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Runleader RL-HM018R

# Runleader Digital Hours Tachometer RL-HM018R Instruction Manual

Model: RL-HM018R

## 1. PRODUCT OVERVIEW

The Runleader Digital Hours Tachometer RL-HM018R is a versatile instrument designed to monitor engine RPM (Revolutions Per Minute) and total operating hours for various gasoline-powered equipment. It also includes programmable maintenance reminders to ensure timely servicing of your machinery. This device is suitable for 2-stroke and 4-stroke gasoline engines with different cylinder configurations.



Image 1.1: Runleader Digital Hours Tachometer RL-HM018R. This image shows the front view of the black digital tachometer with an RPM reading of '3000' and 'TACH/HOUR' label, along with its inductive wire.

## 2. KEY FEATURES

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- **Applicable Engine Types:** Works with gasoline engine powered equipment, including 2-stroke (1 or 2 cylinders) and 4-stroke (1, 2, or 4 cylinders) engines.
- **Tachometer Function:** Displays real-time RPM values when the engine is running. Features 3 selectable engine firing patterns for 5 kinds of 2/4 stroke gasoline engine usage, with RPM accuracy calibration. RPM measurement range: 0 to 30,000 RPM.
- **Hour Meter Function:** Tracks total engine running hours when the engine is on, displaying the value when the engine is off. Includes 3 groups of maintenance timers (SVC) for different engine components, reminding users by flashing digits when due.
  - Total (TOT) hours range: 0 to 99,999 hours.
  - SVC CLEAN AIR FILTER: Default 5 hours.
  - SVC CHANGE OIL: Default 10 hours.

- SVC VALVE SERVICE: Default 20 hours.

- **Waterproof Design:** Constructed with 100% epoxy resin craft, providing strong water resistance up to IP68 rating.
- **Additional Features:** Viewable and resettable partial hours, one-button operation, built-in CR2430 360mAh battery, and easy screw-on mounting.

## STRONG WATER RESISTANCE



- It made by 100% epoxy resin craft with strong water resistance.

Image 2.1: Strong Water Resistance. The image shows the tachometer submerged in a 'TESTING TANK' of water, highlighting its IP68 waterproof rating.

# INSTALLATION METHODS

## Engine signal connection

### ■ Connect with product



Insert the wire into the holes.

### ■ Signal pickup connection



### ■ Adjustable engine firing patterns for different gasoline engine useage:

- 1P1R for 2 stroke 1 cylinder/4 stroke 2 cylinders engine;
- 1P2R for 4 stroke 1 cylinder engine;
- 2P1R for 2 stroke 2 cylinder/4 stroke 4 cylinders engine.

## Stick-on mounting



Image 2.2: Product Features. This image displays icons representing key features: Total Hours (TOT), Job Hours (JOB), RPM, LCD Shutdown, and IP68 Waterproof rating.

## 3. SETUP AND INSTALLATION

### 3.1 Signal Connection

The tachometer receives RPM signals inductively from the spark plug wire. To connect, wrap the inductive wire around the spark plug wire of your engine. Ensure a secure connection to accurately pick up engine signals.

