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Jayron RL-HM011F

Jayron Digital Tachometer Hour Meter RL-HM011F

Instruction Manual

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Jayron Digital Tachometer Hour Meter, Model RL-HM011F. This device is designed to accurately track engine RPM and total operating hours, and to provide programmable maintenance reminders for various small gasoline-powered engines.

2. Product Overview

Key Features:

- **Precise Engine RPM Tracking:** Detects signals from the spark plug wire for accurate readings up to 25000 RPM. Supports programmable firing patterns for two and four-stroke motors. Adjustable wire wraps optimize signal strength.
- **Programmable Maintenance Alerts:** Tracks total run hours up to 99999 and includes a resettable job timer. Customizable service countdown with a flashing warning icon for scheduled upkeep.
- **Independent CR2450 Battery Power:** Operates on a replaceable internal battery, eliminating the need for external electrical systems. Features a user shutdown function for power saving during storage. Internal memory retains hour meter data when the LCD is off.
- **IP65 Waterproof Durability:** Constructed to withstand outdoor environments, resistant to rain and mud. Robust design provides vibration tolerance.
- **Universal Equipment Compatibility:** Suitable for gas-powered machinery including chainsaws, snowblowers, riding lawn mowers, tractors, ATVs, and marine outboards. Includes a 1.75-meter cord, mounting tape, and cable ties.

Package Contents:

- Jayron Digital Tachometer Hour Meter (RL-HM011F)
- User Manual
- 3M Double Coated Tissue Tape

- Cable Ties (x2)
- CR2450 Battery (pre-installed or separate)



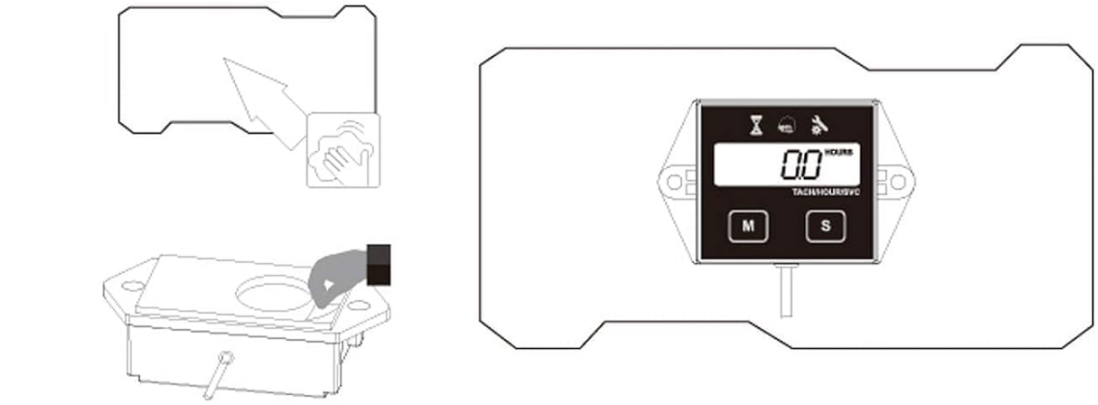
Figure 2.1: Product size and included accessories.

3. Setup and Installation

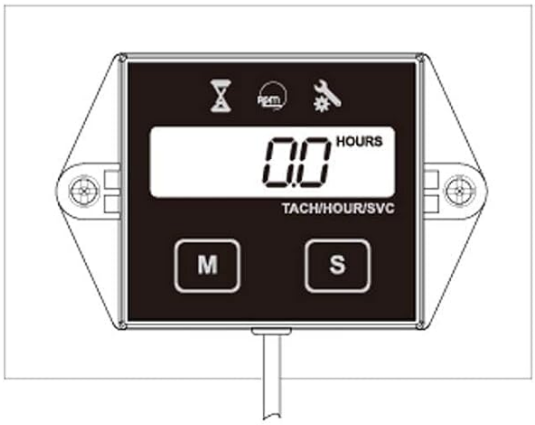
Mounting the Meter:

The tachometer can be installed using either double-sided adhesive tape or screws.

