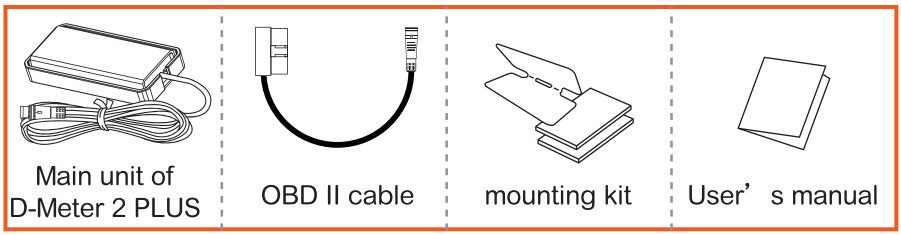
D-METER 2 PLUS
OBDII MULTIFUNCTION DISPLAY

Ver.0.0.1

SW10171

CONTENTS

Only for reference, it might be different from real parts.



● Please attach the user’ s manual to the product when transferring to others.

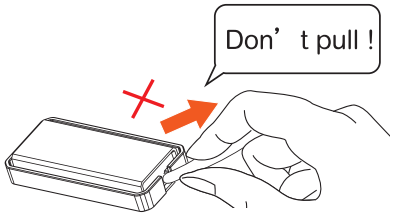
FEATURES

The D-Meter 2 PLUS multifunction display uses CANBUS communication technology, compatible with modern vehicles, reading OBD II data to display driving information. The slim body features an OLED display and seven-color lighting effects, showcasing exceptional craftsmanship.

- Features seven-color ambient lighting with five levels of adjustable brightness. Lighting responds to vehicle status, enhancing the overall driving experience.
- Power-off memory requires only initial setup and will automatically recall the last-used mode thereafter.
- Supports customization of warning thresholds for 9 different vehicle parameters.
- Equipped with an OLED display, ensuring clear readability without light interference during driving.
- Customizable interface allows simultaneous display of two types of information.
- Supports both left-hand and right-hand driving modes to accommodate user preferences.
- Units can be switched based on user habits (e.g., Bar/PSI, ° C/° F).
- Red warning light and audible alert notify the driver when a preset threshold is reached.
- Discreet hidden-button design enables intuitive and user-friendly operation.
- Capable of monitoring over 10 types of vehicle data, including Turbo Boost, AFR, Trans Temp, Mileage, and more.

IMPORTANT

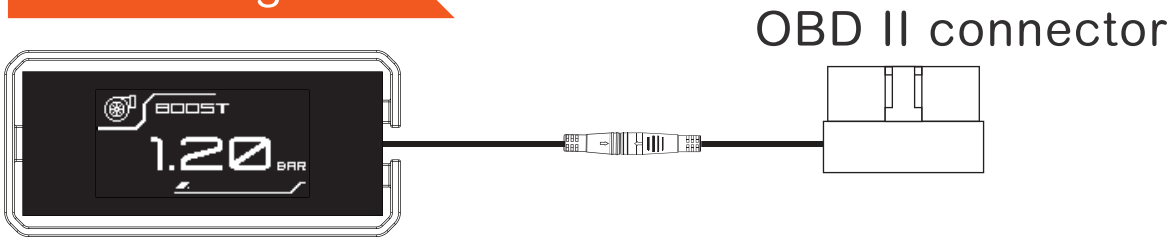
⚠ WARNING!	Do NOT pull the wire for safety.



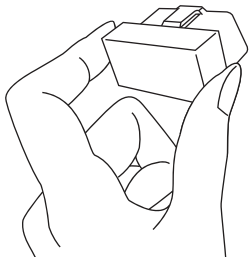
- Please read the instruction manual thoroughly before installing the D-Meter 2 PLUS.
- Please perform the initial setup during the first installation.
- Do not operate this product while driving, as it may cause accidents due to driver distraction. Always drive safely and use the device with caution.
- If you encounter installation issues or are unfamiliar with the process, please consult a professional installer.
- This product uses the SAE J1979 communication protocol and is recommended for vehicles manufactured after 2014.
- Compatible with 12V gasoline and diesel vehicles only. Do not install on 24V commercial trucks.
- The included double-sided tape is very strong. If repositioning is necessary, carefully peel it off to avoid damaging the device.
- Do not modify, disassemble, or tamper with this product without prior authorization.

