



Thank you for purchasing **KOSO DB-02 speedometer**, before operating the unit, please read the instruction thoroughly and retain it for the future reference.

**Notice**

- The meter function is powered by the inner battery, but the back light is powered by the outside power input
- For installation, please follow the steps described in manual. Any damage caused by wrong installation shall be imputed to the users.
- Don't break or modify the wire terminal. To avoid the short circuit, please don't pull the wire when installing.
- Do not disassemble or change any parts excluding the manual description.
- The interior examination or maintenance should be executed by our professionals.

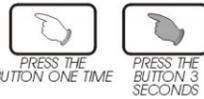
**MARK MEANING:**

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

**▲** Some processes must be followed to avoid the affection caused 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.



**1-1 Accessory**

<b>1</b> LCD meter X 1	<b>2</b> Power wire X 1	<b>3</b> RPM wire set (A TYPE) X 1	<b>4</b> RPM wire set (C TYPE) X 1
<b>5</b> Temp sensor wire set X 2	<b>6</b> PT 1/8 water temp sensor X 2	<b>7</b> Reed switch speed sensor X 1	<b>8</b> D6 X 5L mm magnet X 1
<b>9</b> Mid-way connect X 2	<b>10</b> M8/ S type speed sensor bracket X 1	<b>11</b> M10/ S type speed sensor bracket X 1	<b>12</b> M5X5L Hexagon socket screw X 2
<b>13</b> Battery X 1	<b>14</b> 2.5 mm spanner X 1	<b>15</b> 4 mm spanner X 1	<b>16</b> Meter bracket X 1
<b>17</b> M5 washer X 2	<b>18</b> M5 X 15L screw X 2		

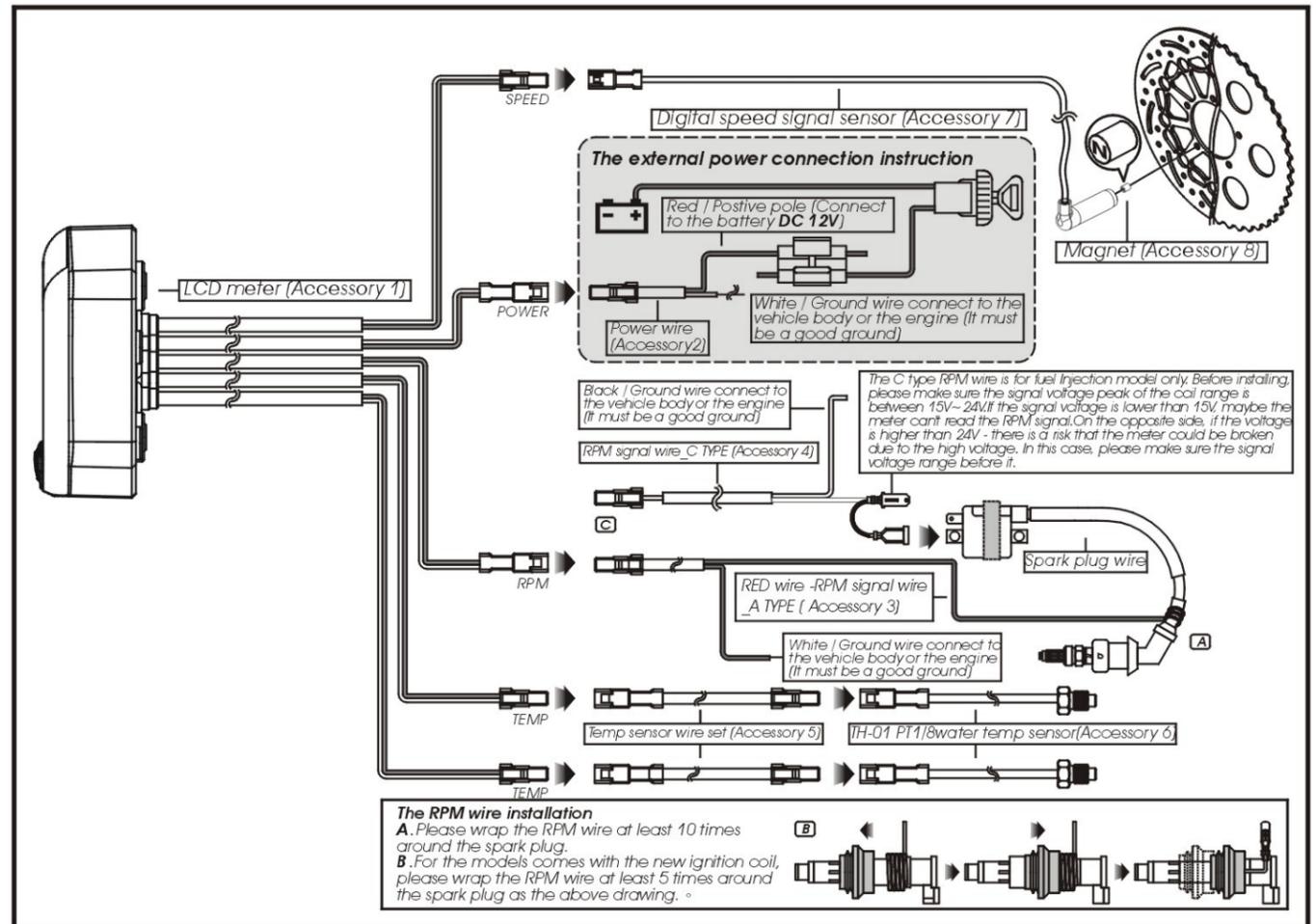
**NOTE** Please contact the local distributor if the items you open are not the same, with the above-listed one.

