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ELING 85mm 2-in-1 GPS Speedometer with Tachometer (White+Stainless Steel, 0-200KM/H)

ELING 2-in-1 GPS Speedometer with Tachometer User Manual

Model: 85mm 2-in-1 GPS Speedometer with Tachometer (White+Stainless Steel, 0-200KM/H)

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your ELING 2-in-1 GPS Speedometer with Tachometer. Please read this manual thoroughly before installation and use to ensure proper function and safety. This device is designed for a wide range of vehicles including cars, motorcycles, ATVs, UTVs, trucks, boats, and yachts.

2. Product Overview

The ELING 2-in-1 GPS Speedometer with Tachometer combines essential vehicle monitoring functions into a single, compact unit. It features a GPS-based speedometer for accurate speed and mileage tracking, along with a tachometer for engine RPM monitoring. The unit is designed for durability and clear readability in various conditions.

2.1. What's in the Box

- One (1) ELING 2-in-1 GPS Speedometer with Tachometer Gauge
- One (1) GPS Antenna
- One (1) Wiring Harness
- One (1) External Button
- One (1) User Guide (this manual)



Figure 2.1: Included components of the ELING 2-in-1 GPS Speedometer with Tachometer. Shown are the main gauge unit, GPS antenna, wiring harness, and an external control button.

2.2. Product Features

- Integrated GPS Speedometer and Tachometer.
- Wide Working Voltage: 9-32V.
- Amber Backlight for enhanced visibility.
- Indication Lights: LEFT, HIGH BEAM, RIGHT.
- Reverse Polarity Protection.
- Anti-fogging Performance.
- GPS Blind Area Odometer Compensation: Maintains accurate speed readings even in tunnels or areas with temporary GPS signal loss, utilizing an accelerometer.
- No Stationary Drift: Ensures accurate speed readings when stationary.
- OverSpeed Buzzer Alarm: User-configurable alarm for exceeding set speed limits.
- Total Mileage Adjustable: Mileage range from 0-999999 km.



Figure 2.2: Front view of the ELING 2-in-1 GPS Speedometer with Tachometer, featuring a white dial and stainless steel bezel. The display shows speed, RPM, and indicator lights.



Figure 2.3: The ELING 2-in-1 GPS Speedometer with Tachometer with its amber backlight activated, showing a grey dial for improved night visibility.



Figure 2.4: Side profile of the gauge, illustrating the threaded housing for secure panel mounting.

2.3. Product Video Overview

[redacted]

Video 2.1: An official product video from ELING Parts demonstrating the features, backlight options, connection points, and function settings of the 2-in-1 GPS Speedometer with Tachometer. This video provides a visual guide to the product's capabilities and setup.

3. Setup and Installation

Proper installation is crucial for the accurate and safe operation of your ELING GPS Speedometer with Tachometer. Please follow these steps carefully.

3.1. Mounting the Gauge

- Open an 85mm (3 3/8") hole in the dashboard or mounting panel.
- Ensure a clearance of 55mm (2 3/16”) behind the panel to accommodate the gauge and wiring.
- Insert the gauge into the hole.

- Secure the gauge using the provided fastening ring. Tighten the fastening ring until the gauge is firmly in place.

