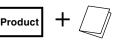


## **USER'S MANUAL**

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.



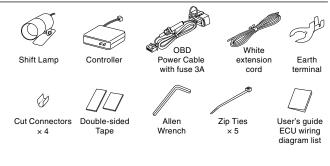
#### Contents

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### Please check the contents of the package

REV COUN

SHIFT LAMP & REV COUNTER for Pros





### A WARNING

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 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.

### 

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**

#### Shift Lamp

- Shift lamp lights up when the set rpm is reached.
- $\cdot$  Ultra bright LED is easy to see even in full daylight.
- · For night driving select auto low lighting or synchronize with parking lights.
- · High quality aluminum machined body with swivel neck.

#### Digital Tachometer

- High precision display for setting shift lamp and viewing rpm.
- $\cdot$  High precision display of engine rpm up to 9999 in 1 rpm units.
- $\cdot$  Shift lamp settings can be made in units of 100 rpm.
- · View real time and peak engine rpm.
- · Compact design needs no space.

#### Alarm

Alarm sounds at shift point for 0.5 seconds.

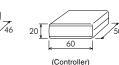
#### Easy Installation

Can be easily installed in some model TOYOTA and DAIHATSU cars directly by connecting to the diagnostics connector. Other models can be connected to the ECU.

#### Compatible Vehicles

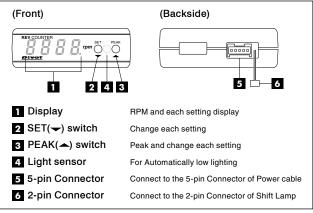
12 V Gasoline Engine Cars (some diesel engine models) For 1  $\cdot$  2  $\cdot$  3  $\cdot$  4  $\cdot$  5  $\cdot$  6  $\cdot$  8 cylinder models.

## Unit : mm]

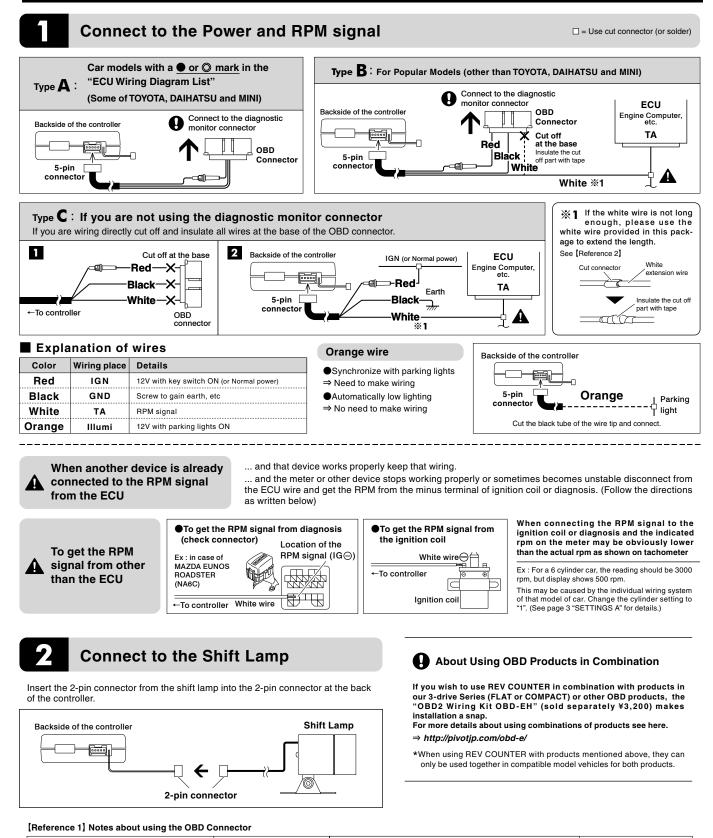


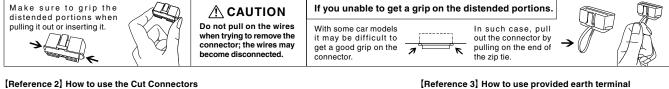
(Shift Lamp)

