USER'S GUIDE

Thank you for purchasing PIVOT "X3" "X3R". Please read these instructions carefully before installing or using this device Please do not lose this user's guide, as you will held liable for the cost of reissuing it.

Please check the contents of the package

Wrench



Meter





Zip Tie



Tapes ×2





Car Model List



A CAUTION

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

Coupler Cable <u> ∕!\</u> NOTE

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

Do not work in areas where there is

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

Please securely fasten the product to a stable place

It is very dangerous if, while in use, the product falls off and interferes with braking.

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

fire or other danger

electric short leading to

Do not operate while driving Operating or checking the display during driving may cause an accident; please use with the utmost consideration for

This product is for DC12V cars;

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

Do not, in any manner, process, take apart, or make changes to this product

Make sure to replace all screws and parts to their original place

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 install the product in any place subject to high temperature or any place where water may be splashed

Do not install the product in a place where it will cause distraction



- 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 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.

FEATURES

NO need for hassling with pipes and wires......Coupler connection to the diagnostic monitoring connector for easy-installation. Easy-to-read Multi-gauge Display.....One Unit gives you Three Types of Shift Lamp.

Stepping Drive.....Stepping Motor Drive brings you a High-Performance Display with No Hunching or Overshooting. Easy-to-install Extra thin cables and double-sided tape make it possible to install almost anywhere, including implanting. Easy-to-read illumination design NO need to make any car model settings

PART NAMES AND FUNCTIONS

1 Shift Lamp

Lamp comes on at set point to notify the shift point.

3 Switch

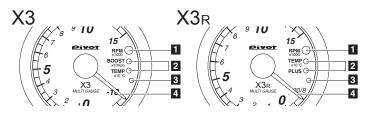
Use to switch modes and make settings.

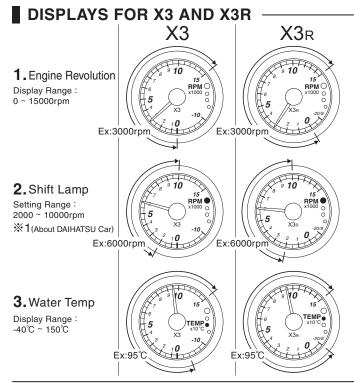
2 Mode Lamp

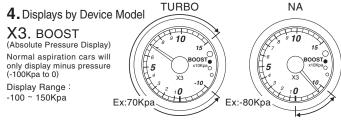
The lamp for the current mode will light up.

Needle

Shows the current values and settings Displays.







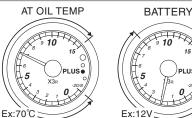
X3R. PLUS MODE

AT OIL TEMP = TOYOTA Display Range : -20 ~ 150℃

BATTERY

NISSAN / HONDA / MITSUBISHI / SUBARU / SUZUKI / DAIHATSU

Display Range: 8 ~ 18V

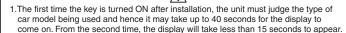


Opening Demo → Display → Stop Illumination (Dial Lighting)

Turning the key ON will display the opening demo one time, and will stop when key is switched OFF. Dial will normally remain illuminated while in operation.

AND S

PLUS

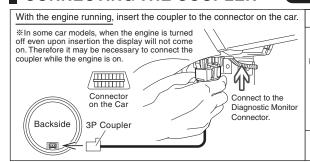


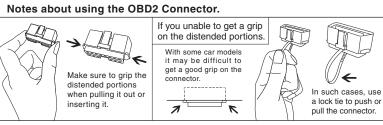
2.It may also take up to 15 seconds for the display to turn off after the key has been switched OFF.

CONNECTING THE COUPLER

Preparation

Before installation, please check the installation position on the separate sheet "Compatible Car Model List".

