

### DUAL GAUGE PRO

**Easy Installation** 

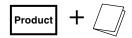
WATER TEMP + DIGITAL

Designed for Subaru BRZ and Toyota 86 Models

### **USER'S MANUAL**

Thank you for purchasing this PIVOT product. Please read this manual carefully and keep it for future reference

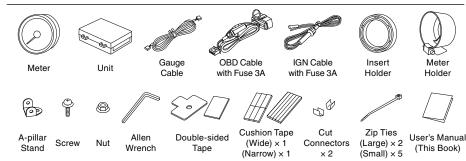
If this product is given to another user, make sure to include this User's Manual.



#### **Contents**

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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.
- 3. For details about using combinations of PIVOT OBD2 products, see here. ⇒ http://pivotjp.com/obd/



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
- 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 to a stable place 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.

## **⚠** CAUTION

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**

Scale designed to match maker gauges, this can switch illumination color between red and white and comes with specialized holder for installation to air vents



## **Part Names and Displays**

1 Analog Display

2 Needle

3 Switch

Display Water Temp data.

Shows the current values and peak value.

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

4 Digital Display

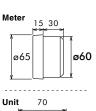
Illumination (night illumination)

6 Display Range

Display switches between types. Normally illuminated when on display

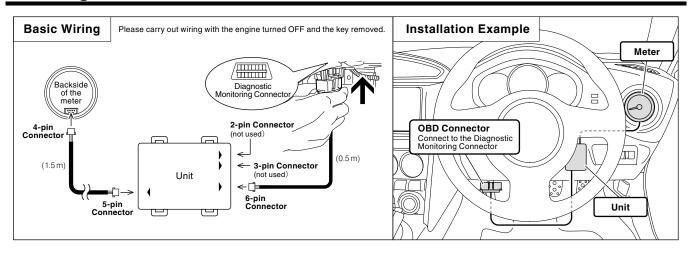
and Three-step dimming.

Analog Display	Dial : White or Red (switchable) Needle : Red	
Digital Display	Red	
Analog Display	Water Temp [-35-150 °C]	
Digital Display	Voltage [8-18V] Oil Temp [-35-150 °C]	

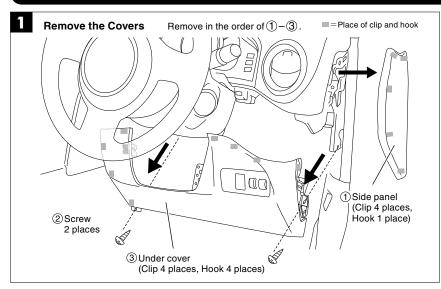


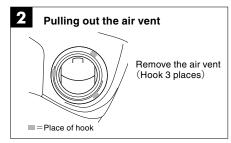
Size [Unit:mm]

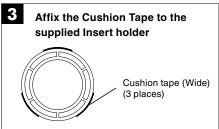
## Wiring Method and Installation



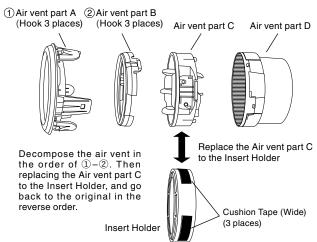
### Installing the product with Insert Holder

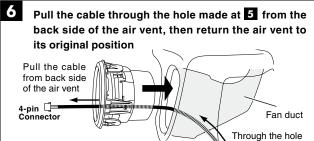


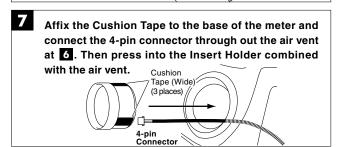








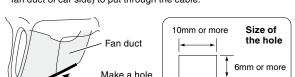




Make a hole on fan duct to put through the cable

Make a hole with things like a cutter knife in fan duct (flat area of the fan duct of car side) to put through the cable.

in this area

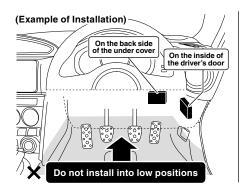


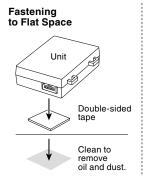
- Connect 5-pin connector and 6-pin connector(power cable), then fasten the unit.

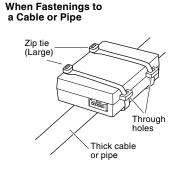
  See Note 1: [Installing The Unit] on page 3.
- 9 Connect the power cable to the Diagnostic Monitoring Connector, and bind the extra cables.
- Return the panels to its original place by going in the reverse order from 1.

