

WATER TEMPERATURE GAUGE INSTRUCTIONS



The following instructions are for the installation of your Elite 10 Color Series Water Temperature Gauge. Before you begin, lay out all items and ensure there are no missing parts. If any items are missing, please STOP immediately and contact GlowShift Gauges.

WHAT'S INCLUDED

- Water Temperature Gauge
- 1/8-27 NPT Water Temp Sensor
- 8ft Sensor Harness
- 2ft Power Harness
- 1ft Daisy Chain Harness
- Gauge Visor and Dashboard Pod

WIRE SCHEMATIC

Red: 12v Constant (un-switched) Source (+)

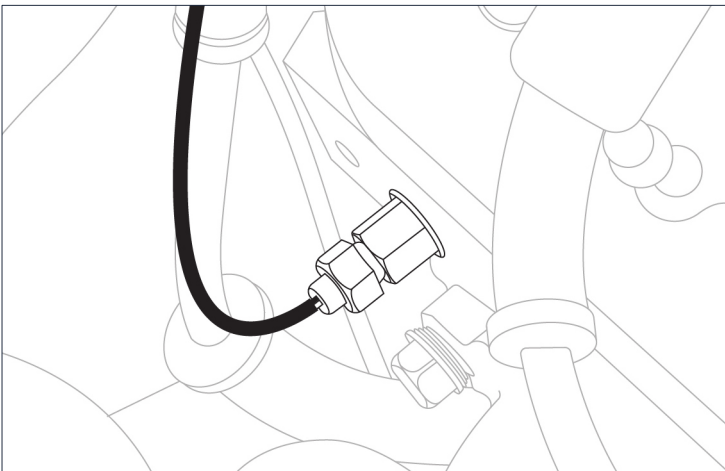
White: 12v Ignition (switched) Source (+)

Orange: 12v Dimmer (switched) Source (+)

Black: Vehicle/Engine Ground (-)

⚠ WARNING

Disconnect negative battery terminals before starting any work on the vehicle.



1. There are several different ways to connect a Water Temperature Gauge in your vehicle.

Note: In some cases an adapter is needed to adapt the 1/8-27 NPT Sensor. If you install the sensor after the vehicle's thermostat, the gauge will not display a reading until the vehicle thermostat has been opened.

Coolant Fluid Port: Identify a coolant fluid port located on your engine and remove the port plug. Install the water temperature sensor into the coolant port. Additional adapters may be required if the coolant port is not threaded to 1/8-27 NPT.

Stock Sensor Location: Use a T-fitting to "T" off your stock sensor location. This will allow you to keep the stock sensor installed, while also providing the ability to install the GlowShift Temperature Sensor.

Note: Disconnect negative battery terminals before starting any work on the vehicle.

Water Temp Adapter: Please visit www.GlowShift.com for available adapters including Thread Adapters and T-Fittings.

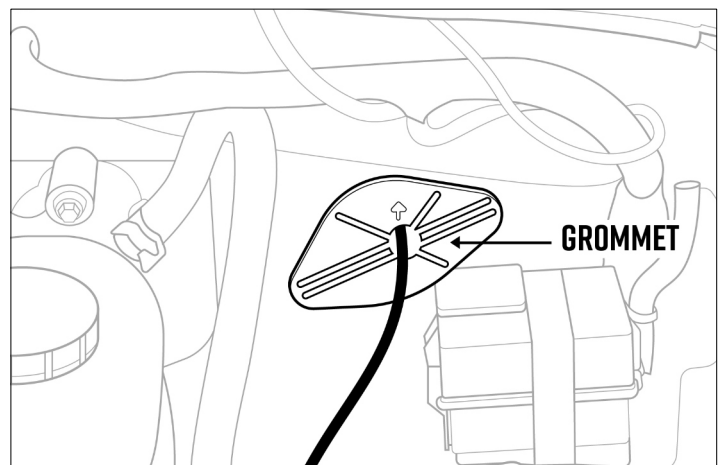
2. To install the Water Temperature Sensor, start by applying Teflon tape on the Water Temperature Sensor threads. Install the 1/8-27 NPT Water Temperature Sensor to your vehicle's system using

one of the above methods that works best for your application. Tighten the sensor using a **14mm wrench**.

