



Thank you for purchasing **KOSO D1 OLED meter**. Before operating the unit, please read the instruction thoroughly and retain it for the future reference.

A. Notice

- The led meter is apply for DC 12V.
- For installation, please follow the steps described in manual. Any damage caused by wrong installation shall be imputed to the users.
- Do not break or modify the wire terminal. To avoid the short circuit, please don't put 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 WARNING:

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

A 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

1 Meter X 1	2 Main wiring X 1	3 RPM WIRE (TYPE A) X 1	4 RPM WIRE (TYPE B) X 1
5 2 Pin Extension Wire X2	6 1/8" ID washer Temp sensor X 1	7 Air temp. sensor wire X1	8 4 Pin Extension Wire X1
9 Speed switch speed sensor X 1	10 D6 X 5L 3mm magnet X 6	11 Controlling box X1	12 External button X1
13 Mid-way connect X9	14 M3X30.5x1.5mm Hexagon socket screw X2	15 M3X9.5 nut X2	16 M3 washer X2
17 3M double-sided adhesive X1	18 Blind X2		

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

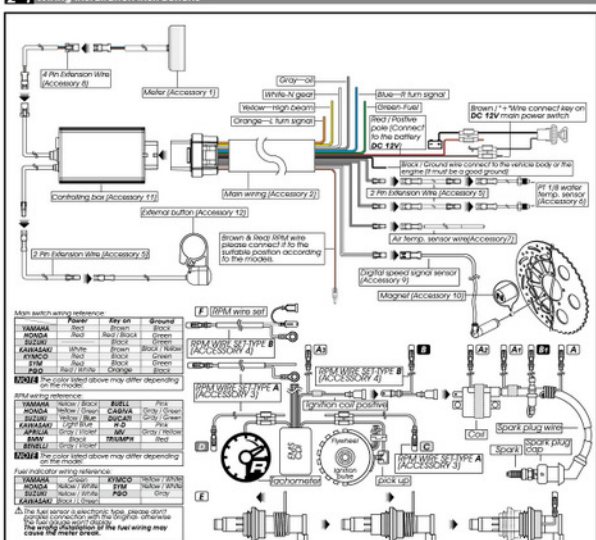
1-2 Option accessory

1 Active speed sensor	2 Disc magnet screw	3 L TYPE speed sensor bracket	4 Oil temp sensor adapter
5 Water temp sensor adapter	6 Temp sensor	7 Temp sensor wire set (2 M)	

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 20 points, and the speed displayed will be more accurate. Please note that the speed sensor attached in the kit is positive speed sensor, and the maximum speed signal it could read is 5 points.

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

2-1 Wiring installation instructions



NOTE The temperature will disappear if you don't install & connect the temperature sensor with the meter.

NOTE When connecting the power wiring, please follow the instruction. If you connect the red & brown wiring in parallel will cause the meter work improperly.

A. The RPM wire installation

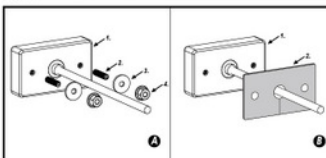
- Please wrap the RPM wire at least 5 times around the spark plug.
- Please use tape to fix the RPM wire (Type A) wire into the spark plug cap.
- Please use tape to fix the RPM wire (Type B) on the coil positive pole wire. For some models with the coil negative wire, please fix the RPM wire (Type A) on the negative wire to get the RPM signal. (For example, the RAMA Vmax 1200)
- Please connect the RPM wire (Type B) to connect to the ignition coil positive pole.
 - Please wrap the RPM wire (Type B) on the spark plug wire by connecting the male and female connector.
 - Please connect the RPM wire (Type A) to the pick up.
 - Please parallel the RPM wire (Type A) with the original tachometer signal wire. (This method is available only when the original speedometer comes with a tachometer on it. You could get the RPM wire information from the service manual of your bikes.)
- For the models come with the new ignition coil, please wrap the RPM wire (Type A) at least 5 times around the spark plug as the above drawing.

F Please use the method mentioned above to install the RPM wire, and then connect the ground wire to the bike body or the engine. (Please make sure that the ground must be a good ground).

For multi-ignition models, we will suggest you to get the signal on the first ignition. The best signal source will be in order as D > C > B > A, we will suggest you to check different ways if you have problems to get the RPM signal.

CAUTION! When wrong connection of air temperature sensor and water temperature sensor will cause the temperature incorrectly display.

