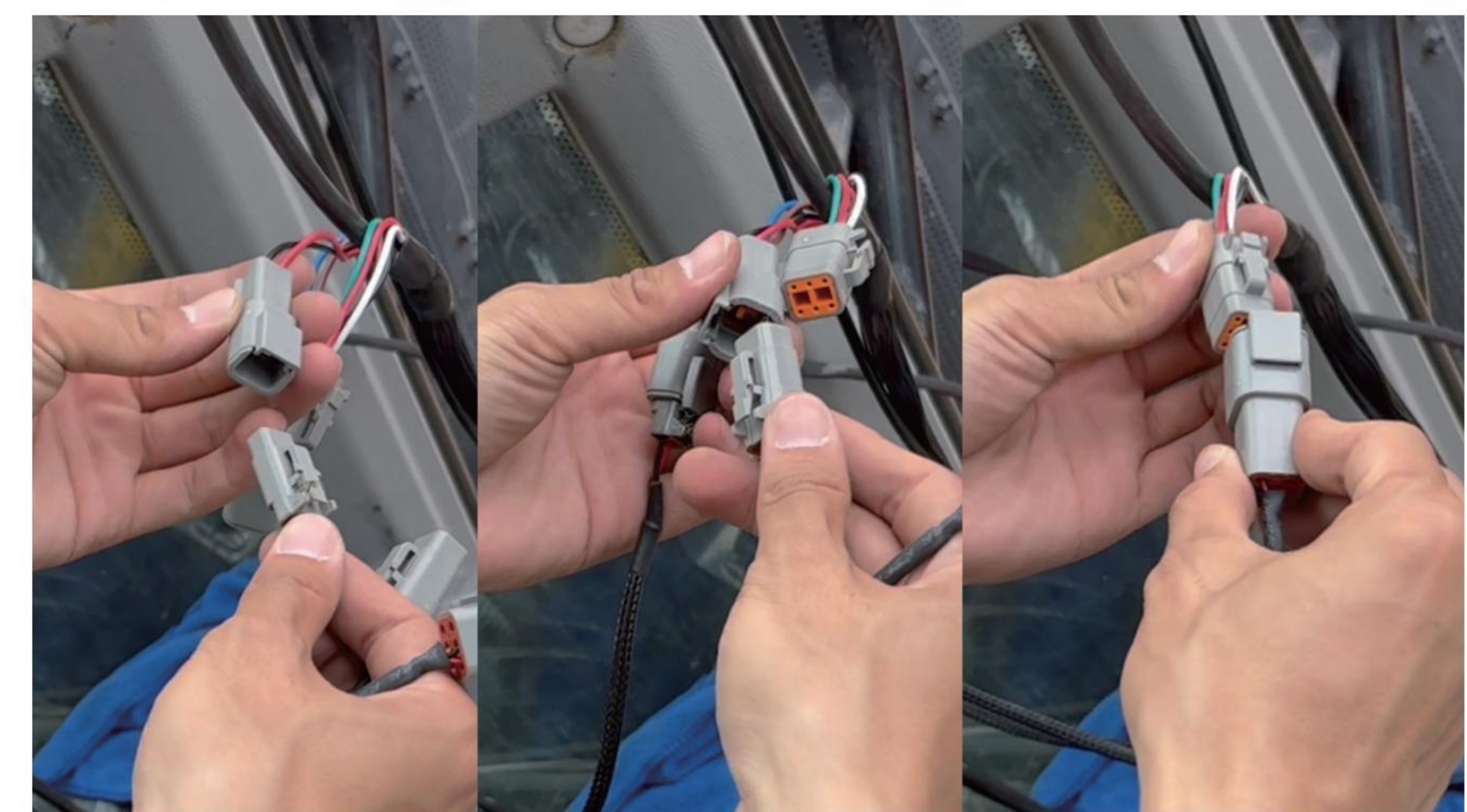


Figure 23



21. Connect the power wires to the tablet. (Figure 24)



Figure 24

22. Attach the power switch to the metal plate on the tablet bracket. (Figure 25-26)



Figure 25



Figure 26

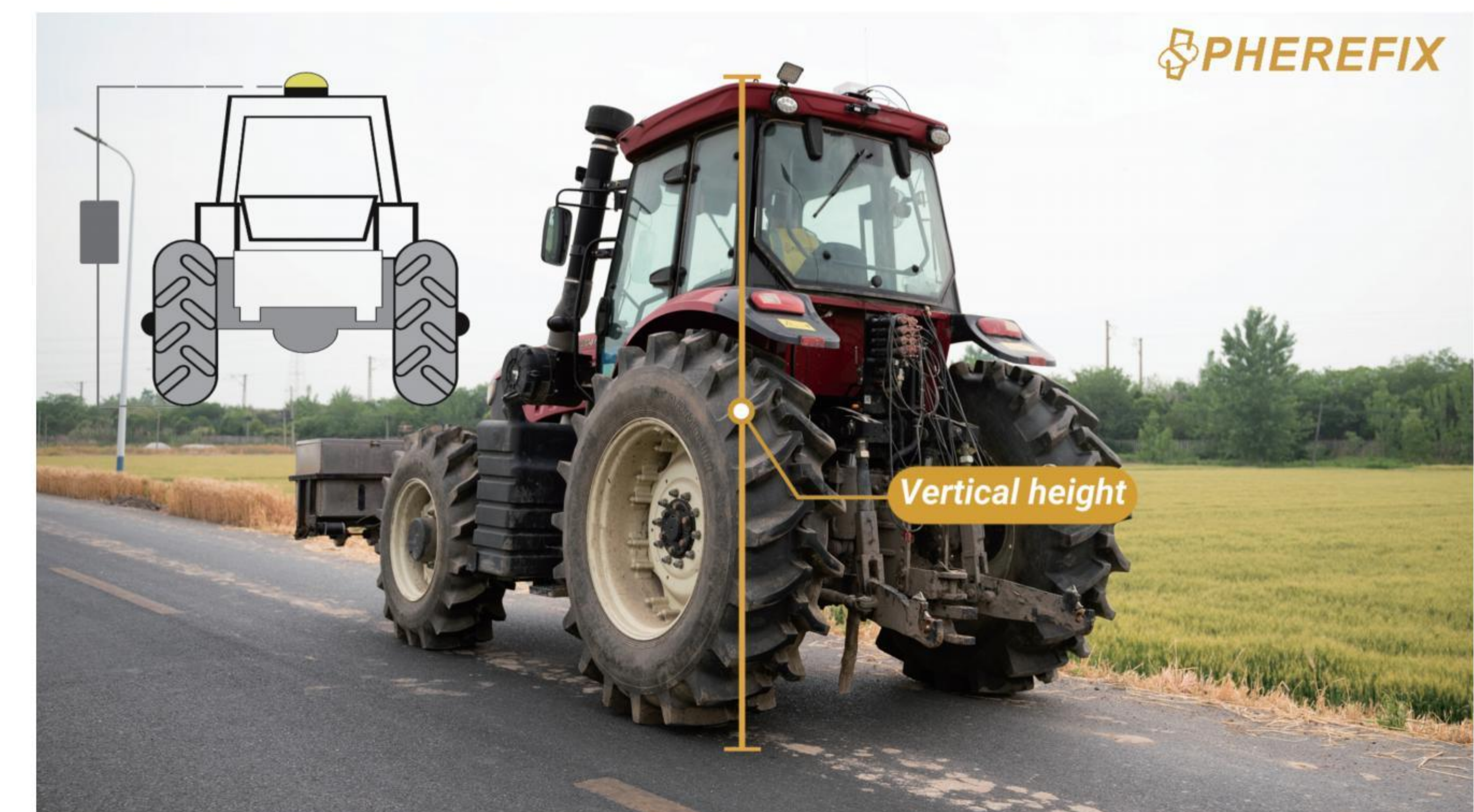
23. Attach the power switch to the metal plate on the tablet bracket. The installation is complete. (Figure 27)



