

IN-DASH SPEEDOMETER GAUGE INSTRUCTIONS



The following instructions are for the installation of your **Elite 10 Color Series In-Dash Speedometer 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

- 3-3/4" (95mm) In-Dash Speedometer Gauge
- 6ft Speedometer Signal Wire
- 2ft Power Harness
- 1ft Daisy Chain Harness
- External Warning Light w/ Harness
- Fine Tune Adjustment Tool
- Gauge Visor and Mounting Bracket

WIRE SCHEMATIC

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

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

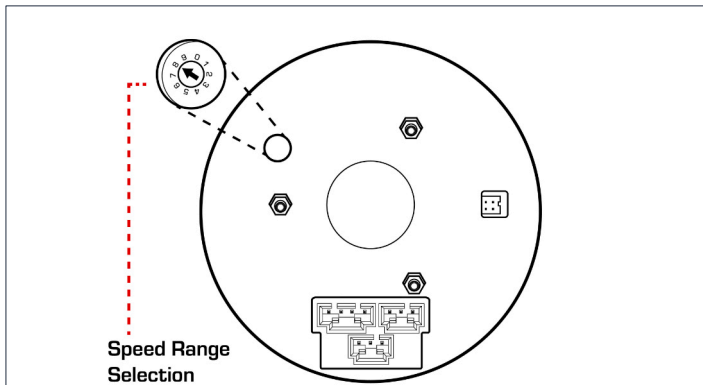
Orange: 12v Dimmer (switched) Source (+)

Black: Vehicle/Engine Ground (-)

White: Speedometer Signal

⚠ WARNING

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



There are several different ways to connect a Speedometer to your vehicle. In some cases an adapter is needed to install the Speedometer to your vehicle.

- **Stock Vehicle Speed Sensor:** Locate the vehicle speed sensor usually located on the transmission. Our Speedometer reads a square wave signal.
 - **GPS Speedometer Sensor:** If your vehicle does not have a vehicle speed sensor, or the output is not correct, we offer a GPS Speedometer Sensor Kit on www.GlowShift.com. While the gauge is unplugged, be sure to switch the setting on the back of the gauge to 3 and then you can fine-tune the adjustment once fully installed. This allows a Speedometer to work on any vehicle regardless of the year, make or model.
 - **16 Pulse Speedometer Sensor:** If you have a vehicle that has a mechanical GM/Mopar or Ford Speedometer cable, we offer a 16 Pulse Speedometer Sensor on www.GlowShift.com. This sensor will connect to the mechanical speedometer cable location and convert the revolutions to a usable electronic signal that our Speedometer is able to read. While the gauge is unplugged, be sure to switch the setting on the back of the gauge to 4 and then you can fine-tune the adjustment once fully installed.
1. Splice the **White Wire** from the gauge to your chosen signal source.

2. Route the **White** Speedometer signal wire through the engine bay and firewall using a grommet, keeping it clear of any moving parts and heat sources.
3. Plug the Speedometer Power Harness into the back of the Speedometer Gauge.
4. Once the gauge is installed, you must drive the vehicle to adjust the speed range on the Speedometer. There are several ways to test the calibration by calculating driving speed from any free app available for download or by driving a specific distance and timing yourself to calculate speed for an approximate calibration. Please be sure to use extreme caution when calibrating the speedometer.

SPEED RANGE SELECTION

- Adjust the dial switch on the back of the gauge to an approximate range.
Move the switch from 0,9,8,7,6,5,4,3,2,1 to narrow the speed range.
Move the switch from 1,2,3,4,5,6,7,8,9,0 to widen the speed range.
- Note:** To ensure proper calibration of the speed range selection, unplug the power harness from the gauge, change the selection setting, and reapply power to the gauge.
- Once you have an approximate setting, fine-tune the gauge by using the adjustment knob on the back of the gauge. Turn the knob to pinpoint the exact MPH by using your calibration method or by going off of your stock gauge. If you cannot get the MPH correct, you will have to adjust the switch.

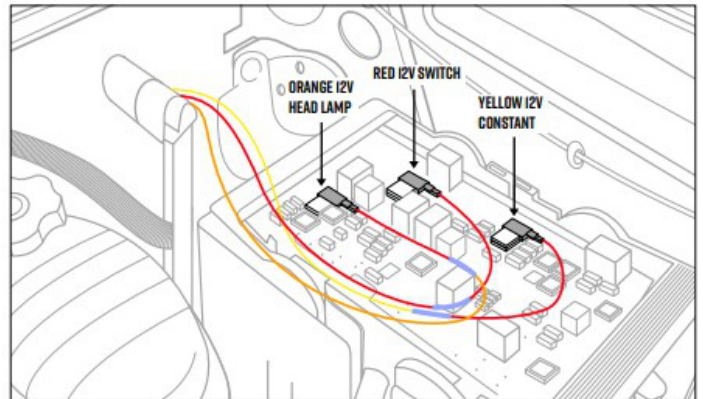
GAUGE WIRING

1. Plug in the power and signal harnesses to the back of the gauge and place the gauge in the mounting location.
2. In order to test for power, reconnect the Negative Battery Terminal.

