ARTILAURA AR-CX8151B

ARTILAURA AR-CX8151B 7000 RPM Marine Tachometer User Manual

Model: AR-CX8151B | Brand: ARTILAURA

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your ARTILAURA AR-CX8151B 7000 RPM Marine Tachometer. This gauge is designed for precise engine RPM measurement and features a built-in hour meter, suitable for various 9-32V applications including marine vessels, cars, and trucks.

Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

2. Product Features

- **RPM Range:** Displays engine revolutions from 0 to 7,000 RPM.
- **Multi-Color Backlight:** Features 7 selectable backlight colors (Blue, Red, Green, Teal, Purple, White, Yellow) to match your dashboard or preference.
- **Integrated Hour Meter:** Tracks engine operating hours from 0.0 to 99999.9 hours.
- **Durable Construction:** 85mm (3-3/8") gauge with a 316 Stainless Steel bezel and curved anti-fog glass for clear visibility.
- **Wide Voltage Compatibility:** Operates on 9-32V DC power systems.
- **Waterproof Rating:** IP67 waterproof and dustproof grade, suitable for marine environments.
- **Engine Compatibility:** Compatible with 4, 6, 8, 10, and 12-cylinder gas-powered engines.

3. Package Contents

Verify that all items are present in the package:

- 1 x ARTILAURA AR-CX8151B Tachometer Gauge
- 1 x Wiring Cable Harness

- 1 x Instruction Manual (this document)

4. Specifications

Specification	Value
Fixing Dimension	85mm (3-3/8 inches)
Indicating Range	0-7000 RPM
Working Voltage	9-32V DC
Signal Input	Pulse (from ignition coil, alternator, or RPM sensor)
Engine Hours	0.0-99999.9H
Backlight Colors	7 Colors (Blue, Red, Green, Teal, Purple, White, Yellow)
Waterproof/Dustproof Grade	IP67
Working Current	<120mA
Working Temperature	-30°C to 70°C (-22°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Material	316L Stainless Steel Bezel + Anti-fog Glass
Product Dimensions	9.68 x 9.68 x 5.59 cm (3.81 x 3.81 x 2.2 inches)
Item Weight	172 g (0.38 lbs)

5. Safety Information

- Always disconnect the vehicle's battery before performing any electrical work to prevent short circuits and electrical shock.
- Ensure all wiring connections are secure and properly insulated to prevent corrosion and electrical faults.
- Do not attempt to modify the gauge or its wiring, as this may void the warranty and cause damage.
- Consult a qualified technician if you are unsure about any installation steps.

6. Setup and Installation

6.1 Mounting Dimensions

The tachometer requires a standard 85mm (3-3/8 inch) diameter mounting hole. Ensure sufficient depth for the gauge body and wiring connections.



Figure 1: Tachometer Dimensions (Front and Back)

6.2 Wiring Connections

Refer to the wiring diagram below for correct connections. The cable length is approximately 13 inches.



Figure 2: Wiring Diagram and Color Change Button Location

- **Black Wire:** Connect to vehicle/boat chassis ground (-).
- **Red Wire:** Connect to 9-32V DC power supply (+). This should be an ignition-switched power source.
- **Blue Wire:** Connect to the engine's RPM signal output. This can be from the ignition coil (negative terminal), alternator 'W' terminal, or a dedicated RPM sensor.
- **Yellow Wire:** Connect to the backlight power source (+). This can be connected to the red wire for constant backlight or to a separate dash light circuit.

6.3 Pulse Ratio Setting

The tachometer may require adjustment for the correct pulse ratio depending on your engine type (number of cylinders). This setting is typically adjusted via a button or dip switches on the back of the gauge. Refer to the specific instructions provided with your gauge for pulse ratio adjustment. Incorrect settings will result in inaccurate RPM readings.

7. Operating Instructions

7.1 Power On

Once properly wired and the vehicle/boat ignition is turned on, the tachometer will power up and display the current engine RPM (if the engine is running) and the accumulated engine hours.

7.2 Changing Backlight Color

The tachometer features 7 selectable backlight colors. Locate the small button on the back of the gauge (refer to Figure 2). Press this button briefly to cycle through the available colors (Blue, Red, Green, Teal, Purple, White, Yellow). The selected color will be saved until changed again.