Figure 27

### Calibration steps:

1. Measure the vertical height from the receiver to the ground.



2. Measure the distance between the front and rear wheel axles.

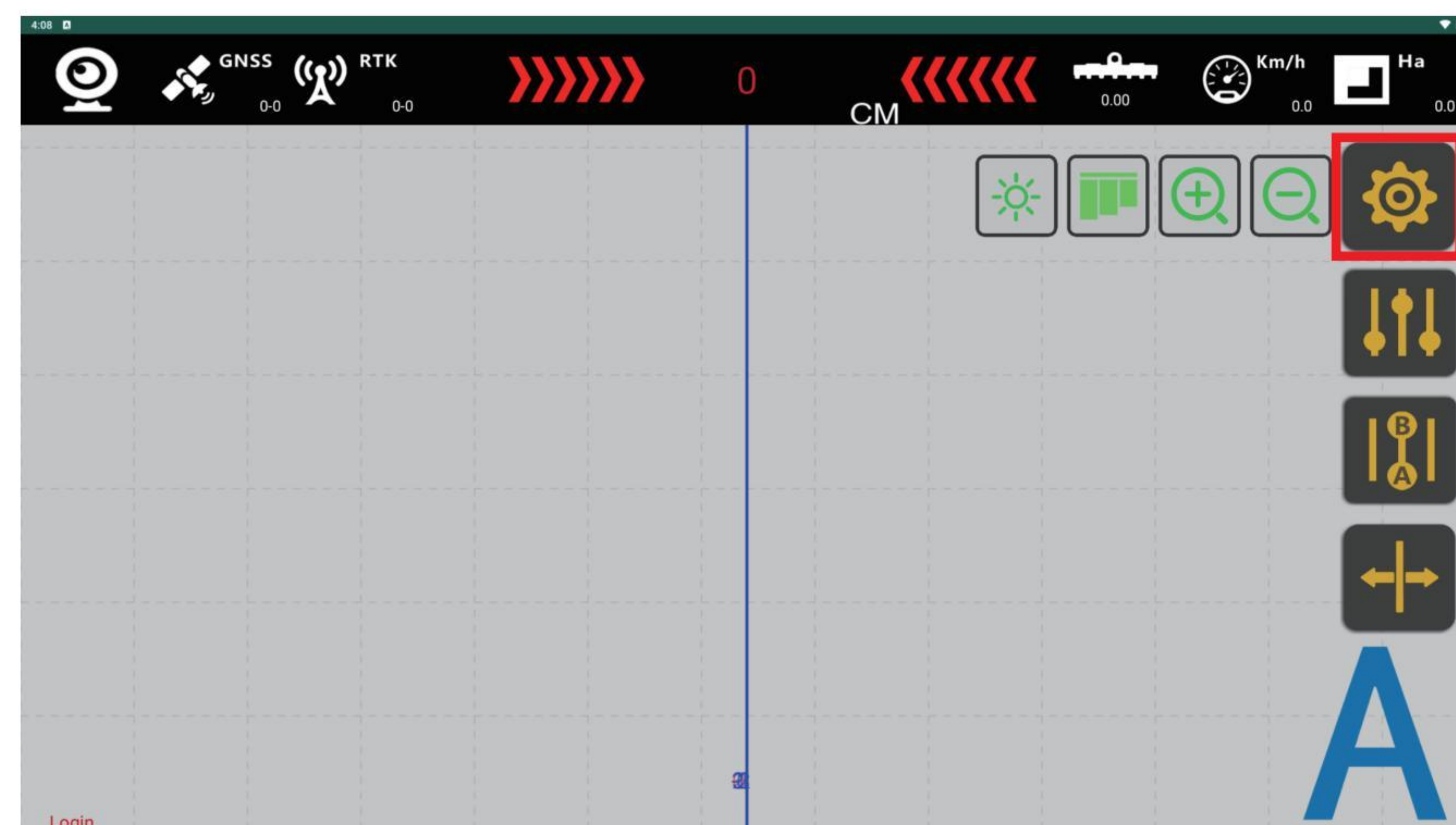




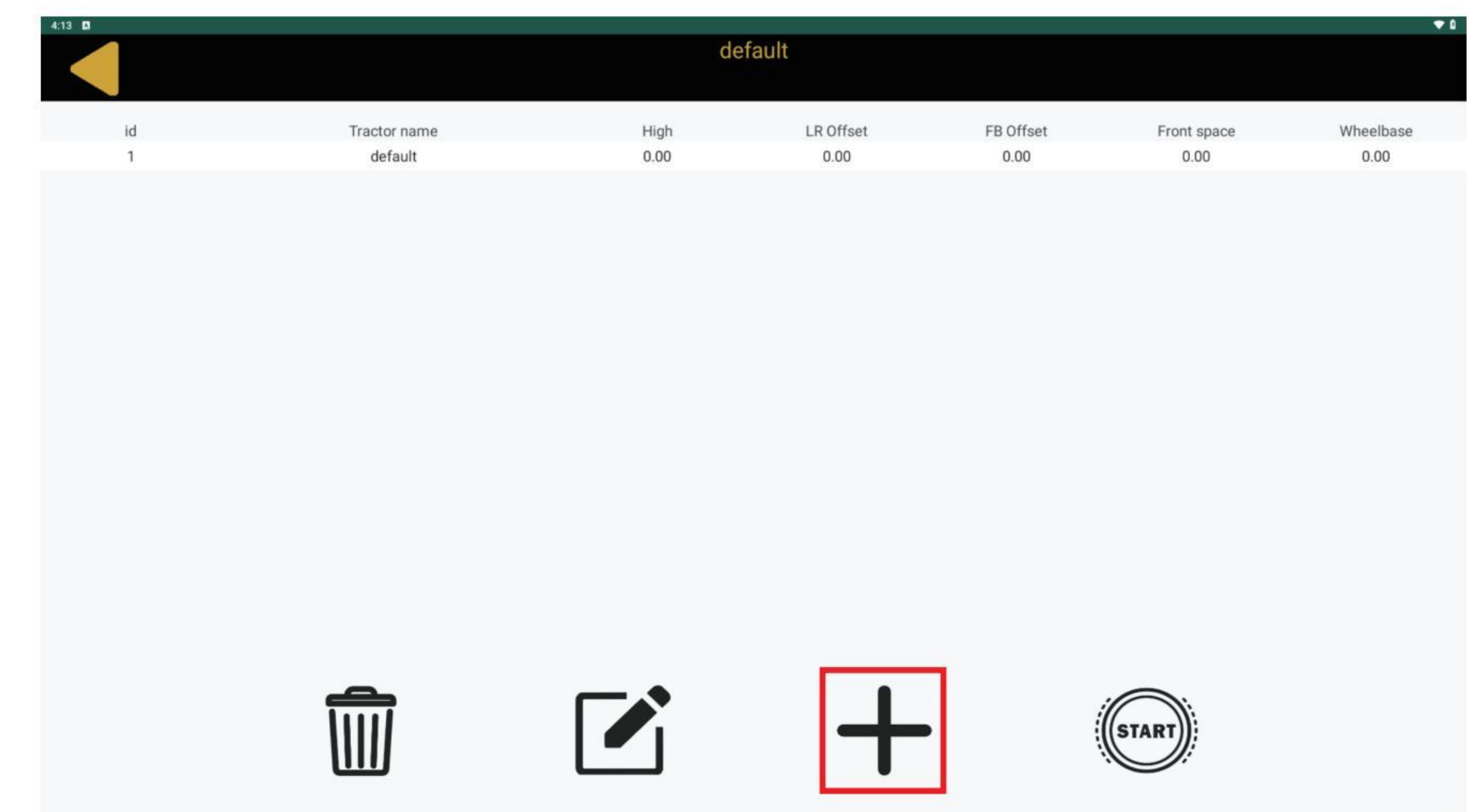
3. Measure the distance between the centers of the two front wheels.



