

tachometer



Thank you for purchasing KOSO DL Tachomter, before operating the unit, please read the instruction thoroughly and retain it for the future reference.

⚠ Notice

- 1. The lcd 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.
- 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 maintenance should be executed by our professionals.

SYMBOL NOTE:

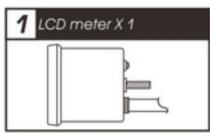
NOTE You could get the installation details from the information behind the mark.

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

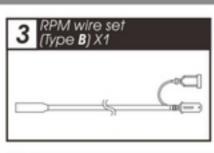
A WARNING! Some processes must be followed to avoid damages to yourself or the public

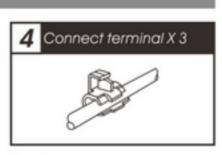
CAUTION! Some processes must be followed to avoid the damage to the vehicle.

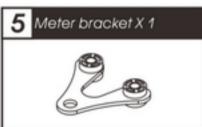
1-1 Accessory











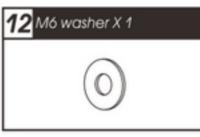








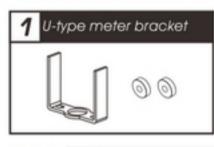






NOTE Please contact the local distributor if the items you open are not the same, with the above-listed one.

1-2 Option accessory

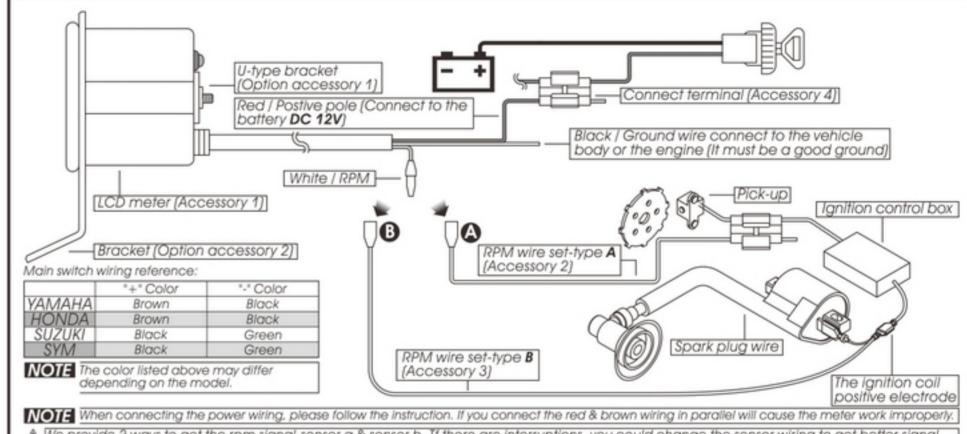






NOTE Some of the option accessories may not sell. For the details, please contact the local distributor.

2-1 Wiring installation instructions

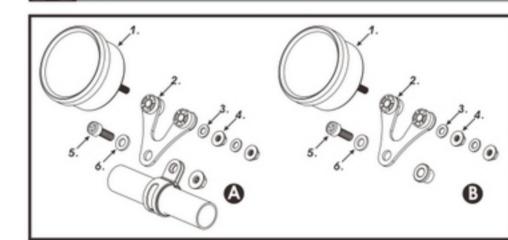


↑ We provide 2 ways to get the rpm signal-sensor a & sensor b. If there are interruptions, you could change the sensor wiring to get better signal.

CAUTION! For the model with more than one piston, please just connect the rpm sensor wiring (Type A/B) to one of the ignition coil

*Please make sure that the ignition coil positive electrode before connecting the RPM sensor wiring! Wrong installation will cause the meter broken!

2-2 Installation instructions



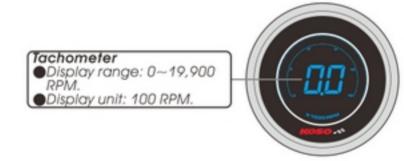
When installing, please follow the process.

