

USER'S GUIDE

Thank you for purchasing PIVOT "X2M-C"

Please read these instructions carefully before installing or using this device.

Do not crush the

connection or an

electric short leading

to fire or other danger.

cable

Please do not lose this user's guide, as you will held liable for the cost of reissuing it.





Do not work in areas

excessive exhaust

Due to vehicle exhaust

emission poisoning or

Please securely fasten

the product to a stable

It is very dangerous if,

falls off and interferes

while in use, the product

fire may result in a

damage to humans.

where there is

A CAUTION Improper use or disregard of these warnings may

result in the injury or death of people.

Please be careful that Operating or checking the the cable does not get display during driving may crushed by the seat cause an accident; please use with the utmost rail or car door steel plate, nor cut by any consideration for safety. sharp steel plate as this may cause a poor

drivina

Please be sure to store bundle away all wires with tape, etc...

Do not operate while

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

This product is for

DC12V cars;

!NOTE

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

Improper use or disregard of these warnings may cause

injury to persons, damage the product and other things.

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

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

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.

Fitting

place

with braking.

- 2. Cannot be used in combination with products that use another company's diagnostic monitoring connectors.
- 3. For details about using in combination with other PIVOT products please see our Web Site at http://pivotjp.com/information/obd_conjunction-e.html.

Compatible Car Models

Cars that are after model changes are not compatible.

Vehicle	Type	Model Year	Car Model	Engine
COOPER S	R56	2007.2~	MF16S	N14B16A
COOPER S CLUBMAN	R55	2007.10 ~	MM16	

Check the contents











Cut

Connector

Meter Hood



Flexible Stand



FEATURES

With our X2M-C multi-gauge, just by connecting to the diagnostic monitoring connector, the MINI specialized CAN communication can be analyzed and three types of data can be displayed. (Not for use with incompatible models)

Allen

Wrench

With just one unit switch between 2 types of display two displays: Boost and Water Temperature New Controller provides needle action **Smooth Action** quick and smooth Illumination Same Standard Orange Illumination **Peak Hold** Display peak reading It is possible to connect directly using the coupler to the diagnostic monitoring **Easy-installation** connector meaning there is no need for troublesome wiring Stepping motor drive brings you a high-**Stepping Drive** performance display with no hunching or overshooting

Opening Demo

Turning the key ON (engine start) will display the opening demo

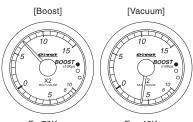
Illumination (Dial lighting)

The illumination is always on while driving, but because it is a low energy LED this no effect on the vehicle performance or battery life.

Displays and Uses

Tap

1. Boost (Absolute pressure display*)

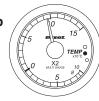


Ex:70Kpa

Ex:-40Kpa

- ▶ **Display** -100~150Kpa
- ▶Use ●Check Boost ●For Eco-driving [Vacuum]
- % This display of absolute pressure includes barometric pressure and may differ from a gauge showing
- relative pressure (mechanical type). ¾ With the key in the ON position, due to altitude the boost needle may show a minus reading.

2. Water Temp



▶ Display -40 °C~150 °C

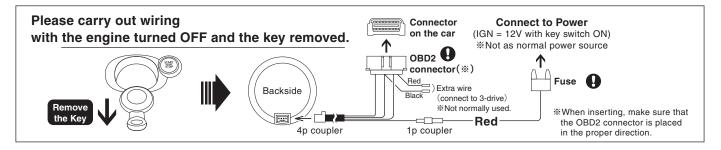
► Use • Prevention of overheating Check Heating etc.

Ex:95°C

3. Peak Hold

Display peak value after the key switch ON.

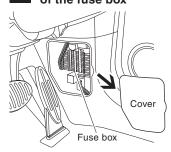
▶Use Check the peak readings



Connecting to a Power Source

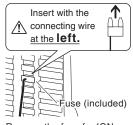
The following is just one example of wiring to the fuse box of a BMW MINI COOPER S MF16S (steering wheel on right). If your model is different and you are unsure of how to connect please contact your dealer.