### Part Names of the Controller



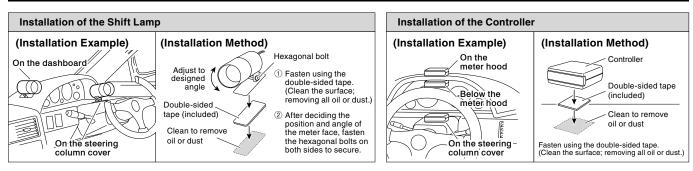
## **Connecting the Wires**



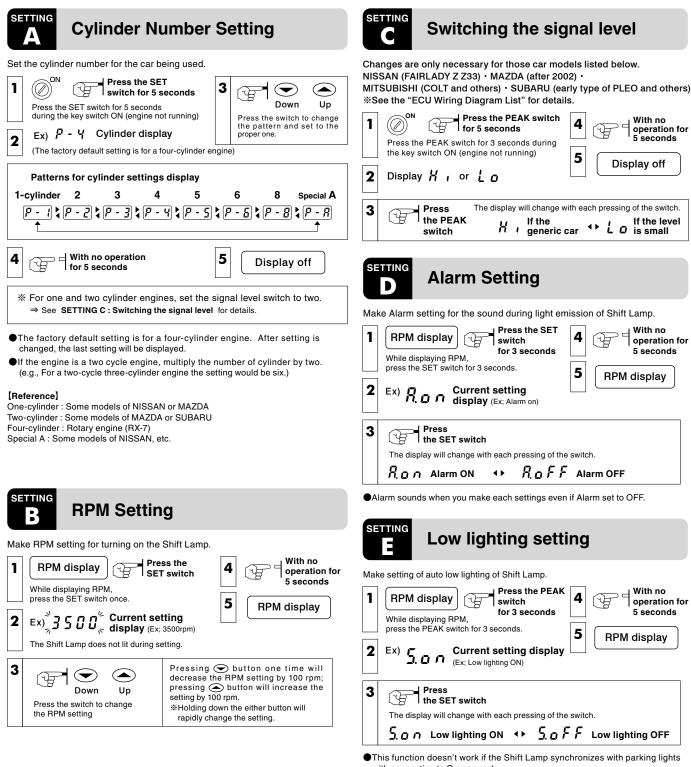


#### 10 mm 10 mm 2 3 4 5 1. Peel off about 10mm of vinyl covering from the tip of the black wire. ⊨ Bend the outside wires around the core to make the wire thicker. Peel off of the vinyl Peel off of the vinyl Close tightly with Insulate with Wrap around both Crimp down cover at connection. cover at the end of the product's wire. wire coils cut connector vinyl tape. 14 3. Crimp down on the earth terminal 4. Connect it to a earth screw \*When crimping, please use crimpers or use pliers to bend and then solder together.

# Fastening the products

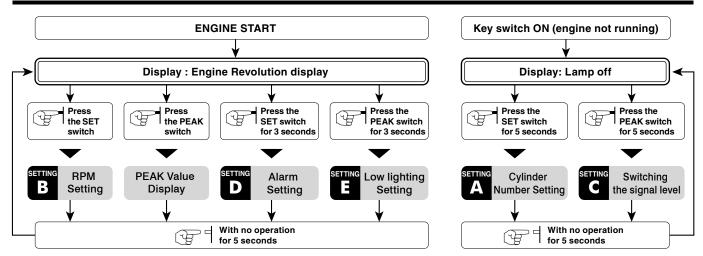


## Settings



with connecting to Orange code. If the controller is installed dark place and the light sensor of controller could not sense the change of lights, the Shift Lamp might keep low lighting.

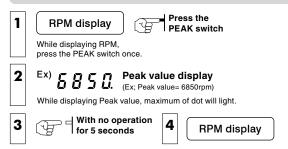
## Operation



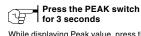
\*For details about settings see each [SETTINGS] on page 3.

## Peak Display and Reset the Peak Value

#### **Display the Peak value**



#### **Reset the Peak value**



1

While displaying Peak value, press the PEAK switch for 3 seconds to reset the Peak value and go back to RPM display.

### Troubleshooting

Trouble	Possible Causes	Possible Solutions
With the engine running the controller does not show the rpm.	Poor connection of each wire.	Please reconfirm whether wiring and connections are correct or not.
	Poor connection of OBD connector.	
	The signal detection level is not correct.	See page 3 [SETTING C] and [ECU Wiring Diagram List], make any necessary changes.
The displayed values are very different from the standard meter and others.	The cylinder setting is wrong.	Due to difference in accuracy, readings may not be the same as those on the standard tachometer. See page 3 [SETTING A] and make any necessary changes.
	The signal detection level is not correct.	See page 3 [SETTING C] , make any necessary changes.
The Shift Lamp does not light up.	The engine rpm has not reached the set shift point.	See page 3 [SETTING B] , make any necessary changes.
	Poor connection of 2-pin connector.	Please reconfirm whether wiring and connections are correct or not.
Even with the parking lights on, brightness of the shift lamp does not decrease.	Poor connection of orange wire.	Please reconfirm whether wiring and connections are correct or not.
	Poor wiring of orange wire.	Please reconfirm whether wiring and connections are correct or not.
The Shift Lamp keeps low lighting.	The controller is installed a dark place.	Please move the controller to where it can sense the change of lights.
The display of the controller is operating even when the engine has been stopped.	Noise from the car (door locks and so on) may cause it to temporarily operate.	If the operation is only temporary it is not a malfunction; but if it still causes worry cut the red wire in the OBD connector and connect it to IGN.
The auto-power window function and/or other electronic devices are re-set.	This is due to the minus terminal on the battery being disconnected.	Re-connect the minus terminal and follow re-setting instructions for any affected devices.

\* 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.

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