





Thank you for purchasing KOSO tachometer, before operating the unit, please read the instruction thoroughly and retain it for the future

#### **∧** Notice

- 1.The lod meter is apply for DC 12V.
- 2.For installation, please follow the steps described in manual. Any damage caused by wrong installation shall be imputed to the users. 3.To avoid the short circuit, please don't pull the wire when installing. Don't break or modify the wire terminal. 4.Do not disassemble or change any parts excluding the manual description.

- The interior examination or mainténance should be executed by our professionals.

#### MARK MEANING:

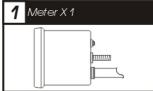
NOTE	You could ge	et the installation	details from t	he information be	hind the mark.

↑ Some processes must be followed to avoid the affection caused by wrong installation.

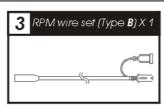
**MUARNING!** Some processes must be followed to avoid damages to yourself or the public

A CAUTION! Some processes must be followed to avoid the damage to the vehicle.

#### 1-1 Accessory























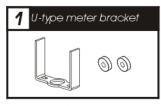






NOTE Please contact the local distributor if the items you open are not the same, with the above-listed one.

#### **1-2** Option accessory

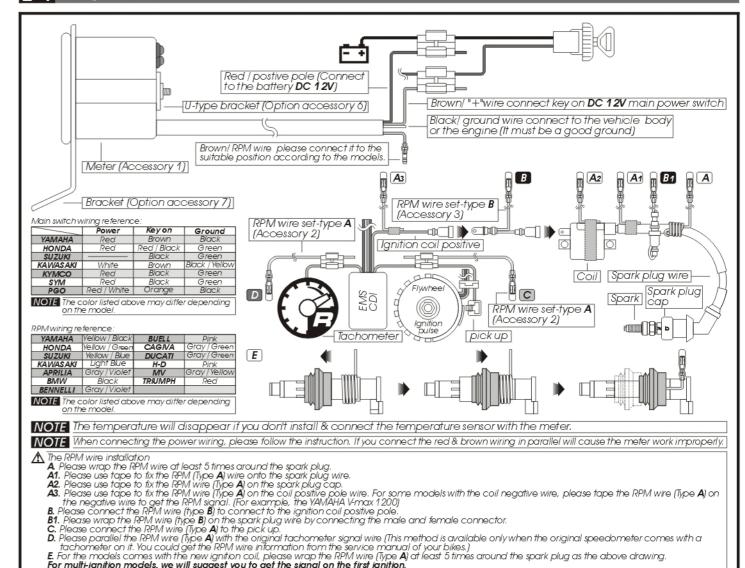






**NOTE** Some of the option accessories may not sell. For the details, please contact the local distributor.

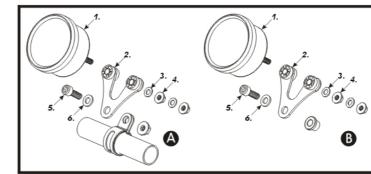
### 2-1 Wiring installation instructions



For multi-ignition models, we will suggest you to get the signal on the first ignition.

The best signal source will be in order as D>C>B>A, we will suggest you to check different ways if you have problems to get the RPM signal.

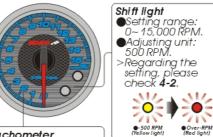
# 2-2 Installation instructions



## When installing, please follow the process.

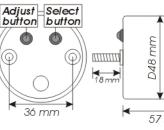
- 1. Lcd meter (Accessory 1)
- 2. Meter bracket (Accessory 5)
- 3. M5 washer X 2 (Accessory 11)
- 4. M5 X P0.8 nut X 2 (Accessory 9)
- 5. M6 X P1.0 screw (Accessory 10)
- 6. M6 washer (Accessory 12)
- ⚠ Use the meter bracket (Accessory 5), handle bar clamp (Accessory 6), rubber (Accessory 7) and the nut to install the speedometer on the handle bar
- Use the aluminum bush(Accessory 13) to install the speedometer on the handle bar stem.

