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Runleader HM058B-RD Multi-Function Hour Meter Tachometer Instruction Manual

Model: HM058B-RD

1. PRODUCT OVERVIEW

The Runleader HM058B-RD is a versatile digital hour meter and tachometer designed for various gas-powered equipment. It provides essential engine data, including total run time, real-time RPM, and programmable maintenance reminders, to help users manage engine health and schedule timely service.



Image 1: Runleader HM058B-RD Multi-Function Hour Meter Tachometer. Displays total hours, service hours, current time, and RPM.

Key Features:

- **Multi-Functionality:** Integrates tachometer, hour meter, service timers (SVC & SVC2), and job timers (JOB & JOB2).
- **Hour Meter:** Tracks total engine run time (non-resettable, 0.1 hours accuracy). Allows presetting initial hours.
- **Maintenance Reminders:** Programmable service intervals with countdown tracking. Job timers for specific tasks like oil changes.
- **Tachometer:** Accurately records RPM, programmable for various engine firing patterns, includes RPM alert with red backlight, and records/recalls max RPM.
- **User-Friendly:** Easy installation, multi-color backlit display, replaceable battery, user shutdown, data retention after shutdown.
- **Durability:** Waterproof rating IP67, CE ROHS certified.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- Runleader HM058B-RD Hour Meter Tachometer
- User Manual
- Mounting Accessories (3M Velcro, screws, nuts, washers, cable ties)
- Lithium Metal Battery (CR2450, pre-installed with insulating sheet)



Image 2: Contents of the Runleader HM058B-RD package, showing the meter, user manual, and various installation accessories.

3. SETUP AND INSTALLATION

3.1 Battery Activation

The device comes with a pre-installed CR2450 Lithium Metal battery. To activate the device, remove the insulating sheet from the battery compartment. This ensures the battery capacity is preserved during transport.

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Video 1: Demonstrates how to remove the insulating sheet from the battery compartment to activate the meter.

3.2 Signal Wire Connection

To measure RPM, the signal wire must be correctly connected to the engine's spark plug wire. Wrap the signal wire 5-8 times around the spark plug wire. Secure it with a cable tie if necessary. Ensure a snug fit for accurate readings.

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Video 2: Illustrates the process of wrapping the signal wire around the spark plug cable for RPM detection.

The total length of the original wire is 1.75 meters (68.8 inches). It can be extended to a maximum total length of 5.00 meters (approx. 196.0 inches) if needed.

3.3 Mounting Options

The meter offers two primary mounting methods:

- **Stick-on Mounting:** Use the provided 3M Velcro adhesive for quick and easy attachment to a flat surface.
- **Screw-on Mounting:** Utilize the included screws, nuts, and washers for a more permanent and secure installation.



Image 3: Visual guide for both adhesive and screw-based installation methods.

4. OPERATING INSTRUCTIONS

4.1 Display Modes and Navigation

The device features a multi-color backlit display. Use the "MENU" and "SET" buttons to navigate through different display modes and settings.

- **Clock Mode:** Displays current time when the engine is off.
- **RPM Mode:** Shows real-time engine RPM when the engine is running.
- **Total Hours (TOT):** Displays the total accumulated engine run time. This value is non-resettable.
- **Service Timers (SVC & SVC2):** Countdown timers for maintenance reminders.
- **Job Timers (JOB & JOB2):** Used to measure the duration of specific work tasks.
- **MAX RPM:** Records and displays the highest RPM achieved.



Image 4: The meter displaying the current time in clock mode.



Image 5: The meter displaying real-time RPM when the engine is active.

4.2 Programming Engine Firing Patterns

For accurate RPM readings, the meter must be programmed to match your engine's firing pattern. Refer to the user manual for detailed instructions on selecting the correct pattern (e.g., 2-stroke 1-cylinder, 4-stroke 2-cylinder, etc.).

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.

