

INSTRUCTION



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

∧ Notice

- 1. The 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.

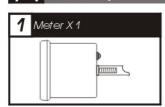
Passive speed sensor X 1

- 4.Do not disassemble or change any parts excluding the manual description.
- 5. The interior examination or maintenance should be executed by our professionals.

MARK MEANING:

NOTE You could get the installation details from the information behind the mark.	[5	8
igwedge 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.	PRESS THE BUTTON ONE TIME	PRESS THE BUTTON 3
A CAUTION! Some processes must be followed to avoid the damage to the vehicle.	1	SECONDS

1-1 Accessory



9 Meter bracket X1

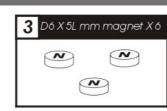
13 M5 X P 0.8 nut X 2

17 Aluminum bush X 1





















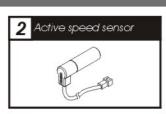


NOTE Please contact the local distributor if the items you open are not the same, with the above-listed one.

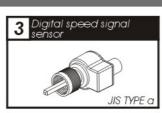
1-2 Option accessory

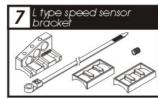


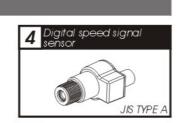






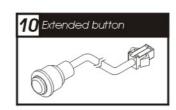








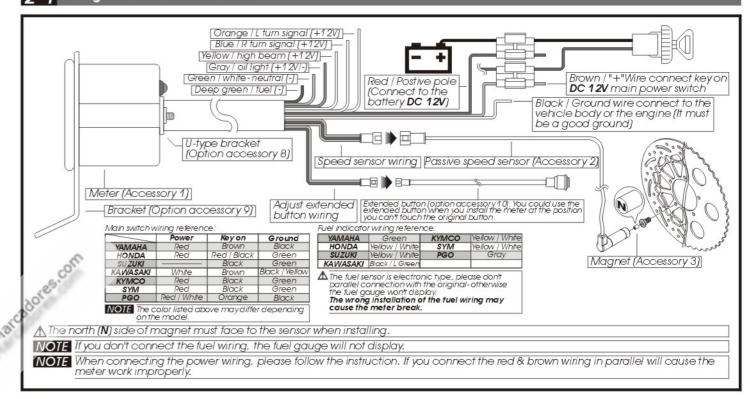




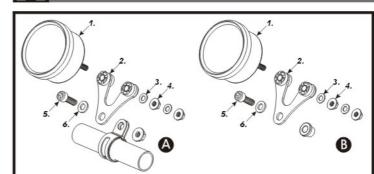
NOTE
The advantage of the active speed sensor is as following, 1. You don't need to install the magnet in the opposite position of the speed sensor. 2. You could set up the sensor signal input up to 60 points, and the speed displayed will be more accurate. Please note that the speed sensor attached in the kit is passive speed sensor, and the maximum speed signal it could read is 6 points.

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

2-1 Wiring installation instructions



2-2 Installation instructions



When installing, please follow the process.

- 1. Lcd meter (Accessory 1)
- 2. Meter bracket (Accessory 9)
- 3. M5 washer X 2 (Accessory 15)
- 4. M5 X P0.8 nut X 2 (Accessory 13)
- 5. M6 X P1.0 screw (Accessory 14)
- 6. M6 washer (Accessory 16)
- (Accessory 9), handle bar clamp (Accessory 10), rubber (Accessory 11) and the nut to install the speedometer on the handle bar.
- Use the aluminum bush(Accessory 17) to install the speedometer on the handle bar stem.

2-3 Installation instructions









Adjust the sensor bracket position to make sure that the sensor could face the magnet to prevent bad

speed signal or no signal!



Install the speed sensor on the bracket.



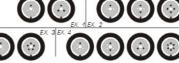
Adjust the distance bétween sensor and magnet. We suggest you to make sure the distance is under 8 mm for catching good speed



bracket



After finishing the magnet installation and sensor point setting, please move your tire to test the speedometer work or not.







3-1A.B Overview

Odo meter

●Display range: 0~ 99999 km', réset automatically after 90000 km

Display unit: 1 km.

Trip meter

 Display range: 0~ 999.9
 km , reset automatically after 999.9 km

Display unit: 0.1 km

Fuel symbol

Display range: 6 grids.The fuel reserve symbol will begin to flash if only one arid left.



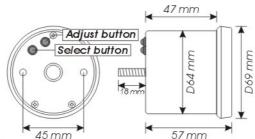
Speedometer (160 km/h)
Display range:
0~160 km/h.

Display unit: km.



Speedometer (260 km/h) Display range 0~ 260 km/h.

Displayunit: km



160.260 km/h

Adjust button

•In the main screen, to press the Adjust button to switch between adometer and frip meter.

In the trip meter screen, to press down the Adjust button for 3 seconds to reset the trip

3-1C,D Overview

Odo meter

●Display range: 0~99999 km. réset automatically after 99999 km. Display unit: 1 km.

