

STEERING WHEEL SYSTEM UPGRADE



#### **Instruction Book**

Please read the instruction manual carefully before use and take good care of it. If you do not understand the product and after-sale service, please contact the local sales department for consultation!

Thank you for using our steering wheel system.

### **Preface**

Thanks for your choosing of our steering wheel LED system. With the improvement of social life and technologies, people have higher requirements on life's quality, especially the requirements on higher standard to motors, and the pursuit of comfortableness and safety have been put forward to the schedule. The steering wheel LED system provides convenient and safe security for the driving process, which reduces the accidents due to the distractions in driving.

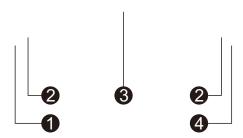
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### I. Appearance instructions

### 1. Display and Operation



1 left L controller 2 LED light 3 displayer 4 right R controller

There is a short-pressing button and a long-pressing button. Long pressing means press the L or R more than 2s. When dual-clicking, you must press the second time within 2s. There are 6 buttons in total, the initiations are as followed:

Left short-pressing	LK	Left long-pressing	LL	Right short-pressing	RK
Right long-pressing	RL	Right dual-clicking	2xRK	Left dual-clicking	2xLK

### Connecting the PVS intelligent wheel system

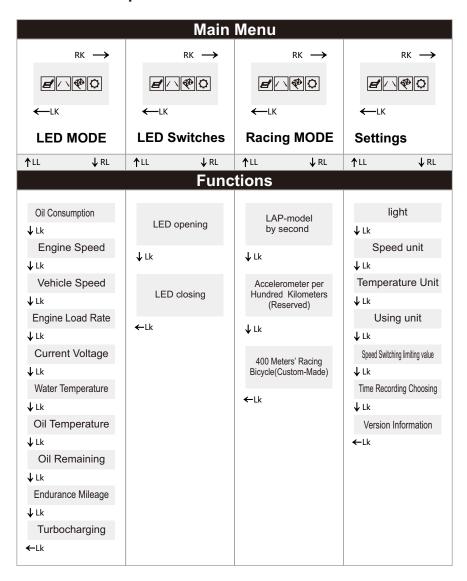
After starting up, there will be LOGO on the displayer. When the LED lights, the instructing lights will be off.

Opening up the displayer and LED, pressing the LL and RL at the same time. After starting up, display will show the off sign, pressing any button to close the displayer within 3s.

### **Used Marks**

Moving as the arrows Finishing Instruction

### II. Function Map



### **III. Navigation Instructions**

#### Main Menu

There are mainly four menus: ED/LED/racing/setting, choosing the related function in the menu by LK or RK. At this time there will be larger marks and related functions. By RL, you can obtain the related expected menu.

#### **Functional Unit**

In the functional menu, you can get the individual function menu by LK, and jumping to the first one from the last one. You can choose any functional menu by the introduction buttons. For entering the main menu, pressing the LL.

The characteristics of it are the control button in setting pattern, which will be introduced in the later setting pattern.



It is usually used in the setting button with logic, and then you can enter to hollow part by pressing RL, which LL can enter to swollen part, which can also be used in the subfunction. ◀

### **LED Indicator Light**

### (a) Matching with engine speed

When the vehicle is speeding up, the engine speed becomes larger and the LED lights with different colors to provide assistance for drivers, so that they can know the active information of the vehicles.

#### (b) Matching with steering angle

When parking, rotating the steering wheel, and then the LED will shine different colors according to the direction.

### (c) Matching with the flashing turn lights

hen opening the turn lights, the LED will shine different colors.