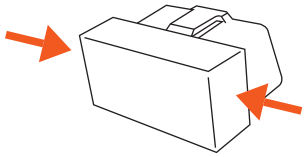
INSTALLATION INSTRUCTION

Basic Wiring



Power Connecting

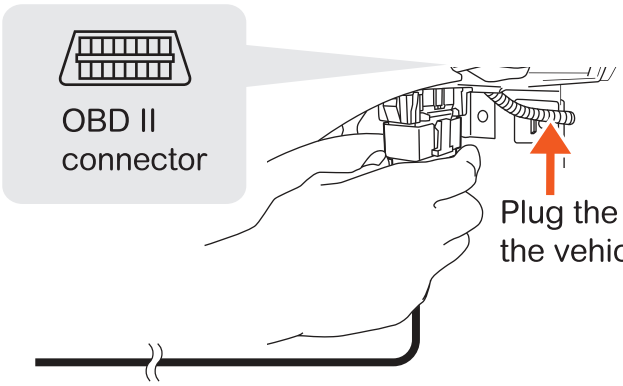




- Please hold the connector housing firmly when plugging in or unplugging.

Attention!

Do not pull the cable when disconnecting the connector.

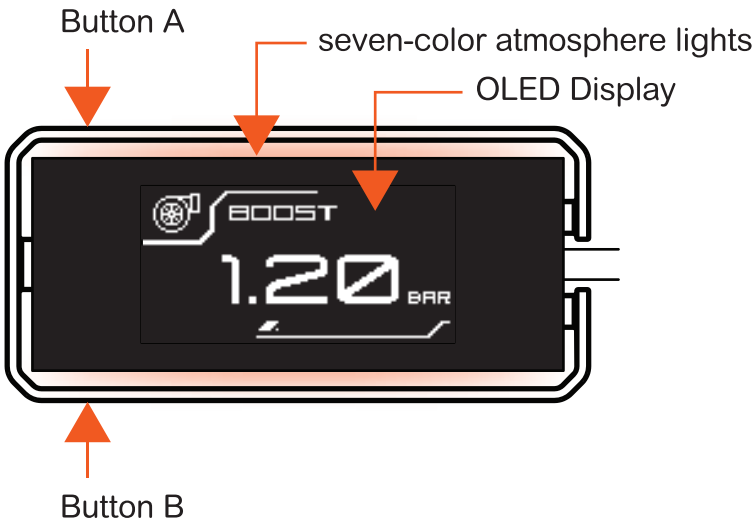


Plug the connector directly into the vehicle's OBD II port.

OPERATION INSTRUCTION

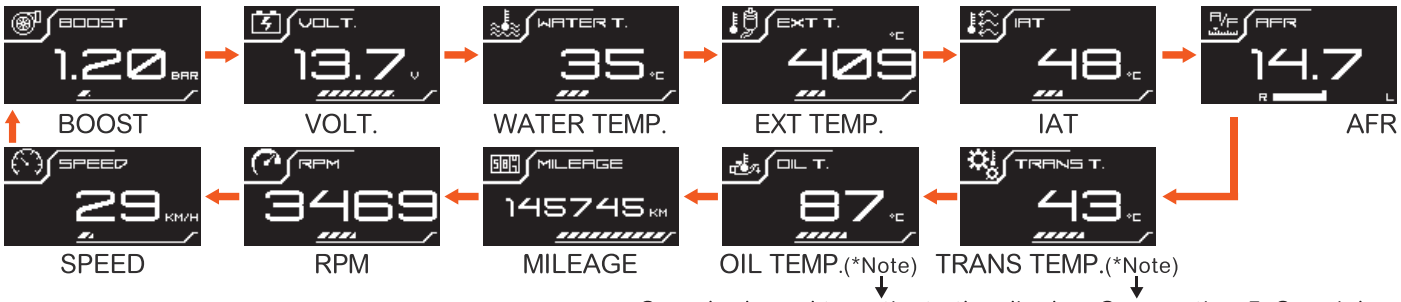
This product has internal buttons and supports two installation methods:
1. Direct Stick-On: Attach double-sided tape to the back and stick it to the dashboard.
2. With Bracket: Apply tape between the bracket and the device.

After mounting, operate by toggling the aluminum frame — up for Button A, down for Button B.



1. Single Mode Switching

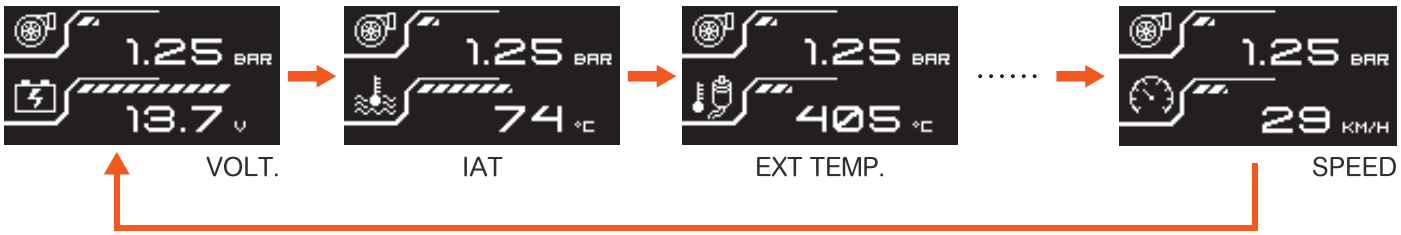
Short press Button A to cycle through the display options.



