Head-up Display (HUD)

Use Instructions

Product Overview:
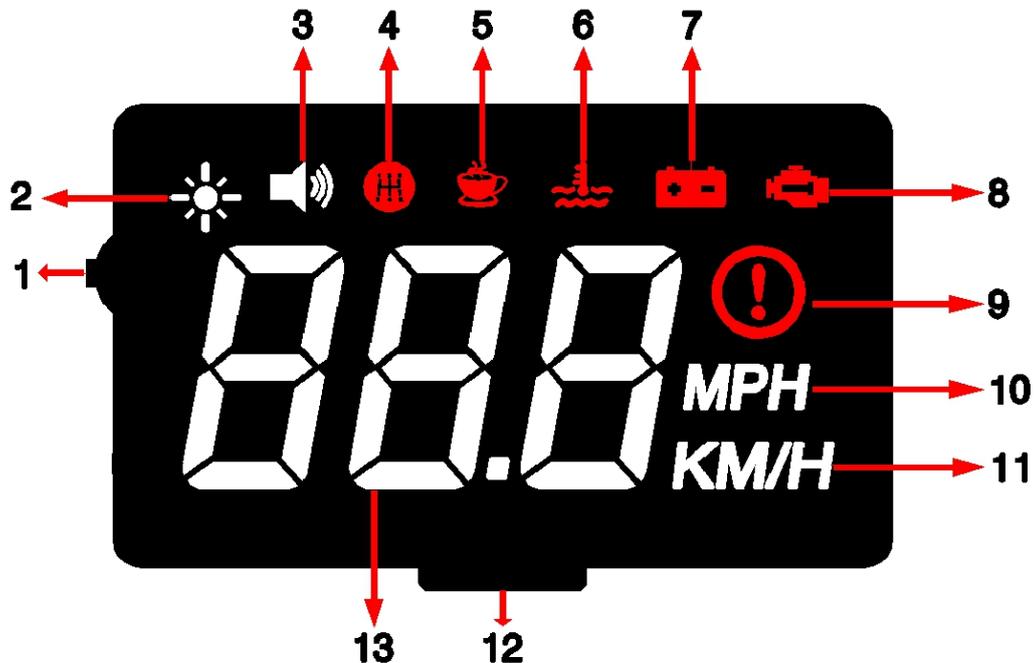
1.Thumb wheel key   2.Photosensitive element   3.Audible prompt
4.Shifting prompt   5.Fatigue prompt   6.Water temperature alarm
7.Voltage alarm   8.Fault alarm   9.Overspeed alarm
10.Speed in MPH   11.Speed in KM/H   12.data connection port
13.Mufti-functional display area (speed/water temperature/voltage/driving mileage)

Alarm function introduction:

1. Overspeed alarm

When the car speed exceeds the set speed of 120, the buzzer

sends out "DD" alarm sound and the graph (⚠) flashes.

3. Alarm for excessive water temperature

When the water temperature exceeds 100℃, the buzzer emits "DD" alarm sound, and the alarm indicator light () and the current water temperature value flash.

4. Alarm for too low voltage

When the voltage is lower than 12V, the buzzer sends out "DD" alarm sound, and the alarm indicator light () and the current voltage value flash.

5. Fault code alarm

When the vehicle has a fault code, the buzzer will send out "DD" alarm sound, and the alarm indicator () and alarm code L00 will flash.

6. Voice prompt

When the sound icon () is on, all the buzzer sounds are on, and when the sound icon is off, all the buzzer sounds are off.

7. Shift gear hint

When the rotating speed exceeds 2300, the buzzer gives out "DD" alarm sound and the graph () flashes.

Installation procedure:

1. Plug the other end of OBD line into the HUD host when the vehicle is turned off.
2. Plug the HUD's OBD connection port into the car OBD connection port.
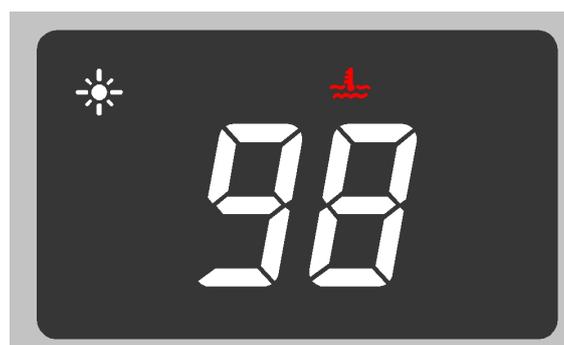3. Initiate the vehicle.
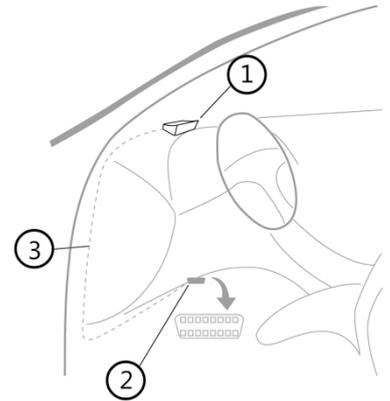
Display introduction:

Vehicle speed display:

## Automobile battery voltage display:

Car engine water temperature display:

Thumb wheel Usage Introduction:

When the vehicle is in normal situation (displayed speed is 0KM/H):

1. Dial the wheel upward; Adjust the overspeed alarm value (default 120, adjustable range 40-250)
2. Dial the wheel downward; Switch to display speed, voltage and water temperature (start up default display speed)

push upwards

push inwards   push thumbwheel key

push downwards
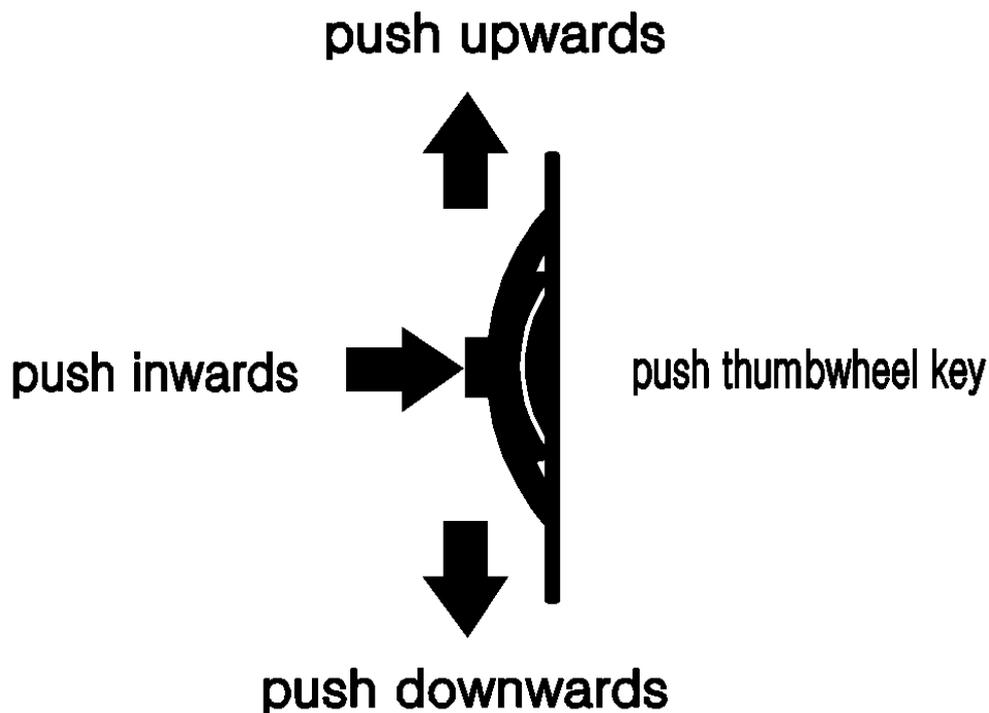
Eliminate engine failure

Under the normal ignition condition of the car, press and hold the dial wheel until the screen lights up, then release the dial wheel button to enter the setting mode, and the screen will be displayed as Menu 1.Then can through the toggle dial up and down buttons to choose (9), choose the menu item and then press the thumb wheel into the menu, set the default value is 2 then close, and through the toggle dial wheel up and down key change setting value, to set the value of 1,short press the thumb wheel button in the exit to the menu item (9), exit to the menu item to long press dial wheel until the screen display can loosen the thumbwheel button battery voltage, motor fault clearance.

Introduction to setting mode:

Hold the thumbwheel to screen all bright, then dial the wheel button to enter setting mode, and screen display of menu (1).At this time can through the toggle dial up and down buttons to choose other menu items (1) - (13), choose to want to change a menu item and then press the thumb wheel began to set the value of the menu, and through the up and down toggle thumbwheel key change, change after the numerical press the thumb wheel exit to the menu item (1) - 13)), and then hold down the thumbwheel for a period of time until the screen display can loosen the thumbwheel button battery voltage, complete set.