Image 6: Screen showing the programmable firing pattern setting, crucial for accurate RPM measurement.

4.3 Setting Maintenance Reminders (SVC & JOB Timers)

The device allows you to set two service timers (SVC and SVC2) for regular maintenance and two job timers (JOB and JOB2) for specific tasks. These timers count down, reminding you when service is due.

SVC & SVC2

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



Image 7: The meter displaying SVC and SVC2 countdowns, indicating remaining time until scheduled maintenance.

JOB & JOB2 TIMER

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



Image 8: The meter displaying JOB and JOB2 timers, used for tracking specific work durations.

4.4 RPM Alert and MAX RPM

You can program an RPM alert. When the engine RPM exceeds this set value, the display backlight will flash red, and a warning icon will appear. The device also records and allows you to recall the maximum RPM achieved during operation.



Image 9: The meter showing the recorded maximum RPM and the programmable RPM alert feature.

4.5 Backlight Settings

The backlight can be set to "L-OFF" to shut down, "L-ON" to always lighten, or "L-AUTO" to keep it sleeping. Press any button to wake the backlight up from "L-AUTO" mode.

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Video 3: Demonstrates how to adjust the backlight settings (L-OFF, L-ON, L-AUTO).

4.6 Initial Hours Setting and Resetting

The total hours (TOT) are non-resettable. However, you can set an initial hour value to transfer readings from a previous hour meter. This allows for continuous tracking without losing historical data.

INITIAL TIME SETTING

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



Image 10: Screen illustrating the initial time setting feature, useful when replacing an old hour meter.

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Video 4: Shows how to set initial hours for the total hour meter.

5. MAINTENANCE

5.1 Battery Replacement

The Runleader HM058B-RD uses a replaceable CR2450 Lithium Metal battery. When the battery is low, replace it to ensure continuous operation. Data is retained even after battery replacement.

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Video 5: Guide on how to replace the battery in the meter.

5.2 Waterproofing

The device has an IP67 waterproof rating, meaning it is protected from dust and can withstand immersion in water up to 1 meter for 30 minutes. This makes it suitable for outdoor use in various weather conditions.



RPM



MAX RPM



ALERT RPM



HOURS



SVC



CLOCK



PARTIAL TIME



BACKLIGHT



USER
SHUTDOWN



WORKING
TIMES



IP67
WATERPROOF

Image 11: The meter undergoing a water spray test, confirming its IP67 waterproof capability.

6. TROUBLESHOOTING

- **Inaccurate RPM Readings:**

Ensure the signal wire is wrapped 5-8 times securely around the spark plug wire. Verify that the correct engine firing pattern is programmed in the device settings. Some 4-stroke 1-cylinder engines may require setting to "2-stroke 1-cylinder" or "4-stroke 2-cylinder" for accurate readings.

- **Display Not Turning On:**

Check if the insulating sheet has been removed from the battery compartment. Ensure the battery is correctly installed and has sufficient charge. If the backlight is set to "L-AUTO", press any button to wake the display.

- **Battery Drains Quickly:**

If the backlight is set to "L-ON" (always on), it will consume more power. Consider setting the backlight to "L-AUTO" or "L-OFF" when not actively viewing the display to extend battery life.

7. SPECIFICATIONS

Brand	Runleader
Model Number	HM058B-RD
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Weight	3.88 Ounces
Item Dimensions (L x W x H)	43 millimeters (width, height not specified in JSON)
Battery	1 Lithium Metal battery (CR2450) required (included)
Waterproof Rating	IP67

Certifications	CE, ROHS
Manufacturer	Ningbo Jiangbei Run Leader Electronics Co., Ltd
Country of Origin	China
UPC	791328974004

8. WARRANTY AND SUPPORT

The Runleader HM058B-RD comes with a 2-year warranty. For technical support or warranty claims, please contact Runleader customer service through their official channels or the retailer where the product was purchased. Each item has a unique code that can be verified for transparency.

