YOOREAL YR-HM058B

YOOREAL YR-HM058B Digital Hour Meter and Tachometer Gauge User Manual

Model: YR-HM058B

1. Product Overview

The YOOREAL YR-HM058B is a versatile digital hour meter and tachometer designed to monitor the performance and maintenance needs of small gasoline engines. It accurately tracks total engine running hours, provides resettable job timers, and offers real-time RPM readings with alerts for overspeed conditions. Its robust, waterproof design ensures reliable operation in various environments.



Figure 1: YOOREAL YR-HM058B Digital Hour Meter and Tachometer Gauge. This image shows the front view of the black digital meter with a green display, indicating 'TOT', 'SVC', and current time/RPM. It has 'MENU' and 'SET' buttons on the left and a wire extending from the right side.

2. Key Features

- **Multifunction Hours Tracking:** Tracks total hours (TOT) up to 99,999 hours with 0.1/1 hour accuracy. Includes resettable partial timers (JOB/JOB2) and programmable initial hours.
- **Maintenance Reminders:** Two programmable maintenance intervals (SVC/SVC1) from 0-1000 hours, with flashing icon and red backlight alerts.
- **Real-time RPM Monitoring:** Measures RPM from 0-25000 RPM with 10 RPM resolution. Displays highest RPM achieved.
- **RPM Alert:** Overspeed alert channel with red backlight and flashing warning icon.
- **Backlight Display:** Green backlight by default, red for alerts. Adjustable modes: always-on, off, and automatic.
- **Wide Compatibility:** Suitable for 2-stroke gasoline engines up to 6 cylinders and 4-stroke engines up to 16 cylinders.
- **Durable Design:** IP67 waterproof rating.
- **Replaceable Battery:** Uses a CR2450 battery for long endurance.

3. Setup and Installation

The YR-HM058B offers two convenient installation methods: double-sided adhesive tape or screw mounting.

3.1. Package Contents

Before installation, ensure all components are present:

- 1 x YOOREAL Digital Hour Meter and Tachometer Gauge
- 1 x 3M Adhesive Velcro
- 1 x Cut-out Sticker
- 1 x User Manual
- 1 x Cable Tie
- 2 x Set Screws
- 1 x CR2450 Battery (pre-installed)



Figure 2: Product Accessories List. This image displays the hour meter along with its included accessories: a user manual, 3M adhesive velcro, cable ties, and mounting screws, all neatly arranged next to the product box.

3.2. Installation Methods

Choose the method that best suits your application surface.

3.2.1. Double-sided Tape Installation

1. Ensure the product surface and the intended mounting location are clean, dry, and free from moisture or grease.
2. Peel off the protective backing from the double-sided adhesive tape.
3. Firmly press the meter onto the desired surface.

3.2.2. Screw Installation

1. Use the provided cut-out sticker as a template to mark the screw holes on the mounting surface.
2. Drill pilot holes if necessary.
3. Secure the meter using the two provided set screws.

