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Runleader RL-HM032C

Runleader Digital Tach Hour Meter (Model RL-HM032C) User Manual

Your guide to installation, operation, and maintenance.

1. INTRODUCTION

Thank you for choosing the Runleader Digital Tach Hour Meter, Model RL-HM032C. This device is designed to accurately track engine RPM and total operating hours, providing essential data for maintenance scheduling and performance monitoring. This manual provides detailed instructions for proper installation, operation, and maintenance to ensure optimal performance and longevity of your meter.



Image 1.1: The Runleader Digital Tach Hour Meter displaying engine RPM.

2. SAFETY WARNINGS

Please read all safety warnings carefully before installation and operation.

⚠ WARNING • INGESTION HAZARD: This product contains a button cell or coin battery. • DEATH or serious injury can occur if ingested. • A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours. • KEEP new and used batteries OUT OF REACH of CHILDREN. • Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.	
⚠ WARNUNG • VERSCHLUCKUNGSGEFAHR: Dieses Produkt enthält eine Knopfzelle oder Knopf-Batterie. • TOD oder schwere Verletzungen können bei Verschlucken auftreten. • Eine verschluckte Knopfzelle oder Knopf-Batterie kann in nur 2 Stunden innere Verätzungen verursachen. • BEWAHREN Sie neue und gebrauchte Batterien AUSSERHALB DER REICHWEITE von KINDER. • Suchen Sie sofort einen Arzt auf, wenn der Verdacht besteht, dass eine Batterie verschluckt oder in einen Körperteil eingeführt wurde.	
⚠ AVERTISSEMENT • RISQUE D'INGESTION: Ce produit contient une pile bouton ou une pile bouton. • La MORT ou des blessures graves peuvent survenir en cas d'ingestion. • Une pile bouton ou une pile bouton avalée peut provoquer des brûlures chimiques internes en aussi peu que 2 heures. • GARDEZ les piles neuves et usagées HORS DE PORTÉE des ENFAN. • Consultez immédiatement un médecin si vous soupçonnez qu'une batterie a été avalée ou insérée dans une partie du corps.	
⚠ AVVERTIMENTO • PERICOLO DI INGESTIONE: Questo prodotto contiene una pila a bottone o una batteria a bottone. • MORTE o lesioni gravi possono verificarsi se ingerito. • Una pila a bottone o una batteria a bottone ingerita possono causare ustioni chimiche interne in appena 2 ore. • TENERE le batterie nuove e usate FUORI PORTATA di BAMBINI. • Consultare immediatamente un medico se si sospetta che una batteria sia stata ingerita o inserita in qualsiasi parte del corpo.	
⚠ ADVERTENCIA • PELIGRO DE INGESTIÓN: Este producto contiene una pila de botón o una pila de botón. • LA MUERTE o lesiones graves pueden ocurrir si se ingiere. • Una pila de botón o una pila de botón tragada puede causar quemaduras químicas internas en tan solo 2 horas. • MANTENGA las pilas nuevas y usadas FUERA DEL ALCANCE de los NIÑOS. • Busque atención médica inmediata si un Se sospecha que la batería se ingiere o se inserta en cualquier parte del cuerpo.	
⚠ WAARSCHUWING • GEVAAR VOOR INSLIKKEN: Dit product bevat een knoopcel- of knoopcelbatterij. • DOOD of ernstig letsel kan optreden bij inslikken. • Een geslikte knoopcel of knoopcelbatterij kan in slechts 2 uur interne chemische brandwonden veroorzaken. • HOUD nieuwe en gebruikte batterijen BUITEN BEREIK van KINDEREN. • Zoek onmiddellijk medische hulp als het vermoeden bestaat dat een batterij is ingeslikt of in een deel van het lichaam is geplaatst.	

