



OBD-II CAR HEAD UP DISPLAY

KAH80BDA

SAFETY & WARNINGS

Read all instructions in this guide before using this product. Retain this guide for future reference. Do not skip, substitute or modify any steps or procedures in this guide, as doing so could result in personal injury or product damage.

This product is **NOT** compatible with the following vehicles:

European cars	American cars	French cars
Build date before 2004	Dodge, Jeep, Ford, GM & Chrysler with build date before 2004	Peugeot, Citroen & Renault not supported
Japanese cars	Korean cars	Chinese cars
Suzuki, Mazda, Toyota & Honda with build date before 2008	Some Kia & Hyundai models built before 2007	Build date before 2008
The following vehicles are also NOT compatible		
Nissan Rouge 2014	Toyota Alitis 2016	Pontiac Bonneville 2005
Nissan Frontier 2012	Toyota Fortuner 2014	Pontiac Grand Prix 2006
Nissan Altima 2005	Chevrolet Silverado '04-05	Ford Mustang 2004
Nissan Sunny N17 2012	Chevrolet Trailblazer 2006	Ford Galaxy 2005
Nissan Note 2006	Chevrolet Vivant 2007	Ford Taurus 2003
Nissan Murano 2007	Perodua Alza	Nissan Altima 2005
Nissan Livine 2008	Perodua Viva	Mitsubishi Outlander 2013
Nissan G11 2009	Perodua Myvi Agibeast 2012	Mitsubishi 2016
Honda HRV 2016	BMW X5 Diesel 2013	Rainier 2005
Honda CRV 2016	Chrysler Town & Country '07	Jaguar XF 2011
Honda CRV 2008	Lincoln Towncar 2003	Hyundai Sonata 2013
Honda Jazz 2010	Renault Clio 2 Phase	Hyundai i20 2012
Honda Jazz 2014	Volvo XC60 2005	Hyundai Santa Fe 2013
Honda V6 2010	Toyota Alitis 2016	Skoda Fabia 2009
Honda Element 2010	Toyota Fortuner 2014	Grand Marquis 2004
Toyota Hilux Vigo 2015	Kia Morning 2008	Toyota Camry Hybrid '16
Toyota Porte 2009	Dodge Neon SRT-4 2004	Toyota Prius 2012

COMPONENTS



Head up display (HUD)



OBD-II cable



Non-slip mat

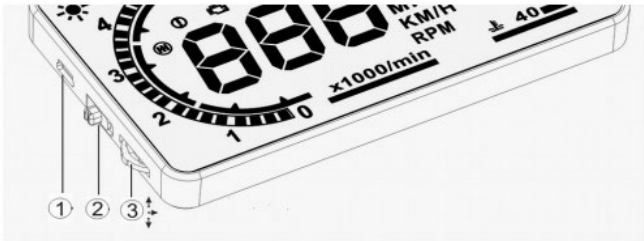


Reflective film



User guide

OVERVIEW



- 1 OBD-II Input
- 2 Power Switch
- 3 Input button

Display (as viewed on windscreen)