**1-2 Option accessory**

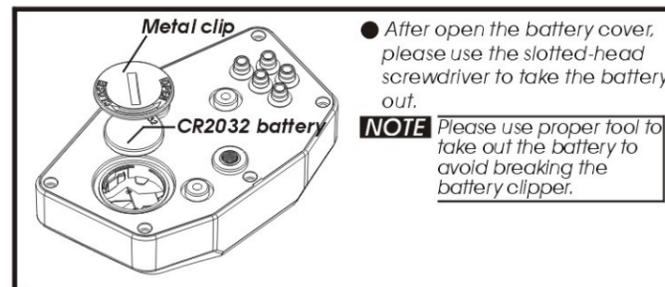
<b>1</b> Disc magnet screw 5/16-18 X 22-1L M5 XP0.8 X 12L M6 XP1.0 X 12-6L M6 XP1.0 X 19-7L M6 XP1.0 X 24L M8 XP1.25 X 22-5L M8 XP1.25 X 27-5L M8 XP1.25 X 29L M10 XP1.25 X 28-3L	<b>2</b> Oil temp sensor adapter M12 X P1.5 X 15L M14 X P1.25 X 15L M14 X P1.5 X 15L M16 X P1.5 X 15L M18 X P1.5 X 15L M20 X P1.0 X 15L M20 X P1.5 X 15L	<b>3</b> Water temp sensor adapter M14 M16, M18 M22, M26 mm	<b>4</b> Temp sensor M10 X P1.0 M12 X P1.5 M14 X P1.25 M14 X P1.5 M16 X P1.5 / M18 X P1.5
<b>5</b> L TYPE speed sensor bracket	<b>6</b> Temp sensor wire set (2 M)		

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

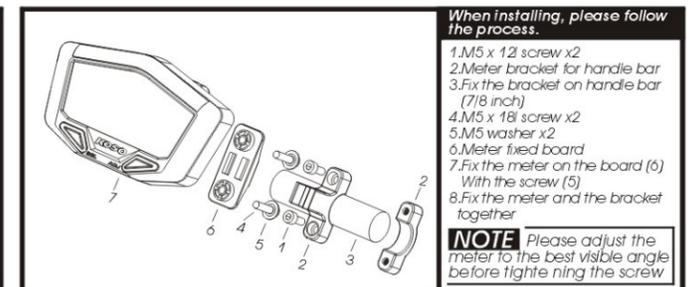
**2-1 Wiring installation instructions**



**2-2 Battery change**



**2-3 INSTALLATION INSTRUCTIONS.**



**3 Display instruction**

**The temperature alarm A/B**

- Setting range : 60~250°C (140~482°F)
- Setting unit : 1 °C (°F)

**Speeding warning light**

- Setting range : 30~360 km/h (19~225 MPH)
- Setting unit : 1 km/h (MPH) °

**The tachometer bar range**

- Display range : 10,000 ~ 15,000 ~ 20,000 RPM °

**Batter situation**

- When the battery is full, it will show the battery in 4 segments.
- When the external power is connect, the battery symbol will disappear.