3.2. Wiring Connections

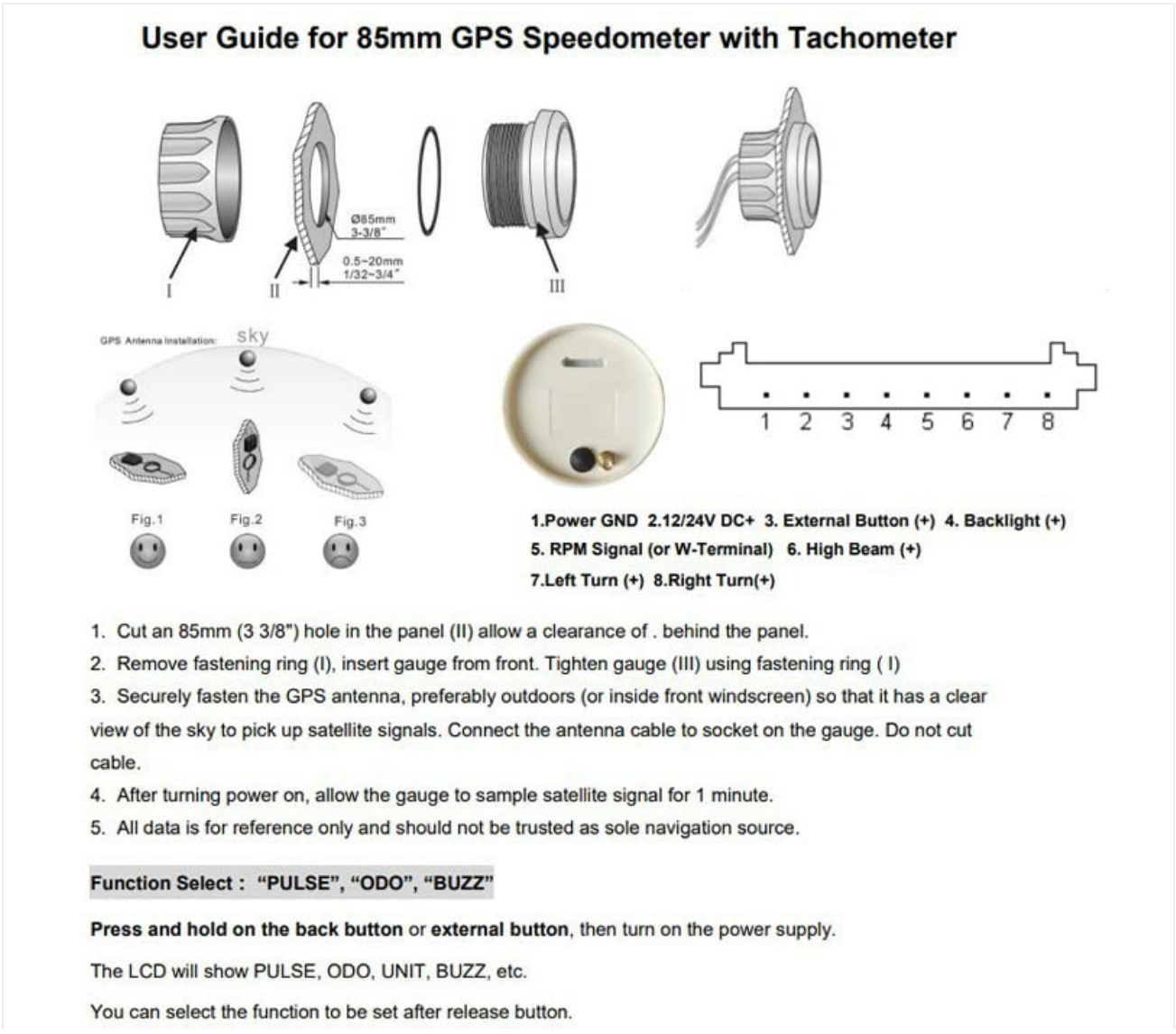
Connect the wiring harness according to the following pin assignments:

- **Black:** Ground (-)
- **Red:** ING+ (12/24V Power Supply)
- **Red (separate wire):** Amber Backlight (+)
- **Orange:** RPM Signal (or W-Terminal)
- **Blue:** High Beam Indicator
- **Green:** Left Turn Light Indicator
- **White:** Right Turn Light Indicator

For the external button connection, connect one pin of the external button to the white wire and the other pin to the black wire.

3.3. GPS Antenna Installation

Securely fasten the GPS antenna, preferably outdoors or inside the front windscreen, ensuring it has a clear view of the sky to pick up satellite signals. Connect the antenna cable to the dedicated socket at the back of the gauge. **Do not cut the antenna cable.**
After turning on the power, allow the gauge to sample satellite signals for approximately one minute. GPS data is for reference only and should not be trusted as the sole navigation source.



1. "PULSE" for RPM Sensor or W-terminal

After selecting "PULSE", unit is o.01 pulses/round. For example, if LCD shows 100, it means 1 pulse per round

How to confirm RPM Ratio?

a. If your sensor is installed on the flying wheel panel, the RPM ratio is equal to the number of gears of the engine.
b. If the speed signal takes from **W-Terminal**, the RPM ratio is equal to the half of the number of poles.

Universal RPM Ratio for Reference:

OutBoard Engine		InterBoard or Gasoline Engine			Diesel Engine
Electric Poles	**RPM Ratio**	Cylinder	Stroke	**RPM Ratio**	**RPM Ratio=Gear Number**
4	**2**	4	4	**2**	
6	**3**	6	4	**3**	
8	**4**	8	4	**4**	
10	**5**	10	4	**5**	
12	**6**	12	4	**6**	

2. "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.

3. "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.

4. 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.

Figure 3.1: Detailed diagrams illustrating the mounting process, wiring connections, and GPS antenna placement for the ELING 2-in-1 GPS Speedometer with Tachometer. This image also provides a visual representation of the connection points and indicator lights.

4. Operating Instructions

The ELING 2-in-1 GPS Speedometer with Tachometer offers several configurable functions accessible via the external button or the button on the back of the unit.

