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### **INSTALLATION GUIDE**

Marine GPS 3-in-1  
 Speedometer, Tachometer and Volts  
 Part Number: MG003



**After completing all wiring reconnect battery and power up the unit. Test all gauges before reinstalling dash, bezels, and hardware to prevent having to remove it all for any future troubleshooting.**

**Always disconnect the battery before attempting any electrical work on your vehicle.**



### **INSTALLATION**

- **Black**, Wire to the vehicle engine block ground. The engine block should have heavy ground cables connected to the battery, frame, and firewall.
- **Pink**, Wire to switched +12V power from the fuse panel or vehicle wiring harness. (Recommended to use at minimum a 3-amp inline fuse). This wire should have power when key-on and starting ignition.
- **Brown**, For constant back light connect to the same 12V source as the main power. You can also connect this wire to a 2-way switch to turn the back light on and off manually.
- **Green**, Connect the wire from the tachometer to the negative terminal of the coil or a direct tach output lead from your distributor or electronic control module. If you are using an aftermarket capacitive discharge ignition system, such as an MSD, you must use the designated 'tach output' connection on the electronic box. Do not make any connections directly to the coil with this type of system.

### **Operation**

**Note: The GPS Speedometer function requires no set up. When the unit is turned on it may take up to 3 minutes to acquire signal. While setting up or If unit loses signal, it will display NDAT which means No Data or loss of signal**

- On powerup it briefly displays name of gauge currently selected.
- One short button press shows maximum reading since powerup, then briefly displays name of gauge.
- One long button press (~4sec) goes to next gauge (speedo, tach, volts). Display will momentarily show name of gauge.
- It will remember the most recent gauge used and start there at the next powerup.

### **Programming Tachometer:**

1. Go to tach display.
2. Turn off power.
3. Hold in button while turning on power.
4. See blank screen, release button.
5. See number of cylinders displayed.
6. Short button presses cycles though 1,2,3,4,6,8,10, or 12 cylinders.
7. Long button press (~4sec) saves cylinder selection.
8. Now see "8800" or "8880" or "8888".
9. Short button presses cycles through these. The "8"s show what digits are displayed, with remaining always zero.
10. Another long button press saves the number of digits displayed and briefly displays "Tach".

### **Calibrating Voltmeter:**

1. Go to voltmeter display.
2. Turn off power.
3. Hold down button while turning on power.

4. See blank screen, release button.
5. See voltage displayed.
6. Short button presses increment the voltage displayed a tenth of a volt each time.
7. A long button press (~4sec) displays "-Vol", then displays current voltage.
8. Short button presses decrease the voltage displayed a tenth each time.
9. Another long button press stores the voltage adjustment and briefly displays "Volt".

**Note: The voltage adjustment is limited to +/- 3V.**