**Auto sleep function**

- When the meter works with the inner battery, it will enter the auto sleep function when the meter idles over 20 seconds

**The temperature alarm A/B**

- Setting range : 60~250°C (140~482°F)
- Setting unit : 1 °C (°F)

**CLOCK**

- Time : 24H
- When the meter is off, it will show the seconds.

**Volt meter ( the external power )**

- Display range : 0.0~18.0V
- Display unit : 0.1V
- When the external power is connected, it will show the voltage value directly. It will show 0.0V when the external power is disconnected.

**3 stages RPM shift light**

- Setting range : 5,000~20,000 RPM
- Setting unit : 100 RPM

**The digital tachometer**

- Display range : 0~360 km/h (0~225 MPH)
- Display unit : 1 km/h (MPH) °

**Bar graph tachometer**

- Display range : 0~20,000 RPM
- Display unit : 10 RPM °

**Odometer**

- Display range : 0~99999 km (mile), reset automatically after 99999 km (mile)
- Display unit: 0.1 km (mile)

**Trip A, B**

- Display range: 0~999.9 km (mile), reset automatically after 0~999.9 km (mile)
- Display unit: 0.1 km (mile)

### MOTO / SCOOTER S type speed sensor bracket instruction

Loose the screw on the caliper

Install the speed sensor.

Install the S type bracket on the caliper.

Adjusting the distance between the sensor and screw to get the best speed signal. Please make sure the distance is under **2 mm** to get the best signal.

Please adjust the bracket to the proper angle and then screw it up. Please make sure the disc screw could pass the hole on the bracket for you to install the sensor into the same hole for catching the speed signal.

### MOTO / SCOOTER L type speed sensor bracket instruction

Please install the L bracket and the anti-slip rubber on the front fork and adjust it to the proper height and angle.

Please install the speed sensor into the proper hole on the bracket.

Please use the cable tie to fix the bracket on the front fork. Please make sure the disc screw could pass the hole on the bracket for you to install the sensor into the same hole for catching the speed signal.

Adjusting the distance between the sensor and screw to get the best speed signal. Please make sure the distance is under **2 mm** to get the best signal.

**P.S. Top**

The active speed sensor could be installed by the metal parts to detect the speed.  
 EX. 1 The disc screw.  
 EX. 2 The disc to detect the disc gap. (Please make sure the distances between the gaps are the same in advance to avoid wrong speed signal.)  
 EX. 3 The sprocket to detect the disc gap. (Please make sure the distances between the gaps are the same in advance to avoid wrong speed signal.)

**We will suggest you to catch the speed from the disc screws. The more the sensor points are, the better the speed accuracy is. The maximum sensor points the speed sensor could detect is 60 points per turn.**

**⚠ After installation, please use your hand to turn the tire to see is everything ok. The LED on the active speed sensor will light up once the signal is detected.**

**EX. 1**

**The hexagon socket disc screw**  
 The best detect area: The edge of the hexagon socket screw.  
 ⚠ Please don't catch the signal from the middle hole of the hexagon socket screw to avoid wrong signal.

**The hexagon screw**  
 The best detect area: The middle of the screws.  
 ⚠ Some hexagon screw center is with a small hole in the center. In this case, we will suggest you to catch the signal from the edge of the screw like the hexagon socket screw.

**EX. 2**

**The disc**  
 The best detect area: Please detect the speed signal from the gaps of the disc.  
 ⚠ Please note that there are discs with the gaps in different difference, and this method will not work on it!

**EX. 3**

**The sprocket**  
 The best detect area: Please detect the speed signal from the gaps of the sprocket.  
 ⚠ Please note that there are sprockets with the gaps in different difference, and this method will not work on it!

### 3-1 Display instruction

**The temperature alarm A/B**  
 ● Setting range : 60~250°C (140~482°F)  
 ● Setting unit : 1°C (°F)  
**Speeding warning light**  
 ● Setting range : 30~360 km/h (19~225 MPH)  
 ● Setting unit : 1 km/h (MPH) ◦

**The tachometer bar range**  
 ● Display range : 10,000 ~ 15,000 ~ 20,000 RPM ◦

**Volt meter (the external power)**  
 ● Display range : 0.0~18.0V  
 ● Display unit : 0.1V  
 ● When the external power is connected, it will show the voltage value directly. It will show 0.0V when the external power is disconnected.

