DIGITAL METER II

CONTENTS

The following pictures may be different from reality, they are just only for the reference.

Main unit of D-Meter 2 | Cable of D-Meter 2 | Double sided tape | User's Manual
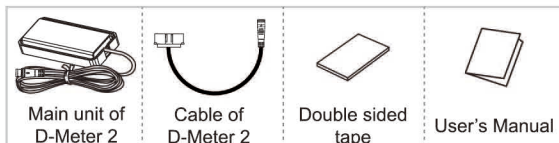
● Please attach the user's manual to the product when transferring to others.

FEATURES

• It has seven-color atmosphere lights and four-stage adjustable brightness. The lights change according to vehicle conditions. Make your driving experience full of senses.

• The power-off memory function only needs to be set at the first use, and then automatically memorizes the last use mode.

• Nine kinds of information warning values can be set according to user needs.

• Adopt OLED display. The driver can view the values while driving without the interference of light.

• Set the display interface by yourself. It can display two kinds of information at the same time.

• Left and right driving modes can be switched to suit each user's operating habits.

• Units can be adjusted according to user habits. (Example: Bar/PSI, °C/°F)

• The red light will flash and an audible sound will alert the driver when the warning value is reached.

• Simple hidden button design, users can intuitively operate the product.

• Monitor 10 kinds of vehicle information, including turbo, air-fuel ratio, gearbox, speed, mileage, etc.

IMPORTANT

⚠ WARNING! | Do NOT pull the wire for safety.

Don't pull !

• Please read the instruction manual carefully before installing the D-Meter 2.

• Please perform the initial setup during the first installation.

• Operating this product while driving may cause a car accident happened due to distracted driving. Please make sure to drive safely and use it with care.

• If there is any installation problem or unfamiliar situation, please entrust professional store to install.

• After installation, do not apply excessive force to the product. Items fixed and pasted with double-sided tape are easy to fall off when they are just installed, please be careful.

• Double-sided tape is very strong. If you need to reposition it, please carefully peel it off to avoid damaging the device.

• Do not modify, disassemble, or alter this product without permission.

INSTALLATION INSTRUCTION

Basic wiring

OBD II connector

Computer diagnostic connector
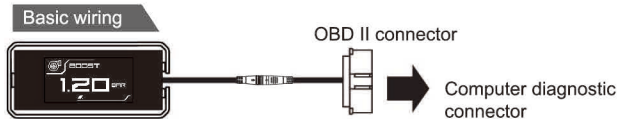
Notes of installation OBDII connector
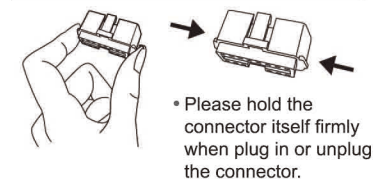
⚠ Attention!
Please make sure not to hold the cable when unplug the connector which might break or crack from the cable.

• Please hold the connector itself firmly when plug in or unplug the connector.

Power Connecting

※Please fasten the product and wire well, if they are fallen off is very dangerous during driving.
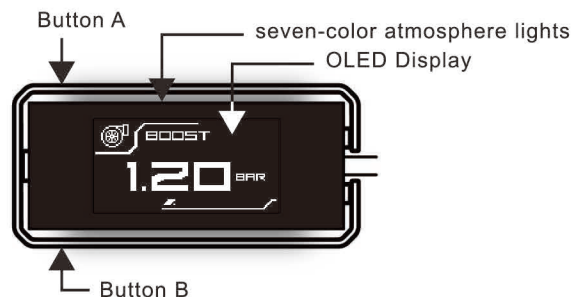
OBD2 connector

[Initial Installation Process]
1.Insert OBD2 while the engine is off; the D-Meter2 screen will light up.
2.Only start the engine after the screen has turned off.

