Product Installation al wire installation A Signal wire connection: Wrap the signal wire around the spark plug, wrap it 4 to 5 turns, and fasten it with a cable tie to ensure it is effectively fixed and will not loosen. (If the connection is not strong, the tachometer will get insufficient signal, then the RPM and Hour values will be a) For traditional ignition mo spark plug wire.
b) For "pencil coil" ignition, w rap signal wire 4 to 5 turns tightly around the engine The spark plug signal generated by different engine types has the difference of strength and akiness. By adjusting the turns of winding, the appropriate adjustment can be made to improve a occuracy of the RPM and timing data. This is a skill that different degree spark plug signal that ows the induction wire to acquire. Under the normal conditions, you can increase the winding turns if the RPM is lo and reduce the windi turns if the RPM is high. √@ 2 stroke installantion,wrap pickup wire around spark plug lead. Product Usage Product display interface
The tachometer contains 5 main displayers the "MENU" button to view the In the corresponding interface, press ce data. ' button to set or program its function <u>00 ≈ 100</u> L IE Auto **345**

OPERATING

INSTRUCTIONS

Self Powered Digital Tach Maintenance Hour Meter

Product Accessories List

5 Battery CR2032*1

2. Clock setting---- The clock is a 24-hour clock. 2. Clock setting---- The clock is a 24-hour clock.
Clock setting and operation need to be performed under display interface 1. (figure a) Press the "SET" button once until the "O" i con start flashing.
b) Press and hold the "SET" button again until display shows "00" character start flashing, releas and press "SET" button to get the minute value you want, and the "MENU" button to select the hour value; press "SET" button again to get the hour value you want.
c) Release the button and wait for 10 seconds and display will return to display interface 1. (The setting of clock is completed) ical RPM di

a) When the tach hour meter detect the engine spark plug signal for more than 1s continuously, the LCD will display the current RPM of the engine.
b) The RPM can be programmed for different pulses per revolution; Different programming setting will get different RPM. Programmable ngine revolutio s produ es 9 Programmable onship in the form b ng re 4 stroke 1 cylinde 1P2R 2P1R 3P1R 3P2R 4 stroke 8 cylinde 4P1R 4 stroke 12 cylinder / 2 stroke 6 cylinder 4 stroke 16 cylinder Note: Some 4 stroke 1 cylinder engine is 1P1R, the setting is the sa cylinder engine.

a) Press the "MENU" button twice to get the display interface 3.
b) Press the "SET" button twice until display shows "Stro" icon start flashing, c) Press and hold the "SET" button until display shows "1P1r" icon start flashing, release and pr "SET" or "MENU" button to toggle through all engine firing patterns setting.
d) Stop at correct firing pattern setting for your engine.
e) Walt for 10 seconds and display will return to display interface 1. (The setting of firing pattern completed) ote: If the obtained RPM is not accurate, for ex an adjust it by programming the firing patterns.

ton 2 tim

0-25000 RPM

ST RANGO

To reset MAX RPM:
a) Press the "MENU" button once to get the display interface 2.
b) Press the "SET" button once until display shows "MAX RPM"
c) Press and hold the "SET" button until display shows "00000"

Alert RPM setting and operation need to be perform a) Press the "MENU" button twice to get the display interface 3.
b) Press the "SET" button once until display shows "RPM" and "△ " icon start flashin c) Press and hold the "SET" button until display shows "OFF icon start flashing, releating the "SET" button until display shows "OFF icon start flashing, releating "MENU" or "SET" button until you get desired alert RPM numerical value.
d) Release the button and wait for 10 seconds and display will return to display interfasetting of alert RPM is completed)
e) If the alert RPM numerical value is set to OFF, which means that the alert RPM func

RPM refresh rate---- Selecting the right refresh rate will help you get mol accurate engine RPM data RPM refresh rate setting and operation need to be perform (figure 4) a) Press the "MENU" button 3 times to get the display interface 4.
b) Press the "SET" button twice until display shows "RE" icon start flashing.
c) Press and hold the "SET" button until display shows "0.5" icon start flashing, and press
"MENU" or "SET" button to toggle through all RPM refresh rate setting.
d) Release the button and wait for 10 seconds and display will return to display interface 1
(The setting of RPM refresh rate is completed)

[™]|_∞ 12:00 11. Hour meter initial time settir data) to replace an old timer. Hour meter initial time setting ar 1. (figure 1) a) Press the "MENU" button to get the display interface 1.
b) Press the "SET" button twice until display shows "TOT" icon start flashing.
c) Press and hold the "SET" button until display shows "0000.0" icon start flashing, release and press "SET" button to get the number you want, and the "MENU" button to select the value digit, d) Release the button and wait for 10 seconds and display will return to "TOT" total hours. (The setting of the hour meter initial time is completed)

JOB setting and operation need to be performed under display interfa To view "JOB" time: Press the "MENU" button twice. To reset "JOB" time: lo reset "MENU" button twice to get the display interface 2.
b) Press the "SET" button twice until display shows "JOB" icon start flashing.
c) Press and hold the "SET" button until display shows "0000.0" icon start flashing, JOB tim reset and you will begin to record the next job interval.