2-2 Installation instructions

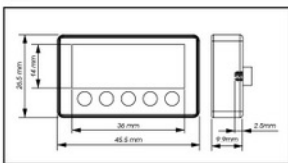


When installing, please follow the process.

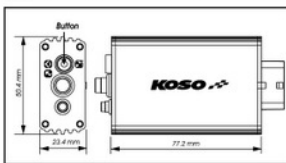
- Meter X 1 (Accessory 1)
- M3XPO.5X12mm Hexagon socket screw (Accessory 14)
- M3 washer (Accessory 15)
- M3XPO.5 nut (Accessory 16)
- Meter X 1 (Accessory 1)
- 2.3M double-sided adhesive (Accessory 17)

NOTE Please choose either M3xPO.5 or according to your need to install.

3-1 Meter size



3-2 Controlling box size & function instruction



3-3 Basic function instruction

Digital tachometer

- Display range: 0–20,000 RPM
- Display unit: 10 RPM

Level tachometer

- Display range: 0–8,000 / 0–12,000 / 0–16,000 RPM
- Display unit: 100 RPM
- 8,000 RPM each level represents 500 RPM
- 12,000 RPM each level represents 500 RPM
- 16,000 RPM each level represents 1,000 RPM

Odo meter

- Display range: 0–99999 km (mile)
- reset automatically after 99999 km

Trip meter A/B

- Display range: 0.00–999.9 km
- reset automatically after 999.9 km
- Display unit: 0.1 km (mile).

Speedometer

- Display range: 0–360 km/h (0–225 MPH)
- Display unit: km/h (MPH) for alternative



Indicators lights

- Turn signal (orange)
- Engine oil pressure light (Red)
- Neutral light (Green)
- High beam light (Blue)
- Turn signal (orange)

Temperature warning (water & oil temp.)

- Setting range: 60–250°C (140–482°F)
- Setting unit: °C/°F
- When higher than the set value (included), the symbol will flashing as warning.



Low fuel gauge warning

- Setting range: 0–3
- Setting unit: 1
- When lower than the set value (included), the symbol will flashing as warning.



Low Temperature warning (air)

- Setting range: 10–20°C (14–68°F)
- Setting unit: °C/°F
- When lower than the set value (included), the symbol will flashing as warning.



Low volt warning

- Setting range: DC 8.0–DC 18.0 V
- Setting unit: 0.1 V
- When lower than the set value (included), the symbol will flashing as warning.



Thermometer (water & oil temp.)

- Display range: 0.0–250.0°C (32.0–482.0°F)
- When the temperature >= 100, the decimal places will not display.
- Display unit: When temp. < 100—°C (°F); When temp. ≥ 100—°C (°F)

- Display—°C (°F) if temperature sensor is not connected.

Thermometer (air)

- Display range: 0.0–250.0°C (32.0–482.0°F)
- When the temperature >= 100, the decimal places will not display.
- Display unit: When temp. < 100—°C (°F); When temp. ≥ 100—°C (°F)

- Display—°C (°F) if temperature sensor is not connected.

Fuel Level

- Display range: 0–4 levels.

Digital Volt meter

- Display range: DC 8.0–DC 18 V
- Display unit: 0.1 V

Clock

- 0:04

Perpetual calendar

- Display range (year): 2000–2099
- Display range (month): 1–12
- Display range (date): 1–31 (automatically adjust according to the current month and year)
- Display range (day): Monday–Sunday

Speeding warning

- Setting range: 30–360 km/h (19–225 MPH)
- Setting unit: 1 km/h (MPH)
- When higher than the set value (included), the light will flashing as warning.

The RPM shift

- Setting range: 1000–30,000 RPM
- Setting unit: 100 RPM
- When higher than the set value (included), the digits will flashing as warning.

4-2 Function, setting instruction

Speedometer

- Display range: 0–360 km/h (0–225 MPH)
- Display unit: km/h (MPH), for alternative
- Display internal <0.5 second
- Odometer Display range: 0–99999.9 km (mile), reset automatically after 99999.9 km (mile)
- Trip meter A/B Display range: 0–999.9 km (mile), reset automatically after 999.9 km (mile), Display unit: 0.1 km (mile).

