

USER'S GUIDE

RACING MONITOR

- SEQUENTIAL SHIFT LAMP
- DIGITAL TACHO
- WATER TEMP
- SPEED
- GEAR POSITION

RACING & ECO

Thank you for purchasing PIVOT "RM-07".
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



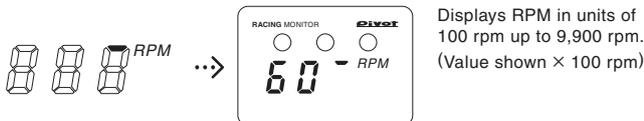
<p>CAUTION Improper use or disregard of these warnings may result in the injury or death of people.</p>			
<p>Do not work in areas where there is excessive exhaust Due to vehicle exhaust emission poisoning or fire may result in a damage to humans.</p>	<p>Do not crush the cable Please be careful that 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.</p>	<p>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</p>	<p>Do not operate while driving Operating or checking the display during driving may cause an accident; please use with the utmost consideration for safety.</p>

<p>NOTE Improper use or disregard of these warnings may cause injury to persons, damage the product and / or other things.</p>			
<p>This product is for DC12V cars; installation cannot be carried out on cars with other voltage batteries.</p>	<p>Do not, in any manner, process, take apart, or make changes to this product</p>	<p>Do not install the product in any place subject to high temperature or any place where water may be splashed</p>	
<p>Do not install the product in a place where it will cause distraction</p>	<p>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.</p>	<p>Make sure to replace all screws and parts to their original place</p>	

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.

RM-07 FUNCTIONS

1. Engine Revolution



4. Speed Display



2. Sequential Shift Lamp

At 1000 rpm before the set value the first lamp will light up, the second lamp will light at 500 rpm before the set value, and at the set value three lamps will blink. (Setting range : 2000 ~ 9900rpm)

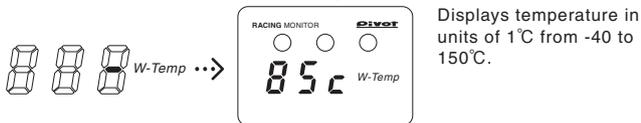


5. Gear Position Display

Digital display each gear position.



3. Water Temperature Display

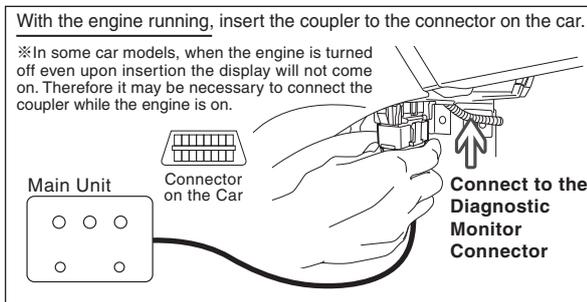


6. Other Features

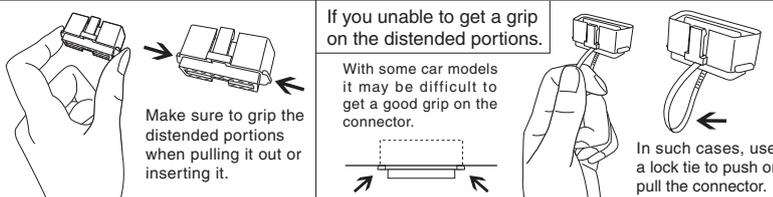
- No need for wiring**..... Coupler connection to the diagnostic connector for easy-installation.
- No Car Model Settings**..... After connection, there is absolutely no need to make any car model settings.
- Skeleton Black**..... The display shines through the skeleton black case.
- Compact Body**..... The product's compact one piece body allows for easy installation without worrying about place and position.

CONNECTING THE WIRES

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



Notes about using the OBD2 Connector.



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

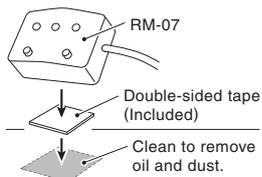
METER INSTALLATION

Install in an easy-to-view location.

- 1 Clean oil and dust from the main unit and from the area where you wish to affix it.

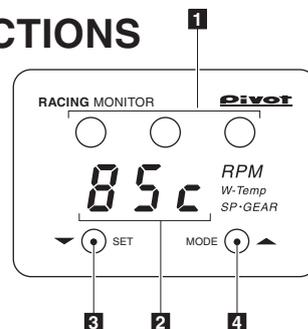
- 2 Make sure to securely affix it with the double-sided tape provided in the kit.

⚠ Do not reuse the tape; it will lose adhesiveness.



PART NAMES AND FUNCTIONS

- 1 **Shift Lamp**
Lamp comes on at set point and blinks to notify the shift point.
- 2 **Display**
Displays the setting content: RPM, Water Temp, Speed, or Gear Position.
- 3 **SET Switch (▼)**
Used for Shift Point and Shift Lamp settings.
- 4 **MODE Switch (▲)**
Used for Shift Point and Shift Lamp settings and switching the Display Mode.