3. Plug the Water Temperature Sensor Harness into the Water Temperature Sensor and route it through the engine bay and through the firewall, keeping it clear of any moving parts and heat sources.

Note: Be sure to use a grommet when routing the Water Temperature Sensor Harness through the firewall to protect it from being cut or damaged. If one is not available you will need to drill a hole and install a grommet.

4. Plug the Water Temperature Sensor Harness into the back of the Water Temperature Gauge.



5. Before starting the engine, be sure to refill/replace any coolant lost during the installation process to the manufacturer's specifications.

GAUGE WIRING

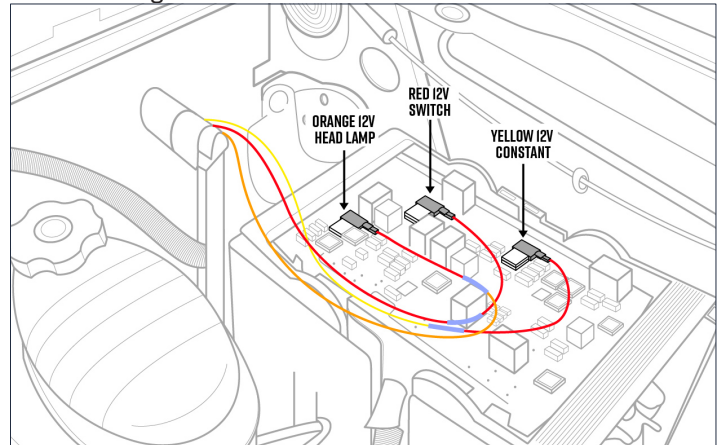
1. With your Water Temperature Sensor Harness connected, plug in the power harness and place the gauge in the mounting location.
2. In order to test for power, reconnect the Negative Battery Terminal.

3. It may be necessary to remove the Vehicle Trim and/or Kick Panels in order to gain access to the vehicle's Fuse Box.
4. Using a test light, locate a constant 12-volt power source in the vehicle's fuse panel that receives 12 volt power when the ignition is turned off. You can splice into the circuit or use an optional Expandable Circuit. Connect the **Red Wire** of the gauge to the Constant 12-volt power source.

Note: Automotive grade 18- 20 gauge wire and proper splice connectors are required when extending any of the power wires.

5. Repeat the same step for the **White Wire** of the gauge to locate an Ignition Switched 12-volt power source. This source should not have any power with the key turned off and have 12 volts with the key turned on.
 6. Connect the **Orange Wire** of the gauge to the positive Headlight Switch Power Source using a Splice Connector at the headlight switch. You can also use an Expandable Circuit and install into the fuse box if you have a fuse available. This will allow the gauge face to dim 30% when the headlights are turned on.
- Note:** Make sure that the connection source does not dim. If the voltage is reduced when you lower the Dimmer Wheel it will cause the gauges to flash from not having enough voltage.
7. Locate a clean, reliable grounding source and connect the **Black Wire** from the gauges.
 8. After all wiring is complete, turn the vehicle's key to the "On" position and confirm that your gauge illuminates.

9. Turn on the headlights to ensure the gauge is dimming.



10. Start the vehicle and check for leaks.
11. Reinstall any panels that may have been removed.
12. Test drive your vehicle to ensure the gauge is functioning properly.
13. **Daisy Chain Feature (Optional):** If you are installing more than one Elite 10 Color Gauge, you can use the daisy chain feature to power up to 4 additional gauges. Simply plug the included daisy chain wire into the gauge that is already powered (**port B**); then plug the other end of the wire into the daisy chain port on the next gauge.