#### Note 1: Installing The Unit

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







### Installing the product without Insert Holder

- Decide a install location of the meter and connect the 4-pin connector, then fasten the meter.
- Connect 5-pin connector and 6-pin connector(power cable), then fasten the unit. See Note 1: [Installing The Unit] above.
- Connect the power cable to the Diagnostic Monitoring Connector, and bind the extra cables.

#### **Installing The Meter**

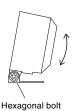
#### A Installation with the Meter Holder

1. Fasten using the double-sided tape.

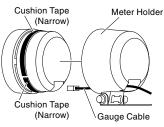


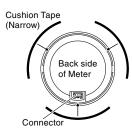
Note: Please be sure about where you wish to install the meter, as it is not advisable to reuse double-sided tape.

2. After deciding the position and angle of the meter face, fasten the Hexagonal bolt on both sides to secure.



3. Affix the Cushion Tape (Narrow) to the base of the meter, connect the Gauge Cable to the Meter, and install the Meter into the Meter Holder. Please add the Cushion Tape if the Meter not fixed.



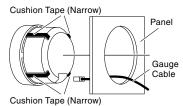


#### B Installation to panel or something

Cut the Cushion Tape (Narrow) in half, affix to base of the Meter to be on press fit condition with adjusting number. And connect the Gauge Cable to the Meter and insert into the panel.

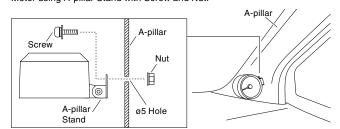


Tape(Narrow) in half



#### C Installation to A-pillar using A-pillar Stand

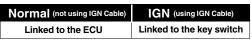
Make a ø5 hole on the place to install the meter of the A-pillar, and fix the Meter using A-pillar Stand with Screw and Nut.



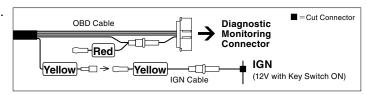
(The installing car model mentioned in the Compatibility list or the display does not lit with engine start sometimes.)

### If connect the power cable to IGN

The meter start-up and stop is differ in power connection method.



Unplug the connector of Yellow and Red cable of OBD Cable and connect Yellow cable of IGN Cable into the connector on Yellow cable, then connect to IGN cable to IGN of car. (Do not connect to Acc)



### Notes about using the OBD Connector



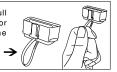
#### **⚠** CAUTION

Do not pull on the wires when trying to remove the connector; the wires may become disconnected.

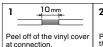
#### If you unable to get a grip on the distended portions.

may be difficult to get a good grip on the connector.





#### How to use the Cut Connectors



10 mm Peel off of the vinyl cover at the end of the product's wire.







When crimping, please use crimpers or use pliers to bend and then solder together.

### **Basic Operation**



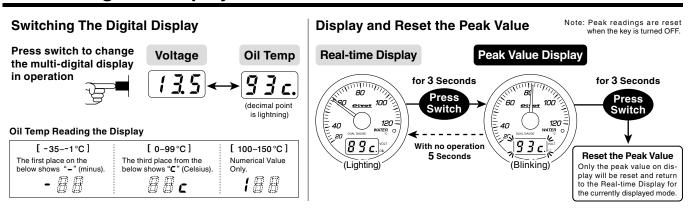
### Demo

- 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.

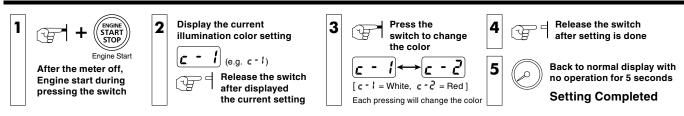
# the Display

Turning off • Due to analyzation time for the car data transmission, the illumination may remain on for up to 1 minutes even after the engine has been turned off; this is normal and no effect on the vehicle performance. (except wiring IGN)

## Switching The Display

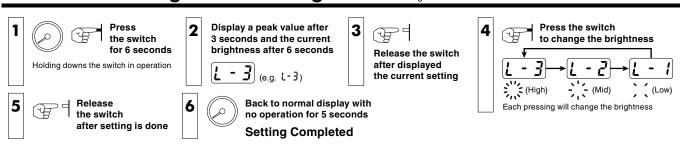


## Illumination color settings



# Illumination brightness settings

Adjustment in case of anxious about reflected illumination of door mirror



## **Troubleshooting**

Trouble	Possible Causes	Possible Solutions
Does not work with Engine start.	Poor connection of Gauge cable,  6-pin Connector or OBD Connector wires.	Please reconfirm whether wiring and connections are correct or not.
	The unit has been installed into an incompatible car model.	Please reconfirm the fitting list.
Upon starting up, the unit will not 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.	

(Note) • 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,
- We strictly prohibit the unlicensed use of the PIVOT trademark and the unauthorized use of PIVOT User's Manual.