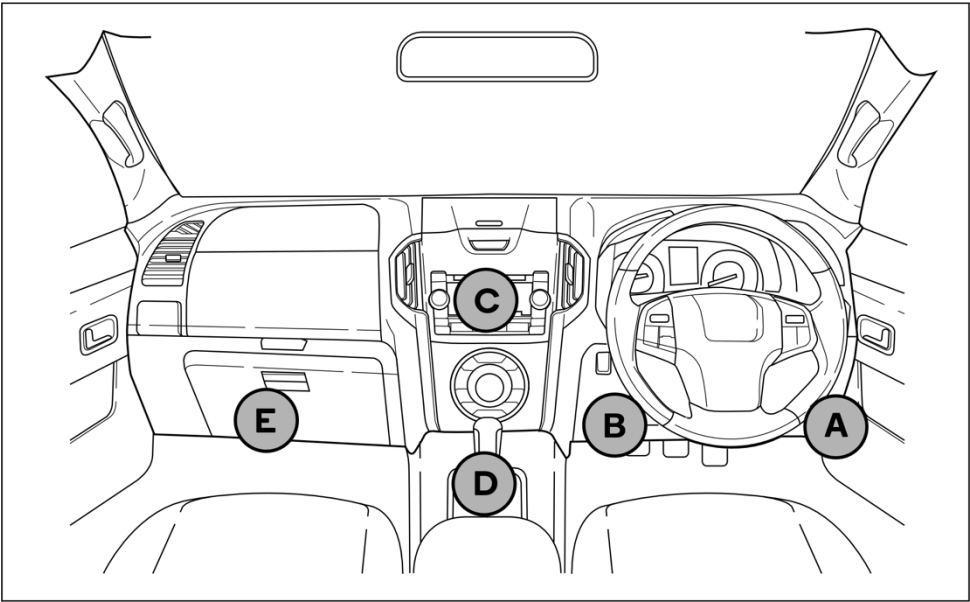


1. **Light sensor:** Changes the unit's display brightness to suit the constantly changing environment whilst driving.
2. **Tachometer:** Indicates the speed of the engine.
3. **Alarm panel:** From left to right- Shift reminder, over speed alarm, engine fault, fatigued driver reminder, buzzer.
4. **Speed:** Vehicle speed.
5. **Revolution speed units:** indicating the units of rotational speed
6. **Unit mark:**
 - KM/H = Kilometres/hour
 - MPH = Miles/hour
 - RPM = rotations per minute
7. **Engine temperature:** Current engine temperature
8. **Secondary Alarm icon panel:** From left to right, Engine temperature alarm, battery voltage alarm, over speed alarm
9. **Unit mark:** Left to right top to bottom Degrees (Celsius or Fahrenheit)
 - KM = Kilometres
 - V = Voltage
 - M = Miles
10. **Multifunction display window:** Voltage, Mileage, Water temperature.
11. **Fuel consumption unit mark:**
 - L/100km = Litres/100 kilometres,
 - L/H = Litre/hour
12. **Fuel consumption display:** Fuel consumption with adjustable units of measurement as above.
13. **Fuel consumption icon**

INSTALLATION

Locating your vehicles ODB-II port

Use the guide below to locate your vehicle’s ODB-II port. Some vehicle’s port may be located in other locations not listed below. Always refer to your vehicle’s owner’s manual to confirm where the ODB-II port is located.



Location	Vehicle
A	GM, Volkswagen, BMW, Ford, Toyota, Hyundai, Citroen and most vehicles.
B	Volkswagen Touran, Lexus and other models
C	Citreon and other less common models
D	Citreon and other less common models
E	Geely GX7, Geely Vision SUV and other rare models

Before First Use

1. Place the non-slip mat on the driver's side corner of the dashboard and then place the head up display (HUD) on it.
2. Ensure vehicle is ODB-II or EUOBD compatible and connect the supplied cable to the 16-pin connector (usually under the steering wheel, consult vehicle's user manual if unsure).
3. Connect the cable to the ODB-II input on the unit.
4. Place the power switch in the on position.

Note: Once the HUD's switch has placed in the on position, it is designed to automatically power on and off with the vehicle's accessory power.

5. Start the engine and the HUD will power on.
6. Allow 1 minute for software to sync and display voltage, fuel consumption, RPM, etc.

Reflective Film

The HUD projects information up onto the windscreen. Due to the construction of your windscreen, the HUD may create a double reflection on the windscreen, which will make it difficult to read. If this occurs, install the reflective film.

1. Spray some water onto the inside of your windscreen above where the HUD is installed. Clean the area with a dry cloth.
2. Remove the backside (marked '1') of the film and apply to the windscreen.
3. Ensure the film is installed in the correct location and adjust if necessary.
4. Use a flat plastic object (a credit card for example) to squeeze out any water or bubbles from behind the reflective film.
5. Remove the protective film (marked '2').
6. If the reflective film isn't positioned to display all the vehicle information, adjust the position of the HUD and non-slip mat until it is correctly aligned.

OPERATION

HUD Buttons

Power switch:

Power ON and OFF. ON is towards the ODB-II input, OFF is towards the Input button.

Input button:

The Input button is a three-way button used to navigate the HUD's menu and adjust the settings.

- **Up:** push the button towards the windscreen
- **Ok:** press the button inwards
- **Down:** pull the button towards the driver

Using the input button

Press and hold the input button for 5 seconds to enter the menu. When finished adjusting the settings, press and hold the input button for 5 seconds to save changes and exit.

