

USER'S MANUAL (Product Number :) OBM

Thank you for purchasing 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.

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OB MONITOR

OBD MULTI MONITOR with OLED DISPLAY



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Please check the contents of the package



WARNING

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

- This product cannot be installed in non-compatible car models.
- Make sure to keep car stopped while working and be aware of the ventilation, such as exhaust emission.
- Do not operate while driving to prevent an accident.
- Do not crush the cable, nor nipped by metals or something.
- Please securely fasten the product not to fall the product while driving.

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

- 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.
- Cannot be used in combination with other company's products that use Diagnostic Monitoring Connectors.
- For details about using in combination with other PIVOT products that use Diagnostic Monitoring Connectors please see our Web Site at https://pivotjp.com/obd-e/

Compact Easy-to-read Next-generation OBD Multi-Monitor

Compact and Easy-to-read

Our special scale design coupled with the high contrast and wider field of view offered by organic EL brings you an easy-to-read compact multi monitor that won't interfere with the standard built-in meters or look like it was just added onto the dashboard.

Single-display and Multi-display

The display can be easily switched between our specially designed analog/digital single display type and a digital triple display type to meet your needs.

Easy installation

Simply connect to the diagnostic monitoring connector.

Switch Display Areas

The single display can be also be easily switched to show an analog display of boost or vacuum and the easy-to-read numerical area can be changed to view such values as motor and engine rpm for hybrid cars.

Self-Adjusting Brightness

The display will automatically adjust brightness to fit the ambient light conditions; making sure it is not blinding at night. Also, if the car interior becomes overheated, the display brightness will self adjust to lessen a decrease in performance.

Part Names of Monitor



Connecting The Connectors

① Insert Connectors of the Monitor and the OBD Cable to the Unit.

2 Insert the OBD Connector to the Diagnostic Monitoring Connector.

See included [Compatibility List] to check the position of the Diagnostic Monitoring Connector.

[Reference] Notes about using the OBD Connector

Size [Unit :mm]

Installing the Product

Installing the Monitor Install to a position which is easy to see and which allows for easy operation.

(Example of Installation)

Using L-shaped Fastener

When mounting on lower position

Double-sided tape

Installing the Unit

🕂 Bundle away all wires

While in use if wires become free they may interfere with driving and cause accidents. Also, wires which are smashed or crushed may result in a short out and can be extremely dangerous.

[Before setting]

[Set]

Note that the setting of Communication-system is stored. No need re-setting when you unplug the OBD connector or replace the battery.

Switch the Display mode Switch between Single-display and Multi-display

Single-display and Multi-display will change with each pressing of the MODE switch

Switch Display Items on the Single-display

[Each Display Item] Note that display item is different by Communication-system (See page 7 of this manual).

[Each Analog Display Dial] Note that it's not display each value.

Water Temp	Voltage	Engine RPM	BOOST	BOOST (See Note)	Oil Temp	Intake Temp
100 50 C °C	10 8 4 V	5000 rpm	50 100 0 KPa	100 kPa 0 kPa	100 70 C °C	50 - 100 0 - °C
		Motor RPM	Vacuum	(Note) Only for Com	munication-system is I	М.
		° F rpm 5000	⁰ F kPa -50 -100			

[Switch Display Areas]

In the following Communication-system, automatically switch display areas in accordance with the reading value of analog display.

Communication-system $A / B / C$	Communication-system		
BOOST Vacuum 10 10 10 10 10 10 10 10	Engine RPM Motor RPM		

Switch Display Items on the Multi-display

[Each Display Item] Note that display item is different from Communication-system (see page 7 of this manual).

