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› Runleader RL-HM058-BT Bluetooth Shunt Tach Hour Meter User Manual

Runleader RL-HM058-BT

Runleader RL-HM058-BT Bluetooth Shunt Tach Hour Meter User Manual

Comprehensive instructions for the operation and maintenance of your Runleader RL-HM058-BT device.

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Runleader RL-HM058-BT Bluetooth Shunt Tach Hour Meter. This device is designed to monitor engine hours, RPM, and facilitate maintenance scheduling for various equipment such as lawnmowers, generators, motorcycles, and outboard motors.

Please read this manual thoroughly before using the product to ensure correct operation and to maximize its lifespan.



Image: Two Runleader RL-HM058-BT meters side-by-side, one displaying a green backlight with 4000 RPM, and the other a red backlight with 6000 RPM, illustrating the device's display capabilities.

2. PRODUCT FEATURES

- **Bluetooth Communication:** Connects to the "Moresee" app through Bluetooth with Apple or Android phones to set and view working data. The app can monitor multiple Runleader Bluetooth devices and allows custom naming for each.
- **Hour Meter:** Tracks total and partial engine hours (0 to 99,999H) with 0.1H accuracy. Supports setting initial hours and up to 35 maintenance reminders (SVC range: 0 to 2000H).
- **Tachometer:** Displays real-time RPM (0-25000RPM) and maximum RPM since engine start. Features adjustable engine firing patterns for accuracy and alerts for RPM exceed conditions.

- **Display:** Equipped with green and red backlights. Green is the default; red indicates an RPM exceed alert.
- **Power Options:** Built-in replaceable CR2032 battery for extended service life. Also supports external DC 12V power for continuous use or as a standby energy source.
- **Durability:** Features favorable water resistance (IP67 rated) and a calendar display (clock & Month/Day/Year).
- **Installation:** Easy mounting with stick-on (3M Velcro) or screw-in options. Requires a simple one-wire connection for engine signal reception.

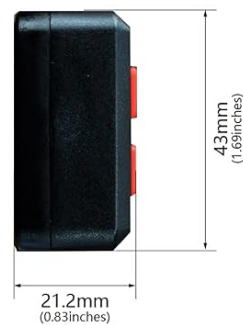
3. SETUP AND INSTALLATION

3.1 Package Contents

Before installation, verify that all components are present in your package:

- Runleader RL-HM058-BT Tach Hour Meter
- User Manual
- Power Cable Assembly
- 3M Adhesive Velcro
- Cable Ties (x2)
- Screws (x2)
- Cut-out Sticker

DIMENSION & ACCESSORIES LIST



Box*1



User manual*3



Power cable assembly*1



3M adhesive velcro



Cable tie*2



screw*2



Cut-out sticker*1



Watproof rate IP67

Image: Displays the dimensions of the Runleader RL-HM058-BT meter from front, side, and top views with measurements in millimeters and inches. Below, the included accessories are shown: the meter, user manual, power cable, 3M adhesive velcro, cable ties, screws, and a cut-out sticker. The image also highlights the IP67 waterproof rating.

3.2 Mounting the Device

The RL-HM058-BT offers flexible mounting options to suit various applications:

- **Stick-on:** Utilize the provided 3M Velcro adhesive for quick and secure attachment to any clean, flat surface.
- **Screw-in:** For a more permanent installation, use the included screws. A cut-out sticker is provided to assist in accurately marking the drill points.

INSTALLATION

- One-wire connection for gas engine signal receipt.



- 3M Velcro stick-on



- Screw-in



Image: Illustrates the three primary installation methods for the Runleader RL-HM058-BT. The first shows a one-wire connection wrapped around an engine's spark plug wire. The second demonstrates the 3M Velcro stick-on method with the adhesive backing. The third depicts the screw-in method, showing the cut-out sticker for precise marking and the meter secured with screws.

3.3 Wiring for Engine Signal and External Power

To receive engine signals, connect the meter's signal wire by wrapping it around the spark plug wire or another appropriate ignition wire of your engine. Consult the detailed connection guide in the included user manual for specific wiring instructions.

