



# INSTALLATION



● Thank you for purchasing KOSO XR-SA+ 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 mark.

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

**▲ 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.



FLASH



PRESS THE  
BUTTON ONE TIME



PRESS THE  
BUTTON 3  
SECONDS

## 1-1 Accessory

<b>1</b> Lod meter X1 	<b>2</b> Power wire X1 	<b>3</b> Indicator wire X1 	<b>4</b> Digital speed signal sensor X1 
<b>5</b> D6 x 5L mm magnet X6 	<b>6</b> Connect terminal X9 	<b>7</b> M8/ S type speed sensor bracket X1 	<b>8</b> M10/ S type speed sensor bracket X1 
<b>9</b> M5 X 5L mm Hexagon socket screw X2 	<b>10</b> 2.5 mm spanner X1 	<b>11</b> 4 mm spanner X1 	<b>12</b> Meter bracket X1 set 
<b>13</b> M5 X 12L screw X2 	<b>14</b> M5 X 18L screw X2 	<b>15</b> M5 gasket X2 	

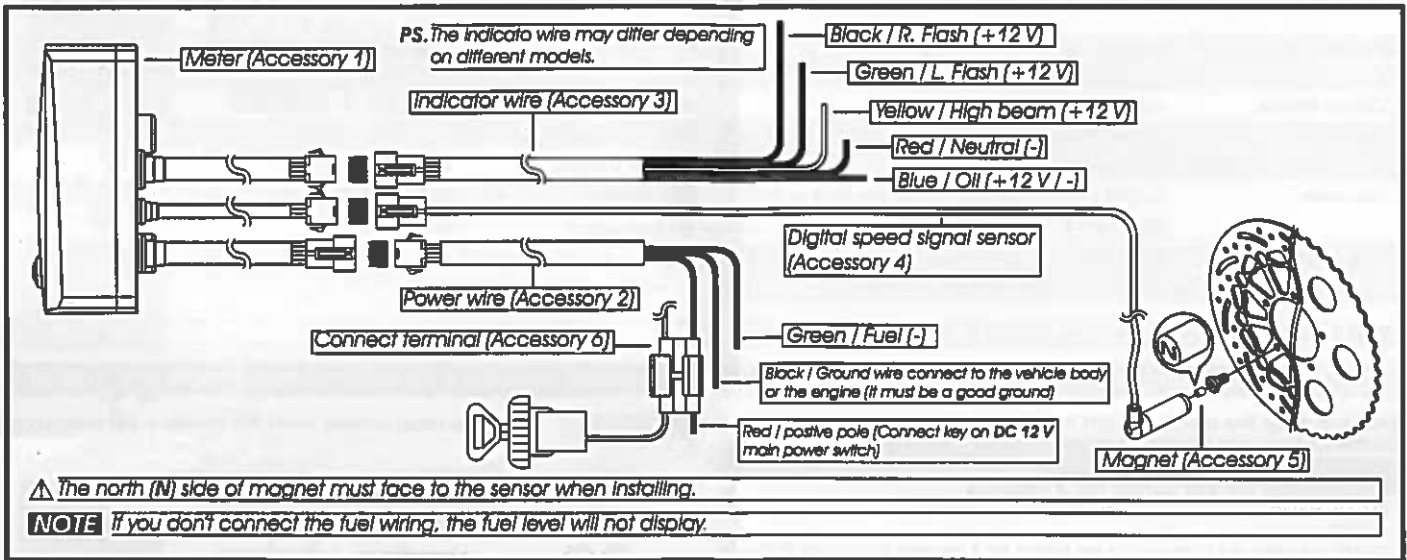
**NOTE** Please contact the local distributor if the items you open are not the same, with the above-listed one.

## 1-2 Accessory

<b>1</b> Disc magnet screw  S/16-18 X 22 1L M5 X P0.8 X 12L M6 X P1.0 X 12 6L M6 X P1.0 X 19 7L M6 X P1.0 X 24L M8 X P1.25 X 22 5L M8 X P1.25 X 27 5L M8 X P1.25 X 29L M10 X P1.25 X 28 3L	<b>2</b> L type speed sensor bracket 	<b>3</b> Meter bracket (for stem) 	<b>4</b> Meter bracket 
<b>5</b> Hand & bar bracket 			

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

## 2-1 Wiring Installation Instructions



## MOTO / SCOOTER Installation instructions



Put the magnet into the brake disc screw hole.



Install the S type sensor bracket.



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 8mm for catching good speed signal.



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.

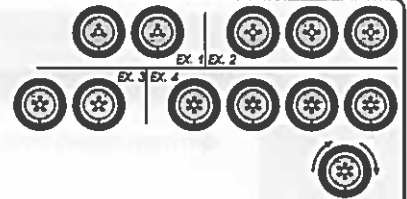
EX. 1: If your disk has 3 screws, you could install 1 or 3 magnets to catch the speed.

