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YOOREAL YR-HM011J

YOOREAL Digital Tachometer Hour Meter Instruction Manual

Model: YR-HM011J
Brand: YOOREAL

Product Overview

The YOOREAL Digital Tachometer Hour Meter is a versatile device designed to monitor engine operation for various equipment, including lawn mowers, motorcycles, outboard motors, generators, and snow blowers. It provides essential data such as total operating hours, partial job hours, engine RPM, and maintenance reminders. Its waterproof design and replaceable battery ensure durability and long-term usability.

- **Easy Installation:** Features an alligator clip design for quick setup without wrapping induction wires. The plastic shell provides high temperature resistance and secure fixing.
- **Hour Meter (TOT & JOB):** Tracks total engine hours (TOT: 0-999999H, non-resettable but initial time can be set) and partial job hours (JOB).
- **Maintenance Timer (SVC):** Settable countdown timer (1MIN-9999H59MIN) for maintenance reminders, with red backlight and icon alerts.
- **Tachometer:** Displays current and maximum RPM (0-25000RPM, accuracy: 10RPM). Features settable alert RPM (100-25000RPM) with warning icon and red backlight. Supports 9 programmable engine firing patterns.
- **Additional Features:** Includes 3 backlight options (L-Auto, L-ON, L-OFF), low battery reminder, records engine start count, and LCD standby mode after 1 minute of inactivity.

Safety Information

Please read and understand all safety warnings before using the YOOREAL Digital Tachometer Hour Meter. This product contains a button battery, which can be hazardous if swallowed.



Figure 1: Important Safety Warnings. This image displays critical safety information regarding the button battery, including ingestion hazards, risk of internal chemical burns, and the importance of keeping new and used batteries out of reach of children. It also advises seeking immediate medical attention if a battery is suspected to be swallowed or inserted into any part of the body.

- **INGESTION HAZARD: This product contains a button battery.**
- **DEATH or serious injury can occur if ingested.**
- **Button batteries can cause severe Internal Chemical Burns in as little as 2 hours.**
- **KEEP new and used batteries OUT OF REACH of children.**
- **Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.**

What's in the Box

Your YOOREAL Digital Tachometer Hour Meter package includes the following components:



Figure 2: Package Contents and Dimensions. This image illustrates all items included in the product package: the hour meter, user manual, 3M adhesive velcro, two cable ties, a cut-out sticker, M4x35 screws (x2), M4x16 screws (x2), M4 hex nuts (x4), M4 spring washers (x4), M4 flat washers (x4), and a screwdriver. It also provides detailed dimensions of the meter in millimeters and inches.

- Hour Meter (1 unit)
- User Manual (1 unit)
- 3M Adhesive Velcro (1 unit)
- Cable Tie (2 units)
- Cut-out Sticker (1 unit)
- M4x35 Screws (2 units)
- M4x16 Screws (2 units)
- M4 Hex Nuts (4 units)
- M4 Spring Washers (4 units)
- M4 Flat Washers (4 units)

- Screwdriver (1 unit)

Setup and Installation

The YOOREAL Digital Tachometer Hour Meter is designed for easy installation. Follow these steps to set up your device:

1. Initial Setup (Battery Activation)

Before first use, activate the battery by removing the insulating sheet. The meter uses a replaceable CR2032 battery.

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Video 1: HM011J Tach Hour Meter with clip. This video demonstrates the unboxing, initial battery activation by removing the insulating sheet, and the various mounting options for the tachometer hour meter. It also shows the device in operation, displaying RPM readings on an engine.

1. Locate the battery compartment on the back of the meter.
2. Remove the battery cover.
3. Tear off the insulating sheet from the CR2032 battery.
4. Close the battery back cover securely. The meter should now power on.
5. Remove the protective film from the display screen.

2. Mounting Options

The meter offers flexible mounting solutions:

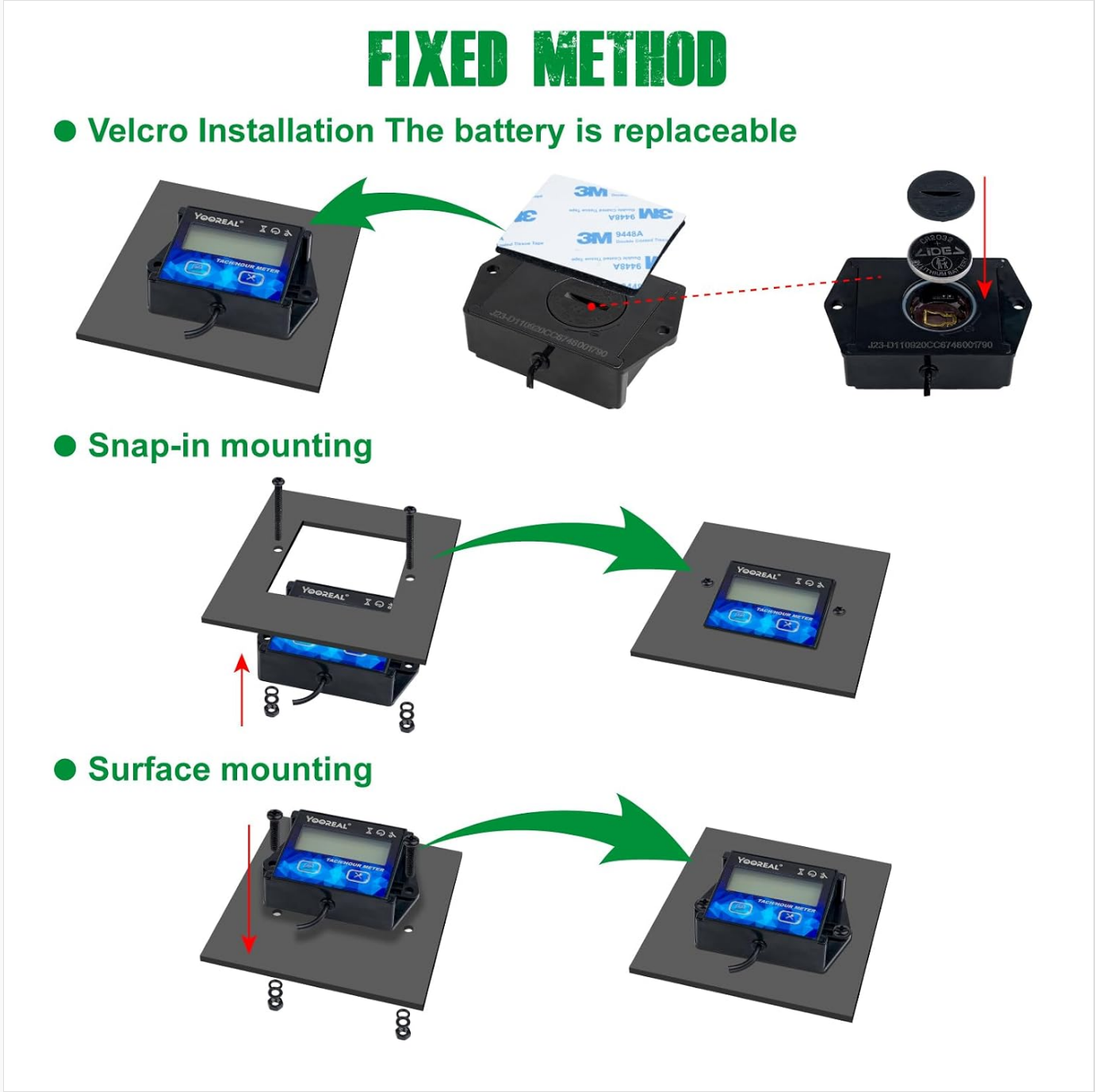


Figure 3: Fixed Method Options. This image illustrates three ways to mount the tachometer hour meter: using velcro for temporary attachment, snap-in mounting into a custom cut-out, and surface mounting with screws. It also highlights the replaceable CR2032 battery.

- **Velcro Installation:** Apply the provided adhesive velcro to the back of the meter and a clean, flat surface on your equipment. This allows for easy removal and reattachment.
- **Snap-in Mounting:** Use the cut-out sticker as a template to create an opening in your equipment's panel. The meter can then snap into this opening for a flush fit.
- **Surface Mounting:** Use the provided screws (M4x35 or M4x16 depending on thickness) and washers to securely fasten the meter to a surface.

3. Connecting to the Engine

The meter uses an alligator clip for easy connection to the spark plug wire, eliminating the need for wrapping induction wires.