OPERATING INSTRUCTIONS

10-COLOR MODE:

1. Press the **COLOR** button to cycle between the 10 different color options.
2. The sequence of display colors are: Blue, Green, Red, Yellow, White, Light Blue, Purple, Pink, Orange, Amber. After Amber there are 2 automatic color changing functions on the gauge that begin with the color Blue. They are the 10 Color Cycle Mode and the 10 Color Slow Fade Mode.

SETTING THE PEAK RECALL:

1. Press the **SET** button on the front of the gauge to recall your last peak value and enter into the peak setting mode. The word **PEAK** will turn blue when you are in the peak recall setting mode
2. Once the peak value is displayed, press the **COLOR** button to clear the previous peak value. When the Peak Blue LED is not flashing, the gauge is operating in normal mode.

SETTING THE HIGH-WARNING MODE:

1. Press and hold the **COLOR** button for 5 seconds to enter the High-warning setting mode.
2. When the needle is flashing and the warning light is on, you can now program the High-Warning Mode Value. Pressing the **COLOR** button will move the needle clockwise while pressing the **SET** button will move the needle counter-clockwise.
3. Holding either the **COLOR** button or the **SET** button will move the needle in major increments in the button's respective direction.

4. After 5 seconds of no button activity, the gauge will return to its normal operating mode.
5. To turn the warning sound on for this mode, turn the gauge off. While holding the **COLOR** button, turn on the gauge until you hear a single beeping sound. Repeat to turn off.

LOW-WARNING MODE:

1. Hold the **SET** button for 5 seconds to enter into the Low-warning setting mode.
2. When the needle and warning light are flashing, you can now program the Low-Warning Mode Value. Pressing the **COLOR** button will move the needle clockwise while pressing the **SET** button will move the needle counter-clockwise.
3. Holding either the **COLOR** button or the **SET** button will move the needle in major increments in the button's respective direction.
4. After 5 seconds of no button activity, the gauge will return to its normal operating mode.
5. To turn the warning sound on for this mode, turn the gauge off. While holding the **SET** button, turn on the gauge until you hear a single beeping sound. Repeat to turn off.

KEY SOUND MODE:

1. To hear the key sound when either button is pressed, turn the gauge off.
2. Hold the **COLOR** and **SET** buttons at the same time and then turn on the gauge until you hear two beeping sounds. The Key Sound Mode is now activated.
3. Holding the **COLOR** and **SET** buttons at the same time and then turning off the gauge will deactivate this setting.

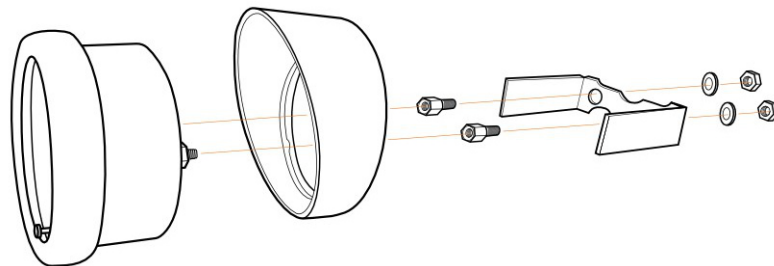
ADDITIONAL INSTALLATION INFORMATION & MATERIAL REQUIREMENTS

GlowShift Gauges Approved Conductor Wires: Successfully installing GlowShift Gauges may require lengths of wire (sizes and quantity depend on vehicle, gauge type, gauge location and / or sensor location). For correct and proper GlowShift Gauge installation and operation, the use of 18 Gauge (wire diameter) automotive grade conductor wire with sheathing is recommended for one or more gauges per vehicle. When installing and routing wires from the engine compartment, to inside the vehicle cabin, always employ the use of a rubber grommet. This will prevent and deter the stripping of power supply or sensor wires that are necessary to deliver critical statistics about the engine to your GlowShift engine monitoring instruments. Please note not to use wire nuts to fasten or bound vehicle, gauge or sensor wiring. Always make sure to use securing crimp connectors or solder individual wire junctions together for optimum gauge installation and operation.