Speeding warning

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

Oil circumference

- Setting range: 300–2,500 km/mi
- Setting unit: 1 mm, Sensitivity point: 1–20

Digital tachometer

- Display range: 0–20,000 RPM
- Display unit: 10 RPM

Level tachometer

- Display range: 0–8,000 / 0–12,000 / 0–16,000 RPM
- Display unit: 8,000 RPM each level represents 500 RPM, 12,000 RPM each level represents 500 RPM, 16,000 RPM each level represents 1,000 RPM

Display internal

- <0.5 second
- The RPM shift Setting range: 1000–20,000 RPM
- Setting unit: 500 RPM +

The RPM input signal number setting

- Setting range: 0.5, 1–24

The RPM input pulse

- Setting range: H (The positive wave pulse) / L (The negative wave pulse)

Thermometer

- Display unit: °C & °F for alternative
- Thermometer Display range: 0.0–250.0°C (32.0–482.0°F), when the temp. ≥ 100, the decimal places will not display.
- Setting unit: when temp. < 100—°C (°F); when temp. ≥ 100—°C (°F)

Temperature warning

- Setting range: 60–250°C (140–482°F) (water & oil temp.)
- Setting unit: °C (°F)
- When higher than the set value (included), the symbol will flashing as warning.

Thermometer (air)

- Display range: 0.0–250.0°C (32.0–482.0°F)
- When higher than the set value (included), the symbol will flashing as warning.

Fuel Level

- Setting range: 0–4 levels

Digital Volt meter

- Setting range: DC 8.0–DC 18.0 V
- Setting unit: 0.1 V

Clock

- 0:04

Perpetual calendar

- Display range (year): 2000–2099
- Display range (month): 1–12
- Display range (date): 1–31 (automatically adjust according to the current month and year)
- Display range (day): Monday–Sunday

Speeding warning

- Setting range: 30–360 km/h (19–225 MPH)
- Setting unit: 1 km/h (MPH)
- When higher than the set value (included), the light will flashing as warning.

The RPM shift

- Setting range: 1000–30,000 RPM
- Setting unit: 100 RPM
- When higher than the set value (included), the digits will flashing as warning.

Thermometer (air)

- Display range: -20.0–60.0°C (4.0–140°F)
- When the temperature >= 100, the decimal places will not display.
- Display unit: When temp. < 100—°C (°F); When temp. ≥ 100—°C (°F)
- Display—°C (°F) if temperature sensor is not connected.

Low temperature warning (air)

- Setting range: 10–20°C (14–68°F)
- Setting unit: °C (°F)
- When lower than the set value (included), the symbol will flashing as warning.

Fuel Level

- Display range: 0–4 levels
- Display unit: Each level represents 16.6%
- Setting range: 1000, 2500, 5100, 12000, 3W

Low fuel gauge warning

- Setting range: 0–3
- Setting unit: 1; When lower than the set value (included), the symbol will flashing as warning.

Clock

- 0:04

Digital Volt meter

- Display range: DC 8.0–DC 18.0 V
- Setting unit: 0.1 V; When lower than the set value (included), the symbol will flashing as warning.

Low volt warning

- Setting range: DC 8.0–DC 18.0 V
- Setting unit: 0.1 V; When lower than the set value (included), the symbol will flashing as warning.

Brightness

- Setting range: -5 (Darkest) – 5 (Brightest)
- Setting unit: 20% per level.

Effective voltage

- DC 12 V
- Effective temperature range: -10 – +60°C

Meter standard

- JIS D 0032

Meter size

- 45 X 26.5 X 9.9 mm

Meter weight

- Around 22.1 g

Indicator light color

- L (um signal (orange))
- E (Engine oil pressure light (Red))
- N (Neutral light (Green))
- H (High beam light (Blue))
- R (Turn signal (orange))

NOTE Design and specification are subject to change without notice!

3-5 The button function instruction

Two Buttons Situation

- Press the controlling bar button
- 1. In setting screen, press the controlling bar button to choose the function you want to set (1).
- 2. In setting function screen, press the controlling bar button to choose the function and go back to the main screen.

Hold pressing the controlling bar button for 3 seconds

- 1. In setting screen, hold pressing the controlling bar button for 3 seconds to go back to the main screen.
- 2. In setting function screen, hold pressing the controlling bar button for 3 seconds to go back to the main screen.

Press the external button

- 1. In main screen, press the external button to choose the function screen.
- 2. In setting screen, press the external button to choose the function you want to set (1).
- 3. In setting function screen, press the external button to make the number setting.
- 4. When the meter is off, press the external button to wake up the clock.

Hold pressing the external button for 3 seconds

- 1. In main screen, hold pressing the external button to choose the display of odometer, Trip A, Trip B record. Choose the function screen to enter the last setting function screen.
- 2. In last setting function screen, hold pressing the external button to choose the function you want to set.