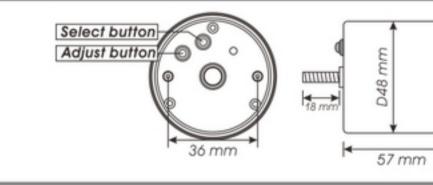
- 1.Lcd meter (Accessory 1) Meter bracket (Accessory 5)
- 3.M4washer X2(Accessory 11)
- 4.M4 X P0.7 nutX2(Accessory 9)
- 5.M6 X18L screw(Accessory8)
- 6.M6 washer (Accessory 12)

on the handle bar.

- ♦ Use the meter bracket (Accessory 5), handle bar clamp (Accessory 6), rubber (Accessory 7) and the nut to install the meter
- Use the aluminum bush(Accessory 13) to install the meter on the handle bar stem.

3-1 Basic function instruction





3-2 Function, setting instruction

•Tachometer	Display range:0~19,900 RPM	■Effective voltage	DC12V
	Display unit:100 RPM	Effective temperature range	-10~+60°C
oMAX RPM record	The record including, : 0~19,900 RPM	 Meter standard 	JIS D 0203 S2
Stroke / piston setting	2 Stroke: 1.2.3.4 pistons	 Meter size 	D48 X 52.8 mm
	4 Stroke: 1.2.3.4.5.6.8.10.12 pistons	 Meter weight 	Around117 g

NOTE Design and specification are subject to change without notice!

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4-1 The button function instruction

4-1 Adjust button function instruction (RPM, MAX RPM)



Press Adjust button once to switch function

Press Adjust button once to switch function

 Hold press Adjust button 3 seconds, the recordin MAX RPM will be clear.

from MAX RPM to RPM





 4-2 Adjust+Select button function instruction (Cycle · piston · HI/LOW · RPM)



 Hold press Adjust + Select button 3 seconds to enter cycle setting screen. (Check section 4-2 for detail)







4-2 Cycle / Piston / Input signal setting



- EX. To change the setting to 4 stroke.
- Press the Select button to select the stroke.
- EX. Now the setting is 2C (2 Stroke)

Now the stroke number is flashing!

NOTE You could set the stroke as 2 stroke or 4 stroke.

A CAUTION!

- Make sure the correct cycle and pistons before setting.
- Make sure the setting is correct, or the RPM output will be incorrect.
- ■We define 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-cycle.

 •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.



- EX. Now the setting is changed from 2 stroke to 4 stroke.
- Press the Adjust button enter the piston setting screen.



- EX. To change the setting to 4 piston.
- Press the Select button to enter the piston setting screen.
- EX. Now the setting is 1P (1 piston)

♠ Now the piston number is flashing.

NOTE 2 Cycle: 1,2,3,4 pistons 4 Cycle: 1,2,3,4,5,6,8,10,12 pistons



- EX. The piston setting is changed from 1 P (piston) to 4 P (pistons).
- Press the Adjust button, to enter the RPM signal input setting.

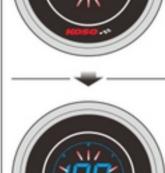


- EX. To change the setting to Lo (the negative impulse)
 - Press the Select button to choose the input signal you want to set.
 - EX. Now the setting is Hi (the positive impulse)
 - Now the input signal setting is flashing!

- NOTE The impulse setting range is between Hi (the positive impulse)& Lo (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 enter the RPM setting screen.



- EX. To change the setting to 15,000 RPM.
- Press the Select button to enter the RPM setting screen.
- EX. Now the setting is 10.0 RPM. Now the RPM number is flashing!

NOTE RPM range setting 10000RPM,15000RPM,20000 RPM



- EX. The RPM setting is changed from 10,000RPM to 15,000.
- Press Adjust button, to back the main screen.



Now it return to the main screen.

5-1 Trouble shooting

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

Trouble	Check item	Trouble	Check item
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.		 Please check the RPM sensor wiring is connected correctly. Please check your setting. →Please refer to the manual 4-2.
The meter shows wrong information.	→The battery is broken or the battery is too 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 setting is not fixed, the top RPM record doesn't work	 The power wiring connection is wrong →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.

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