For enhanced battery life and continuous operation, the meter can be connected to an external DC 12V power source. The internal replaceable CR2032 battery will then serve as a backup or primary power source when external power is unavailable.

EXTERNAL POWER CONNECTION



- Built-in replaceable CR2450 battery, the DC 12V external power are workable to extend the battery working lifetime.

Image: A diagram illustrating how to connect the Runleader RL-HM058-BT to an external DC 12V power source, such as a battery. An inset image shows the location of the replaceable CR2032 battery within the meter, indicating that external power can extend the battery's working lifetime.

4. OPERATION

4.1 Bluetooth Connectivity and "Moresee" App

The RL-HM058-BT integrates with your smartphone via Bluetooth using the dedicated "Moresee" application, available for both Apple and Android devices.

1. Download and install the "Moresee" app from your device's respective app store.
2. Ensure Bluetooth is enabled on your smartphone.

3. Open the "Moresee" app and follow the on-screen prompts to pair with your RL-HM058-BT device.
4. Once connected, the app provides access to real-time data, historical records, and customizable settings.
5. For users with multiple Runleader devices, the app allows for individual naming and monitoring of each connected unit.

MULTI-FUNCTION HOURS TACHOMETER



- TOT: Range 0-99999 H, 0.1/1H accuracy
- SVC: 35 maintenance types
- RPM: Display current/MAX RPM, Alert the RPM exceed.



Image: A series of screenshots from the "Moresee" mobile application, demonstrating its multi-functionality. It shows displays for total hours (TOT HOUR), service hours (SVC), and RPM. The interface includes options for viewing historical data, setting maximum RPM alerts, and managing maintenance types, highlighting the app's comprehensive monitoring capabilities.

4.2 Hour Meter Functionality

The hour meter accurately tracks the operational duration of your engine, displaying both total accumulated hours and service-specific hours.

- **Total Hours (TOT):** Records the cumulative engine operating time, with a range of 0 to 99,999 hours and an accuracy of 0.1 hours.
- **Service Hours (SVC):** Enables the configuration of up to 35 distinct maintenance reminders. The SVC range is from

0 to 2000 hours, and these reminders are fully customizable via the "Moresee" app.

- **Initial Hours Setting:** Provides the option to set an initial hour value, useful when installing the meter on an engine that has already accumulated operating time.

4.3 Tachometer Functionality

The tachometer component provides precise engine RPM monitoring.

- **Real-time RPM:** Displays the current engine revolutions per minute, with a measurement range of 0 to 25,000 RPM.
- **Maximum RPM:** Automatically records and shows the highest RPM reached during the current engine operation cycle.
- **RPM Accuracy Adjustment:** The "Moresee" app allows users to select various engine firing patterns to optimize RPM measurement accuracy for different engine types.
- **RPM Exceed Alert:** Configurable through the app, this feature triggers a visual alert (red backlight) if the engine RPM surpasses a user-defined limit, helping to prevent over-revving.

4.4 Backlight Display

The meter incorporates a dual-color backlight system for clear visibility and alert indication:

- **Green Backlight:** Serves as the default display illumination, ensuring readability under normal operating conditions.
- **Red Backlight:** Activates automatically to signal an RPM exceed condition, providing an immediate visual warning to the operator.

2 BACKLIGHTS DISPLAY

Green

+

Red



Default green backlight



Alert red backlight for RPM exceed.



Image: Two distinct views of the Runleader RL-HM058-BT display. The upper image shows the meter with its default green backlight, indicating an RPM of 4000. The lower image displays the meter with an alert-triggering red backlight, showing an RPM of 6000 along with a warning triangle icon, signifying that the RPM limit has been exceeded.

5. MAINTENANCE

5.1 Customizing Maintenance Reminders

The "Moresee" app is central to managing your equipment's maintenance schedule, allowing for personalized reminders to ensure optimal performance and longevity.

1. Launch the "Moresee" app and establish a Bluetooth connection with your RL-HM058-BT device.
2. Navigate to the Service (SVC) section within the application.