Plug into the OBD2 connector

*If D-Meter2 has been installed in the vehicle, the system will save the vehicle settings.
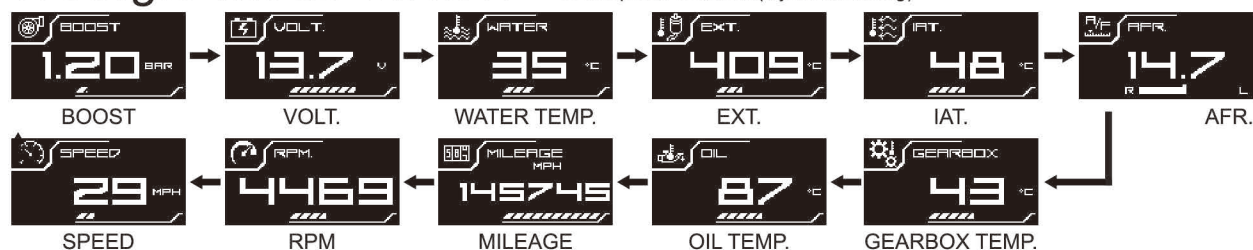When OBD2 is changed to another vehicle, a reset is required.

*If you do not follow the first installation process, some vehicles may display incomplete information.
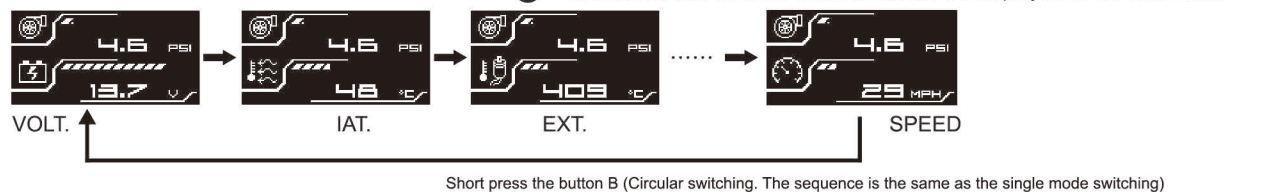Even the canbus signal is interrupted and causes shutdown.

OPERATION INSTRUCTION

The buttons are inside the product, so you can choose two fixing methods during installation.
1.Apply the double-sided tape directly to the back of the product and then it can be operated through the aluminum frame.
2.Paste the double-sided tape under the metal frame.After finish pasting, you can use the plastic body to operate the product.
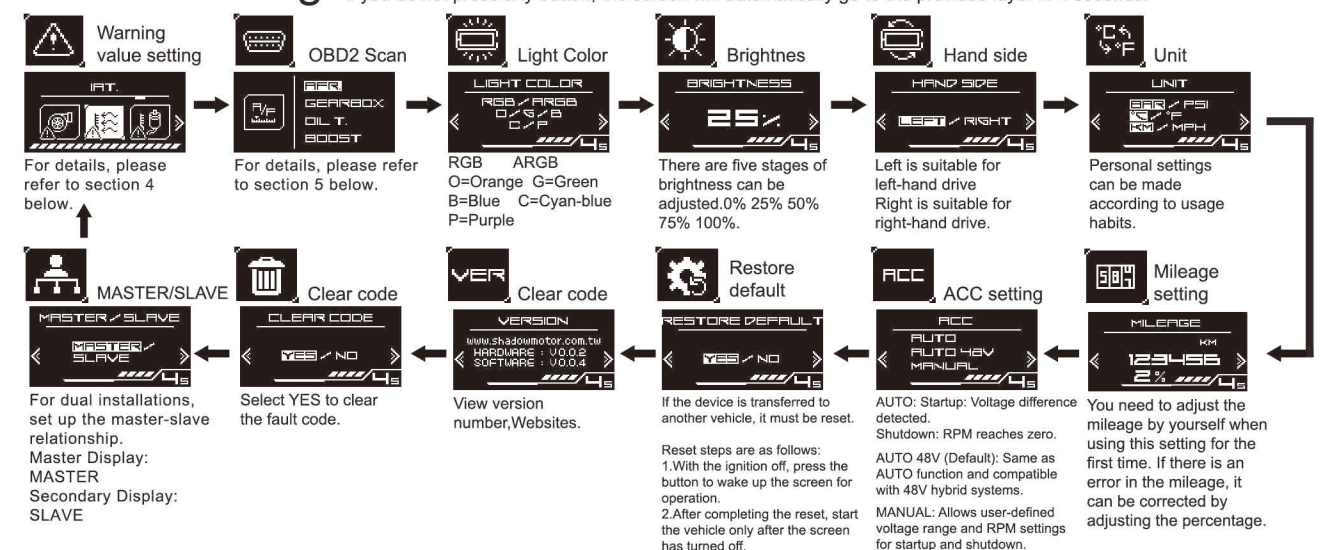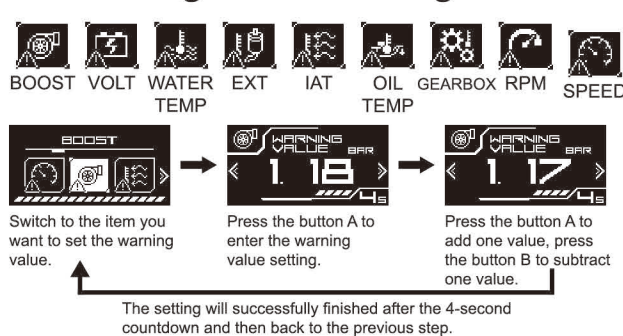
Button A — seven-color atmosphere lights — OLED Display

