13. Operation Map

```
┌─────────────────────────────────┐
│   TOT interface,backlight off    │
└─────────────────────────────────┘
        ↓ Short press "M" or "S" once
┌─────────────────────────────────┐
│   TOT interface,backlight on     │
└─────────────────────────────────┘
        ↓ Short press "M" once
┌─────────────────────────────────┐                              ┌──────────────────────┐
│   JOB interface,backlight on     │──── Long press "M" 3S ────▶  │   Clear JOB time     │
└─────────────────────────────────┘                              └──────────────────────┘
        ↓ Short press "M" once                                    After cleaning,LCD display 0.0
┌─────────────────────────────────┐                              ┌──────────────────────┐
│   JOB2 interface,backlight on    │──── Long press "M" 3S ────▶  │   Clear JOB2 time    │
└─────────────────────────────────┘                              └──────────────────────┘
        ↓ Short press "M" once                                    After cleaning,LCD display 0.0
┌─────────────────────────────────┐                              ┌──────────────────────┐
│   SVC interface,backlight on     │──── Long press "M" 3S ────▶  │     SVC setting      │
└─────────────────────────────────┘                              └──────────────────────┘
        ↓ Short press "M" once                                    Press M to reduce, press S to add
┌─────────────────────────────────┐                              ┌──────────────────────┐
│   SVC2 interface,backlight on    │──── Long press "M" 3S ────▶  │     SVC2 setting     │
└─────────────────────────────────┘                              └──────────────────────┘
        ↓ Short press "M" once                                    Press M to reduce, press S to add
┌─────────────────────────────────┐                              ┌──────────────────────┐
│ RPM alarm interface,backlight on │──── Long press "M" 3S ────▶  │  RPM alarm value     │
└─────────────────────────────────┘                              │     setting          │
        ↓ Short press "M" once                                    └──────────────────────┘
┌─────────────────────────────────┐                              Press M to reduce, press S to add
│  MAX RPM interface,backlight on  │
└─────────────────────────────────┘
        ↓ Short press "M" once
┌─────────────────────────────────┐                              ┌──────────────────────┐
│ Stroke mode interface,backlight on│──── Long press "M" 3S ───▶  │  Stroke mode setting │
└─────────────────────────────────┘                              └──────────────────────┘
        ↓ Short press "M" once                                    Press M or S to choose
┌─────────────────────────────────┐                              ┌──────────────────────┐
│ Refresh rate interface,backlight on│─── Long press "M" 3S ───▶  │  Refresh rate setting│
└─────────────────────────────────┘                              └──────────────────────┘
        ↓ Short press "M" once                                    Press M or S to choose 1.0/0.5s
┌─────────────────────────────────┐                              ┌──────────────────────┐
│ Backlight set interface,backlight on│── Long press "M" 3S ───▶  │   Backlight setting  │
└─────────────────────────────────┘                              └──────────────────────┘
        ↓ Short press "M" once                                    Press M or S to choose 0/2/4/6s
┌─────────────────────────────────┐
│ Return to TOT interface,backlight on│
└─────────────────────────────────┘
```

