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> Runleader RL-HM068A Digital Hour Meter and Tachometer Instruction Manual

Runleader RL-HM068A

Runleader RL-HM068A Digital Hour Meter and Tachometer Instruction Manual

Model: RL-HM068A

1. PRODUCT OVERVIEW

The Runleader RL-HM068A is a versatile digital hour meter and tachometer designed for small engines. It provides essential engine data, including total operating hours, job specific timers, real-time RPM readings, and maintenance reminders. This device is built for durability with favorable water resistance and features a replaceable internal battery.

Key Features:

- **Hour Meter:** Tracks total operating hours (non-resettable) up to 99999H.
- **Job Timer:** Resettable timer for tracking specific work periods.
- **Tachometer:** Measures and records engine RPMs (0-25000 RPM) with selectable refresh rates (0.5/1s). Includes an RPM alert range of 100-25000 RPM.
- **Maintenance Reminder:** Countdown tracking for service intervals (0 to 2000 hours).
- **Battery:** Built-in CR2032 battery, user-replaceable.
- **Display:** User-selectable display shutdown feature.
- **Durability:** IP67 water resistance rating.

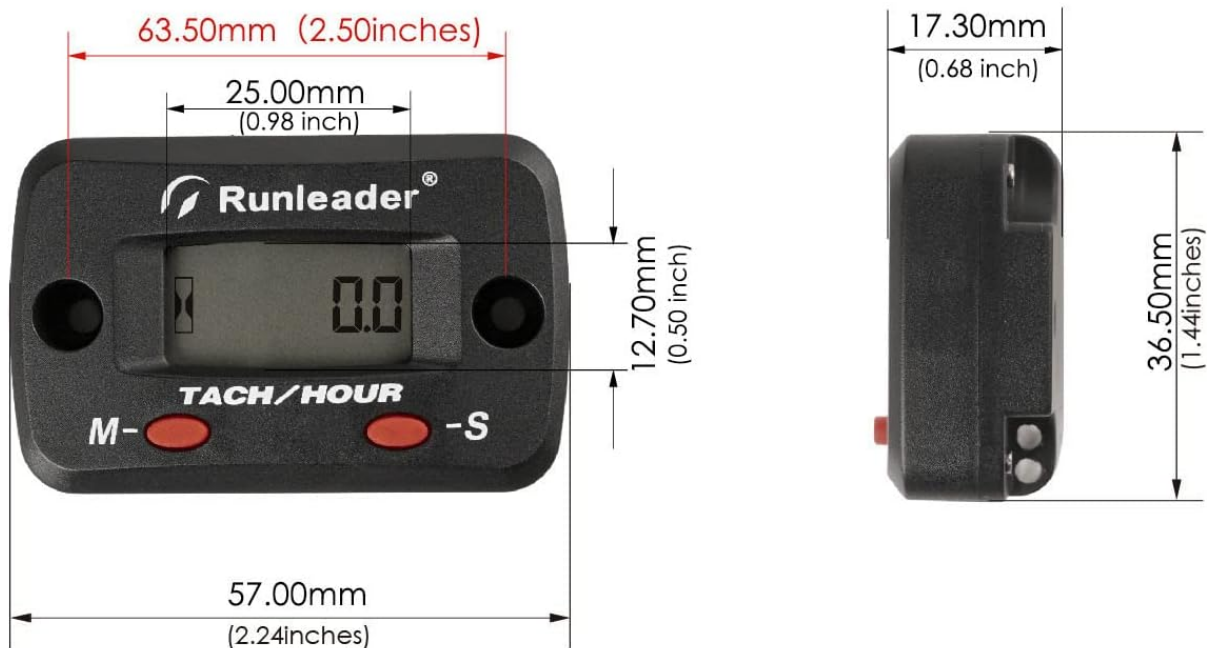
Package Contents:

Upon opening the package, verify that all components are present:

- Runleader RL-HM068A Digital Hour Meter/Tachometer
- User Manual
- 3M adhesive velcro (for mounting)
- Screws (x2, for mounting)
- Inductive cable (with alligator clip)
- Cable ties (x2)
- Screwdriver

DIMENSION & ACCESSORIES

■ Dimension



■ Accessories



User manual *1



3M adhesive velcro*1



Screws*2



Inductive cable*1



Cable tie*2



Screwdriver*1

Figure 1: The image displays the Runleader RL-HM068A digital hour meter and tachometer along with its accessories: a user manual, 3M adhesive velcro, two screws, an inductive cable with an alligator clip, two cable ties, and a screwdriver. These items are included in the product package.