Hold pressing the external button for 3 seconds

- 1. In main screen, hold pressing the external button to choose the display of odometer, Trip A, Trip B record. Choose the function screen to enter the last setting function screen.
- 2. In last setting function screen, hold pressing the external button to choose the function you want to set.

Hold pressing the external button for 3 seconds

- 1. In main screen, hold pressing the external button to choose the display of odometer, Trip A, Trip B record. Choose the function screen to enter the last setting function screen.
- 2. In last setting function screen, hold pressing the external button to choose the function you want to set.

3-6 Stand by function instruction

- When the meter is off, press the external button for 1 second to wake up the clock.

- The clock will display 30 seconds after wake up.

3-7 Main function switch instruction (external button)

- In main screen (ODO), Press the external button one time to enter the Trip A screen.
- In Trip A screen, Press the external button one time to enter the Trip B screen.
- Hold pressing external button for 3 seconds to reset Trip A record.
- In Trip B screen, Press the external button one time to enter the RPM screen.
- Hold pressing external button for 3 seconds to reset Trip B record.
- In RPM screen, Press the external button one time to enter the water temp. screen.
- In water temp. screen, Press the external button one time to enter the oil temp. screen.
- Hold pressing external button for 3 seconds to enter the temperature warning (water temp.) fast setting screen. (Please check 3-8-1)
- In oil temp. screen, Press the external button one time to enter the air temp. screen.
- Hold pressing external button for 3 seconds to enter the temperature warning (oil temp.) fast setting screen. (Please check 3-8-2)

- In air temp. screen, Press the external button one time to enter the fuel gauge screen.
- Hold pressing external button for 3 seconds to enter the low temperature warning (air) fast setting screen. (Please check 3-8-3)
- In fuel gauge screen, Press the external button one time to enter the volt screen.
- Hold pressing external button for 3 seconds to enter the fuel gauge resistance setting and low fuel gauge warning fast setting screen. (Please check 3-8-4)
- In volt screen, Press the external button one time to enter the clock screen.
- Hold pressing external button for 3 seconds to enter the low volt warning fast setting screen. (Please check 3-8-5)
- In clock screen, Press the external button one time to enter the perpetual calendar screen.
- Hold pressing external button for 3 seconds to enter the clock fast setting screen. (Please check 3-8-6)
- In perpetual calendar screen, Press the external button one time to go back to the main screen (ODO).
- Hold pressing external button for 3 seconds to enter the perpetual calendar fast setting screen. (Please check 3-8-7)

3-8 Fast setting function instruction (external button)

3-8-1 temperature warning (water temp.) setting

- In water temp. screen, hold pressing the external button for 3 seconds to enter the temperature warning (water temp.) fast setting screen.
- EX. We want to change the setting to 95°C -
- Hold pressing the external button for 3 seconds to move to the digit you want to set.
- Press the external button to change the setting.
- Note Setting range: 60~250°C (140~482°F)
Setting unit: 1°C (1°F)

The temperature warning will light on when the temperature reached your setting.

- In other main screens, the warning symbol will light up as well (Please see the figure below).

3-8-2 temperature warning (oil temp.) setting

- In oil temp. screen, hold pressing the external button for 3 seconds to enter the temperature warning (oil temp.) fast setting screen.
- EX. We want to change the setting to 95°C -
- Hold pressing the external button for 3 seconds to move to the digit you want to set.
- Press the external button to change the setting.
- Note Setting range: 60~250°C (140~482°F)
Setting unit: 1°C (1°F)

The temperature warning will light on when the temperature reached your setting.

- In other main screens, the warning symbol will light up as well (Please see the figure below).

3-8-3 low temperature warning (air) setting

- In air temp. screen, hold pressing the external button for 3 seconds to enter the low temperature warning (air) fast setting screen.
- EX. We want to change the setting to 10°C -
- Press the external button to change the setting.
- Note Setting range: -10~20°C (14~68°F)
Setting unit: 1°C (1°F)

● Hold pressing the external button for 3 seconds to go back to the air temp. screen.

- EX. Now the low temperature warning (air) is setting from 3°C to 10°C.

The temperature warning will light on when the temperature reached your setting.

- In other main screens, the warning symbol will light up as well (Please see the figure below).