Engine firing patterns	Engine type	Spark plug firing and engine rotate laps	RPM Capacity
1P1R	4 stroke 2 cylinder	1 spark per revolution	25000
	2 stroke 1 cylinder		
1P2R	4 stroke 1 cylinder	1 spark 2 revolution	25000
2P1R	4 stroke 4 cylinder	2 spark per revolution	12500
	2 stroke 2 cylinder		
3P1R	4 stroke 6 cylinder	3 spark per revolution	8000
	2 stroke 3 cylinder		
3P2R	4 stroke 3 cylinder	3 spark 2 revolution	16000
4P1R	4 stroke 8 cylinder	4 spark per revolution	6250
5P2R	4 stroke 5 cylinder	5 spark 2 revolution	10000
6P1R	4 stroke 12 cylinder	6 spark per revolution	4000
	2 stroke 6 cylinder		
8P1R	4 stroke 16 cylinder	8 spark per revolution	3125

Figure 4: Easy Installation. This image demonstrates how to easily install the tachometer hour meter by simply clipping the alligator clip onto the spark plug wire of a small engine. A table below the image provides details on engine firing patterns, engine types, spark plug firing and engine rotate laps, and corresponding RPM capacity for various configurations.

1. Locate the spark plug wire on your engine.
2. Securely clip the alligator clip of the meter's induction wire onto the spark plug wire. The plastic shell of the clip provides strong high temperature resistance and good fixing.
3. Ensure the connection is firm to prevent displacement or friction.

The induction wire length is 1.75 meters (68.89 inches).

Operating Instructions

The YOOREAL Digital Tachometer Hour Meter provides multiple functions to monitor your engine. Here's how to use

them:

1. Hour Meter Functions (TOT & JOB)



Figure 5: TOT, RPM, and Clock Display. This image shows the meter displaying total operating hours (TOT) when the engine is off, real-time RPM when the engine is on, and the current time in 24-hour format.

- **TOT (Total Hours):** Tracks the total number of hours the engine has operated (0-999999H). This value cannot be reset. If the engine has been in operation for no more than 1 hour, you can set an initial TOT time.
- **JOB (Partial Hours):** Tracks the hours for a particular work job, such as an oil change interval.



Figure 6: JOB Timer and SVC Maintenance Timer. This image displays the JOB timer, which tracks hours for specific tasks like oil changes, and the SVC maintenance timer, which provides a countdown for maintenance reminders such as changing the air filter.

2. Maintenance Timer (SVC)

- The SVC timer allows you to set a maintenance interval (1MIN-9999H59MIN, or can be turned off).
- When the maintenance time is reached, the meter will display a red backlight and a flashing icon as a reminder.

3. Tachometer Function (RPM)

- The meter displays the current and maximum RPM of the engine (0-25000RPM, accuracy: 10RPM).
- You can set an alert RPM (100-25000RPM, or can be turned off). When the set value is exceeded, a warning icon and red backlight will appear.
- The meter supports 9 programmable engine firing patterns. Refer to the table in Figure 4 for details on selecting the correct pattern for your engine type.

