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**Aramox B08BYTF5TR**

# Aramox Universal Motorcycle Digital LCD Speedometer Odometer Tachometer User Manual

Model: B08BYTF5TR

## 1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Aramox Universal Motorcycle Digital LCD Speedometer Odometer Tachometer. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## 2. Safety Information

- Always ensure the motorcycle's power is off before attempting any installation or wiring.
- Professional installation is recommended for optimal performance and safety.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Do not attempt to modify the device, as this may void the warranty and cause damage.
- Keep the device away from extreme temperatures and direct sunlight for prolonged periods.

## 3. Package Contents

Verify that all items listed below are present in your package:

- 1x Motorcycle Speedometer Unit
- 1x Speed Sensor
- 2x Magnets
- 1x Wiring Harness (integrated with speedometer)



Image 3.1: Contents of the Aramox Motorcycle Speedometer package, including the main speedometer unit, speed sensor, and two magnets.

## 4. Specifications

| Feature | Specification |
|---|---|
| Material | ABS Plastic |
| Working Voltage | DC 12V |
| Speed Display Range | 0~199 km/h |
| Odometer Display Range | 0~99999.9 km |
| Trip Meter | 0~999.9 km |
| Gear Position Indicator | 1 to 6 |
| LCD Backlight Color | 7 colors adjustable (default blue) |

| Feature | Specification |
| --- | --- |
| Speed Sensor Cable Length | Approx. 125 cm (49.2 in) |
| Speed Sensor Size (L x D) | 40 x 12 mm (1.6 x 0.5 in) |
| Unit Dimensions | 140 x 99 mm (5.5 x 3.9 in) |

## 5. Setup and Installation

This section outlines the general steps for installing the speedometer. Due to variations in motorcycle models, some adjustments may be necessary. Professional installation is highly recommended.

### 5.1 Wiring Diagram Overview

The speedometer comes with a pre-attached wiring harness. Refer to the specific wiring instructions provided with your product package for detailed color-coded connections. A general overview of the wiring harness is shown below.

