







Thank you for purchasing KOSO RX2NR, before operating the unit, please read the instruction thoroughly and retain it for the future reference

A Notice

- 1. Power supply: battery (9V-1604, 6LR61.) 12 Volts DC
- 2. For Installation, please follow the steps described in manual. Any damage caused by wrong installation shall be imputed to the users.
- 3. Don't break or modify the wire terminal. To avoid the short circuit, please don't pull the wire when installing.
- 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.

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

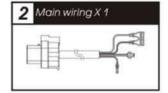
A WARNING! Some processes must be followed to avoid damages to yourself or the public.

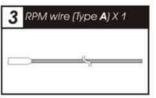


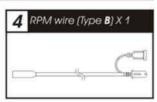


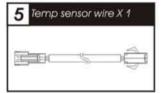
1-1 Accessory



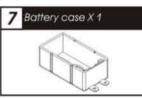








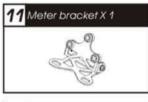






















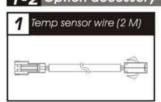


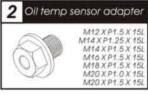


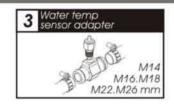


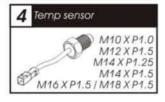
NOTE Please contact the local distributor if the Items you open are not the same, with the above-listed one.

1-2 Option accessory

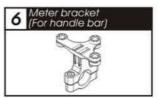




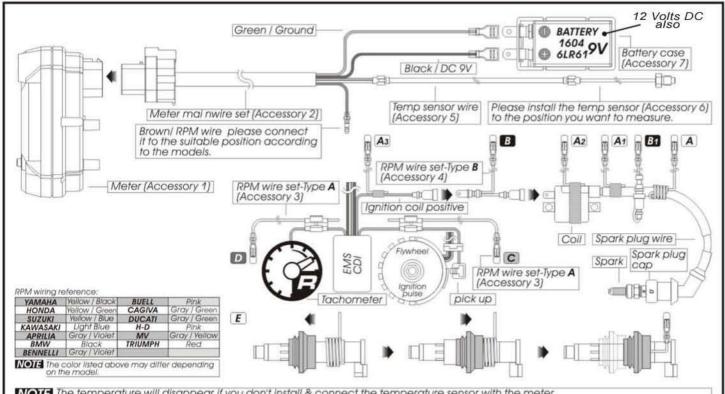








2-1 Wiring installation instructions



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

⚠ The RPM wire installation

A. Please wrap the RPM wire at least 5 times around the spark plug.

A1. Please use tape to fix the RPM (Type A) wire onto the spark plug wire.

A2. Please use tape to fix the RPM wire (Type A) on the spark plug cap.

A3. Please use tape to fix the RPM wire (Type A) on the coil positive pole wire. For some models with the coil negative wire, please tape the RPM wire (Type A) on the negative wire to get the RPM signal. (For example, the YAMAHA V-max 1200)

B. Please connect the RPM wire (Type B) to connect to the ignition coil positive pole.

B1. Please wrap the RPM wire (type B) on the spark plug wire by connecting the male and female connector.

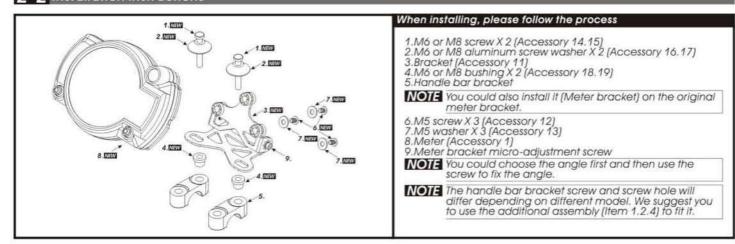
C. Please connect the RPM wire (Type A) to the pick up.
D. Please parallel the RPM wire (Type A) with the original tachometer signal wire (This method is available only when the original speedometer comes with a tachometer on it. You could get the RPM wire information from the service manual of your bikes.)
E. For the models comes with the new ignition coil, please wrap the RPM wire (Type A) at least 5 times around the spark plug as the

above drawing.

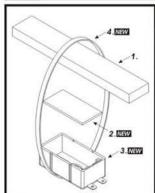
For multi-ignition models, we will suggest you to get the signal on the first ignition.

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.

2-2 Installation instructions



2-3 The instruction of battery box fix to the bike frame 2-4 The instruction of battery box fix to the bike case



When installing, please follow the process

- Bike Frame.
- Please put the foam on the top of the battery box.
- Battery box put the battery box on
- sponge. Belt tie the battery box to the bike frame via belt.

4.NEW 2. WaW

When installing, please follow the process

- 1. Bike case drill two hole (3 X 10 mm) on the bike case.
- 2. Please put the foam on the top of
- the battery box. 3. Battery box put the battery box on
- 4. Belt tie the battery box to the bike frame via belt.

3-1 Overview

Tachometer (16,000 RPM) Display range: 0~16,000 RPM.

Over heat warning light
Setting range: 60~150°C (140~302°F)
Setting unit: 1°C (1°F). 2000



The RPM shift light

Setting range:5,000~16,000 RPM. Setting unit:100 RPM.

