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PHUD180BD

HEAD UP DISPLAY
User Manual

PHUD18OBD HEAD UP DISPLAY User Manual

HUD short for Head Up Display. It displays driving data on the front windshield such as speed on the car front window glass; avoiding drivers unsafety because of watching the instrument while driving. Drivers can read the driving information instantly, and can always keep the best state on the way with HUD.

HUD MAIN FUNCTIONS & FEATURES:

1. Available for cars with OBD2 and EUOBD port (Car automatic diagnosis system), plug and play
2. Screen 5.5 inch HD display
3. Multi-color design makes the screen more abundant and easier to read
4. Nano-technology to eliminate double reflections, more clear.
5. New function: Driving distance measurement
6. Rich Contents: speed, rpm, water temperature, voltage, instantaneous fuel consumption, average fuel consumption, driving distance measurement, voltage, shift reminders, fatigue driving reminders, low voltage alarm, high water temperature alarm, over speed alarm, engine failure alarm, eliminate the fault code, freely switch between kilometers & miles.
7. Auto power on/off: HUD start and off with vehicle starts and shutdown, effective protection of the car battery; retaining the manual switch mode, easier to control HUD.
8. Automatic and manual brightness adjustment mode, driving without glare

DISPLAY FUNCTION:



1. Decorative light
2. Engine RPM
3. Speed
4. Speed unit (KM/H, MPH)
5. Multi-functional area 1 : Engine RPM, voltage, single driving distance (KM,Mile), single driving time (Minutes), water temperature
6. Unit for multi-functional area 1
7. Multi-functional area 2: fuel consumption, single driving distance (KM,Mile)
8. Unit for multi-functional area 2
9. Icon: setting, over speed alarm, fault code, light sensor, fatigue alarm, shifting reminding, water temperature alarm, low voltage alarm, buzzer mark



WHEN THE DIAL ON THE LEFT

1. Short pull up (when HUD is power on): Switch for instantaneous fuel consumption, fuel consumption for 100km, single driving distance (pls. note, after entering the setting menu, short pull up to increase the parameter)
2. Short pull down (when HUD is power on): after entering the setting menu, short pull down to decrease the parameter)
3. Vertical Short press (when HUD is power on): switch for engine RPM, water temperature, single driving distance and time (pls note: after entering the setting menu, vertical short press to increase the menu)
4. Long pull down: turns on or off the alarm sound.
5. Vertical long Press in 5 seconds: enter into setting menu, after the adjustment, vertical long press in 5 seconds to save it and exit.
6. Long pull up: Pull up the wave button 5 seconds to clear the engine fault code when HUD in normal state.

BUZZER ICON:

Pull down: pull down the wave button 5 seconds to turn off the buzzer, another 5 seconds to turn on the buzzer.

CLEARING ENGINE FAULT CODES:

Pull up the wave button 5 seconds to clear the engine fault code when HUD in normal state

RESET SETTING:

Long press in for 5 sec. to enter the setting menu, short press 14 times to find menu 14, adjust the default value from 0 to 1, then press for 5 sec. to keep and exit.

HUD INSTALLATION :

1. Know your vehicle brand, HUD work for cars with OBDII agreement or EU OBD agreement. Open the engine hood and find the sticker below it (see the below picture 1), if it has words like OBDII CERTIFIED, then it can be installed.
2. Find out the 16 pin diagnostic link (see the below picture 2) of the vehicle and connect it well with OBDII connecting line.



1

OBD II
CERTIFIED



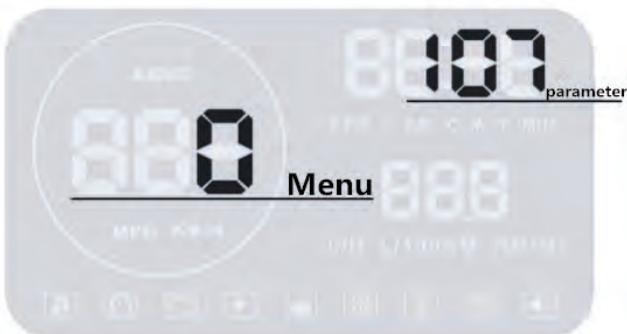
2

HUD SETTINGS:

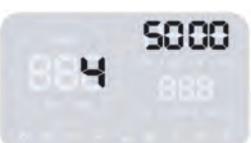
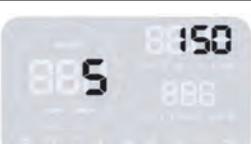
Car speedometer value has been adjusted high by car factory to make driving safe. Since HUD receiving data from ECU, thus HUD display is the accurate value. ECU calculated data will be a little different with car dashboard data. If you find HUD display value is not same as your dashboard, you can enter the menu setting to adjust HUD value, then HUD display information will be the same as your dashboard.