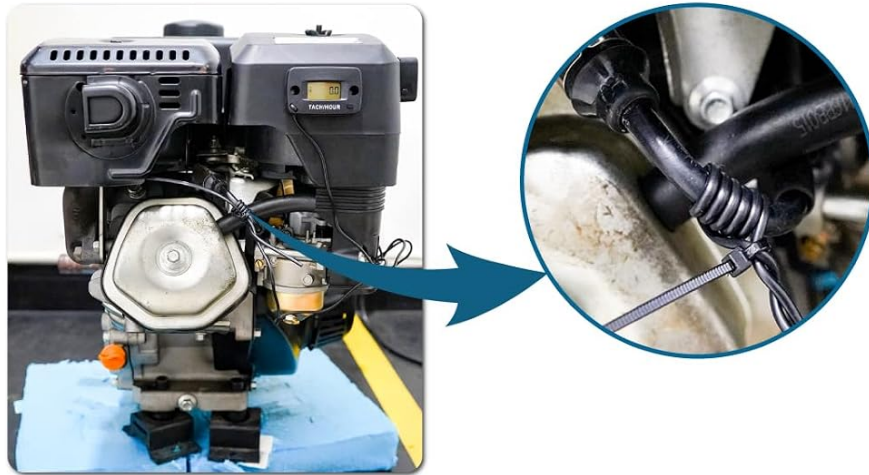
# WORKING SIGNAL PICKUP

## ■ Connect with product



Insert the wire into the holes.

## ■ Signal pickup connection



- Adjustable engine firing patterns for different gasoline engine useage:
  - 1P1R for 2 stroke 1 cylinder/4 stroke 2 cylinders engine;
  - 1P2R for 4 stroke 1 cylinder engine;
  - 2P1R for 2 stroke 2 cylinder/4 stroke 4 cylinders engine.

Image 3.1: Working Signal Pickup. This image illustrates how to connect the inductive wire to the tachometer and then wrap it around the spark plug wire of an engine for signal pickup.

### 3.2 Mounting

The RL-HM018R tachometer is designed for screw-on mounting. Use the provided screws to secure the device to a suitable flat surface on your equipment. Ensure the mounting location allows for clear visibility of the display and does not interfere with engine operation or safety.

