(android)

Four-wheel alignment manual

preface

This manual is designed for the use of practical products, the company does not assume any responsibility for the consequences caused by the use of it to guide the operation of other equipment.

The company and its branches shall not be liable for any expenses and expenses arising from the damage or loss of the equipment due to the accident of the user or any third party, misuse or misuse of the equipment, unauthorized alteration or repair of the equipment, or failure to comply with the operation and maintenance requirements of the utility company.

Utility shall not be liable for any damage or problem of the equipment caused by the use of other selected parts or damaged products other than the original products of Utility or products approved by Utility.

Official Disclaimer: Other product names mentioned in this manual are for the purpose of explaining how the equipment is to be used, and the registered trademarks of which remain the ownership of the original company.

This equipment is for the use of professional technicians or maintenance personnel.

Matters needing attention

The operator of the instrument must pass the training of the company, and can operate after passing the training.

The operator must have some basic knowledge of computer application.

The operator must understand the basic knowledge of four-wheel positioning.

Check whether the power connection line contact is reliable, whether there is damage.

If the power supply voltage is unstable, please equip your own AC regulator.

Check whether the car lift is firm and level regularly to ensure the correct test and the safety of personnel.

Remove obstacles around the car lift so as not to affect the operation.

Check all loose bolts and parts at the end of service and tighten them up for safety.

Four-wheel locator can not be placed on a vibrating object or tilted, should avoid direct sunlight or humidity.

Four-wheel locator belongs to precision testing equipment, there are sensitive components, in the process of use should be taken gently, do not throw random, otherwise light will lead to shell deformation, heavy will lead to internal components failure, affect the normal use.

Avoid splashing liquid on the surface of the four-wheel locator, lest liquid enter the system and cause permanent damage.

After use, please cut off all power supplies.

Four-wheel locator is tested through the method of image, do not let the strong light to the sensor interference, and should avoid the object between the sensor blocking the light.

Excerpt parameters:

Measurement parameters, range and accuracy

1 Total front beam Angle

Measuring range: ± 6 ° .

Accuracy: ± 4’ in ± 2 ° range, ± 10’ in other ranges.

2. Front beam Angle of single wheel

Measuring range: ± 3 ° .

Accuracy: ± 2’ in ± 2 ° range, ± 5’ in other ranges.

3. Wheel camber

Measuring range: ± 10 ° .

Accuracy: ± 2’ in ± 4 ° range, ± 10’ in other ranges.

4 kingpin rear Angle

Measuring range: ± 15 ° .

Accuracy: ± 2’ in the range of ± 12 ° , ± 10’ in other ranges.

5 kingpin incliner

Measuring range: ± 20 ° .

Accuracy: ± 6’ in range of 0 ° -- +18 ° , ± 10’ in other ranges.

6 thrust Angle

Measuring range: ± 6 ° .

Accuracy: ± 2’ in ± 2 ° range, ± 10’ in other ranges.

7 axis Angle

Measuring range: ± 6 ° .

Accuracy: ± 2’ in ± 2 ° range, ± 10’ in other ranges.

8 Indicates value requirements

8.1 Display value resolution

The angular resolution is 1’, where the forward beam value is 1’ in Angle or 0.1mm in mm.

8.2 Zero drift

Zero drift is not greater than 4’ within 30min.

8.3 Indicating value error

The value error is ± 4'.

8.4 Indicate value stability

The indicated stability is ± 2' within 10s.

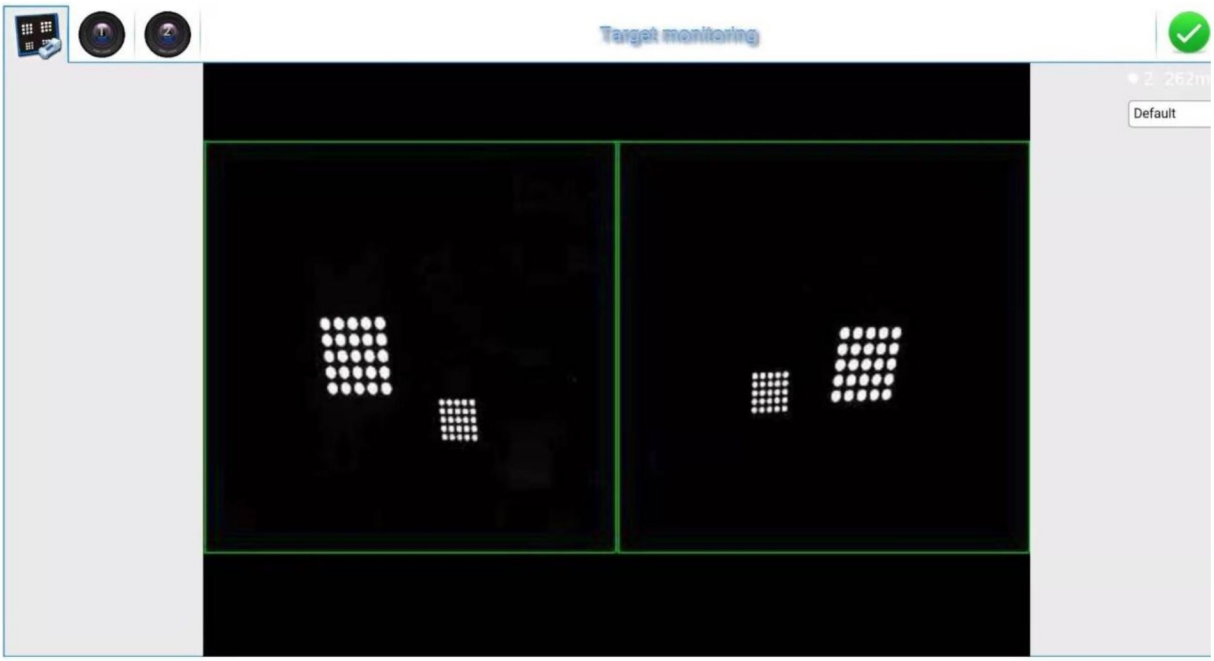
The way the Android box is wired to the transformer:

Positioning detection: the whole process is operated by mouse

Select the quick positioning icon on the main interface (as shown below) to enter the positioning and detection interface:

Positioning detection is the main part of this software, including target monitoring, rapid positioning, maintenance data, system setting four steps.

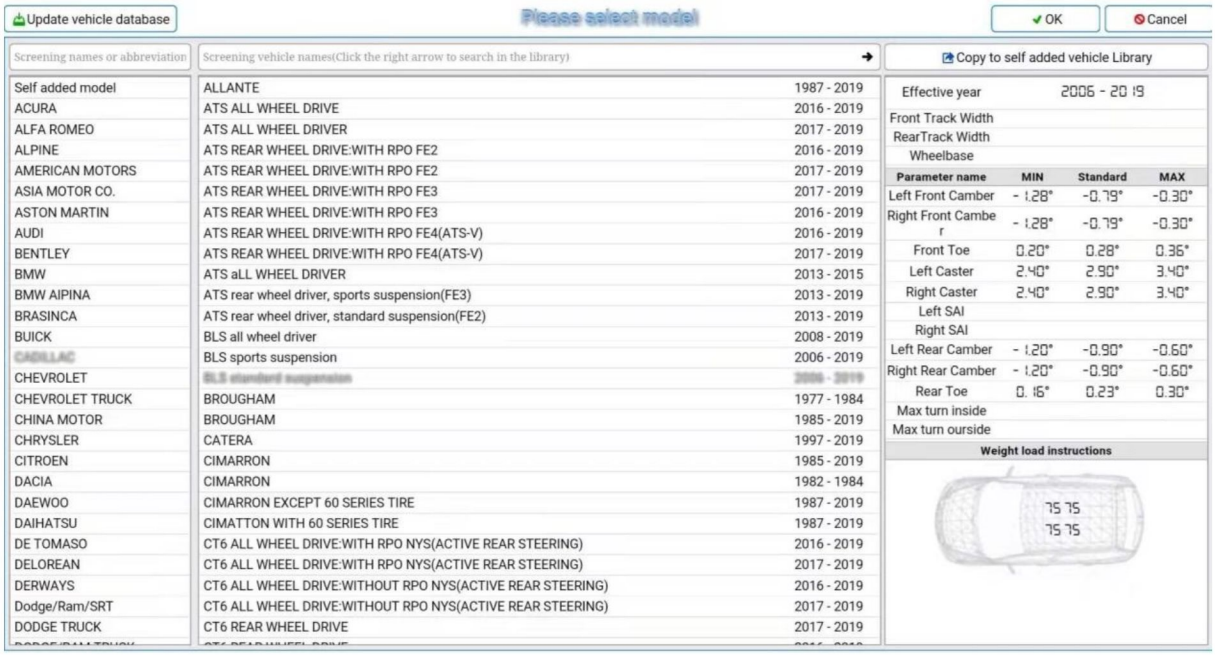
Target monitoring: Target should not be too close to the edge of target monitoring



Rapid positioning

As the first step of positioning detection, it is necessary to introduce standard data for the tested vehicles. Standard data should be introduced

from this table for reference in the subsequent testing process. The interface is shown as follows:



Operation method:

Based on the model you are testing, click the corresponding entry directly to introduce this data into subsequent tests.

Note:

1. The process of detection operation does not have to be operated in the default order of the system.

The operator can also jump directly to the test that needs to be done according to the actual need.

Simply select the test action you want from the navigation bar at the top of the page.

2. The table currently provided is the same as the common data in the system management page. You can also add the standard data of the system to this table.

Start location survey

The dynamic test interface is as follows:

Interface description:

A Current position of vehicle.

The car on the interface moves up and down according to the position of the actual vehicle.

B Target collection.

If a target acquisition error, the corresponding target image will appear red.

C Pushing prompt image.

The operator can push according to this image.

As shown, the operator is required to push backward.