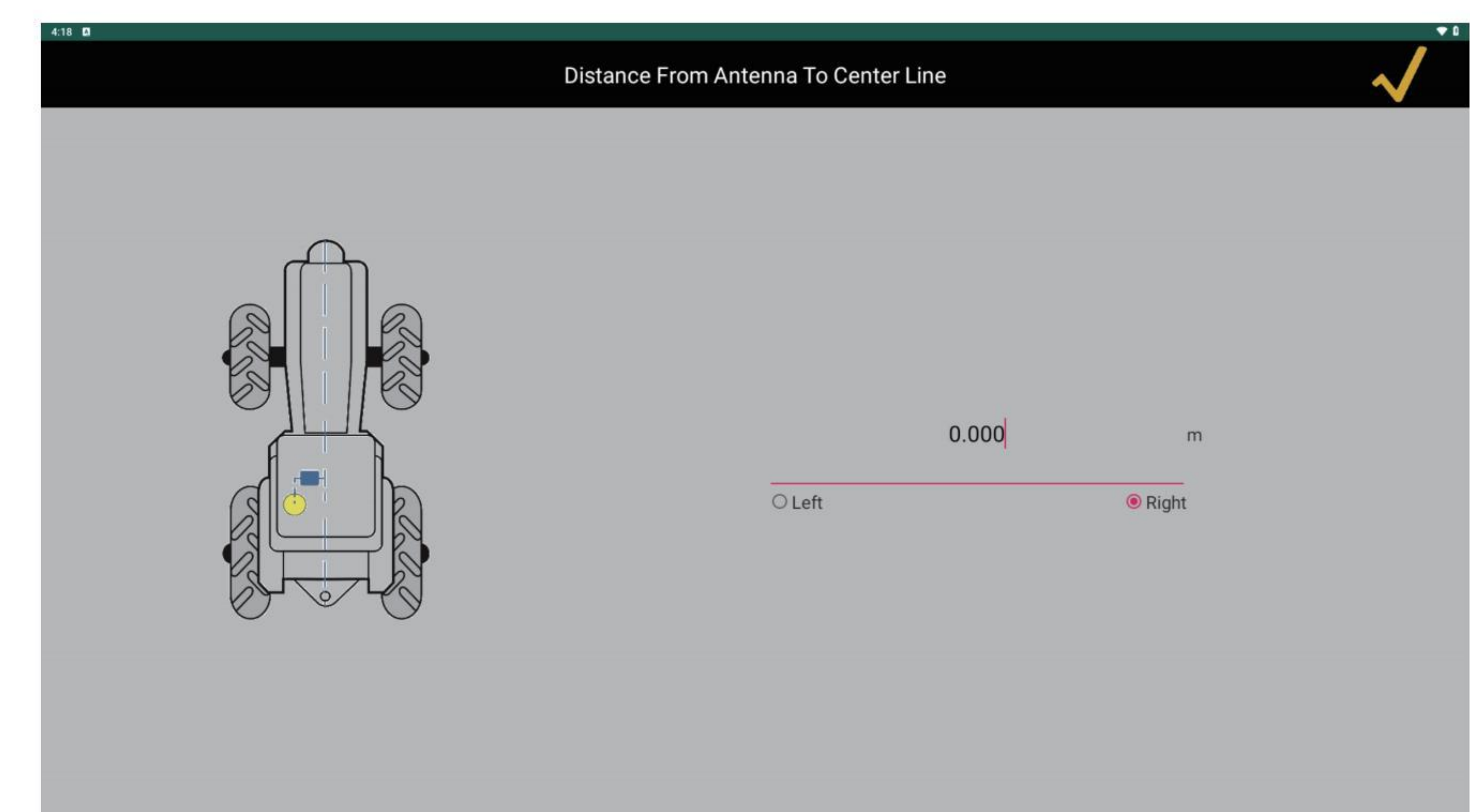
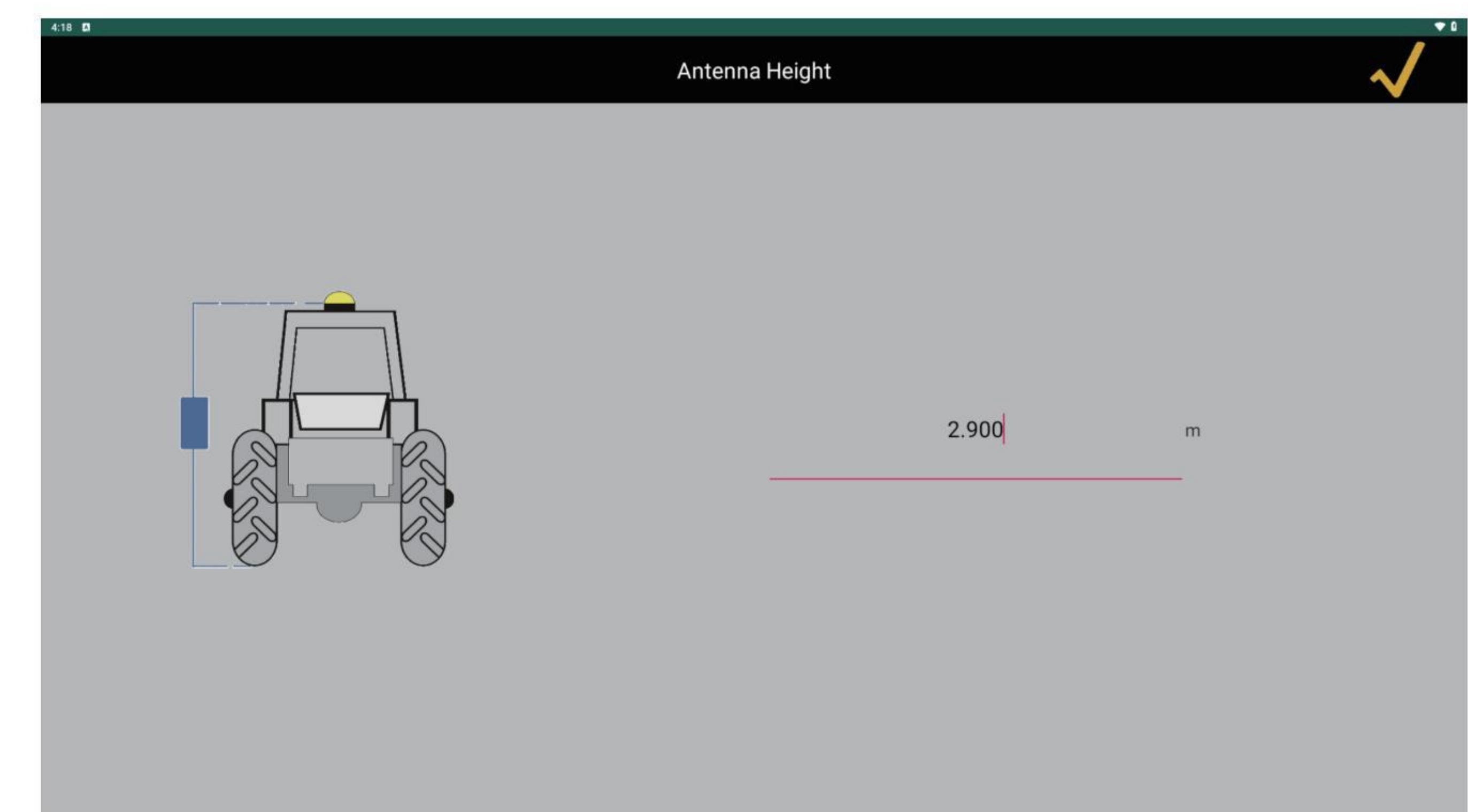
4. Click on the Settings icon to the main menu.



