

10 Color Dual Digital Transmission Pressure and Temperature Combo Gauge



The following instructions are for the installation of your Transmission Pressure and Temperature Combo 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

- Transmission Pressure and Temperature Combo Gauge
- 400 PSI Electronic Transmission Pressure Sensor
- 1/8-27 NPT Transmission Temperature Sensor
- Power & Sensor Harnesses
- Mounting Bracket
- Gauge Visor

Wire Schematic

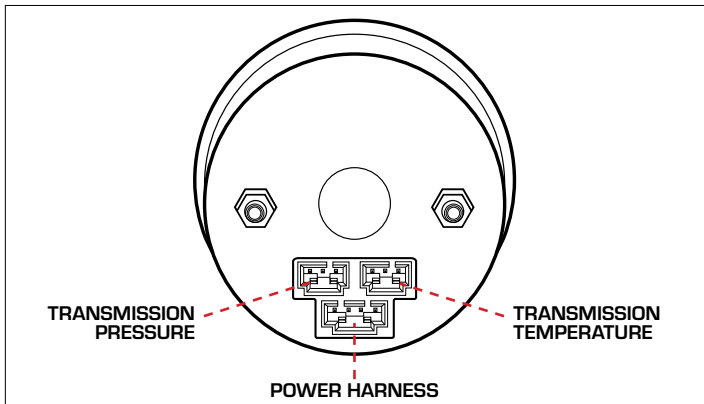
Yellow: 12v Constant Source (+)

Red: 12v Ignition Switched Source (+)

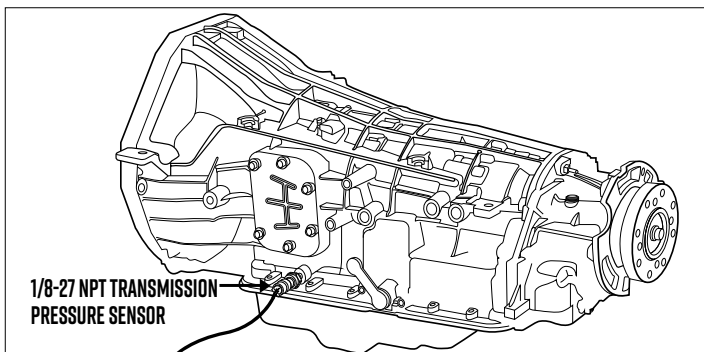
Orange: 12v Headlight Switched Source (+)

Black: Vehicle/Engine Ground (-)

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



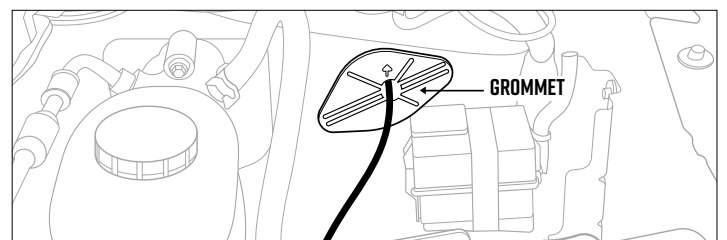
Automatic Transmission Pressure Sensor Installation



- There are three common types of Transmission Pressure Sensor installations. MaxTow recommends installing the sensor to a Test Port, Stock Sensor Location, or Cooler Line. If the thread size does not match, a Thread Adapter is required:
 - Transmission Test Port:** Most vehicle transmissions come equipped with a Test Port Location. This may be located on either the driver or passenger side of the transmission, usually inline with the pump. Note: Verify that the test port threads are 1/8-27 NPT or an adapter will be needed.

