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Aramox 9-32V DC LED GPS Speedometer Odometer

Aramox 9-32V DC LED GPS Speedometer and Odometer Instruction Manual

Model: 9-32V DC LED GPS Speedometer Odometer

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Aramox 9-32V DC LED GPS Speedometer and Odometer. This versatile gauge is designed for a wide range of applications including cars, engines, boats, RVs, yachts, and engineering machinery. It features a clear OLED screen, adjustable backlight, and displays speed, Course Over Ground (COG), and mileage information.

2. Safety Information

- Always disconnect the vehicle's power supply before installation to prevent electrical shock or damage to the device.
- Ensure all wiring connections are secure and correctly matched to avoid short circuits or malfunction.
- Do not attempt to disassemble or modify the speedometer. Unauthorized modifications may void the warranty and pose safety risks.
- Keep the device away from extreme temperatures, direct sunlight for prolonged periods, and corrosive substances.
- Professional installation is recommended for optimal performance and safety.

3. Package Contents

Please check the package for the following items:

- 1 x GPS Speedometer
- 1 x GPS Receiver
- 1 x Instruction Manual

4. Specifications

Feature	Description
Item Type	GPS Speedometer
Material	Stainless Steel + ABS

Feature	Description
Dial Color	Black
Screen Type	OLED Screen
Dial Backlight Color	7 Colors (manual adjustment or automatic switching)
Signal Source	GPS
Speed Range	0-200 KM/H
Working Voltage	9-32V DC (Max 36V)
Installation Caliber	Approx. 85mm / 3.35in
Required Dashboard Space	At least 55mm / 2.17in behind the dashboard
Working Temperature	-30℃ to +75℃
Storage Temperature	-40℃ to +80℃
Product Dimensions	3.3 x 3.3 x 2.1 inches
Item Weight	3.52 ounces (0.1 Kilograms)
Applicable Scenarios	Automobiles, engines, boats, RVs, yachts, engineering machinery, etc.

5. Setup and Installation

Follow these steps for proper installation of your GPS speedometer:

1. **Prepare the Mounting Location:**
   Ensure there is a circular opening with a diameter of approximately 85mm (3.35in) in your dashboard. Verify that there is at least 55mm (2.17in) of clear space behind the dashboard for the speedometer body and wiring.
2. **Connect the GPS Receiver:**
   Attach the provided GPS receiver to the designated port on the back of the speedometer. Position the GPS receiver in a location with a clear view of the sky for optimal signal reception.
3. **Wiring Connections:**
   Connect the wiring harness to the speedometer and then to your vehicle's electrical system according to the diagram below. Ensure all connections are secure.



Image: Rear view of the speedometer showing the wiring label and connections.

- **1 Black:** Ground (-)
- **2 Red:** 9-32V DC (Positive Power Supply)
- **3 Blue:** Right Turn Signal
- **4 Yellow:** Backlight
- **5 White:** Left Turn Signal
- **6 Brown:** Adjust Button
- **7 Green:** High Beam Indicator



Image: The back of the speedometer showing the connected GPS receiver and wiring harness.