- **Double-sided Tape Installation:** Clean the mounting surface thoroughly. Peel off the backing from the provided 3M double-sided tape and firmly press the meter onto the desired location.
- **Screw Installation:** Use appropriate screws (not included) to secure the meter through the mounting holes on its sides.



Double-sided tape installation



Screw installation

Figure 3.1: Installation options: double-sided tape or screws.

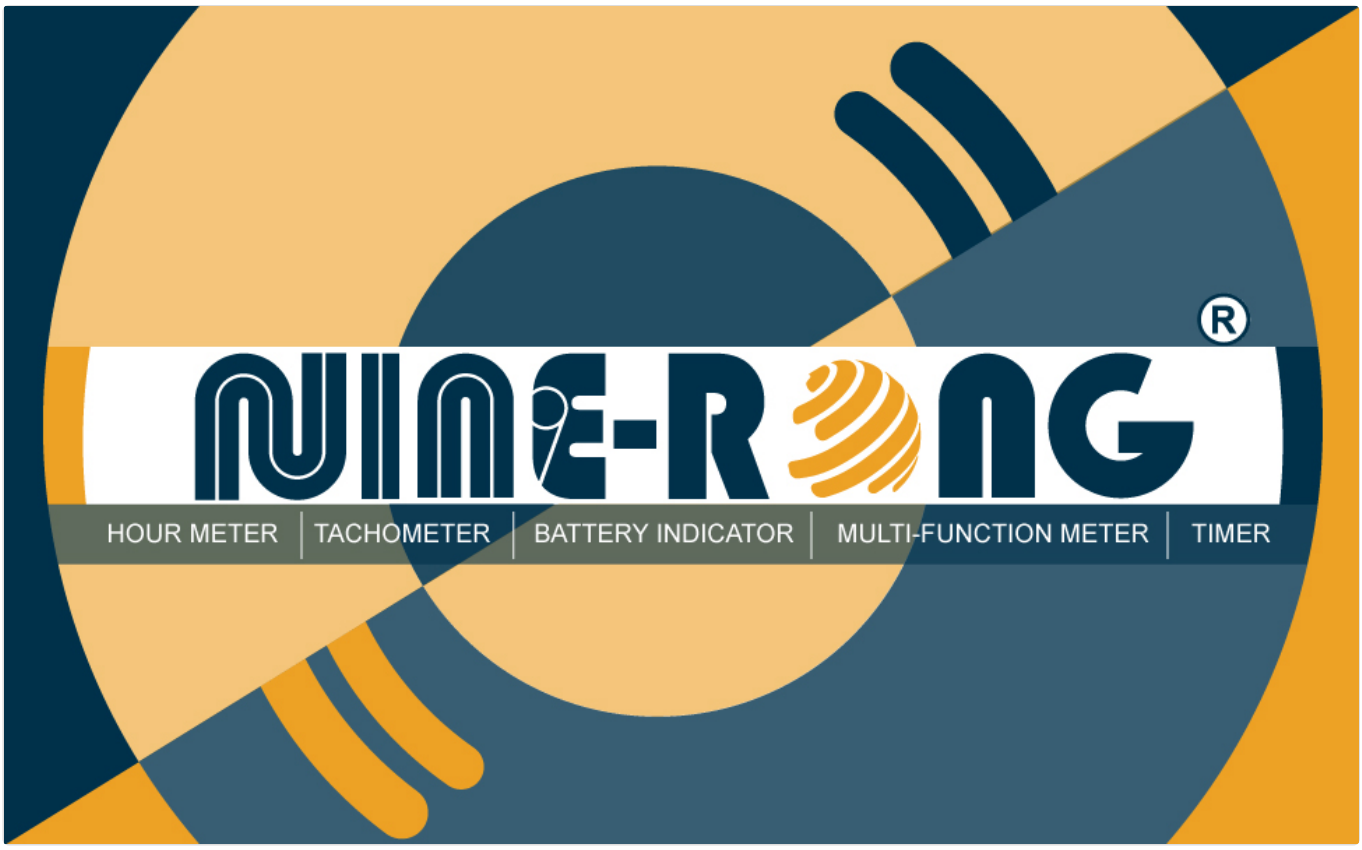


Figure 3.2: Example installation on a lawnmower, highlighting spark plug wire connection.

