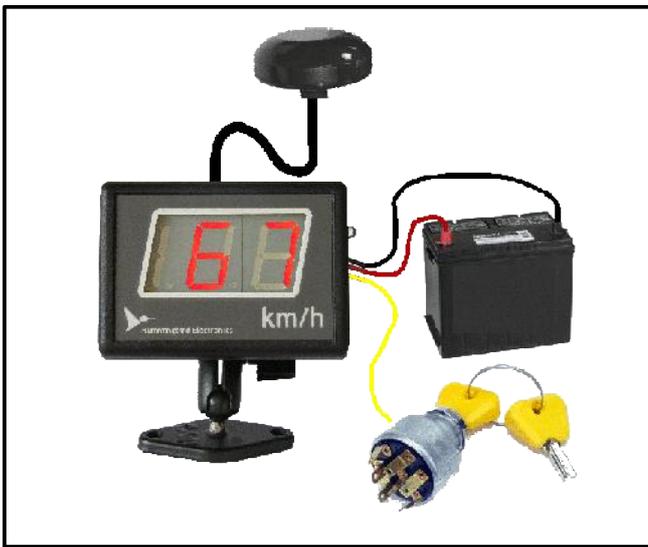


# Digital GPS Speedometer

## Installation and setup instructions

Installation of a Digital GPS Speedometer is straightforward as long as a few critical points are noted. Critical items will be highlighted in **bold italics** in this document for your quick reference.



Typical GPS Speedometer installation

### Installation Instructions

1) **For optimal performance, the GPS receiver must be provided with permanent power (red wire).** Ideally the unit should be connected directly to the vehicle's / boat's battery (through a fuse). If switched power is provided, the unit will re-start each time power is applied, and it will take a few minutes to acquire satellites and to begin to show speed. The display will flash periodically whilst acquiring satellites.

2) To save power, the display can be turned off whilst the GPS receiver is still powered. To accomplish this, **the switched input (yellow wire) should be connected to ignition such that it is on when the ignition is on.** If this feature is not required, connect the yellow wire to the red wire (permanent power) and the display will show whenever the unit is powered.

3) For optimum performance, **the antenna should be mounted horizontally and upright;** and should have a clear view of the sky. Typical positions for mounting the various units are:

- magnetic mount or passive: suitable for mounting in the interior of the vehicle, for example under the dashboard or rear window sill or in a boat under a fibreglass sill or instrument panel.

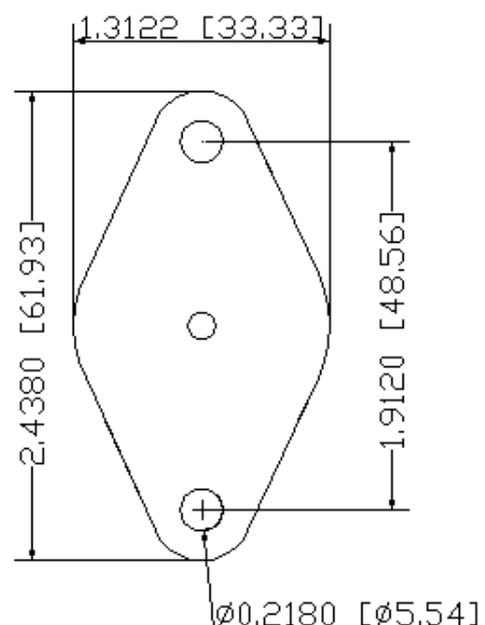
- bulkhead mount: suitable for exterior mount, for example on the roof of the cab / cabin.

**Please ensure that the antenna cable is never tightly bent or twisted** but is folded gently around corners. The antenna is attached to the GPS Speedometer using the gold plated SMA connector provided on the side of the speedometer.

5) A light sensor is provided on the right-hand side of the speedometer and is used to regulate the brightness of the display according to ambient light levels. **Please ensure that the light sensor is not obscured during installation.**

### Mounting Detail

Units with suction mount attachments can be affixed to any smooth surface. For screw-mount versions, a mounting template, with dimensions in inches (millimeters) is given below.