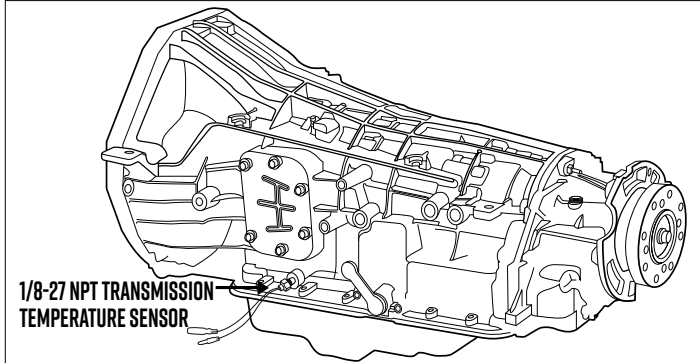
- **Stock Sensor Location:** Use a T-Fitting (optional) to "T" off your stock sensor location. This will allow you to keep your stock sensor installed, while also allowing you to install an Aftermarket Pressure Sensor.
 - **Cooler Line:** Most vehicle transmissions have two Cooler Lines. Measure your vehicle's outside diameter of the Cooler Line to determine what size adapter will be required. Common diameters are 5/16", 3/8", 1/2" and 5/8".
- Make sure to have a Catch Pan available to catch any lost transmission fluid. Determine which location on your transmission you will use to install the Transmission Pressure Sensor. Adapters may be needed and are available at www.GlowShift.com: Thread the Transmission Pressure Sensor into the selected location and tighten with a **22mm wrench**.
 - Plug the Transmission Pressure Sensor Harness into the Transmission Pressure Sensor.
 - Route the Transmission Pressure Sensor Harness through the firewall from the engine bay, keeping it clear of any moving parts and heat sources.

Note: Be sure to use a grommet when routing the Harness through the firewall to protect it from being cut or damaged. Make sure it is large enough to run all the Sensor Wiring into the vehicle's cabin. If one is not available you will need to drill a hole and install a grommet.



- Plug the Transmission Pressure Sensor Harness into the upper left port on the back of the Combo Gauge.

Transmission Temperature Sensor Installation



There are several different ways to connect a Transmission Temperature sensor to your vehicle. In some cases an adapter is needed to adapt the 1/8-27 NPT Sensor to your transmission.

1. There are four common types of Transmission Temperature Sensor installations. GlowShift recommends installing the 1/8-27 NPT sensor to a Test Port, Stock Sensor Location, Cooler Line, or Transmission Pan. If the thread size does not match, or if the sensor is too long, a Thread Adapter is required and available at www.GlowShift.com:
 - **Transmission Test Port:** Most vehicle transmissions come equipped with a Test Port Location. This may be located on either the driver or passenger sides of the transmission near the Transmission Oil Pan. The bolt in this port should be removed and the depth of the Test Port should be verified to ensure there is a minimum of 7/8" for the Transmission Temperature Sensor to clear. If there is not enough clearance a Test Port Extender may be used in some applications.

Note: A Test Port Extender is needed on all Dodge Ram trucks with an automatic transmission starting with the 1990 TorqueFlite A518 and 46RH through the 2007 with the 48RE. The 2007.5 with the 68RFE Automatic Transmission and newer trucks require a T-Fitting. A Stubby Temperature Sensor is required for all 4L60e Transmissions.
 - **Stock Sensor Location:** Use a T-Fitting (optional) to "T" o your stock sensor location. This will allow you to keep your stock sensor installed, while also allowing you to install an Aftermarket Transmission Temperature Sensor.
 - **Cooler Line:** Most vehicle transmissions have two Cooler Lines. Measure your vehicle's Cooler Line to determine what size adapter will be required. Common diameters are 5/16", 3/8", 1/2", 5/8".
 - **Transmission Pan:** Some aftermarket Pans have an available port in order to install a Temperature Sensor. If a port is not available you are able to install a Bulk Head Adapter or you can Weld in a Bung. Make sure to have a Catch Pan available to catch any lost transmission fluid.

2. To install the Transmission Temperature Sensor, start by applying Teflon tape to the Transmission Temperature Sensor Threads. Install the 1/8th-27 NPT Transmission Temperature Sensor to your vehicle's transmission system using one of the above methods that will work best for your application, tightening the sensor using a 14mm wrench.
3. Plug the Transmission Temperature Sensor Harness into the Transmission Temperature Sensor.
4. Route the Transmission Temperature Sensor Harness through the firewall from the engine bay, keeping it clear of any moving parts and heat sources.