2. SETUP AND INSTALLATION

2.1 Battery Replacement

The RL-HM068A uses a replaceable CR2032 battery. The battery capacity is maintained in good condition with an insulation sheet before use or during transport. To replace the battery:

1. Locate the battery cover on the back of the unit.
2. Use a coin or a flat tool to twist the battery cover counter-clockwise to open it.

3. Remove the old CR2032 battery.
4. Insert a new CR2032 battery with the positive (+) side facing up.
5. Replace the battery cover and twist clockwise to secure it.



Figure 2: The main product image of the Runleader RL-HM068A digital hour meter. The back of the unit contains the battery compartment, which can be opened with a coin for battery replacement.

2.2 Mounting the Unit

The unit can be mounted using either the provided 3M adhesive velcro or screws.

Screw-On Installation:

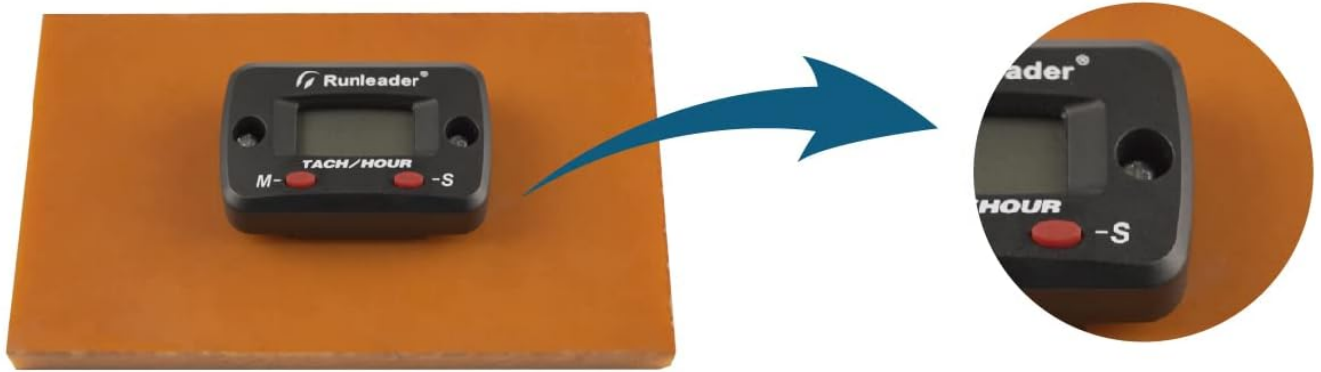
- Position the meter on a flat surface.
- Mark the two screw holes.
- Drill pilot holes if necessary.
- Secure the meter using the two provided screws.

Stick-On Installation:

- Clean the mounting surface thoroughly to ensure it is free of dust and grease.
- Peel off the backing from one side of the 3M adhesive velcro.
- Attach the adhesive velcro to the back of the meter.
- Peel off the backing from the other side of the adhesive velcro.
- Press the meter firmly onto the desired mounting location on your equipment.

PRODUCT MOUNTING

■ SCREW-ON



■ STICK-ON



Figure 3: This image illustrates two methods for mounting the hour meter: screw-on and stick-on. The screw-on method involves fastening the device with screws, while the stick-on method uses a 3M adhesive pad for attachment to a clean surface.

2.3 Signal Wire Installation

The signal wire detects engine activity. The inductive cable is 68.8 inches (1.75m) long and can be shortened or extended as needed.

1. Locate the spark plug wire on your engine.
2. Wrap the inductive cable around the spark plug wire approximately 5-7 times.
3. Secure the wrapped cable using the provided cable ties to prevent it from unwrapping or interfering with moving parts.
4. Ensure the alligator clip is securely attached to a metal part of the engine for grounding, if applicable to your model.

APPLICATION

It is applicable to gas engine powered equipments, such as:

- Lawn mower
- Generator
- Outboard motor
- Motorcycle
- ATV
- Chainsaw etc.