3-8-4 The fuel gauge resistance & warning setting

- In fuel gauge screen, hold pressing the external button for 3 seconds to enter the fuel gauge resistance fast setting screen.
- EX. The fuel gauge need to be set to 5100.
- Press the external button to change the setting.
- Note The fuel gauge resistance setting range: 1000, 2500, 5100, 12000. Set 0 turn off.
- Note When Fuel Setting is set to 50%, the fuel level symbol will light up when fuel level signal were connected to the (-).
- EX. We want to change the setting to 3:6 -
- Hold pressing the external button for 3 seconds to enter the low fuel gauge warning setting screen.
- EX. The setting is changed from 100% to 5100.
- Press the external button to change the setting.
- Note Setting range: 0~3
Setting unit: 1

The low fuel gauge warning will light on when the fuel gauge reached your setting.

- In other main screens, the warning symbol will light up as well (Please see the figure below).

3-3-5 low volt warning setting



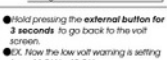
- In volt screen, hold pressing the external button for 3 seconds to enter the low volt warning fast setting screen.



- EX. We want to change the setting to 10.5 V.**
- Hold pressing the external button for 3 seconds to move to the digit you want to set.



- Press the external button to change the setting.



- Hold pressing the external button for 3 seconds to go back to the volt screen.
- EX. Now the low volt warning is setting from 11.5 V to 10.5 V.**



The low volt warning will light on when the volt reached your setting.



- In other main screens, the warning symbol will light up as well (Please see the figure below).



3-3-6 clock setting



- In clock screen, hold pressing the external button for 3 seconds to enter the clock fast setting screen.



- EX. We would like to set the clock to 0:00.**
- Hold pressing the external button for 3 seconds to move to the digit you want to set.



- Press the external button to change the setting.



Note This is a 24 H clock.



- Hold pressing the external button for 3 seconds to go back to the clock screen.
- EX. Now the clock is setting from 0:00 to 0:05.**

3-3-7 Perpetual calendar setting



- In perpetual calendar screen, hold pressing the external button for 3 seconds to enter the perpetual calendar fast setting screen.



- EX. We want to change the setting to DiMY (Date/Month/Year).**
- Hold pressing the external button for 3 seconds to move to the digit you want to set.



Note Setting range:
YMD (Year/Month/Date)
MDY (Month/Date/Year)
DiMY (Date/Month/Year)



- Hold pressing the external button for 3 seconds to enter the perpetual calendar (Year) setting screen.
- Hold pressing the external button for 3 seconds to move to the digit you want to set.



- Press the external button to change the setting.
- Note** Setting range: 00-99 (2000-2099)
Setting unit: 1 year.



- EX. We want to change the setting to 05 month.**
- Hold pressing the external button for 3 seconds to move to the digit you want to set.



Note Setting range: 01-12.
Setting unit: 1.



- EX. We want to change the setting to 05 date.**
- Hold pressing the external button for 3 seconds to move to the digit you want to set.



Note Setting range: 01-31 (Automatically adjust according to the current month and year.)
Setting unit: 1.



- Hold pressing the external button for 3 seconds to go back to the perpetual calendar screen.
- EX. Now the date is setting from 01 to 05.**



- Press the controlling box button one time to enter the perpetual calendar (Year) setting screen.
- Press the controlling box button to move to the digit you want to set.



Note Setting range: 00-99 (2000-2099)
Setting unit: 1 year.

3-9 Setting screen instruction



- In setting screen, you could press the external button or controlling box button to enter the setting. The setting screen is in order as below: perpetual calendar, clock, setting unit (Speed & Temperature), brightness, fire circumference and sensing point, speeding warning, RPM range, RPM shift light, over temperature (water), over temperature (oil), low temperature warning (air), fuel gauge and insufficient warning, low volt warning, 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 controlling box button for 3 seconds to go back to the main screen.



4 Entering setting screen



- Hold pressing the external button + controlling box button for 3 seconds to enter the setting screen.



- Hold pressing the external button for 3 seconds to enter the perpetual calendar setting screen.



- 4-1 Perpetual calendar setting**
- Hold pressing the external button for 3 seconds to enter the perpetual calendar setting screen.



- EX. We want to change the setting to DiMY (Date/Month/Year).**
- Press the external button to change the setting.



Note Setting range:
YMD (Year/Month/Date)
MDY (Month/Date/Year)
DiMY (Date/Month/Year)



- Press the controlling box button one time to enter the perpetual calendar (Year) setting screen.
- Press the controlling box button to move to the digit you want to set.