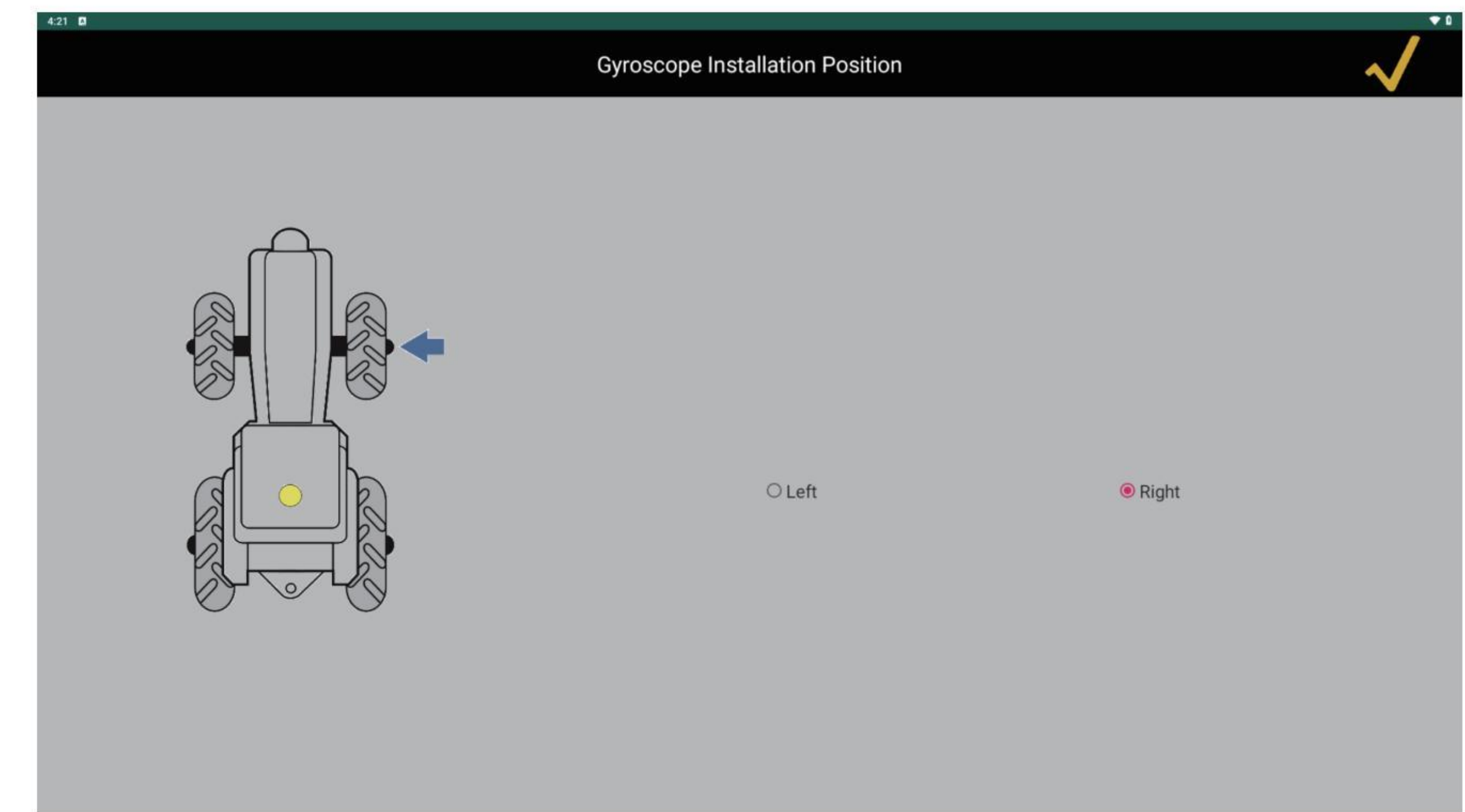
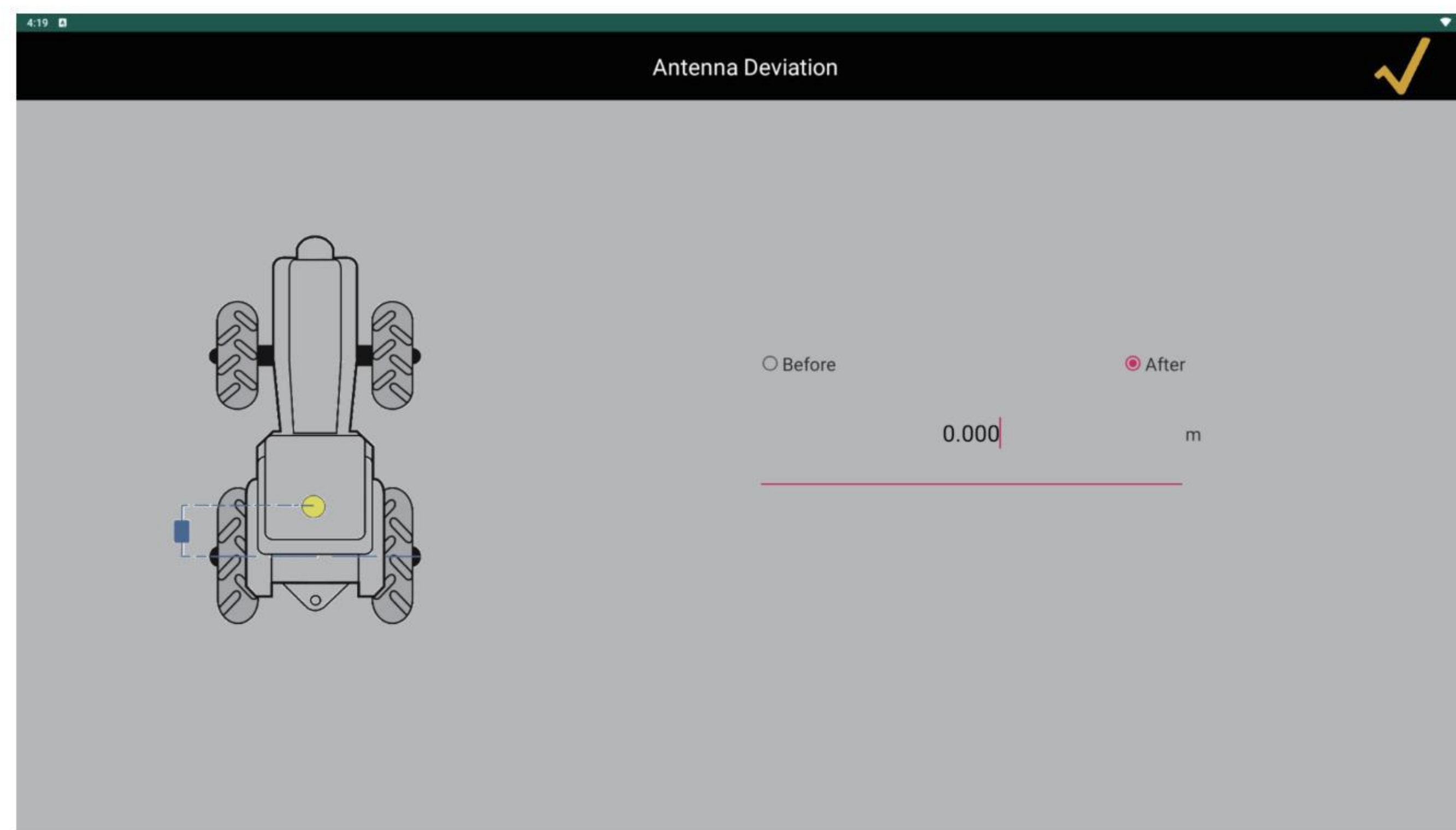
5. Click on Tractor and then click on "+" to add vehicle information.



