

[Manuals.plus](#) /

› [Runleader](#) /

› Runleader Digital Hour Meter Tachometer RL-HM032A-1 User Manual

Runleader RL-HM032A-1

Runleader Digital Hour Meter Tachometer (Model RL-HM032A-1) Instruction Manual

Comprehensive guide for installation, operation, and maintenance.

1. INTRODUCTION

The Runleader Digital Hour Meter Tachometer, model RL-HM032A-1, is designed to monitor the total running hours, single job hours, and real-time RPM of gasoline-powered engines. It features a backlight for visibility in various conditions and a user-replaceable battery. This device assists in scheduling maintenance tasks and monitoring engine performance. It is suitable for a wide range of equipment including lawn mowers, generators, outboard motors, chainsaws, and ATVs.



Image: The Runleader Digital Hour Meter Tachometer displaying its various functions and features.

2. PACKAGE CONTENTS

Verify that all components are present in the package:

- Digital Hour Meter Tachometer Unit
- User Manual
- CR2032 Lithium Metal Battery (pre-installed or separate)
- Double-sided adhesive tape
- Cable ties (x2)
- Nuts (x4)
- Flat washers (x2)
- Bolts (x2)

ENGINE SIGNAL PICKUP



- It can works on 12 types of gasoline engines:
2 stroke 1/2/3/6 cylinders.
4 stroke 1/2/3/4/5/6/8/12cylinders.

Image: The Runleader Digital Hour Meter Tachometer shown with its various included accessories.

3. SETUP AND INSTALLATION

3.1. Battery Installation/Replacement

The device uses a CR2032 lithium metal battery. The new design allows for easier battery replacement by mounting it directly into the battery cover, reducing the risk of it falling out.

1. Locate the battery cover on the back of the unit.
2. Open the battery cover.
3. Insert the CR2032 battery with the positive (+) side facing up into the designated slot in the cover.
4. Securely close the battery cover.

CURRENT CRAFT VS PREVIOUS CRAFT

■ HOUSING CRAFT



Previous
Normal matte surface



Current
Waterproof glossy surface

■ BATTERY CARTIDGE

Previous

Insert the battery in cartridge, hard to install or replace it.



Current

Mount the battery in cover, easy to install but hard to fall off.



Image: A close-up of the hour meter, showing the battery compartment for easy replacement.

3.2. Mounting the Unit

The hour meter can be mounted using either adhesive tape or screws.

- **Stick-on Mounting:** Clean the desired mounting surface. Apply the provided double-sided adhesive tape to the back of the unit and firmly press it onto the surface.
- **Screw-on Mounting:** Use the provided bolts, nuts, and washers to secure the unit to a suitable location.



Image: Visual guide for both adhesive and screw mounting methods.

3.3. Engine Signal Connection

The device receives engine signals by wrapping its inductive wire around the spark plug cable.

1. Locate the spark plug cable of your engine.
2. Take the inductive wire (1.75 meters / 68.80 inches long) from the hour meter.
3. Wrap the inductive wire around the spark plug cable 5 to 8 times.
4. Secure the wrapped wire using the provided cable ties to prevent it from coming loose.
5. Ensure the connection is firm and does not interfere with moving engine parts.

ENGINE SIGNAL CONNECTION



PRODUCT INSTALLATION

■ Stick-on mounting



■ Screw-on mounting

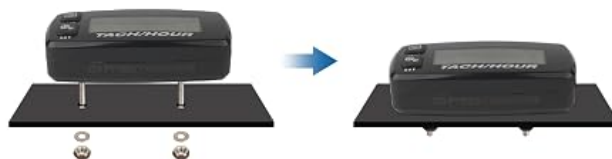


Image: Detailed illustration of connecting the signal wire to the spark plug cable on an engine.

4. OPERATING INSTRUCTIONS

The Runleader Digital Hour Meter Tachometer offers several functions accessible via its menu and set buttons.

4.1. Hour Meter Functions (TOT, JOB, SVC)

- **TOT (Total Hours):** Records the cumulative operating hours of the engine, ranging from 0 to 99,999 hours. This value cannot be reset.
- **JOB (Job Hours):** Records the operating hours for a single working period. This can be reset for each new task.
- **SVC (Maintenance Reminder Hours):** Sets a reminder for regular maintenance tasks, with a range of 0 to 200 hours. The device will alert you when the set maintenance interval is reached.



Image: The meter displaying TOT, JOB, and SVC hour readings.

4.2. RPM Meter Functions

- **Real-time RPM:** Displays the engine's revolutions per minute when the engine is running, with a measurement range of 0 to 20,000 RPM.
- **MAX RPM:** Records and displays the maximum RPM achieved since the engine was last started.
- **RPM Alert:** You can preset an RPM alert value (1,000 to 20,000 RPM). If the engine RPM exceeds this value, the backlight will turn red to indicate an over-revving condition.
- **Engine Ignition Pattern Calibration:** The device supports 9 programmable ignition patterns for 12 types of 2-stroke and 4-stroke gasoline engines. Refer to the detailed manual for specific calibration steps to ensure accurate RPM readings.



Image: The meter displaying real-time RPM, maximum RPM, and an example of the red RPM alert backlight.

4.3. Backlight Settings

The device features a backlight with multiple modes:

- **Default Green Backlight:** Provides visibility in low-light conditions.
- **Backlight Modes:** Can be set to "Always On", "Always Off", or "Automatic" (sleep mode).
- **Red Backlight Alert:** Automatically activates when the RPM alert threshold is exceeded.

Consult the full user manual for detailed instructions on navigating the menu and adjusting these settings.

5. MAINTENANCE

- **Battery Replacement:** Replace the CR2032 battery as described in Section 3.1 when the battery indicator shows low power.
- **Cleaning:** Wipe the unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Water Resistance:** The unit has an IP67 waterproof rating, meaning it is protected from dust and can withstand immersion in water up to 1 meter for 30 minutes. However, avoid prolonged submersion or high-pressure water jets directly on the unit.



Image: The hour meter undergoing a water resistance test, highlighting its IP67 rating against high-pressure water.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or dim.	Low battery or battery incorrectly installed.	Check battery installation. Replace CR2032 battery if needed.
RPM or Hour readings are inaccurate/not displayed.	Inductive wire not properly wrapped around spark plug cable or incorrect engine ignition pattern setting.	Ensure the inductive wire is wrapped 5-8 times around the spark plug cable. Verify the engine ignition pattern setting is correct for your engine type.
Unit does not respond to button presses.	Unit may be in sleep mode or battery is critically low.	Press any button to wake the unit. If unresponsive, replace the battery.

7. SPECIFICATIONS

Feature	Detail
Model Number	RL-HM032A-1
Brand	Runleader
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Weight	90 g
Battery Type	CR2032 Lithium Metal (included)
Total Hour Range (TOT)	0 - 99,999 hours
Maintenance Hour Range (SVC)	0 - 200 hours
RPM Measurement Range	0 - 20,000 RPM
RPM Alert Range	1,000 - 20,000 RPM
Measurement Accuracy	0.1
Waterproof Rating	IP67
Cable Length	1.75 meters / 68.80 inches

8. WARRANTY AND SUPPORT

The Runleader Digital Hour Meter Tachometer (Model RL-HM032A-1) comes with a **2-year warranty** from the date of purchase, covering manufacturing defects. For technical support, warranty claims, or any questions regarding the product, please contact Runleader customer service through their official website or the retailer where the product was purchased. Please retain your proof of purchase for warranty validation.

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Model number, symptoms, what you tried, or the section of the manual you are using.

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