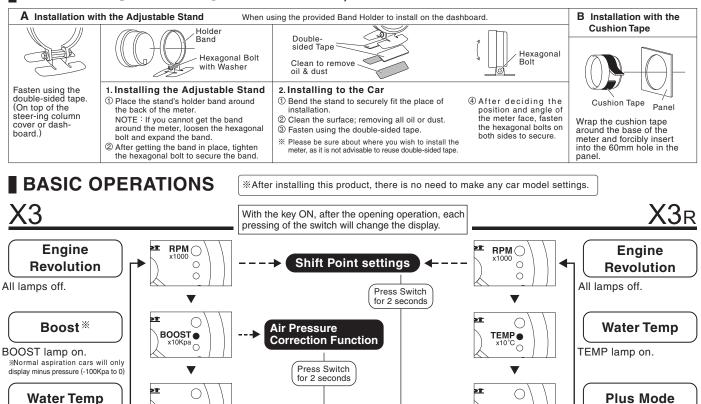




Do not pull on the wires when trying to remove the connector; /!\ CAUTION the wires may become disconnected

■ METER INSTALLATION

Install in an easy-to-view location.





TEMP •

If the switch is pressed for longer than two seconds during the RPM display, the display will change to Shift Point settings.

During setting, the shift lamp will blink.

Setting

•By pressing the switch it is possible to make RPM settings in units of 500 rpm within the range of 2000 ~ 10000 rpm.

Setting Completed

PLUS lamp on.

After two seconds of non-operation the settings will be finalized and the display will change to show RPM.

X1 About DAIHATSU Cars (Includes all OEM car mo

The shift lamp will light up even when displays other than just the engine rpm are on, except for in some models of Daihatsu cars, in which due to the signal design, the shift lamp will not light up when the boost display in on.

Does not light up during boost display boost display and boost display b

2

PLUS

Air Pressure Correction Function

In the following cases, no correction is necessary.

- ① When the display of the ideal absolute pressure (including altitude pressure differences) is desired.
- ② When using in an area where altitude is low (under 200m).

Due to characteristics of the car sensor, the boost display for the X3 has an [Absolute Pressure Display] which takes in altitude differences. This is preferable to the normal gauge which shows relative pressure without taking into account differences in pressure due to altitude. But because of this, a difference will be exhibited between a standard gauge and the X3. In order to correct this error, it is possible to enter the altitude for the area in which the unit is being used and the difference will automatically be adjusted.

How to make Air Pressure Corrections

Pressing the switch for longer than two seconds during the BOOST pressure display will open the pressure correction function.

1 Entering the Altitude

• Press the switch to move the needle to the correct altitude.

TEMP lamp on.

2 0

Completing the Correction

•If the switch is not touched for more than two seconds, the correction will automatically occur.

* Enter the altitude by rounding up or down to the next unit on the scale (x100).

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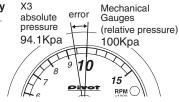


Example of error in Display

If 100Kpa at an altitude of 500 m.

Check a map or the Internetfor the altitude of the area where you are using the unit.

Reference: http://lab.uribou.net/II2h/



Differences in Mechanical Gauge(relative pressure) Display by Altitude								
Altitude(m)	100	200	300	400	500	600	700	800
Difference with X3 display (Kpa)	-1.2	-2.4	-3.6	-4.7	-5.9	-7.1	-8.2	-9.4
X3 Display	98.8	97.6	96.4	95.3	94.1	92.9	91.8	90.6

About absolute pressure and relative pressure

Normal boost meters have been designed following mainstream mechanics and until now have displayed only [Relative Pressure] which does not include differences in pressure due to altitude. The X3 allows the user to see [Absolute Pressure], which includes the differences in pressure due to altitude and this more accurate information allows for better and more suitable engine control.

■ TROUBLESHOOTING

Please note that for some models of car in which the Boost display has been stated to be impossible, the display will work but the values shown will not be accurate nor correct.

Trouble	Possible Causes	Possible Solutions			
Does not work with the key ON.	Poor connection of coupler.	Check the coupler 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. (For details about the basic operations please see the section entitled "Air Pressure Correction Function")				