INSTALLATION INSTRUCTIONS
GPS ELECTRIC SPEEDOMETER
2650-1597-00 rev A

IMPORTANT

WEAR SAFETY GLASSES

QUESTIONS:
If after completely reading these instructions you have questions regarding the operation or installation of your instrument(s), please contact Auto Meter Technical Service at **866-248-6357.**
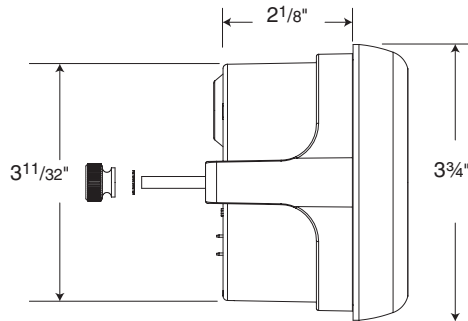You may also email us at **service@autometer.com.**
Additional information can also be found at **http://www.autometer.com/tech_faq.aspx**
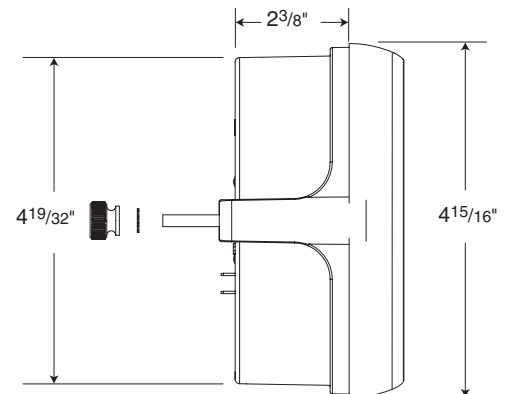
Mounting

1. Mount a $3^3/8$" speedometer in a $3^3/8$" dia. hole and a 5" speedometer in a $4^5/8$" dia. hole. Be careful not to cut the hole too large.
2. Cut a $3/8$" dia. hole in the firewall for the speedometer wires. Place a rubber grommet in the hole and route the wires through the grommet to the engine compartment.
3. Connect the speedometer wires as shown in the wiring sections.
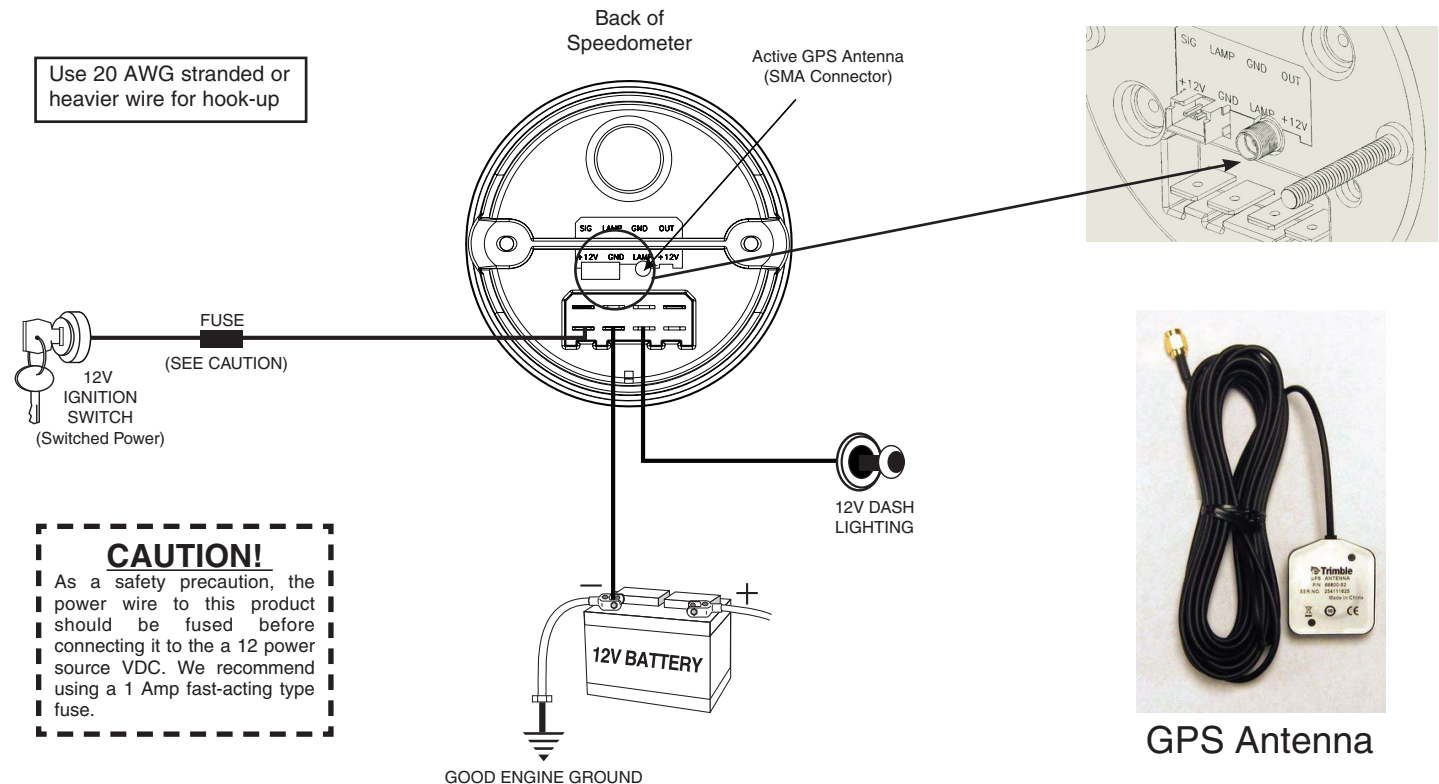4. Secure the speedometer to the dashboard using the provided bracket and hardware.