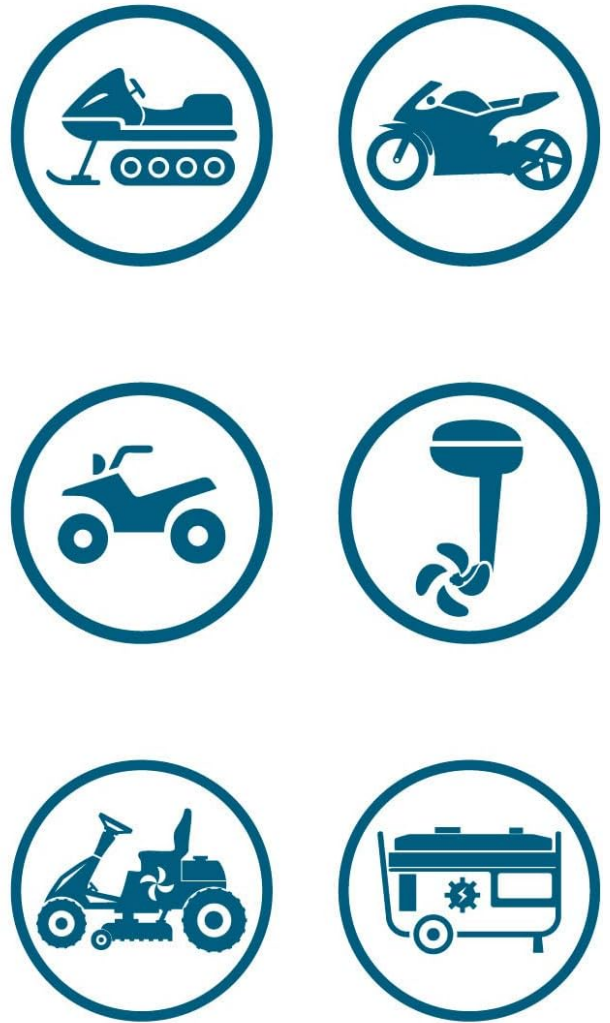


Figure 4: A close-up view demonstrating the engine signal pickup method. The inductive cable is wrapped around the spark plug wire of a small engine to detect ignition pulses for RPM and hour tracking. The cable length is approximately 1.75 meters (68.8 inches).

The unit is compatible with 13 types of gas engines:

- 2-stroke engines: 1, 2, 3, 4, 6 cylinders.
- 4-stroke engines: 1, 2, 3, 4, 5, 6, 12, 16 cylinders.

3. OPERATING INSTRUCTIONS

3.1 Display Modes

The RL-HM068A cycles through different display modes. When the engine is off, it typically displays total hours (TOT). When the engine is running, it displays real-time RPM.

LCD WORKING DISPLAY

■ STAND-BY ► WORKING



TOT: Display TOT value 0.0 when connect with engine.



RPM: Display real-time RPM when engine is on.

■ WORKING ► STAND-BY



RPM
(Engine run)



MAX RPM
(Engine off)



TOT
(5 seconds after engine off)

Figure 5: This image illustrates the LCD working display. In standby, it shows "TOT" (total hours) as 0.0. When connected to an engine and the engine is running, it displays real-time RPM, for example, 3000 RPM.

3.2 Hour Meter (TOT)

The Total Hours (TOT) display tracks the cumulative operating time of the engine. This value is non-resettable. The hour range is 0-99999H. The initial hours can be set when replacing a new meter.

3.3 Job Timer (TMR)

The Job Timer (TMR) allows you to track the operating time for specific tasks or work periods. This timer is resettable.

To Reset the Job Timer:

- While in the Job Timer display mode, press and hold the "S" button until the display resets to 0.0.

JOB TIMER



Press and hold the "S" button to reset



- You can view a partial hours during the single working period, it can be reset.

Figure 6: This image demonstrates the Job Timer function. It shows the meter displaying "TMR 1 26.8" and indicates that pressing and holding the "S" button will reset the timer to 00000, allowing for tracking of partial hours during a single working period.

3.4 Tachometer (RPM)

The tachometer measures and records engine RPMs, ranging from 0 to 25000 RPM. The refresh rate can be selected between 0.5 and 1 second. An alert range can be set from 100-25000 RPM.

3.5 Maintenance Reminder (SVC)

The maintenance reminder feature tracks a countdown to your next service interval. The maintenance timer range is 0 to 2000 hours. When the set service interval is reached, the display will alert you.