Once you enter into the LL and RL in the main menu, you can close the displayer and LED lights. Entering into the LL and RL at the same tine, you can re-open the displayer and LED.Product Introduction

#### **II. Technical Parameters**

Working Voltage	12V-16V
Working Current	main part<40mA/ displayer<25mA
Quiescent Current	3mA
Applicable Temperature	-40°C~+85°C
Working Frequency	2.4GHz
Sensing Distance	10m

#### **III. Main Functions**

- 1. Fuel consumption details
- 2. Perception of steering wheel angle
- 3. Dynamic steering expression
- 4. Time recording
- 5. Dynamic sensing of rotating speed
- 6. Racing mileage records
- 7. Engine information presentation
- 8. Special information setting up
- 9. Endurance Mileage estimating
- 10. Turbocharging displaying

#### IV. Product Features

- New design, non-broken allocation
- Dual-core design, lower power using is more reliable
- 3. 2.4G wireless hopping technology is more stable
- 4. Interaction of man and car
- 5. Standard and Quality

### V. Matching Action

- 1. When the key is in ON button, pressing the button of main OBD module more than 5s, the LED lights will shine quickly.
- 2. Pressing the LL and RL on the wheel at the same time more than 5s, the functional unit on the displayer shines guickly.
- 3. The speed of the LED becomes lower, and there is "Matching Success" on the displayer.

### I. ED Model Function

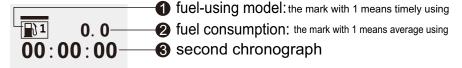


ED model provides different functions for supporting the fuel-using priority. There are 10 functional units in ED model in total, and these units can be controlled by LK button. Furthermore, LED provides visual help for drivers to master the vehicle information better



There will be different arrangements based on the vehicle types, and there may be some functional unit which cannot be shown.

### Fuel Using by Second



#### [a] second chronograph

There will show hour-, minute-, and second-model in the display. The largest time value is 23:59:59, and then the timer will jump back to 00:00:00.

0.0 00:00:08

Pressing RK for starting up second chronograph

0.0 00:08:08

Pressing RK for closing second chronograph

0.0 00:00:00

Pressing LL and RL at the same time to set up the second chronograph

When using the second chronograph, you can adjust the other functions in the ED model. Besides, you can change to LED and setting up pattern. The timer will be operate in the backstage. When displaying second chronograph, you can count on the time. As long as the second chronograph is operating, you can not change to racing model. When closing the starting up system, the second chronograph will be off and save the time for you. Connecting the starting up system, the second chronograph begin to operate again.



#### [b] oil using

The oil using can be expressed as each country, and you can see the details in the chapter of setting up model. Pressing RL,it can be switched between timely oil using and average one.

#### **Timely Oil Using**

Timely oil using is a 10km distance for moving average, and it is updated per 100m. If it is possible, it can be shown as the choosing country.



when closing the system, saving the number and keeping it the the saver no more than half an hour, and then clearing up it. ◀

#### **Average Oil Using**

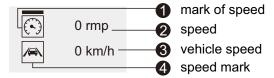
Average oil using is the amount of oil using since the last setting up, and it also can be shown according to the country.



Before closing the system, the value is stored in the individual saver.◀

No matter which one is used, it can be set up with LL and RL buttons.

### **Engine Speed/Vehicle Speed**

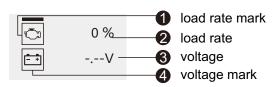


It shows the engine speed and vehicle speed timely, so that to control the vehicle model.



After closing the system, these date will be cleared off. ◀

### **Engine Load Rate/Vehicle Voltage**

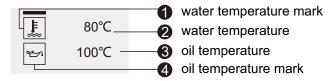


It timely shows the engine load rate so that to control the vehicle model.



After closing the system, these date will be cleared off.

### Water Temperature/Oil Temperature

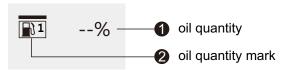


It timely shows the water temperature and oil temperature so that to control the vehicle model. According to the setting up , it will show the temperature with °C or °F



After closing the system, these date will be cleared off. The warning data will be saved in the saver.  $\blacktriangleleft$ 

### Remaining Oil

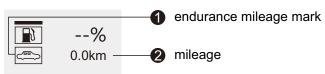


It timely shows the remaining oil so that to control the vehicle model.



fter closing the system, these date will be cleared off. The oil data will be saved in the saver. ◀

### **Endurance Mileage**

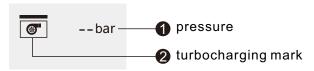


It timely shows the endurance mileage so that to control the vehicle model.



After closing the system, these date will be cleared off.

### **Turbocharging**



It timely shows the turbocharging so that to control the vehicle model.