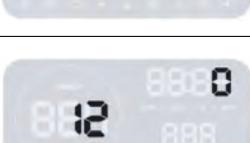
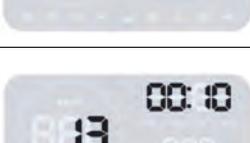
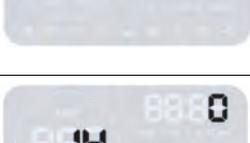
Vertically press in the wave button 5 seconds:

Enter into menu setting (there are 3 directions for wave button: up, vertical, down), vertical long press, enter the menu setting, vertical short press 1 time , menu options will increase 1 unit, up and down the wave button to increase or decrease the parameter value. After adjustment, vertical long press 5 seconds to return the previous interface.



3

Menu	According Parameters	Range Adjustment	Explanation	Default Values	Display State
0	Speed	50-150	When the Speed is not the same as dashboard: Up or down the wave button to adjust	107	
1	RPM	50-150	When RPM is not the same as dashboard: Up or down the wave button to adjust	117	
2	Fuel consumption	50-150	When fuel consumption is not the same as dashboard: Up or down the wave button to adjust	100	
3	Shifting reminding	1000 -7500	When RPM reaches 5000, HUD will give RPM alarm	5000	
4	RPM alarm	1000 -7500	When RPM reaches 5000, HUD will give RPM alarm	5000	
5	Over speed alarm	30-250	Over speed alarm shows up when the vehicle speed exceeds 150	150	
6	Display mode	0-2	0 display all information, 1 is only display speed, 2 display nothing	0	

7	Brightness adjustment	0-2	0 is automatic adjustment, 1 is the darkest by manual, 2 is brightest by manual	0	
8	Speed unit	1-2	1 is KM, 2 is MPH	2	
9	Water temperature unit	1-2	1 for °C, 2 for °F	2	
10	Mileage Unit	0-1	(switch between KM/Mile) 0 is single driving in KM, 1 is single driving in Mile	1	
11	Emission setting	0-100	The default car emission is 20(means 2.0L) ,if there is no display fuel consumption,pls adjust the default value to 0	20	
12	Reference start voltage	0-15.0	If HUD cannot power off, adjust to 13.2-14.0V	0	
13	Delayed shutdown	10-900	The default value for HUD shutdown time is 10 seconds,when the car is gas-electric hybrid and automatic start/stop system, you can delay the shutdown time(e.g. 130s)	10	
14	Reset setting	0-1	Adjust the parameter to 1,and vertical press in the wave button 5 seconds to save,then the reset is finished	0	

USE AND INSTALLATION FOR REFLECTION FILM:

Please Note: HUD projects dashboard information on the car front windscreen, because the windscreen is double, which will make double reflection on the windscreen when it works. The double reflection will be different cause of the different windscreen. If you can see clear of the displaying information, then there is no need to use the reflection film. If there is a double image, then please use the reflection film. First, please put the non-slip mat on the dashboard, and then put HUD on it. Reflection film can be stick to the position right above the HUD position which can reflect host screen to windscreen.

METHODS OF PASTING THE FILM:

1. Spray some water on the place that the film will be pasted on, and then use a dry cloth to clean it.
2. Take off the back side (marked 1) of reflection film, then paste it to the window glass.
3. After you have adjusted the location, you can use a scratch board or something else flat to slick the film and squeeze the water inside out until there is no bubble or water in it.
4. Take off the protection film (marked 2) of the reflection film. If the film cannot display the whole information, please adjust the non-slip mat to move the position.

