Pivot STEPPING GAUGE

USER'S GUIDE (No.3)

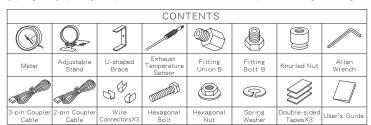
EXHAUST TEMP

Thank you for purchasing our PIVOT STEPPING GAUGE SERIES. Please read these instructions carefully before installing or using this meter

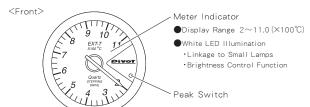
FEATURES

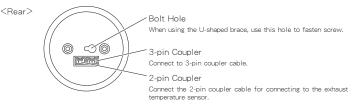
- •Microcomputer controlled stepping motor drive provides highly precise display of exhaust temperature.
- Includes highly precise exhaust temperature sensor.
- One-touch hold peak function to view highest temperature.
- Includes U-shaped brace and easy-to-install stand allows freedom in installation.
- Fasy-to-see LED white light means no hulb replacement. Includes brightness control function

[Opening Demo] By turning the key switch ON, the needle will move in a fixed pattern. (searching for the origin.)

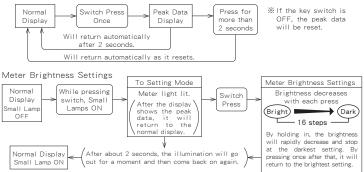


PART NAMES





SWITCH OPERATIONS SETTINGS



<If you wish to adjust several meters to match>

Peak Data Display and Reset

Decide the brightness you wish to make the standard, check how many steps away that is from the brightest (or darkest) setting.

②Adjust other meters to match the number of steps away from brightest (or darkest).

CONNECTING THE WIRES

/NOTE

- 1. For safety purposes, when working on your car always disconnect the Sbattery terminal.
- 2. Make sure that all wire and snap connectors are firmly connected and insulated. 3. Be careful when laying wires not to cause any electrical shorts or wire breakage
- BASIC WIRING ON ⊕ 12V [0]To⊕12V wire when Small Lamp ON 3-pin coupler 垣) Small Lamp RED (IGN) ORANGE (Illumination) GND BLACK (Earth) 2-pin coupler RED X /RED WHITE WHITE/ Exhaust Temperature Sensor

■ CONNECTION PROCEDURE

- 1. Connect the 3-pin Coupler Cable
- 1) Properly connect each wire and cable.

RED wire (IGN)=Connect to the wiring that carries (\bigoplus 12V) when key switch is ON.

Connect (wire crimps)

ORANGE wire (Illumination)=Connect to the wiring that carries (12V) when the Small Lamps are ON.

BLACK wire (GND)=Connect with the same screw in the steel panel that carries earth ground.

2 Connect the 3-pin coupler to the back of the meter.

⚠ NOTE

Connecting the 3-pin coupler to the water, oil, intake temperature gauge, or speed meter will result in damage or a malfunction.

- 2. Connect the 2-pin Coupler Cable
- 1 Make sure to properly connect the male end of the connectors to the female end of the connectors of the exhaust temperature sensor being careful to match the cable colors.
- (2) Connect the 2-pin coupler to the back of the meter.

METER INSTALLATION

A. Installation with U-shaped Brace

Fasten from the back of the instrument panel



1. Fastening the Hexagonal Bolt for Installing the U-shaped Brace

1 Insert the six-sided part of the hexagonal bolt into the hole at the back Bolt Hole of the case and slide it to the left.

Inside the hole to the left is a bolt lock; position the bolt so as to lock. Hexagonal Bolt

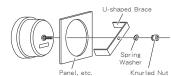
②With the bolt locked in place, screw on the hexagonal nut to tighten.



2. Installing the Meter

①Insert the meter into the front side of the panel where you wish to install it.

20n the rear side, slide the U-shaped brace onto the hexagonal bolt and securely fasten with the spring washer and the knurled nut.



B. Installation with the Adjustable Stand

Fasten to a stable place with the double-sided tape. (On top of the steering column

cover or dashboard.)



①Place the stand's holder band around the back of the meter.

NOTE; If you cannot get the band around the meter, loosen the hexagonal bolt and expand the band.



②After getting the band in place, tighten the hexagonal bolt to secure the band.

2. Installing to the Car

(1) Carefully decide installation place. (2)Bend the stand to securely fit the place of installation.

3Clean the surface; removing all oil or dust.

4)Fasten using the double-sided tape.



Double

sided Tape

Please be sure about where you wish to install the meter, as it is not advisable to reuse double-sided tape.

- NOTE -

⑤After deciding the position and angle of the meter face, fasten the hexagonal bolts on both sides to secure.

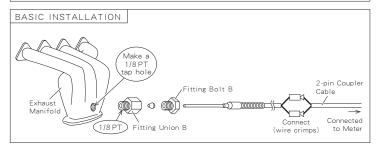


If after installing the meter, the 3-pin coupler cable is viewable and looks bad.

Tie the 3-pin coupler cable behind the meter



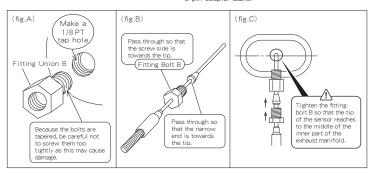
SENSOR INSTALLATION



■INSTALLATION PROCEDURE

—⚠INSTALLATION WARNING -

- When removing and installing the exhaust manifold, please follow directions for your type of model car.
- Make sure to remove or install the manifold only after allowing it to have become fully cooled down; not doing so may cause burns or injury.
- ①Detach the exhaust manifold.
- ②After having decided the position from which to measure the exhaust temperature, make a 1/8PT tap hole.
- ③Fasten a fitting union B to the middle of the bolt. (fig Δ)
- 4 Insert the tip of the exhaust sensor through the fitting bolt B. (fig.B)
- ⑤Tighten the fitting bolt B on to the bolt so that the tip of the sensor reaches to the middle of the inner part of the exhaust manifold. (fig.C)
- 6 Replace the exhaust manifold.
- ⑦After laying out the sensor cable, fasten the connectors by colors to the cable connectors of the 2-pin coupler cable.



TROUBLESHOOTING	**Please make the following checks before seeking repair.			
Trouble	Possible Causes	Possible Solutions		
The opening demo does not wor with key switched ON.	Contact failure of RED/BLACK wire.	Check the wire connections or conditions.		
Display dose not change.	Contact failure of exhaust temperature sensor. Contact failure of 2-pin coupler cable.	Check the sensor and wire connections or conditions.		
Even with the Small Lamps ON, the	Contact failure of ORANGE wire.	Check the ORANGE wire connections or conditions.		
meter light does not come on.	The brightness is set at the darkest setting.	Make any necessary change to brightness.		
The illumination color is slightly different from other meters.	Itly different from other rs. This is due to a variance in the LED and is not a malfunction. Please be aware that we cannot perfectly match the color. This is a characteristic of the stepping motor and is not a failure or needle stops at the key. This is a characteristic of the stepping motor and is not a failure or breakdown. If after the opening demo with the key ON (the engine			
The needle stops at the ke OFF position.				

HOW TO USE THE WI	TO USE THE WIRE CONNECTORS XIf sol		dering is possible, please do so.
Peel off about 10mm of the vinyl cover at connection point.	Peel off about 10mm of the vinyl cover at the end of the product's wire.		**Use a crushing tool to press the wire connector. If you do not have such a tool, use pliers or such to fold and crush the connector together for a secure contact.
Twist the uncovered wires.	Close tightly with wire conn	ector.	*After covering, make sure to insulate properly with vinyl tape.

PIVOT CORPORATION

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