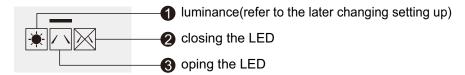


fter closing the system, these date will be cleared off. ◀

### **II. LED Switching Function**



Through this function, you can open or close the LED so that to better control it.



Providing the signs for opening or closing the LED so that to better control it.

Using the LK or RK to open or close it. Choosing to open all these LED and saving it by pressing LL.



### **III. Racing Model Function**



Racing model provides special functions for racing road.



It cannot be used to the unsuitable roads. Drivers have the responsibility to drive in a suitable way. You cannot try dangerous driving way or it may be accidents. Racing model functions cannot be used in public roads. ◀

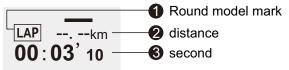
### LAP Racing Timer(round time/distance)



Illustration:

Fast racing road in Huanan, comparatively shorter

LAP racing timer is designed for racing and can count on the time for one round(no more than 0 round). It can save every largest time and speed for each round and can show them later. The following example is the timer on fast racing road in Huanan.



It shows minute, second, millisecond, and LAP on the displayer, the largest one is 59:59'99



after one hour, it cannot be shown by millisecond.

### **Example**



Pressing the RK to race

(example: racing quickly over starting line/terminal line) Once begin, L01 on the displayer means the first round

L01 150.01km 00 · 52 ' 03

Pressing RK, you can count on the time and distance for the first round.

The time is is lasting 3s. During this time, the timer operates in the backstage. After 3s, it shows the time of second round from 0.

Pressing RK, you can count on the time and distance for the second round.

The time is is lasting 3s. During this time, the timer operates in the backstage. After 3s, it shows the time of third round from 0.

#### Repetition as it.

During the course, you cannot use other functions. The timer operates in the backstage. Only showing the timer, you can begin to count on the time.

Pressing 2xRK, you can closing racing. After 3s, transferring to CUR model and all the total time.

LAP 460.12km
01:54'06

Under such circumstance, the last round's time cannot be counted, so it cannot be saved as the total time.

Dual-clicking after over the target 3s.

LAP 460.12km

01:54'06

Canceling all the date and pressing the LL and RL.

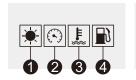
Accelerometer per Hundred Kilometers(Reserved)/400 Meters' Racing Bicycle(Custom-Made)

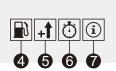
### IV. Setting Up Model Functions



Setting up model is used to choose the LED and the individual setting up.

Under the setting up model, you can press LK and RK to control, like checking in the form, which will show the mark of reversing. Due to the7 control menus, there are two showing menus,1-4 and 5-7. When transferring from 4 to 5 or from 7 to 1, the menus will change.



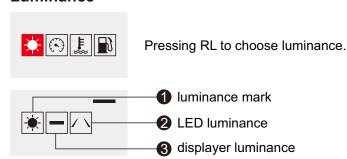


- luminance(displayer and LED)
- 2 speed unit
- 3 temperature unit
- 4 oil using unit

- **5** speed switching limit value
- 6 time-recording model choose
- version information

Pressing RL to choose the function. Setting up the form to choose the functions

#### Luminance



Pressing LK or RK to set up for the displayer and LED. Pressing RL to confirm your choice.



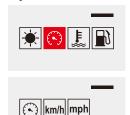


In order to decrease the luminance of displayer or LED, or you want to increase the luminance of displayer or LED, please press RK. For saving your choice, please press LL.

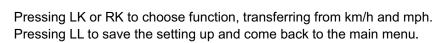


when decreasing the luminance, you should close the displayer, so you must press LL and RL at the same time at least 2s.◀

### **Speed Unit**



Pressing RL to choose speed mark



### **Temperature Unit**



Pressing RL to choose temperature mark

Pressing LK or RK to choose function, transferring from °C and °F.

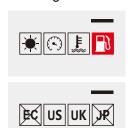
According to the choosing unit, pressing LK to set up the water temperature.

You can increase or decrease the value by LK or RK.



Over the valve, the indicating light will shine and warn you the possible over-heating for the engine, matter what the contents are.

