HEAD UP DISPLAY

OBD2 HEAD UP DISPLAY USER MANUAL

CODEBREAKER
ENGINE DIAGNOSTICS

HUD, short for Head Up display is a driver's aid designed to reduce distraction by displaying vehicle speed information in the driver's field of view so that they can keep their eyes on the road.

COMPONENTS

• Head up display unit
• OBD2 connection cable
• Windscreen reflective film
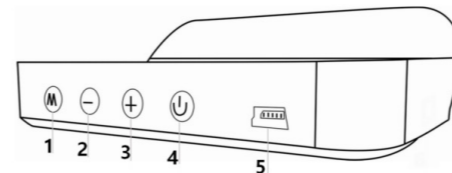• Dashboard adhesive tape
• User Manual

FITTING

1. Place the HUD in the desired location on the dashboard surface.
2. Connect the OBD2 cable to the DLC port (usually under dash beneath the steering column and route to the HUD.
3. Turn on the ignition to power the HUD and check the position of the image projected on the screen is aligned with drivers view.
4. Clean the windscreen and apply reflective film.
5. Mount HUD permanently with adhesive tape.

1. Multi Function Display: Speed, Water temperature, Voltage

2. Engine icon, Water temperature icon

3. Voltage icon, Fatigue driving icon

4. Light sensor: HUD unit automatically adjusts the brightness accordingly to the environment

5. Speed Unit: MPH - miles per hour , Km/H - kilometres per hour

Short Press = 1 second,   Long Press = 5 seconds

1. Short Press M

To switch the display between voltage, water temperature & vehicle speed.

Long Press M

To enter the setting menu (see table for details) and to save and exit.

2. Short Press − **or** +

To adjust the menu number or parameter value.

3. Long Press + **or** −

To turn the buzzer on or off (default is on).

Long Press +

Press and hold until the entire screen is on to eliminate fault codes. Long press again to exit.

4. Power Switch

Long press to turn off, again to turn on in .

5. OBD Connection Port

Attach OBD-DLC cable to connection port to power the HUD.

SETTINGS

To enter the setting menu:

Long press M to enter setting menu,

Short press − to choose menu,

Short press M to confirm,

Long press M after adjustment to save and exit

MENU	FUNCTION	RANGE ADJUST	DESCRIPTION	DEFAULT SCREEN
1	Speed	50-150	Adjust the parameter value to match the vehicle speedometer value or a corrected GPS value	107
2	RPM Alarm	10-75	Default alarm is set to 7500 RPM. Adjust as required	75
3	Over speed alarm	30-250	Default over speed alarm is 150KM/H. Adjust as required	150
4	Water temp. alarm	50-150	Default high water temperature alarm is 120°C. Adjust as required	120
5	Voltage alarm	0-15.0	Default low voltage alarm is 10V. Adjust as required	10.0
6	Fatigue Driving Reminder	1.0-8.0	Default fatigue driving reminder is 4 hours. Adjust as required	4.0
7	Brightness level	0-11	0-automatic photosensitive mode 1-11 is manual adjustment	0

CONTACT US

SETTINGS cont.

SETTINGS cont.

FAQ

FAQ cont.

WARRANTY

For more information on installation, operation, or any other general enquiries, please don't hesitate to contact us at:

+61 3 8740 1170

www.ultimate9.co

sales@ultimate9.co

facebook.com/ultimate9

@ultimate9_

Factory A, 28A
Kalman Drive
Boronia, 3155, VIC
Australia

Copyright Ultimate9® © 2022

MENU	FUNCTION	RANGE ADJUST	DESCRIPTION	DEFAULT SCREEN
8	Speed unit	0-1	0=KM 1=MPH	0
9	Water temp. unit	0-1	0=°C 1=°F	0
10	Turn-off Voltage	0-15.0	If HUD cannot auto turn off, set the voltage at 13.2V. If your car is hybrid electric or has a start-stop system, set the value to 1V	0
11	Turn off time	5-300	The default shut down time is 20s. Adjust as required	20
12	Factory reset	0-1	The default value is 0. After adjusting to 1, long press 'M' key for 3s to save and exit.	0

Restore settings:

Method one - Unplug the power supply, press and hold (M), plug into power supply and wait until all LED lights light up/turn on.

Method two: Long press (M) to enter into setting menu and adjust the value from 0 to 1 in Menu 12. Long press again to save and exit.

Fault code clearance:

Long press (M) and hold until all LEDs light up, long press again to exit.

If your vehicle has Automatic start/stop system or is a hybrid electric vehicle.

Long press (M) to enter into setting mode and adjust the Turn-off Voltage to 1 in Menu 10. Long press again to save and exit.

Please note:

If the vehicle is not driven for long periods ie. more than a week, it is recommended to disconnect the HUD in order to preserve the vehicle's battery power.

1. The screen does not turn on or does not seem to have power

Make sure the OBD plug is plugged in correctly, unplug and re-plug to make sure the connection is not loose. Try another vehicle to see if same problem persists, if it does this might be a faulty unit or faulty cable, please contact your place of purchase or contact Ultimate9.

2. When HUD powers on, it only shows the vehicle voltage and powers off after 30 seconds of driving

The OBD HUD is only compatible for cars with OBD2 and EOBD type ECUs (European: manufactured after 2003, Other region: after 2007). JOBD and OBDI are not supported. For these vehicles, you will need to purchase the hardwired GPS HUD unit.

3. Inaccurate speed

Most manufacturers will have speedometers that are on average 3-6km/h slower than what's shown on the dash when driving over 100km/h. To insure the GPS Speed showing on the HUD is correct you can download a GPS speed app on your smartphone or use Google maps navigation which will show a more

realistic GPS Speed for comparison.
If you find that the GPS speed value differs to what's shown on your smartphone, go to Menu 1 and adjust the parameters until you are satisfied with the reading.

5. Vehicles with automatic start/stop system and hybrid electric vehicles

As the car stops at the traffic lights, the engine may stop running. The HUD will shut down after 20 seconds. To fix this, the 'turn off' voltage can be adjusted to 1V in Menu 10.

6. HUD not powering off (RPM or Speed not at 0)

When turned on, long press the button 'M' to enter the menu, set the voltage from 0 to 13.2V or 13.5V in Menu 10. The unit will turn off after 3 minutes.

7. HUD automatically restarts

This indicates that the vehicle voltage is higher than the HUD starting voltage of 13.2V, to correct this, set the voltage to 13.6-13.8V in Menu 10. The unit will automatically turn on when voltage is higher than 13.2V.