4. Other Functions

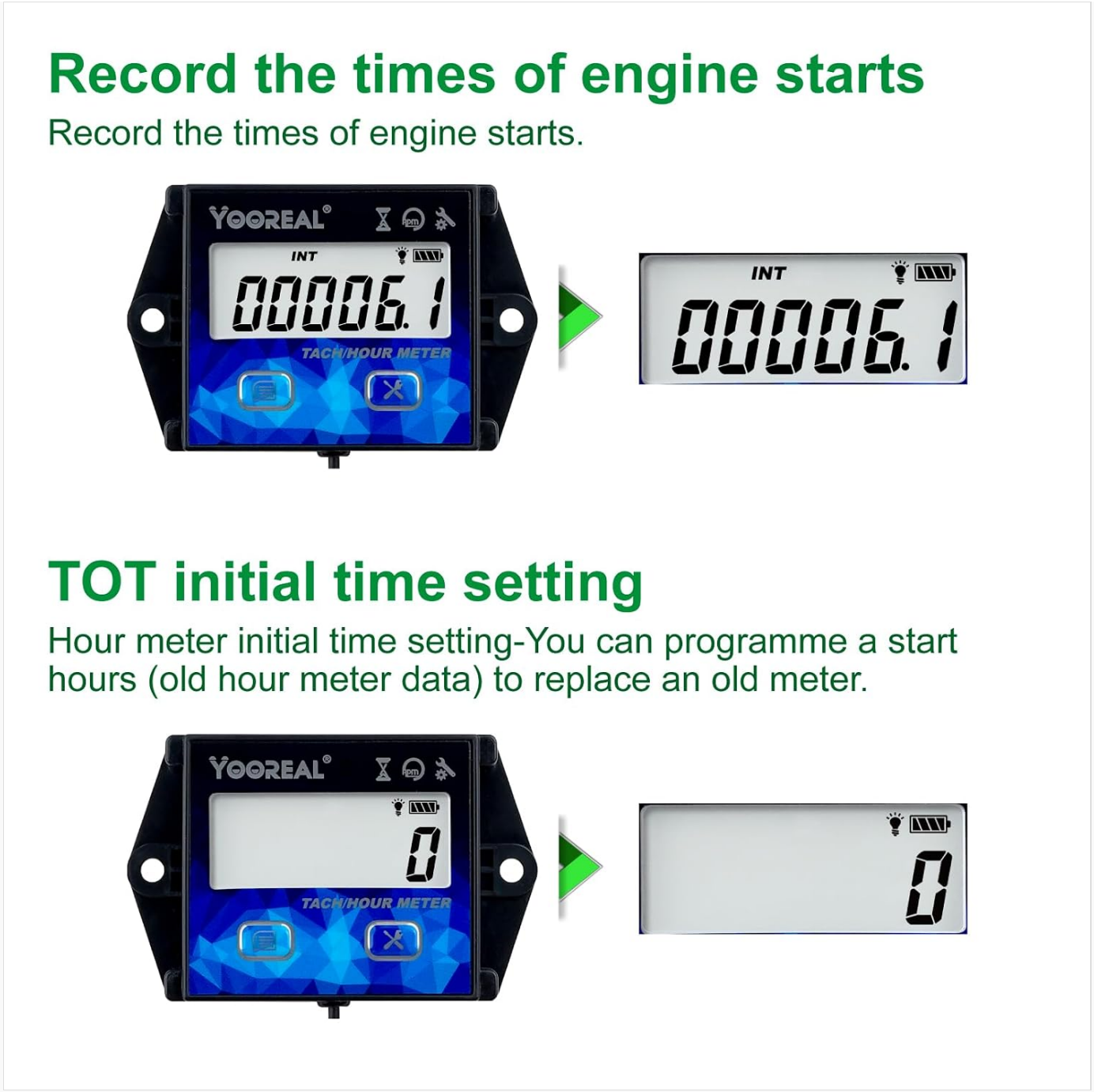


Figure 7: Engine Start Record and TOT Initial Time Setting. This image shows the meter's ability to record the number of engine starts and how to set the initial total operating hours (TOT) for the hour meter, useful when replacing an old meter.

- **Backlight Options:** Choose from "L-Auto" (automatic), "L-ON" (always on), or "L-OFF" (always off). Backlight colors are white and red.
- **Low Battery Reminder:** The meter will indicate when the battery is low.
- **Engine Start Record:** Records the number of times the engine has been started.
- **Standby Mode:** The LCD goes into standby after 1 minute of no operation on the hour meter.