TECHNICAL PARAMETERS:

Environment temperature:	- 40c- + 80c	atmospheric pressure	86-106KPa
Relative Humidity:	10% -95%	environmental noise	<= 60dB (A)
Alarm sound level:	"= 30dB (A)		
Working voltage:	9V ~ 16Vdc	(12Vdc / 400mA)	
HUD size:	12.5*7.5*1.5(cm)		
HUD Weight:	110 g		

SOLUTION FOR COMMON PROBLEMS

1. The screen without any display, and no electricity

Reason: Start the car engine; check if the OBD cable line is tight; please pull down the OBD cables repeatedly to ensure; check if HUD power switch turns on. If there's still no display, please try it to another car to test, analyze whether the car OBD diagnostic interface is good, if it is not good, please repair it and try again.

2. HUD only shows the car voltage and be automatic power off after 30 second when it under the condition with electricity while driving.

Reason: HUD just available for cars with OBD2 agreement and EU-OBD agreement (European region: after 03 years, Other region: after 07 years) HUD Products donnot support JOBD and OBDI and recommended test for another car.

3. See not clearly when HUD under the sunlight.

Check whether the HUD host surface protective film is torn, and please stick the reflection film in the gift box corresponding on the winscreen. Or vertical press in 5 seconds to enter into menu setting when HUD is power on, short press 7 times to 7 menu 7, adjust the parameter to 2, vertical press in 5 seconds to save.

4. Wrong operation lead to crashes. Or inaccurate datas

Do a reset setting.

5. Inaccurate Speed

a. First check the speed unit is correct or not, the speed unit including KM/H and MPH, short press in the wave button to switch between KM/H and MPH

b. When HUD is power on, vertical press the wave button 5 seconds to enter into the menu options, here menu option shows 0, parameter shows 107, up or down the wave button to increase or decrease the value according to the difference until it shows correct one. After adjustment, vertical press in 5 seconds to save it.

6. Inaccurate RPM

When HUD is power on, vertical press the wave button 5 seconds to enter into the menu 1, parameter shows 117, up or down the wave button to increase or decrease the value to 100. After adjustment, vertical press in 5 seconds to save it.

7. Inaccurate fuel consumption

The unit for fuel consumption is L/100Miles, HUD display is the single driving fuel consumption, while car display is Integrated average driving fuel consumption, so it is normal if there are difference.

HUD display three kinds of fuel consumption

a. **Idle mode:** HUD display Instantaneous fuel consumption per hour (L/H), it means HUD can figure out how much oil the car will consumed after start engine in one hour.

b. Driving mode: HUD display Instantaneous fuel consumption of 100Miles

c. Finish driving: HUD display is average fuel consumption of 100Miles, when turn off the car, HUD will auto turn off in 10s. Under the condition with power, vertical press the wave button 5 seconds to enter into menu option, show press in 11 times to find menu 11, the default value is 20 (means the emission is 2.0L), up or down the wave button to increase or decrease the value according to the difference with your car emission until it shows correct. Vertical press in 5 seconds to save and exit. Or find menu 2 , the parameter shows 100, up or down to adjust.

8. Over speed alarm

HUD default over speed alarm value is 150, it can be adjusted. Under the condition with power, vertical press in the wave button 5 seconds to enter into menu option, short press 5 time to menu 5, parameter 150, here 150 means over when driving speed reach 150, hud will give over speed alarm, up or down the wave button to increase or decrease the value. Vertical press in 5 seconds to save after adjustment.

9. How can see the average fuel consumption of 100Miles?

When car turn off, HUD display is average fuel consumption of 100Miles.

10. HUD cannot be automatically power on

Vertical press in 5 seconds to enter into menu setting, short press 12 times to menu 12, the default value is 0, up or down to adjust the default value to 12.8 V, vertical press in 5 seconds to save and exit.

11. HUD cannot be automatically power off in cars with Start Stop function

Vertical short press the wave button 5 seconds to enter into menu setting, vertical short press 12 times to menu 12, the default parameter is 0, up or down the wave button to adjust the default value to 13.2V

12. When HUD power off, it re-start again

Vertical press in 5 seconds to enter into menu setting, short press 12 times to menu 12, the default parameter is 0, up or down change it to 13.8V, vertical press in 5 seconds to save and exit.

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