ELING EL0222

ELING Universal GPS Speedometer User Manual

Model: EL0222

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your ELING Universal GPS Speedometer. Please read this manual thoroughly before installation and use to ensure proper function and safety. This speedometer is designed for a wide range of vehicles, providing accurate speed and mileage data via GPS.

Safety Information

- Ensure the vehicle's power is disconnected before performing any installation or wiring.
- All wiring should be done by a qualified professional to prevent damage to the product or vehicle.
- Do not cut the GPS antenna cable. This can impair signal reception.
- Mount the speedometer securely to prevent it from becoming a projectile during vehicle movement.
- Operating voltage is 9-32V. Ensure your vehicle's electrical system is within this range.

Package Contents

Verify that all items are present in the package:

- ELING Universal GPS Speedometer (85mm)
- GPS Antenna
- Wiring Harness
- Mounting Nut and Washer
- External Button (for settings)
- User Manual (this document)



Image: The ELING GPS Speedometer shown with its GPS antenna, wiring harness, and external button.

Setup and Installation

Follow these steps for proper installation of your GPS speedometer:

1. **Prepare the Dashboard:** Open an 85mm (3 3/8") hole in the dashboard. Ensure there is a clearance of at least 55mm (2 3/16") behind the panel for the gauge to fit.

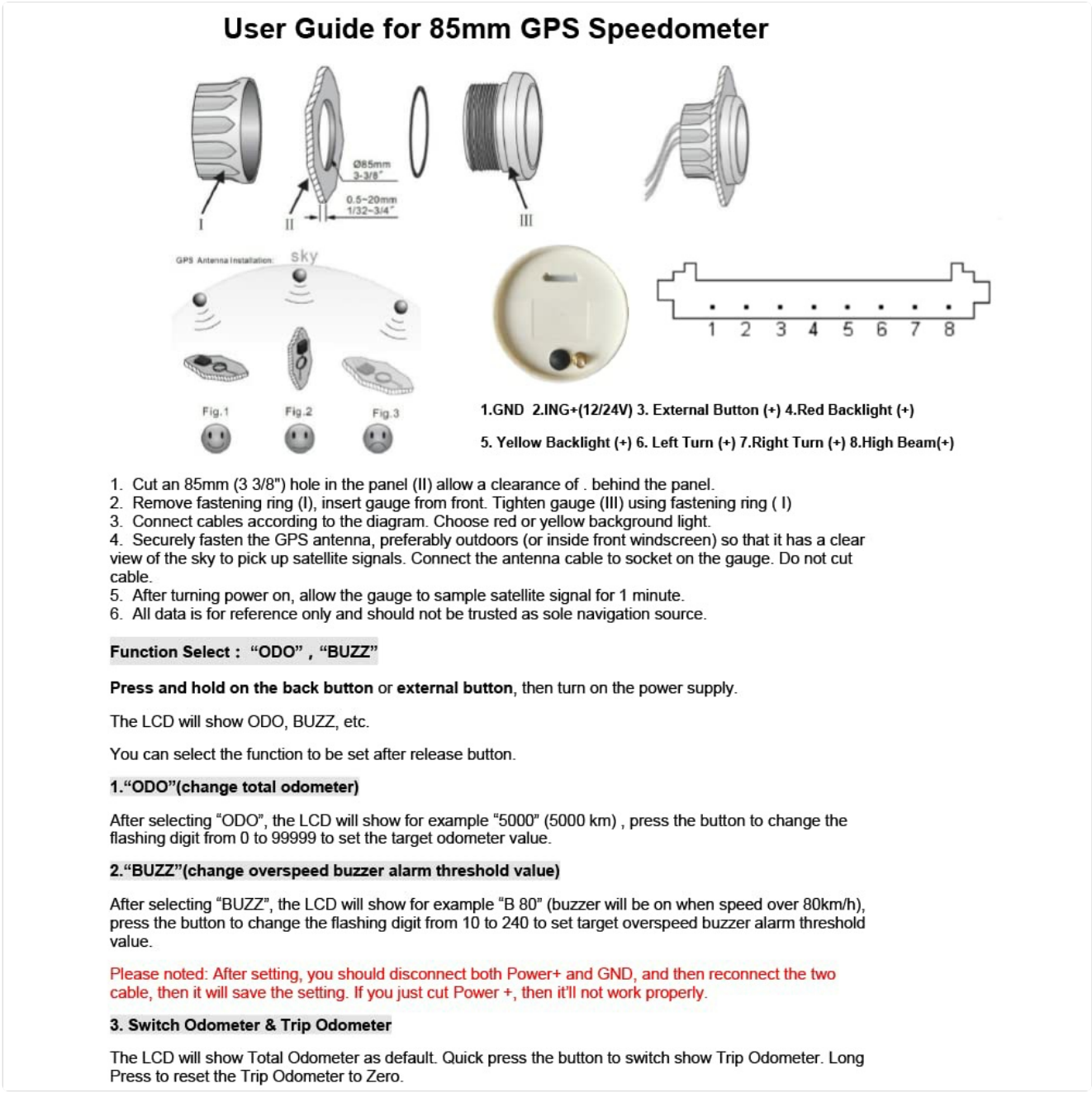


Image: User guide diagram illustrating the required hole size and clearance for installation, along with wiring pinout.