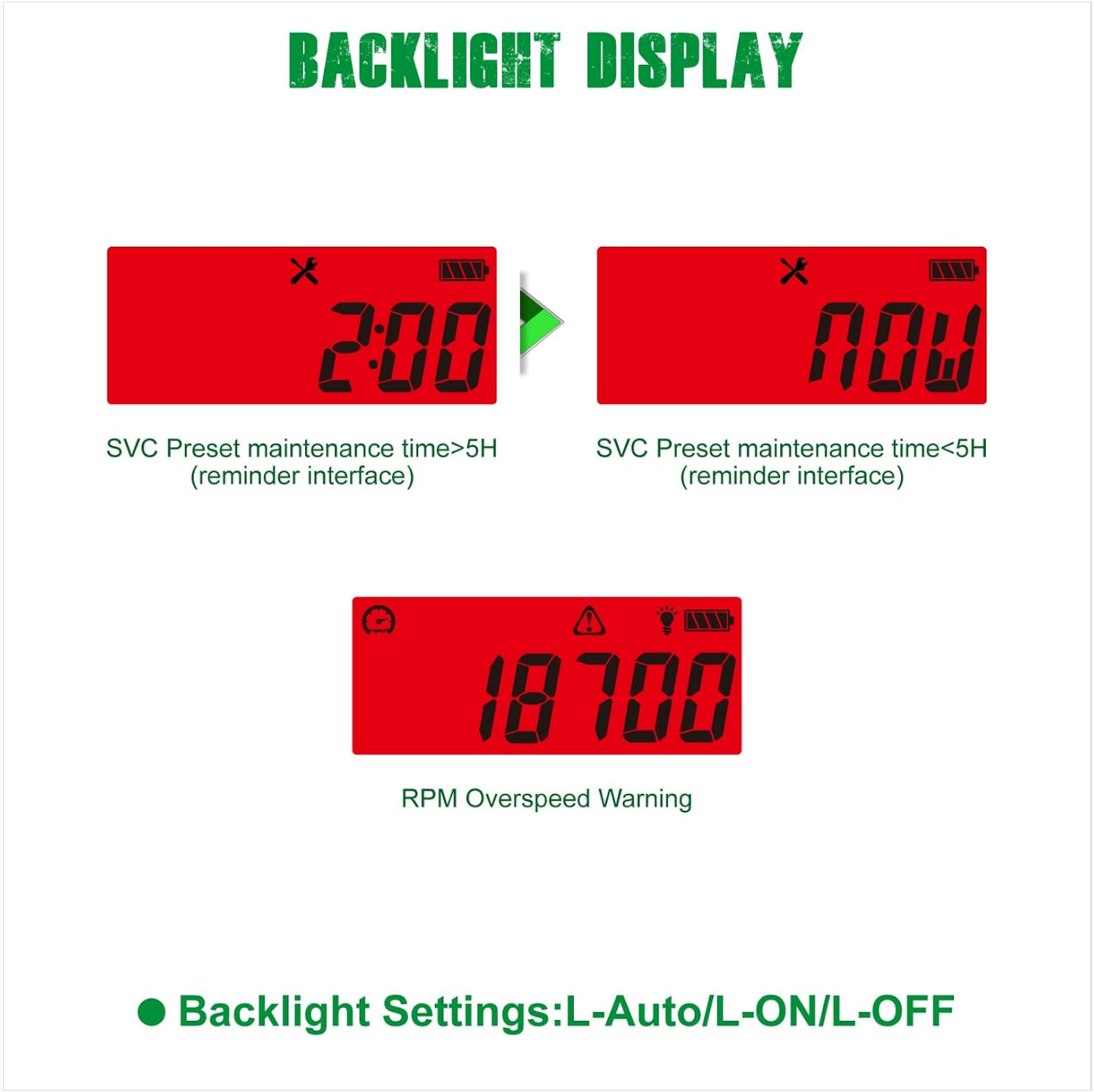


Figure 8: Backlight Display and Warnings. This image illustrates the red backlight reminders for SVC (maintenance) when the preset time is reached (both >5H and <5H examples) and the RPM Overspeed Warning display.

Maintenance

The YOOREAL Digital Tachometer Hour Meter is designed for low maintenance. The primary maintenance aspect is monitoring the SVC timer for scheduled service on your engine. The battery is replaceable (CR2032) when the low battery indicator appears.
For cleaning, wipe the unit with a soft, damp cloth. Avoid harsh chemicals or abrasive materials.

Troubleshooting

This section provides general troubleshooting tips. For specific issues not covered here, please refer to the "Warranty and Support" section for contact information.

Problem	Possible Cause	Solution
Display is blank or dim.	Battery is dead or low. Insulating sheet not removed.	Remove insulating sheet. Replace CR2032 battery.
RPM reading is inaccurate or erratic.	Incorrect engine firing pattern setting. Loose alligator clip connection.	Verify and adjust the engine firing pattern setting (refer to Figure 4). Ensure the alligator clip is securely attached to the spark plug wire.
Maintenance reminder (SVC) not working.	SVC timer is turned off or not set correctly.	Check SVC timer settings and ensure it is enabled and configured with a valid interval.

Specifications

Detailed technical specifications for the YOOREAL Digital Tachometer Hour Meter:

Item Model Number: YR-HM011J

Batteries: 1 Lithium Metal battery required (included, replaceable CR2032)

Manufacturer: Ningbo Yooreal Electronics Co.,Ltd

Material: Acrylonitrile Butadiene Styrene (ABS)

Item Dimensions (L x W x H): 3.46 x 1.97 inches (approx. 88 x 50 mm)

Item Weight: 109 Grams

Screen Size: 88 Millimeters

RPM Range: 0-25000 RPM

RPM Accuracy: 10 RPM

Hour Meter Range (TOT & JOB): 0-999999H

Maintenance Timer Range (SVC): 1MIN-9999H59MIN

Waterproof Rating: IP65



Figure 9: Product Applications and Waterproof Rating. This image showcases the versatility of the YOOREAL Digital Tachometer Hour Meter across different applications such as generators, motorcycles, snow plows, and lawn mowers. It emphasizes the product's IP65 waterproof rating, making it suitable for various outdoor environments.

Warranty and Support

YOOREAL is committed to providing high-quality products and excellent customer service.

- **Warranty:** The product comes with 2 years of technical support and after-sales service.
- **Free Replacement/Return:** Free replacement or return is offered for product problems.
- **Customer Service:** YOOREAL offers online customer service. If you encounter any problems with the product, you can always contact the YOOREAL store for assistance.

For service inquiries, please contact YOOREAL via the Amazon Platform. The YOOREAL Care Team is always available

to assist you.

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