



## GPS Speed Sender

Tech Support 1-800-265-1818  
<http://usa.vdo.com>

Instruction Sheet # A2C59519787

Rev 05-2015

### Installation:

1. Select a mounting location. This sender will perform optimally when mounted with a 'clear line of sight' to the sky, i.e.: not blocked by a roofline or other steel structure. Other locations may work, depending on your vehicles characteristics. This sender has been designed with a watertight enclosure and may be mounted in an exterior location, if required.
2. Wire the GPS speed sender as follows

Wire Color	Function
Red	+12V
Black	Ground
Green	Signal output to speedometer
White	Signal Switching* to ground (-12V) for 200,000 pulses to power (+12V) for 16,000 pulses

\* Use 200,000 pulses when using a VDO speedometer. Use 16,000 pulses for most non-VDO speedometers.

Note: +12V can be constant (ie: to the battery) or switched.

- +12V constant will allow the GPS sender to maintain constant connection to the GPS satellites and allow for immediate speed signal at vehicle start. Battery consumption is comparable to that of a radio's clock.
- +12V switched will not draw any power when the vehicle is shut down, but will require 35-60 seconds for the sender to connect to the GPS satellites when power is switched on.

3. LED Status Indicator Light Functions:

Flashing Orange	GPS Signal Search
Green	GPS Signal Found
Flashing Red	No GPS Signal
Red	System Error





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This sender transmits 16,000 or 200,000 pulses per mile driven (depending on your wiring preference in step #2). When used with a VDO speedometer (purchased separately), you can calibrate the speedometer to the GPS sender by:

- A. Following the instructions for auto-calibration
- B. Follow the instruction for manually inputting the pulses and entering 200,000 pulses when prompted.

This GPS speed sender has a special feature that allows it to continue to transmit the last known speed during operation, if it should lose connection with all GPS satellites. If that should happen, the GPS status light will flash orange until connection is regained with at least 1 satellite. Your speedometer will continue to indicate the last known speed until such time that a connection is re-established.

**Note:** Once connected to a power supply, the VDO GPS Speed Sender functions automatically, and requires no further input or actions to be taken by the user. There are no adjustments or user serviceable components in the housing.

### GPS Sender Troubleshooting

*GPS Sender LED flashes orange.*  
Sender is attempting to connect to the GPS satellites. This is normal during power up, and will normally take 35-60 seconds to connect and change to 'green'. If the sender is not able to connect to at least 1 satellite, or maintain connection to at least 1 satellite, the light will continue to flash orange. This is most likely caused by the sender being mounted in a location that is receiving interference, or the vehicle is located in an area that cannot get a clear view of the GPS satellites. Try moving the vehicle to a different location or change the mounting location of the sender.

*GPS Sender LED flashes red.*  
Sender is not able to detect at least one GPS signal. Mount the sender in a different location with a clear line of sight to the sky.

*GPS Sender LED remains red.*  
The sender has detected an error. Try disconnecting both power and ground to reset the unit, then reconnect.

Merchandise warranted against defects in factory workmanship and materials for a period of 24 months after purchase. This warranty applies to the first retail purchaser and covers only those products exposed to normal use or service. Provisions of this warranty shall not apply to a VDO product used for a purpose for which it is not designed, or which has been altered in any way that would be detrimental to the performance or life of the products, or misapplication, misuse, negligence or accident. On any VDO part or VDO product found to be defective after examination by manufacturer, manufacturer will only repair or replace the merchandise through the original selling dealer. Manufacturer assumes no responsibility for diagnosis, removal and/or installation labor, loss of vehicle use, loss of time, inconvenience or any other consequential expenses. The