

INSTRUCTION



Thank you for purchasing KOSO XR-SRN+ 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

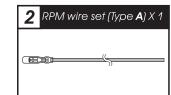
♠ Some processes must be followed to avoid the affection caused by wrong installation

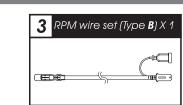


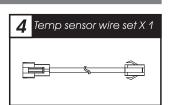
MARNING! Some processes must be followed to avoid damages to yourself or the public A CAUTION! Some processes must be followed to avoid the damage to the vehicle

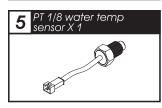
1-1 Accessory



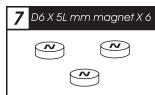


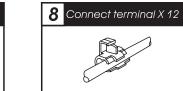


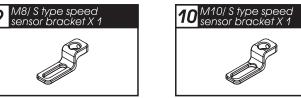




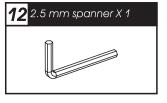


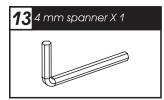


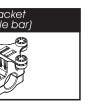
















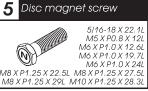


NOTE Please contact the local distributor if the items you open are not the same, with the above-listed one.

1-2 Option accessory

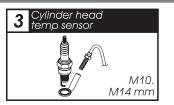


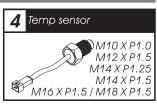
M14 X P1.25 X 1 M14 X P1.5 X 1 M20 X P1.0 X 15 M20 X P1.5 X 15





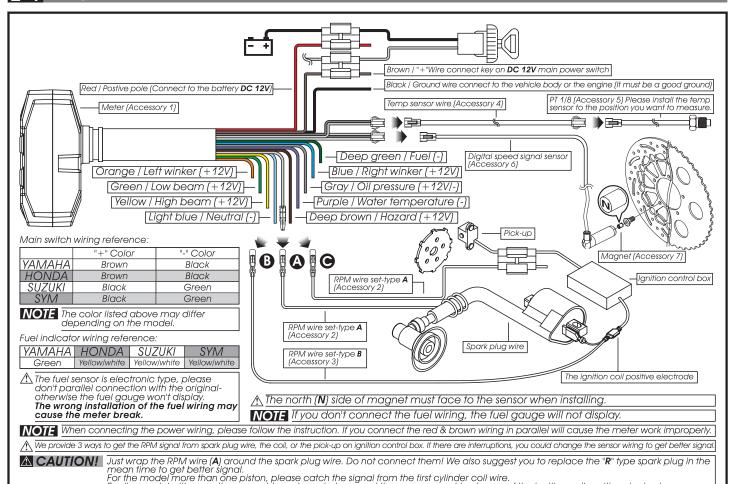






NOTE Some of the option accessories may not sell. For the details, please contact the local distributor.

2-1 Wiring installation instructions



2-2 Installation instructions







Install the s type sensor bracket



For the model with more than one piston, please just connect the rpm sensor wiring to one of the ignition coil positive electrodes.

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

Adjust the sensor bracket position to make sure that the sensor could face the magnet to prevent bad speed signal or no signal!

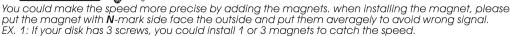


Install the speed sensor on the bracket.



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





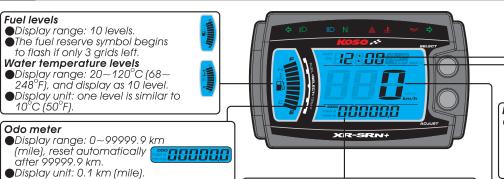
EX. 2: If your disk has 4 screws, you could install 1 \ 2 or 4 magnets to catch the speed.

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 $1 \cdot 2 \cdot 3$ 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



Thermometer

■Display range: 0~120°C (32~248°F) •Display unit: 0.1°C (°F).

●24H.

Volt meter ●Display range: DC 8~18 V

MAX record ●The meter will record the top

speed, RPM and temperature automatically.