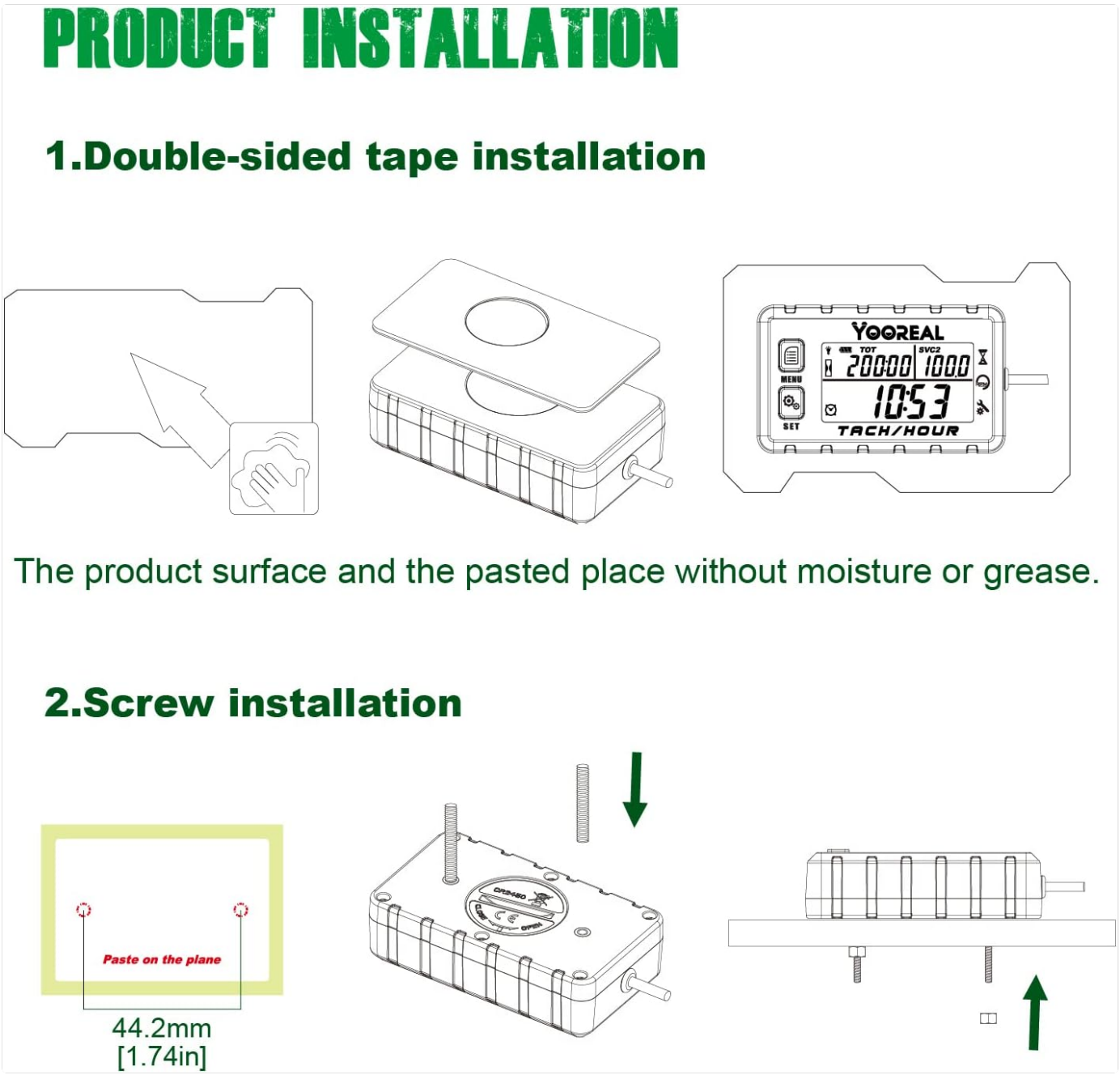


Figure 3: Product Installation Methods. This image illustrates two installation options: the top section shows the use of double-sided adhesive tape, while the bottom section demonstrates screw mounting with a diagram for hole placement.

3.3. Wiring the Tachometer

The tachometer function requires connecting the signal wire to the engine's spark plug wire. Wrap the signal wire around the spark plug wire according to the instructions in the full user manual to pick up ignition pulses.

4. Operating Instructions

The YR-HM058B features a clear LCD display and intuitive buttons for navigation and settings.

4.1. Hours Functions

- **Total Hours (TOT):** Accumulates total engine working hours. This value is non-resettable and displays up to 99,999 hours. It restarts from 0 if it exceeds this value.
- **Initial Hours Setting:** You can program an initial TOT value, useful when replacing an old hour meter.

- **Resettable Job Timers (JOB/JOB2):** Tracks hours for specific tasks or work periods. These timers can be reset as needed.
- **Maintenance Reminders (SVC/SVC1):** Set two countdown timers for maintenance. When the set time is reached, the meter will remind you with a flashing icon and a red backlight. Range: 0-1000 hours.

