ELING TNG125MPHWS

ELING Universal 85mm GPS Speedometer User Manual

Model: TNG125MPHWS

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your ELING Universal 85mm GPS Speedometer. This speedometer is designed for use in various vehicles including boats, RVs, cars, trucks, and motorcycles, operating on 12V or 24V systems. It features a 0-125MPH range, odometer, and adjustable settings for total mileage and overspeed alarm.

2. Safety Information

- Always disconnect the vehicle's power supply before beginning installation to prevent electrical shock or damage to the device.
- Ensure all wiring connections are secure and properly insulated to avoid short circuits.
- Mount the GPS antenna in a location with a clear view of the sky for optimal signal reception.
- Do not cut the GPS antenna cable.
- Consult a qualified technician if you are unsure about any installation steps.

3. Package Contents

Verify that all items are present in the package:

- ELING 85mm GPS Speedometer Gauge
- GPS Antenna
- Wiring Harness
- External Button
- Mounting Ring/Nut

- User Manual (this document)



Image: Contents of the ELING GPS Speedometer package, showing the gauge, GPS antenna, wiring, and button.

4. Installation

4.1 Mounting the Gauge

1. Cut an 85mm (3 3/8") diameter hole in the desired panel.
2. Ensure a clearance of 55mm (2 3/16") behind the panel for the gauge body.
3. Insert the gauge into the hole.
4. Secure the gauge using the provided mounting ring and nut.



Image: Side profile of the speedometer, illustrating the mounting mechanism and depth.

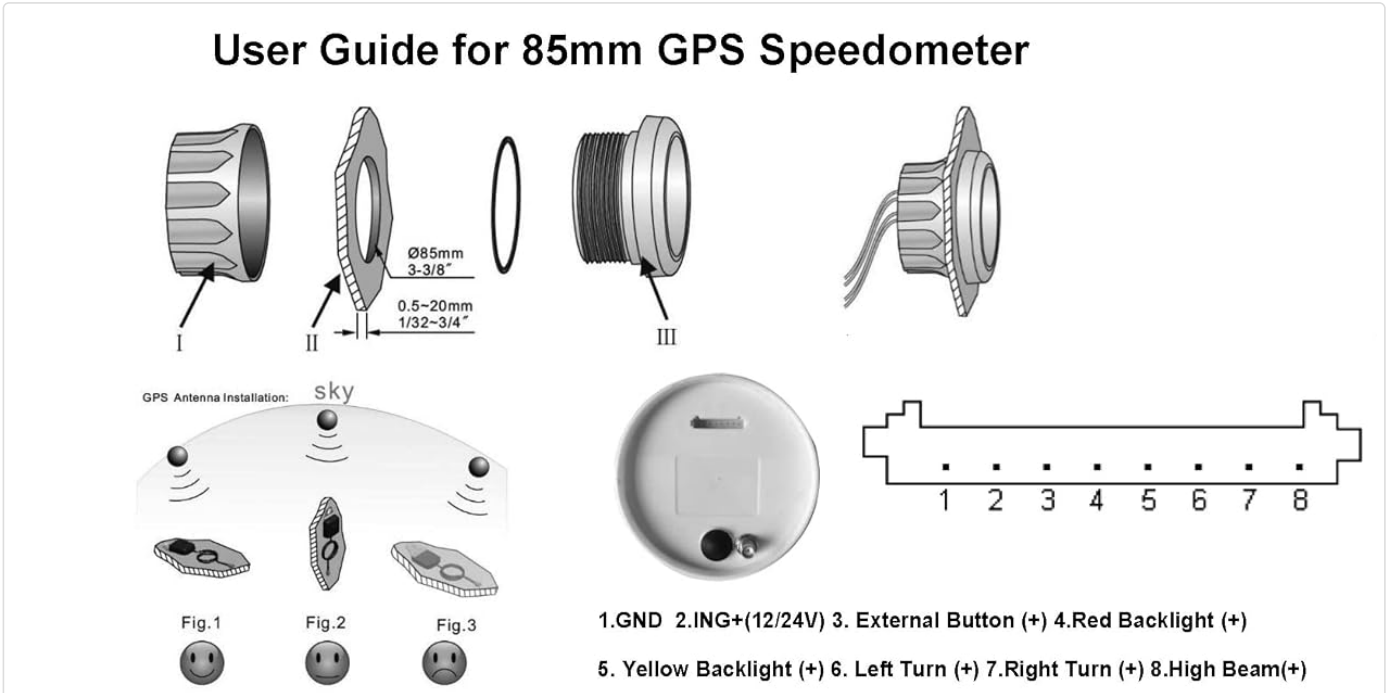
4.2 Wiring Connections

Refer to the wiring diagram below for correct connections. The speedometer operates on a 9-32V DC power supply.

- **Black wire:** Ground (GND)
- **Red wire:** Power (+) (12V/24V)
- **White wire:** External button (+)
- **Red/Yellow wire:** Backlight (+)
- **Blue wire:** Left turn signal indicator (+)
- **Green wire:** Right turn signal indicator (+)
- **White wire (separate from external button):** High Beam indicator (+)

4.3 GPS Antenna Installation

Securely fasten the GPS antenna in a location with a clear, unobstructed view of the sky. This is crucial for accurate signal reception. Recommended locations include outdoors or inside the front windscreen. Connect the antenna cable to the designated socket on the back of the gauge. Do not cut or modify the antenna cable.



1. Cut an 85mm (3 3/8") hole in the panel (II) allow a clearance of . behind the panel.
2. Remove fastening ring (I), insert gauge from front. Tighten gauge (III) using fastening ring (I)
3. Connect cables according to the diagram. Choose red or yellow background light.
4. Securely fasten the GPS antenna, preferably outdoors (or inside front windscreen) so that it has a clear view of the sky to pick up satellite signals. Connect the antenna cable to socket on the gauge. Do not cut cable.
5. After turning power on, allow the gauge to sample satellite signal for 1 minute.
6. All data is for reference only and should not be trusted as sole navigation source.