D prompt bar.

 Operation method:

Step 1 After entering the interface, the system will automatically check the installation status of each target

Step 2 If each target has been installed correctly, enter the following interface.

At this point, the user should push backward slowly and evenly.

And then stop.

Step 3 When the following interface appears, please pull the car back to its original position slowly and at a constant

speed.

Step 4 After pulling back, the system may take a few seconds to calculate. Please
wait.

Step 5 If the measurement is successful, the system will automatically jump to the interface of measurement results, otherwise it will prompt to

re-measure.

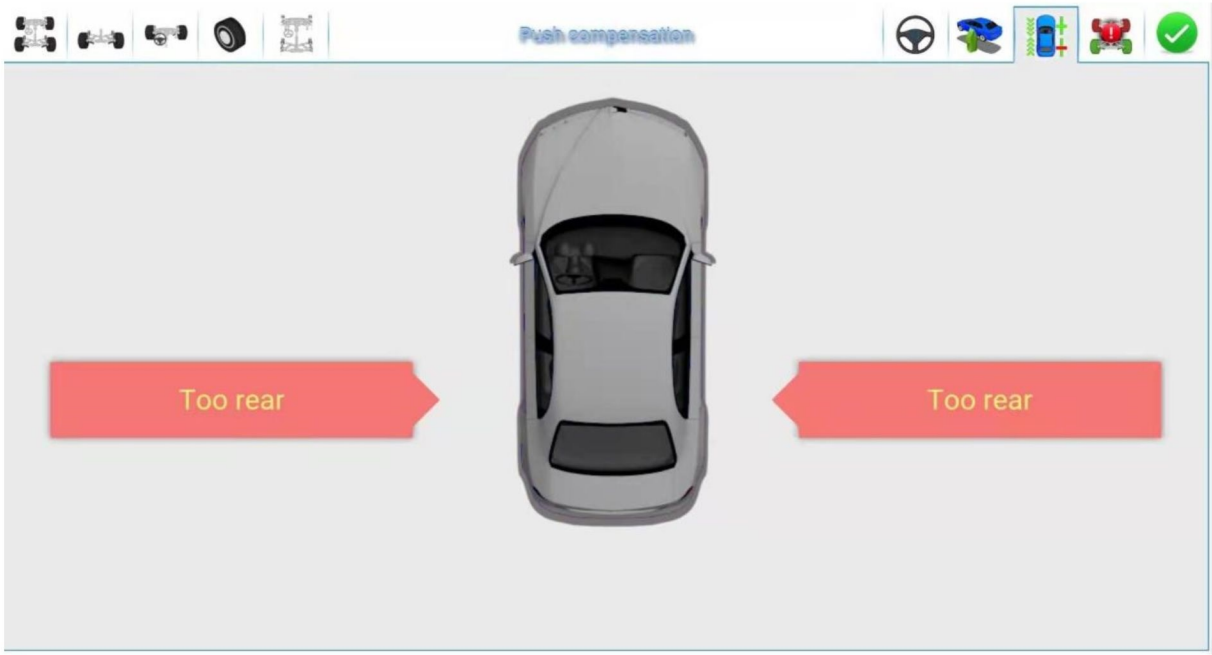
Note:

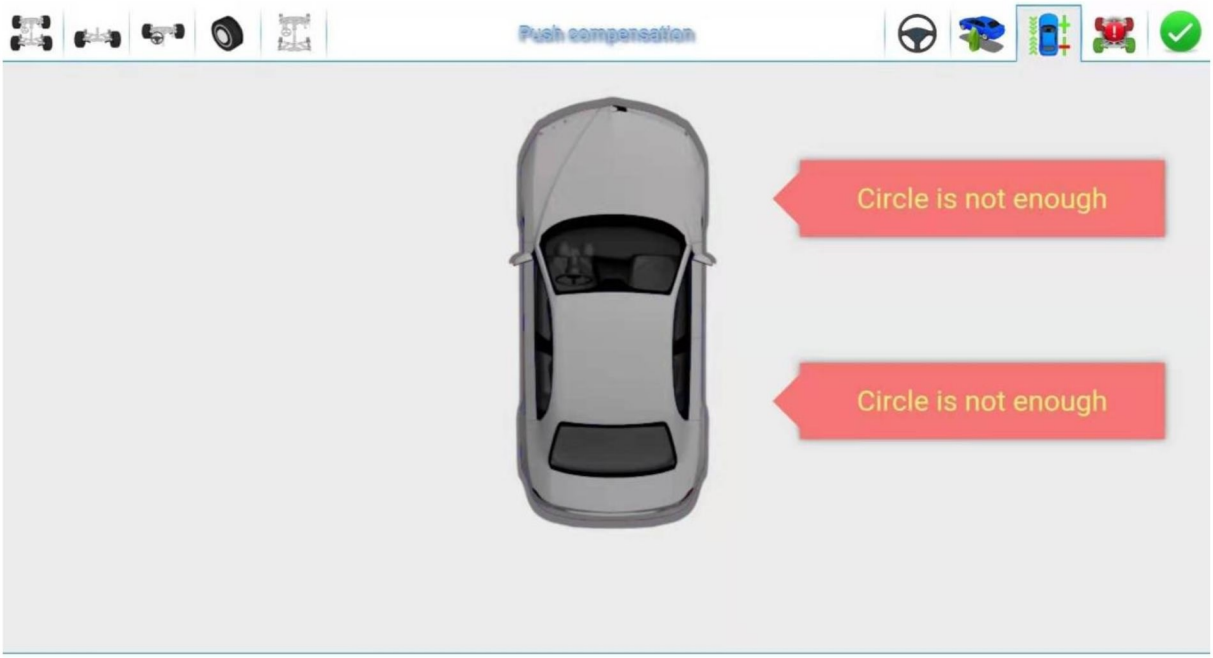
1. In the measurement process, the objects or people between the camera and the target should be removed to avoid the target being blocked and affecting the measurement results.