**The temperature alarm A/B**  
 ● Setting range : 60~250°C (140~482°F)  
 ● Setting unit : 1°C (°F)

**CLOCK**  
 ● Time : 24H  
 ● When the meter is off, it will show the seconds.

**Insufficient fuel**  
 ● Display range: 0%~100%  
 ● Display unit:  
 ● When fuel capacity lower than 20%. The fuel display will showing 5%  
 ● When fuel capacity higher than 20%. The fuel display on gauge will showing 10%

**3 stages RPM shift light**  
 ● Setting range : 5,000~20,000 RPM  
 ● Setting unit : 100 RPM

**The digital tachometer**  
 ● Display range : 0~360 km/h (0~225 MPH)  
 ● Display unit : 1 km/h (MPH) ◦

**Bar graph tachometer**  
 ● Display range : 0~20,000 RPM  
 ● Display unit : 10 RPM ◦

**Odometer**  
 ● Display range: 0~99999 km (mile), reset automatically after 99999 km (mile)  
 ● Display unit: 0.1 km (mile)

**Trip A, B**  
 ● Display range: 0~999.9 km (mile), reset automatically after 0~999.9 km (mile)  
 ● Display unit: 0.1 km (mile)

**Total engine hour meter**  
 ● Display range: 0~999.9 H  
 ● Display unit: 0.1 H (6 Minutes)

### 3-2 Function instruction

● Speedometer	Display range : 0~360 km/h (0~225 MPH) Display unit : km/h & MPH for alternative	○ Temperature alarm A、B	Display range : 60~250°C (140~482°F) Display unit : 1°C (°F)
○ Display internal	<0.5 second	○ TOP temperature record	Setting range : 0~250°C (32~482°F)
○ Odometer	Display range: 0~99999 km (mile), reset automatically after 0~99999 km (mile) Display unit: 0.1 km (mile)	● Fuel meter	Display range: 0~100% Setting range: 100 Ω, 510 Ω, no display
○ Trip meter A、B	Display range: 0~999.9 km (mile), reset automatically after 0~999.9 km (mile) Display unit: 0.1 km (mile)	○ Insufficient fuel warning	Setting range : 10~50 % Setting unit : 10 %
○ Speeding warning light	Setting range : 30~360 km/h (19~225 MPH) Display unit : 1 km/h (MPH)	● Volt meter	Display range : DC 0~18.0 V Display unit : DC 0.1 V
○ Top speed record	Display range : 0~360 km/h (0~225 MPH)	● Target speed timer	Setting range: 30~360 km/h (20~225 MPH) Setting unit: 5 km/h (MPH)
○ Tire circumference	Setting range : 300~2,500 mm Display unit : 1 mm · Sensor point: 20	● Target distance timer	Setting range: 1/32~30/32 mile (50~1,500 M) Setting unit: 1/32 mile (50 M)
○ Digital tachometer	Display range : 2,000 RPM Display unit : 10 RPM	● Top speed timer	The record including, 1.Speed: 0~360 km/h (0~225 MPH) 2.Distance: 0~999 M (0~3,280 feet) 3.RPM: 0~20,000 4.Timer: 0~9'59"99 second.
● Bar graph tachometer	Display range : 10,000 RPM 60 segment bar graph Display unit : 166 RPM for each segment Display range : 15,000 RPM 60 segment bar graph Display unit : 250 RPM for each segment Display range : 20,000 RPM 60 segment bar graph Display unit : 333 RPM for each segment	● Back light	DC 12V
○ RPM shift light	Display range : 5,000~20,000 Display unit : 100 RPM ◦	● Effective temperature range	-10~+60°C
○ Pre-shift light A/B	Display range : -500~ -50,000 before the shift light Display unit : 100 RPM	● Meter standard	JIS D 0203 S2
○ Max. RPM record	Display range : 0~20,000 RPM	● Meter size	100 X 60 X 20 mm
○ RPM input pulse	Display range : 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6	● Meter weight	Around 200 g
● Total engine hour meter	Display range: 0~999.9 H Display unit: 0.1 H (6 Minutes)	● Telltales	● Speeding (RED) ● RPM shift light A (Yellow) ● RPM Shift light (RED) ● Temperature alarm A/B (RED) ● RPM shift light B (Orange)
● Thermometer	Display unit : °C & °F for alternative	<b>NOTE</b> Design and specification are subject to change without notice!	
● Thermometer A、B	Display range : 0~250°C (32~482°F) Display unit : 0.1°C (°F)		
○ Display internal	<0.5 second		