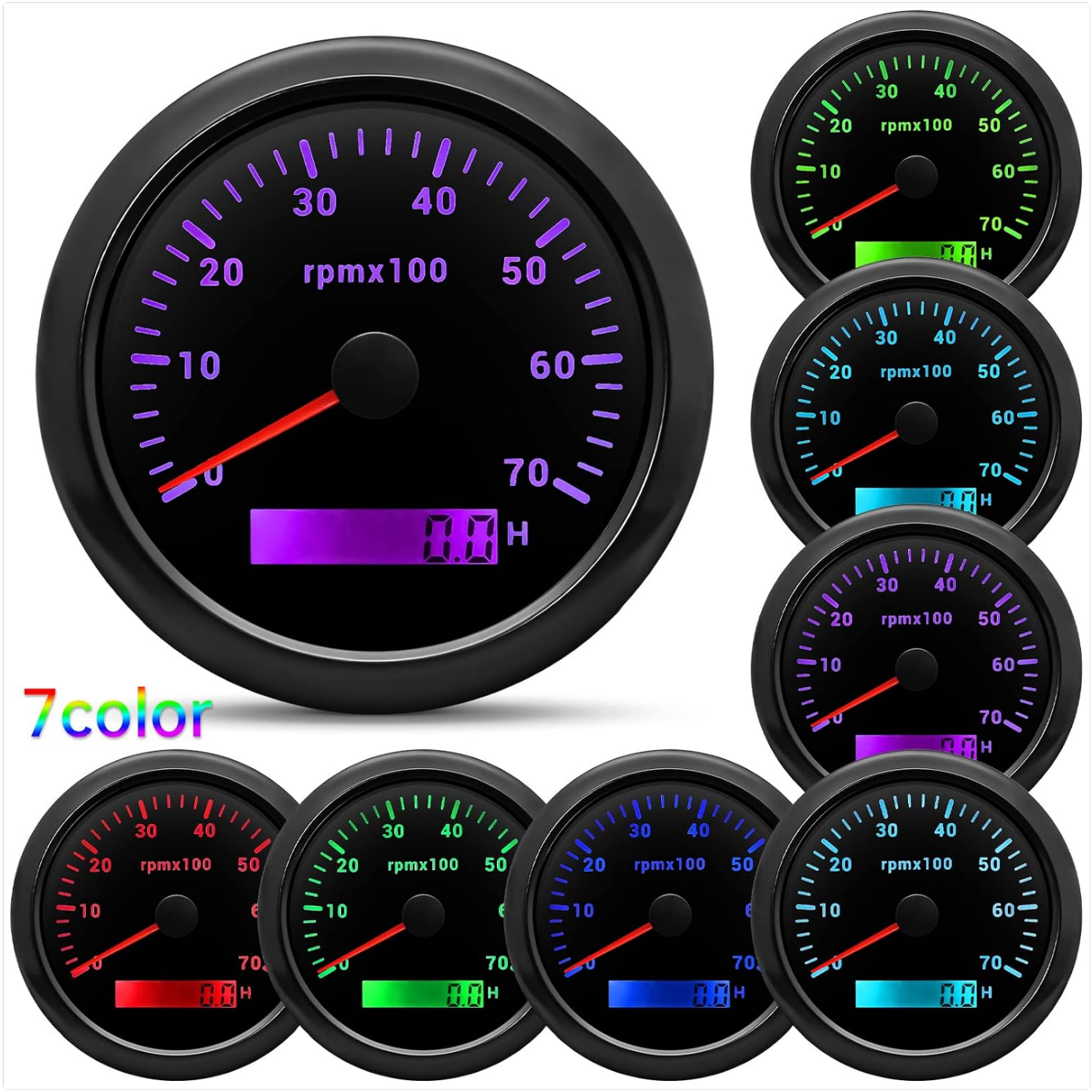


Figure 3: Tachometer with 7 Color Backlight Options

7.3 Hour Meter

The digital display at the bottom of the gauge continuously tracks engine operating hours. This value is stored even when power is off.

8. Maintenance

- **Cleaning:** Clean the gauge face with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the anti-fog glass or bezel.
- **Connections:** Periodically check all wiring connections for tightness and signs of corrosion, especially in marine environments.
- **Waterproofing:** While the gauge is IP67 rated, ensure the rear connections are also protected from direct water exposure to maintain integrity.



Figure 4: IP67 Waterproof Feature

9. Troubleshooting

- **Gauge Not Powering On:**
  - Check the red wire connection for 9-32V DC power.
  - Verify the black wire is securely connected to ground.
  - Check for blown fuses in the power circuit.

- **Inaccurate RPM Reading:**
  - Ensure the blue RPM signal wire is correctly connected to a reliable signal source.
  - Verify the pulse ratio setting on the back of the gauge matches your engine's cylinder count. Incorrect pulse settings are a common cause of inaccurate readings.
  - Check for loose or corroded connections on the signal wire.
- **Backlight Not Changing Color:**
  - Ensure the yellow backlight wire is receiving power.
  - Press the color change button firmly and briefly.
- **Fogging Behind Glass:**
  - While the gauge is designed with anti-fog glass, extreme temperature changes or prolonged exposure to high humidity can sometimes cause temporary condensation. This usually dissipates as conditions normalize.
  - If fogging persists or water ingress is suspected, check the rear seal and mounting for proper installation.

10. Warranty and Support

ARTILAURA products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty information provided at the time of purchase or contact your retailer.

For technical support or inquiries, please contact ARTILAURA customer service through the platform where the product was purchased or visit the official ARTILAURA website for contact information.

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