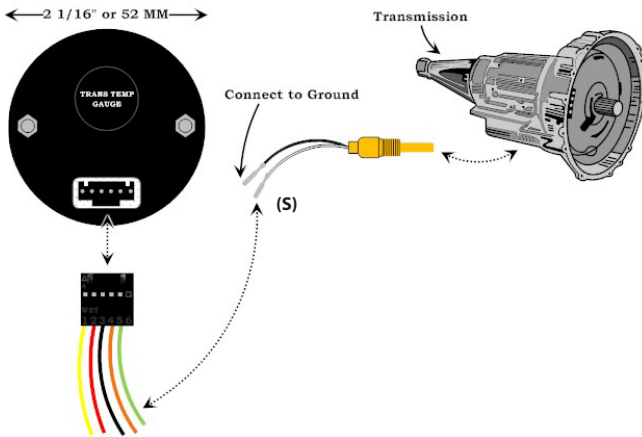


# 10 Color Digital Series Transmission Temperature Gauge

Product Number: GS-TCD12



## Wire Harness Color Code

- Red:** 12v Ignition Switched Source (+)
- Orange:** 12v Headlight Switched Source (+)
- Yellow:** 12v Constant Source (+)
- Black:** Vehicle/Engine Ground (-)
- Green:** Connects to White Wire on Temperature Sensor

### Sensor Wires (S)

- Black:** Vehicle/Engine Ground (-)
- White:** Connects to Green Wire on Power Harness

1. Disconnect the negative battery cable.

## Temperature Sensor Installation

2. There are three common types of transmission temperature sensor installations:

- **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 sensor fitted in its place. Confirm port and thread size with your service manual. A test port extender will be required when installing this sensor into Dodge Ram model years 1994-2007.5.
- **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 temperature sensor.
- **Transmission Cooler T-Fitting Adapter:** Verify Transmission Line Size (Dodge Cummins with 6.7L Cummins Use 1/2" T-fitting and GM Duramax Allison Transmissions will use 5/8"). This allows the T-fitting to be installed to the hot transmission line before the cooler and allows the sensor to be installed into this T-fitting.

**Note:** Some vehicles may require additional adapters to complete the installation of this sensor.

## Connecting the Power Wire Harness

3. For this step, we recommend using GlowShift's Expandable Circuit to power your gauges. Locate your fuse panel and remove a fuse that does not exceed 15 amps for a switched 12 volt power source. Crimp the lead power wire to the Expandable Circuit's butt connector. Insert the fuse you removed from the fuse panel into the open slot in the Expandable Circuit, then plug the Expandable Circuit into the open slot in the fuse panel. The expandable circuit is available for purchase at [www.GlowShift.com](http://www.GlowShift.com).

- **Note:** Be sure to use a grommet when routing wires through the firewall to protect them from being cut or damaged.

4. Connect the **green wire** from the gauge to the **white wire** of the transmission temperature sensor. Then, connect the **black wire** of the transmission temperature sensor to a good, clean **ground connection**.

5. Using 18 gauge automotive grade wiring, connect the **yellow wire** to a positive 12 volt **constant (unswitched)** source. It may be connected to the fuse panel or to the vehicle's positive battery terminal. If connecting to the battery, you **must** install a 3 amp fuse within 6-8 inches of the battery connection.

6. Using 18 gauge automotive grade wiring, connect the **red wire** to a positive 12 volt **ignition (switched)** source. It may be connected to the fuse panel, an accessory wire, or any positive 12 volt source that turns on and off with the ignition.

7. Using 18 gauge automotive grade wiring, connect the **black wire** to any good, clean **ground connection**. You may also route a wire directly to the negative side of the vehicle's battery.

8. Connect the **orange wire** to the positive 12 volt **headlamp source**. This allows the Nighttime Dimming feature which decreases the brightness of the gauge face by 50% to be activated when the headlights come on. This step is optional and will not affect operation of the gauge if it is omitted.

- **Note:** Do not connect the orange wire to a dimmer wheel. This will cause the gauge lighting to flicker.

9. Reconnect the negative battery cable.



## Installation Instructions

Tech Support: 856.768.8300

TechSupport@GlowShiftGauges.com

### 10-Color Mode

1. Press the color changing button to cycle between the 10 different color options.
2. The sequence of display colors are: Blue, Green, Red, Yellow, White, Teal, Purple, Pink, Amber and Orange. After Orange, 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 Fade Mode.

### Additional Installation Information & Material Requirements

- **GlowShift Gauges Approved Conductor Wires:** Successfully installing GlowShift Gauges may require additional lengths of wire (sizes and quantity depend on vehicle, gauge type, gauge location and/or sensor location). For accurate and proper GlowShift Gauge installation and operation, we recommend the use of 18-20 Gauge (wire diameter) automotive grade conductor wire with sheathing for one or more gauges per vehicle. Be sure to always use a rubber grommet when routing wires from the engine compartment to the inside of the vehicle cabin to prevent and deter the stripping of the power supply and/or sensor wires, as these are necessary to deliver vital statistics about your engine to your GlowShift gauges. Never use wire nuts when fastening or bounding vehicle, gauge, or sensor wiring, we recommend always using automotive crimp connectors or solder individual wires together for optimum gauge installation and operation.
- **GlowShift Gauges Approved Installation Accessories:** Installations may require additional products, accessories, or adapters for a complete installation and efficient operation of a gauge or sensor. We recommend verifying the need for any additional parts specific for your vehicle before beginning the installation process to ensure a smooth install.
- **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.



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### 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](http://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 nontransferable 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 nontransferable 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.