## 4-1 Function switch instruction

### 4-1-1 Select button function instruction

- In main screen, Press the **Select button** once to switch function from clock to temp A.
- In temp A screen, press the **Select button** once to switch from Temp A to Temp B.
- In temp B screen, press the **Select button** once to switch from Temp B to volt.
- In volt screen, press the **Select button** once to switch from volt to fuel meter.
- In fuel screen, press the **Select button** once to switch from the fuel function to the main screen.
- The main screen.

### 4-1-2 Adjust button function instruction

- In main screen, press the **Adjust button** once to switch the function from odometer to trip A.
- In main screen, you could press down the **Adjust button** for 3 seconds to change the speed unit.
- In trip A screen, press the **Adjust button** to switch from trip A to trip B.
- Press down the **Adjust button** for 3 seconds to reset the trip A.
- In trip B screen, press the **Adjust button** to switch from trip B to total engine hour screen.
- Press down the **Adjust button** for 3 seconds to reset the trip B.
- In total engine hour meter screen, press the **Adjust button** to switch from total engine hour meter to Max record.
- Press down the **Adjust button** for 3 seconds to reset the total engine hour meter.
- In Max record screen, press the **Adjust button** once to switch from Max record to the main screen.
- Press the **Select button** once to switch the max record screen from Temp A to Temp B.
- Press down the **Adjust button** for 3 seconds to reset the MAX record.
- The main screen.

### 4-1-3 Adjust+Selectbutton function instruction

- In main screen, press the **Adjust & Select button** one time at the same time to switch the digital speedometer to digital tachometer.

### 4-1-4 Select+Adjust button function instruction X3

- Press down the **Adjust & Select button** for 3 seconds to enter setting screen. (Check section 5-2 for detail)

## 4-2 Function setting instruction

### In main screen

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

### Tire circumference setting

- EX. The tire circumference is 1,300 mm.
- Press the **Select button** to move to the digit you want to set.
- NOTE: setting range: 300~2,500 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.

**PS. Try it!**

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 choose the setting number.
- EX. The circumference setting is changed from 1,000 mm to 1,300mm.
- Press the **Select button** to enter the sensor point setting

### Sensor point setting

- Press the **Adjust button** to choose the setting number.
- EX. The sensor point you want to set is 6.
- NOTE: The sensor point setting range: 6 points.

- EX. the sensor point setting is changed from 1 P to 6 P.
- Press the **Select button** to enter the RPM pulse setting.

### RPM pulse setting

- EX. You want to change the current setting value from 1 to 2.
- Press the **Adjust button** to enter the corresponding value for the RPM signal number per ignition. (Please check the reference table below!)
- EX. The original setting is 0.5 (4C-1P).
- NOTE: The piston type can be set is 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6.

The setting value	The corresponding stroke and piston number	The corresponding RPM signal number per ignition
0.5	1 4C-1P	2 RPM signals per 1 ignition.
1	2C-1P 4C-2P	1 RPM signal per 1 ignition.
1.5	4C-3P	2 RPM signals per 3 ignition.
2	2C-2P 4C-4P	1 RPM signal per 2 ignition.
2.5	4C-5P	2 RPM signals per 5 ignition.
3	2C-3P 4C-6P	1 RPM signal per 3 ignition.
4	2C-4P 4C-8P	1 RPM signal per 4 ignition.
5	4C-10P	2 RPM signals per 10 ignition.
6	2C-6P 4C-12P	1 RPM signal per 6 ignition.

**CAUTION!** 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. The ignition angle setting is changed from 1 to 2 (4C-4P).
- Press the **Select button** to enter the RPM setting screen.

### The negative impulse

- EX. We would like to change the setting to Lo. (The negative impulse)
- Press the **Adjust button** to choose the input signal you want to set.
- 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.