Note: Be sure to use a grommet when routing the Harness through the firewall to protect it from being cut or damaged. Make sure it is large enough to run all the Sensor Wiring into the vehicle's cabin. If one is not available you will need to drill a hole and install a grommet.

5. Plug the Transmission Temperature Sensor Harness into the upper right port on the back of the Combo Gauge.

Gauge Wiring

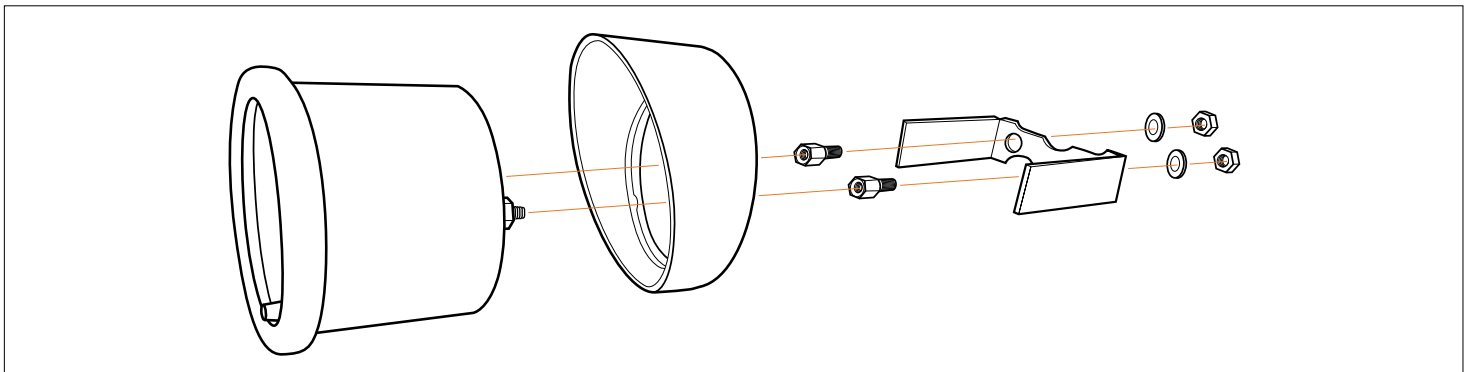
1. With your Sensor Harnesses connected, plug in the power harness and place the gauge in the mounting location.
2. In order to test for power, reconnect the Negative Battery Terminal.
3. It may be necessary to remove the Vehicle Trim and/or Kick Panels in order to gain access to the vehicle's Fuse Box.
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 **Yellow Wire** of the gauge to the Constant 12-Volt Power Source.
5. Repeat the same step for the **Red 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, either in the fuse box or at the switch itself.

Note: Make sure the connection source does not dim. If the voltage is reduced when you lower the Dimmer Wheel it will cause the gauge to flicker from not having enough voltage.
7. Locate a clean, reliable grounding source and connect the **Black Wire** from the gauge.
8. After all wiring is complete, turn the vehicle's key to the "On" position and confirm that your gauge illuminates.
9. Press the COLOR Changing Button on your gauge and scroll through the 10 Color options as well as the Color Change and Color Fade option: this will allow you to have the Gauge Face change between all of the colors automatically.
10. Turn on the headlights to ensure that the gauge is dimming.
11. Reinstall any panels that may have been removed.
12. Ensure your gauge is functioning properly.

10-Color Mode

1. Press the color changing button to cycle between the ten different color options of both displays. The color will change each time the button is pressed.
2. To set a different color on the upper display than what is on the lower display, press the color changing button until the preferred color is set on the lower display. Then, hold the color changing button until the upper display starts to flash. While flashing, press the color changing button to cycle between the ten different color options of the upper display. When satisfied with the color of the upper display, wait for the gauge to stop flashing and the selected colors will be set.
3. The sequence of display colors is: blue, green, red, yellow, white, teal, purple, pink, amber, and orange. After orange, there are two automatic color-changing functions on the gauge that begin with the color blue. They are the 10 Color Cycle Mode and the 10 Color Fade Mode.

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.