2. Before measurement, the steering wheel must be centered, locked and fixed, so as not to rotate the steering wheel during the process of pushing, which will affect the test results

3. Before pushing the cart, the four target angles should be adjusted to lean 80 degrees
forward

4, the target Angle is wrong or the target or the camera has gray





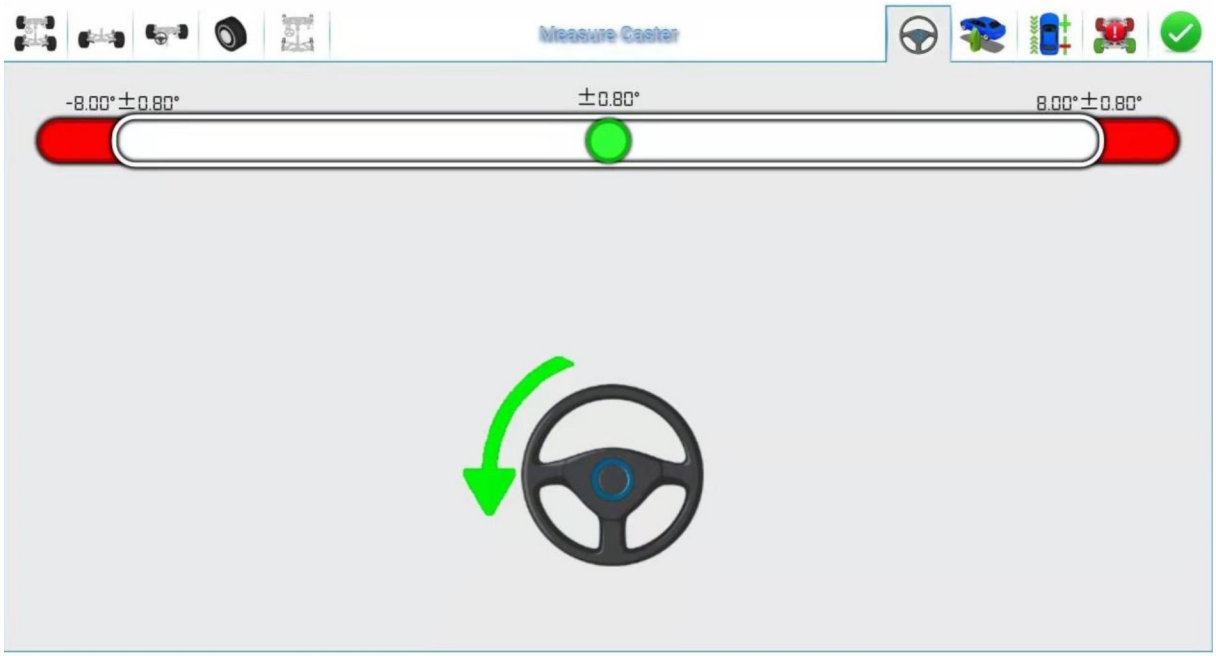
King pin measurement

The kingpin measurements are for the front wheels and include kingpin roll and kingpin roll.

With the kingpin inclination Angle can make the car weight evenly distributed on the bearing, protect the bearing is not damaged, and make the steering force average, steering light.

The existence of the rear Angle of the kingpin can make the intersection point of the steering axis and the road in front of the tire junction, and the road resistance to the tire can be used to keep the car straight forward. The interface is shown in the figure

below:



A Scroll bar.

The green box slides left and right as the steering wheel rotates, and turns red when it reaches a critical point, indicating that the operator should turn the steering wheel in reverse.

B Direction of rotation.

Indicates the direction of rotation of steering wheel.

C Target state.

When the target acquisition error occurs, the corresponding wheel will appear red.

The normal color is shown.

D. Current steering Angle.

E Operation tips.

Operation method:

Step 1: When the steering wheel is adjusted to the straight front state, that is, when the two front wheels are equal to the front beam, the small round ball on the operation interface will move to the middle position.