Connecting the Induction Wire:

Wrap the induction wire around the spark plug wire of your engine. The number of wraps can affect RPM accuracy. Start with 3-5 wraps and adjust as needed to achieve stable readings. Secure the wire with the provided cable ties.
Note: *The induction wire can be extended or shortened. It is recommended that the total length of the induction line be ≤ 5 meters after extension. Excessive length may affect measurement accuracy.*

4. Operating Instructions

The meter features two buttons: 'M' (Mode) and 'S' (Set).

Power On/Off:

- The meter automatically powers on when engine activity is detected or a button is pressed.
- To manually turn off the device for storage, press and hold the 'M' button until the display shows "OFF". Data will be stored automatically.



Figure 4.1: Device display after manual shutdown, indicating data retention.

Viewing Total Hours (TOT):

The meter displays total accumulated engine operating hours. This value is non-resettable.



Resettable total running time.

Figure 4.2: Display showing total accumulated hours.

Viewing and Resetting Job Timer (JOB):

Press the 'M' button to cycle through display modes. The job timer tracks hours for a specific task and can be reset.

- To reset the job timer, navigate to the JOB display, then press and hold the 'S' button until the display resets to 0.0.

Setting Maintenance Reminder (SVC):

The service reminder can be programmed for a specific interval (e.g., 50 hours). When the engine approaches this interval, a warning icon will flash.

- To set the SVC interval: Press 'M' until you reach the SVC display. Press and hold 'S' until the digits flash. Use 'M' to adjust the value and 'S' to confirm each digit.
- To clear a flashing SVC reminder: Press and hold 'S' while in the SVC display until the icon disappears.



Figure 4.3: Display indicating programmable maintenance intervals.

Setting Engine Stroke Mode:

The meter needs to be configured for your engine's firing pattern to ensure accurate RPM readings.

- Press 'M' to cycle to the RPM display.
- Press and hold 'S' until the stroke setting (e.g., 1P1R, 2P1R) flashes.
- Use 'M' to select the correct stroke mode for your engine (refer to your engine's manual for this information).
- Press 'S' to confirm the selection.



Figure 4.4: Display showing selectable stroke setting.

5. Maintenance

Battery Replacement:

The meter uses a replaceable CR2450 battery. When the display dims or becomes unresponsive, replace the battery. Carefully open the battery compartment, replace the old battery with a new CR2450, ensuring correct polarity, and close the compartment securely.

Cleaning:

Wipe the meter with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. The device is IP65 waterproof, meaning it is protected against dust and low-pressure water jets, but it is not designed for submersion.



Figure 5.1: The meter's IP65 waterproof rating allows it to withstand splashes and rain.

6. Troubleshooting

- **Inaccurate RPM readings:**
  - Ensure the correct engine stroke mode is set (refer to Section 4).
  - Adjust the number of turns the induction wire wraps around the spark plug wire. Increase or decrease wraps to match your device and achieve stable readings.
  - Check the induction wire for damage or loose connections.
- **Meter not displaying or unresponsive:**
  - Check the CR2450 battery. Replace if necessary.
  - Ensure the induction wire is properly connected to the spark plug wire.
- **SVC reminder not clearing:**

- Ensure you are pressing and holding the 'S' button while in the SVC display mode until the icon disappears.

7. Specifications

Specification	Value
Brand	Jayron
Model	RL-HM011F
Material	Plastic
Item Weight	78 Grams
RPM Range	Up to 25000 RPM
Hour Meter Range	Up to 99999 Hours
Waterproof Rating	IP65
Battery Type	CR2450 (Replaceable)
Cord Length	1.75 meters

8. Warranty and Support

For warranty information or technical support, please contact the manufacturer or your point of purchase. Keep your purchase receipt for warranty claims.
Manufacturer: NINGBO NINE-RONG ELECTRONIC TECHNOLOGY LIMITED

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