- EX. Now the setting is HI (The positive impulse)
- Press the **Select button** to enter the RPM setting screen.

### Bar graphic tachometer

- EX. You want to set the bar graphic tachometer to 20,000 RPM.
- Press the **Adjust button** to choose the setting range.
- NOTE: The tachometer range: 10,000, 15,000, 20,000RPM

- EX. Now the setting is changed from 10,000 RPM to 20,000 RPM.
- Press **Select button** to enter the speeding setting screen.

### Speeding warning light setting

- EX. The speeding alarm you want to set is 68 Km/h.
- Press the **Select button** to move to the digit you want to set.
- NOTE: Setting range: 30~360km/h (19~225 MPH). Setting unit: 1 km/h (MPH)

- The speeding alarm setting is changed from 60 Km/h to 68 Km/h.
- Press the **Adjust button** to choose the setting number.
- Press **Select button** to enter the shift light setting screen.

**PS. Try it!**

The speeding light will light on when the speed reaches your speeding warning setting.

**The shift light setting instruction**

●The setting is started from the Shift light, and then make the setting value for Pre shift light A&B according to it.



**●The shift light setting**

●EX: You want the shift light to light on at 9500 RPM. Please change the shift light setting value to 9500 directly.

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

**NOTE** Display range : 5,000~10,000 RPM  
Display unit : 100 RPM

●EX: Now the shift light setting is changed from 5000RPM to 9500 RPM.

●Press the **Select button** to enter the pre shift light B setting.

**●The pre-shift light B setting**

●EX: You want the pre-shift B light to light on at 8000 RPM.

**The equation is as following.**  
The shift light setting value (9500) - The pre-shift light B setting value, (B) = 8000 (the RPM you want the pre-shift light to light on.)  
=> The setting value of pre-shift light B = 1500. It means that you should set the pre-shift light setting as 15.

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

**NOTE** Display range : 5 (500 RPM)~50 (5000 RPM)  
Display unit : 100 RPM

●EX: The setting value is changed from 10 to 15.

●Then press the **Select button** to enter the pre-shift light A setting.

**●The pre-shift light A setting**

●EX: You want the pre-shift A light to light on at 7500 RPM.

**The equation is as following.**  
The pre-shift light B setting value (8000) - The pre-shift light A setting value (A) = 7500 (the RPM you want the pre-shift light to light on.)  
=> The setting value of pre-shift light A = 500. It means that you should set the pre-shift light A setting as 5.

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

**NOTE** Display range : 5 (500 RPM)~50 (5000 RPM)  
Display unit : 100 RPM

●EX: The setting value is changed from 10 to 5.

●Then press the **Select button** to enter the pre-shift light A setting.



**●Temperature alarm A setting**



**●Temperature alarm B setting**



**●The clock setting**



●EX: You want to set the temperature alarm A at 68C.

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



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

●EX: The temperature alarm A setting is changed from 60 C to 68 C.



●Then Press the **Select button** to enter the temperature alarm B setting.



●EX: You want to set the temperature alarm B at 108C.

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



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

●EX: The temperature alarm A setting is changed from 100 C to 108 C.



●Press the **Select button** one time to enter the clock (hour) setting.



●EX: You want to change the hour to 14.

●Press the **Adjust button** to choose the hour you want to set.



**NOTE** Setting range: 0~23 H.

●EX: Now the setting is changed from 0:00 to 14:00.

●Then press the **Select button** to enter the minute setting.

**●The clock setting**



●EX. To change the setting to 14:05.

●Press the **Adjust button** to choose the hour you want to set.



**NOTE** Setting range: 0~59 minutes.

**CAUTION!** The second will be reset if you adjust the clock setting.

●EX. Now the setting is changed from 14:00 to 14:05.

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

**●The fuel gauge resistance**



●EX. You want to change the fuel resistance setting to 510 Ω.

●Press the **Adjust button** to choose the hour you want to set.



**NOTE** The fuel gauge resistance setting range: 100 Ω, 510 Ω.

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

●EX: The fuel gauge resistance setting is changed from 100 Ω to 100 Ω.

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

**●The insufficient fuel warning**



●EX. You want to change the insufficient fuel warning setting to 50%.

●Press the **Adjust button** to choose the hour you want to set.