Trip meter ●Display range: 0~999.9 km, réset automatically

after 000 0 km Display unit: 0.1 km.

Fuel symbol

Display range: 6 grids.The fuel reserve symbol will begin to flash if only one grid left.



Speedometer (160 km/h)
Display range:

0~ 160 km/h

Display unit: km.



Speedometer (260 km/h)

Display range: 0~ 260 km/h. Displayunit: km.

47 mm Adjust button Select button 45 mm 57 mm

High-contrast 160.260 km/h

Adjust button

•In the main screen, to press the Adjust button to switch between adometer and trip meter.

In the trip meter screen, to press down the

Adjust button for 3 seconds to reset the trip

3-2 Specification

Tire circumference setting Setting range: 300~ 2,500 mm

Setting unit: 1 mm · Sensor point: 1~60

●Fuel gauge Display in 6 grids (Around 16% for each grid)

OFuel resistance setting

100 Ω · 510 Ω

●Effective temperature range -10~ +60°C ■Meter standard

JIS D 0203 S2

D64 X 57 mm

■Meter weight Around 190 g

■Effective voltage DC12V

NOTE Design and specification are subject to change without notice!

NOTE If you enter the setting screen for 30 seconds and don't press the button, it will back to the main screen automatically

4-1 Tire circumference and sensor point setting



In main screen, press down the Select & Adjust X 3 seconds to enter the Tire circumference and sensor point setting

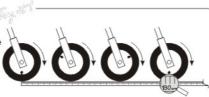
A CAUTION!

Please measure the tire circumference (the tire you will install the sensor on) and make súre the number of magnet sensor point (You could install the magnet into the disc screw or the sprocket screw.)

he speed displayed on the meter will be affected by the sétting, please make sure the setting number is correct before you make the setting.



You could define the valve as the starting point and the terminal point to measure the wheel circumference with a measuring tape.



Press the Adjust button to change the setting. Now the 0 is flashing!



EX. The tire circumference is 1,300 mm. Press the **Select button** to move to the digit you want to set

EX. Now the original setting is 1,000 mm.

Now the 1 is flashing!

NOTE The tire circumference setting range 300~ 2,500 mm, and the digit you set is from left to right in order.



Press the **Select button** for three times to enter the sensor point setting. EX. The tire circumference setting is changed from 1,000 mm to 1,300 mm.



The active speed sensor could be installed besides the mental parts such as the disc screws, the brake disc to detect the gap of the disc, the gear plate to detect the frequency of the teeth on the gear. We will suggest you to use the method of detecting the disc screw for speed signal. The more the signals are, the better the speed accuracy is. Please note that the max signal the active speed sensor could read is 60 points per turn. The LED on the active speed sensor will light up once the signal is detected.

ou want to set

Now the 0 is flashing!

Press the Adjust button to choose the setting

Now the sensor point setting number is



Press **Select button** 2 times, to back the main

EX. the sensor point setting is changed from 1

Press the Adjust button to choose the

∧ Now the resistance setting number is

NOTE The fuel gauge resistance setting range: 100 \(\Omega\$, 510 \(\Omega\$.

flashing!

setting number. EX. Now the fuel gauge resistance setting is

4-2 The fuel gauge resistance setting



In main screen, press down the Select & Adjust X 3 seconds to enter the Tire

EX. The sensor point you want to set is 6.

EX. Now the original setting is 1 point.

Press the **Select button** to move to the digit

NOTE The sensor point setting range: 1~60

NOTE Only when you use the active speed

sensor, then you could make the sensor point setting over 6 points.

points. You could change the setting from left to right.

Press the Select button 3 times to enter the fuel gauge resistance setting screen.



Press Select button 1 times, to back the main

fuel gauge will not display.

If you don't install the fuel wiring, the

EX. Now the fuel resistance setting is changed

from 100 Ω to 510 Ω .



Usually the fuel gauge resistance is 100 Ω on YAMAHA system, and 510 Ω on HONDA system.

5 Trouble shooting

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

nformation.

The meter doesn't work when the power is on.

Speed does not appear

or appear incorrectly.

●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

old to supply enough power (DC 12V) to

make the meter work The meter shows wrong Please check the voltage of your battery, and make sure the voltage is over DC 12V.

> Please make sure the speed sensor is connected correctly. Please check the tire-size setting.

→ please refer to the manual 4-1.

Fuel gauge does not appear or appear

meter is not

accumulated or

incorrectly.

The odometer and trip

When switch off, the needle doesn't return

accumulated wrong

Please check your fuel tank. → Is there any fuel inside?

◆Please check the wiring.
→Do you connect the wiring correctly?

Please check the setting.

→ Please refer to the manual 4-2.

It is possible that the positive wire is connected wrongly.' →Please check is the red positive wire

connect to the permanent power or battery and the brown positive wire is connected to the key on switch positive pole.

It is possible that the permanent power wire is not connected well. →Please check the red positive wire is

connect well or not.

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

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