MAINTENANCE REMINDER(SVC)



- It schedule the regular maintenance and advise you the arrival time.

Figure 7: This image displays the Maintenance Reminder (SVC) function, showing "SVC 50.0" on the meter. This feature schedules regular maintenance and advises the user when the service interval is due.

3.6 User Display Shutdown

The unit features a user-selectable display shutdown option to conserve battery life. Refer to the detailed user manual included in the package for specific instructions on how to activate or deactivate this feature.

4. MAINTENANCE

The Runleader RL-HM068A is designed for low maintenance. Regular checks include:

- **Battery Check:** Monitor the low battery reminder. Replace the CR2032 battery as described in Section 2.1 when indicated.
- **Cable Integrity:** Periodically inspect the inductive cable for any signs of wear, damage, or loose connections. Ensure it remains securely wrapped around the spark plug wire.
- **Cleaning:** Wipe the unit with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Water Resistance:** The unit has an IP67 water resistance 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.

FAVORABLE WATER RESISTANCE



Figure 8: This image highlights the favorable water resistance of the hour meter, showing it submerged in a "Testing Tank" and indicating an IP67 waterproof rating. This means the device is protected against dust and temporary immersion in water.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with the Runleader RL-HM068A.

- **No Display/Blank Screen:**

- Check if the battery insulation sheet has been removed.
- Verify the CR2032 battery is correctly installed and has sufficient charge. Replace if necessary.
- Ensure the display shutdown feature is not activated.

- **Incorrect RPM Reading or No RPM:**

- Ensure the inductive cable is securely wrapped around the spark plug wire (5-7 wraps recommended).
- Check for any damage to the inductive cable.
- Verify the engine type setting (2-stroke/4-stroke, number of cylinders) matches your engine. Refer to the full manual for setting adjustments.

- **Timer Not Advancing:**

- Confirm the engine is running and the signal wire is properly installed.
- For the Job Timer, ensure it has not been manually reset.

If you experience issues not covered here, please refer to the comprehensive user manual or contact customer support.

6. SPECIFICATIONS

Feature	Specification
Brand	Runleader
Model Number	RL-HM068A
Hour Range	0-99999H
Maintenance Timer Range	0-2000 hours
RPM Range	0-25000 RPM
RPM Alert Range	100-25000 RPM
Refresh Rate	0.5s / 1s (selectable)
Battery Type	CR2032 Lithium Metal (included)
Water Resistance	IP67
Material	Plastic
Item Weight	2.12 ounces (60 Grams)
UPC	791568716792

6.1 Product Dimensions:

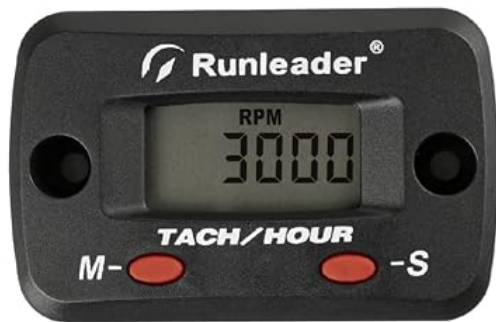


Figure 9: This diagram provides the precise dimensions of the Runleader RL-HM068A unit, including length, width, and height, in both millimeters and inches, for accurate installation planning.

6.2 Applicable Equipment:

The Runleader RL-HM068A is suitable for various gas engine-powered equipment, including but not limited to:

- Lawn Mowers
- Generators
- Outboard Motors
- Motorcycles
- ATVs
- Chainsaws
- Lawn Tractors
- Marine Engines
- Jet Skis
- Dirt Bikes

