





Thank you for purchasing "KOSO XR-SR N DIGITAL LCD meter". Before installing, please check the instruction carefully.

∧ 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.
- 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.
- 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 man

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

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

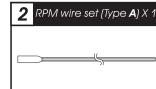
A CAUTION! Some processes must be followed to avoid the damage to the vehicle.

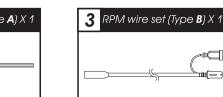
PRESS THE ITTON ONE TIME

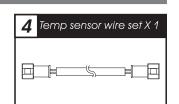


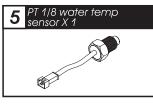
1-1 Accessory



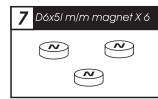




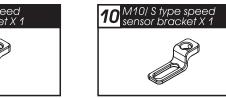




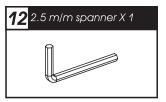


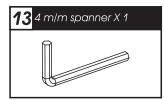


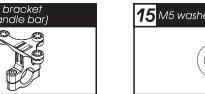










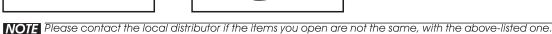








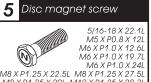




1-2 Option accessory

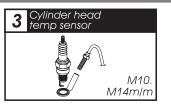


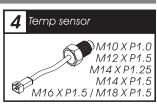
M14 X P1.5 X 1 M16 X P1 5 X M20 X P1.0 X 15 M20 X P1.5 X 15





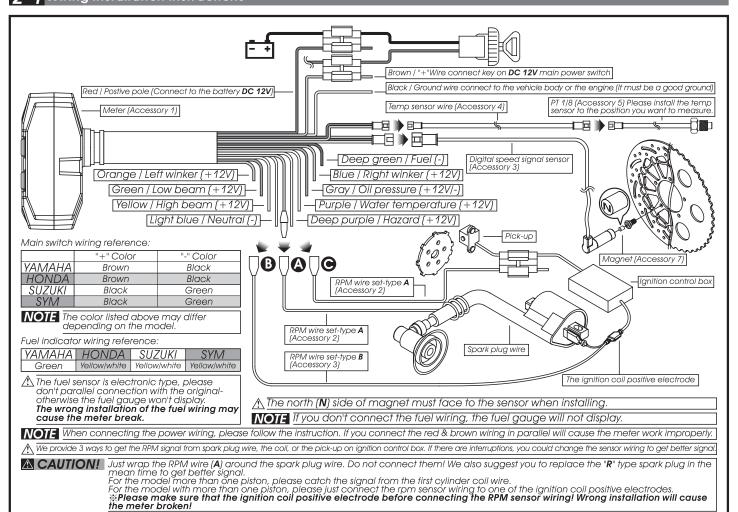






NOTE Some of the option accessories may not sell. For the details, please contact the local distributor

2-1 Wiring installation instructions



2-2 Installation instructions







Install the s type sensor

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 between sensor and magnet. We suggest you to make sure the distance is under 8m/m for catching good speed



bracket

You could make the speed more precise by adding the magnets, when installing the magnet, please put the magnet with N-mark side face the outside and put them averagely to avoid wrong signal. EX. 1: If your disk has 3 screws, you could install 1 or 3 magnets to catch the speed.

EX. 2: If your disk has 4 screws, you could install 1 \ 2 or 4 magnets to catch the speed. EX. 3: If your disk has 5 screws, you could install 1 or 5 magnets to catch the speed.

EX. 4: If your disk has 6 screws, you could install $1 \times 2 \times 3$ or 6 magnets to catch the speed.

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

3-1 Basic function instruction

●Display range: 0~999.9 km

(mile), reset automatically

after 999.9 km. Display unit: 0.1 km (mile).



Tachometer

●Display range: 0~18000 RPM. Display unit: 100 RPM.