Function Select : "ODO" , "BUZZ"

Press and hold on the back button or **external button**, then turn on the power supply.

The LCD will show ODO, BUZZ, etc.

You can select the function to be set after release button.

1."ODO"(change total odometer)

After selecting "ODO", the LCD will show for example "5000" (5000 km) , press the button to change the flashing digit from 0 to 99999 to set the target odometer value.

2."BUZZ"(change overspeed buzzer alarm threshold value)

After selecting "BUZZ", the LCD will show for example "B 80" (buzzer will be on when speed over 80km/h), press the button to change the flashing digit from 10 to 240 to set target overspeed buzzer alarm threshold value.

Please noted: After setting, you should disconnect both Power+ and GND, and then reconnect the two cable, then it will save the setting. If you just cut Power +, then it'll not work properly.

3. Switch Odometer & Trip Odometer

The LCD will show Total Odometer as default. Quick press the button to switch show Trip Odometer. Long Press to reset the Trip Odometer to Zero.

Image: User guide diagram illustrating mounting, GPS antenna placement, and wiring connections.

5. Operating Instructions

5.1 Initial Power-On and GPS Signal Acquisition

After connecting power, allow the gauge approximately 1 minute to acquire a satellite signal. The speedometer will display speed and odometer readings once a stable GPS signal is established. All data is for reference only and should not be trusted as the sole navigation source.

5.2 Backlight Selection

The speedometer supports red and yellow backlights. The specific method for switching between backlight colors is typically controlled via the wiring (Red/Yellow wire) or an internal setting. Refer to the wiring diagram for backlight connection.



Image: Speedometer with red backlight.



Image: Speedometer with yellow backlight.

5.3 Function Selection (ODO / BUZZ)

To access the function selection menu:

1. Press and hold the external button (or the button on the back of the gauge).
2. While holding the button, turn on the power supply to the speedometer.
3. The LCD will display options such as "ODO" or "BUZZ".
4. Release the button to select the currently displayed function.

5.3.1 Adjusting Total Odometer (ODO)

1. Select "ODO" from the function selection menu.
2. The LCD will show the current odometer value (e.g., "5000" for 5000 miles/km).
3. Press the button repeatedly to change the flashing digit from 0 to 9 to set your desired total odometer value.

5.3.2 Adjusting Overspeed Buzzer Alarm (BUZZ)

1. Select "BUZZ" from the function selection menu.
2. The LCD will show the current alarm threshold (e.g., "B 80" for a buzzer at 80 km/h or mph).

3. Press the button repeatedly to change the flashing digit from 10 to 240 to set your desired overspeed alarm threshold.

5.3.3 Saving Settings

After making any adjustments in the ODO or BUZZ settings, you**must** disconnect both the Power (+) and Ground (GND) wires, then reconnect them. This action saves the new settings. Simply cutting the Power (+) wire alone will not save the settings.

5.4 Switching and Resetting Trip Odometer

The LCD defaults to showing the Total Odometer. A quick press of the external button will switch the display to show the Trip Odometer. To reset the Trip Odometer to zero, press and hold the external button while the Trip Odometer is displayed.

6. Maintenance

The ELING GPS Speedometer is designed for durability and requires minimal maintenance. Keep the gauge clean and dry. Avoid using abrasive cleaners or solvents that could damage the display or housing. Periodically check wiring connections for tightness and corrosion.

7. Troubleshooting

- **Speedometer reading erratic or stuck at 0:** Ensure the GPS antenna has a clear, unobstructed view of the sky. Poor signal reception can cause inaccurate readings or prevent the speedometer from functioning.
- **Odometer counts up continuously on startup:** This indicates the unit is searching for a GPS signal. Ensure the antenna is properly connected and positioned for optimal reception. The odometer will stabilize once a signal is acquired.
- **Backlight, turn signals, or high beam indicators not working:** Verify that the speedometer is powered on. These indicators will only function when the unit receives power. Check the specific wiring connections for these functions as per the diagram.
- **External button not functioning:** Ensure the white wire for the external button is correctly connected to the button, and the other terminal of the button is connected to ground.
- **Settings not saving after adjustment:** Remember to disconnect both the Power (+) and Ground (GND) wires, then reconnect them, after making any changes to ODO or BUZZ settings.
- **Inaccurate readings:** While GPS speedometers are generally accurate, environmental factors can sometimes affect precision. Ensure the antenna is not obstructed. If persistent inaccuracy occurs, contact customer support.

8. Specifications

Feature	Specification
Brand	ELING
Model	TNG125MPHWS
Part Number	EL-PART-0000012
Material	Plastic

Item Dimensions (L x W x H)	3.35 x 3.35 x 2.17 inches
Item Weight	0.34 Kilograms
Working Voltage	9-32V DC
Speed Range	0-125 MPH
Odometer Range	0-999999 miles
Backlight Colors	Red, Yellow
Indication Lights	Left Turn, High Beam, Right Turn

9. Product Video

Watch the official product video for a visual overview of the ELING Universal GPS Speedometer's features and operation.

Your browser does not support the video tag.

Video: ELING Universal GPS Speedometer 0-125MPH Odometer. This video demonstrates the speedometer's functionality and appearance.

10. Warranty and Support

All ELING products are new and come with installation instructions in the package. For any issues, questions, or warranty claims, please contact ELING customer support. Ensure you have your product model number (TNG125MPHWS) and purchase details available when contacting support.
You can find more information and contact details by visiting theELING Store on Amazon.

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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