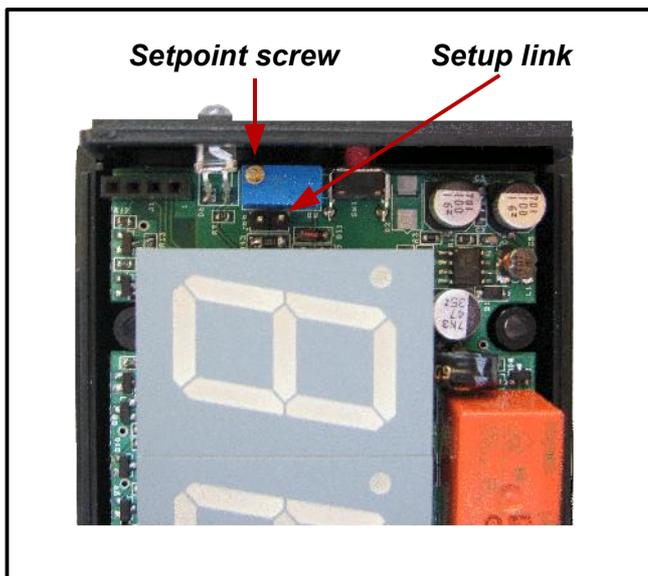
# Digital GPS Speedometer

## Using the optional Speed-Switch

### Setting the speed setpoint

The speed switch allows the user to control or give feedback to the driver when a preset speed setpoint is reached. To set the speed setpoint, open the unit by removing the 4 small screws on the rear of the unit and gently removing the front cover. Identify the speed setpoint screw and the setup link. **Insert the link provided, shorting the 2 pins of the setup link.** The display will now show the current speed setpoint. **To change the setpoint, turn the setpoint screw clockwise to increase and anti-clockwise to decrease.**

To disable the speed setpoint switch, turn the setpoint screw clockwise until the display indicates 199.



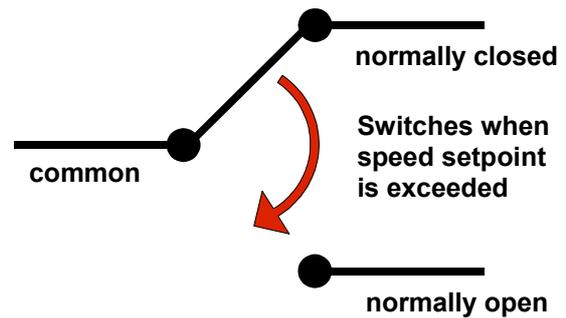
Identify the setpoint adjust screw and setup link

### Connecting the wires

Three wires associated with the speed switch are provided. Green is the normally closed, which means that when the speed switch is not activated that the normally closed and the common wires will be shorted together. Blue is normally open, which becomes connected to the common when the speed setpoint is exceeded. The normally open and closed terminals will never be connected together.

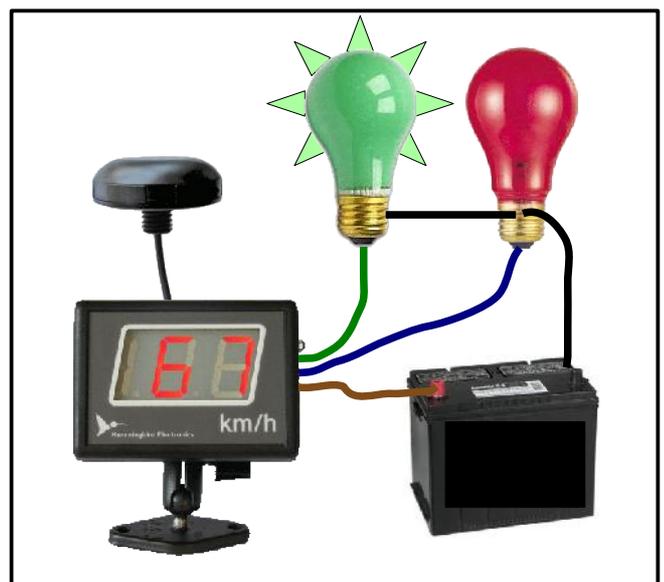
**A 4A fuse should be inserted in series with the common of the speed switch.**

**Please take care when opening the GPS Speedometer not to short any of the internal circuitry to either chassis, ground or positive voltage.**



### Wiring Specification:

Red	input voltage (6V to 36V)
Yellow	switched input voltage (6V to 36V)
Black	ground (0V)
Green	normally closed
Blue	normally open
Brown	common



Typical speed switch installation – the green light (connected to normally-closed) will be on until the speed setpoint is exceeded at which point the red light will be on and the green off.

### Electrical Specifications:

Input voltage:	10-36V
Power consumption:	maximum 2.5W (200mA @ 12V) all segments lit at full brightness.
Speed switch current:	4.5A maximum