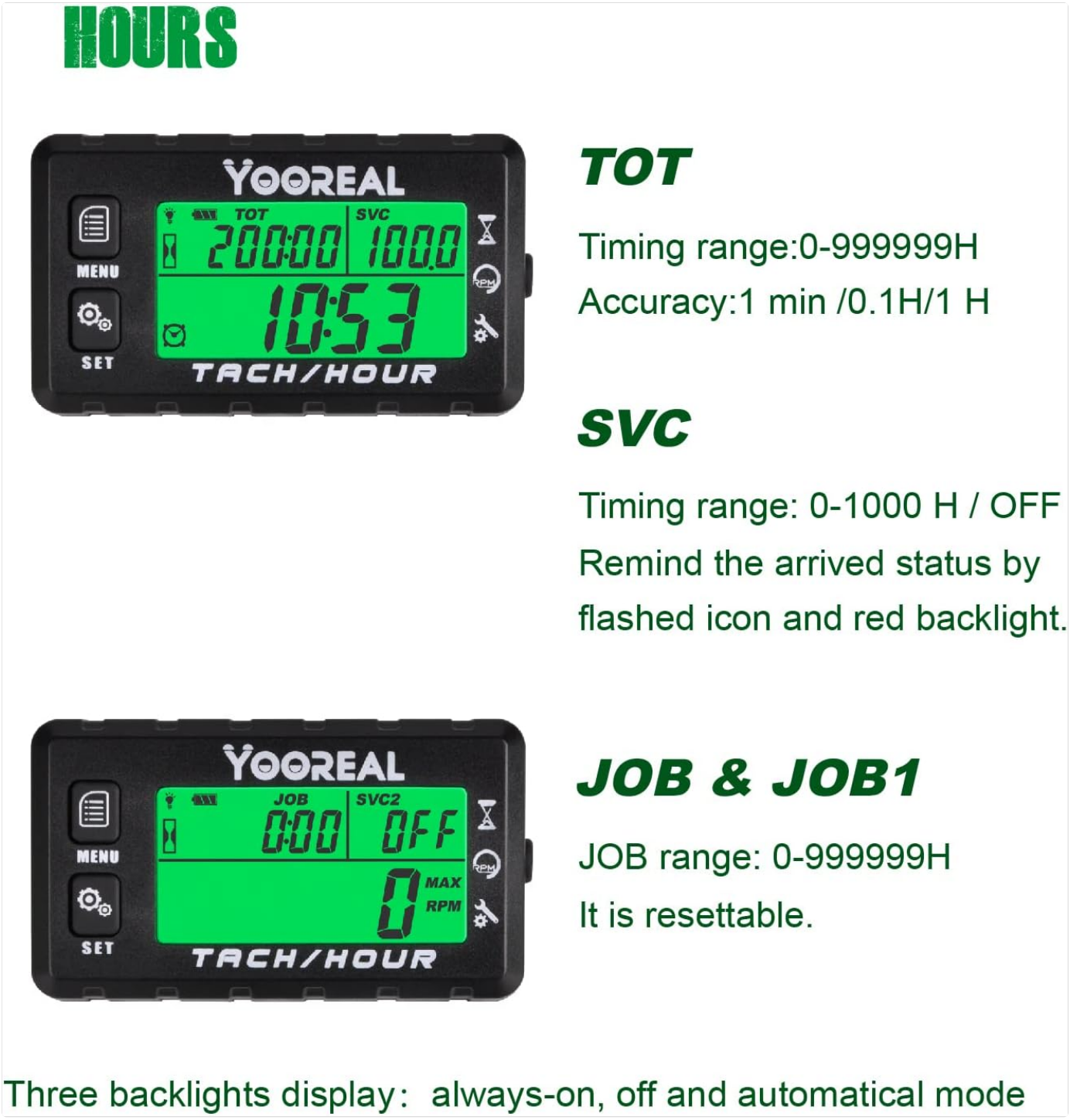


Figure 4: Hours Tracking Features. This image shows three display modes for the hour meter: TOT (Total Hours) with a timing range of 0-999999H, SVC (Service) with a timing range of 0-1000H/OFF, and JOB & JOB1 (Resettable Job Timers) with a range of 0-999999H.

4.2. RPM Functions

- **Real-time RPM:** Displays the engine's revolutions per minute when the engine is running. Measurement range: 0-25000 RPM with 10 RPM resolution.
- **Maximum RPM (MAX RPM):** Shows the highest RPM recorded since the engine started. This value can be reset.
- **RPM Alert:** Set an overspeed alert. If the engine RPM exceeds the set limit, the meter will display a red backlight and a flashing warning icon.