GlowShift Gauges Approved Installation Accessories: GlowShift Gauges may require the installer or user to provide additional products, accessories or adapters for the correct installation and operation of a gauge or sensor, as per GlowShift Installation Instructions. When installing and routing hoses to or from the engine compartment, to inside the vehicle cabin, always employ the use of a rubber grommet. This will prevent and deter the stretching or pinching of hoses that are necessary for delivering critical statistics about the engine to your GlowShift engine monitoring instruments.

GlowShift Gauges Installation Instructions: Installation documents are solely to provide a guide for individuals that are mechanically and electronically able to install products. If you are unsure about the correct procedure of installation for a product or device, you should consult a professional mechanic or an Authorized GlowShift Installer.

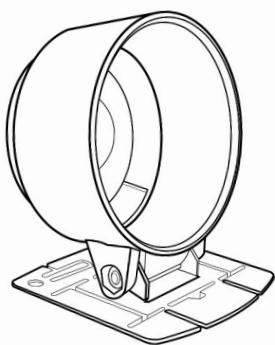
GAUGE VISOR



- The supplied optional gauge visor is intended to be placed on the gauge so that the thickest part is at the top, creating a cover over the gauge to help keep sun glare off of the gauge face.
- The included mounting bracket is designed to be used on a flat universal-style mount in order to keep the gauge secure. In some cases one or both legs of the bracket may need to be modified to fit the thickness and contour of the mount.
- Our A-pillar gauge pods do not require the use of the mounting bracket but can be used if you desire, and there is enough space to fit it between the gauge and the gauge pod. When installing the bracket onto the gauge, make sure not to over-tighten as it could pull the rear studs on the back of the gauge and damage it.

DASHBOARD GAUGE POD

- The included Single Dash Gauge Pod is designed to hold a 2-1/16" (52mm) gauge and mounts to your car or truck's dashboard or another flat surface in the vehicle.





ONE YEAR NON-TRANSFERRABLE LIMITED WARRANTY & DISCLAIMER

GlowShift Gauges, LLC ("GlowShift") warrants to the original retail consumer purchaser, and not any other purchaser or subsequent owner, that this Product will be free from defects in material or workmanship for a period of **one (1) year** from the purchase date.

For a period of **one (1) year** from the date of purchase, at no charge to the Purchaser, GlowShift will repair or replace this Product if it is determined by GlowShift to be defective. After the warranty period, the Purchaser must pay all charges for parts and labor.

Coverage under this warranty is only valid within the United States, including its territories, as well as in certain other countries. Purchasers should check our website, www.GlowShift.com, to determine the warranty coverage in the countries in which they are located.

GlowShift does **not warrant the installation** of the Product, which is the sole responsibility of the Purchaser. Installation should be done by licensed professionals. Improper installation may cause damage to the Product and any vehicle in which it is installed, and may cause burns and electrical injury to individuals. GlowShift's warranty does not cover any expenses incurred in removing Products that are defective or reinstalling replacement Products in their place.

During the warranty period, to have the Product repaired or replaced, the Purchaser must return the Product, freight prepaid by the Purchaser, to GlowShift (but for customers in the contiguous United States, GlowShift will pay the shipping charges if any Product fails during the first sixty (60) days after purchase). The Product must be returned in its original carton or in a similar package affording an equal degree of protection. GlowShift will return the repaired or replaced Product, freight prepaid, to the Purchaser. GlowShift does not provide Purchasers with temporary replacement units during the warranty period or at any other time.

This limited warranty is non-transferrable and will automatically terminate if the original retail consumer purchaser resells the Product or transfers the vehicle in which the Product is installed. An "original retail consumer purchaser" is a person who originally purchases the Product, or a gift recipient of a new Product that is in its original packaging and unopened.

