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› Runleader Digital Tach/Hour Meter User Manual

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Runleader Digital Tach/Hour Meter User Manual

Model: Digital Tach/Hour Meter

1. INTRODUCTION

Thank you for choosing the Runleader Digital Tach/Hour Meter. This device is designed to monitor engine RPM and total operating hours, as well as provide maintenance reminders for various gasoline-powered equipment. Please read this manual thoroughly before installation and operation to ensure proper use and longevity of the product.



Image 1.1: The Runleader Digital Tach/Hour Meter, showing the main unit and the inductive signal wire.

2. SAFETY INFORMATION

- Always disconnect the spark plug wire before working on the engine to prevent accidental starting.
- Ensure all connections are secure to prevent electrical shorts or signal loss.
- Do not attempt to open or modify the device, as this may void the warranty and cause damage.
- Keep the device away from extreme temperatures, corrosive materials, and strong vibrations.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

PRODUCT DIMENSION & ACCESSORIES

■ Dimensions



■ Accessories

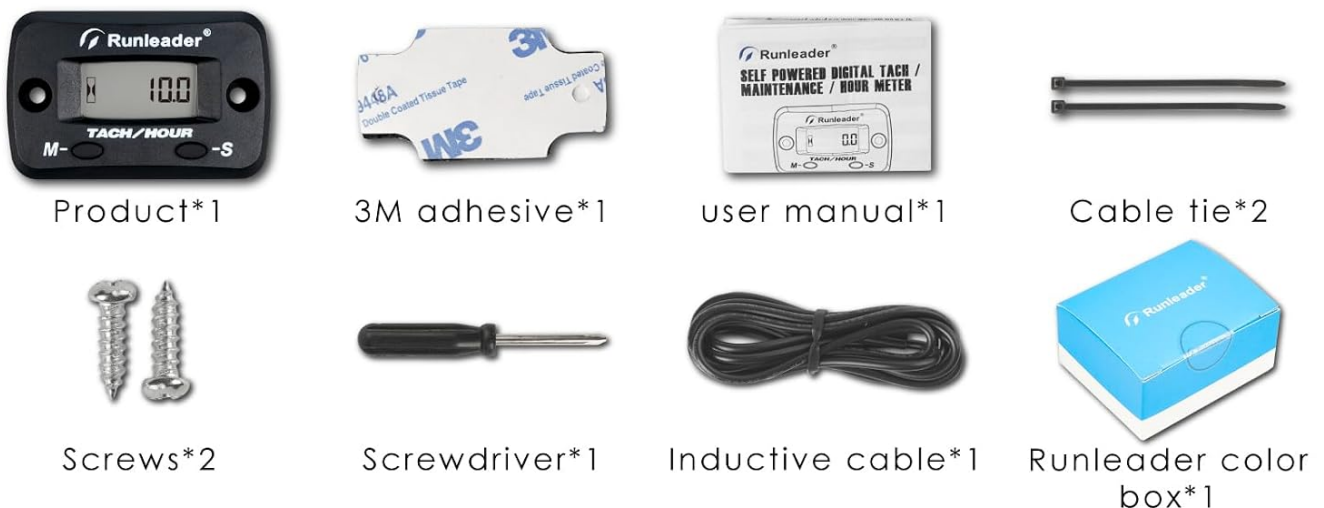


Image 3.1: Contents of the Runleader Digital Tach/Hour Meter package.

- Digital Tach/Hour Meter (Product*1)
- 3M Adhesive (3M adhesive*1)
- User Manual (user manual*1)
- Cable Ties (Cable tie*2)
- Mounting Screws (Screws*2)
- Screwdriver (Screwdriver*1)
- Inductive Cable (Inductive cable*1)
- Runleader Color Box (Runleader color box*1)

4. PRODUCT OVERVIEW

The Runleader Digital Tach/Hour Meter features a clear LCD display and two control buttons, 'M-' and '-S', for mode selection and settings adjustment.