- **Up:** increases setting value
- **Down:** decrease setting value
- **Down and hold:** turn alarm tone on or off
- **OK:** short press to change menu selection

Reset setting

Long pull up and hold. When all LEDs are illuminated, the HUD has restored factory settings.

Settings menu

A vehicle's instrument cluster has an offset value meaning the value displayed on the factory instrument cluster is slightly higher than that computed by the vehicle. This offset value is different for different vehicle manufacturers. As a result, the following table is included from a large range of test data. If you find the value on your dashboard is different to the value displayed by the HUD, you can change it through the following procedure.

Menu	Parameter	Adjustment range	Explanation	Default
0	Speed	50-150	50% - %150	102
1	RPM	50-150	50% - %150	117
2	Fuel Consumption	50-150	50% - %150	100
3	RPM Alarm	10-75	1000 - 7500 r.	50
4	Shift Reminder	1-75	1000 - 7500 r.	45
5	Single/Four Stage Alarm	0-1	0: Manual mode; 1: Four-stage alarm value (60, 80,100, 120km/h)	0
6	Single Stage Alarm	30-250	Setting range is 30km/h - 250km/h.	112
7	Display Mode	0-4	0: Automatic mode, all speed under 80km/h; high-speed mode above 80km/h	1
			1: All information	
			2: High-speed mode, only display speed and fuel consumption	
			3: Use voltage to control power on/off HUD (only use for petrol-electric hybrid)	
			4: Reserved options, don't set to 4	
8	Brightness Adjustment	0-2	0: automatic adjustment; 1: Darkest; 2: Brightest	0
9	Fuel Consumption Unit	0-2	0: No display; 1: L/H; 2: L/100km	2

10	Speed Unit	0-2	0: RPM; 1: KM/H; 2: MPH	1
11	Water Temperature Unit	0-2	0: Display water temperature; 1: °C; 2: °F	1
12	Distance Unit	0-1	0: Kilometres; 1: Miles	0
13	Reference Fuel Consumption	10-500	Vehicle fuel consumption	80
14	Air Displacement Setting	0-100	0: Vehicle has airflow meter; 1: The reference fuel consumption x = 0.xL (ie, 2, 3... 100 = emission is 0.2L, 0.3L... 10L)	16
15	Start Reference Voltage	110-150	This is the auto power on and off voltage for the HUD: no need to set	132
16	Restore to Factory Settings	0-1	Set to 1, vertically press the 'OK' button for 5 seconds, then return to display interface	0

SPECIFICATIONS

Operating temperature	-40 - 80°C
Working voltage	9V~16Vdc (12Vdc/400mA)
Relative Humidity	10%-95%
Alarm sound level	>=30dB(A)
Barometric pressure	86-106KPa
Environment sound	<=60dB
HUD size	125x75x15mm
HUD weight	110g



TROUBLESHOOTING

Issue	Possible cause	Steps to resolve
No speed display	The setting value is too high or the function is disabled	Change alarm stages
No RPM display	The setting value is too high or the function is closed	Reset the unit and open the switch of alarm
No display after starting	Power supply issue; Start reference voltage incorrect	Check power supply; Adjust start reference voltage
Fuel consumption inaccurate	No air flow sensor	Reset and recalibrate
No speed/engine speed display	Not compatible with ODB-II or EU-OBd port	Contact your vehicle manufacturer
No mileage display	No settings for fuel and fuel consumption calibration	Switch to manual to input fuel and adjust fuel consumption
Speed inaccurate	Incorrect distance unit or incorrect speed setting	Switch distance unit setting or adjust speed setting
Only speed and fuel displayed	Speed exceeds 80 KM/H	Enter settings and switch display mode to 1
HUD not visible in sunlight	Reflective film faulty or brightness setting incorrect	Inspect physical condition of reflective film; Adjust brightness setting; Change display mode to view on HUD

NOTES

[illegible]

[illegible]

Need more information?

We hope that this user guide has given you the assistance needed for a simple set-up.

For the most up-to-date guide for your product, as well as any additional assistance you may require, head online to **help.kogan.com**

kogan.com