Remove the cover of the fuse box



Use a flathead screwdriver or such tool to remove the cover of the fuse box found on the side of the panel to the right of the steering wheel.

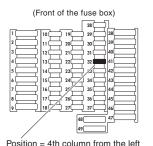
Insert the fuse



Remove the fuse for IGN, and insert the 7.5A flat mini-fuse that is connected to the OBD2 connector.

%If you wish to get power from a fuse other than the 7.5A flat mini-fuse. please purchase separately.

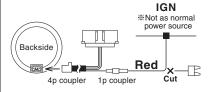
Ex: BMW MINI COOPER S MF16S (steering wheel on right • 2008 MODEL)



4th column from the left and 5th row from the top Number = 32 Capacity = 7.5A

at times like this If you are not using the Fuse Box

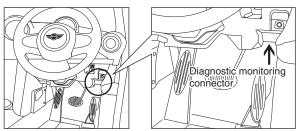
If you are unable to get power from the fuse box, please wire directly to IGN (12V with key in ON position).



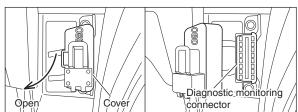
= Cut connector (or soldering)

Connecting the OBD2 Connector

Locate the diagnostic monitoring connector position



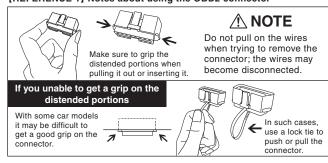
Open the cover



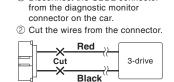
Completely insert the OBD2 connector



[REFERENCE 1] Notes about using the OBD2 connector

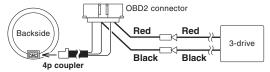


at times like this When use in conjunction with the PIVOT's 3-drive

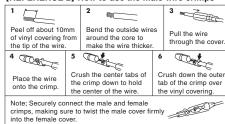


① Disconnect the OBD2 connector

3 Properly connect the black and red wires using a connector. OBD2 connector



[REFERENCE 2] How to use the male wire crimps

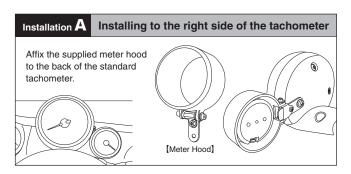


at times like this When use in conjunction with the PIVOT's PROGAUGE or REVLAMP

= Use cut connector (or solder)

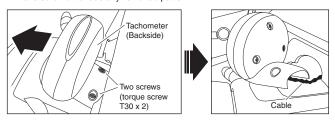
METER INSTALLATION

We suggest installing our meter to the right side of the standard tachometer using the provided meter hood. However it can be placed anywhere you desire and may be used in conjunction with meter hoods and installed as a regular type meter.



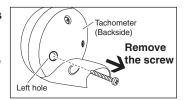
Remove the standard tachometer

Unscrew the two screws (torque screw T30 x 2) from the base at the back of the tachometer and remove it by pulling it forward. (As the wiring for the tachometer is connected to inside the steering column it cannot be removed. Carry out all operations with the wiring pulled out but connected.) *Make sure not to lose any removed parts.



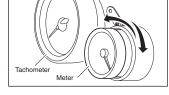
Unscrew the screws at the back of the tachometer

Remove the screw from the left hole at the back of the tachometer. *Put the bolt store in a safe place.



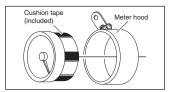
Decide the angle for inserting the meter

Insert the meter into the meter hood and decide the angle of insertion of the meter by aligning the hole of the stay with the screw hole at the back of the tachometer from which the screw was removed in 2 above.



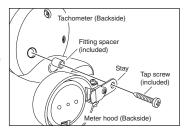
Fasten the meter to the meter hood

Fasten the supplied cushion tape to the meter case and fix the meter hood at the angle that was decided in 3 above



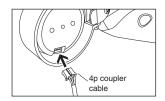
Fix the meter hood with the screw

- 1) Insert the supplied fitting spacer in the screw hole from where the screw was taken from the tachometer in 2 above.
- 2 Match the hole of the stay with the screw hole and use the supplied tap screw to fasten the stay.