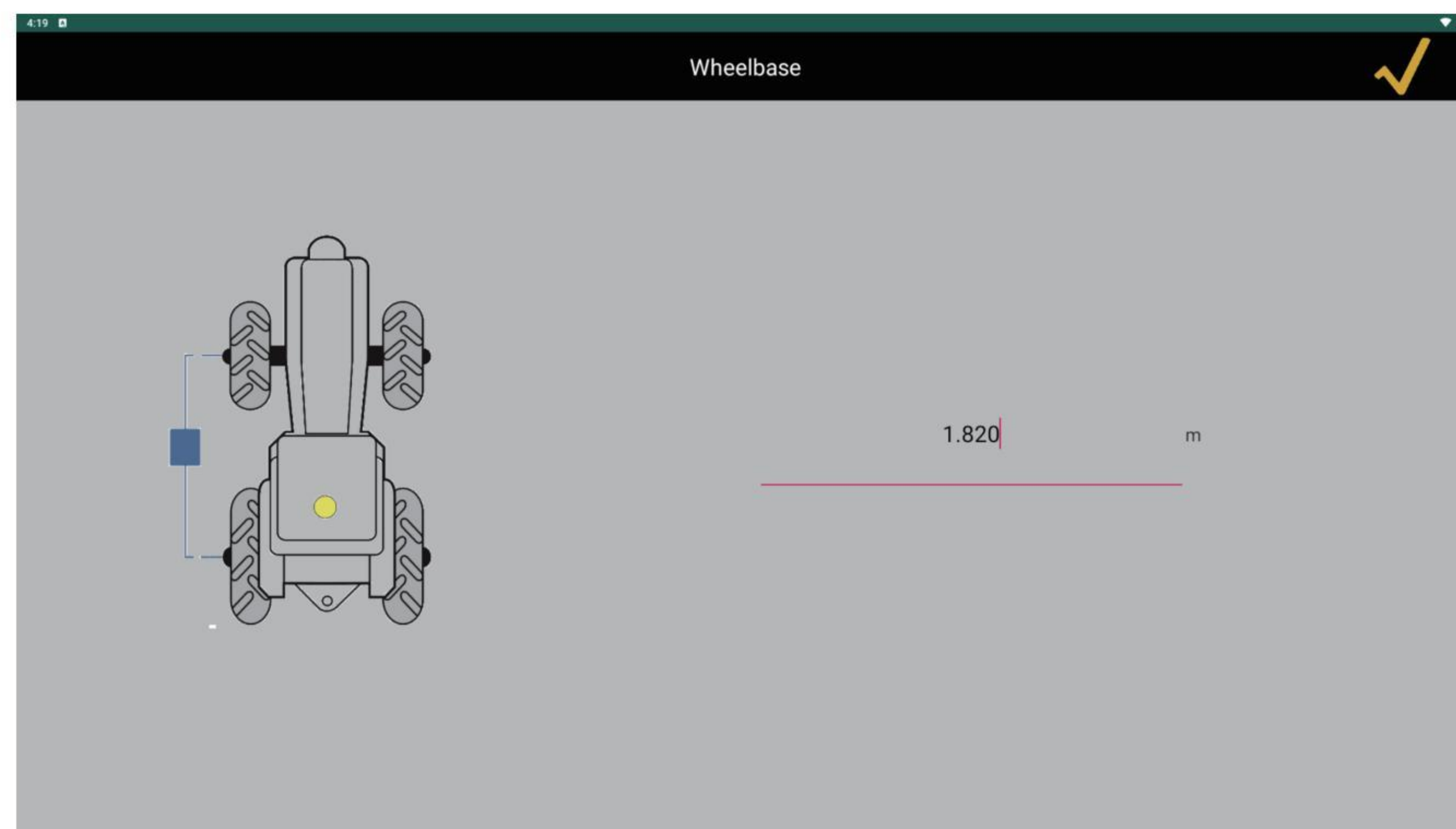
6. Enter the vehicle data you have just measured and click "✓"



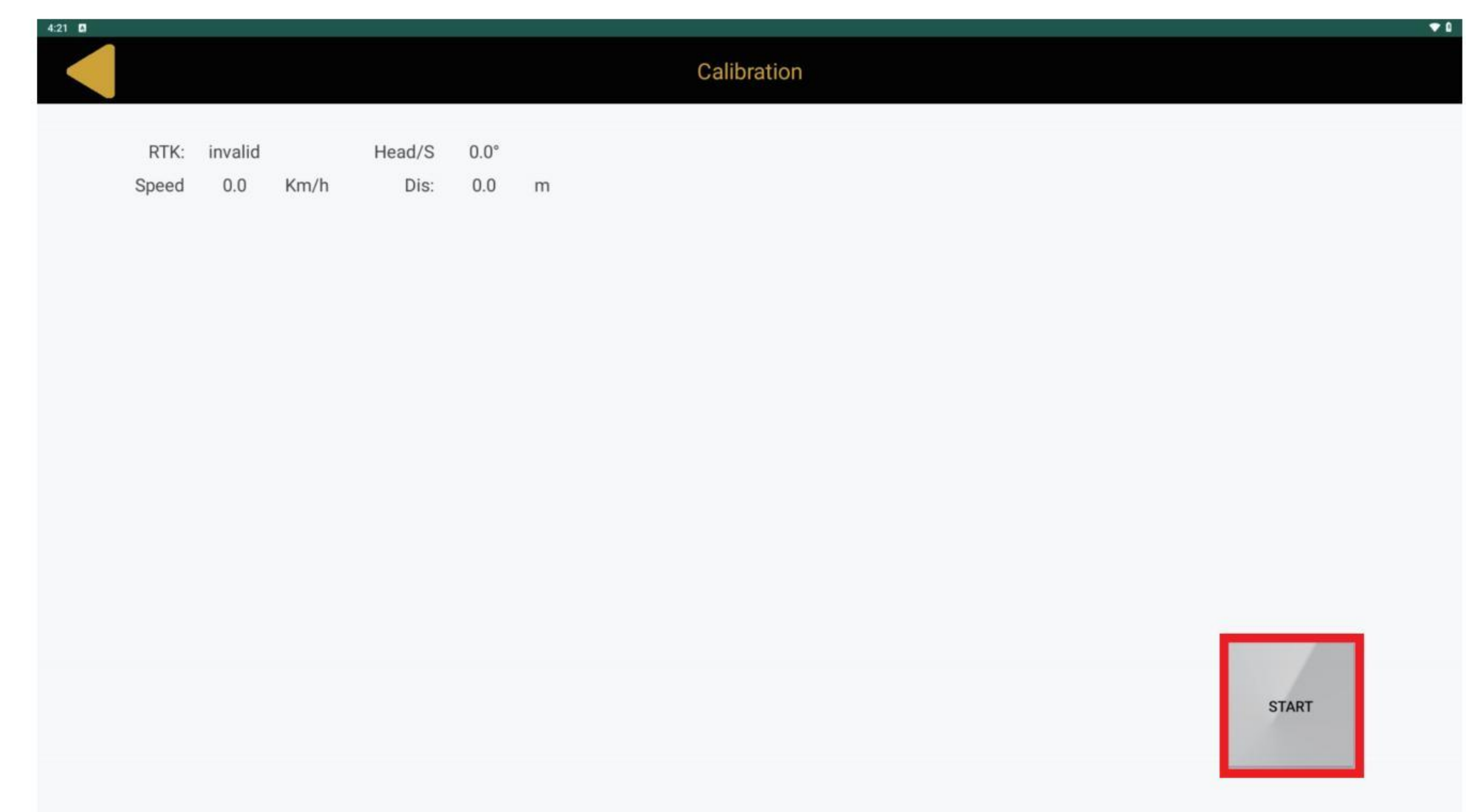
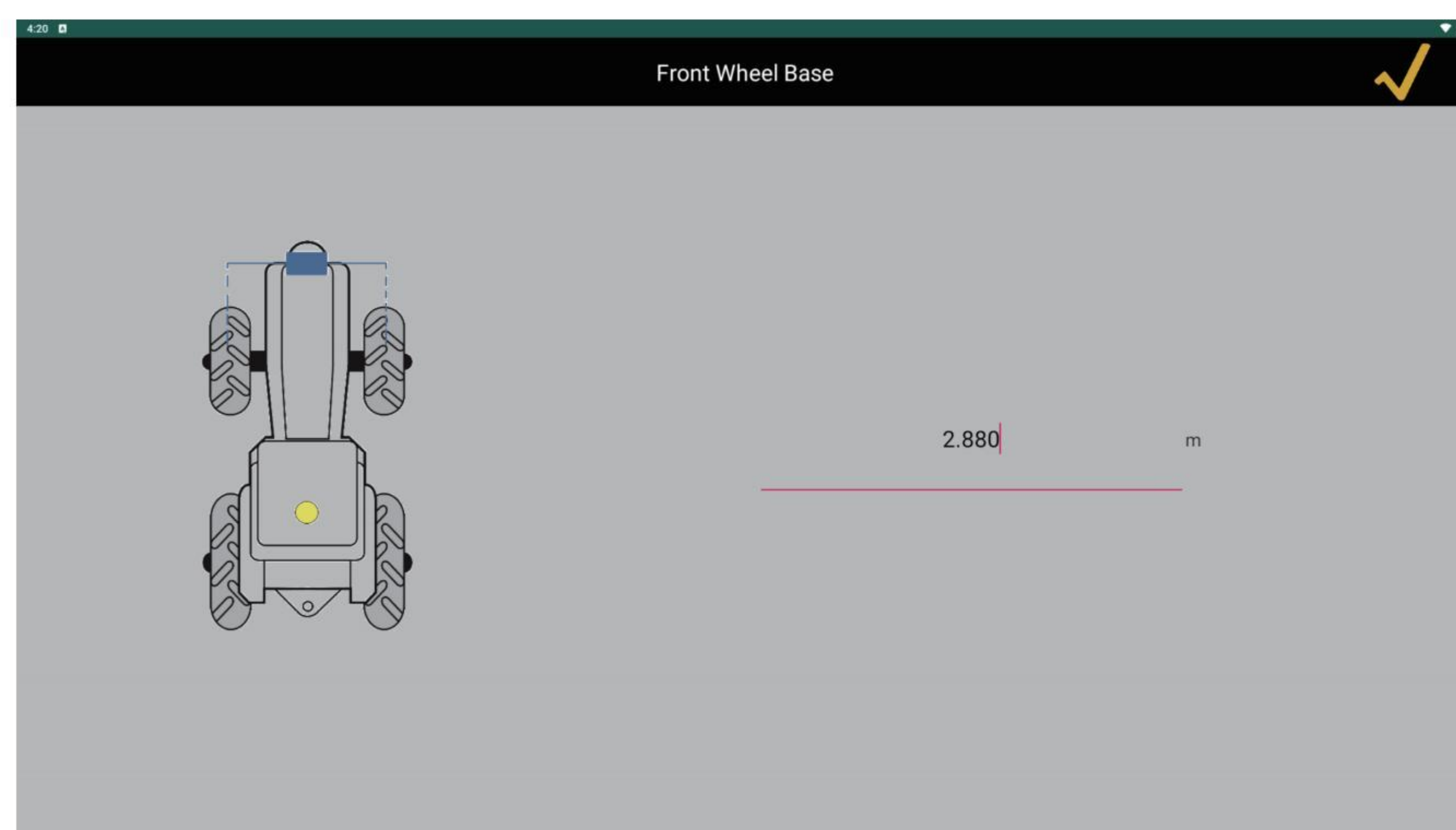




