

USER'S MANUAL

Easy Installation

Thank you for purchasing this PIVOT product.

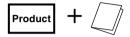
Lasy Ilistaliation

Please read this manual carefully and keep it for future reference.

BOOST+DIGITAL DXB-B

DUAL GAUGE

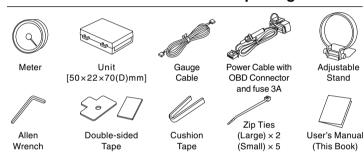
• If this product is given to another user, make sure to include this User's Manual.



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Please check the contents of the package





- 1. The display will not be proper if the ECU being used is not the standard one or if a sub-computer is being used, even in compatible car models.
- 2.Cannot be used in combination with other company's products that use Diagnostic Monitoring Connectors.



Improper use or disregard of these warnings may result in the injury or death of people.

Do not work in areas where there is excessive exhaust.

Due to vehicle exhaust emission poisoning or fire may result in a damage to humans.

Do not crush the cable.

Please be careful that the cable does not get crushed by the seat rail or car door steel plate, nor cut by any sharp steel plate as this may cause a poor connection or an electric short leading to fire or other danger.

Do not operate while driving.

Operating or checking the display during driving may cause an accident; please use with the utmost consideration for safety.

Please securely fasten the product and be sure to store bundle away all wires with tape, etc...

It is very dangerous to pull tangled wires by force or allow tangled wires to interfere with driving.



Improper use or disregard of these warnings may cause injury to persons, damage the product and other things.

This product is for DC12V cars;

Installation cannot be carried out on cars with other voltage batteries.

● Just after installation do not exert any strong force on the product.

When double-sided tape is used for an installation be warned that when hot the tape temporarily losses adhesiveness.

● Do Not Use Chemical Cleansers.

If the unit gets dirty please wipe with a soft cloth to remove any dirt. Do not use chemical cleansers such as thinner, benzene, or alcohol.

- Do not install the product in any place subject to high temperature or any place where water may be splashed.
- ■Make sure to replace all screws and parts to their original place.
- Do not install the product in a place where it will cause distraction.
- Do not, in any manner, process, take apart, or make changes to this product.

Features

Each of our Dual Gauges offer one type of analog display coupled with a multi-digital display in one smart looking unit, thus saving not only space but money.

Black Titanium Bezel	High quality black titanium bezel.	
Chic white needle	Chic white needle matches almost any interior.	
Wide Range Dial	Positive range uses wider lettering for improved readability.	
Dual Display	Boost is shown by the needle, water and voltage are shown digitally.(Oil temp can be shown with the purchase of separate temp sensor, DTS)	

Boost Auto Peak	Peaks in boost are displayed even into the negative range, so never miss an instantaneous peak again.
Smooth Action	New Controller provides needle action quick and smooth.
Peak Hold	Save and display peak reading (only Water Temp).
Easy Installation	Simple coupler connection to Diagnostic monitor connector.

Part Names and Display ranges

1 Analog Display

Display one type of data.

2 Needle

Shows the current values and peak value.

3 Switch

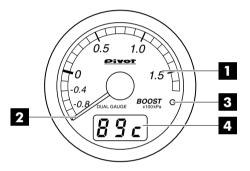
Use to change modes of digital display and reset the peak value.

4 Digital Display

Display switches between types.

5 Illumination (night illumination) Normally illuminated when on display.

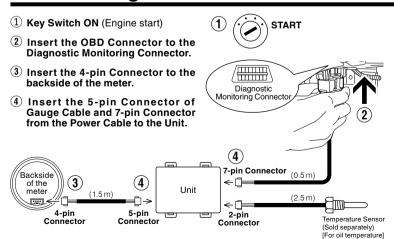
Analog Display Dial: White. Needle: White Digital Display Green



[Display lange]

Analog Display	Boost [-100 ~ 154 kPa]		
Digital Display	Water Temp / Voltage [Water Temp : -35 \sim 150 °C / Voltage : 8 \sim 18 \vee]		
	Oil Temp (Displayed with Sensor sold separately) [-35 \sim 150 $^{\circ}$ C]		

Connecting the Wires



[Data] Placement Diagram for Diagnostic **Monitoring Connector**

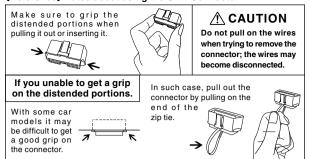


- 1By the accelerator pedal
- ②At the right foot of the driver seat (with lid)
- (3) At foot of driver seat in the center (4) At the left foot of the driver seat (with lid)
- ⑤At the right side of the center console
- 6At the right foot of the passenger seat
- (7) Behind the panel by the steering (with lid)
- 8 At the left foot of the passenger seat
- 9At the left side of the center console @Panel to right of steering wheel

(upper part of small storage box)

Note that only after installation the unit must communicate the car and hence it may take approximately 1 minute for the display to come on. From the second time, the display will take approximately 10 seconds to appear. *Same for reconnecting the OBD Connector.

[Reference] Notes about using the OBD Connector



About Using OBD Products in Combination

If you wish to use DUAL GAUGE in combination with products in our 3-drive Series (FLAT or COMPACT), PROGAUGE the "OBD2 Wiring Kit OBD-EH" (sold separately) makes installation a snap.

For more details about using combinations of products see here.

https://pivotjp.com/obd-e/

*When using the DUAL GAUGE with products mentioned above, they can only be used together in compatible model vehicles for both products.

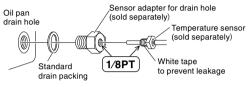
Connecting Oil Sensor

To display Oil temperature, you must purchase Temperature sensor (DTS ¥3,800) which is sold separately.

