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Geloo GPS Speedometer 8049

Geloo 85MM GPS Speedometer User Manual

Model: GPS Speedometer 8049

Brand: Geloo

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Geloo 85MM GPS Speedometer. This device is designed for accurate speed measurement and display in various vehicles, including cars, trucks, motorcycles, boats, and yachts. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Figure 1.1: Front view of the Geloo 85MM GPS Speedometer, displaying speed, trip, odometer, voltage, and course over ground (COG).

2. Safety Information

- Ensure the power supply is disconnected before installation or maintenance to prevent electrical shock.
- Verify correct wiring connections according to the provided diagram to avoid damage to the device or vehicle electrical system.
- Do not attempt to disassemble or modify the speedometer. Refer all servicing to qualified personnel.
- Ensure the installation location is secure and does not obstruct the driver's view or vehicle controls.

3. Package Contents

Upon opening the package, verify that all the following items are included:

- 1 x Geloo 85MM GPS Speedometer
- 1 x GPS Speed Sensor (Antenna)

- 1 x Installation Instruction Manual



Figure 3.1: Contents of the product package, including the speedometer, GPS antenna, and instruction manual.

4. Product Overview and Features

The Geloo 85MM GPS Speedometer is designed for durability and precision, featuring a robust construction and comprehensive display capabilities.

4.1. Key Features

- **Gauge Material:** Front cover made of high-quality 316 stainless steel, ABS, and PC material.
- **Waterproof Rating:** IP67 waterproof with anti-fogging curved glass, ensuring durability in marine and outdoor environments.
- **Compatibility:** Suitable for a wide range of vehicles including cars, tractors, trucks, boats, yachts, motorcycles, and caravans.

- **Multiple Speed Units:** Supports KM/H, MPH, and KNOTS, adjustable via a back button.
- **Display Functions:**
    - **GPS SOG (Speed Over Ground):** 0-600 km/h range.
    - **ODO (Odometer):** 0-999999 km, adjustable via back button.
    - **TRIP:** 0-999.9 km, resets on power failure.
    - **COG (Course Over Ground):** Orientation pointer for direction.
    - **Battery Voltage Display:** Shows current system voltage.



Figure 4.1: Detailed view of the speedometer display, indicating SOG, TRIP, ODO, Battery Voltage, COG, and Orientation Pointer.



Figure 4.2: The speedometer submerged in water, demonstrating its IP67 waterproof capability.

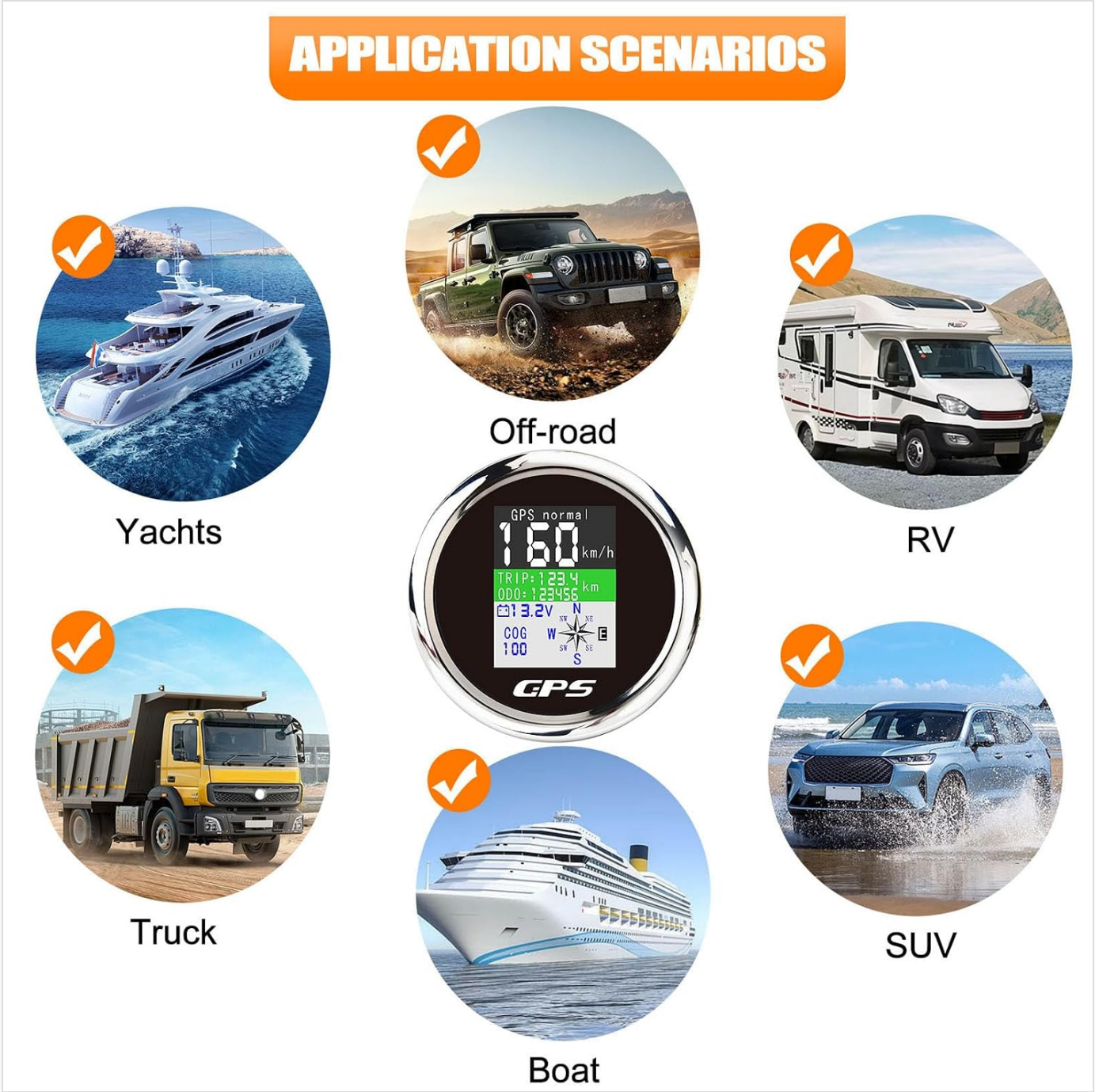


Figure 4.3: Examples of vehicles where the GPS speedometer can be installed, including yachts, off-road vehicles, RVs, trucks, boats, and SUVs.

5. Installation

Follow these steps for proper installation of the GPS speedometer:

1. **Prepare the Mounting Hole:** Before installation, create a circular hole in the dashboard or mounting panel. The required diameter for the gauge is 85mm (3 3/8 inches). Ensure there is a depth clearance of at least 55mm (2 3/16 inches) behind the panel for the gauge body and wiring.
2. **Insert the Gauge:** Carefully insert the speedometer into the prepared hole.
3. **Secure the Gauge:** Use the provided mounting ring and nuts to secure the gauge firmly in place from the back of the panel. Tighten until snug, but do not overtighten.
4. **Connect Wiring:** Refer to the wiring diagram below and connect the power cables.
    - **Black Wire:** Connect to Ground (-)

- **Red Wire:** Connect to 9-30VDC power supply (+)

5. **Connect GPS Antenna:** Plug the GPS antenna cable into the designated port on the back of the speedometer. Position the GPS antenna in a location with a clear view of the sky for optimal signal reception.



Figure 5.1: Rear view of the speedometer, illustrating the GPS antenna port, adjustment button, and power input terminals (Black: Ground, Red: 9-30VDC).



Figure 5.2: The GPS speedometer integrated into a boat's dashboard, demonstrating a typical installation.

6. Operating Instructions

The speedometer is designed for straightforward operation. Once powered on, it will search for a GPS signal. After acquiring a signal, it will display the current speed and other parameters.

6.1. Unit Switching

The speedometer supports multiple speed units: Kilometers per Hour (KM/H), Miles per Hour (MPH), and Knots (KNOTS). To switch between these units, press the button located on the back of the instrument. Each press will cycle through the available units, and the selected unit will be automatically saved.

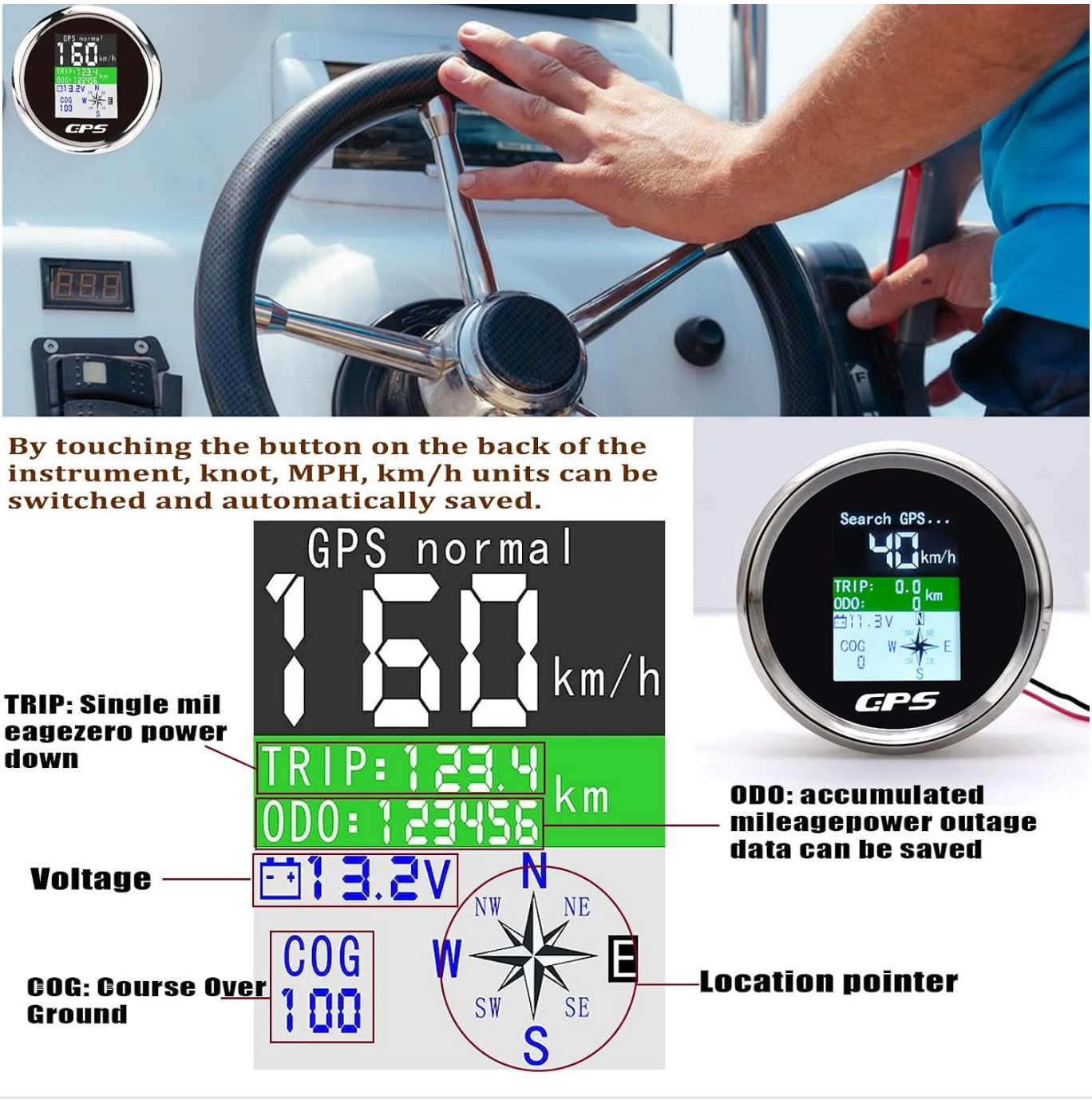


Figure 6.1: The speedometer display indicating the current speed unit (KM/H) and the process of switching units via the rear button.

6.2. Odometer (ODO) Adjustment

The Odometer (ODO) value can be adjusted using the button on the back of the unit. Refer to the detailed instructions provided in the separate owner's manual for specific steps on ODO calibration or reset, if applicable.

6.3. Trip Meter (TRIP)

The TRIP meter measures the distance traveled during a single journey. This value will automatically reset to zero upon power loss or when the device is turned off.

7. Maintenance

To ensure the longevity and optimal performance of your Geloo GPS Speedometer, follow these general maintenance guidelines:

- **Cleaning:** Wipe the display and housing with a soft, damp cloth. Do not use abrasive cleaners or solvents, as they

may damage the surface.

- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.
- **Storage:** If the device will not be used for an extended period, store it in a dry, cool environment away from direct sunlight and extreme temperatures.

8. Troubleshooting

If you encounter issues with your GPS Speedometer, refer to the following common problems and solutions:

- **No Display/Power:**
  - Check power connections (Red wire to 9-30VDC, Black wire to Ground).
  - Verify the vehicle's power supply is active and within the specified voltage range.
  - Check for blown fuses in the vehicle's electrical system.
- **"Search GPS..." Message / No Speed Reading:**
  - Ensure the GPS antenna is securely connected to the speedometer.
  - Relocate the GPS antenna to an area with a clear, unobstructed view of the sky (e.g., away from metal structures, under dense foliage).
  - Allow sufficient time (several minutes) for the GPS receiver to acquire satellite signals, especially during the first use or after a long period of inactivity.
- **Inaccurate Speed Reading:**
  - Ensure the GPS antenna is stable and not moving excessively.
  - Verify that the selected speed unit (KM/H, MPH, KNOTS) matches your desired measurement.

If the problem persists after attempting these solutions, please contact the seller or manufacturer for further assistance.

9. Specifications

Parameter	Value
Model Number	GPS Speedometer 8049
Product Dimensions	12 x 12 x 8 cm
Item Weight	297.67 g (10.5 Ounces)
Material	316 Stainless Steel, Acrylonitrile Butadiene Styrene (ABS), PC
Operating Voltage	9-30VDC
Operating Current	≤100mA
Operating Temperature	-20°C to 70°C
Storage Temperature	-30°C to 80°C
Waterproof Rating	IP67

10. Warranty and Support

For information regarding product warranty, returns, or technical support, please refer to the documentation provided with your purchase or contact the seller directly. Keep your purchase receipt as proof of purchase for warranty claims.

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