7. Click "✓" to return to the main menu. Click on "Calibration" to calibrate.

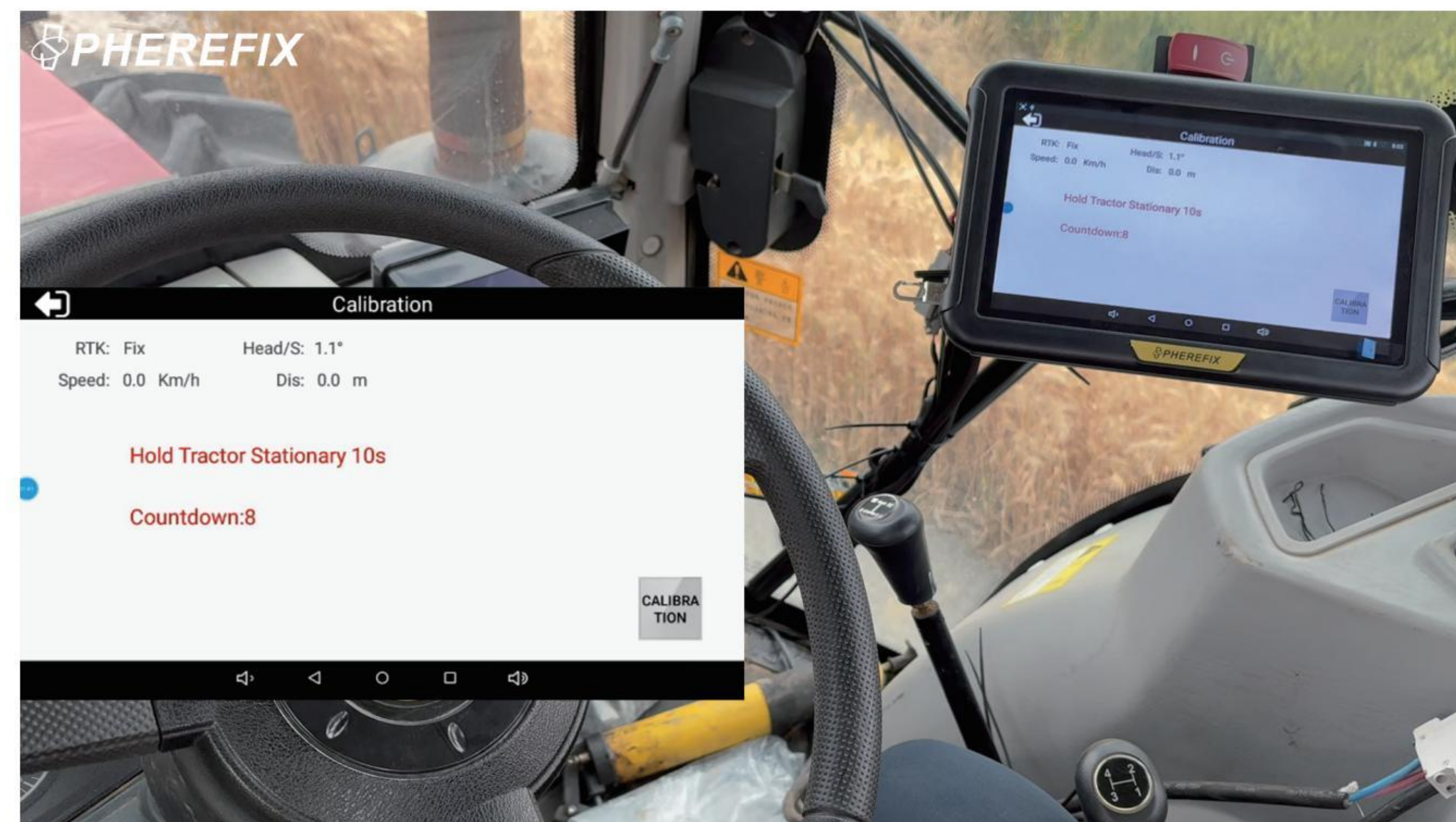


