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› Runleader RL-HM032B Hour Meter Tachometer Instruction Manual

Runleader RL-HM032B

Runleader RL-HM032B Hour Meter Tachometer Instruction Manual

Model: RL-HM032B | Brand: Runleader

1. INTRODUCTION

The Runleader RL-HM032B is a versatile hour meter and tachometer designed for various gas-powered devices. It provides essential engine data, including total operating hours, real-time RPM, and maintenance reminders, to help users manage engine health and service schedules effectively.



Figure 1: Runleader RL-HM032B Hour Meter Tachometer

2. KEY FEATURES

- **Multi-Function Display:** Includes Tachometer (RPM), Hour Meter, Service Timers (SVC & SVC2), and a Resettable Job Timer (JOB).
- **Accurate Hour Meter:** Tracks total engine run time with 0.1 hours accuracy. Total hours are non-resettable and remain visible when the engine is off. Allows presetting initial total hours.
- **Maintenance Reminders:** Programmable service intervals (SVC & SVC2) with countdown tracking. A warning icon and red backlight activate when service is due. The JOB timer measures specific work tasks and can be reset.
- **Real-time Tachometer:** Records accurate RPM values, assisting in engine idle adjustment. Features programmable engine firing patterns, RPM Alert (with red backlight and warning icon), and records/recalls maximum RPM.
- **User-Friendly Design:** Easy installation, green backlit display with programmable modes, replaceable battery, user shutdown function, and data retention after shutdown.
- **Durable Construction:** Waterproof with an IP65 rating, CE ROHS certified.

3. SETUP AND INSTALLATION

3.1. Battery Activation

The device comes with a pre-installed lithium metal battery (CR2032). To activate the device, remove the plastic insulation sheet from the battery compartment located at the back of the unit. Ensure the battery cover is securely twisted back into place to maintain waterproofing.



Figure 2: Battery compartment showing replaceable CR2032 battery.

3.2. Signal Wire Connection

The tachometer operates by detecting electrical pulses from the spark plug. Wrap the signal wire around the spark plug wire of your engine 5-8 times. Secure the wrapped wire using the provided cable ties if necessary. The device will automatically activate and begin recording once it detects engine firing.

Video 1: Installation of Runleader Hour Meter Tachometer on a small gas engine (RL-HM032B).

3.3. Mounting the Device

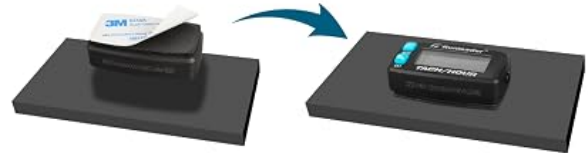
The RL-HM032B can be mounted using either the included 3M adhesive tape for stick-on mounting or screws for a more permanent installation. Choose a flat, clean surface on your equipment where the display is easily visible.

1.Engine signal connection



2.Product Installation

■ Stick-on mounting



■ Screw-on mounting

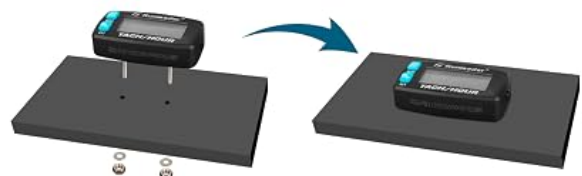


Figure 3: Illustration of stick-on and screw-on mounting options.

4. OPERATING INSTRUCTIONS

The device features two buttons: 'MENU' (M) and 'SET' (S) for navigating and configuring settings.

4.1. Display Modes

- **Total Hours (TOT):** Displays the total accumulated engine run time. This value is non-resettable.
- **Job Timer (JOB):** Measures the duration of a specific task. This timer can be reset for each new job.
- **Service Timers (SVC & SVC2):** Programmable countdown timers for maintenance intervals.
- **Real-time RPM:** Displays the engine's revolutions per minute when the engine is running.
- **Max RPM:** Records and displays the highest RPM achieved.
- **Clock:** Displays the current time when the engine is off.

CLOCK

Display clock when the engine is off.



RPM

Display real-time RPM when the engine is on.



Figure 4: Clock display mode.

SVC & SVC2

Countdown tracking time, Reminding maintenance.
(e.g. Air filter replacement)



Figure 5: SVC and SVC2 maintenance reminder displays.

JOB TIMER

Used to measure the time of a particular work job.
(e.g Oil change).



Figure 6: JOB timer display.

MAX RPM

Display the maximum RPM recorded.



ALERT RPM

Programmable alert RPM
To set the value of warning reminder.



Figure 7: Max RPM and Alert RPM displays.

4.2. Setting Engine Firing Patterns

The device supports various engine firing patterns to ensure accurate RPM readings. Refer to the detailed instruction manual for specific settings based on your engine type (e.g., 2-stroke 1/2/3/6 cylinders, 4-stroke 1/2/3/4/6/8/12 cylinders).

PROGRAMMABLE FIRING PATTERNS

Applied to all types of gasoline engines.



RPM Measurement Range and RPM Refresh Rate Setting, help you get more accurate speed data with settings.



Figure 8: Display showing programmable firing patterns.

4.3. Initial Hours Setting

You can preset the initial total hours on the device to match previous records of your engine. This is useful when replacing an old hour meter.

INITIAL TIME SETTING

The initial time can be set to replace an hour meter.



Figure 9: Display showing initial time setting.

4.4. Backlight Operation

The display features a green backlight for normal operation. When a maintenance reminder (SVC) is due or an RPM alert is triggered, the backlight will turn red and a warning icon will flash.

DISPLAY BACKLIT

Green

+

Red

Programmable display green or not displayed.



Red backlight will be displayed when SVC or ALERT RPM are alerted.



Figure 10: Green backlight for normal operation and red backlight for alerts.

5. MAINTENANCE

5.1. Battery Replacement

The device uses a replaceable CR2032 lithium metal battery. When the battery level is low, replace it by opening the battery compartment at the back of the unit. Data is retained even after battery replacement.

5.2. Service Reminders

Utilize the programmable SVC and SVC2 timers to set reminders for routine engine maintenance, such as oil changes, air filter replacements, or spark plug checks. The JOB timer can be used for tracking specific tasks.

6. TROUBLESHOOTING

6.1. Incorrect RPM Readings or No Signal

If the device displays incorrect RPM readings or fails to detect a signal, ensure the signal wire is wrapped tightly around the spark plug wire 5-8 times. For some engines, placing the wire between the coil and the spark plug hole wall may

improve signal reception.

Video 2: Hardline Products Hour Meter Install - Demonstrates wire placement for signal detection.

6.2. Confusing Operating Procedures

The device's programming can sometimes be complex. Always refer to the detailed operating instructions provided in the package for accurate button presses and sequence for setting specific functions like RPM alerts or service intervals. Pay close attention to diagrams and text instructions.

7. SPECIFICATIONS

Attribute	Detail
Brand	Runleader
Model Number	RL-HM032B
Material	Acrylonitrile Butadiene Styrene (ABS)
Dimensions (L x W x H)	2.7 x 1.37 x 0.68 inches
Item Weight	48 Grams (1.69 ounces)
UPC	791328974059
Battery Type	1 Lithium Metal battery (CR2032, included)
Waterproof Rating	IP65
Certifications	CE, ROHS

8. WARRANTY AND SUPPORT

The Runleader RL-HM032B Hour Meter Tachometer comes with a **2-year warranty**. For technical support or warranty claims, please contact the manufacturer, Ningbo Jiangbei Run Leader Electrics Co.,Ltd, or the seller directly. Refer to the product packaging or included documentation for specific contact information.

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

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