Step 2: Turn the steering wheel more than 8 degrees to the right. When the steering wheel reaches the specified position, the square will change from red to red (when the steering wheel is less than -8 degrees or more than 8 degrees, the ball will be green).

Step 3: Turn left to the steering wheel is less than -8 degrees, and the box changes from red and green to red after reaching the specified position.

Step 4: Turn the steering wheel to the right, and the main engine beeps three times to complete the measurement when approaching 0 degrees.

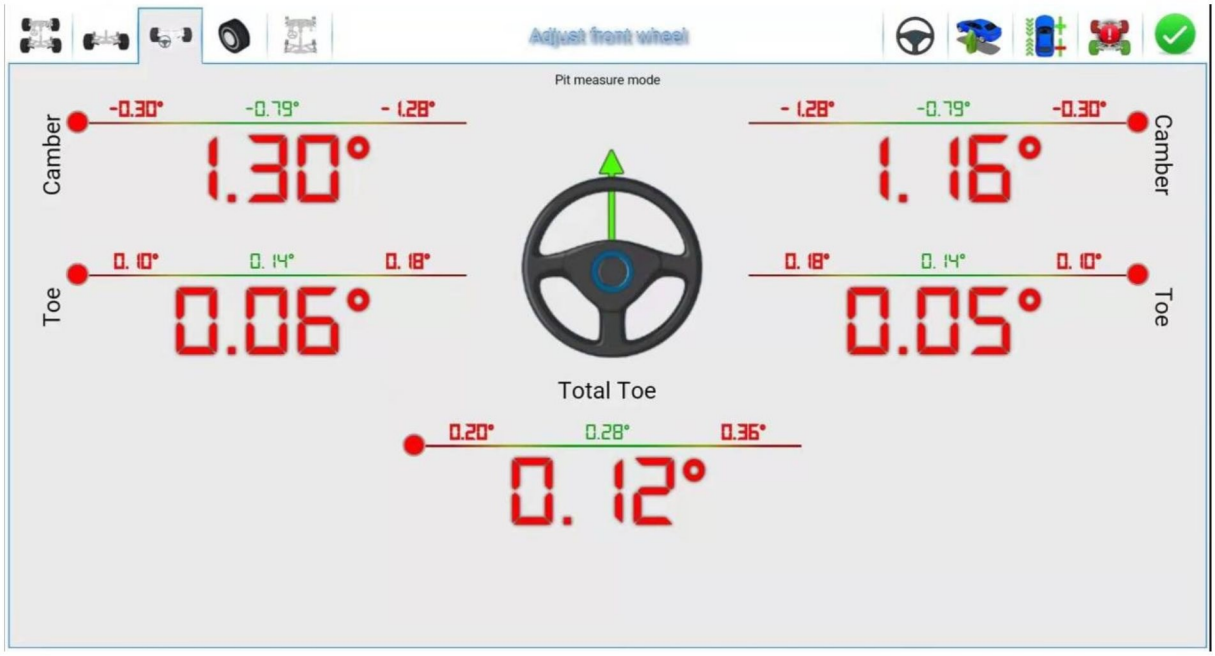
If the measurement fails, the system will prompt you to re-measure, otherwise the system will automatically turn to the interface of measurement results.

 Note:

Before measuring the kingpin, please install the brake plate fixing frame, pull the handbrake, to ensure that the wheel does not roll, and remove the steering wheel fixing frame.

The rear wheels measuring

The front wheel measurement



Adjust the back roll: the front of the steering wheel can measure the back Angle, and then like the camber, the need to jacking adjustment is pressed to rise the

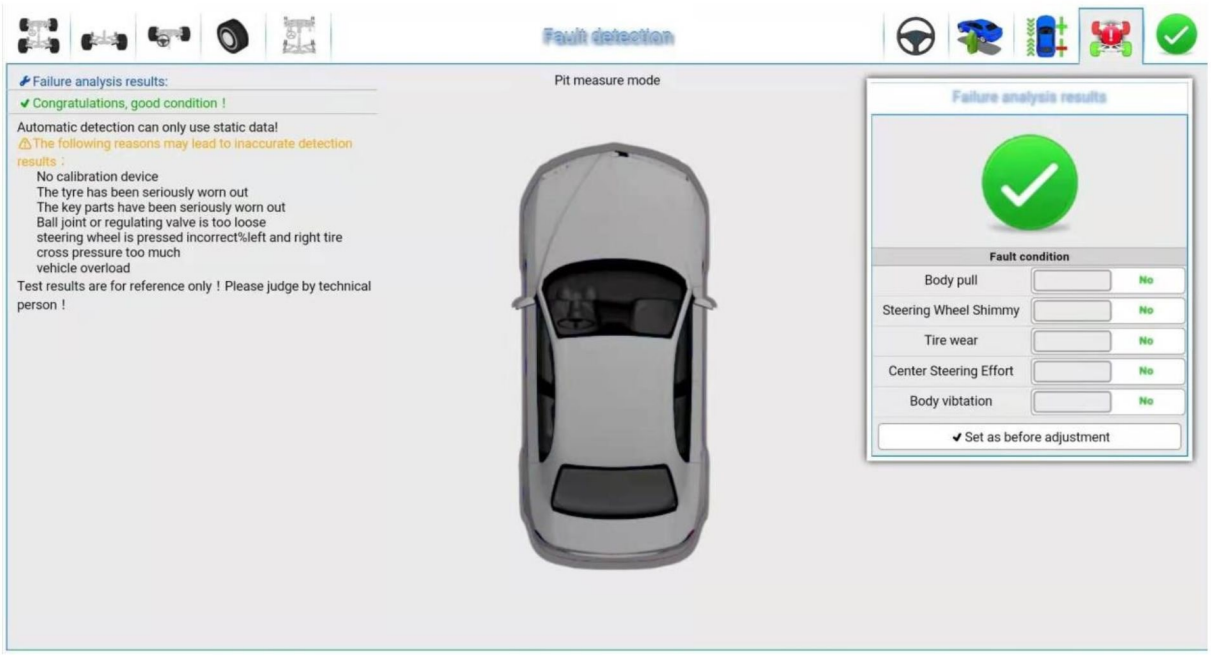
vehicle.