Connecting the 4p 6 coupler cable

For details about wiring see p.2; connect by inserting wire into 4p coupler jack at the back of the meter.



1) Bend the stand to securely fit the place of installation.

② Clean the surface; removing all

3 Fasten using the double-sided

not advisable to reuse

double-sided tape.

※ Please be sure about where you

wish to install the meter, as it is

oil or dust

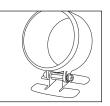
Return the tachometer to its original position

Return the tachometer to its original place by going in the reverse order from 1 above, and securely fasten with the two screws



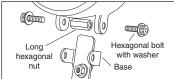
Installing to Installation **B** the dashboard

Fasten using the flexible stand and double-sided tape



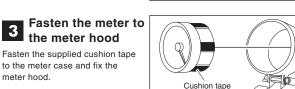
Remove the base of the meter hood

* Make sure not to lose any re-moved parts.

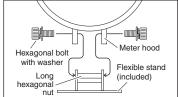


Affix the flexible stand

- 1) Insert the long hexagonal nut between the two legs of the flexible stand.
- 2 Firm fix by tightening hexagonal bolts.

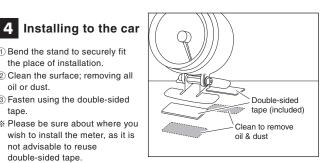


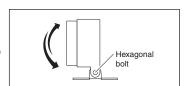
(included)



Adjustment of meter angle Loosen the hexagonal bolt to

decide the angle. After deciding the angle of the meter face, fasten the hexagonal bolts on both sides to secure.

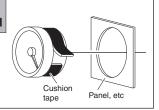




Installation C

Installing into the front panel

Wrap the cushion tape around the base of the meter and forcibly insert into the 60 mm hole in the panel.



PART NAMES

1 Mode Lamp

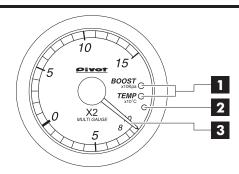
The lamp for the current mode will light up.

2 Switch

Use to switch modes and display peak readings.

3 Needle

Shows the current values and peak readings.



BASIC OPERATION

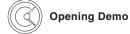












Meter

OFF





Display Boost / Water Temperature

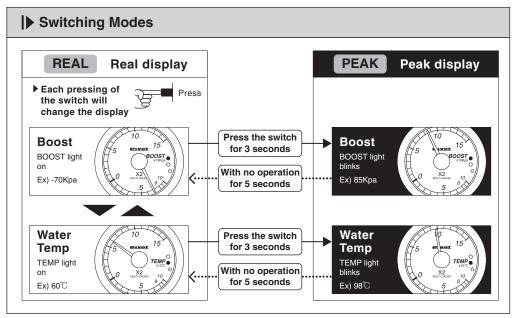


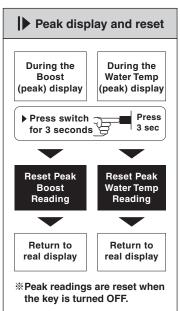




Key OFF (Engine stop)

Due to characteristics of the gauge, even though the engine is off and the gauge is not measuring, the needle stops at the key OFF position.





TROUBLESHOOTING

Trouble	Possible Causes	Possible Solutions		
Does not work with the key ON.	Poor connection of 4p coupler, OBD2 connector or fuse.	Check the coupler connections or conditions.		
	If wiring has been direct to power the red wire may have been improperly wired or there is a poor connection.	Check the red wire connections or conditions.		
	The unit has been installed into an incompatible car model.	Please check the list of compatible car models.		
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.			
The boost pressure display is different from the standard or other gauge.	This product's boost meter reads absolute pressure and may differ from a meter using relative pressure.			
With the key in the ON position the boost needles points to a minus reading.	The sensor for absolute pressure is subtracting for barometric pressure and hence the display shows minus. (EX: Elevation of 700 meters = minus 8Kpa)			
Upon starting up, the unit will start in the newly changed mode.	Because after changing modes, if the car's engine is turned off within three seconds, the new setting will not be stored, make sure to wait at least three 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.			