Tips: 1.Set when the car is in ignition state ; 2. Set with observing the number displayed on the windshield.

parameters	Introduction to the numbers
1. Select speed unit	Default option 0, 0: KM/H, 1: MPH.
2. Vehicle speed calibration factor	Default 108. Adjustable range: 80 - 120.
3. Shifting prompt	Default 75, (i.e., shifting prompt at 7500 r/m), adjustable range (15~75)
4. Fatigue prompt	Default 8 hours. Adjustable range: 0 - 8 hours.
5.Water temperature alarm	Default 140. Adjustable range: 90 - 140.
6. Audible prompt	Default 1. 0: buzzer OFF; 1: buzzer ON.
7.Brightness adjustment	Default 0. 0: automatic photosensitive; 1: dimmest; 7: brightest
8. Alarm switch	Default 1. 0: OFF; 1: ON
9.Detect engine fault	Default 2. 0:ON; 1: clear automatically upon initiation 2.OFF
10. Voltage alarm	Default 100 (10.0V). Adjustable range: 100 - 130.
11.Transport protocol selection	Default 0. 0: automatic select 1-3: manual select
12. Restore factory settings	Default 0. 0: OFF .1: ON
13.Select car category	Default 0. 0: normal. 1-2: special

Description of automobile instrument speed:

In accordance with the relevant provisions of the National standard "Speedometer for Automobiles";

   The speed table indicates that the speed shall not be lower than the actual

speed. The relationship between the indicated speed and the actual speed shall be equal to $0 \leqq$ the indicated speed - the actual speed $\leqq$ the actual speed /10+4km/h.

This shows that there is a certain error between the motor vehicle speed meter and the actual speed. The value read by the dashboard is the data issued by the ECU of the car, which theoretically reflects the real speed of the car. However, due to the user's usage habits, the original speed of the car's instrument will be taken as the standard, and the numerical value of the instrument is considered to be wrong. Therefore, the instrument added speed fine-tuning function, but it is a percentage product concept, and may be and the original vehicle instrument some error, are normal phenomena, no need to investigate.

In actual use, the product may encounter relatively accurate low speed (60KM/H) and large deviation at high speed (100KM/H). It is also a normal phenomenon that the actual data issued by THE ECU multiplied by the fine-tuning value shows that the value will exceed several km /H.

The OBD instrument has been calibrated according to the test data models of various vehicles when it is delivered from the factory, which theoretically conforms to the speed display values of most models in the market. Plug and play need not be adjusted. If there is a big deviation in some models, it can be reset according to the instructions.

OBD displays frequently asked questions answer

1. The screen does not light up and the power cannot be connected
Check whether the OBD interface is plugged tightly, plug the unplug interface several times, check whether the car starts, if it still does not show the recommended test of changing the car,
2.The power has been switched on, and the screen will be automatically black after the voltage is displayed.The screen goes black when you turn it on
This model is not compatible，HUD products are only available for OBD2 and EOBD , OBD1 and JOBD are not supported.
3. How to adjust the error of speed
Long press the dial wheel to enter the setting menu and select parameter 2. The default value of adjustable range (80-120) is 108. If the speed is fast, increase it and if it is slow, decrease it.（For example, if the machine speed display value is 100 and the automobile instrument display value is 98, then change the default value from 108 to 107. If the machine shows a value of 98 and the automobile instrument shows a value of 100, the default value of 108 will be changed to 109.）
4. How to adjust the brightness
Long press the dial wheel into the setting menu and select parameter 7. Adjustable range (1-7) 1 is the darkest and 7 is the brightest.
5.Black screen when in use, unable to boot/Restart continuously after starting up

or the car with start-stop function/Petrol-electric hybrid

Parameter 13, default 0 is a normal model, if the above situation is changed to 1 or 2 (special model)

6, Unable to save Settings

After setting the required parameter values, long press the wheel button in the back menu for about 5 seconds, and the setting will be completed when the black screen is restarted.

7. Power runs out within a week

The standby power consumption of this product is 0.25 ma. It is recommended to unplug the OBD if you are not using your car for more than a week.

8.After starting up, the speed is displayed as 0 and remains unchanged;

This vehicle is not compatible.