Exhaust Temperature Gauge Instructions

The following instructions are for the installation of your Exhaust 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

- Exhaust Temperature Gauge
- 1/8-27 NPT K-Type Exhaust Temperature Probe w/ 3ft wire
- 6ft Sensor Harness
- 2ft Power Harness
- Visor and Mounting Bracket

Wire Schematic

Yellow: 12v Constant Source (+)
Red: 12v Ignition Switched Source (+)
Orange: 12v Headlight Switched Source (+)
Black: Vehicle/Engine Ground (-)

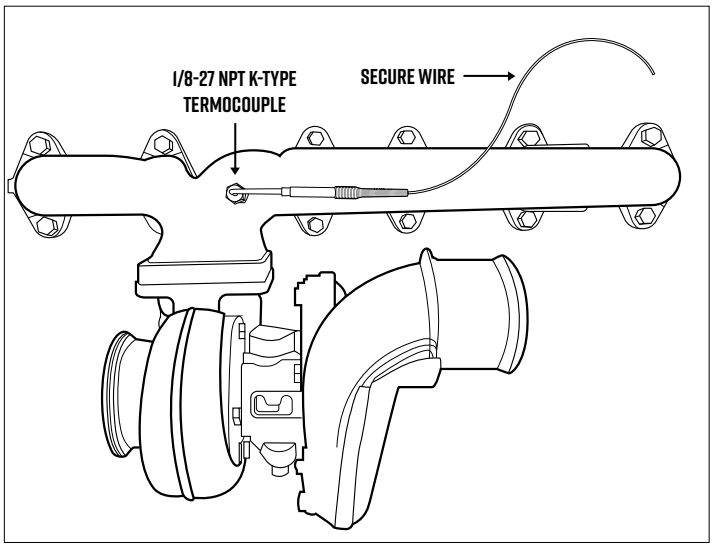
WARNING **Disconnect negative battery terminals before starting any work on the vehicle.**

Exhaust Gas Temperature (EGT) Gauge

We recommend installing the probe pre-turbo for the most accurate reading. Locate a flat portion on the Exhaust Manifold. Make sure to find a location on the manifold where all cylinders flow into one before the turbo.

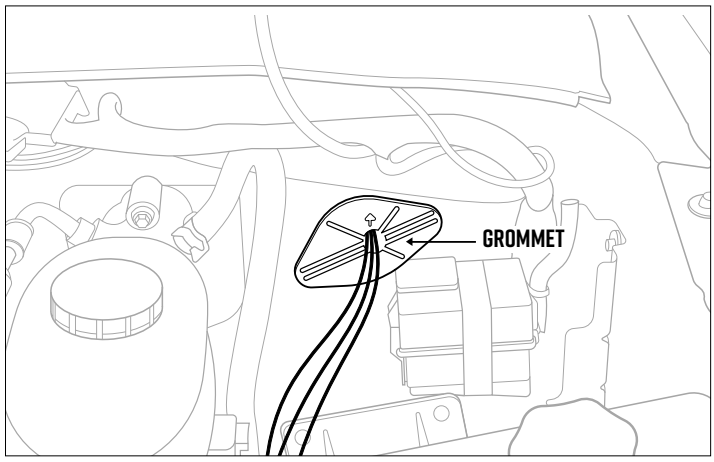
1. Use a punch to mark the location for drilling. Some vehicles may require removal of the Inner Fender Well, or to be raised by a lift for easier access.

   Note: Some aftermarket Exhaust Manifolds may already include Exhaust Probe Ports, eliminating the need for drilling.



2. Starting with a **1/8" Drill Bit** drill a hole at the marked location stepping up to a size **"R" Drill Bit**.
3. Use Cutting Oil to tap the drilled hole to 1/8-27 NPT. Take caution while tapping and tap a little at a time, backing the tap up clearing any shavings that could possibly get in the way.
4. When you are done tapping, clean out all of the shavings inside the manifold or pipe using a magnet and a shop vacuum.
5. Brush Silver Grade Anti-Seize onto the threads of the Exhaust Temperature Probe Fitting and thread into the tapped hole. Tighten using a **14mm wrench**.
6. Install the Exhaust Temperature Probe into the manifold ensuring the tip of the probe is roughly halfway inside the manifold and tighten using a **14mm wrench**.
7. Plug the Exhaust Temperature Sensor Harness into the Exhaust Temperature Probe Connector.
8. Route the Exhaust Temperature Sensor Harness through the engine bay, through the firewall, using a grommet, keeping it clear of any moving parts, heat sources, and kinks.