- **Engine Firing Patterns:** Select from 9 firing patterns to ensure accurate RPM measurement for your specific engine type.
- **RPM Measurement Range:** Four selectable RPM ranges (r1: 0-25000RPM; r2: 0-18000RPM; r3: 0-12000RPM; r4: 0-6000RPM) for precise readings.

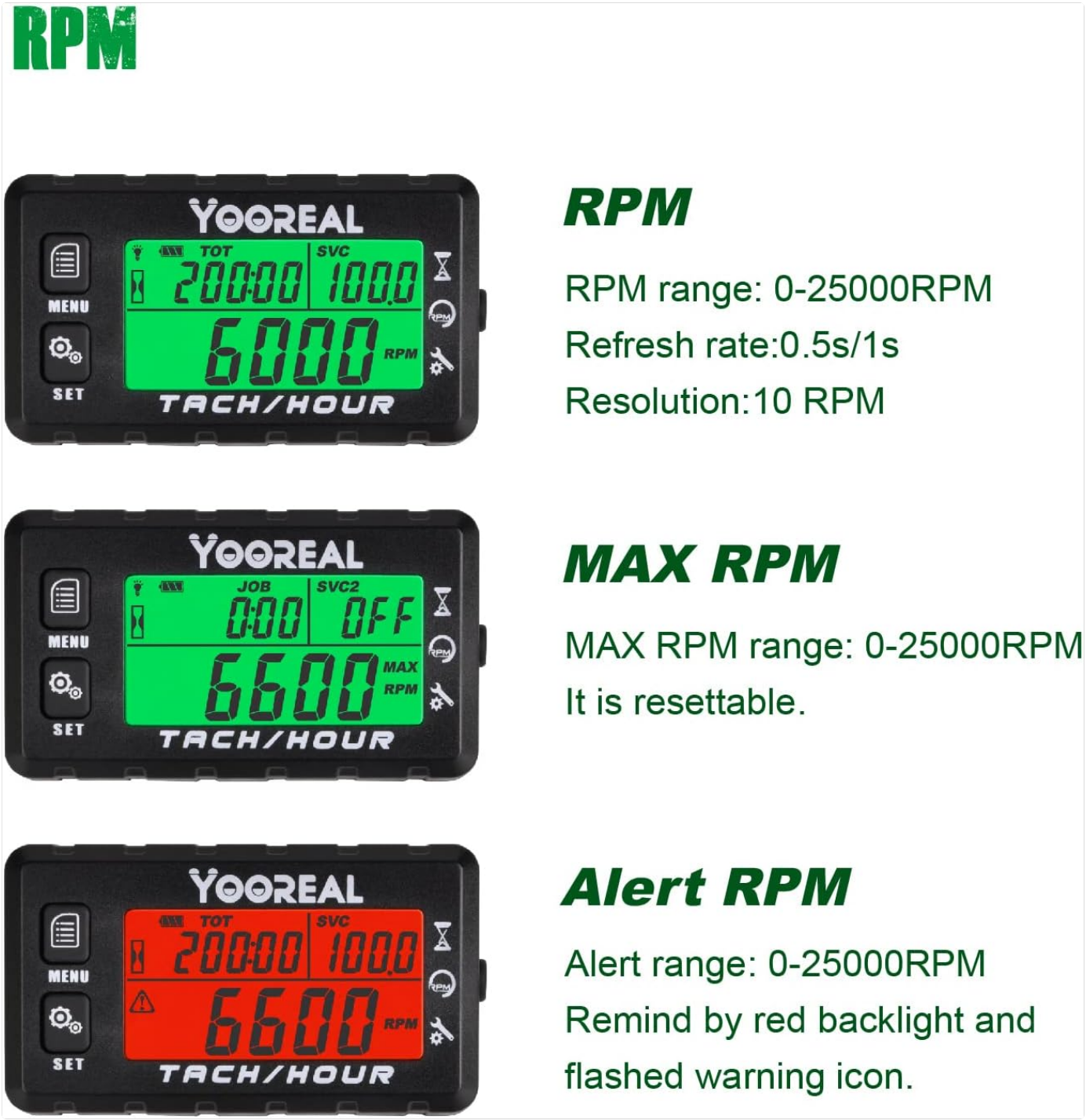


Figure 5: RPM Monitoring Features. This image illustrates the three RPM display modes: real-time RPM (0-25000RPM), MAX RPM (0-25000RPM, resettable), and Alert RPM (0-25000RPM, with red backlight and flashing warning icon).