**NOTE** The insufficient fuel warning setting range : 10%~50% .

●EX: The insufficient fuel warning setting is changed from 10% to 50%.

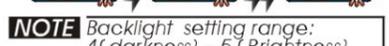
●Press the **Select button** one time to enter the backlight setting setting.

**●Backlight setting**



●EX. You want to set the brightness at 5.

●Press the **Adjust button** to choose the hour you want to set.



**NOTE** Backlight setting range: 1 (darkness) ~5 (Brightness) .

●EX: The Backlight setting setting is changed from ILL 1 to ILL 5.

●Press the **Select button** one time to enter the target speed timer test.

**●Target speed timer test**



●EX. You want to change the target speed timer test setting to 0~110

●Press the **Adjust button** to choose the hour you want to set.



●EX: The target speed timer test setting is changed from 0~30 km/h to 0~110 km/h.

●Press the **Select button** one time to enter the target distance timer test.

**●Target distance timer test**



●EX. You want to change the target distance timer test setting to 4/32 mile .

●Press the **Adjust button** to choose the hour you want to set.



●EX: The target distance timer test setting is changed from 1/32 mile to 4/32 mile.

●Press **Select button** to back the main screen.



●The main screen.

### 5-1 Power TEST Target speed timer test



In main screen, press down the **Adjust X 3 seconds** to enter the target speed timer test setting.



#### WARNING!

Please use this function at racetrack to avoid traffic accidents.

In power test screen, press the **Select button** one time to enter the target speed timer test screen.

**NOTE** Please start the test when the bike stops.

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 target speed timer test screen. EX. Now you could see the record you have before. It displays the target speed timer setting as 0-110 km/h, the test result: 19"20 seconds. The top speed is 110 km/h during the test. The MAX RPM is 10,000 RPM during the test.

If you just want to use the function one time, hold down the **Select button** for 3 seconds to save the records and back to the main screen.

When the bike moves, the timer will start automatically.

**NOTE** About the power test setting, please check 4-2.

Enter the testing screen if no record

Enter the testing screen if no record

### 5-2 Power TEST Target distance timer test



In main screen, press down the **Adjust X 3 seconds** to enter the target distance timer test setting.



#### WARNING!

Please use this function at racetrack to avoid traffic accidents.

In power test screen, press the **Select button** 2 times to enter the target distance timer test screen.

**NOTE** Please start the test when the bike stops.

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 target distance timer test screen. EX. Now you could see the record you have before. It displays the target speed timer setting as 2/32 mile (100 M), the test result: 10"27 seconds. The top speed is 63 km/h during the test. The MAX RPM is 8,000 RPM during the test.

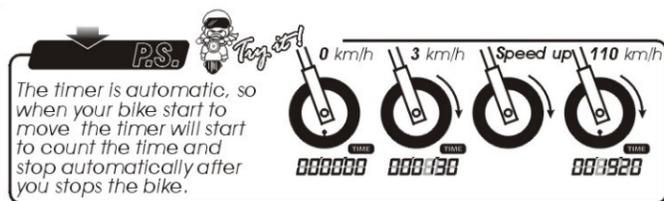
If you just want to use the function one time, hold down the **Select button** for 3 seconds to save the records and back to the main screen.

When the bike moves, the timer will start automatically.

**NOTE** About the power test setting, please check 4-2.

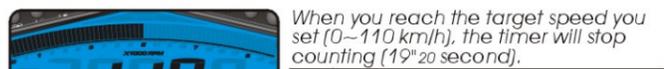
Enter the testing screen if no record

Enter the testing screen if no record



The timer is automatic, so when your bike start to move the timer will start to count the time and stop automatically after you stops the bike.

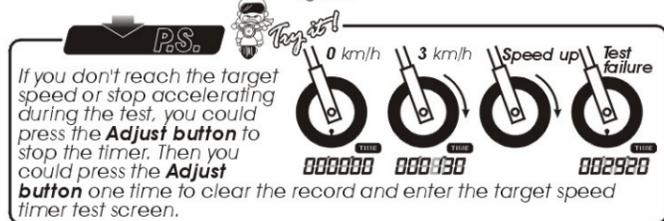
During the test, the will keep flashing!



When you reach the target speed you set (0-110 km/h), the timer will stop counting (19"20 second).