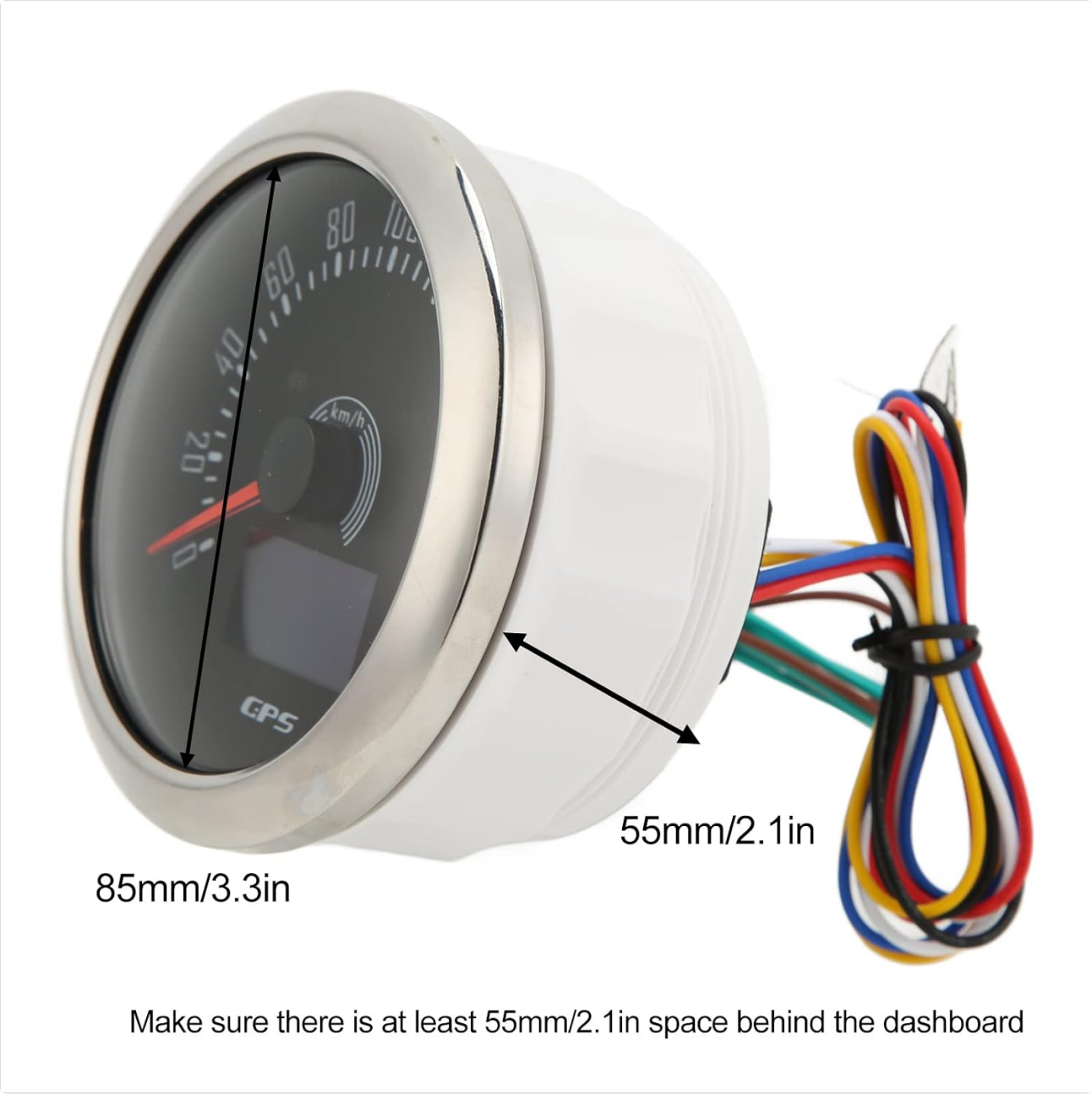


Image: Diagram illustrating the 85mm installation caliber and 55mm required depth behind the dashboard.

4. **Secure the Speedometer:**
   Insert the speedometer into the dashboard opening and secure it using the provided mounting hardware.
5. **Test Functionality:**
   Reconnect the vehicle's power supply and verify that the speedometer powers on and displays information correctly.



Image: The Aramox GPS Speedometer integrated into a boat's dashboard, showing its aesthetic fit.



Image: The speedometer with its wiring harness, set against a backdrop of RVs, indicating its suitability for such vehicles.

6. Operating Instructions

Once installed and powered on, the speedometer will begin to acquire a GPS signal. This may take a few moments. The display will show various information:

- **Speed Display:** The main needle indicates your current speed in KM/H, ranging from 0 to 200 KM/H.
- **COG (Course Over Ground):** This digital display shows the direction of your navigation.
- **Single Mileage (TRIP):** The default display shows single trip mileage. This value is saved even when power is off. To clear the single mileage, press and hold the rubber button on the back of the speedometer for five seconds.
- **Accumulated Mileage (ODM):** This displays the total accumulated mileage. This value cannot be cleared and is retained even when power is off.
- **Backlight Adjustment:** The 7-color backlight can be adjusted manually or set to automatically switch colors. Use the 'Adjust' wire (Brown) or the rubber button on the back to cycle through options.
- **Turn Signal and High Beam Indicators:** Integrated LED indicators for left turn, right turn, and high beam are present on

the dial.



Image: The illuminated speedometer display, highlighting the speed needle, digital COG, TRIP, and ODOMETER readings, along with turn signal indicators.

7. Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the display and housing. Avoid abrasive cleaners or solvents that could damage the surface.
- **Inspection:** Periodically check all wiring connections to ensure they remain secure and free from corrosion.
- **Environmental Protection:** The speedometer is designed to be waterproof and dustproof with anti-fog curved glass, making it suitable for various environments. However, avoid prolonged exposure to extreme conditions beyond the specified operating temperatures.



Image: A close-up view of the speedometer's bezel, highlighting its stainless steel and ABS construction, designed for durability in various environments.

8. Troubleshooting

- **No Power:** Check the power (Red) and ground (Black) wire connections. Ensure the voltage supply is within the 9-32V DC range.
- **No Speed Reading** / **Inaccurate Speed:** Verify that the GPS receiver is properly connected and has a clear view of the sky. Allow sufficient time for the GPS signal to be acquired. Ensure the vehicle is moving for speed to register.
- **Backlight Not Working** / **Incorrect Color:** Check the backlight (Yellow) wire connection. Use the 'Adjust' wire (Brown) or the rubber button on the back to cycle through backlight settings.
- **Turn Signals** / **High Beam Indicators Not Working:** Check the respective Blue (Right Turn), White (Left Turn), and Green (High Beam) wire connections to your vehicle's signal circuits.
- **Display Issues:** If the OLED screen is blank or shows garbled text, ensure stable power supply. If the issue persists, contact customer support.

9. Warranty and Support

Aramox products are manufactured to high-quality standards. For warranty information or technical support, please refer to the purchase documentation or contact your retailer. Keep your proof of purchase for any warranty claims.

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Submit question