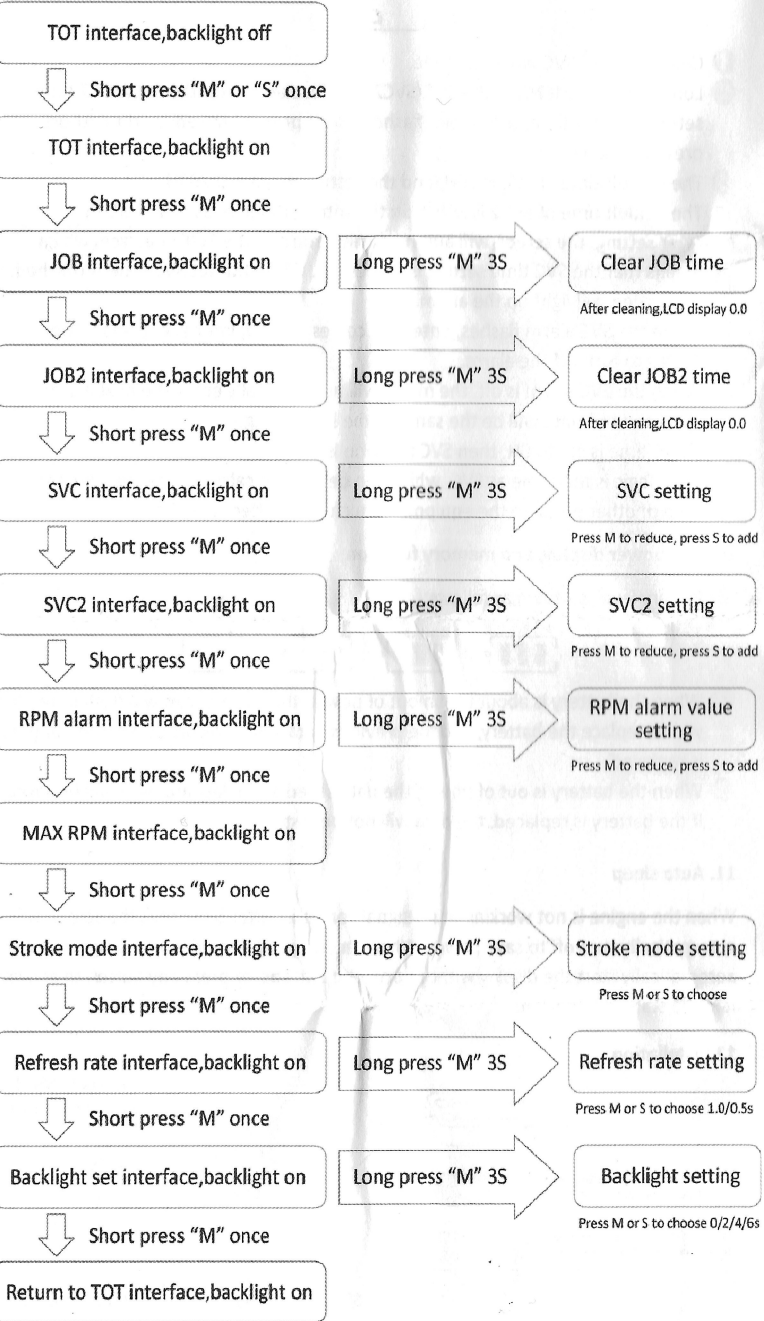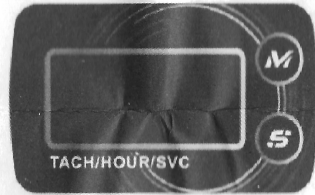
Please read and understand following notice carefully, and correctly install and operate the meter before using.

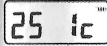# TACH/HOUR METER

TACH/HOUR/SVC

Working principle :

When the spark plug ignition signal is detected, the timing starts ,and stops when the signal disappears. The engine RPM can be calculated by detecting the ignition times of spark plug per minute, and the stroke of spark plug is optional.

Notice:

1. Fierce vibration and strong impact may make the product failure.
2. Please do not try to disassemble the meter.
3. It cannot be used underwater.
4. As this meter has backlight ,power consumption will be large.When the battery is low ,please replace the battery ASAP.

Product instructions:

1. Stroke mode setting

The stroke mode can be set to: `25  1c`

Engine mode	Engine type	Engine mode	Engine type
2S 1C	2 stroke 1 cylinder	4S 3C	4 stroke 3 cylinder
2S 2C	2 stroke 2 cylinder	4S 4C	4 stroke 4 cylinder
2S 3C	2 stroke 3 cylinder	4S 5C	4 stroke 5 cylinder
2S 6C	2 stroke 6 cylinder	4S 6C	4 stroke 6 cylinder
4S 1C	4 stroke 1 cylinder	4S 8C	4 stroke 8 cylinder
4S 2C	4 stroke 2 cylinder	4S 12C	4 stroke 12 cylinder

Note: The default stroke is set as "2S1C". In rare cases, some 4 stroke 1 cylinder engine is "2S1C",Please try this engine mode when "4S1C" RPM is too low.