Scan by brand to activate the display. See section 5: Special Information for OBD2 Scan for details.

2.Dual mode switching

After selecting the first parameter, short press Button B to select a second parameter. Two values will then be displayed simultaneously.



Short press Button B to switch the second value (in the same sequence as in single mode).

3.Basic settings

Long press Button A to enter the settings menu. In the settings page, if no button is pressed, the screen will automatically return to the previous menu after 4 seconds.

Warning Value Setting

(For details, please see the next page, section 4.)

OBD II Scan

(For details, please see the next page, section 5.)

Light Color

RGB / ARGB / O=Orange / G=Green / B=Blue / C=Cyan-blue / P=Purple

Brightness

Five brightness levels: 0%, 25%, 50%, 75%, 100%

Hand Side

Adjustable display direction for easier installation and better usability.

Unit

Units can be adjusted based on user preference.

Mileage

Manually input the mileage.

Calibration Speed

If there is a discrepancy between actual and displayed speed, percentage adjustments can be made here.

ACC

*AUTO (Default): Automatically detects the power on/off signal.
*AUTO 48V: Designed for start-stop systems and 48V mild hybrid vehicles; continues operating even during engine-off coasting.
*MANUAL: Allows users to set custom voltage ranges for power on/off, and optionally shut down the device when RPM reaches zero.

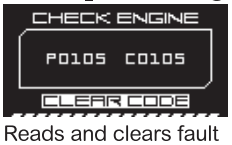
Restore Default

When used in another vehicle, the device must be reset to restore factory settings.

Vesion

Check the version number and manufacturer’ s website.

Check Engine



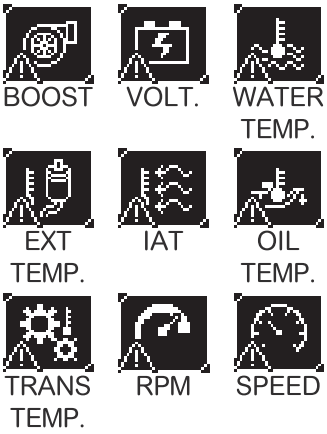
Reads and clears fault codes. (Recommended to use when the vehicle is turned ON.)

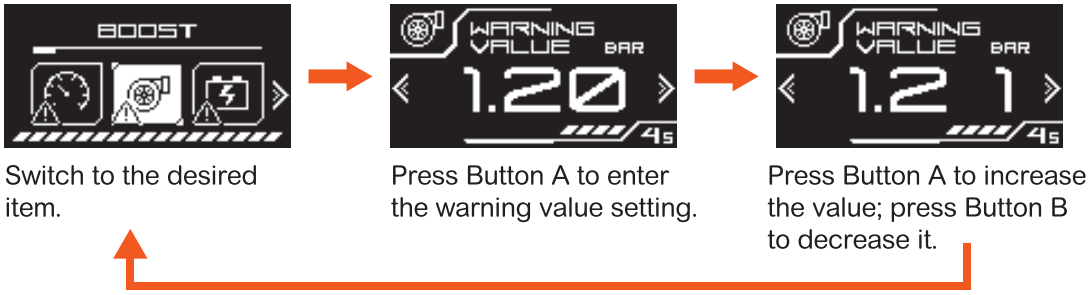
Master/Slave

When installing two units, a master-slave configuration must be set.
*Set one as MASTER.
*The other as SLAVE.

4.Warning value setting

The following 9 parameters support customizable alert thresholds:





Switch to the desired item.

Press Button A to enter the warning value setting.

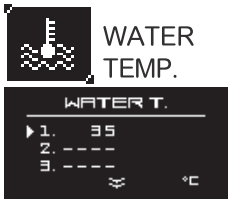
Press Button A to increase the value; press Button B to decrease it.

After 4 seconds of inactivity, the setting will be saved and the system will return to the previous screen.

5.OBD2 Scan

Standard Information

AFR, Water Temp. → Default: Channel 1
These parameters are supported on most vehicles. Some models may require switching signal sources.



*Please select the channel where the values respond in real time when the accelerator is pressed.
*Not supported on diesel vehicles.