At this time, lift the body, in place, press the completion, you can adjust the wheel.

After adjustment, press down

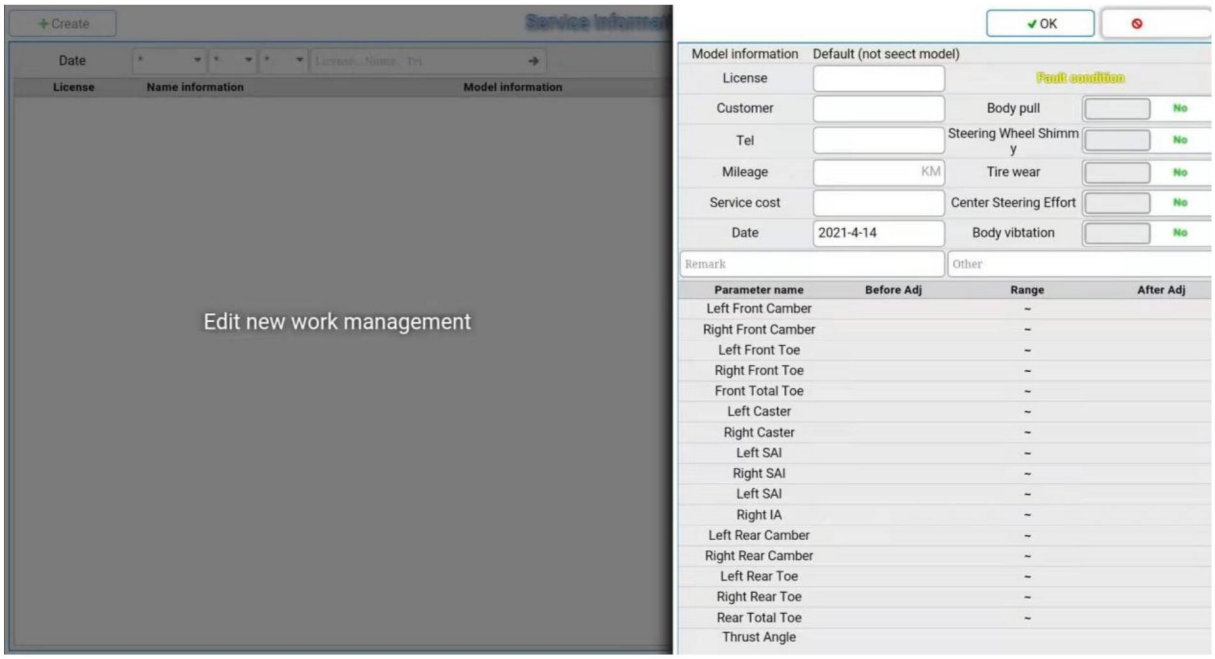
Chassis measurement: can measure the wheelbase, wheelbase and other chassis data.

