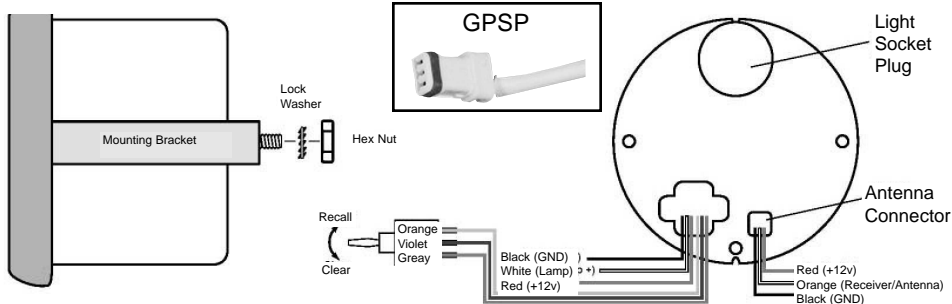


## GPS INSTRUCTIONS FOR - GPS, GPSA, LM, LMS



### Installation:

- Install GPS speedo as shown in the picture. Extra Care must be taken to ensure that all wiring connections are shielded from water spray and that they are secure and correct.

**Improper installation could damage the instrument and void the warranty.**

**GPS Antenna to be affixed by silicone or 2 sided tape and should be removable in case battery goes dead. There is an internal battery in some older antennas that holds the memory and has a shelf life of 3 to 5 years. Antenna must be sent back to the factory for replacement. .**

- Antennae must be mounted in clear view of satellites. Mount the antennae with 4200, 5200 silicone adhesive or double face tape.

### Operation and Troubleshooting

This speedometer was designed with a special software program that will assist the owner in determining the difference between normal operation and troubleshooting.

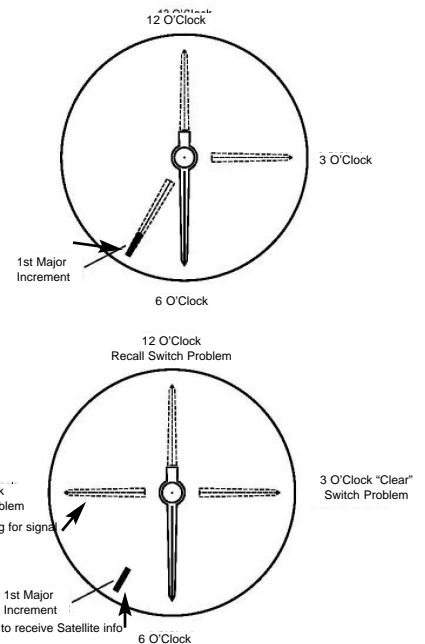
#### Normal Operation:

Upon power up, the pointer will move to the 6 o'clock position and then immediately sweep to the 3 o'clock position for approximately three seconds. It will then move to the 12 o'clock position for an additional three seconds and then return to 6 o'clock. This power up diagnostic indicates that the gauge and antenna are working properly, and will now start seeking satellites. The pointer will move to the first major mark of the gauge (all models) and stay there until a satellite is found. Normally this takes 20-30 seconds, but depending on the terrain, and how far the boat was trailered, it could take up to 30 minutes. If the pointer returns to zero within 30 minutes, this means a satellite was found, and is ready for operation.

#### Troubleshooting:

If a satellite was not found, the pointer will move to the 9 o'clock position and stay there until the problem is resolved. This could mean a poor connection between the antenna and the gauge, or the gauge is not receiving 12 volts. As soon as the gauge begins to receive data from the antenna, the pointer should move to indicate the received speed. If the pointer moves to the 12 o'clock position and stays there, this will indicate that the recall/clear switch is stuck in the "recall" position, or that the connection is poor. If the pointer moves to the 3 o'clock position and stays there, this will indicate the the switch is stuck in the clear position, or that the connection is poor.

**If you are having difficulties interfacing the GPS speedometer with your GPS unit, please consult the output portion of your GPS unit owner's manual.**



## Recall / Clear Operation:

**Warning: INCORRECT CONNECTION OF THE VIOLET, ORANGE, AND GRAY WIRES TO THE RECALL/CLEAR SWITCH MAY RESULT IN DAMAGE TO THE ELECTRONIC CIRCUITRY OF THE GPS SPEEDOMETER. THIS WILL VOID WARRANTY. FOLLOW THE CONNECTIONS INSTRUCTIONS FOR THE RECALL/CLEAR SWITCH AS OUTLINED IN THIS SECTION.**

This gauge may be used to recall the boats top speed. Connect the wires for the RECALL/CLEAR switch as follows: VIOLET to the center post. ORANGE wire to one side of the switch, and GRAY wire to the other side of the switch. After running the boat for any length of time, the operator may recall the top speed by hitting the recall switch. This speed will stay in memory until it is cleared. This is done by simply holding the clear switch for a minimum of 1/2 second. It is essential that the switch be returned to the neutral position before resuming operation. It is recommended that a label be applied near the switch, to indicate "recall" and "clear".

## Average Speed Algorithm

The GPS Speedometer average speed algorithm can be used anytime after the speedometer is powered up and has run through the power up diagnostics. It is important to follow the sequence as outlined below.

- 1) Anytime after powering up the speedometer and allowing the self-diagnostics to run, select the clear position on the switch for approximately 3 seconds, and then return the switch to the neutral position. The average speed algorithm has now started.
- 2) The average speed can be checked anytime by selecting the recall position on the switch (which will display the peak speed) and then returning the switch to the neutral position, whereupon the average speed will be displayed for approximately 2 seconds.
- 3) The average speed is not stored in memory and will need to be checked before powering down the speedometer.
- 4) This sequence will need to be repeated, starting at step 1, each time the speedometer is powered up or if the speedometer is in use and it is desired to clear the average speed and reset the average speed algorithm.
- 5) Selecting the clear position on the switch, after accomplishing steps 1 and 2, will clear the average speed and reset the average speed algorithm, therefore, do not select the clear position unless it is desired to accomplish the aforementioned.