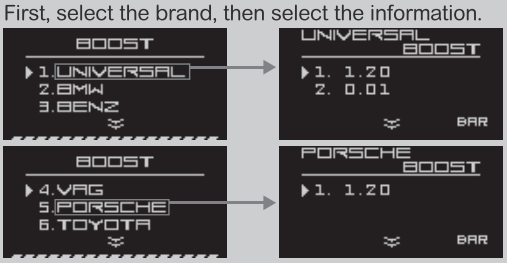
Special Information

Default UNIVERSAL: Turbo, IAT, EXT Temp.

Default: OFF (*Note): Transmission temperature and oil temperature require brand-specific scanning. These values must be selected after scanning before they can be displayed.

Example (Turbo):

First, select the brand, then select the information.



*Displayed data depends on your vehicle’ s ECU.
*Each function supports one PID selection. If no data is available, the function can be hidden.
*Some vehicles do not support displaying values such as air-fuel ratio, transmission temperature, oil temperature, or turbo pressure.

PRODUCT SETTING CORRESPONDENCE LIST

	Default warning value		Setting range		Default unit
BOOST	>1.5bar	>21.7PSI	OFF~3.0Bar	OFF~43PSI	Bar
VOLT.	<11.0V		8~18V		V
WATER TEMP.	>105°C	>221°F	OFF~120°C	OFF~248°F	°C
EXT TEMP.	>950°C	>1742°F	OFF~1100°C	OFF~2012°F	°C
OIL TEMP.	>120°C	>248°F	OFF~140°C	OFF~284°F	°C
IAT.	>75°C	>167°F	OFF~140°C	OFF~284°F	°C
AFR					
TRANS TEMP.	>115°C	>239°F	OFF~140°C	OFF~284°F	°C
MILEAGE					KM
RPM	>7000RPM		500~9990RPM		RPM
SPEED	OFF		OFF~400KM	OFF~248MPH	KM

Troubleshooting

When you think the machine is faulty, please confirm the following items before sending it for repair:

Problems	WHY	Confirm items
No data is shown after engine starts.	1. Poor OBD II connector contact. 2. Vehicle does not support CANBUS.	Check vehicle year/model compatibility and whether OBD II connection is secure.
Shows "---" or no response when turning on.	No signal received, possibly due to unsupported PID or no data output from ECU.	If it shows “---”, it means the ECU does not output data for that item.
The screen displays other indicator lights flashing continuously.	The warning function is triggered.	1.Switch to the mode corresponding to the flashing light, and check for any abnormal data. 2.Increase the warning threshold or set it to the minimum (OFF) to disable the alert.
After the engine is turned off, the device does not shut down simultaneously.	After engine shutdown, the ECU does not immediately stop communication, so a delay is needed before the device turns off.	If the device fails to shut down in AUTO mode, please go to “ACC” and adjust the shutdown conditions.
After the engine starts, the device does not power on at the same time.	The OBD II display requires specific startup conditions to be met, so it may not activate simultaneously with engine ignition.	This is normal, don't worry! If the device remains off for an extended period, please check the “ACC” settings.
AFR or exhaust temperature cannot be read.	The values may not be displayed or may be incorrect due to the factory default settings not supporting the relevant PIDs, resulting in no data shown on the OBD II display.	Check the data through the AFR and exhaust temperature channels. If the values all show “---”, the vehicle likely does not support these readings.
Turbo pressure reading does not match actual condition.	The OBD II display shows pressure values based on the data returned from the ECU. Therefore, it is necessary to check whether the vehicle’s software or hardware has been modified or replaced.	1.Actual boost pressure may exceed the OBDII system's readable range. 2.The ECU may have been upgraded or tuned, causing the OBDII to show lower-than-actual boost pressure.
Some values cannot be displayed (e.g., oil temp, trans temp, etc.)	After OBD2 is standardized, each Parameter IDs (PIDs) has a corresponding position. The value cannot be displayed may be that the PIDs and components are not used in the original factory setting, so the value of the OBD2 display cannot be displayed.	Oil temperature and trans temp are preset to OFF. Please enter the “OBD II Scan” mode, select the correct brand and model, and check if data is available for display.
Displayed speed does not match dashboard or GPS readings.	Factory vehicles are calibrated according to vehicle safety inspection standards, and the speed shown on the dashboard is usually slightly higher than the actual speed.	If a discrepancy is caused by the vehicle itself or changes in tire size, you can use the “Speed Calibration” function to make adjustments.

When the product needs to be repaired, please collect the product body and accessories and return them to the original place of purchase.

www.shadowmotor.com.tw

Address: NO.163 Fan-Hwa Road, Chin-Hsin Village, Hsiu-Shui, Chang Hwa, TAIWAN
Tel: +886-4-7681140 Fax: +886-4-7698587 E-mail: info@autojaw.com

AUTO JAW Co.,Ltd