Pre-shift light

- Setting range: -500~-5,000 RPM.
- Setting unit: 100 RPM.





Thermometer

Display range: 0~150°C (32~302°F).
 Display unit: 1°C (1°F).

The Digital tachometer

Display range:0~16,000 RPM.Display range:100 RPM.

3-2 Function, setting instruction

Needle tachometer Display range: 0~16,000 RPM Digital tachometer Display range: 0~16,000 RPM Display unit: 100 RPM ODIsplay internal < 0.5 second Shift light Setting range: 5,000~16,000 RPM Setting unit: 100 RPM OPre-Shift light Setting range: -500 ~- 5,000 RPM Setting unit: 100 RPM OStroke / piston setting 2 Stroke: 1, 2, 3, 4 pistons

Thermometer Display range: 0~150°C (0~302°F)

Display unit: 0.1°C (0.1°F) ODisplay internal < 0.5 second

Over heat warning light Setting range: 60~150°C (140~302°F)

Setting unit: 1°C (1°F)

9V-1604, 6LR61 Battery type

●Effective temperature range -10~+60°C

Meter standard JIS D 0203 S2

Meter size 135.7 X 100.7 X 52 mm

Meter weight Around 240 g

NOTE Design and specification are subject to change without notice!

4-1 Adjust button function instruction



 Press Adjust button one time to switch the temperature unit between °C and °F.





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

4-2 Cycle / Piston / Input signal setting



In the main screen, press down the Select & Adjust button together for 3 seconds to enter the setting screen.



- Press the Select button to enter the piston setting screen.
- EX. Now the setting is changed from 2 cycle to 4 cycle.



- EX. To change the setting to 4 stroke.
- Press the **Adjust button** to select the stroke. **E**X. Now the setting is 2C (2 Stroke).

NOTE You could set the stroke as 2 stroke or 4

↑ The digit you could set is flashing now.

A CAUTION!

- ●Make sure the correct strokes and pistons before setting ●Make sure the input is correct, or the RPM output will be
- Make sure the input is correct, or the krivi daput white incorrect.
 Whe define the engine with the ignilion system igniles every 360 degree as 2-stroke and the engine with the ignilion system igniles every 720 degree as 4-stroke.

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



- EX. To change the setting to 4piston.
- Press the Adjust button to select the piston digit.

 EX. Now the setting is 1P (1 piston).

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

↑ The digit you could set is flashing now.



KE O H. Rcb Press the Select button to enter the signal input setting screen.

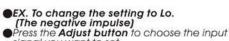
Now the piston setting is changed from 1 P (Piston) to 4 P (Pistons)



08580r

Press the Adjust button to change the setting digit.

NOTE Setting range: -500~-5,000 RPM. Setting unit: 100 RPM.



signal you want to set.

EX. Now the setting is Hi (The positive impulse)

NOTE The input signal setting range is between hight (The positive signal) & low (The negative signal)

∧ Now the input signal setting is flashing!

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.

Press the Select button to enter the shift light setting screen

EX. Now the input signal is changed from hight to low.



Press the Select button to enter the over heat warning light setting screen.

EX. Now the pre-shift light setting is changed

from 1,000 RPM to 1,500 RPM.



The temperature light

temperature reached your

will light on when the

setting.

EX. The over heat warning set on 105°C. Press the **Select button** to move to the digit you want to set.

EX. Now the over heat warning setting is 100.0°C





09000r

V3000

EX. The shift light set on 9,500 RPM.

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

DEX. Now the RPM shift light setting is 9,000 RPM.



↑ The digit you could set is flashing now.



ht (-1.500 RPM) If you set the RPM shift light at 9,500 RPM, the yellow light (Pre-shift light) will light on at 8,000 RPM.

And the red light (Shift light) will light on when it reaches 9,500 RPM.



Press the Adjust button to change the setting digit

NOTE Setting range: 5,000~16,000 RPM • Setting unit:100 RPM •



Press the Select button to enter the pre-shift

light setting screen.

EX. Now the shift light setting is changed from 9,000 RPM to 9,500 RPM.



Press the Select button to back the main.

Press the Adjust button to change the setting

NOTE Setting range: 60~150°C (140~302°F) Setting unit: 1°C (1°F). ↑ The digit you could set is flashing now. ↑ The setting unit will change together with the

temperature unit setting.

■EX. Now the setting is changed from 100°C to 105°C.



Main screen.

digit.



●EX. The pre-shift RPM set on 8,000 RPM. (It means that the pre-shift light will light on **1,500 RPM** before the shift light.)

Press the Select button to move to the digit vou want to set

●EX. Now the RPM pre-shift light setting is -1,000



5 Trouble shooting

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

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

Check item

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 9 V) to make the meter work Please check the voltage of your

The meter shows wrong information.

Tachometer does not appear or appear incorrectly.

battery, and make sure the voltage is over DC 9 V. Please check the RPM sensor wiring is connected correctly.

or appear incorrectly.

Check item

 Please check the spark plug is R type or not. If not, please replace the spark plug with the R type spark plug.

Please check your setting

→Please refer to the manual 4-2.

Temp does not appear Please check the sensor.

→Does the wiring break or falling off?