# SCREW-ON MOUNTING

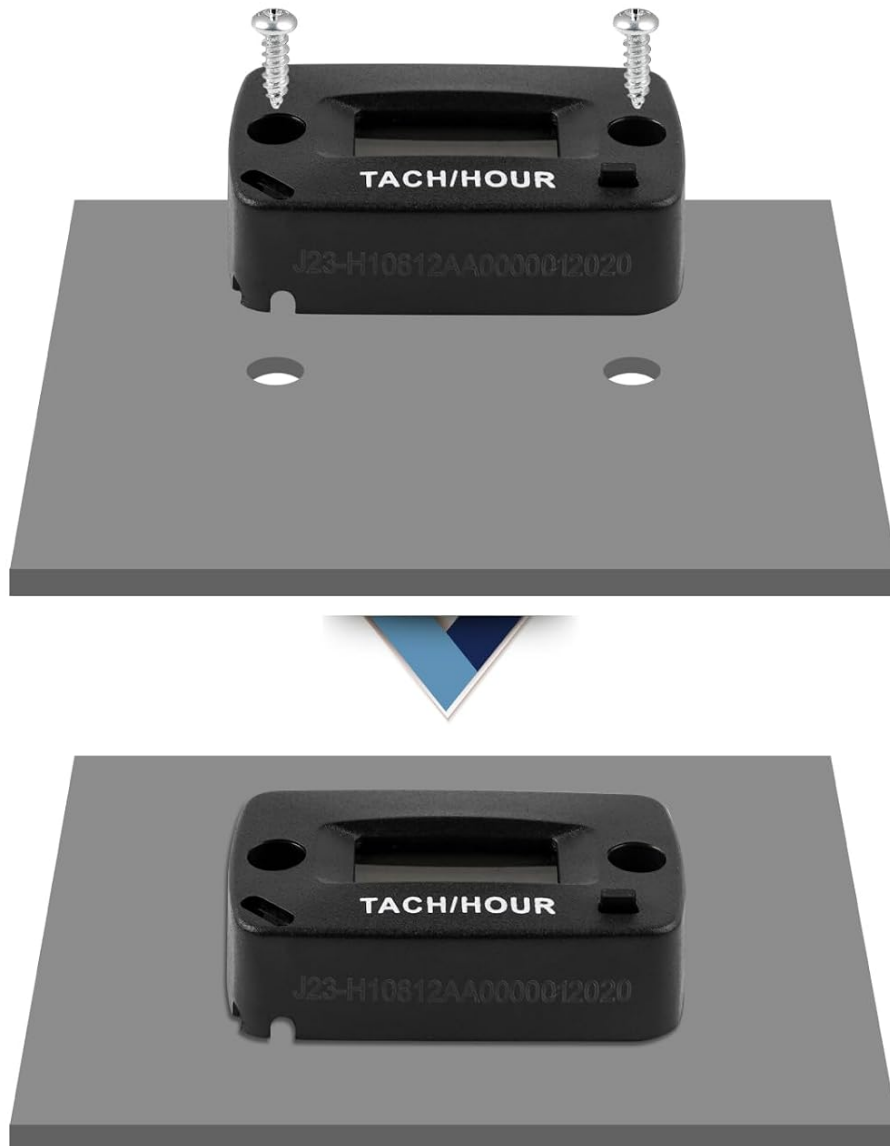


Image 3.2: Screw-on Mounting. This image demonstrates the process of screw-on mounting the tachometer to a surface using two screws.

## 3.3 Engine Firing Pattern Selection

The device supports adjustable engine firing patterns to ensure accurate RPM readings for different engine types. Refer to the specific instructions included with your product packaging for details on how to select the correct firing pattern (e.g., 1P1R for 2-stroke 1 cylinder/4-stroke 2 cylinders, 1P2R for 4-stroke 1 cylinder, 2P1R for 2-stroke 2 cylinders/4-stroke 4 cylinders).

## 4. OPERATION

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### 4.1 Real-time RPM Display

Once installed and the engine is running, the tachometer will automatically display the real-time RPM value. The display updates continuously to show the current engine speed.

# REAL-TIME RPM DISPLAY



- It display the real-time engine RPM value when engine is on.

Image 4.1: Real-time RPM Display. This image shows the tachometer displaying '2000 RPM', indicating its function to show engine speed in real-time.

## 4.2 Working Hours Record

The hour meter function begins tracking total engine running hours as soon as the engine starts. When the engine is off, the device displays the accumulated total hours (TOT). You can also view and reset partial working hours (TMR) for individual tasks or periods.

# WORKING HOURS RECORD



- It begin to track the total hours when engine is on, and display the hours value when engine is off.
- You can view the hours value during a single working period, it can be reset.

Image 4.2: Working Hours Record. This image shows the tachometer displaying '50.0' hours, with an inset showing 'TMR 10.0' hours, illustrating both total and resettable partial hour tracking.

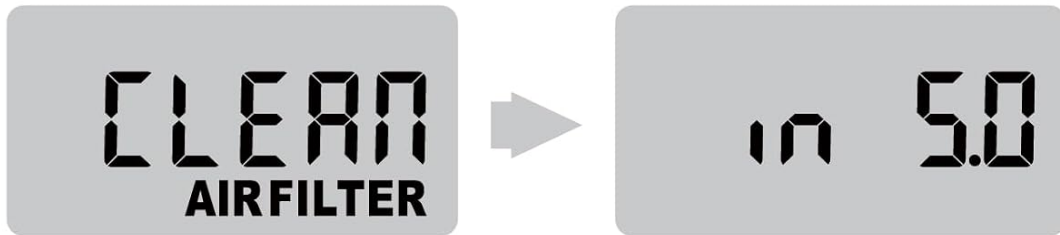
## 4.3 Maintenance Timers (SVC)

The RL-HM018R features three programmable maintenance timers. These timers count down from a set value (default values are 5, 10, and 20 hours) and flash on the display to remind you when maintenance is due. This helps ensure regular servicing of your equipment.