•Display range: 0~360 km/h (0~223 MPH) Display unit: km/h or MPH.

wh017bb000-1

3-2 Function, setting instruction

	Speed unit	km/h / MPH alternative
	Speedometer range	$0 \sim 360 \text{km/h} (0 \sim 223 \text{ MPH})$
	ODisplay internal	< 0.5 second
	○Odometer	0~99999 km (mile)
	○Trip A.B	0~999.9 km (mile)
	○Top speed record	$0 \sim 360 \text{ km/h} (0 \sim 223 \text{ MPH})$
	OTire circumference setting	1000~2500 m/m · Adjust unit: 1 m/m
		Sensor point: 1~6
	●Tachometer range	0~18000 RPM · Display unit: 100 RPM
	ODisplay internal	< 0.5 second
	○MAX RPM record	0~15000 RPM
	OStroke / piston setting	2 Stroke: 1, 2, 3, 4 pistons
		4 Stroke: 1, 2, 3, 4, 5, 6, 8, 10, 12 pistons
	●Temperature unit	°C \ °F
	●Digital water	0~120°C (32~248°F) ⋅
	temperature range	Display unit: 0.1°C (0.1°F)
	●Temperature level	20~120°C (68~248°F), display in 10 level
Ç	rauge display range	Display unit: 1 level= 10° C (50° F)
	gauge display range ODisplay internal	< 0.5 second
	○Top temperature record	0~120°C (32~248°F)
	●Fuel gauge	Display in 10 levels (one level means 10% fuel)
	○Fuel resistance setting	100 Ω · 510 Ω
	● Clock	24 H

The record including, ●Top speed timer

> Speed: $0 \sim 360 \text{ km/h} (0 \sim 223 \text{ MPH})$. Distance: $0 \sim 999 \text{ m} (0 \sim 3280 \text{ feet})$.

Timer: 0~9'59"99 second.

■Effective voltage DC 12V

■Effective temperature range -10~+60°C

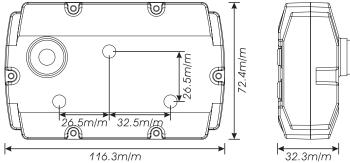
Meter standard JIS D 0203

Meter size 116.3 X 72.4 X 32.3 m/m

Meter weight Around 286 g

Indicator light Neutral (green light /-), High beam (blue light /+) Low beam (green light / +), Winker (green light / +)

> Hazard (Red light / +), Oil pressure (Red light / -) Water temperature light (Red light / +)



NOTE Design and specification are subject to change without notice!

3-3 The button function instruction

- In main screen, press the **Select button** to choose the display of clock, water temperature or oil temperature.

 2. In setting screen, press the **Select to choose** the function you want to set.
- SELECT BUTTON X 3 SECONDS

 1.In main screen, press down the Select button for 3 seconds to enter the power
- test screen 2. In power test screen, press down the Select button for 3 seconds to back to the
- 3.In setting screen, press down the Select button for 3 seconds to back to the
- ADJUST BUTTON

1.In main screen, press the **Adjust button** to choose the display of odometer,

trip A, trip B or the MAX records

- 2.In power test screen, press the Adjust button to reset the record, stop the testing, or restart the test.3.In setting screen, press the Adjust to make the number setting. If you keep
- down the **Adjust** the setting number will increase fas ADJUST BUTTON X 3 SECONDS
- main screen, press down the **Adjust button** for 3 seconds to reset the trip A, p.R. or the MAX record PRESS DOW THE ADJUST BUTTON

SELECT + ADJUST X 3 SECONDS In main screen, press down the **Select & Adjust buttons** at the same time for 3 seconds to enter the setting screen.

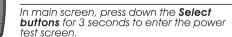
CAUTION! For safety reason - only when the vehicle is stop, then you could adjust the setting or operate the function.

3-4 The screen switch instruction



In the setting screen, press down the Select **button** for 3 seconds to back to the main screen.





seconds to enter the setting screen.





In any screen, you could press down the **Select buttons** for 3 seconds to back to the main scree

3-5 The main screen function switch instruction Select



In main screen, press the **Select button** and then the screen will change from water temperature gauge + fuel gauge to clock water temperature level gauge. EX. Now the water temperature gauge is 28.5°C, and the fuel level gauge is full.

NOTE If you don't install the fuel wiring, the fuel gauge will not display.