Button B

1.Single mode switch

Short press button A (Cycle switching)

BOOST 1.20 BAR | VOLT. 13.7 V | WATER 35 °C | EXT. 409 °C | IAT. 48 °C | AFR. 14.7 R L

SPEED 29 MPH | RPM 4469 | MILEAGE 145745 MPH | OIL 87 °C | GEARBOX 43 °C

BOOST | VOLT. | WATER TEMP. | EXT. | IAT. | AFR.
SPEED | RPM | MILEAGE | OIL TEMP. | GEARBOX TEMP.

2.Dual mode switching

After selecting information 1, you can press the button B to select the required information and then two information can be displayed at the same time.

4.6 PSI / 13.7 V | 4.6 PSI / 48 °C | 4.6 PSI / 409 °C | ...... | 4.6 PSI / 29 MPH

VOLT. | IAT. | EXT. | SPEED

Short press the button B (Circular switching. The sequence is the same as the single mode switching)

3.Basic setting

Long press the button A to enter the basic settings. In the setting page, if you do not press any button, the screen will automatically go to the previous layer in 4 seconds.

Warning value setting
IAT.
For details, please refer to section 4 below.

OBD2 Scan
AFR GEARBOX OIL T. BOOST
For details, please refer to section 5 below.

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

Brightness
BRIGHTNESS 25%
There are five stages of brightness can be adjusted.0% 25% 50% 75% 100%.

Hand side
HAND SIDE LEFT/RIGHT
Left is suitable for left-hand drive
Right is suitable for right-hand drive.

Unit
UNIT
Personal settings can be made according to usage habits.

MASTER/SLAVE
MASTER/SLAVE
For dual installations, set up the master-slave relationship.
Master Display: MASTER
Secondary Display: SLAVE

Clear code
CLEAR CODE YES/NO
For details, please refer to section 4 below.
Select YES to clear the fault code.

Clear code
VERSION
www.shadowmotor.com.tw
HARDWARE : V0.0.2
SOFTWARE : V0.0.4
View version number,Websites.

Restore default
RESTORE DEFAULT YES/NO
If the device is transferred to another vehicle, it must be reset.
Reset steps are as follows:
1.With the ignition off, press the button to wake up the screen for operation.
2.After completing the reset, start the vehicle only after the screen has turned off.

ACC setting
ACC AUTO AUTO 48V MANUAL
AUTO: Startup: Voltage difference detected.
Shutdown: RPM reaches zero.
AUTO 48V (Default): Same as AUTO function and compatible with 48V hybrid systems.
MANUAL: Allows user-defined voltage range and RPM settings for startup and shutdown.

Mileage setting
MILEAGE KM 123456
You need to adjust the mileage by yourself when using this setting for the first time. If there is an error in the mileage, it can be corrected by adjusting the percentage.