8. Click on "START".

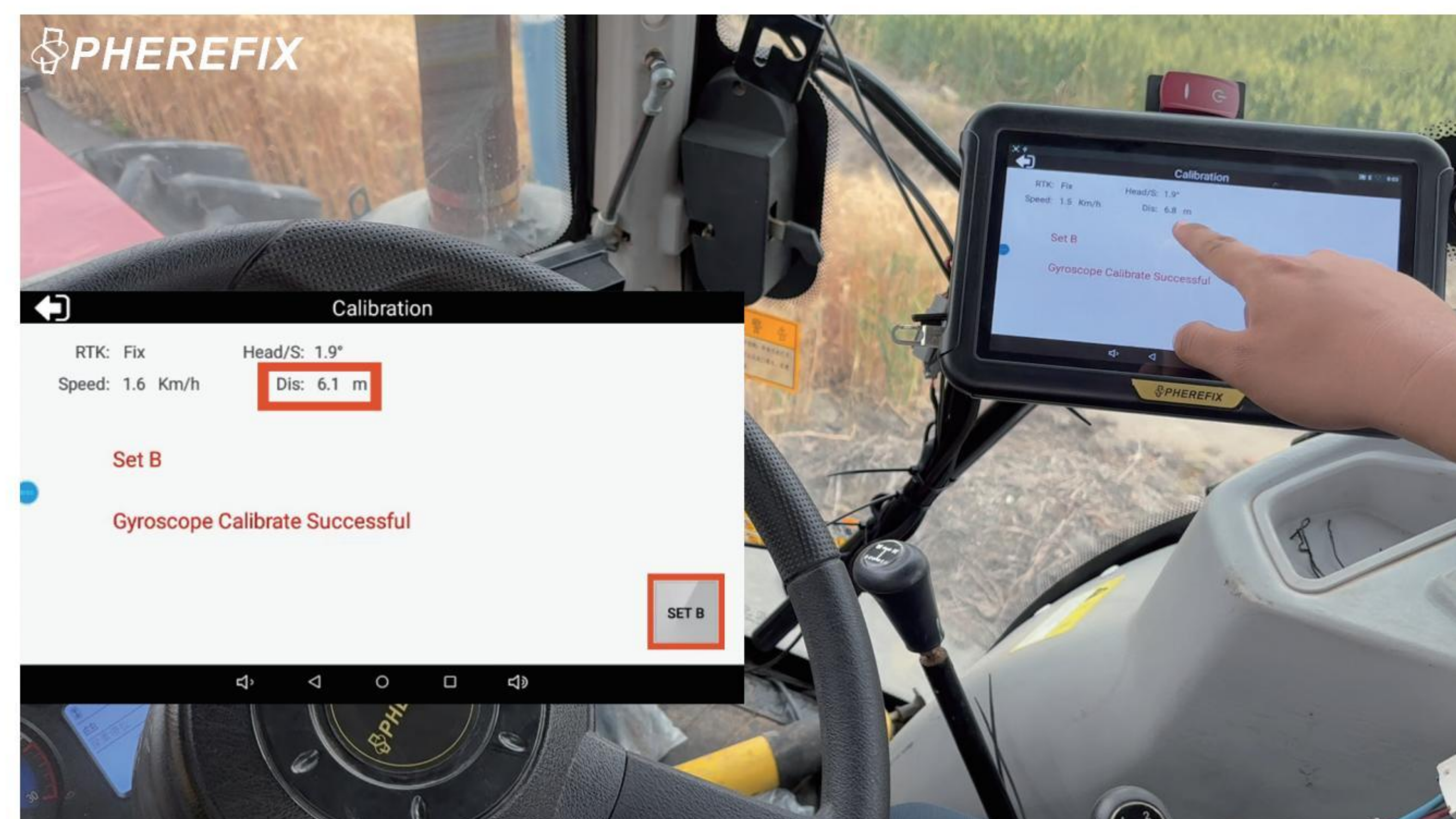
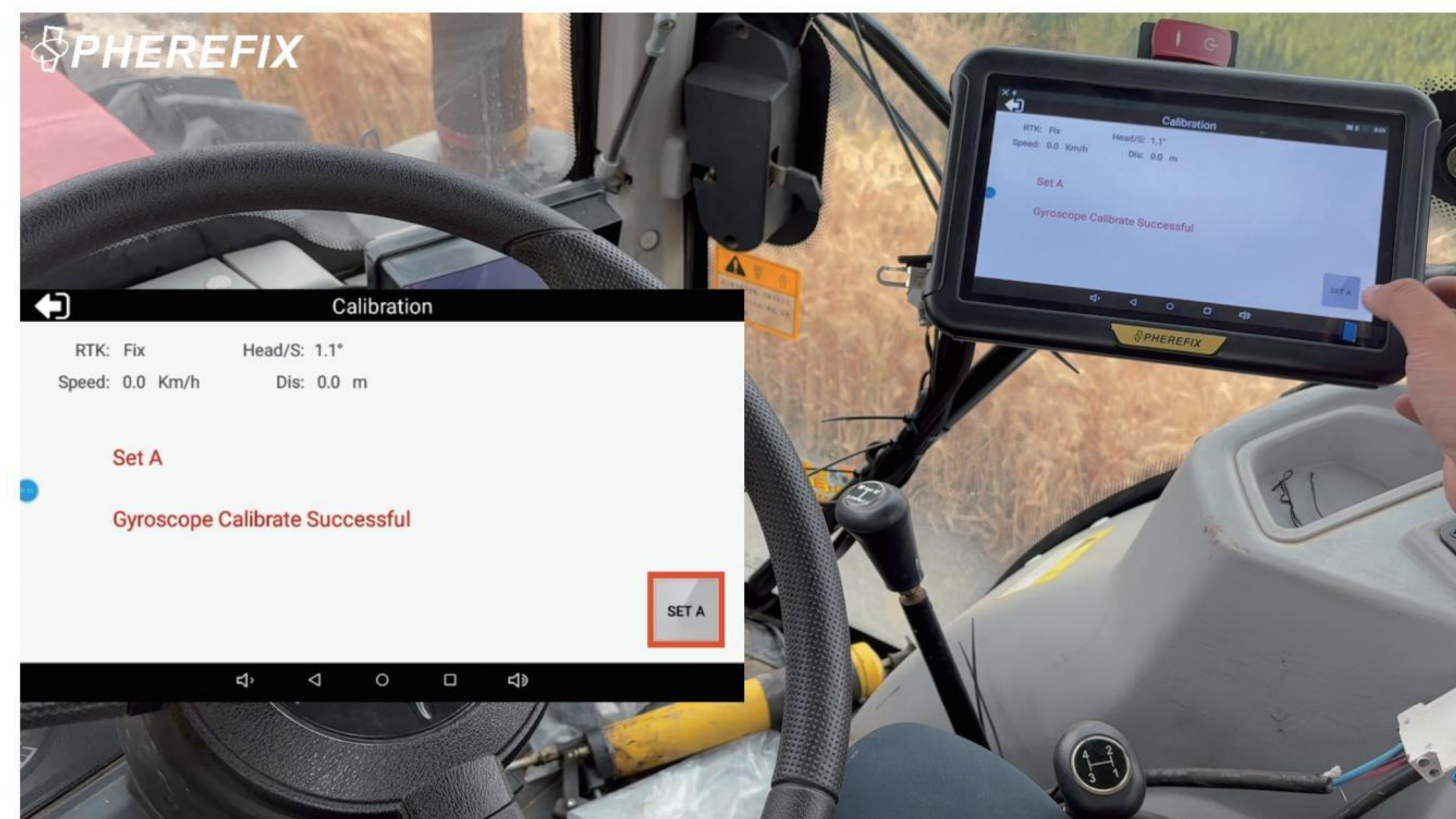