In main screen, press the **Select button** to switch the screen from clock + water temperature level gauge to water temperature gauge + fuel level gauge. EX. Now the time is 12:00, and the water temperature level gauge is displayed as 21

3-6 The main screen function switch instruction Adjust



In main screen, press the Adjust button to choose the function combination you want to display on the screen.

The alternative combination is as the circle we list: odometer > trip A > trip B > RPM >MAX record.









3-7 The setting screen instruction



In main screen, press down the **Select** & **Adjust button** at the same time for 3 seconds to enter the setting screen.



In setting screen, press the **Select button** to choose the function you want to set. The function in setting screen is in order as **speed unit**, cycle and piston. temperature unit, tire circumference and sensor point, time, fuel gauge, top speed test setting and you could finish the setting as the order.

After finishing the setting, press down the **Select button** to leave the setting screen.











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 Speed unit setting



In main screen, press down the **Select** & **Adjust button** at the same time for 3 seconds to enter the speed unit setting.



Press the **Select button** to continue the function setting.

NOTE When you leave this screen, the setting is finished.

you just want to make this function setting, you ould press the **Select button** for 3 seconds to



Press the **Adjust button** to choose the speed unit.

ÉX. Now the setting is km/h Now the speed unit is flashing

NOTE You could choose km/h or MPH in the speed unit setting screen.

The odometer & trip meter will change together with the speed unit.

4-2 Cycle / Piston / Input signal setting



In main screen, press down the **Select** & **Adjust button** at the same time for 3 seconds to enter the speed unit setting.



Press the **Select button** to enter the piston setting screen

EX. Now the setting is changed from 2 Cycle

Press the **Adjust button** to select the piston

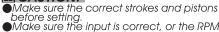
NOTE 2 Cycle: 1,2,3,4 pistons 4 Cycle: 1,2,3,4,5,6,8,10,12 pistons

Now the piston number is flashing



Press the **Select button** 1 times to enter the stroke/ piston

⚠ CAUTION!



oviake sure the input is correct, or the RPI output will be incorrect.

We define the engine with the ignition system ignites every 360 degree as 2-stroke and the engine with the ignition system ignites every 720 degree as 4-stroke.

Some 4-stroke billion with

 Some 4-stroke bikes with one single piston are igniting EVERY 360 degree once, so the setting should be the same as the bike with 2-stroke and one piston engine.



Press the **Select button** to enter the signal input setting.

EX. The piston setting is changed from 1 P (piston) to 4 P (pistons).



Press the **Adjust button** to select the stroke EX. Now the stroke number is flashing. Now the stroke setting number is

flashing!

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





sianal you want to set. <u> Now the input signal setting is flashing!</u>

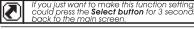
NOTE The input signal setting range is between Hi (the positive signal) & Lo (the negative signal)

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



EX. The input signal is changed from Lo to Hi.







4-3 The temperature unit setting



In main screen, press down the **Select** & Adjust button at the same time for 3 seconds to enter the speed unit setting



Press the **Adjust button** to choose °C or °F. EX. Now the temperature unit is °C.

NOTE The temperature unit setting range

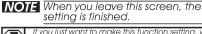


Press the **Select button** 4 times to enter the temperature unit setting screen.



Press the **Select button** to continue the function setting

EX. Now the temperature unit is changed



f you just want to make this function setting, you could press the **Select button** for 3 seconds to

4-4 Tire circumference and sensor point setting



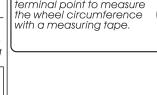
main screen, press down the **Select** & **Adjust button** at the same time for 3 seconds to enter the speed unit setting.



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

The speed displayed on the meter will be

affected by the setting, please make sure the setting number is correct before you make the setting.



You could define the valve as the starting point and the

Press the **Select button** to enter the sensor

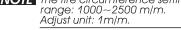
point setting. EX. The circumference setting is changed from 1000 m/m to 1300 m/m̃.

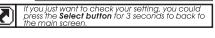


Press the **Adjust button** to choose the setting number

Now the tire circumference setting is 1000 m/m, and the sensor point is 1. \bigwedge Now the circumference setting number

NOTE The tire circumference setting







Press the **Adjust button** to choose the setting number.