4.3. Backlight Display Modes

The meter offers three backlight modes:

- **Always-on:** Backlight remains continuously lit.
- **Off:** Backlight is off by default and can be woken up by pressing a button.
- **Automatic:** Backlight activates under certain conditions (e.g., button press, alerts).

4.4. Button Operations

The 'MENU' and 'SET' buttons are used to navigate through display modes, adjust settings, and reset values. Refer to the detailed user manual for specific button press sequences for each function.

5. Maintenance

Regular maintenance of the meter itself is minimal due to its durable design. The primary maintenance task is battery replacement.

5.1. Battery Replacement

The YR-HM058B uses a replaceable CR2450 lithium metal battery. When the battery indicator shows low power, replace it promptly to ensure continuous operation and data retention.

1. Locate the battery compartment on the back of the meter.
2. Carefully open the compartment cover.
3. Remove the old CR2450 battery.
4. Insert a new CR2450 battery with the correct polarity.
5. Close the battery compartment cover securely to maintain the waterproof seal.



Figure 6: Battery Replacement Diagram. This image shows the back of the hour meter with its dimensions and illustrates how to access and replace the CR2450 battery, showing both the battery and the open compartment.

5.2. Cleaning

Wipe the meter with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

6. Troubleshooting

This section addresses common issues you might encounter with your YOOREAL YR-HM058B.

- **Display is blank:** Check if the battery is properly installed and has sufficient charge. Replace the CR2450 battery if necessary.
- **RPM reading is inaccurate or erratic:** Ensure the signal wire is correctly wrapped around the spark plug wire and that the connection is secure. Verify that the correct engine firing pattern is selected in the meter's settings.

- **Hour meter not accumulating:** Confirm that the engine is running and the signal wire is properly connected and picking up ignition pulses.
- **Backlight not working:** Check the backlight mode settings. Ensure it's not set to 'Off' or 'Automatic' when you expect it to be on.

For more complex issues or if the problem persists, please refer to the support section for contact information.

7. Specifications

Feature	Specification
Model Number	YR-HM058B
Product Dimensions (L x W x H)	7.5 x 4.3 x 2.02 cm (2.95 x 1.69 x 0.80 inches)
Item Weight	73 Grams (2.57 ounces)
Screen Size	43 Millimeters (1.69 inches)
Battery Type	1 x CR2450 Lithium Metal (included)
Waterproof Rating	IP67
RPM Measurement Range	0-25000 RPM
Hour Measurement Range	0-99999 Hours
Manufacturer	Ningbo Yooreal Electronics Technology Co.,Ltd
Country of Origin	China
UPC	787997589731

8. Application Scenes

The YOOREAL YR-HM058B is suitable for a wide range of small gasoline engine applications, including but not limited to:

- Motorcycles
- Forklifts
- Snow Blowers
- Boat Motors
- Paramotors
- Chainsaws
- Lawnmowers
- Log Splitters

- Compressors
- Jet Skis
- Dirt Bikes



Figure 7: Application Scenes. This image displays a grid of six different vehicles and equipment where the hour meter can be used, including a motorcycle, forklift, snow blower, boat motor, paramotor, and chainsaw.

9. Warranty and Support

YOOREAL stands behind its products with comprehensive customer support.

9.1. Warranty

The product comes with a **2-year after-sales warranty** from the date of purchase.

9.2. Customer Support

For any technical assistance, questions, or issues, please contact YOOREAL customer support. We offer:

- Hassle-free Replacement/Return policy.
- 7*24H Professional Customer Support.

The YOOREAL Care team is always available to assist you.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question