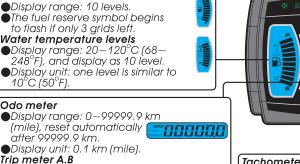
Speedometer

•Display range: $0\sim360 \text{ km/h}$ ($0\sim225 \text{ MPH}$) •Display unit: km/h (MPH).

●Display range: 0~999.9 km

(mile), reset automatically

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



Tachometer

●Display range: 0~18,000 RPM. Display unit: 100 RPM.

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3-2 Function, setting instruction

Speedometer	Display range: $0\sim360$ km/h ($0\sim225$ MPH)	(
	Display unit: km/h & MPH for alternative	
ODisplay internal	< 0.5 second	(
○Odometer	0~99999.9 km, reset automatically after 99999.9 km (mile)	(
○Trip A.B meter	0~999.9 km, reset automatically after 999.9 km (mile)	(
○Top speed record	Display range: $0\sim360$ km/h ($0\sim225$ MPH)	
OTire circumference	Setting range: 300~2,500 mm	(
	Setting unit: 1 mm \cdot Sensor point: 1~20	
■Tachometer	Display range: 0~18,000 RPM ; Display unit: 100 RPM	
ODisplay internal	< 0.5 second	
○MAX RPM record	Display range: 0~18,000 RPM	(
OThe RPM input signal num	nber setting Setting range: 0.5, 1~24.	(
○The RPM input pulse	Setting range: Hi (The positive wave pulse),	(
	Lo (The negative wave pulse)	(
■Temperature	Display unit: °C & °F for alternative	(
●Digital water	Display range: 0~120°C (32~248°F)	(
temperature	Display unit: 0.1°C (°F)	
■Water temperature levels	Display range: 20~110°C (68~230°F), 10 level	
	Display unit: 1 level= 10° C (50° F)	
○Top temperature record	Display range: 0~120°C (32~248°F)	

•Fuel levels Display range: 10 levels Setting range: 100 Ω , 250 Ω , 510 Ω , 1200 Ω , SW ○Fuel warning Setting range: 10~50%; Setting unit: 10% Clock volt meter Display range: DC 8~DC 18 V. Flashing warning when voltage lower than 11.5 V or higher than 15.5 V.

●Top speed timer The record including,

> Speed: $0 \sim 360 \text{ km/h} (0 \sim 225 \text{ MPH})$. Distance: 0~999 m (0~3280 feet). Timer: 0~9'59"99 seconds.

DC 12 V ●Effective voltage

●Effective temperature range -10~+60°C

JIS D 0203 D3 Meter standard 116.3 X 72.4 X 32.3 mm ●Meter size

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

Press the Select button

- 1.In main screen, press the **Select button** to choose the display of clock, volt, water temperature.
- Press the Adjust button
- 1.In main screen, press the **Adjust button** to choose the display of odometer, trip A trip B RPM or the MAX record
- 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 button to make the number setting.

Hold pressing the Adjust button

1.In setting screen, to add the setting value fast.

Hold pressing the Adjust button for 3 seconds

trip B, or the MAX record.

Hold pressing the Select button for 3 seconds

- 1.In main screen, hold pressing the Select button for 3 seconds to switch between the fuel levels screen and the water temperature levels screen.
- 2. In setting screen, press the Select button to choose the function you want to set. 2. In power test screen, hold pressing the Select button for 3 seconds to back to the main screen
 - 3.In setting screen, hold pressing the Select button for 3 seconds to back to the main screen.

Press the Select + Adjust button

1.In main screen .press the **Select + Adjust button** to enter the power test screen. Press the Select + Adjust button for 3 seconds

1.In main screen ,press the **Select + Adjust button for 3 seconds** to enter the

 $oldsymbol{3-5}$ Main function switch instruction (Select button)

1. In main screen, hold pressing the Adjust button for 3 seconds to reset the trip A, A CAUTION! For safety reason - only when the vehicle is stop, then you could adjust the setting or operate the function.

