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ELING B07KP8DC7N

ELING Universal Digital GPS Speedometer User Manual

Model: B07KP8DC7N

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your ELING Universal Digital GPS Speedometer. This versatile gauge is designed for a wide range of applications including racing cars, boats, yachts, and motorcycles, operating on 12V or 24V systems. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Product Features

- **Wide Voltage Compatibility:** Operates on 9-32V DC systems.
- **Adjustable Speed Range:** Displays speed from 0-999 in MPH, Knots, or KM/H.
- **Odometer and Trip Meter:** Features an adjustable odometer (0-999999 Mi, NMI, KM) and a resettable trip meter.
- **GPS Blind Area Compensation:** Ensures accurate mileage tracking even in areas with temporary GPS signal loss.
- **Overspeed Buzzer Alarm:** Provides an audible alert for exceeding a set speed limit.
- **Integrated Indicator Lights:** Includes indicators for high beam, neutral, fuel level, oil pressure, right turn, left turn, and hazard warning.
- **Compact Design:** 52mm (2-1/16") diameter for easy dashboard integration.



Figure 2.1: Front view of the ELING Digital GPS Speedometer, displaying speed, odometer, and trip meter readings.

3. Specifications

Brand	ELING
Model Number	B07KP8DC7N
Product Dimensions	2.05 x 2.05 x 2.17 inches (52mm diameter)
Item Weight	6.38 Ounces
Material	Stainless Steel
Working Voltage	9-32V DC
Speed Range	0-999 (MPH, Knots, KM/H adjustable)

Mileage Range	0-999999 (Mi, NMI, KM available)
UPC	680465131275

4. Installation Guide

Follow these steps for proper installation of your GPS speedometer:

1. **Panel Preparation:** Open a 52mm (2-1/16") diameter hole in your dashboard. Ensure a clearance of 55mm (2-3/16") behind the panel to accommodate the gauge.
2. **Gauge Mounting:** Remove the fastening ring from the gauge. Insert the gauge through the dashboard panel from the front. Securely fasten the gauge using the fastening ring from the rear.
3. **Wiring Connections:** Connect the wires according to the provided wiring diagram. Refer to Section 4.1 for detailed wiring instructions.
4. **GPS Antenna Installation:** Securely fasten the GPS antenna, ideally outdoors or inside the front windscreen, ensuring it has a clear view of the sky to receive satellite signals. Connect the antenna cable to the designated socket at the back of the gauge. **Do not cut the antenna cable.**
5. **Initial GPS Signal Acquisition:** After powering on the device, allow approximately 1 minute for the gauge to search for and acquire a satellite signal. Once acquired, the gauge will display the current speed in the selected unit (knots/km/h/mph).



Figure 4.1: ELING GPS Speedometer kit components.



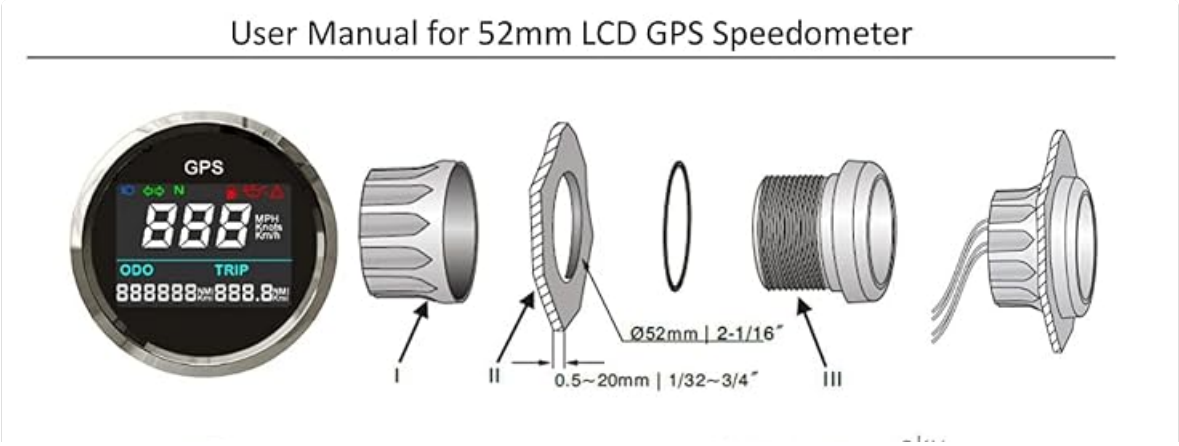
Figure 4.2: Side view showing the threaded housing for panel mounting.

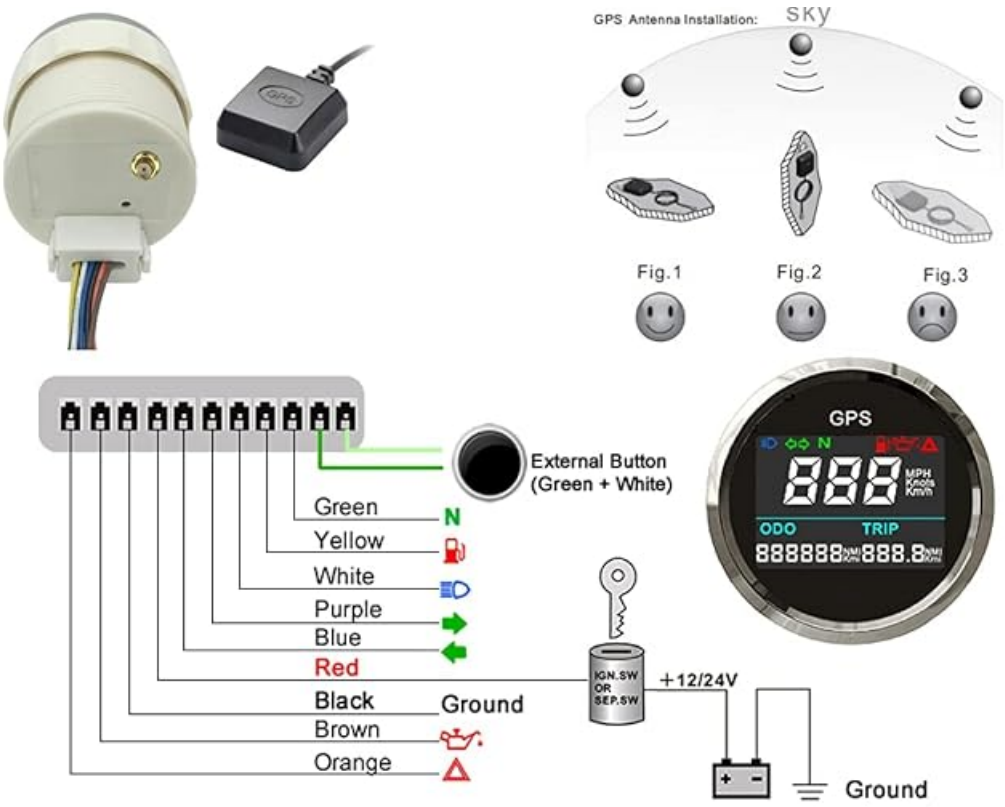


Figure 4.3: Rear view with wiring harness and GPS antenna port.

4.1 Wiring Diagram and Connections

Refer to the diagram below for correct wiring connections. Ensure all connections are secure to prevent malfunction.





INSTALLATION GUIDE

1. Cut an Φ52mm (2-1/16") hole in the panel (II) and allow a clearance of 55mm (2 3/16") behind the panel to fit the gauge.
2. Remove fastening ring (I), insert gauge through panel from the front. Tighten gauge (III) using fastening ring (I)from the rear.
3. Connect cables according to the diagram/label.
4. Connect GPS Antenna to the socket in the back of the gauge and put it in the good position pointing the sky directly.
5. After turning on the power, allow the gauge to search for satellite signal for 1 minute. The gauge will show speed in knots/km/mph.

Function Select: "ODO", "BUZZ" , "UNIT"

Firstly, please use External Button or use a pin to press the internal button through the back hole.

Press and hold on the button, then turn on the power supply.
The LCD will show ODO, BUZZ, etc.
You can select the function after releasing the button.

1."ODO"(change total odometer)

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

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

After selecting "BUZZ", e.g. 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 up the target overspeed buzzer alarm threshold value.

3."UNIT"(switch unit between km/h, mph or knots)

After selecting "UNIT", the LCD will show km/h, mph or knots. Please choose your favorable unit.

4.How to reset trip odometer to zero?

Press the button at the backside of GPS speedometer, or the external button. Hold on for 2~3 seconds, then the trip odometer will reset to zero.

Figure 4.4: Wiring diagram for the ELING GPS Speedometer.

Wire Color	Function
Red	Power (+) 12V/24V
Black	Power (-) Ground
Green + White	External Button (for function selection)
Green	Neutral (N) Indicator
Yellow	Fuel Level Indicator
White	High Beam Indicator
Purple	Right Turn Indicator
Blue	Left Turn Indicator
Brown	Oil Pressure Indicator
Orange	Hazard Warning Lamp

5. Operation and Function Selection

The gauge features an internal button on the back and an external button (if wired) for function selection and adjustment. To access functions, press and hold the button while the power is on. The LCD will display "ODO", "BUZZ", or "UNIT". Release the button to select the desired function.

5.1 ODO (Change Total Odometer)

To adjust the total odometer reading, select "ODO". The LCD will display "5000" (example). Press the button to change the flashing digit from 0 to 999999. Set the target odometer value and release the button to save.

5.2 BUZZ (Change Overspeed Buzzer Alarm Threshold)

To set the overspeed alarm, select "BUZZ". The LCD will display "B 80" (example, buzzer will activate when speed exceeds 80 km/h). Press the button to change the flashing digit from 10 to 240. Set your desired overspeed buzzer alarm threshold value and release the button to save.

5.3 UNIT (Switch Unit between km/h, mph, or knots)

To change the speed unit, select "UNIT". The LCD will display "km/h", "mph", or "knots". Press the button to cycle through the available units. Release the button to select your preferred unit.

5.4 Reset Trip Odometer

To reset the trip odometer to zero, press the button at the back of the GPS speedometer, or the external button, and hold it for 2-3 seconds. The trip odometer will then reset to zero.

6. Applications

The ELING Universal Digital GPS Speedometer is suitable for a wide range of vehicles and applications, including:

- Automobiles (Cars, Trucks, Buses)
- Motorcycles

- Boats and Yachts
- Recreational Vehicles (RVs)
- Off-road Vehicles



Figure 6.1: Examples of vehicle types compatible with the ELING GPS Speedometer.

7. Troubleshooting

- **No Power:** Check power connections (Red wire to +12/24V, Black wire to Ground). Ensure the vehicle's ignition is on if wired to an ignition-switched circuit.
- **No GPS Signal (Display shows "GPS" but no speed):** Ensure the GPS antenna has a clear, unobstructed view of the sky. Relocate the antenna if necessary. Allow up to 1-3 minutes for initial signal acquisition. Verify the antenna cable is securely connected to the gauge.
- **Inaccurate Speed Reading:** Ensure the GPS antenna is positioned optimally. Compare readings with another GPS-enabled device if possible.
- **Display Malfunction:** Check power supply. If the display remains blank or shows incorrect characters after verifying power, contact customer support.
- **Button Unresponsive:** Ensure the external button (if used) is correctly wired to the Green+White wires. If using the internal button, ensure it is accessible and functioning.

8. Maintenance

- **Cleaning:** Clean the gauge display and bezel with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the surface.
- **Connections:** Periodically check all wiring connections to ensure they remain secure and free from corrosion.
- **Environmental Protection:** While designed for various environments, avoid exposing the gauge to extreme temperatures or direct water spray for extended periods if not rated for such conditions.

9. Warranty and Support

For warranty information or technical support, please contact ELING customer service through the retailer where the product was purchased or visit the official ELING website. Keep your purchase receipt as proof of purchase.

Manufacturer: ELING

Date First Available: August 3, 2017



Figure 9.1: ELING Brand Logo.

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