Pressing LL to save the setting up and come back to the main menu.



Pressing RL to choose oil box mark

Pressing LK or RK to choose function, transferring from every items.

[1] EC(L/KM) [2] US(M/AG) [3] UK(M/IG) [4] JP(KM/L)

Pressing LL to save the setting up and come back to the main menu



when it refers to km/h in choosing the speed unit, you just can choose EC and JP for oil using unit. If choosing mph, the oil using units are US and UK

### **Speed Switching Limit Value**



You can adjust LED based on the vehicles or your driving ways by setting up. The limit value is shown by one LED. The value can be changed to the best button or the highest value. Pressing RL to choose any limit value.



Pressing LK or RK, you can reduce or increase per 100 from 1000 to 9900 Pressing LL to save the setting up and come back to the main menu

### The arrangements of LED are as follow:

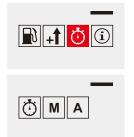
[1] LED in 50%-60%(green) [4] LED in 80%-90%(yellow)

[2] LED in 60%-70%(green) [5] LED in 90%-100%(red)

[3] LED in 70%-80%(yellow)

### **Time-recording Model Choose**

If necessary, you can measure the time by hand or measure by toucher



Pressing RL to choose second mark

Pressing RL to choose second mark

[1] M=measure by hand [2] A=measure by toucher
Pressing LL to save the setting up and come back to the main menu

### **Version Information**



Pressing RL to choose version mark

OBD:1811151950 S W:1811151937

Pressing RL to choose version mark

- [1] OBD: means the connection in OBD(Nov,15th, 2018, 19:50)
- [2] SW:means the number on wheel(Nov,15th, 2018, 19:37)

# Pressing LL to save the setting up and come back to the main menu

### Common Questions and Answers Cannot be handle after allocation?

- [1] checking the current /ACC
- [2] checking the connection
- [3] checking the matching of main land and pressing land

#### The backlight doesn't work?

- [1] checking the switch
- [2] checking the connection
- [3] checking the using of matching Safety Tips and Precautions

#### The light doesn't work?

- [1]checking the opening of ACC
- [2]checking the connection
- [3]checking the matching of them

#### The horn calls long time?

- [1]checking the matching
- [2]checking the supplement
- [3]checking the correction

### **Notice & Safety Tips**

### Safety Tips

- [1] Before using this product, please read the safety tips carefully and do as It follows, in case of any unnecessary problems, so that the functions can be deployed in the best mode.
- [2] Don't use the product in non-operating temperature.
- [3] There may be some small part, please put it beyond the children, in case of swallowing some small parts or any other accidents.
- [4] Don't throw the parts as common life garbage, obeying the locally environmental principles.

### **Precautions**

- [1] Steering wheel heating system is an assistance.
- [2] Ensure to operate the products in a secure mode.
- [3] Don't pour liquid on the products.

### Warranty Services and Policies

### I. Warranty Policies

Thanks for your purchasing, under the normal using, you can enjoy the three guarantees.

From the day of your purchasing, if there is any quality problem, you can have the following warranty services:

- 1. From the purchasing day, after 3years or 100,000 kilometers, we will provide free services for you after confirmation.
- 2. We provide lifetime warranty, but we will charge an appropriate fee.
- 3. The following cases are not included in the three guarantees.
- 1) breaking out or rechanging artificially
- 2) the unresistable factors, such as natural disasters or car accidents, cause broken up
- 3) the purchasing information is not filled truly.
- 4. The right of final interpretation of these warranty policies belongs to PVS Automotive

### **II. Warranty Certificate**

The certificate is the warranty certificate, please fill it carefully. If obliterated, it will be canceled. After filling it, please hand the second page to dealers or our company by express.

User Stub of the first page

Vehicle Model: Type Model:

Bar Code:

The name of dealer or purchasing store:

Mob: Stamp:

### User Receipt of the second page

Vehicle Model: Type Model: Clients Name:

Mob: Add:

The name of dealer or purchasing store:

Mob: Stamp: License Plate Number: Purchasing Date:

License Plate Number:

Purchasing Date:

Bar Code:

