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ELING 52mm

ELING 2-inch Digital GPS Speedometer Odometer User Manual

Model: 52mm

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your ELING 2-inch Digital GPS Speedometer Odometer. This instrument is designed for various applications including RC cars, dirt bikes, vans, and marine boats, offering precise speed and odometer readings. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Product Overview

The ELING 2-inch Digital GPS Speedometer Odometer features a red backlight for clear visibility and operates on a 9-32VDC power supply, making it suitable for both 12V and 24V systems. It is designed with 100% waterproof and anti-fogging protection for durability in various environments.

Key Features:

- Digital display for current speed and odometer (ODO).
- Adjustable units: Kilometers per Hour (KM/H), Miles per Hour (MPH), and Knots.
- Red backlight for enhanced visibility in low light conditions.
- Wide operating voltage range: 9-32VDC.
- Waterproof and anti-fogging design.

Figure 2.1: Front view of the ELING 2-inch Digital GPS Speedometer Odometer.

3. Setup and Installation

Follow these steps carefully for proper installation of your GPS speedometer.

3.1 Panel Mounting

1. Cut a 52mm (2 1/16") diameter hole in the desired panel location. Ensure a clearance of at least 70mm (2 3/4") behind the panel for the gauge to fit.
2. Insert the gauge into the prepared hole.
3. Secure the gauge using the provided M4 nut and C-type bracket to seal it firmly in place.

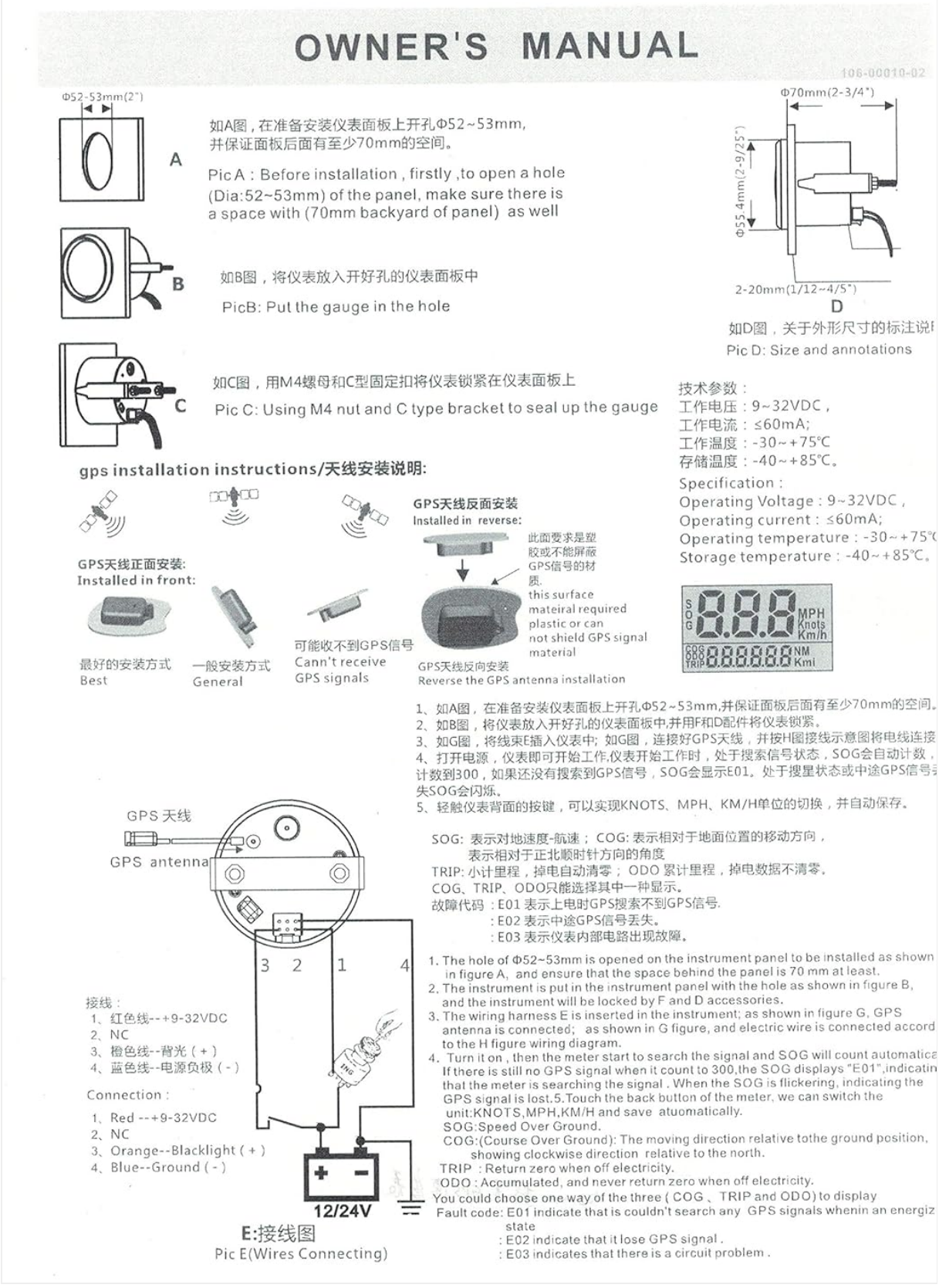

Figure 3.1: Installation diagram for panel mounting.

3.2 GPS Antenna Connection

1. Securely fasten the GPS antenna in a flat position with the black side facing upwards. For optimal signal reception, place it outside or inside the front windscreen, ensuring a clear view of the sky.
2. Connect the antenna cable to the designated socket at the back of the gauge. Do not cut the antenna cable.
3. Upon initial power-on, the GPS speedometer may take approximately 30 seconds to acquire a signal. Subsequent signal acquisition will typically take less than 3 seconds, especially under clear skies.

Figure 3.2: GPS Speedometer and antenna.

3.3 Wiring Connections

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

- **Red Wire:** Connect to +9-32VDC power supply.
- **Blue Wire:** Connect to Ground (-).
- **Orange Wire:** Connect to Red Backlight (+).

Figure 3.3: Rear view with wiring harness and GPS antenna port.

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Video 3.1: Demonstrates the connection and initial function of the ELING 52mm Digital GPS Speedometer Odometer, including power-on sequence and unit adjustment.

4. Operating Instructions

4.1 Display Information

The speedometer displays the current speed and the accumulated odometer (ODO) reading. The ODO value is accumulated and does not reset when power is turned off.

4.2 Adjusting Units

To switch between speed units (KM/H, MPH, KNOTS), press the black button located on the back of the gauge. Each press will cycle through the available units. The selected unit will be saved automatically.

Figure 4.1: Location of the black button for unit adjustment.

5. Maintenance

The ELING GPS Speedometer Odometer is designed for durability and requires minimal maintenance. To ensure longevity and clear readings:

- Regularly clean the display with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- Ensure all electrical connections remain secure and free from corrosion.
- Periodically check the GPS antenna placement to ensure it maintains a clear view of the sky for optimal signal reception.

6. Troubleshooting

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

Error Codes:

- **E01:** GPS cannot search for a GPS signal when powered on.
- **E02:** GPS signal lost during operation.
- **E03:** The internal circuit of the instrument is faulty.

General Troubleshooting Tips:

- **No Display/Power:** Check all wiring connections, especially the power (red) and ground (blue) wires, to ensure they are secure and receiving the correct voltage (9-32VDC).
- **No GPS Signal (E01/E02):** Verify that the GPS antenna has a clear, unobstructed view of the sky. Ensure the antenna cable is securely connected to the gauge and is not damaged. Move the vehicle to an open area if indoors or under heavy cover.
- **Incorrect Readings:** Ensure the correct unit (KM/H, MPH, KNOTS) is selected. If readings are consistently inaccurate, recheck the GPS antenna placement.
- **Display Issues:** If the display is dim or flickering, check the power supply. If an E03 error occurs, the internal circuit may be faulty, and professional assistance or replacement may be required.

7. Specifications

Specification	Value
Product Dimensions	2.05 x 2.05 x 2.76 inches
Item Weight	7.4 ounces
Operating Voltage	9-32VDC
Operating Current	≤60mA
Operating Temperature	-30°C to +75°C
Storage Temperature	-40°C to +85°C
Material	Plastic
Manufacturer	ELING
UPC	610825803450

8. Warranty and Support

For warranty information or technical support, please refer to the documentation included with your product or contact ELING customer service directly. Ensure you have your product model number and purchase details available when seeking support.
You can visit the official ELING store for more information: ELING Store on Amazon

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