2. **Insert the Gauge:** Remove the fastening ring. Insert the gauge from the front of the dashboard.
3. **Secure the Gauge:** Install the fastening ring from the rear of the dashboard and tighten it securely to hold the gauge in place.



Image: Side profile of the speedometer, illustrating its depth and the threaded section for the fastening ring.

4. **Connect Wiring:** Connect the cables according to the provided wiring diagram. The wiring connections are as follows:
    - **Black Wire:** GND (Ground)
    - **Red Wire:** Power (+) (9-32V DC)
    - **White Button Wire:** External Button (+)
    - **Red/Yellow Wire:** Backlight (+)
    - **Blue Wire:** Left Turn Indicator
    - **Green Wire:** Right Turn Indicator
    - **White Wire:** High Beam Indicator

    You can choose between red or yellow backlight by connecting the corresponding wire.
5. **GPS Antenna Placement:** Securely fix the GPS antenna. For optimal signal reception, place it outdoors or inside the windshield with a clear view of the sky.
6. **Connect GPS Antenna:** Connect the antenna cable to the socket located at the back of the gauge**Do not cut the antenna cable.**
7. **Initial Signal Acquisition:** After powering on, allow the gauge approximately 1 minute to acquire satellite signals.

Operating Instructions

The ELING GPS Speedometer provides real-time speed, total odometer, and trip odometer readings. It also features an overspeed alarm.

Display and Indicators



Image: Front view of the speedometer, showing the speed dial (km/h), digital odometer, and indicator icons for high beam and turn signals.

- **Speed Display:** Analog needle indicates speed in km/h.
- **Digital Display:** Shows total odometer (ODO) or trip odometer (TRIP).
- **Indicator Lights:** Separate indicators for Left Turn, Right Turn, and High Beam.
- **Backlight:** Red or yellow backlight options are available.

Function Selection and Settings

To access settings, press and hold the back button (or external button) while turning on the power supply. The LCD will display "ODO", "BUZZ", etc. Release the button to select the desired function.

1. Setting Total Odometer (ODO)

- Select "ODO" from the function menu.
- The LCD will show the current odometer value (e.g., "5000" for 5000 km).
- Press the button repeatedly to change the flashing digit from 0 to 999999 to set your desired total odometer value.

2. Setting Overspeed Alarm (BUZZ)

- Select "BUZZ" from the function menu.
- The LCD will show the current alarm threshold (e.g., "B.80" for buzzer on when speed exceeds 80 km/h).
- Press the button repeatedly to change the flashing digit from 10 to 240 to set your desired overspeed buzzer alarm threshold value.

Important Note: After making any settings, you must disconnect both the Power+ and GND wires, and then reconnect them to save the settings. Simply cutting Power+ alone will not save the settings properly.

3. Switching Odometer & Trip Odometer

- The LCD will show the Total Odometer (ODO) by default.
- Quickly press the button to switch the display to the Trip Odometer (TRIP).
- Long press the button to reset the Trip Odometer to zero.

Maintenance

- Keep the speedometer clean using a soft, dry cloth. Avoid abrasive cleaners or solvents.
- Ensure all electrical connections remain secure and free from corrosion.
- Periodically check the GPS antenna's mounting to ensure it is still firmly in place and has an unobstructed view of the sky.
- No user-serviceable parts inside. Do not attempt to open or repair the unit yourself.

Troubleshooting

Problem	Possible Cause	Solution
Speedometer not powering on.	No power supply; incorrect wiring; blown fuse.	Check power connections (Red wire to +12V/24V, Black wire to GND). Verify fuse in vehicle's circuit.
No speed reading / "NO SIGNAL" displayed.	GPS antenna not connected; antenna obstructed; no satellite signal.	Ensure GPS antenna is securely connected. Relocate antenna to a position with a clear view of the sky. Wait up to 1 minute for signal acquisition.
Settings not saving.	Power not fully cycled after setting.	After making changes, disconnect both Power+ and GND wires, then reconnect them to save.
Inaccurate speed reading.	Poor GPS signal; interference.	Ensure antenna has clear view of sky. Avoid mounting near strong electromagnetic sources.

Specifications

Feature	Detail
Model Number	EL0222
Operating Voltage	9-32V DC
Speed Range	0-125 km/h
Odometer Range	0-999999 km
Mounting Hole Diameter	85 mm (3 3/8 inches)
Clearance Depth Required	55 mm (2 3/16 inches)
Product Dimensions (L x W x H)	8.5 x 8.5 x 5.5 cm
Item Weight	400 Grams
Backlight Colors	Red, Yellow (selectable via wiring)
Material	Plastic
Country of Origin	China

Warranty and Support

ELING products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official ELING brand store on Amazon:

Visit the ELING Store on Amazon

FAQs from ELING:

- **Is the product new?** Yes, all products are new.
- **Are there installation instructions?** Yes, each product comes with installation instructions in the package.
- **How long does the package take to arrive?** This depends on your choice. Details refer to the page view.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

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.

Submit question