   Note: Be sure to use a grommet when routing the wire 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.
9. Plug the Exhaust Temperature Sensor Harness into the back of the exhaust temperature gauge.



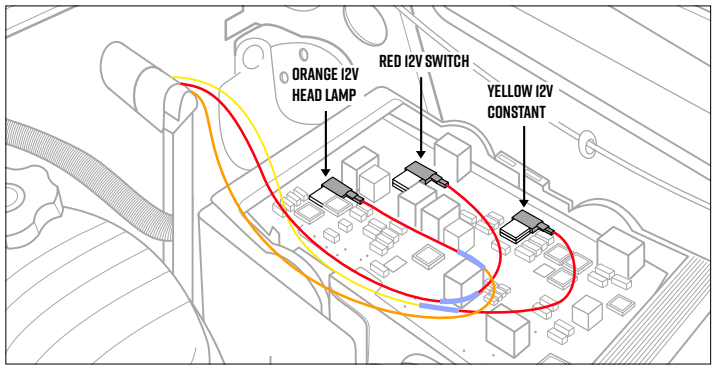
Gauge Wiring

Note: It is required to use an automotive grade 18-20 Gauge Wire and proper Splice Connectors while extending any of the Power Wires.

1. In order to test for power, reconnect the Negative Battery Terminals.
2. It may be neccessary to remove Vehicle Trim and/or Kick Panels in order to gain access to the vehicle's Fuse Box.
3. Using a test light, locate a Constant 12-volt Power Source in the vehicle's fuse panel that recieves 12-volt Power when the ingnition is turned off. You can splice into the circuit or use an optional Expandable Circuit, connect the **Yellow Wire** of the gauge to the Constant 12-volt Power Source.
4. Repeat the same step for the **Red Wire** of the gauge to locate an Ignition Switch 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.
5. Connect the **Orange Wire** of the gauge to the Positive Headlight Switch Power Source using a Splice Conncetor or Expandable Circuit either in the Fuse Box or at the switch itself in order to have the gauge face dim 30% when the Headlights are turned on.

   Note: Make sure that the connection source is not adjustable. If the voltage is reduced when you lower the Dimmer Wheel it will cause the gauges to flash from not having enough voltage.

6. Locate a clean, reliable grounding source and connect the **Black Wire** from the gauge.



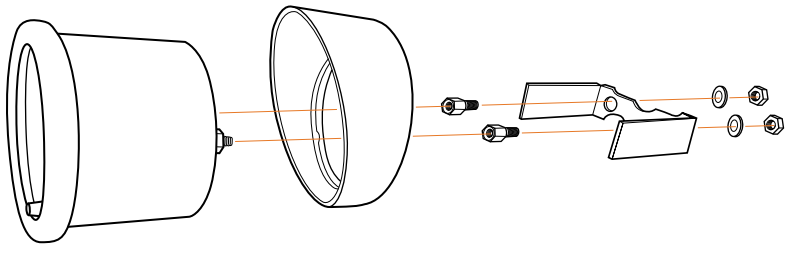
7. After all wiring is complete, turn the vehicle's key to the "On" position and ensure your gauges illuminate.

   Note: If your gauge does not illuminate or recall your last saved color, your Switched and Constant Sources are reversed.

   If your gauge only illuminates red, then the **Yellow Wire** for the Constant Source is not connected to a good Constant 12-volt Source.

8. Press the **COLOR** Changing Button on your gauge and scroll through the 7 Color options as well as a Color Change and a Color Fade option, allowing you to have the Gauge Face change between all of the colors automatically.
9. Turn on the headlights to ensure that the gauges are properly dimming.
10. Start vehicle and check for leaks at the Exhaust Temperature Probe.
11. Reinstall any panels that may have been removed.
12. Test drive your vehicle to ensure your gauge is functioning properly.

Additional Information



- 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.
- 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, you should consult a licensed professional.

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 thirty (30) 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 nontransferrable 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 nonqualified 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 nontransferrable 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.