3-4 Main function switch instruction (Adjust button)



●In main screen (ODO), press the **Adjust button** one time to enter the Trip A screen.

●In clock screen, press the **Select button** one time to enter the voltage screen.



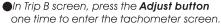
- ●In Trip A screen, press the **Adjust button** one time to enter the Trip B screen.
- Hold pressing the Adjust button for 3 seconds to reset the Trip A record.















●Hold pressing the Adjust button for 3





In tachometer screen, press the Adjust **button** one time to enter the Max. record screen



- ●In Max. Record screen, press the **Adjust button** one time to go back to the main screen (ODO).
- Hold pressing the Adjust button for 3 seconds to reset the Max. record.







In voltage screen, press the Select button one time to enter the water temperature screen.



In water temperature screen, press the **Select button** one time to go back to the clock screen.

3-6 Main function switch instruction (Select button x 3)



In main screen, hold pressing the Select button for 3 seconds to switch between the fuel levels screen and the water temperature levels screen.





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

3-7 Port The top speed test



In main screen, press the Select + Adjust **button** one time the enter the power test screen.

∆WARNING!

Please use this function at racetrack to avoid traffic accidents.

In main screen, press the **Select button** one time to enter the top speed test screen **NOTE** Please only start the test when the bike is completely stop.

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

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/h the distance to reach the top speed is 510 m, the time you need to reach the top speed is 10.20 séconds.



When the bike moves, the timer will start automatically

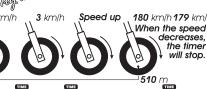
Now the est is flashing:

The top speed test range: Speed: 0~360 km/h (0~225 MPH). Distance: 0~999m (3280 feet) . Timer: 0~9'59"99 sèconds.

↑ The setting unit will change together with the speed unit setting (4-1).







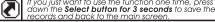
8888<u>88</u> 8888<u>88</u> 888888

♠ During the test, the will keep flashing!





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



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



3-8 Setting screen instruction

•In setting screen, press the Adjust button to choose the setting screen. The setting screen is in order as below: unit setting (speed, temperature), tire circumference and sensing point, PRM input pulse, fuel gauge, clock, backlight brightness, internal odometer display, external odometer

NOTE If you don't take any action in 30 seconds, the screen will return to the main screen automatically.



Unit setting (speed, temperature)



















4 Setting screen



● Hold pressing the **Adjust** + **Select button** for 3 seconds the enter the a1 setting screen.





●Press the **Select button** one time to enter the speed unit setting screen.

Now the a1 is flashing!

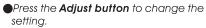


●Press the **Adjust button** to change the

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.

Press the Select button one time to enter the temperature unit setting screen.



NOTE You could choose °C or °F in the Temperature unit setting screen.

 \bigwedge The water temperature unit will change together with the temperature unit.

Press the **Select button** one time to go back to the a1 setting screen.



Press the Adjust button one time to enter the a2 setting screen.

Now the a1 is flashing!



4-2 The circumference and sensing poin

Press the Select button one time to enter the circumference setting screen.

 \setminus Now the a2 is flashing!



●EX. If the circumference is setting 1,300

●Press the Select button to move to the digit you want to set.



Press the Adjust button to change the settina





NOTE Setting range: 1,000~2,500 mm. Setting unit: 1 mm.

⚠ CAUTION!

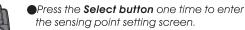
•Please measure the tire circumference (The tire you will install the sensor on) and make sure the number of magnet sensor point (You could install the magnet into the disc screw or the sprocket screw)

•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 terminal point to measure the wheel circumference with a measuring tape





●EX. Now the circumference is setting from 1,000 to 1,300 mm.



●EX. If the sensing point is setting 06P.

•Press the **Select button** to move to the digit you want to set.



Setting unit: 01P.

Press the Adjust button to change the setting.



NOTE Setting range: $01P\sim20$

● Press the **Select button** one time to go back to the a2 setting screen.

●EX.Now the sensing point is setting from 01P



● Press the **Adjust button** one time to enter the a3 setting screen.