Display the Peak value

Display Item and Range

		Single-display	Multi-displ	ay	
			108°C 13.5 \ BOOST 128	WAT 3 / 3 3kPa 4	
Communi-			Display Range		
cation system	Display Item	Analog	• 2 Digital	• 3 4	
	Water Temperature	50 to 110 °C	-35 to 150 °C	-35 to 150 °C	
A	Voltage	8.0 to 16.0 V	8.0 to 18.0 V	8.0 to 18.0 V	
	Engine RPM	0 to 8000 rpm	0 to 9900 rpm (See Note 2)	0 to 9900 rpm (See Note 2)	
	BOOST (Vacuum)	-101 to 100 kPa	-101 to 154 kPa	-101 to 154 kPa	
	Intake Temperature	0 to 100 °C	-35 to 150 °C	-35 to 150 °C	
	Run Time (See Note 1)			0:00 to 9:59 min.	
	Water Temperature	50 to 110 °C	-35 to 150 °C	-35 to 150 °C	
	Voltage	8.0 to 16.0 V	8.0 to 18.0 V	8.0 to 18.0 V	
КЛ	BOOST	0 to 200 kPa	0 to 249 kPa	0 to 249 kPa	
	Oil Temperature	70 to 150 °C	-35 to 150 °C	-35 to 150 °C	
	Intake Temperature	0 to 100 °C	-35 to 150 °C	-35 to 150 °C	
	Run Time (See Note 1)			0:00 to 9:59 min.	
	Water Temperature	50 to 110 °C	-35 to 150 °C	-35 to 150 °C	
н	Voltage	8.0 to 16.0 V	8.0 to 18.0 V	8.0 to 18.0 V	
	Engine RPM	0 to 8000 rpm	0 to 9900 rpm (See Note 2)	0 to 9900 rpm (See Note 2)	
	Motor RPM	0 to 8000 rpm	0 to 9900 rpm (See Note 2)	0 to 15000 rpm (See Note 2)	
	Run Time (See Note 1)			0:00 to 9:59 min.	

Note 1: Run Time (time elapsed from start of engine) can only be shown in Multi-display **3** and minimum display unit is 1 min. Note 2: Minimum display unit is 100 rpm.

Explanation of each Display Item

Display Item	Explanation		
Water Temperature	Temperature of the cooling water		
Voltage	Voltage of the battery		
Engine RPM	Engine Rotation		
Motor RPM	Motor Rotation of Hybrid car		
Vacuum	Negative pressure to the engine		
BOOST	Positive pressure of turbo engine		

Display Item	Explanation
Oil Temperature	Temperature of the engine oil
Intake Temperature	Temperature of Intake air to the engine
Run Time	Elapsed Time from start of engine (Grasp of the driving time, etc.)

Troubleshooting

Trouble	Possible Causes	Possible Solutions	
Does not display with Engine start.	Poor connection of each Cable or Con- nector.	Reconfirm whether wiring and connec- tions are correct or not.	
	The unit has been installed into an incompatible car model.	Check the "Compatibility List".	
	Wrong Communication-system has set. Check the "Setting Communica system".(See page 4 of this mar		
The battery goes flat on the car which needs to be set communication- system C. (Prius ZVW50, etc.)	The communication-system has set something other than C.	Set communication-system to C.	
The display is dark when the temperature in-car is high on start-up.	The brightness has automatically adjusted by safety function of the product. It will return to the normal brightness that a few minutes when the temper in-car dropped.		
The engine has been turned OFF but the display remain on.	This product is interlocked with the ECU (engine computer) power. Depending on the model of car, the display may remain on for up to 3 minutes even after the engine has been turned off; this is normal.		

Self-Adjusting Brightness Brightness of the display is automatically adjusted under the following conditions. • Adjustment according to ambient brightness • Adjustment according to ambient brightness

(reduce nighttime glare)	igittiless	(prevent the	product deter	rioration)	lature
Ambient brightness Luminance (%)		Ambient temperature (°C	C) Luminano	ce (%)	
Daytime (bright)	100	Under 50		100	
Nighttime (dark) 20		From 50 to 60		75	
	!	Over 60		60	
[Check the Luminance] (Normally not r	ecessary)				
1 Press the DOWN switch 2 Display	100%	75%	60%	20%	3 Release the switch
during Single-display for 3 seconds	D-10	D- 8	D- 6	D- 2	for 5 seconds \rightarrow Real-time display

If connect the power cable to IGN (The installing car model mentioned in the Compatibility List) Change the wiring to IGN, if the installing car Cut Connector model mentioned in the Compatibility list or the OBD Cable Diagnostic display does not lit with engine start sometimes. Monitoring Connector Red [Connecting] Unplug the connector of Red and Yellow cable of {Yellow)–⊐⊐0 Yellow┝⊐□ → IGN OBD Cable and connect the connector of Yellow (12V with key ON) IGN Cable I cable to IGN. How to use the Cut Connectors 10 mm 10 mm 3 4 5 1 2 When crimping, please use crimpers or use pliers Peel off of the vinyl cover at the end of the product's wire. to bend and then solder Insulate with vinvl Peel off of the vinyl Wrap around both Close tightly with together. tape. cover at connection. wire coils. cut connector.

(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, circuitry and circuitry layout.

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