- It may be necessary to remove the Vehicle Trim and/or Kick Panels in order to gain access to the vehicle's Fuse Box.
- 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.

- 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.
 - 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 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.
- Locate a clean, reliable grounding source and connect the **Black Wire** from the gauges.



- After all wiring is complete, turn the vehicle's key to the "On" position and confirm that your gauge illuminates.
- Turn on the headlights to ensure the gauge is dimming.
- Reinstall any panels that may have been removed.
- Test drive your vehicle to ensure the gauge is functioning properly.
- 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:

- Press the **COLOR** button to cycle between the 10 different color options.
- 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:

- 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
- 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.

HIGH-WARNING MODE 1:

- Hold the **FUNC** button for 5 seconds to enter into the High-Warning 1 setting mode. It will display **WARN 1** in the LED Display.
- When the needle and the warning light are flashing, you can now program the High-Warning Mode 1 Value. Pressing the **COLOR** button will move the

needle clockwise while pressing the **SET** button will move the needle counter-clockwise.

- Holding either the **COLOR** button or the **SET** button will move the needle in major increments in the button's respective direction.
- After 5 seconds of no button activity, the gauge will return to its normal operating mode.

HIGH-WARNING MODE 2:

- Press the **FUNC** button again to enter into the High-Warning 2 setting mode. It will display **WARN 2** in the LED Display.
- When the needle is flashing and the warning light is on, you can now program the High-Warning Mode 2 Value. Pressing the **COLOR** button will move the needle clockwise while pressing the **SET** button will move the needle counter-clockwise.
- Holding either the **COLOR** button or the **SET** button will move the needle in major increments in the button's respective direction.
- After 5 seconds of no button activity, the gauge will return to its normal operating mode.

OPENING SOUND MODE:

- Press the **FUNC** button until you get into the opening sound mode. The gauge backlight will flash and the LED display will read **SD. SCAN ON/OFF**.
- Press the **COLOR** and **SET** buttons to turn the Opening Sound Mode on and off.

- When the word **PEAK** is off, the sound will be disabled. Likewise when the word **PEAK** is on, the sound will be enabled.
- When the Opening Sound is on, you will hear (2) beeps while the gauge goes through its startup calibration .

KEY SOUND MODE:

- To hear the Key Sound when either button is pressed, press the **FUNC** button until the lights on the button flash and the LED display reads **SD. KEY ON/OFF**.
- Press the **COLOR** and **SET** buttons to turn the Opening Sound Mode on and off
- When the word **PEAK** is off, the sound will be disabled. Likewise when the word **PEAK** is on, the sound will be enabled.
- When the Key Sound is on, you will hear a beep while pressing the buttons.

WARNING SOUND MODE:

- To turn the warning sound on, press the **FUNC** button until the warning light is flashing and **SD. WARN 1 ON/OFF** is displayed in the LED display.

- Press the **COLOR** and **SET** buttons to turn the Opening Sound Mode on and off.
- When the **PEAK** word is off, the sound will be disabled. Likewise when the **PEAK** word is on, the sound will be enabled.

OPTIONAL EXTERNAL WARNING LIGHT:

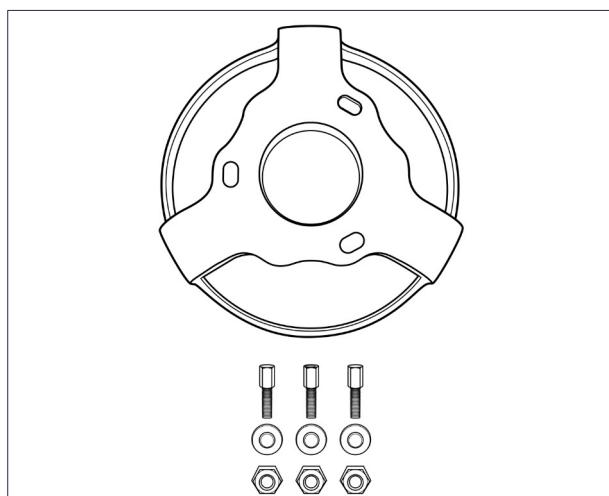
- The Optional External Warning Light is designed to be used with the optional On-Dash Pedestal Mounting Bracket available at www.GlowShift.com.
- The external warning light mounts between the bracket strap and the gauge's body.
- The harness plugs directly into the back of the gauge and will duplicate the functions of the integrated warning light on the gauge.
- The external warning light changes colors to match the color of the gauge face by pressing the color button on the gauge.

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.



IN-DASH MOUNTING BRACKET

- The included Single Gauge In-Dash Mounting Bracket is designed to hold (1) 3-3/4" [95mm] gauge and mounts into your car or truck's dashboard.



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.