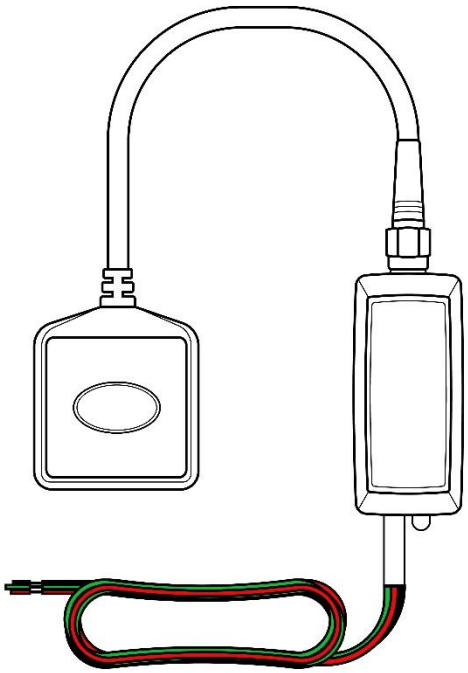
GPS Speedometer Sensor Kit



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. 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.
6. Using automotive grade wiring (18 gauge); connect the **black wire** to any good (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 installation: 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 week 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 the LED light on the controller will flash red until a signal is acquired. It can take up to 5 minutes to acquire a signal. Once a signal is acquired the LED will turn green and the speedometer will be able to read.
11. Once the gauge 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 3 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 going off of 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 back on it usually will take about 30 seconds to require 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 good power connection, make sure that there are no pinches in the antenna wire, and 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.)