1

Depending on the installation you may need a sensor adaptor. (sensor connector 1/8 PT sold separately)

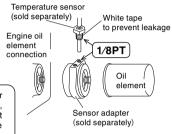
Oil Drain Hole Installation





For cars chassis that are low to the ground or in cases where road conditions may be poor, please do not use this type of installation. It may lead the sensor to bump against the ground and break or be damaged.

Oil Element Installation

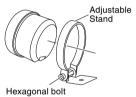


Installing The Product

Installation with the Adjustable Stand

Fasten using the double-sided tape. (On top of the steering column cover or dashboard.)

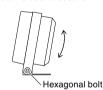
 Slightly loosen the Hexagonal bolt and install the gauge into the Adjustable Stand.



② Fasten using the double-sided tape. (Clean the surface; removing all oil and dust.)



*Please be sure about where you wish to install the meter, as it is not advisable to reuse double-sided tape. ③ After deciding the position and angle of the meter face, fasten the Hexagonal bolt on both sides to secure.



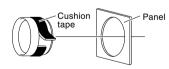
*It is possible to install the Adjustable Stand in the reverse direction.

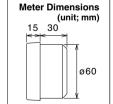


(Normal) (Reverse direction)

Mount into the Panel

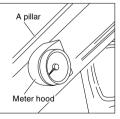
- Wrap the cushion tape around the base of the meter.
- ② Press into the 60 mm hole in the panel.





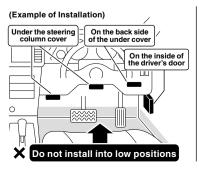
*If you wish to fasten the unit to the A-pillar or column cover, please purchase and use the separately sold meter holder which gives you installation a clean natural look. (For mounting to the A-pillar or other slanted surface, it is necessary to use

Mater Hood 60 (for ø60) MH6-U (Multi-Purpose Type) MH6-C (Processing Kit)

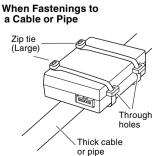


Installing The Unit

As shown in the right diagram, fasten the unit into positions not usually affected by water.



Double-sided tape (Included) Clean to remove oil and dust.



Basic Operation

1 Key Switch ON (Engine start)



Demo 3



Display Each Mode



Key Switch OFF (Engine stop)



Meter OFF



The needle stops in the vicinity of lowest value

Opening Demo

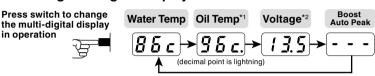
- •When the key is turned ON the needle will move to the extreme left several times for searching position. Then it will move to the maximum value and finally to reading for current measurement item.
- Due to analyzation time for the car data transmission it may take up to a few seconds from engine start before opening demo.

Turning off the Display

• Due to analyzation time for the car data transmission, the illumination may remain on for up to 3 minutes even after the engine has been turned off; this is normal and no effect on the vehicle performance.

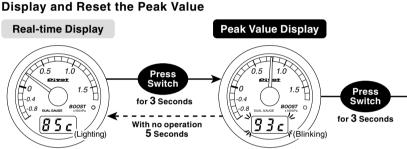
Switching The Display



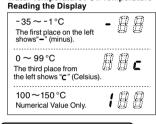


*1. Not displayed without temperature sensor.

*2. For some car models the voltage cannot be displayed or "---" will appear. For details, see the Fitting List.



Water Temperature / Oil Temperature



Reset the Peak Value

Only the peak value on display will be reset. This will return to the Real-time Display for the currently displayed mode.

Boost Auto Peak Display

- Display "- - " on the multi-digital display when the value in negative pressure range.
- Display peak value on the multi-digital display if the value in positive pressure range. Display "- -" if the value in negative pressure range more than 3 seconds.
- *Peak readings are reset when the key is turned OFF
- *For Boost, Vacuum, RPM, Water Temperature and Oil Temperature the high will be shown and for Voltage the low will be displayed.
- *If you wish to check the loss of voltage upon operation of the starter, turn the key to the ON position and after the digital display comes on, operate the starter.

Troubleshooting

Trouble	Possible Causes	Possible Solutions	
Does not work with Engine start.	Poor connection of Gauge cable, 7-pin Connector and OBD Connector.	Please reconfirm whether wiring and connections are correct or not.	
	The unit has been installed into an incompatible car model.	Please check the "Fitting List".	
	OBD Connector was connected when the key switch was set to OFF, or car battery was changed.	Connect again OBD Connector when the key switch is set to ON (engine start).	
Upon starting up, the unit will start in the newly changed display.	Because after changing displays, if the car's engine is turned off within 3 seconds, the new setting will not be stored, make sure to wait at least 3 seconds before turning the engine off.		
Before the opening demo starts the needle briefly moves.	This is due to a special characteristic of the meter and is not a malfunction.		
The displayed values are different from the standard meter.	Due to the ECU information received, the displayed values on this product may differ from those of standard or other meters.		
	This product's boost meter reads absolute pressure and may differ from a meter using relative pressure.		
The key switch is set to ON, Needle of Boost shows minus value.	Absolute pressure sensor shows the value which subtracted atmospheric pressure. (Example : 700m above sea level = Minus 8kPa)		
The Oil Temperature displays do not change from, or do not show the value with connecting the sensor.	Poor connection of Temperature sensor or breaking of wire.	Please reconfirm Temperature sensor whether wiring and connections are correct or not.	

^{**}Our products have already been recognized as our Industrial Property or are in the process of receiving Industrial Property status.

^{**}We plan in the near future to take all possible legal measures to protect against unfair competition from look-alike products using similar designs, regulating characteristics, circuitry and circuitry layout.

[₩]We strictly prohibit the unlicensed use of the PIVOT trademark and the unauthorized use of PIVOT User's Manual.