If you just want to use the function one time, hold down the **Select button** for 3 seconds to save the records and back to the main screen.

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



If you don't reach the target speed or stop accelerating during the test, you could press the **Adjust button** to stop the timer. Then you could press the **Adjust button** one time to clear the record and enter the target speed timer test screen.

### 5-3 Power TEST The top speed test



In main screen, press down the **Adjust X 3 seconds** to enter the top speed timer test setting.



#### WARNING!

Please use this function at racetrack to avoid traffic accidents.

In power test screen, press the **Select button** 3 times to enter the top speed test screen.

**NOTE** Please start the test when the bike stops.

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/h, the distance to reach the top speed is 510 M. The MAX RPM is 10,000 RPM during the test, the time you need to reach the top speed is 10"20 seconds.

If you just want to use the function one time, hold down the **Select button** for 3 seconds to save the records and back to the main screen.

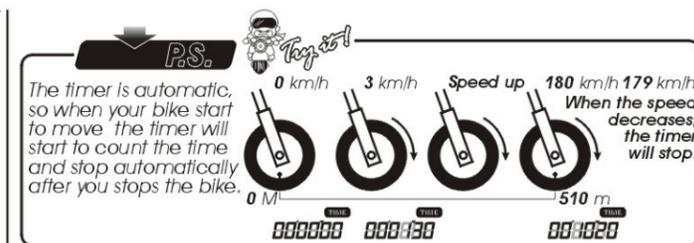
When the bike moves, the timer will start automatically.

**NOTE** The top speed test range  
Speed: 0-360 km/h.  
Distance: 0-999 M (3280 feet)  
RPM: 0-10,000 / 20,000 RPM.  
Timer: 0-9"59"99 seconds.

The setting unit will change together with the speed unit setting (4-2).

Enter the testing screen if no record

Enter the testing screen if no record



The timer is automatic, so when your bike start to move the timer will start to count the time and stop automatically after you stops the bike.

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.

## 6 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.	<ul style="list-style-type: none"> <li>The power doesn't supply to the meter.                             <ul style="list-style-type: none"> <li>→ Please make sure the wiring is connected. The wiring and fuse are not broken.</li> <li>→ The battery is broken or the battery is too old to supply enough power DC 12V to make the meter work.</li> </ul> </li> </ul>	Fuel gauge does not appear or appear incorrectly.	<ul style="list-style-type: none"> <li>Please check your fuel tank.                             <ul style="list-style-type: none"> <li>→ Is there any fuel inside?</li> </ul> </li> <li>Please check the wiring.                             <ul style="list-style-type: none"> <li>→ Do you connect the wiring correctly?</li> </ul> </li> <li>Please check the setting.                             <ul style="list-style-type: none"> <li>→ Please refer to the manual 4-2.</li> </ul> </li> </ul>
The meter shows wrong information.	<ul style="list-style-type: none"> <li>Please check the voltage of your battery, and make sure the voltage is over DC12V.</li> <li>Please make sure the speed sensor is connected correctly.</li> <li>Please check the tire-size setting.                             <ul style="list-style-type: none"> <li>→ please refer to the manual 4-2.</li> </ul> </li> </ul>	Temp does not appear or appear incorrectly.	<ul style="list-style-type: none"> <li>Please check the sensor.                             <ul style="list-style-type: none"> <li>→ Does the wiring break or falling off?</li> </ul> </li> <li>Do you connect the wiring correctly.                             <ul style="list-style-type: none"> <li>→ Please check the positive wire (Red) connects to the battery, and main switch positive wiring (Brown) connects to the main switch.</li> </ul> </li> </ul>
Speed does not appear or appear incorrectly.	<ul style="list-style-type: none"> <li>Please make sure the speed sensor is connected correctly.</li> <li>Please check the tire-size setting.                             <ul style="list-style-type: none"> <li>→ please refer to the manual 4-2.</li> </ul> </li> </ul>	The clock is incorrect.	
Tachometer does not appear or appear incorrectly.	<ul style="list-style-type: none"> <li>Please check the RPM sensor wiring is connected correctly.</li> <li>Please check the spark plug is R type or not. If not, please replace the spark plug with the R type spark plug.</li> <li>Please check your setting.                             <ul style="list-style-type: none"> <li>→ Please refer to the manual 4-2.</li> </ul> </li> </ul>		

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