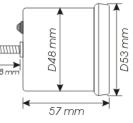
# 3-1 Basic function instruction











#### Tachometer

- Display range: 0~15,000 RPM.
- Display unit: 100 RPM.

wh481ba056

## 3-2 Function, setting instruction

■Tachometer Display range: 0~15,000 RPM Display unit: 100 RPM Over RPM shift light Setting range: 0~15,000 RPM Setting unit: 500 RPM

○Top RPM record Top RPM record Range: 0~15,000 RPM (Reset by button) Stroke / piston setting 2 Stroke: 1, 2 pistons 4 Stroke: 1, 2, 3, 4 pistons

●Effective voltage DC12V

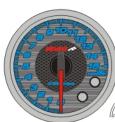
●Effective temperature range -10~+60°C

■Meter standard JIS D 0203 ■Meter size D48 X 52.8 mm

■Meter weight Around 117 g

**NOTE** Design and specification are subject to change without notice!

## 4-1 Shift light setting



In main screen, press down the **Select & Adjust X 3 seconds** to enter the shift light sefting screen.



Press the Adjust button to choose the setting

EX. Now the shift light setting is 6000 RPM.  $\Delta$  Now the yellow light is on, and the red light keeps flashing.

NOTE The over RPM warning setting range: 0~15,000 RPM. Adjust unit: 500 RPM.





Press the **Select button** 3 times, to back the main screen. EX. Now the shift light setting is changed from 6,000 RPM to 9,000 RPM.

# 4-2 Cycle / Piston / Input signal setting

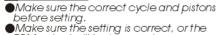


In main screen, press down the **Select & Adjust X 3 seconds** to enter the shift light sefting screen.



Press the Select button one time to enter the cycle, pistons setting.

#### A CAUTION!



Notes and the engine with the ignition system ignites every 360 degree as 2-cycle and the engine with the ignition system. ignites every 720 degree as 4-cyćle.

 Most of the 4-cycle bikes with one single piston are igniting every 360 degree once, so the setting should be the same as the bike with 2-cycle and one piston engine.



Press the Select button to enter the RPM impulse setting. EX. Now the Cycle, Pistons setting is changed from 2 to 4 (4 Cycle / 4 Pistons)





Press the Adjust button to select the RPM impulse.

Now the yellow & red light keep flashing simultanéously.

NOTE The impulse setting range is between 1 (the positive impulse)& 0 (the negative impulse)

NOTE
If the tachometer can't detect the signal (No RPM is displayed on the screen), you could choose another setting, and check it again.





Press the **Adjust button** to select the Cycle and pistons number you want to set.

EX. Now the setting is 2 it means 2 Cycle/1
piston or 4 Cycle/2 pistons.

 $\bigwedge$  Now the red light is on, and the yellow `light keeps flashing.



TE	Cycle Piston	1	2	3	4
	2	Scale 2	Scale 4		
	4	Scale 1	Scale 2	Scale 3	Scale 4
1					

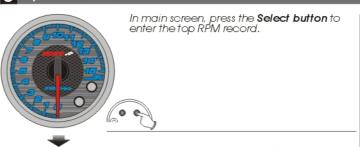


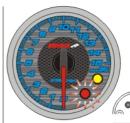


Press **Select button**, to back the main screen. EX. The impulse setting is changed from 0 to 1.



## 5 Top RPM record reset





Press the **Select button** to back to the main EX. Now the top RPM record is reset.

Press down the **Select button** for 3 seconds to reset the record.

EX. The top RPM record is 10,000 RPM.

Now the red light is on.

NOTE The top RPM record range: 0~ 15,000 RPM.

## 6 Trouble shooting

The following situation do not indicate malfunction of the meter. Please check the following before taking it in for repair,

The following stitution to the trial care matter than the following before taking it that repair.								
Trouble	Checkitem	Trouble	Checkitem					
The meter doesn't work when the power is on.	●The power doesn't supply to the meter.  → Please make sure the wiring is connected. The wiring and fuse are not broken.  → The battery is broken or the battery is too	appear or appear incorrectly.	<ul> <li>Please check the RPM sensor wiring is connected correctly.</li> <li>Please check your setting.</li> <li>→ Please refer to the manual 4-1.</li> <li>The power wiring connection is wrong</li> </ul>					
The meter shows wrong information.	old to supply enough power (DC 6V) to make the meter work.  Please check the voltage of your battery, and make sure the voltage is over DC 6V.	the top RPM record doesn't work	→ Please check the power wires connection is correct or not.  ● The voltage of your battery is too low → Please make sure that the voltage is over DC 6V.					

If still can't solve the problems according to the steps above, please contact with distributors or us.