ENGINE SIGNAL PICKUP

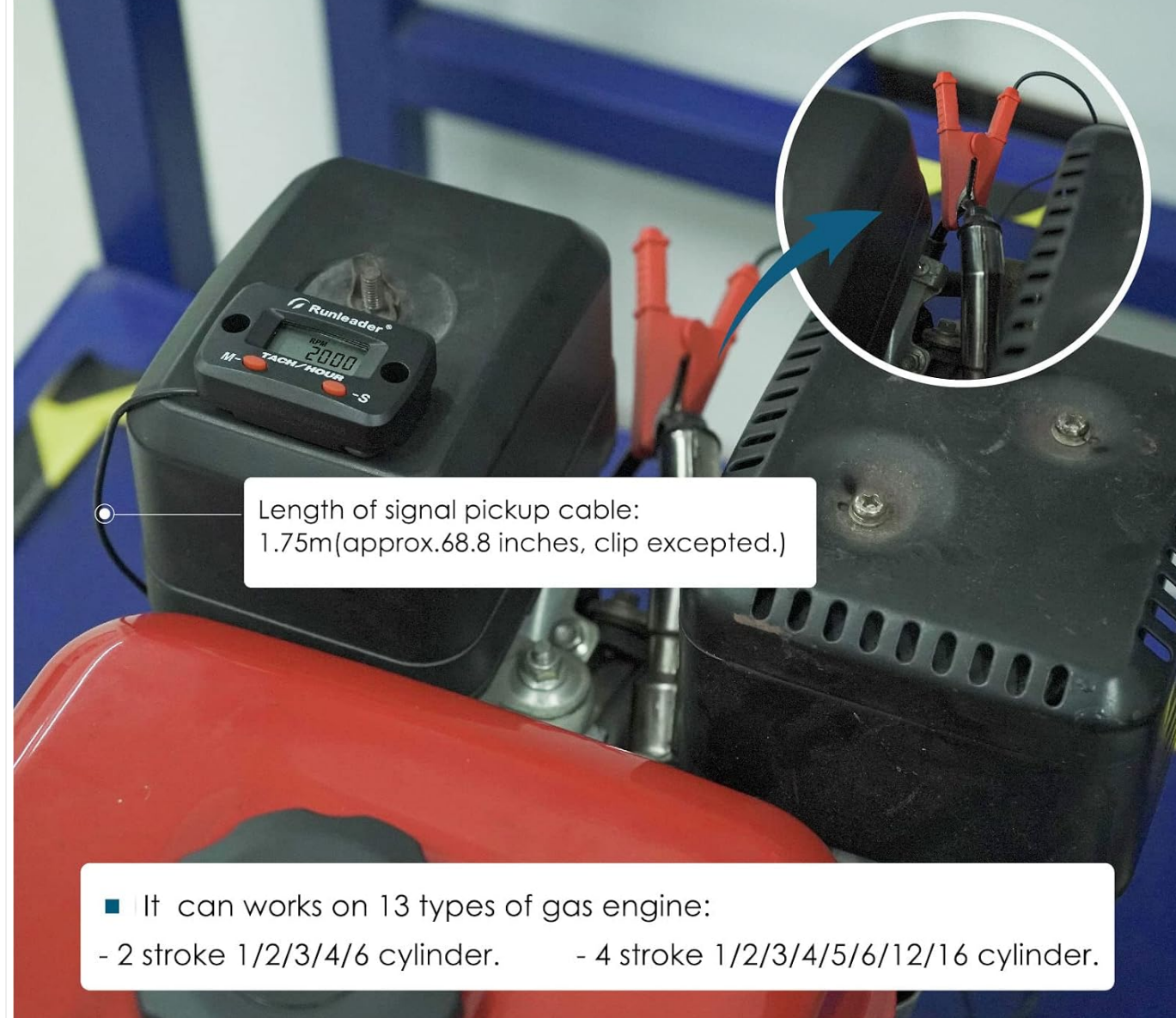


Figure 10: This image displays various applications for the hour meter, including riding mowers, snow blowers, chainsaws, and jet skis, demonstrating its versatility across different gas engine-powered equipment.

7. WARRANTY AND SUPPORT

Runleader provides reliable after-sales service and technical support for the RL-HM068A. The product comes with a 2-year warranty.

For further assistance, technical inquiries, or warranty claims, please refer to the contact information provided in your product packaging or visit the official Runleader store: [Runleader Store on Amazon](#).

8. SAFETY WARNINGS

INGESTION HAZARD: This product contains a button cell or coin battery. If swallowed, a lithium button cell or coin battery can cause severe internal chemical burns in as little as 2 hours and can lead to death. Keep new and used batteries OUT OF REACH OF CHILDREN. If you suspect a battery has been swallowed or inserted inside any part of the body, seek immediate medical attention.



Figure 11: This image displays a critical safety warning in multiple languages regarding the ingestion hazard of button cell batteries. It emphasizes keeping batteries out of reach of children and seeking immediate medical attention if swallowed.

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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

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