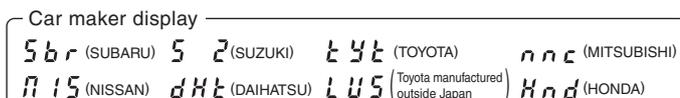


BASIC OPERATIONS AND EXPLANATION OF DISPLAYS

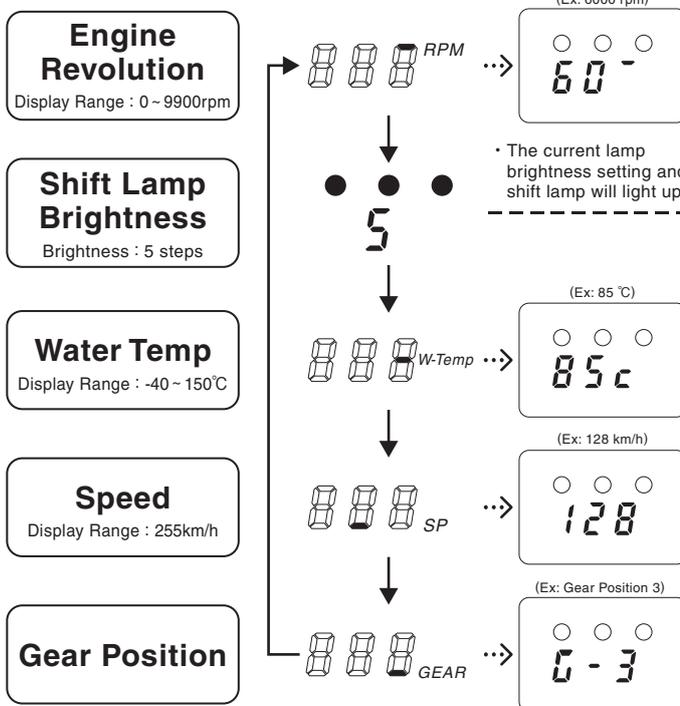
※ After installing this product, there is no need to make any car model settings.

Turn the key switch ON.

After the car maker display, the display will change to show RPM (see figure below).



The Display Mode changes by pressing the MODE switch.



About Gear Position Display

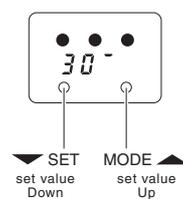
1. Because Honda, Daihatsu and Mitsubishi cars do not have a gear position output, the gear position cannot be displayed and will skip to the engine rpm display. In some other make of cars and other cars without a gear position output (Manual Transmission) the display will read **G - -**. Also note that in MT models from Subaru, the display will read **G - 1**.
2. In some car models, upon locking up the gear position the display will change to **G - -**.

⚠ About the Display Lamp

1. After installing the product, the first time the key is turned ON it may take up to 35 seconds before the display lights up.
2. From the second time on, it may take up to about 15 seconds for the display to appear.
3. It may also take up to 15 seconds for the display to turn off after the key has been switched OFF.

Shift Point settings

If the SET switch is pressed during the RPM display, the display will change to Shift Point settings.

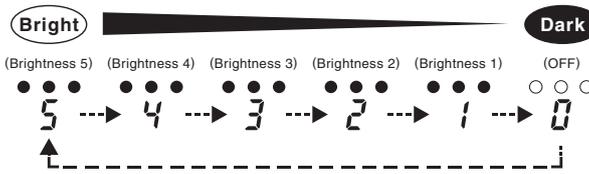


- 1 **Setting**
Using the SET and MODE switches it is possible to make RPM settings in units of 100 rpm within the range of 2000 ~ 9900 rpm.
- 2 **Setting Completed**
After three seconds of non-operation the settings will be finalized and the display will change to show RPM.

※ The shift lamp will remain activated no matter what the display mode is set for.

Shift Lamp Brightness Settings

- 1 **Setting**
Press the SET switch to make brightness settings.
Each time the switch is pressed the setting will become darker and at the end will return from 0 to 5.
- 2 **Setting Completed**
After three seconds of non-operation the settings will be finalized and the display will change to show RPM.



TROUBLESHOOTING

Please make the following checks before seeking repair.

Trouble	Possible Causes	Possible Solutions
The display does not work when the key is turned 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 Shift Lamp does not work.	The brightness setting has been set to OFF.	Set the Shift Lamp brightness to a setting other than OFF.
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.	
Something is wrong with the gear position display.	In some car models, the gear position may not be displayed properly, please check the Car Model Compatibility List. (For details about the basic operations and the how to read the display please see the section entitled "About the Gear Position Display")	