15. Backlight choice Backlight setting and op

View the times of engine starts need to be performed under displa Press the "MENU" button 4 times until to get the display interface 5, the the display screen indicates the number of engine starts. TOT 12:00 ■ 12:00

Battery replacement

Product model

Alert RPM setting range

VC / SVC2 range

RPM refresh rate

Initial time setting

Backlit mode

Battery typ

Working times

About extending the service life of product

al Press the "MENU" button 4 times to get the display interface 5.

b) Press the "SET" button once until display shows "Lit" icon start flashing.

c) Press and hold the "SET" button until display shows "Auto" icon start flashing, and press
"MENU" or "SET" button to toggle through all backlight mode setting.

d) Release the button and walt for 10 seconds and display will return to display interface 1.

setting of backlight mode is completed) Auto meaning: the backlight will be auto Auto meaning: the backlight is always on.

ON meaning: the backlight is always on.

OFF meaning: turn off the backlight display.

The choice of backlight mode will have a direct implargest power consumption.

ed to be p

Press and hold

Parameters

RL-HM032B

0-25000 RPM

0-1000H

0.58 / 1.08

Yes (within 1H)

ON/Auto/OFF

CR2032 210mAh

0-99999 times

40.8

0.0

 a) Press the "MENU" and the "SET" button at the same time until the "OFF" icon displayed on the screen, then release the button and the LCD display will shut down automatically. ure screen, inen resease the button and the LCD display will shut down automatically.

b) Once detect the continuous engine signals within 8 seconds,or press the "MENU" or "SET" button again, the LCD screen will be displayed.

c) When the LCD screen is turned off, the clock will continue to run and the historical data will be retained and will not be cleared.

e interval time. Note: Timing is countdown.

13. SVC---- Maintenance interval time. Note: Timing is countdown. When the maintenance interval time is reached, and the LCD display will flashing and the backlight color will turn red , then press the "SET" or "MENU" button to clear the status, the no maintenance interval time starts timing. SVC setting and operation need to be performe Programming SVC time: a) Press the "MENU" button to get the display interface 1.
b) Press the "SET" button 3 times until display shows "SVC" icon start flashing.
c) Press and hold the "SET" button until display shows "OFF" icon start flashing, release and press "MENU" or "SET" button until you get desired SVC numerical value.
d) Release the button and wait for 10 seconds and display will return to display interface 1. (Th setting of SVC timer is completed)
e) The SVC timer setting range is 0-1000H. If the SVC is set to OFF, which means the SVC function is closed. es button 3 tir

ross the button 2 time

0 - 25000 n - 12500 0 - 8000 0 - 6250

er display interface 1. (figure 1)

6 spark per revolution 8 spark per revolution

6. RPM measurement range---- Selecting the right measurement range will help you get more accurate engine RPM data ■ Different measurement RPM ranges are sele ensure better anti-jamming performance of the to obtain accurate RPM data.
■ The default speed measurement range is r1.
■ Real-time RPM data beyond the RPM measurange will not be displayed accurately.
■ The RPM data obtained under different RPM measurement ranges may be different. RPM measurement range setting and operation need to be performed under display interface 4. (figure 4)
a) Press the "MENU" button 3 times to get the display interface 4. b) Press the "SET" button once until display shows "RAMG RPM" icon start flashing.
c) Press and hold the "SET" button until display shows "01" icon start flashing, release and press "MENU" or "SET" button to toggle through all RPM measurement range setting.
d) Release the button and wait for 10 seconds and display will return to display interface 1. (The setting of the RPM measurement range is completed) The MAX RPM view and operation in display interface 2 (figure 2)
To view MAX RPM: Press the "MENU" button for once until display shows the "MAX RPM
To reset MAX RPM:

When the RPM of the engine during the operation exceeds the set value, the meter will alarm to remind. The RPM value and warning icon will flash and the backlight color will turn red. 5tr 000 gar 5tr 000 gar 5tr 000 a) It will always be displayed on the screen without shutting down.
b) TOT time can not reset.
c) The TOT time max value is 99999; When the TOT timing range is 0.0-9999.9hours, the timing accuracy is 0.1h; When the TOT timing exceeds 9999.9hours, the timing accuracy is 1H.
d) When the TOT time exceeds 99999 hours, the timing will restart from 0.

<u>~~999999</u> ~~ 108 |**© 15:00** Press and hold © 15:00

Press and hold |_∞ ||2 : 000 SVC2 setting and operation need to be performed display interface 2. (figure 2); SVC2's view and resthe same operation as SVC. natically turned off, when press the button, the backlight

12345

der display interface 5. (figure 5) face 5, the number at the bottom of

12345

™ 00 ™ 100 □ 12 : 00 OFF When the battery icon on the display screen starts to flash, it indicates that the battery voltage is very low and a new battery needs to be replaced. To extend the life of your product, you can apply it as follows: a) Avoid product are always in a very humid environment—there is a risk of moisture intruding inside the product, causing the product to consume more electricity. b) Avoid product that are always in a high temperature environment (exceed 125°F) — high temperature environment has the risk of increasing the discharge rate of the internal battery CR2032. c) Minimize the frequency of button operations---- continuous button operation, function switching, the power consumption will increase. of Minimize the measurement at high speed (more than 15000RPM)— In the case of ultra-high engine RPM, the data calculation load of the internal IC of the product will increase, and the power consumption will increase. **Product Specifications & Parameters** Parameters Item name Dimension 68.5×34.9×17.2mm Display window size (viewable) 40.8×16.8mm 1P1R 1P2R 2P1R 3P1R 3P2R 4P1R 5P2R 6P1R 8P1R Maximum RPM range-01 0-25000 RPM Maximum RPM range-02 0-18000 RPM aximum RPM range-03 0-12000 RPM Maximum RPM range-04 0-6000 RPM Waterproof rate IP67 g n ΔRS Weight About 48g **Product Dimension** Unit: mm CE ROL