3. Select the "Add SVC" option to configure a new maintenance reminder.
4. Define the maintenance type (e.g., oil change, air filter cleaning), set the desired time interval or frequency, and add any relevant notes or remarks.
5. The app supports a variety of predefined maintenance types, such as S01 for the first oil change, S03 for cleaning the engine air filter, S04 for replacing the engine air filter, and S05 for replacing the engine oil filter.

CUSTOMIZED MAINTENANCE TIMER



Multiple types of maintenance timers can be selected and customized via "Moresee" APP.

Image: A screenshot of the "Moresee" app's "Add SVC" interface, demonstrating how to set up customized maintenance timers. Users can select the maintenance type, specify the time and frequency, and add remarks. Examples of maintenance tasks like oil changes and filter replacements are visible. The physical meter is also shown in the background, displaying time.

5.2 Battery Replacement

The RL-HM058-BT is powered by a replaceable CR2032 lithium metal battery. When the battery indicator on the display or within the "Moresee" app signals low power, it is recommended to replace the battery promptly to ensure uninterrupted operation. Access the battery compartment on the device's back panel.

If the device is connected to an external DC 12V power source, the internal battery functions as a backup, significantly extending the overall service life of the meter.

6. TROUBLESHOOTING

This section provides solutions to common issues that may arise during the use of your Runleader RL-HM058-BT.

Problem	Possible Cause	Solution
Meter display is blank or device does not power on.	Internal CR2032 battery is low or depleted; External 12V power supply is disconnected or faulty (if applicable); Device malfunction.	Replace the CR2032 battery. Verify the external 12V power connection. If the problem persists after these steps, contact customer support.
RPM readings are inaccurate or inconsistent.	Incorrect engine firing pattern selected in the "Moresee" app; Signal wire is loosely connected or improperly wrapped; Electrical interference.	Access the "Moresee" app to adjust the engine firing pattern to match your engine type. Ensure the signal wire is securely wrapped around the ignition wire. Try repositioning the signal wire to minimize potential interference.
Difficulty connecting via Bluetooth to the "Moresee" app.	Bluetooth is disabled on the smartphone; The "Moresee" app is not running or is outdated; Device is out of Bluetooth range; Bluetooth interference.	Confirm Bluetooth is active on your smartphone. Ensure the "Moresee" app is open and updated. Move your smartphone closer to the RL-HM058-BT. Restart both the app and the meter, then attempt to pair again.
Maintenance reminders are not appearing or triggering.	Maintenance reminders are not set up or are incorrectly configured in the "Moresee" app; The hour meter is not accurately tracking engine operating hours.	Review and verify the maintenance reminder settings within the "Moresee" app. Confirm that the hour meter is correctly registering engine operation.

7. SPECIFICATIONS

Model Number	RL-HM058-BT
Product Dimensions (L x W x H)	2.95 x 1.69 x 0.79 inches (75 x 43 x 20 mm)
Item Weight	13.4 Ounces (approx. 0.84 lbs)
Material	Polycarbonate (PC)
Hour Meter Range	0 - 99,999 Hours (0.1H accuracy)
Service Hour (SVC) Range	0 - 2000 Hours (35 groups)
Tachometer Range	0 - 25,000 RPM

Power Source	Replaceable CR2032 Lithium Metal Battery (included); External DC 12V (optional)
Waterproof Rating	IP67
Connectivity	Bluetooth (via "Moresee" App)
Manufacturer	Ningbo Jiangbei Run Leader Electronics Co., Ltd
UPC	760752455014

8. WARRANTY AND SUPPORT

Runleader products are engineered for reliability and performance. For detailed warranty information specific to your purchase, please consult the documentation provided with your product or visit the official Runleader website. Should you require technical assistance, troubleshooting guidance, or have any questions regarding your RL-HM058-BT, please contact Runleader customer service through their official support channels. When seeking support, it is helpful to have your product model number (RL-HM058-BT) and purchase details readily available. Additional resources and frequently asked questions can also be found on the [Runleader Brand Store on Amazon](#).

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