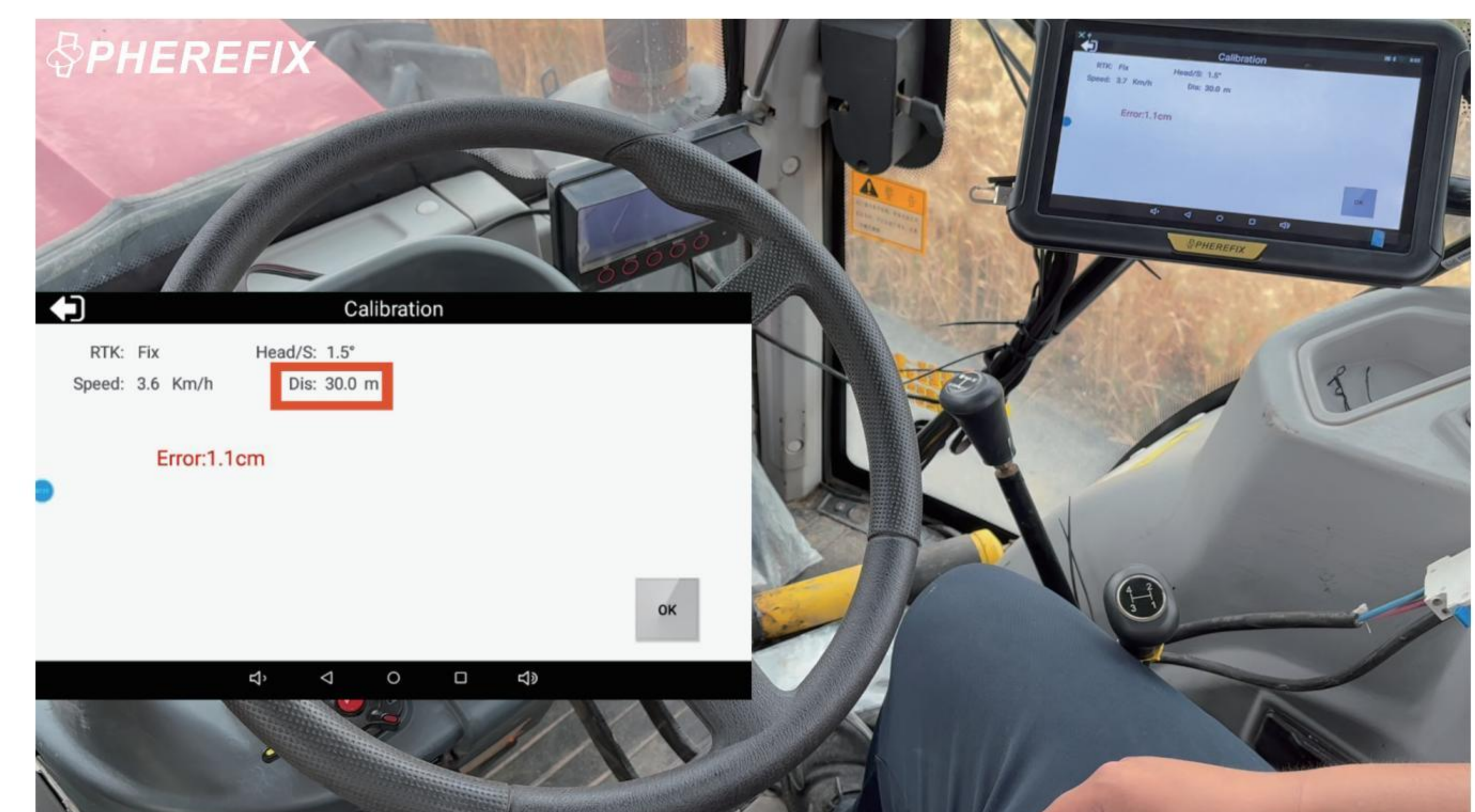
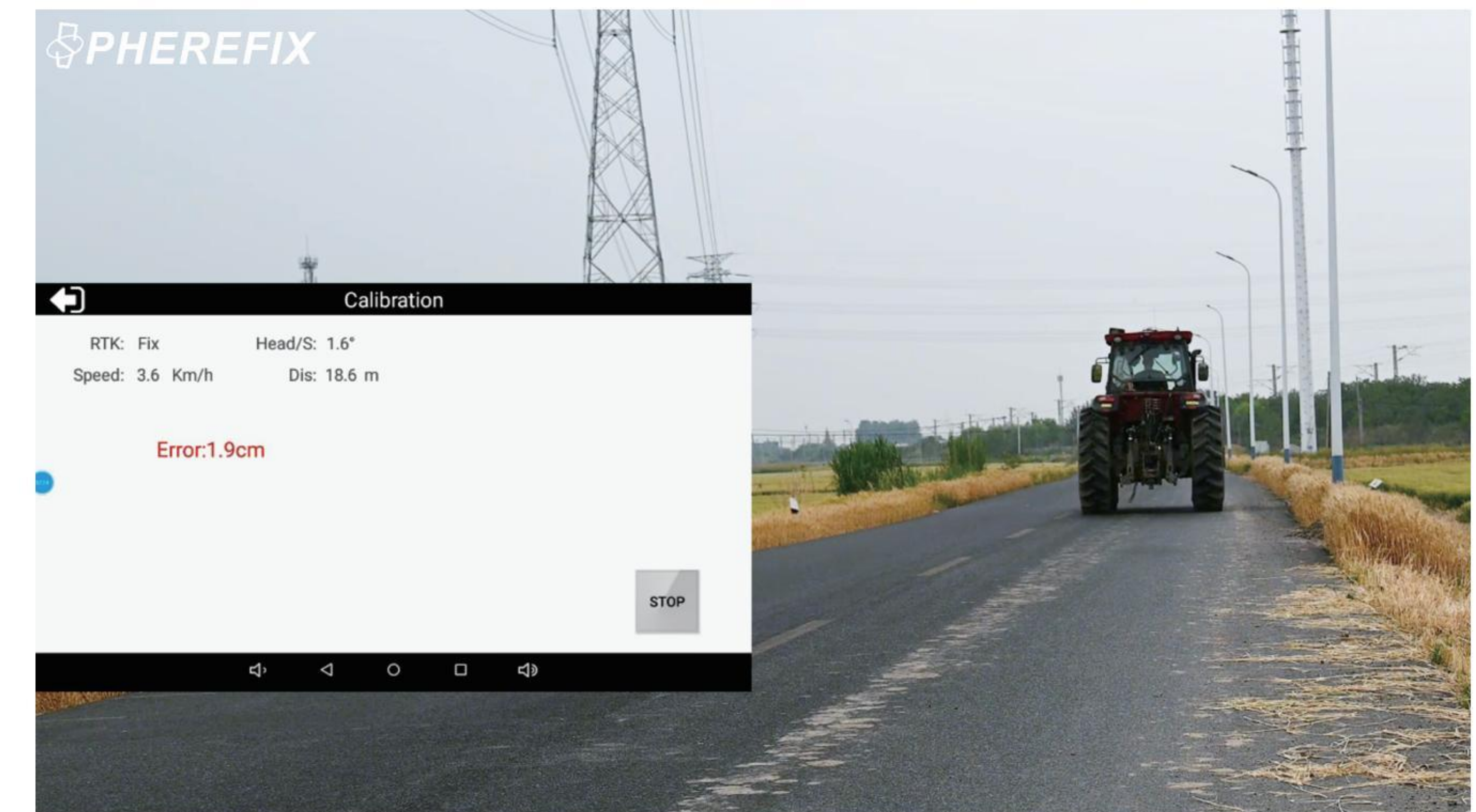
9. Hold tractor stationary for 10s.



9. Click on "SET A" and drive in a straight line for at least 5m and then click on "SET B".



10. Keep driving in a straight line for more than 30 meters until "STOP" turns to "OK".



11. Click "OK" to complete the calibration.