- Press the external button to change the setting.
- Note** Setting range: 00-99 (2000-2099)
Setting unit: 1 year.

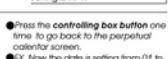
- EX. We want to change the setting to 05 month.**
- Press the controlling box button one time to enter the month setting screen.
- Press the external button to change the setting.



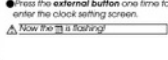
- EX. We want to change the setting to 06 date.**
- Press the controlling box button one time to enter the date setting screen.
- Press the external button to change the setting.



- EX. Now the month is setting from 03 to 05.**
- Note** Setting range: 1-31 (Automatically adjust according to the current month and year.)
Setting unit: 1.



- Press the controlling box button one time to go back to the perpetual calendar screen.
- EX. Now the date is setting from 01 to 05.**



- Press the external button one time to enter the clock setting screen.
- ⚠ Now the is a flashing!

4-2 The clock setting



● Hold pressing the external button for 3 seconds to enter the clock setting screen.

▲ Now the "Clock" flashing!



● EX. We would like to set the clock at 0:00.

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



● Press the external button to change the setting.

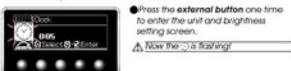


Note This is a 24 hr clock.



● Press the external box button one time to go back to the clock screen.

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



● Press the external button one time to enter the unit and brightness setting screen.

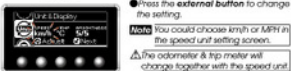
▲ Now the "Clock" flashing!

4-3 The setting speed, temperature and shift setting



● Hold pressing the external button for 3 seconds to enter the speed unit setting screen.

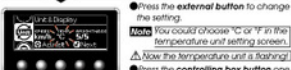
▲ Now the "Speed" flashing!



● Press the external button to change the setting.

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 external button to change the setting.

Note You could choose "C" or "F" in the temperature unit setting screen.

▲ Now the temperature unit is flashing!



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

● Press the external 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 brightness will change immediately after you Right the setting value.



● Press the controlling box button one time to go back to the unit and brightness setting screen.

● EX. The brightness is setting from 5-5 to 3-5.



● Press the external button one time to enter the input pulse setting screen.

▲ Now the "Fire" flashing!



4-4 The fire circumference and sensing point setting

● Hold pressing the external button for 3 seconds to enter the fire circumference and sensing point setting screen.

▲ Now the "Fire" flashing!



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

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

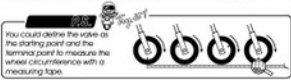
● Press the external button to change the setting.



Note Setting range: 300-2500. Setting unit: per 1%.

CAUTION:

- Please measure the fire circumference (the tire you will install the sensor on) and make sure the number of magnet sensing 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 value at the starting point and the terminal point to measure the wheel circumference with a measuring tape.



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

● Press the controlling box button one time to enter the sensing point setting screen.

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



● Press the external button to change the setting.



Note Setting range: 01P-20P. Setting unit: 01P.

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



● Press the controlling box button one time to go back to the fire circumference and sensing point.

● EX. Now the sensing point is setting from 01P to 06P.



● Press the external button one time to enter the speed warning setting screen.

▲ Now the "Speed" flashing!



4-5 Speeding warning setting

● Hold pressing the external button for 3 seconds to enter the speed warning setting screen.

▲ Now the "Speed" flashing!



● EX. We want to change the setting to 80 km/h.

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



● Press the external button to change the setting.



Note Setting range: 30-350 km/h (19-225 MPH). Setting unit: 1 km/h (MPH).

▲ The setting unit will change together with the speed unit setting (4-3).



● Press the external button one time to go back to the speed warning setting screen.

● EX. Now the speed warning setting is changed from 60 km/h to 80 km/h.



● Press the external button one time to enter the RPM input pulse setting screen.

▲ Now the "RPM" flashing!



The speed warning will flashing when the speed reached your setting.



4-6 The RPM input signal setting

● Hold pressing the external button for 3 seconds to enter the RPM input pulse setting screen.

▲ Now the "RPM" flashing!



● EX. We want to connect the RPM signal wire to the pick-up signal and there are 13 wires that signal per turn.

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



Note Setting range: 0.5, 1-24.



● EX. We want to change the setting to Lo.

▲ Press the controlling box button one time to enter the waveform setting screen.

● Press the external button to change the setting.



Note We define the RPM input pulse as Hi (the positive pulse) & Lo (the negative pulse).

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

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

● EX. If the RPM range is setting 0-16000 RPM.