Fault detection



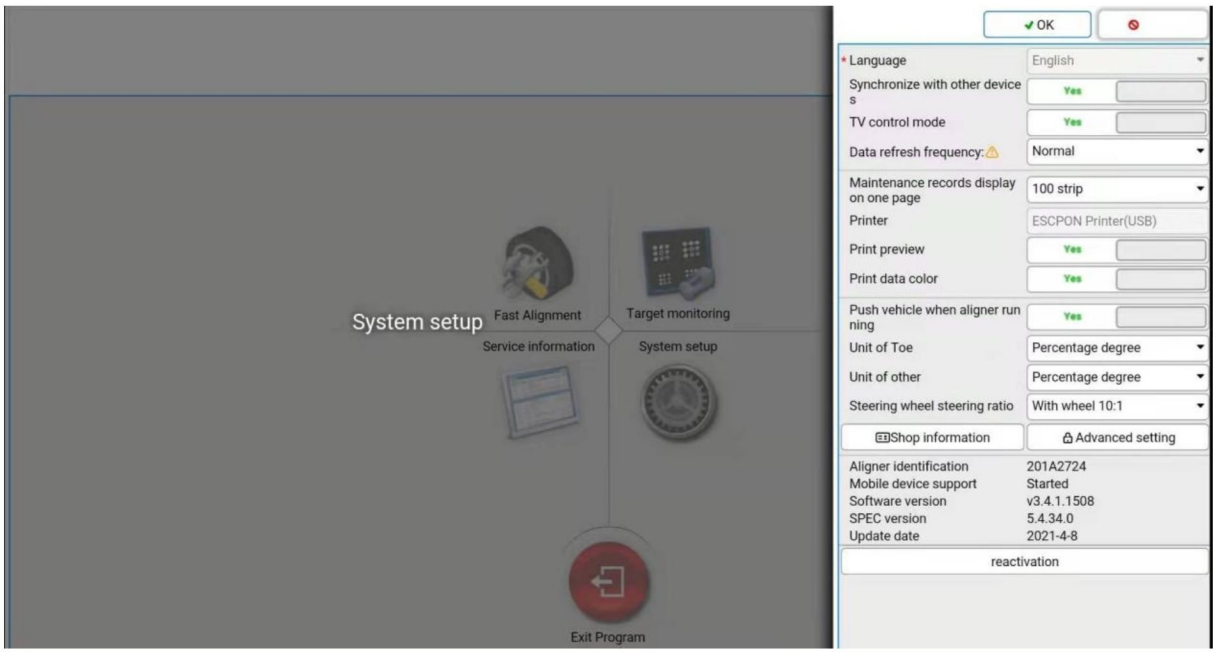
New Maintenance Record

After the detection operation is completed, enter the interface, the system automatically import the detection data, import the user's information by looking up the license plate number, complete the operation and record the cause of the failure.



System Settings

Select the system setting icon on the main interface to enter the system management interface, as shown in the figure below:



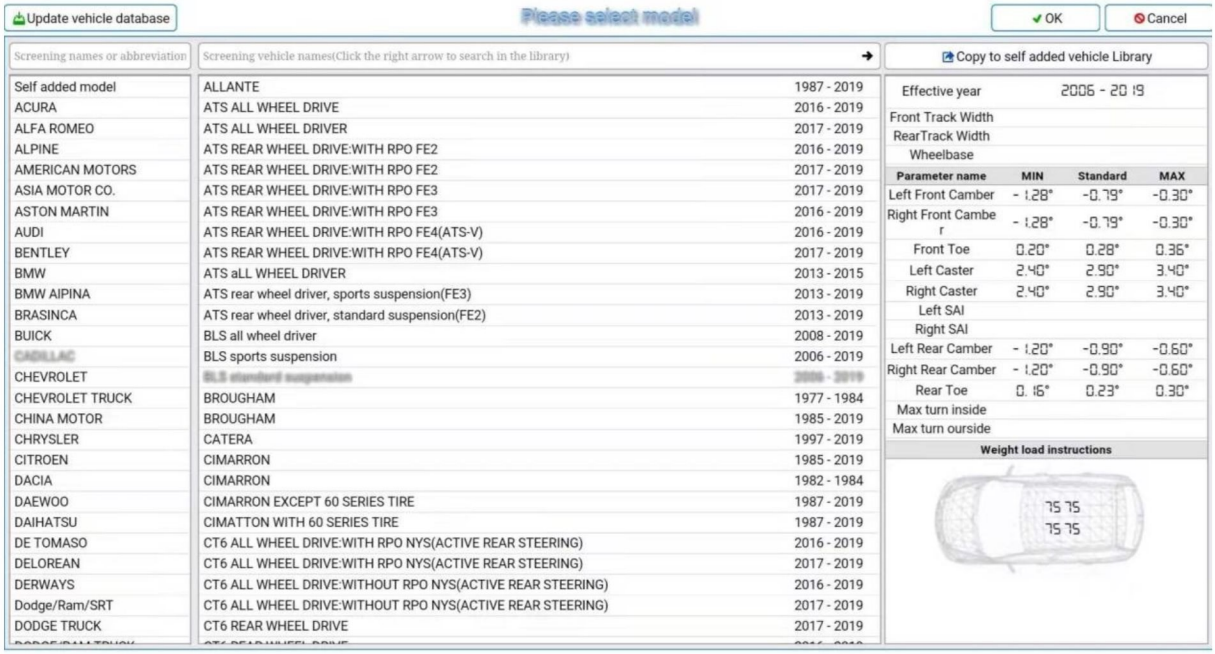
Through the system management can carry out a full range of management and maintenance of the system operation, which provides a number of functional options.

Standard data view

This page provides the parameter information of each model of car factory setting.