PRODUCT DIMENSION & ACCESSORIES

■ Dimensions



■ Accessories



Product*1



3M adhesive*1



user manual*1



Cable tie*2



Screws*2



Screwdriver*1



Inductive cable*1



Runleader color box*1

Image 4.1: Detailed dimensions of the Runleader Digital Tach/Hour Meter.

- Length: 57.00mm (2.24 inches)
- Width: 25.00mm (0.98 inches)
- Height: 17.30mm (0.68 inches)
- Display Area: Approximately 36.50mm x 12.70mm (1.44 inches x 0.50 inches)

5. INSTALLATION

5.1 Mounting the Device

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

PRODUCT MOUNTING

■ Screw-on



■ Stick-on



Image 5.1: Illustration of screw-on and stick-on mounting methods for the meter.

- **Screw-on:** Use the two provided screws to secure the meter to a suitable flat surface on your equipment.
- **Stick-on:** Clean the mounting surface thoroughly. Peel off the backing from the 3M adhesive and firmly press the meter onto the desired location.

5.2 Signal Wire Connection

The inductive signal wire is used to detect engine RPM.

SIGNAL WIRE CONNECTION

■ Signal wire connection



Total length:
1.75 meters/68.8 inches

- It is applicable to most of 2 or 4 stroke gasoline engine:
 - 2 stroke 1/2/3/6 cylinders.
 - 4 stroke 1/2/3/4/5/6/8/12/16 cylinders.

Image 5.2: Diagram showing how to wrap the inductive signal wire around the spark plug wire.

- Wrap the inductive signal wire around the spark plug wire of your engine. Typically, 5-7 wraps are sufficient for a strong signal.
- Secure the inductive wire with the provided cable ties to prevent it from coming loose or interfering with moving parts.
- The total length of the inductive cable is 1.75 meters (68.8 inches).

5.3 Engine Type Selection

To ensure accurate RPM readings, select the correct engine firing pattern for your gasoline engine. The meter supports 9 firing patterns for 13 types of gasoline engines:

- 2-stroke engines: 1, 2, 3, 6 cylinders
- 4-stroke engines: 1, 2, 3, 4, 5, 6, 8, 12, 16 cylinders

Refer to the detailed instructions in the included user manual for how to navigate the settings menu and select the appropriate engine type.

6. OPERATING INSTRUCTIONS

6.1 RPM and Hours Display

The meter displays both current RPM and total operating hours.

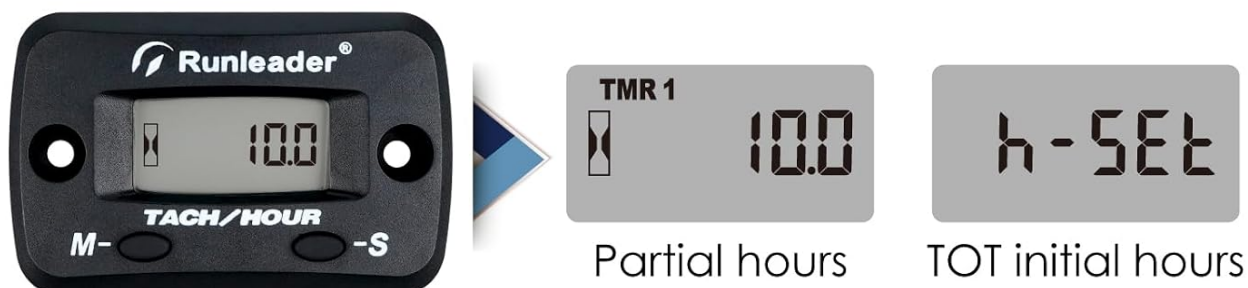
RPM & HOURS DISPLAY

RPM:



- It displays the current RPM value when the engine is on.
RPM range: 0 to 6000 RPM.
- You can also check the historic maximum RPM since the engine started.