This limited warranty is subject to all of the following terms and conditions:

TERMS & CONDITIONS

1. **NOTIFICATION OF CLAIMS; WARRANTY SERVICE:** If Purchaser believes that a Product is defective in material or workmanship, written notice with an explanation of the claim shall be given promptly by Purchaser to GlowShift. All warranty claims must be made within the warranty period, and any Products returned to GlowShift must be shipped in accordance with GlowShift's procedures (including use of RMA numbers supplied by GlowShift after notification). The repair or replacement of any Product or part thereof shall not extend the original warranty period. The specific warranty on the repaired part only (not including gauge sensors) shall be in effect for a period of ninety (90) days following the repair or replacement of that part, or the remaining period of the Product warranty, whichever is greater. GlowShift does not provide a warranty on replacement gauge sensors.

2. **EXCLUSIVE REMEDY; ACCEPTANCE:** Purchaser's exclusive remedy and GlowShift's sole obligation is to supply (or pay for) all labor necessary to repair any Product found to be defective within the repair or replacement fails to remedy the defect. Purchaser's failure to make a claim as provided in paragraph 1 above or continued use of the Product shall constitute an unqualified acceptance of such Product and a waiver by Purchaser of all claims thereto.

3. **EXCEPTIONS TO LIMITED WARRANTY:** GlowShift shall have no obligation to Purchaser with respect to any Product that is subjected to any of the following: abuse, improper use, negligence, accident, modification, failure to follow the operating procedures outlined in the user's manual, failure to follow the maintenance procedures in the service manual for the Product, attempted repair by non-qualified personnel, operation of the Product outside of the published environmental and electrical parameters, or if the Product's original identification (trademark, serial number) markings have been defaced, altered, or removed. GlowShift excludes from warranty coverage Products sold AS IS and/or WITH ALL FAULTS. GlowShift also excludes from warranty coverage any consumable items such as fuses and batteries.

All software and accompanying documentation furnished with, or as part of the Product is furnished "AS IS" (i.e., without any warranty of any kind), except where expressly provided otherwise in any documentation or license agreement furnished with the Product.

4. **PROOF OF PURCHASE; REGISTRATION:** The Purchaser's dated bill of sale must be retained as evidence of the date of purchase and to establish warranty eligibility. Registration of any Product or of this limited warranty is voluntary, and failure to register will not diminish any rights available under this warranty.

DISCLAIMER OF WARRANTY

EXCEPT FOR THE FOREGOING WARRANTIES, GLOWSHIFT HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY WITH REGARD TO ANY CLAIM OF INFRINGEMENT THAT MAY BE PROVIDED IN SECTION 2312(3) OF THE UNIFORM COMMERCIAL CODE OR IN ANY OTHER STATE STATUTE.

LIMITATION OF LIABILITY

THE LIABILITY OF GLOWSHIFT, IF ANY, AND PURCHASER'S SOLE AND EXCLUSIVE REMEDY FOR DAMAGES FOR ANY CLAIM OF ANY KIND WHATSOEVER, REGARDLESS OF THE LEGAL THEORY AND WHETHER ARISING IN TORT OR CONTRACT, SHALL NOT BE GREATER THAN THE ACTUAL PURCHASE PRICE OF THE PRODUCT FOR WHICH SUCH CLAIM IS MADE. IN NO EVENT SHALL GLOWSHIFT BE LIABLE TO PURCHASER FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION, REIMBURSEMENT OR DAMAGES ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS OR FOR ANY OTHER REASON WHATSOEVER.

GOVERNING LAW: This non-transferrable limited warranty shall be governed by the law of the State of New Jersey, U.S.A., and the United States of America, excluding their conflicts of laws principles. The courts of Camden County, New Jersey, shall have the exclusive jurisdiction over any legal action with respect to this warranty.

This limited warranty gives specific legal rights. You may also have other rights that may vary from state to state or from country to country. Some states or countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you. You are advised to consult applicable state or country laws for a full determination of rights.