● Press the controlling box button one time to enter the RPM range setting screen.

● Press the external button to change the setting.



Note Setting range: 0-20,000. 16,000 RPM.



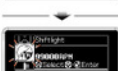
● Press the controlling box button one time to go back to the RPM input pulse setting screen.

● EX. Now the RPM range setting is changed from a 12,000 RPM to 16,000 RPM.



● Press the external button one time to enter the RPM shift setting screen.

▲ Now the "RPM" flashing!



4-7 Shift setting

● Hold pressing the external button for 3 seconds to enter the shift setting screen.

▲ Now the "Shift" flashing!

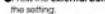


● EX. We would like to set the shift at 9,800 RPM.

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

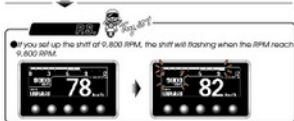


● Press the external button to change the setting.



Note Setting range: 1000-20,000 RPM. Setting unit: 100 RPM.

Setting digit: remove thousand ten thousand digit + hundred digit + hundred digit.



● If you set up the shift at 9,800 RPM, the shift will flashing when the RPM reach 9,800 RPM.



- Press the **controlling box button** one time to go back to the shift setting screen.
- EX. The shift is setting from 9,000 to 9,800 RPM.



- Press the **external button** one time to enter the temperature warning (water temp.) setting screen.
- ▲ Now the **W** is flashing!

4-8 Temperature warning (water temp.) setting



- Hold pressing the **external button** for 3 seconds to enter the temperature warning (water temp.) setting screen.
- ▲ Now the **W** is flashing!



- EX. The water temperature warning set on 95°C.
- Press the **controlling box button** to move to the digit you want to set.



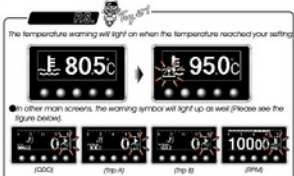
- Press the **external button** to change the setting.
- Note Setting range: 50~250°C (140~482°F)
Setting unit: 1°C (1°F)



- Press the **controlling box button** one time to go back to the temperature warning (water temp.) setting screen.
- EX. Now the temperature warning (water temp.) is setting from 90°C to 95°C.



- Press the **external button** one time to enter the temperature warning (oil temp.) setting screen.
- ▲ Now the **W** is flashing!



The temperature warning will light on when the temperature reached your setting



● In other main screens, the warning symbol will light up as well (Please see the figure below).

4-9 Temperature warning (oil temp.) setting

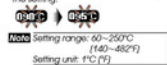


- Hold pressing the **external button** for 3 seconds to enter the temperature warning (oil temp.) setting screen.
- ▲ Now the **W** is flashing!



- EX. The water temperature warning set on 95°C.

- Press the **controlling box button** to move to the digit you want to set.



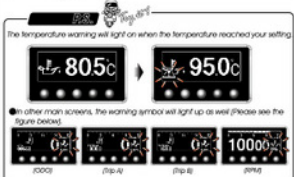
- Press the **external button** to change the setting.
- Note Setting range: 50~250°C (140~482°F)
Setting unit: 1°C (1°F)



- Press the **controlling box button** one time to go back to the temperature warning (oil temp.) setting screen.
- EX. Now the temperature warning (oil temp.) is setting from 90°C to 95°C.



- Press the **external button** one time to enter the low temperature warning (oil temp.) setting screen.
- ▲ Now the **W** is flashing!



The temperature warning will light on when the temperature reached your setting



● In other main screens, the warning symbol will light up as well (Please see the figure below).



- Hold pressing the **external button** for 3 seconds to enter the low temp. warning (oil temp.) setting screen.
- ▲ Now the **W** is flashing!



- EX. We want to change the setting to 10°C.

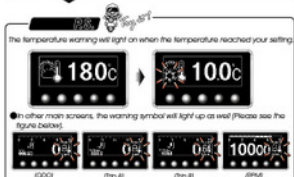
- Press the **external button** to change the setting.
- Note Setting range: 10~20°C (40~68°F)
Setting unit: 1°C (1°F)



- Press the **controlling box button** one time to go back to the low temperature warning (oil temp.) setting screen.
- EX. Now the low temperature warning (oil temp.) is setting from 0°C to 10°C.



- Press the **external button** one time to enter the fuel gauge resistance setting screen.
- ▲ Now the **W** is flashing!



The temperature warning will light on when the temperature reached your setting



● In other main screens, the warning symbol will light up as well (Please see the figure below).