Now the a2 is flashing!



● Press the **Select button** one time to enter the RPM input signal setting screen.

 $\underline{\wedge}$ Now the a3 is flashing!



●EX. You want to connect the RPM signal wire to the pick up signal and there are 13 flywheel signals per turn.

Press the Adjust button to change the setting.



NOTE Setting range: 0.5, $1\sim24$



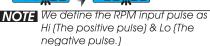
Press the Select button one time to enter the waveforms setting screen.

●EX. Now the RPM input signal number is setting from P-1 to P-13.



●EX. We want to change the setting to Lo. Press the Adjust button to change the

setting. HI ÜCE 🌗 LOÜCE



NOTE If the RPM displayed on the meter is incorrect or with noise, please choose another setting and try it again.



● Press the **Select button** one time to go back to the a3 setting screen.

●EX. Now the setting is changed from Hi to



Press the Adjust button one time to enter the a4 setting screen.

Now the a3 is flashing



● Press the **Select button** one time to enter the fuel resistance setting screen.



●EX. The fuel gauge need to be set to

Press the Adjust button to change the setting



NOTE The fuel gauge resistance setting range: 100Ω , 250Ω , 510Ω , 1200Ω , SW (turn off). If Fuel Setting is set to "SW", then

the value setting for this function will be skipped.

NOTE When fuel setting is set to "SW", the fuel level symbol will light up when fuel level signal wire connected to



● Press the **Select button** one time to enter the fuel warning setting screen.

lacktriangleEX. The setting is changed from 100Ω to



●EX. The insufficient fuel warning need to be set to 50%.

Press the Adjust button to change the settina



NOTE Setting range: 10%~50%.



● Press the **Select button** one time to go back to the a4 setting screen.

lacktriangleEX.The setting is changed from 30% to 50%



● Press the **Adjust button** one time to enter the a5 setting screen.

<u> Now the a4 is flashing</u>



4-5 The clock setting

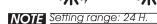
●Press the **Select button** one time to enter the clock setting screen. <u>Now the a5 is flashing!</u>



●EX. We would like to set the clock at 0:05 Press the Select button to move to the digit you want to set.



Press the Adjust button to change the





● Press the **Select button** one time to go back to the a5 setting screen.

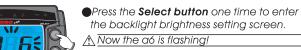
●EX. Now the clock setting is changed from 0:00 to 0:05.



● Press the **Adjust button** one time to enter the a6 setting screen.

 $ilde{\mathbb{N}}$ Now the a5 is flashing:

4-6 The Backlight brightness setting





●EX. We would like to change the brightness to 3-5 (60% brightness.)

●Press the **Adjust button** to change the setting.



NOTE Setting range: 1-5 (Darkest)~5-5 (Brightest), 5 different levels for choosing. Setting unit: 20% per level. The backlight brightness will change immediately after you adjust the setting value.



● Press the **Select button** one time to go back to the a6 setting screen.

EX. The setting is changed from 5-5 to 3-5.



●Press the **Adjust button** one time to enter the a7 display screen.

Now the a6 is flashing!

4-7 Internal odometer display



●Press the **Adjust button** one time to enter the a8 setting screen

Now the a7 is flashing!

4-8 External odometer setting



Press the Select button one time to enter the external odometer setting screen. Now the a8 is flashing!



●EX. We would like to set the external odometer to 5,000 km.

•Press the **Select button** to move to the



Press the Adjust button to change the





●EX.The external odometer is setting 5,000



Press the Adjust button one time to go back to the main screen.

Now the a8 is flashing!



Main screen.





5 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. →The battery is broken or the battery is too old to supply enough power (DC 12V) to make the meter work. 	Tachometer does not appear or appear incorrectly.	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 4-3.
The meter shows wrong information. Speed does not appear or appear incorrectly.		Fuel gauge does not appear or appear incorrectly.	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 4-4.
→pie		Temp does not appear or appear incorrectly. The clock is incorrect.	 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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