5" Models

$3^3/8$" Models

Wiring

Connect the GPS speedo as shown below. Connect the external GPS antenna (supplied with unit) to the gold SMA connector on the back of the unit.

Use 20 AWG stranded or heavier wire for hook-up

Back of Speedometer

Active GPS Antenna (SMA Connector)

FUSE
(SEE CAUTION)

12V IGNITION SWITCH
(Switched Power)

12V DASH LIGHTING

CAUTION!
As a safety precaution, the power wire to this product should be fused before connecting it to the a 12 power source VDC. We recommend using a 1 Amp fast-acting type fuse.

12V BATTERY

GPS Antenna

GOOD ENGINE GROUND

Powering Speedometer

Once the speedometer is mounted and wired into the vehicle, the speedometer should be tested to verify that the electrical connections are working properly. First, apply power to the speedometer. The LED display will show "AMP GPS", then the firmware version number. *If an optional external NEMA data source is connected, a menu item will be displayed followed by the data for this menu item. If only the external antenna is connected, the readout will display "ACQUIRING SIGNAL". Once a valid position is determined the display will read "LOCKED" and go to the last selected menu item. External data will take precedence over the antenna input.

*This speedometer can be used with external NEMA data source using optional Auto Meter 5214 wire harness pigtail.

Time Set Up

The time can only be set when there is a valid position, this will be indicated with colons between the time digits.
To set the current time, while in the time mode hold down the (left) menu button and press the right button until the correct hour is displayed, then release the menu button. Note- When setting the time a 24 hour clock will always be used. During operation, you can always switch between a 12 hour and 24 hour clock by tapping the right button while in Time Mode.

Operation

There are eight menu items to chose from: Time, Directional Heading, Peak Speed, Trip (distance), Odometer, Location, Hours and Display.
Press the left button to cycle between the different menu items.

- Time - will display the current time.
- Heading - will display your current heading when moving as a compass direction and heading in degrees.
- Peak Speed – will display your peak speed. This value can be cleared by pressing and releasing the right button.
- Trip – will display the number of miles traveled since it was reset. This value can be cleared by pressing and releasing the right button.
- Trip Time - Shows the elapsed time in hours, minutes and seconds since the speedometer was turned on.
- Odometer – Will display the miles traveled since installed. This value can not be reset.
- Location – will display your current latitude and longitude.
- Hours – will show engine hours since installed. This value can not be reset.
- Display – will control the brightness of the display. There are 6 levels of brightness. After entering the display mode the current brightness level will be displayed. Pressing the right button will advance the current brightness level, returning to the lowest level after level 6. Pressing the menu button or not pressing any button for 4 seconds will return the display to the time mode.

Light Replacement (Models that have incandescent lighting only)

Remove the plastic cap on the back of the speedometer. Using needle nose pliers, rotate the twist-lock lamp socket counterclockwise to remove. Replace old bulb with GE 168 bulb.

Antenna Placement

The antenna can be placed inside or outside of the vehicle. The antenna is waterproof and can be painted. Common mounting places are the roof, top of the dashboard, and top of rear package tray (interior of rear window). If using any other GPS device, keep antennas at opposite ends of the vehicle for best results. Closely mounted antennas can increase the time it takes to acquire a signal. (Service replacement antenna model #5283)

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