4.1. Function Selection

Press and hold the back button or external button, then turn on the power supply. The LCD will display "PULSE", "ODO", "UNIT", "BUZZ", etc. You can select the desired function by releasing the button at the appropriate display.

4.2. RPM Sensor or W-Terminal (PULSE Setting)

After selecting "PULSE", the unit is 0.01 pulse/round. For example, if the LCD shows 100, it means 1 pulse per round. To confirm the RPM Ratio:

1. If your sensor is installed on the flying wheel panel, the RPM ratio is equal to the number of gears of the engine.
2. If the speed signal is taken from the W-Terminal, the RPM ratio is equal to half the number of poles.

Universal RPM Ratio for Reference:

	Outboard Engine		Inboard or Gasoline Engine		Diesel Engine
Electric Poles	**RPM Ratio**	**Cylinder**	**Stroke**	**RPM Ratio**	**RPM Ratio=Gear Number**
4	2	6	4	3	
6	3	8	4	4	
8	4	10	4	5	
12	6	12	4	6	

4.3. Odometer Adjustment (ODO Setting)

After selecting "ODO", the LCD will show the current odometer value (e.g., "5000" for 5000 km). Press the button to change the flashing digit from 0 to 999999 to set up the target odometer value. This allows you to reset or adjust the total mileage displayed.

4.4. Overspeed Buzzer Alarm (BUZZ Setting)

After selecting "BUZZ", the LCD will show the current alarm threshold (e.g., "B.80" for 80 km/h). Press the button to change the flashing digits from 10 to 240 to set the overspeed alarm threshold value. Once set, the buzzer will activate if your speed exceeds this value.
Note: After setting, you should disconnect both Power+ and GND, and then reconnect the two cables. If you just turn off Power+, the setting will not be saved properly.

4.5. Switch Odometer & Trip Odometer

The LCD will show the Total Odometer as default. Quickly press the button to switch between the Trip Odometer and Total Odometer. Press and hold the button to reset the Trip Odometer to Zero.

5. Maintenance

The ELING 2-in-1 GPS Speedometer with Tachometer is designed for durability and requires minimal maintenance. To ensure longevity and optimal performance:

- **Cleaning:** Use a soft, damp cloth to clean the display and bezel. Avoid abrasive cleaners or solvents that could damage the surface.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.
- **Environmental Protection:** While designed for various environments, avoid prolonged exposure to extreme temperatures or direct water immersion beyond its intended use.

6. Troubleshooting

If you encounter issues with your ELING 2-in-1 GPS Speedometer with Tachometer, consider the following common solutions:

- **No Power/Display Off:**
    - Check all power connections (Red-ING+, Black-Ground) for proper contact and voltage (9-32V).
    - Ensure the fuse (if applicable in your vehicle's circuit) is not blown.
- **Inaccurate Speed/Odometer Readings:**

- Verify the GPS antenna is securely fastened and has a clear, unobstructed view of the sky.
- Allow sufficient time (approx. 1 minute) for the GPS signal to acquire after power-on.
- The unit features GPS Blind Area Odometer Compensation, which should maintain accuracy in tunnels. If issues persist, re-check antenna placement.

- **Tachometer Inaccuracy:**
  - Ensure the Orange RPM Signal wire is correctly connected to the engine's RPM signal source (e.g., W-Terminal of the alternator).
  - Verify the "PULSE" setting is correctly configured according to your engine's specifications (RPM ratio). Refer to Section 4.2.
- **Overspeed Alarm Issues:**
  - Check the "BUZZ" setting to ensure the alarm threshold is correctly set. Remember to disconnect and reconnect power after changing this setting. Refer to Section 4.4.
- **No Backlight:**
  - Check the separate Red wire for the Amber Backlight for proper connection and power.

For further assistance, please refer to the detailed user manual PDF provided with your product or contact ELING customer support.

7. Specifications

Brand:	ELING
Model:	85mm 2-in-1 GPS Speedometer with Tachometer (White+Stainless Steel, 0-200KM/H)
Product Dimensions:	3.35 x 3.35 x 2.17 inches; 1.1 Pounds
Item Weight:	0.5 Kilograms
Material:	Plastic
Working Voltage:	9-32V
Speed Range:	0-200 KM/H
Tachometer Range:	0-8000 RPM
Mileage Range:	0-999999 km (Resetable)
Backlight:	Amber
ASIN:	B0836HL863
UPC:	610825819918
Date First Available:	August 3, 2017

8. Warranty and Support

For information regarding product warranty, returns, or technical support, please refer to the official ELING brand store or contact the seller directly through your purchase platform. ELING is committed to providing quality products and customer satisfaction.
You can visit the ELING Store for more information:ELING Store on Amazon

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