The database contains the information of various series of products produced by many manufacturers at home and abroad during the production period, and the contents of the database can be timely updated through the operation of system upgrade. The interface is shown as

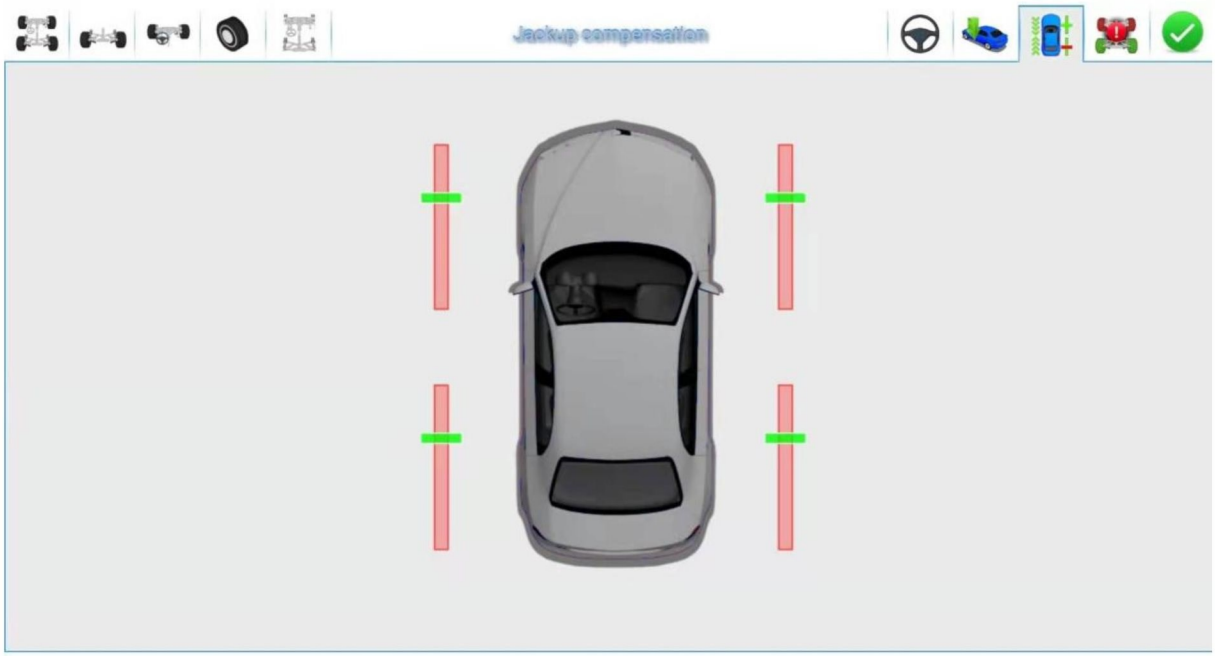
follows:



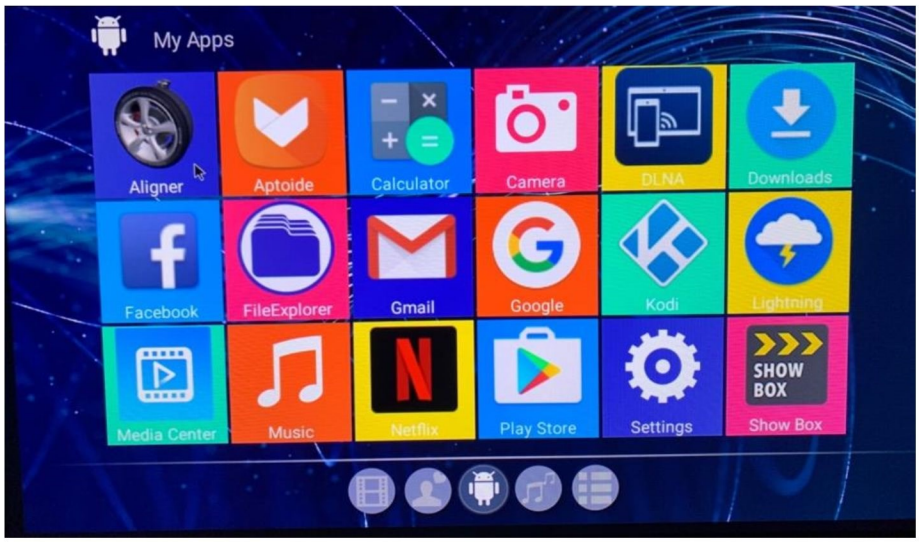
Directly click on the manufacturer and select the corresponding model.

This system provides the function of printing information, in order to facilitate the operator in the process of operation can be convenient to check the data.

Note: there is another non-cart wheel compensation method: lift wheel compensation, which is to rotate each tire to compensate after lifting the car. This is also for customers who do not want to push or do not have room to operate.



Go back to the main menu and reenter by clicking "My Application" to find the wheel location program with the tire logo.


My Apps
Aligner
Aptoide
Calculator
Camera
DLNA
Downloads
Facebook
FileExplorer
Gmail
Google
Kodi
Lightning
Media Center
Music
Netflix
Play Store
Settings
SHOW BOX
Show Box