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

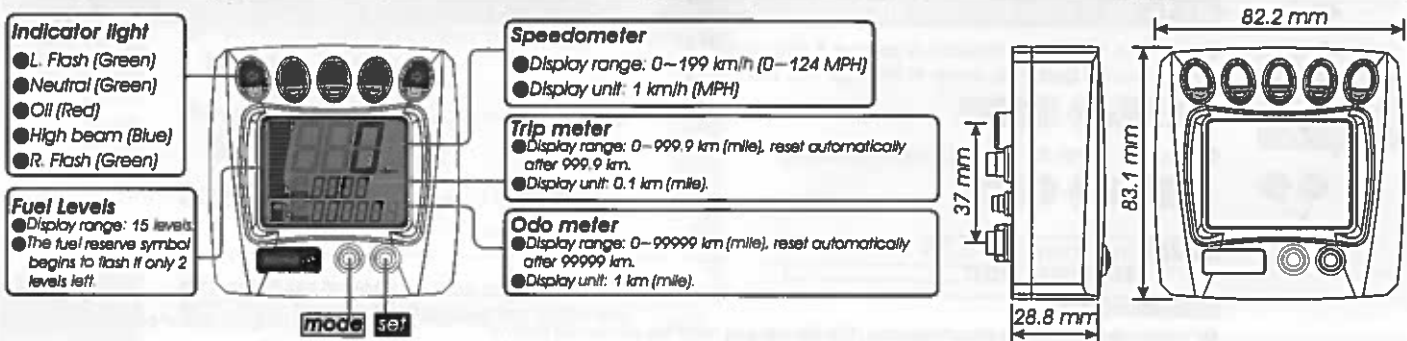
EX. 3: If your disk has 5 screws, you could install 1 or 5 magnets to catch the speed.

EX. 4: If your disk has 6 screws, you could install 1, 2, 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



### 3-2 Function, setting instruction

●Speedometer	Display range: 0~199 km/h (0~124 MPH) Display unit: 1 km/h (MPH)
○Display Interval	<0.5 second
○Odometer	0~99999 km (mile), reset automatically after 99999 km (mile) Display unit: 1 km (mile)
○Trip meter	0~999.9 km (mile), reset automatically after 999.9 km (mile) Display unit: 0.1 km (mile)
○Tire circumference	Display range: 0~2,999 mm Display unit: 1 mm ; Sensor point: 1~9

●Fuel levels	Display range: 15 levels The fuel reserve symbol begins to flash if only 2 levels left.
●Effective voltage	DC 12 V
●Effective temperature range	-10~+60°C
●Meter standard	JIS D 0203 S2
●Meter size	82.2 X 83.1 X 28.8 mm
●Meter weight	Around 152 g

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

### 3-3 The button function instruction

#### Hold pressing the mode button for 3 seconds

1. In main screen, hold pressing the mode button for 3 seconds to enter the setting screen.

#### Hold pressing the Set button for 3 seconds

1. In main screen, hold pressing the set button for 3 seconds to reset the trip meter record.

2. In setting screen, hold pressing the set button for 3 seconds to go back to the main screen.

#### Press the mode + set button

1. In main screen, press the mode + set button to switch between the km/h and MPH.

#### Press the mode button

1. In setting screen, press the mode button to make the number setting.

#### Press the set button

1. In setting screen, press the set button to choose the function you want to set.

### 3-4 Main function switch instruction (mode+set button)



● In the main screen, press the mode + set button one time to switch between the km/h and MPH.



### 3-5 Setting screen instruction



Tire circumference and sensing point



Fuel gauge resistance setting



Internal odometer display



External odometer setting

● In setting screen, press the set button to choose the setting screen. The setting screen is in order as below: tire circumference and sensing point, fuel gauge resistance setting, internal odometer display, external odometer setting.

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

⚠ In setting screen, hold pressing the set button for 3 seconds to go back to the main screen.

## 4 Setting screen



● In main screen, hold pressing the mode button for 3 seconds to enter the setting screen.



### 4-1 Tire circumference and sensor point setting



● EX. If the tire circumference is setting 1,300 mm.

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



● Press the mode button to change the setting.



**NOTE** Setting range: 0~2,999 mm  
Setting unit: 1 mm

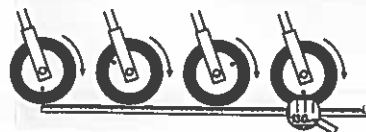
#### CAUTION

- 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.

P.S.



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



- Press the set button one time to enter the sensing point setting screen.
- Ex. Now the tire circumference is setting from 1,000 to 1,300 mm.





- EX. If the sensing point is setting 6.
- Press the mode button to change the setting.



**NOTE** Setting range: 1-9  
Setting unit: 1



- Press the set button one time to enter the fuel gauge resistance setting screen.
- EX. Now the sensing point is setting from 1 to 6.

#### 4-2 Fuel gauge resistance setting



- EX. The fuel gauge need to be set to 510Ω.
- Press the mode button to change the setting.



**Note** The fuel gauge resistance setting range: 100Ω, 250Ω, 510Ω, 1200Ω, SW (turn off).

**Note** When Fuel Setting is set to "SW", the fuel level symbol will light up when fuel level signal wire connected to the (-)



- Press the set button one time to enter the internal odometer display screen.
- EX. The setting is change from 1000 to 510Ω.

#### 4-3 Internal odometer display



- Press the set button one time to enter the external odometer setting screen.

#### 4-4 External odometer setting



- EX. We would like to set the external odometer to 5,000 km.
- Press the set button to move to the digit you want to set.



- Press the mode button to change the setting.



**NOTE** Setting range: 0-99999 km (mile)  
Setting unit: 1 km (mile)



- Press the set button one time to go back to the main screen.
- EX. The external odometer is setting 5,000 km.



- Main screen.