

Pivot STEPPING GAUGE

OIL TEMP SG-OT/OTG

USER'S GUIDE (No.003)

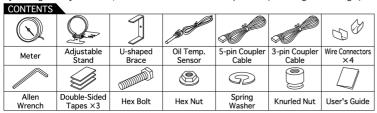
Thank you for purchasing our PIVOT STEPPING GAUGE SERIES.
Please read these instructions carefully before installing or using this meter.

SG-OT/OTG Features

- •Microcomputer controlled stepping motor drive provides highly precise display of oil temperature.
- •Includes highly precise oil temperature sensor.
- One-touch hold peak function to view highest temperature. ●Includes U-shaped brace and easy-to-install stand allows freedom in installation,
- ●White LED Illumination (SG-OT). Blue LED Permeating Illumination (SG-OTG).

[Opening Demo]

By turning the key switch on, the needle will move in a fixed pattern. (searching for the origin)



PART NAMES AND OPERATIONS



METER INDICATOR

- Display Range 50~150°C Lamp
- ·OT=White LED Illumination
- ·OTG=Blue LED Permeating Illumination
- ·Linkage to Small Lamps ·Brightness Control Function



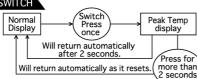
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[SG-OTG]

The operation method of a PEAK SWITCH

Use to display the peak temperature

%If the key switch is OFF. the peak data will be re-set.



<REAR> OT/OTG commn

Bolt Hole When using the Ushaped brace, use this hole to fasten screw.

 \leq 3-pin coupler Connect the 3-pin couple cord for connecting to the

5-pin coupler Connect to 5-pin coupler cable.

oil temperature sensor.

Meter Brightness Setting Adjustor

Set meter brightness with the small lamps ON.

Bright ← 16 steps → Dark

The adjustor goes around

with no notches.

- <If you wish to adjust several meters to match>
- 1) Decide the brightness you wish to make the standard, check how many steps away that is from the brightest (or darkest) setting.
- 2 Adjust other meters to match the number of steps away from brightest (or darkest).

Adjust by turning with a narrowly pointed \oplus screwdriver, being careful not to push too hard.

	Troubleshooting		
	Trouble	Possible Causes	Possible Solutions
	The opening demo does not work with key switched ON.	Contact failure of RED wire(IG⊕12V).Contact failure of BLACK wire (GND).	
	The oil temp display does not change.		Check the wire connections or conditions.
	Even with the small lamps ON, the meter light does not come on.	Contact failure of ORANGE wire (Small lamps ON⊕12V).	Check the wire connections or conditions.
		The brightness is set at the darkest setting.	Turn the adjustment switch to the left to adjust the brightness.
	The illumination color is slightly	This is due to a variance in the LED and is not a malfunction.	

different from other meters.

The needle stops at the key OFF position.

Twist the uncovered

Please be aware that we cannot perfectly match the color

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 oil temp display reads correctly (under 50°C the display reads 50°C) the meter is working properly.

How to use the Wire Connectors

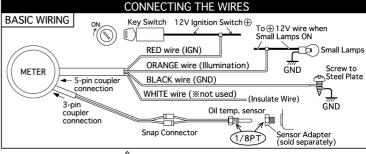


Close tightly with wire

- * If soldering is possible, please do so.
- *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.
- XLoose connections can cause wire to come apart. so please make sure the connection is secure.

Be sure to insulate and ٦ secure with vinyl (-electrical tape





🚹 INSTALLATION WARNING

- 1. For safety purposes, when working on your car always disconnect the ⊖ battery terminal (re-connect to check for power).
- 2. Make sure that all wire and snap connectors are firmly connected and insulated. . Be careful when laying wires not to cause any electrical shorts or wire breakage

CONNECTION PROCEDURE

1. Make sure to properly connect each of the wires from the 5-pin coupler and then connect the 5-pin coupler to the back of the meter.

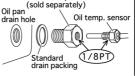
RED wire(IGN) = Connect to the wiring that carries (\oplus 12V) when key switch is ON. ORANGE wire(Illumination)= Connect to the wiring that carries (\oplus 12V) when the small lamps are ON.

BLACK wire(GND)= Connect to a screw near the steel plate that carries earth.

2. Install the oil temperature sensor.

you may need a sensor adaptor. (Sensor connector 1/8 PT=sold separately)

A Oil Pan Dran Hole installation Sensor adapter for drain hole (sold separately)



-<u>∕</u>Î WARNING

For cars chassis that are low to the ground or in cases where road conditions may be poor, please do not use this type of installing the poor of the conditions that the poor that the condition of the conditions are the con lation. It may lead the sensor to bump against e ground and break or damaged.

sensor screw is to prevent leakage; please screw on the adapter as is.

√ NOTE ABOUT SENSOR

The white tape around the

Oil temp. sensor <1/8PT)

B Oil Element installation Engine oil element connection Oil element adanter (Sold Separately)

♠ INSTALLATION WARNING

- Be sure to securely connect the sensor adapter so as to prevent any leakage, and periodi-cally check for leakage.
- Carefully select the angle of the sensor adapter before you connect the sensor or the wire so as not to cause any sudden or drastic twists or bends.
- Be careful not to carry out this installation while engine is hot; it may result in burns or in-jury. Make sure engine has sufficiently cooled down before attempting installation.
- 3. Use the 3-pin coupler cable to connect the oil temperature sensor to the meter.
- ① Pull the 3-pin coupler cable with the male/female wire connector to the engine room by way of a car harness grommet.
- ②Make sure to firmly connect the wires coming from the oil temperature sensor to the proper wire connectors

⚠ NOTE

Make sure the snap connector is firmly connected. In particular make sure the male side, which is the cover, is firmly inserted and screwed into the female side.



③Use the 3-pin coupler cable to connect the oil temperature sensor to the meter.

⚠ NOTE

Connecting the 3-pin coupler from the boost, vacuum, oil pressure, exhaust temperature gauge, or G meter will result in damage or a malfunction.

METER INSTALLATION

A Installation with U-shaped Brace

Fasten from the back of the instrument panel.



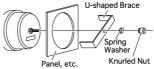
1. Fastening the Hexagonal Bolt for Installing the U-shaped Brace

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

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

2 With the bolt locked in place, screw on the hexagonal nut to tight-Hexagonal Nut

- 2. Installing the Meter
- ①Insert the meter into the front side of the panel where you wish to install it.
- (2)On 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.)

1. Installing the Adjustable Stand 1) Place the stand's holder

band around the back of the meter.

NOTE; If you cannot get the band around the meloosen the hexagonal bolt and expand the band.



DEC.

Holder Band

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

2. Installing to the Car

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

3 Clean the surface; removing all oil or dust. Fasten using the double-

Doubl sided Tape Clean to

remove oil & dust sided tape. Please be sure about where you wish to install the meter, as it is not advisable to reuse doublesided tape.

SAfter deciding the position and angle of the meter face, fasten the hexagonal bolts on both sides



If after installing the meter, the 3-pin coupler cable is viewable and looks bad, ⇒Tie the 3-pin coupler cable behind the meter with the zip tie.



Hexago nal Bolt

PIVOT CORPORATION

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