

### GPS SPEEDOMETER SENSOR KIT

1. Disconnect the battery cable from the negative post of the battery.
2. Locate an unobstructed area to mount the antenna. Can be inside or outside the vehicle as long as it has a clear line of sight to the sky. The antenna is magnetic for you to test the position. For permanent installation, please clean and prep the area using alcohol prep pads and adhere the antenna. (Note: 3M adhesion promoter can also be used for added adhesion.)
3. Route the antenna wire carefully and securely to the controller.

**IMPORTANT:** Do not bend or pinch the antenna wire. If you have excess, please loop with soft bends and secure with wire ties.

4. Mount the controller in a safe dry location.
5. To make the wiring of your gauges easier you can purchase an expandable circuit. This component easily fits into your fuse panel and provides an additional fused power wire for accessories such as gauges. The expandable circuit is available for purchase at [www.GlowShift.com](http://www.GlowShift.com).
6. Using automotive grade wiring (18 gauge); connect the black wire to any reliable (unpainted) ground connection. You may also route a wire directly to the negative side of the vehicle's battery.
7. Using automotive grade wiring (18 gauge); 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.

**OPTIONAL STEP:** Connect the red wire to a positive 12-Volt constant (un-switched) source either on the vehicle or in the fuse box, this will allow the controller to keep a signal and it will not have to acquire a signal at startup but there is a power draw, and the battery may become weak if the vehicle sits for an extended amount of time.

8. Connect the green wire to the green signal wire of the speedometer gauge.
9. Reconnect the battery and test the operation.
10. When power is first connected to the controller, it can take up to 5 minutes to acquire a signal. Once a signal is acquired, the speedometer will be able to read.
11. Once the gauge is connected to the GPS Adapter, 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 setting 2 for most applications. If you are not getting a good 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 comparing to your stock gauge. If you cannot get the MPH correct, you will have to adjust the switch.

12. Once you turn off the key and turn it back on it usually will take about 30 seconds to acquire the signal. (Note: If you have it connected to constant power the signal will not be lost when you shut the key off.)
13. If you find that you lose the signal and you have a reliable power connection, make sure that there are no pinches in the antenna wire, and that you are free from obstructions. (Note: Enclosed areas such as garages and tunnels will obstruct the signal and you may not be able to acquire a signal.)





# INSTALLATION INSTRUCTIONS

856.768.8300 • TechSupport@GlowShiftGauges.

## 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 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

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### 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.