

Pivot

STEPPING GAUGE

WATER TEMP-X SG-WTX/WTXG

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-WTX/WTXG Features

- •Microcomputer controlled stepping motor drive provides highly precise display of water temperature. •Includes highly precise water 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(WTX). Blue LED Permeating Illumination(WTXG).

[Opening Demo]

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



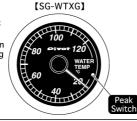
PART NAMES AND OPERATIONS

<FRONT: [SG-WTX]

90 100 110 WATER-T 120 70 40 30

METER INDICATOR

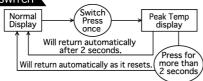
- ◆ Display Range 20 ~ 120℃
- · WTXG = Blue LED Permeating Illumination
- Linkage to Small LampsBrightness Control Function



The operation method of a PEAK SWITCH

Use to display the peak temperature and for re-setting.

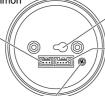
※If the key switch is OFF, the peak data will be re-set.



<REAR> WTX/WTXG common

3-pin Coupler

Connect the 3-pin coupler cable for connecting to the water temperature



Bolt Hole

When using the U-shaped brace, use this hole to fasten screw.

5-pin Coupler

Connect to 5-pin coupler cable

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.

	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 water temp display does not change.	Contact failure of 2-pin coupler cable from water temperature sensor. Contact failure of 3-pin coupler.	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.
	ment 100 to 10 to	This is done to a considerate in the LED and its contract and if manifests	

The illumination color is slightly different from other meters

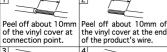
This is due to a variance in the LFD and is not a malfunction Please be aware that we cannot perfectly match the color.

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The needle stops at the key OFF position.

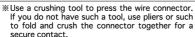
This is a characteristic of the stepping motor and is not a failure or breakdown. If after the opening demo with the key ON, the water temp display reads correctly (under 20°C the display reads 20°C) the meter is working properly

How to use the Wire Connectors



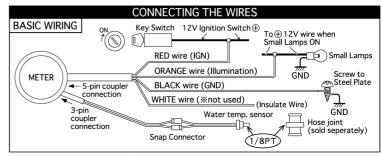


* If soldering is possible, please do so.



secure contact X Loose connections can cause wire to come apart,

so please make sure the connection is secure. Be sure to insulate and 6 secure with vinyl electrical tape.



✓!\ INSTALLATION WARNING

- For safety purposes, when working on your car always disconnect the \ominus battery terminal (re-connect to check for power).
- 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.

CONNECTION PROCEDURE `

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

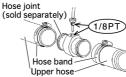
are ON. BLACK wire(GND)=Connect with the same screw (body earth) in the steel panel that carries

2. Install the water temperature sensor

Install the water temperature sensor connecting the hose joint (with 1/8 PT hole=sold separately) to the upper hose of the radiator. (If the screw size is different, please use and adaptor to suit size.)

① Cut the upper radiator hose at a suitable spot. Water coolant will spill out, so prepare replacement coolant. Cut Upper hose Ò Ó

② Fit the hose band onto the cut hose and securely connect the cut hose to the hose joint with the hose band, so as no leakage will occur. Hose joint



NOTE ABOUT SENSOR

The white tape around the sensor screw is to prevent leakage: please screw on the adapter as is.



- INSTALLATION WARNING

- 1. Be sure to securely connect the hose joint so as to prevent any leakage, and periodically check for leakage
- 2. Carefully select the angle of the hose joint 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 water 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.
- @Make sure to firmly connect the wires coming from the water temperature sensor to the proper wire connectors.

✓!\ NOTE

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



3) Use the 3-pin coupler cable to connect the water 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

Fasten from the back of

the instrument panel.



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

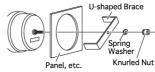
A Installation with U-shaped Brace

Olnsert the six-sided part of the hexagonal bolt into the hole at the back of the case and side it to the left. and slide it to the left.

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

②With the bolt locked in // place, screw on the hexagonal nut to tightthe Hexagonal Nut

- 2. Installing the Meter
- (1) Insert 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 c umn cover or dashboard.)



1) Place the stand's holder band around the back of 0

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

Hexagonal Bolt with Washer

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

2. Installing to the Car

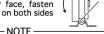
(1) Carefully decide installation place. ②Bend the stand to securely fit the

place of installation. 3 Clean the surface; removing all oil or dust.

Double-sided Tape 4 Fasten using the double-Clean to sided tape.

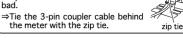
remove oil & dust Please be sure about where you wish to install the meter, as it is not advisable to reuse doublesided tape.

Shafter 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.

the meter with the zip tie.



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