

Runleader RL-HM032BT 2PCS

Runleader RL-HM032BT Bluetooth Tach/Hour Meter User Manual

Model: RL-HM032BT 2PCS

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Runleader RL-HM032BT Bluetooth Tach/Hour Meter. This device is designed to monitor engine RPM and total operating hours, offering maintenance reminders and Bluetooth connectivity for remote data management via the 'Moresee' app. It is suitable for various gasoline engine applications, including lawn mowers, generators, boats, and snowmobiles.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation to prevent damage to the device or injury. Keep this manual for future reference.

- Ensure the engine is off and cooled down before attempting installation.
- Disconnect the battery if working with electrical connections to prevent short circuits.
- Follow all wiring diagrams precisely to avoid electrical damage.
- Do not expose the device to extreme temperatures beyond its specified operating range.
- The device is IP67 water-resistant, but avoid prolonged submersion.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Runleader RL-HM032BT Tach/Hour Meter (2 PCS)
- Mounting accessories (stick-on pads, screws)
- Signal wire
- User Manual

4. PRODUCT OVERVIEW

The Runleader RL-HM032BT features an LCD display, control buttons, and wiring for engine signal and optional external power. It tracks total hours (TOT), real-time RPM, and provides maintenance reminders.



The image displays two Runleader LCD Bluetooth Tach/Hour Meters. The top meter shows 'TOT 10.7' in green, indicating total operating hours. The bottom meter shows '4500' in red, likely indicating current RPM, with a warning icon. Both meters feature 'MENU' and 'SET' buttons, a Runleader logo, and Bluetooth connectivity icons.

4.1. Display and Buttons

- **LCD Display:** Shows TOT (Total Hours), RPM, maintenance reminders, battery status, and Bluetooth connection status. Features programmable backlight modes (always on/sleeping/OFF).
- **MENU Button:** Used to navigate through different display modes and settings.
- **SET Button:** Used to confirm selections and adjust values within settings.

5. SETUP AND INSTALLATION

5.1. Mounting the Meter

The meter can be mounted using either the provided stick-on pads or screws.

- Choose a flat, clean, and accessible surface on your equipment.
- For stick-on mounting: Clean the surface thoroughly, peel the backing from the adhesive pad, and firmly press the meter into place.
- For screw mounting: Mark the screw holes, drill pilot holes if necessary, and secure the meter with the provided screws.

5.2. Wiring Connection

The meter requires a single wire connection for engine signal receipt and can optionally be connected to a 12V external power source.

1. **Signal Wire (Yellow):** Wrap the yellow signal wire around the spark plug wire of your engine. Typically, 5 to 8 wraps are sufficient to pick up the ignition signal. Secure the wrapped wire with a zip tie or electrical tape to prevent it from unwrapping.
2. **Optional External Power (Red/Black):** The meter includes a built-in CR2032 battery. For continuous backlight or if the internal battery is low, you can connect the red wire to a 12V DC positive terminal and the black wire to a ground terminal on your equipment. This connection also supports the meter as a standby energy source for the internal battery.

5.3. Bluetooth Pairing with 'Moresee' App

The device can be paired with Apple or Android phones via the 'Moresee' app for remote operation and data management.

1. Download the 'Moresee' app from your device's app store.
2. Ensure Bluetooth is enabled on your mobile device.
3. Open the 'Moresee' app and follow the on-screen instructions to search for and pair with your RL-HM032BT meter.
4. Once paired, you can check and adjust equipment working data, customize names, and export historical data for maintenance purposes.

6. OPERATING INSTRUCTIONS

6.1. Power On/Off

The meter automatically powers on when the engine starts and displays real-time RPM. When the engine is off, it displays the total hours (TOT) value. The internal battery ensures continuous hour tracking.

6.2. Display Modes

Press the **MENU** button to cycle through different display modes:

- **TOT (Total Hours):** Displays the accumulated total operating hours (0 to 99,999 hours).
- **RPM (Revolutions Per Minute):** Displays real-time engine RPM (0 to 25,000 RPM) when the engine is running.
- **JOB (Partial Hours):** Records partial operating hours for specific tasks.
- **SVC (Service Reminders):** Displays maintenance reminder settings.
- **Clock/Calendar:** Displays current time and date (Month/Day/Year).

6.3. Setting Parameters

To enter settings mode, press and hold the **SET** button for a few seconds. Use **MENU** to navigate and **SET** to confirm or adjust values.

- **Engine Firing Pattern:** Select from 9 available engine firing patterns to ensure accurate RPM readings for 12 types of gasoline engines. Refer to the app or detailed manual for specific pattern selection.
- **Maintenance Reminders (SVC):** Set up to 35 groups of maintenance timers. Each group can be set from 5 to 2000 hours. The meter will remind you when a service interval is due.
- **RPM Alert:** Set a maximum RPM threshold. If the running RPM exceeds this value, the red backlight will illuminate, and the preset RPM alert value will flash.
- **TOT Initial Hours:** For new meter replacement, you can set an initial total hour value to match previous records.
- **Backlight Modes:** Choose between 'always on', 'sleeping' (dims after inactivity), or 'OFF'.
- **Clock/Calendar:** Adjust the current time and date.

7. MAINTENANCE

7.1. Battery Replacement

The meter uses a replaceable CR2032 lithium metal battery. When the battery indicator shows low power, replace it promptly.

1. Carefully open the battery compartment cover, usually located on the back of the meter.
2. Remove the old CR2032 battery.
3. Insert a new CR2032 battery with the positive (+) side facing up.
4. Close the battery compartment cover securely.

7.2. Cleaning

Wipe the meter's display and casing with a soft, damp cloth. Do not use abrasive cleaners or solvents, as they may damage the display or housing.

8. TROUBLESHOOTING

- **Meter not displaying:** Check the internal CR2032 battery. If using external power, ensure the 12V DC connection is secure and correct polarity is observed.
- **Inaccurate RPM readings:** Verify that the signal wire is wrapped correctly around the spark plug wire (5-8 wraps recommended). Ensure the correct engine firing pattern is selected in the settings.
- **Bluetooth connection issues:** Ensure Bluetooth is enabled on your mobile device and the 'Moresee' app is open. The meter may require external 12V DC power to sync with the app. Try restarting both the app and the meter.
- **Maintenance reminder not working:** Check that the SVC intervals are correctly set in the meter's settings or via the 'Moresee' app.

9. SPECIFICATIONS

Feature	Specification
Product Dimensions	2.6 x 1.38 x 0.69 inches
Item Weight	12.64 ounces
Model Number	RL-HM032BT 2PCS
Batteries	2 Lithium Metal batteries (CR2032) required (included)

Material	Polycarbonate (PC)
TOT Hours Range	0 to 99,999 hours
RPM Measurement Range	0 to 25,000 RPM
SVC Maintenance Setting Range	5 to 2000 hours (35 groups)
Water Resistance	IP67
External Power Support	DC 12V

10. WARRANTY AND SUPPORT

10.1. Warranty Information

Runleader products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your product or visit the official Runleader website. The warranty typically covers defects in materials and workmanship under normal use.

10.2. Customer Support

If you encounter any issues or have questions regarding your Runleader RL-HM032BT Tach/Hour Meter, please contact Runleader customer support. Contact information can usually be found on the product packaging, the official website, or through your purchase platform.

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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