Image 2.1: Important safety warning regarding button or coin cell battery ingestion. This product contains a button or coin cell battery. Ingestion can cause severe injury or death. Keep new and used batteries away from children. Seek immediate medical attention if a battery is suspected to have been swallowed or inserted into any part of the body.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Runleader Digital Tach Hour Meter (Model RL-HM032C)
- 3M adhesive velcro for mounting
- Cable ties (x2)
- CR2032 Battery (pre-installed or included separately)
- User manual (this document)

WATERPROOF

IP65
Waterproof



Nuts*4, Washers*2, Screws*2

Double-sided tape

cable ties *2

Instructions

Image 3.1: Illustration of the meter, mounting accessories (3M adhesive velcro, cable ties), and the instruction manual included in the package.

4. SETUP AND INSTALLATION

4.1 Battery Installation/Activation

The meter comes with a CR2032 lithium metal battery. If the battery is not pre-installed or requires activation, follow these steps:

1. Locate the battery compartment on the back of the meter.
2. Use a coin or small screwdriver to open the battery cover by turning it counter-clockwise.
3. Insert the CR2032 battery with the positive (+) side facing up.
4. Replace the battery cover and turn it clockwise to secure.

BATTERY REPLACEMENT



Image 4.1: Detailed view of the battery compartment and the CR2032 battery for replacement.

4.2 Mounting the Meter

The meter can be mounted using the provided 3M adhesive velcro or cable ties.

- **Adhesive Mounting:** Clean the desired mounting surface thoroughly. Attach one side of the 3M adhesive velcro to the back of the meter and the other side to the mounting surface. Press firmly to secure.
- **Cable Tie Mounting:** Use the provided cable ties to secure the meter to a suitable location, such as a handlebar or frame.

4.3 Wiring for RPM and Hour Tracking

The meter tracks RPM and hours by sensing the electrical pulses from the spark plug wire.

1. Locate the spark plug wire on your engine.
2. Wrap the sensor wire from the meter tightly around the spark plug wire. For optimal accuracy, coil the sensor wire around the spark plug wire multiple times (e.g., 5-7 wraps) and secure it with a cable tie. Ensure the connection is firm to prevent spurious readings.
3. Route the sensor wire away from moving parts and heat sources, securing it with cable ties as needed.



Suitable for gas engine:
2 stroke up to 6 cylinders.
4 stroke up to 16 cylinders.

Range Selection	Measurement Range
R1	0-25000 RPM
R2	0-18000 RPM
R3	0-12000 RPM
R4	0-6000 RPM

Image 4.2: Diagram illustrating the proper method for wrapping the sensor wire around the spark plug wire for accurate signal detection. The wire length is approximately 68.8 inches.

4.4 Engine Type and RPM Range Selection

To ensure accurate RPM readings, configure the meter for your specific engine type and desired RPM measurement range.

- The meter is suitable for gas engines: 2-stroke engines up to 6 cylinders and 4-stroke engines up to 12 cylinders.
- Refer to the table below for RPM range selection (R1-R4) based on your engine's maximum RPM. This setting is typically adjusted via the 'SET' button in configuration mode.

Range Selection	Measurement Range
R1	0-25000 RPM
R2	0-18000 RPM

Range Selection	Measurement Range
R3	0-12000 RPM
R4	0-6000 RPM

5. OPERATING INSTRUCTIONS

The Runleader Digital Tach Hour Meter features multiple functions accessible via its buttons (MENU and SET).

5.1 Hour Meter Functions

- **Total Hours (TOT):** Accumulates engine total working hours. The timing reads up to 99,999 hours with 0.1 or 1-hour accuracy. TOT hours are non-resettable but will restart from 0 if the value exceeds 99,999 hours.
- **Initial Hours Setting:** Allows programming of initial total hours, useful when replacing an old hour meter.
- **Partial Time:** Records the working period for each engine operation cycle.