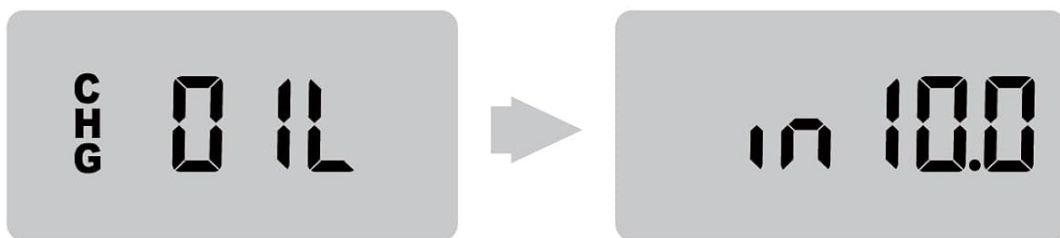
- **SVC CLEAN AIR FILTER:** Default 5 hours.
- **SVC CHANGE OIL:** Default 10 hours.
- **SVC VALVE SERVICE:** Default 20 hours.

# SVC MAINTENANCE TIMERS

■ **Clean air filter:** default 5 hours.



■ **Change oil:** default 10 hours.



■ **Valve service:** default 20 hours.

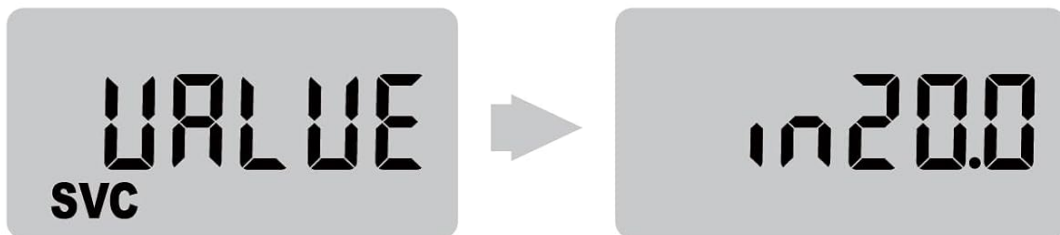


Image 4.3: SVC Maintenance Timers. This image displays the visual reminders for 'CLEAN AIRFILTER' (in 5.0 hours), 'CHG OIL' (in 10.0 hours), and 'SVC VALUE' (in 20.0 hours).

## 4.4 One-Button Operation

The device is operated using a single button. This button is used to cycle through display modes (RPM, total hours, partial hours) and to reset partial hours or acknowledge maintenance reminders. Refer to the detailed instructions in the product packaging for specific button press sequences for various functions.

## 5. MAINTENANCE

The Runleader Digital Hours Tachometer is designed for low maintenance. The primary maintenance aspect involves responding to the SVC maintenance reminders for your engine's components. The device itself is waterproof (IP68) and durable.

- **Battery:** The unit comes with a built-in CR2430 360mAh battery. This battery is designed for long-term use and is generally not user-replaceable.
- **Cleaning:** Wipe the display and casing with a soft, damp cloth as needed. Avoid using harsh chemicals or abrasive materials.

## 6. TROUBLESHOOTING

If you encounter issues with your Runleader Digital Hours Tachometer, consider the following:

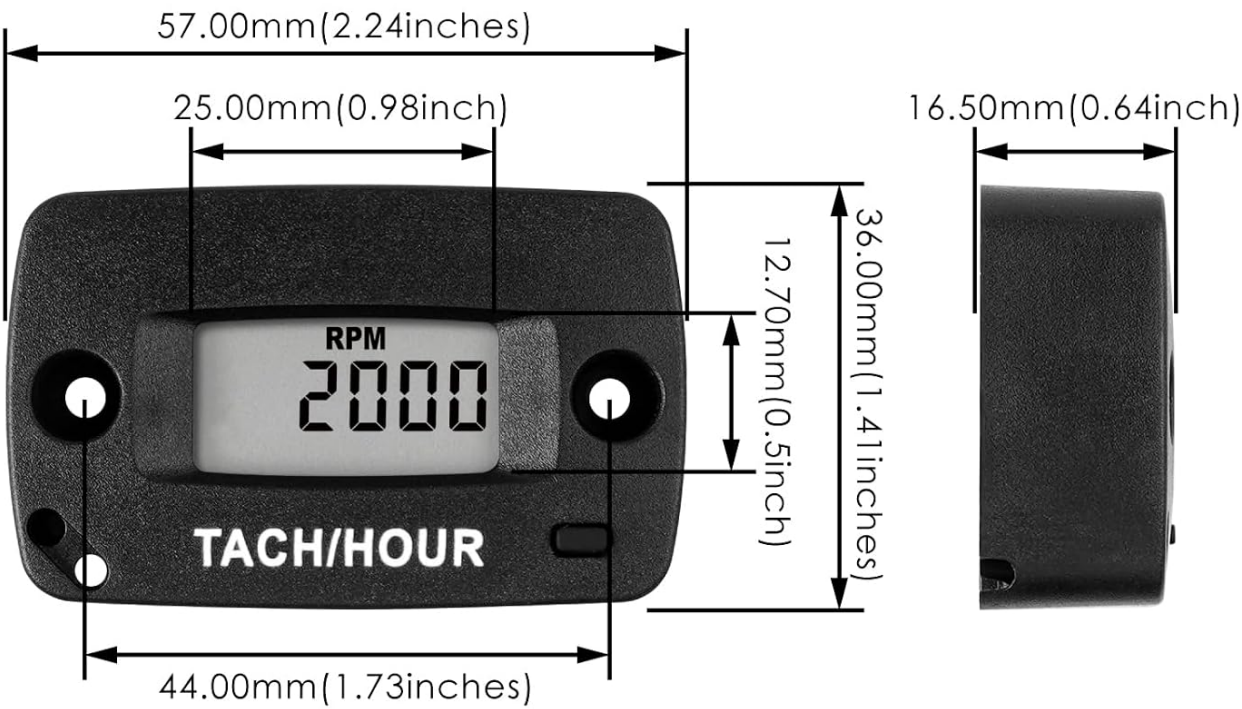
- **No Display/Blank Screen:** Ensure the unit is properly installed and the engine is running (for RPM). If the issue persists, the internal battery may be depleted.
- **Inaccurate RPM Readings:** Verify that the inductive wire is securely wrapped around the spark plug wire and that the correct engine firing pattern is selected for your engine type.
- **Hour Meter Not Advancing:** Confirm the engine is running and the inductive connection is secure.

For persistent issues not resolved by these steps, please contact Runleader customer support.

## 7. SPECIFICATIONS

| Specification           | Detail                    |
|-------------------------|---------------------------|
| Model Number            | RL-HM018R                 |
| Brand                   | Runleader                 |
| RPM Measurement Range   | 0 - 30,000 RPM            |
| Total Hours (TOT) Range | 0 - 99,999 Hours          |
| Waterproof Rating       | IP68                      |
| Battery Type            | CR2430 360mAh (included)  |
| Item Weight             | 67 Grams (2.36 ounces)    |
| Package Dimensions      | 7.01 x 3.86 x 0.71 inches |
| UPC                     | 767400189741              |

# PRODUCT DIMENSION & ACCESSORIES



Product packaging\*1



Inductive cable\*1



Cable tie\*2



Screws\*2

Image 7.1: Product Dimensions & Accessories. This image provides detailed measurements of the tachometer and lists included accessories: product packaging, inductive cable, cable ties, and screws.

# APPLICATION

It is applicable to 2/4 stroke gasoline engine powered equipments, such as:

- Lawn mower
- Generator
- Motorcycle
- ATV
- Outboard motor
- Chainsaw etc



Image 7.2: Application. This image shows various applications for the tachometer, including lawn mowers, generators, motorcycles, ATVs, outboard motors, and chainsaws.

## 8. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your Runleader Digital Hours Tachometer RL-HM018R, please refer to the contact details provided in your product packaging or visit the official Runleader website. Ensure you have your model number (RL-HM018R) and purchase details available when contacting support.

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**

Anonymous

**Email**

you@example.com

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

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