HOURS:



- It begins to record the total hours when the engine is on, and displays it when the engine is off.
- You can set the initial value for old hour meter replacement.
- Available as a resettable hours record during single working period.

Image 6.1: Examples of RPM and Hours display, including MAX RPM and initial hour setting.

- When the engine is running, the meter displays the current RPM value (range: 0 to 6000 RPM).
- When the engine is off, the meter displays the total accumulated hours (TOT hours range: 0 to 99,999 hours).
- You can view the historical maximum RPM recorded since the engine started.
- A resettable partial hours record (JOB) is available for single working periods.
- You can set an initial start hour for total hours tracking within 1 hour before the engine starts, useful for replacing old hour meters.

6.2 Maintenance Reminder (SVC)

The meter includes a maintenance reminder function to help you keep track of service intervals.

MAINTENANCE REMINDER



- Do the regular maintenance task and advise you the arrival time.

Image 6.2: The SVC maintenance reminder display on the meter.

- Set maintenance intervals (SVC channels) from 0 to 2000 hours.
- The meter will alert you when a scheduled maintenance interval is approaching or due.

6.3 Other Features

- **Water Resistance:** The device has an IP67 water resistance rating, making it suitable for outdoor use and resistant to dust and temporary immersion in water.

FAVORABLE WATER RESISTANCE



Image 6.3: Illustration of the meter's IP67 water resistance during a test.

- **LCD Display Shutdown:** The display can be configured to shut down to conserve battery life.
- **Built-in Battery:** Powered by a CR2032 210mAh battery.

7. MAINTENANCE

The Runleader Digital Tach/Hour Meter requires minimal maintenance. Regularly check the inductive wire connection for wear or damage. Keep the display clean with a soft, dry cloth. The built-in CR2032 battery is designed for long-term use and is generally not user-replaceable. If the battery needs replacement, it is recommended to contact customer support.

8. TROUBLESHOOTING

- **No RPM Reading:** Ensure the inductive wire is securely wrapped around the spark plug wire (5-7 wraps recommended). Verify the engine type setting is correct.
- **Inaccurate RPM Reading:** Double-check the engine type setting. Ensure the inductive wire is not too close to other

electrical interference sources.

- **Display Not Working:** The built-in battery may be depleted. If the display remains off after the engine runs, contact customer support.
- **Maintenance Reminder Not Activating:** Verify that the SVC interval is correctly set in the meter's settings.

9. SPECIFICATIONS

Feature	Specification
Brand	Runleader
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Weight	2.05 Ounces
UPC	760752453997
Manufacturer	Ningbo Jiangbei Run Leader Electronics Co., Ltd
TOT Hours Range	0 to 99,999 hours
RPM Measurement Range	0 to 6000 RPM
SVC Maintenance Timer Range	0 to 2000 hours
Engine Types Supported	2-stroke (1/2/3/6 cylinders), 4-stroke (1/2/3/4/5/6/8/12/16 cylinders)
Inductive Cable Length	1.75 meters / 68.8 inches
Water Resistance	IP67
Battery	Built-in CR2032 210mAh

10. APPLICATION

The Runleader Digital Tach/Hour Meter is applicable to a wide range of gasoline engine-powered equipment, including but not limited to:

APPLICATION

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

- Lawn mower
- Generator
- Motorcycle
- Outboard motor
- Boat
- Chainsaw etc



Image 10.1: Visual representation of various equipment types compatible with the meter.

- Lawn Mowers
- Generators
- Motorcycles
- Outboard Motors
- Boats
- Chainsaws
- ATVs
- Jetskis

11. WARRANTY AND SUPPORT

Runleader provides reliable technical support and after-sales service for this product. The product typically comes with a 2-year warranty. For warranty claims, technical assistance, or any inquiries, please refer to the contact information provided with your

purchase or visit the official Runleader website.

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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