 \bigwedge Now the sensor point setting number is flashing!

NOTE The sensor point setting range:

Press the **Select button** to continue the function setting EX. the sensor point setting is changed from

NOTE When you leave this screen, the setting is finished.



4-5 The clock setting



In main screen, press down the **Select** & Adjust button at the same time for 3 seconds to enter the speed unit setting



Press the **Select button** to enter the minute EX. Now the hour is changed from 0 to 13.



Press the **Select button** 7 times to enter the clock setting screen.



Press the **Adjust button** to choose the setting number.

Now the minute number is flashing!



Press the **Adjust button** to choose the setting number EX. Now the time is 0:00

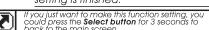
Now the hour number is flashing

NOTE This is a 24 H clock



Press the **Select button** to continue the function setting

the minute is changed from 0 to 1 **NOTE** When you leave this screen, the setting is finished.



4-6 The fuel gauge resistance setting



In main screen, press down the **Select** & Adjust button at the same time for 3 seconds to enter the speed unit setting

Press the **Select button** 9 times to enter the

fuel gauge resistance setting screen.



The timer is

automatic, so when

move the timer wi

automatically after

you stops the bike.

start to count the

time and stop

our bike start to

Press the **Adjust button** to choose the setting number

EX. Now the fuel gauge resistance setting is 100Ω .

Now the resistance setting number is flashina:

888888

888888

NOTE The fuel gauge resistance setting range: $100 \ \Omega$, $510 \ \Omega$. If you don't install the fuel wiring, the fuel gauge will not display.

180 km/h 179 km/h

888888

When the speed decreases,

the time

Press the **Select button** to continue the function setting EX. Now the fuel resistance setting is

changed from 100 Ω to 510 Ω . **NOTE** When you leave this screen, the

setting is finished.



5 Power The top speed test



IBL

△ WARNING!

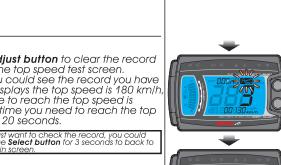
sually the fuel gauge resistance is 100 Ω on YAMAHA system, and 510 Ω on HONDA system

Please use this function at racetrack to avoid traffic accidents

In main screen, press down the **Select button** 3 seconds to enter the top speed

NOTE Please start the test when the bike stops.

 \triangle If you have the power test record, it will display the record first. You must clear the record before starting a new test.



Press the **Adjust button** to clear the record and enter the top speed test screen. EX. Now you could see the record you have before. It displays the top speed is 180 km/t the distance to reach the top speed is 510 m, the time you need to reach the top speed is 10.20 séconds.

lf you just want to check the record, you could oress the **Select button** for 3 seconds to back to

When the bike moves, the timer will start

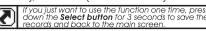
NOTE The top speed test range: Speed: 0~360 km/h (0~223 MPH). Distance: 0~999m (3280 feet).

<u>Timer: 0~9'59"99 seconds.</u>



When you reach the top speed (180 km/h), the meter will stop counting the distance (510 m), and time (10.20 seconds).

♠ During the test, the mwill keep flashing!



If you want to test it again, press the Adjust **button** to clear the record and enter the target speed timer test screen again.

6 Trouble shooting

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

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

or appear incorrectly.

automatically.

Now the es is flashing

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 information. Please check the voltage of your battery, and make sure the voltage is over D´C 12V.

Speed does not appear Please make sure the speed sensor is connected correctly

Please check the tire-size setting. →please refer to the manual 4-4.

Fuel aguae does not appear or appear incorrectly.

incorrectly.

Temp does not appear or appear incorrectly.

The clock is incorrect.

Tachometer does not

appear or appear

●Please check the RPM sensor wiring is connected correctly. Please check the spark plug is "R" type

or not. If not, please replace the spark plug with the "R" type spark plug. •Please check your setting.

→Please refer to the manual 4-2.

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 4-6.

Please check the sensor

→Does the wiring break or falling off?

Do you connect the wiring correctly. →Please check the positive wire(red) connects to the battery, and main switch positive wiring(brown) connects to the main switch.

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

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