4.Warning value setting

BOOST VOLT WATER TEMP EXT IAT OIL TEMP GEARBOX RPM SPEED

BOOST | WARNING VALUE 1.18 BAR | WARNING VALUE 1.17 BAR

Switch to the item you want to set the warning value. | Press the button A to enter the warning value setting. | Press the button A to add one value, press the button B to subtract one value.

The setting will successfully finished after the 4-second countdown and then back to the previous step.

5.OBD2 Scan

The data that can be displayed is mainly provided by the original vehicle ECU.
*OBD2 scan can be selected as data display. If there is no data to display, it can also be OFF and blocked.
*AFR, GEAR BOX TEMP., OIL TEMP., and BOOST are not supported by some vehicle models.

AFR | GEARBOX | OIL T. | BOOST

*It is recommended to choose a channel that responds to stepping on the accelerator.
*Diesel vehicles do not support AFR display.

WATER T. | IAT. | EXT.

*CH.1 is the default channel, supporting most vehicle models.
*For some Honda models, CH.2 must be selected, which also contains Honda-specific intake and exhaust temperature information.

Diesel vehicles do not support exhaust temperature display.

PRODUCT SETTING CORRESPONDENCE LIST

	Default alert value	Default alert value	Setting range	Setting range	Default unit
BOOST	1.0bar	17.4psi	-1~1.5bar	0~21psi	Bar
VOLT.	11.0V	11.0V	8~18V		V
WATER TEMP.	110°C	230°F	0~150°C	32~300°F	°C
EXT.	900°C	1500°F	500~1300°C	900~2400°F	°C
OIL TEMP.	110°C	230°F	0~150°C	32~300°F	°C
IAT.	60°C	140°F	0~100°C	32~210°F	°C
AFR					AF
GEARBOX	105°C	221°F	0~150°C	32~300°F	°C
MILEAGE					KM
RPM	6000RPM	6000RPM	800~10000RPM	800~10000RPM	RPM
SPEED	160KM	100MPH	30~250KM	20~155MPH	KM

Troubleshooting

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

Problems	WHY	Confirm items
No action is shown after the power is turned on.	1.Poor contact with the OBD II connector. 1.The vehicle lacks CANBUS signal.	1.Please ensure that the OBD2 plug is securely connected. 2.Check if the vehicle's year and model support OBD2 reading.
After the power is turned on, "---" appear on the screen.	The value cannot be displayed. It may be that the PIDs are not supported in the original factory settings, so the OBD2 display value cannot be displayed.	"---" indicates that the original vehicle's ECU does not provide that data display.
The lights of other modes keep flashing during use.	The warning function of other modes is activated.	1.Switch to the mode corresponding to the flashing light, and check for any abnormal data. 2.Increase the warning value or set it to the maximum to disable the warning.
After the engine is turned off, the product is not turned off at the same time.	This is because the ECU shuts down and stops sending signals after the engine has been turned off for a period of time.	1.AUTO mode toggles power based on ECU signals. 2.Manual power toggle can also be configured in "Basic Settings".
After the engine is started, the product is not turned on at the same time.	This is because the ECU will start sending signals after the engine has been started for a period of time.	This is normal, please don't worry.
The AFR signal is incorrect or cannot be read.	The value cannot be displayed or the value is incorrect. It may be that the PIDs are not supported in the original factory settings, so the OBD2 display value cannot be displayed.	The sensor can be selected by setting the AFR signal source to ensure that the correct information can be read. If the information is still incorrect, it means that the product does not support the signal of the car.
Warning mode flashing occurs at normal values.	It may be that the warning value is set too low, so the warning mode comes out early.	Please check the alert threshold settings.
Some values (turbo, exhaust temperature) cannot be displayed.	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.	Check if the PIDs and components are used in the factory default settings.
Product speed does not match the speed shown on the car.	The data is sourced from the ECU, providing unaltered raw data from the vehicle.	According to the "Vehicle Safety Inspection Standards Act," the speed displayed on the dashboard of factory vehicles generally tends to be slightly faster than the actual value.

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

Shadow

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