2. Refresh rate Setting

`1.0`
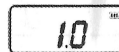
1. Refresh rate set: 1.0 (refresh data every 1 s)   0.5 (refresh data every 0.5 s)
2. The default refresh rate is 1.0 s.

3. RPM display

```
RPM
12345
```

① When the engine is running, the RPM shown on the meter is the current RPM of the engine.
② When the engine shut down, the LCD automatically enters TOT interface from RPM to show the total working time.

4. MAX RPM

```
MAXRPM
12345
```

① The MAX RPM displayed on the meter is the MAX RPM during the current engine operation.
② Restart the engine and this time, the MAX RPM will replace the previous MAX RPM which is not the historical maximum RPM.

5. RPM alarm setting

```
RPM
7500
```

① The default value for RPM alerts is 7500, which can be increased or decreased by pressing M or S.
② When the current RPM is greater than the set RPM alarm value, the RPM alarm icon flashes at the same time with the current RPM value, and the red alarm flashes.

6. Total hours TOT display

```
TOT
0.0
```
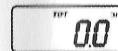
When the engine shut down, the LCD interface will be TOT interface, showing the total working time. The value cannot be zeroed even if the battery is replaced.

7. Backlight display mode and duration time

```
LIt-6
```
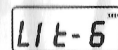
The default backlight duration time is 4 seconds. The backlight duration can be set to LIT-0 seconds, 4 seconds, 6 seconds, 8 seconds. When set to 0 seconds, the green back light will turn off. When other alarms are triggered, the red backlight will still light up.

8. JOB/JOB2 Timer display

```
JOB
0.0
```
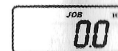
Long press MENU at the JOB/JOB2 interface, the JOB/JOB2 time will be cleared.
It is divided into JOB and JOB2, which can be used for two kinds of jobs at the same time. Unlike the SVC countdown, JOB is the positive timing.

9. SVC/SVC2 service time display and Setting.

```
SVC
200
```
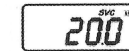
① Countdown of SVC working mode.
② Long press the MENU at the SVC/SVC2 interface and enter the SVC/SVC2 time setting . At this time, the screen flashes. Short press M to reduce time, short press S to add time.
③ The default time of SVC is 20H, and the setting range is 0-200H
The default time of SVC2 is 50H, adn the setting range of SVC2 is 0-500H.
After setting, the screen will automatically return to the TOT interface, which means that the SVC time setting is successful. When the set SVC time is reached, the screen will light up the alarm.
④ When the SVC alarm flashes, Enter the corresponding interface ,press SET or MENU to turn off the alarm.
⑤ When the SVC alarm is off, the meter will automatically enter the next alarm cycle and the time will be the same as the last setting.
⑥ If SVC time is set to 0H, then SVC function is off.
⑦ SVC2 logic is the same as SVC, which can be used to calculate the maintenance time of other parts on the equipment, such as air filter element.

10. Low power display, and memory function

① Battery level is shown as follows:

② When the battery is about to run out of power, the battery icon will flash to remind you to replace the battery, and the previous data will be recorded after the battery is replaced.
③ When the battery is out of power, the data saved at the last moment will be saved. If the battery is replaced, the data will not be lost.

11. Auto sleep

When the engine is not working or no signal comes in, after 5 minutes the screen will automatically turn off to save power. When receiving the engine working signal, it will automatically start the display without pressing buttons, or press any button to activate it in the state of no signal.

12. Installation

INSTALL SENSOR:
Wrap spark plug wire

Velcro wool face attached to the back of the meter

Velcro stick thorn face attached to the surface of the substance

COIL

SPARK PLUG BOOT   SPARK PLUG WIRE