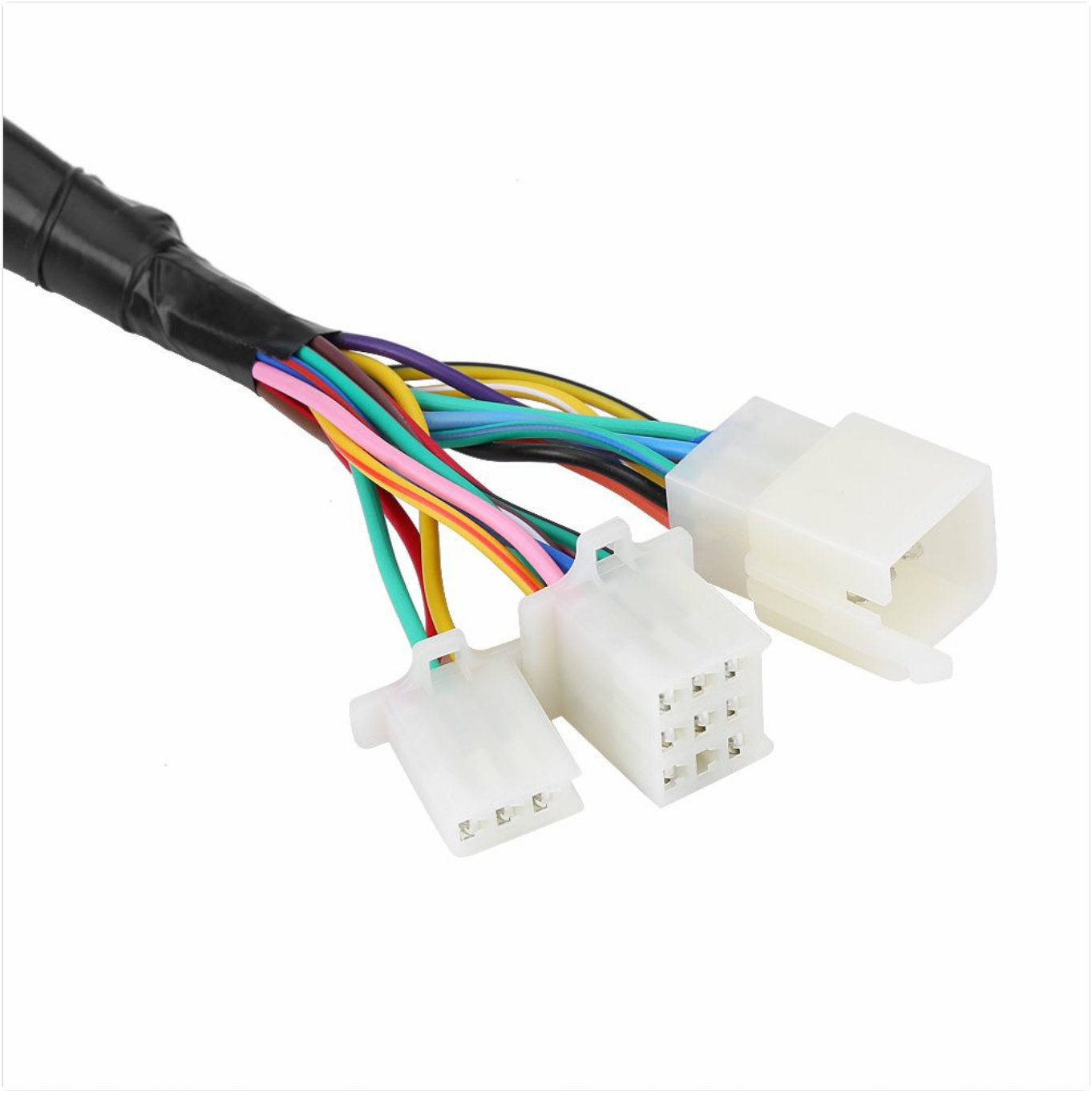


Image 5.1: Detailed view of the multi-colored wiring harness for the speedometer, showing various connectors.

## 5.2 Mounting the Speedometer

1. Identify a suitable mounting location on your motorcycle's handlebars or dashboard. Ensure the display is clearly visible to the rider and does not obstruct controls.
2. Secure the speedometer unit using appropriate brackets and fasteners (not included, typically uses existing motorcycle mounts or universal brackets).
3. Ensure the unit is firmly attached to prevent vibration damage.




Image 5.2: Illustrative image of a speedometer unit mounted on a motorcycle's handlebars, indicating a typical installation position.

## 5.3 Speed Sensor Installation

1. Locate a suitable position on the wheel or brake disc for mounting the speed sensor. The sensor needs to be in close proximity to the magnets.
2. Attach the two magnets to the wheel or brake disc. Ensure they are securely fastened and evenly spaced if using two.
3. Mount the speed sensor so that its tip is aligned with the magnets and the gap between the sensor and magnets is

minimal (typically 1-3mm) but does not make contact.

4. Route the speed sensor cable securely, avoiding moving parts and heat sources, and connect it to the main speedometer unit.

### 5.4 Electrical Connections

Connect the speedometer's wiring harness to your motorcycle's electrical system according to the provided wiring diagram. Common connections include:

- **Positive (+) Power:** Connect to a switched 12V DC power source (e.g., ignition switch).
- **Negative (-) Ground:** Connect to the motorcycle's chassis ground.
- **Ignition Signal:** For RPM readings (tachometer).
- **Turn Signals (Left/Right):** For indicator lights.
- **High Beam:** For high beam indicator.
- **Neutral Gear:** For neutral indicator.
- **Fuel Level Sensor:** If applicable.

After all connections are made, double-check them for security and proper insulation. Turn on the motorcycle's power to test the unit.

## 6. Operating Instructions

The Aramox speedometer features a digital LCD display with multiple functions and adjustable backlight colors.

### 6.1 Display Functions




Image 6.1: The speedometer's front face, highlighting the analog tachometer and the digital LCD screen.

- **Speedometer:** Displays current speed in km/h.
- **Odometer:** Records total distance traveled (0-99999.9 km).
- **Trip Meter:** Records trip distance (0-999.9 km).
- **Tachometer:** Displays engine RPM (revolutions per minute).
- **Gear Indicator:** Shows current gear position (1-6).
- **Backlight:** Adjustable 7-color LCD backlight.

## 6.2 Button Functions

The unit typically has one or two buttons for operation. Refer to the specific button layout on your device.

- **Short Press:** Cycles through display modes (e.g., Odometer, Trip Meter).
- **Long Press (under ODO conditions):** Adjusts LCD backlight color.
- **Reset Trip Meter:** While in Trip Meter mode, a long press typically resets the trip distance.



Image 6.2: Examples of the speedometer's LCD display with various adjustable backlight colors.

## 7. Maintenance

- **Cleaning:** Wipe the display and unit with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Connections:** Periodically check all electrical connections for corrosion or looseness.
- **Sensor:** Ensure the speed sensor and magnets are clean and free from debris.
- **Housing:** The unit features a robust ABS shell and anti-glare LCD screen for durability.




Image 7.1: Detail showing the robust ABS material construction of the speedometer unit.




Image 7.2: Rear view of the speedometer and a close-up of the anti-UV and anti-glare LCD screen feature.

## 8. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| No Power/Display Off | Loose power connection, blown fuse, incorrect wiring. | Check all power and ground connections. Inspect fuses. Verify wiring against diagram. |
| Inaccurate Speed Reading | Incorrect speed sensor installation, sensor-magnet gap too large, faulty sensor. | Ensure sensor is aligned with magnets and gap is 1-3mm. Check sensor cable for damage. |
| Tachometer Not Working | Incorrect ignition signal connection, faulty wiring. | Verify the tachometer signal wire is correctly connected to the ignition system. |

| Problem | Possible Cause | Solution |
|---|---|---|
| Backlight Not Changing | Incorrect button operation, internal fault. | Ensure you are performing a long press on the correct button under ODO conditions. |

## 9. Warranty and Support

Aramox products are designed for quality and performance. For any questions regarding your product, installation, or troubleshooting that is not covered in this manual, please contact Aramox customer service. Refer to your purchase documentation for specific warranty terms and contact information.

**Customer Service:** If you have any questions about our products, please feel free to contact us. Our customer service team is available to assist you.

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