4-11 Fuel gauge resistance setting



- Hold pressing the **external button** for 3 seconds to enter the fuel gauge resistance setting screen.
- ▲ Now the **W** is flashing!



- EX. The fuel gauge need to be set to 5100.
- Press the **external button** to change the setting.

Note The fuel gauge resistance setting range: 1000, 2500, 5100, 12000, 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 (-).



- EX. We want to change the setting to 316.
- Press the **controlling box button** one time to enter the low fuel gauge warning setting screen.
- Press the **external button** to change the setting.



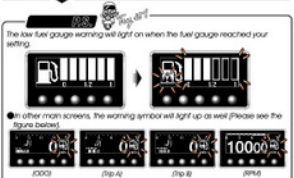
- EX. The setting is changed from 1000 to 5100.
- Note Setting range: 0~3
Setting unit: 1



- Press the **controlling box button** one time to enter to go back to the fuel gauge resistance setting screen.
- EX. The setting is changed from 16 to 316.



- Press the **external button** one time to enter the low volt warning setting screen.
- ▲ Now the **W** is flashing!



The low fuel gauge warning will light on when the fuel gauge reached your setting



● In other main screens, the warning symbol will light up as well (Please see the figure below).

4-12 Low volt warning setting



- Hold pressing the **external button** for 3 seconds to enter the low volt warning setting screen.
- ▲ Now the **W** is flashing!



- EX. We want to change the setting to 10.5 V.
- Press the **controlling box button** to move to the digit you want to set.



- Press the **external button** to change the setting.
- Note Setting range: 6.0~16.0 V
Setting unit: 0.1 V

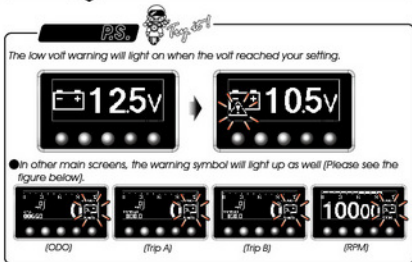


- Press the **controlling box button** one time to go back to the low volt warning setting screen.
- EX. Now the low volt warning is setting from 11.5 V to 10.5 V.



- Press the **external button** one time to enter the internal odometer display & external odometer setting screen.

▲ Now the is flashing!



The low volt warning will light on when the volt reached your setting.

- In other main screens, the warning symbol will light up as well (Please see the figure below).

4-13 Internal odometer display & external odometer setting



- Hold pressing the **external button** for **3 seconds** to enter the odometer setting screen.

▲ Now the is flashing!



- EX. We would like to set the external odometer to **15000 km**.
- Press the **controlling box button** to move to the digit you want to set.



- Press the **external button** to change the setting.



Note Setting range: 00000~99999
km (mile)
Setting unit: 1 km (mile)



- Press the **controlling box button** one time to go back to the internal odometer display & external odometer setting screen.
- EX. The external odometer setting is changed from 0 to 5000 km.



- Press the **external button** for **3 seconds** to go back to the main screen.

▲ Now the 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
The meter doesn't work when the power is on.	<ul style="list-style-type: none"> ● The power doesn't supply to the meter. <ul style="list-style-type: none"> → Please make sure the wiring is connected 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.	<ul style="list-style-type: none"> ● Please check the voltage of your battery, and make sure the voltage is over DC 12V.
Speed does not appear or appear incorrectly.	<ul style="list-style-type: none"> ● Please make sure the speed sensor is connected correctly. ● Please check the tire-size setting. <ul style="list-style-type: none"> → Please refer to the manual 4-4.
Tachometer does not appear or appear incorrectly.	<ul style="list-style-type: none"> ● 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. <ul style="list-style-type: none"> → Please refer to the manual 4-6.
Temp does not appear or appear incorrectly.	<ul style="list-style-type: none"> ● Please check the sensor. <ul style="list-style-type: none"> → Does the wiring break or falling off?
Fuel gauge does not appear or appear incorrectly.	<ul style="list-style-type: none"> ● Please check your fuel tank. <ul style="list-style-type: none"> → Is there any fuel inside? ● Please check the wiring. <ul style="list-style-type: none"> → Do you connect the wiring correctly? ● Please check the setting. <ul style="list-style-type: none"> → Please refer to the manual 4-11.
The clock is incorrect.	<ul style="list-style-type: none"> ● Do you connect the wiring correctly. <ul style="list-style-type: none"> → 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.