Image 5.1: The meter displaying 'TOT' (Total Hours) and icons representing Total Hours, Partial Time, Service Reminder (SVC), and

5.2 Tachometer Functions

- **Real-time RPM:** Records and displays the engine's real-time RPM value when the engine is running. Measurement range is 0-20000 RPM with 10 RPM resolution.
- **Maximum RPM:** Displays the highest RPM recorded since the engine was last started.
- **RPM Alert:** Features an RPM alert channel for speed exceedance. The meter will remind you by displaying a red backlight and a flashed warning icon when the set RPM limit is surpassed.

RPM



Image 5.2: Top image shows the standard green backlight RPM display. Bottom image shows the red backlight and warning icon indicating an RPM alert condition.

5.3 Backlight Display

The meter features a green and red backlight display. The backlight mode is programmable. While the green backlight enhances visibility, continuous use will consume battery power more rapidly. The meter retains data even after shutdown.

6. MAINTENANCE

6.1 Service Reminders (SVC)

The meter includes a countdown tracking service reminder time (SVC). It will remind you of an arrived service status by a flashed icon. The maintenance time range can be set from 0 to 200 hours.

6.2 Job Timer (JOB)

The JOB timer is used to measure the duration of specific work tasks, such as oil changes or air filter replacements. This value can be reset after each task.

6.3 Battery Replacement

The CR2032 battery is replaceable. When the display dims or functions become erratic, it is time to replace the battery. Follow the steps outlined in Section 4.1.

6.4 Cleaning

Clean the meter's display and casing with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the unit.

7. TROUBLESHOOTING

- **Inaccurate RPM Readings:** Ensure the sensor wire is tightly coiled around the spark plug wire (5-7 wraps recommended) and secured. Verify that the correct engine firing pattern and RPM measurement range are selected in the meter's settings.
- **No Display/Dim Display:** Check the battery. Replace the CR2032 battery if necessary. Ensure the battery is inserted correctly.
- **Water Exposure:** The meter has an IP65 waterproof rating, meaning it is protected from dust and low-pressure water jets. While designed to withstand splashes and rain, prolonged submersion or high-pressure water exposure is not recommended and may compromise the unit.
- **Data Loss:** The meter is designed to retain data after shutdown. If data is lost, check the battery connection and ensure the battery has sufficient charge.

8. SPECIFICATIONS

Feature	Specification
Model Number	RL-HM032C
Product Dimensions	2.69 x 1.37 x 0.67 inches (68.5 x 34.9 x 17.2 mm)
LCD Window Size	Approx. 1.6 x 0.66 inches
Item Weight	70 Grams (2.47 ounces)
Material	Acrylonitrile Butadiene Styrene (ABS)
Battery Type	1 x CR2032 Lithium Metal Battery (included)
RPM Measurement Range	0-20000 RPM

Feature	Specification
RPM Resolution	10 RPM
Hour Accuracy	0.1/1 hour
Maintenance Time Range	0-200 hours
Waterproof Rate	IP65
Certifications	CE, ROHS
Manufacturer	Ningbo Jiangbei Run Leader Electrics Co.,Ltd

WATERPROOF

IP65
Waterproof



Nuts*4, Washers*2, Screws*2



Double-sided tape



cable ties *2



Instructions

Image 8.1: Product dimensions and IP65 waterproof rating details.

9. TYPICAL APPLICATIONS

The Runleader Digital Tach Hour Meter is versatile and suitable for a wide range of gasoline-powered equipment,

including but not limited to:

- Lawn Mowers
- Generators
- Air Compressors
- Snowblowers
- Motorcycles
- ATVs (All-Terrain Vehicles)
- Pressure Washers
- ZTR (Zero-Turn Radius) Mowers



Image 9.1: Examples of equipment where the Runleader Digital Tach Hour Meter can be used.

10. WARRANTY AND SUPPORT

10.1 Warranty Information

This Runleader product comes with a 2-year warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accident, unauthorized modification, or improper installation.

10.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact Runleader customer support through the retailer where the product was purchased or visit the official Runleader store online.

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.

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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.

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