



# INSTRUCTION



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

## Notice

1. Power supply: battery (9V~12V)
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.

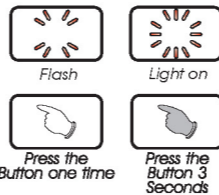
## MARK MEANING:

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

**△** 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> Meter X 1	<b>2</b> Main wiring X 1	<b>3</b> RPM wire (Type A) X 1	<b>4</b> RPM wire (Type B) X 1
<b>5</b> Temp sensor wire X 1	<b>6</b> Power Cable X 1	<b>7</b> PT 1/8 water temp sensor X 1	<b>8</b> Battery case X 1
<b>9</b> 3 mm spanner X 1	<b>10</b> Meter bracket X 1	<b>11</b> M4 screw X 3	<b>12</b> M5 gasket X 3
<b>13</b> M6 X 35L screw X 2	<b>14</b> M8 X 30L screw X 2	<b>15</b> M6 screw X 2	<b>16</b> M8 screw X 2
<b>17</b> M6 gasket X 2	<b>18</b> M8 gasket X 2	<b>19</b> Ground wire X 1	<b>20</b> Mid-way connect X 2
<b>21</b> Bind X 1			

**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> Temp sensor wire (2 M)	<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
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**5** Cylinder head temp sensor  
M10.  
M14 mm

**6** Meter bracket (For handle bar)

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

## 2-1 Wiring Installation Instructions

**CAUTION!**  
This product has two installation methods to install the power supply, please choose the most suitable one for your installation.  
1. If Battery Case Installation is chosen, then cross connect 1000mm ground wire will be needed.  
2. If Power Cable Installation is chosen, please connect the Power Cable to vehicle power supply.

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

**△** The RPM wire installation  
A. 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.  
C. Please connect the RPM wire (Type A) to the pick up.

YAMAHA	Yellow / Black	BUELL	Pink
HONDA	Yellow / Green	CAGIVA	Gray / Green
SUZUKI	Yellow / Blue	DUCATI	Gray / Green
KAWASAKI	Light Blue	H-D	Pink
APRILIA	Gray / Violet	MV	Gray / Yellow
BMW	Black	TRIUMPH	Red
BENELLI	Gray / Violet		

**NOTE** The color listed above may differ depending on the model.

## 2-2 Installation instructions

**When installing, please follow the process**

1. M6 or M8 screw X 2 (Accessory 13.14)
2. M6 or M8 aluminum screw washer X 2 (Accessory 15.16)
3. Bracket (Accessory 10)
4. M6 or M8 bushing X 2 (Accessory 17.18)
5. Handle bar bracket

**NOTE** You could also install it (Meter bracket) on the original meter bracket.

6. M4 screw X 3 (Accessory 11)
7. M5 washer X 3 (Accessory 12)
8. Meter (Accessory 1)
9. Meter bracket micro-adjustment screw

**NOTE** You could choose the angle first and then use the screw to fix the angle.

**NOTE** The handle bar bracket screw and screw hole will differ depending on different model. We suggest you to use the additional assembly (item 1.2.4) to fit it.

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

**When installing, please follow the process**

1. The position you would like to fix the battery box.
2. Battery Box
3. Use the cable tie to fix battery box on bike.

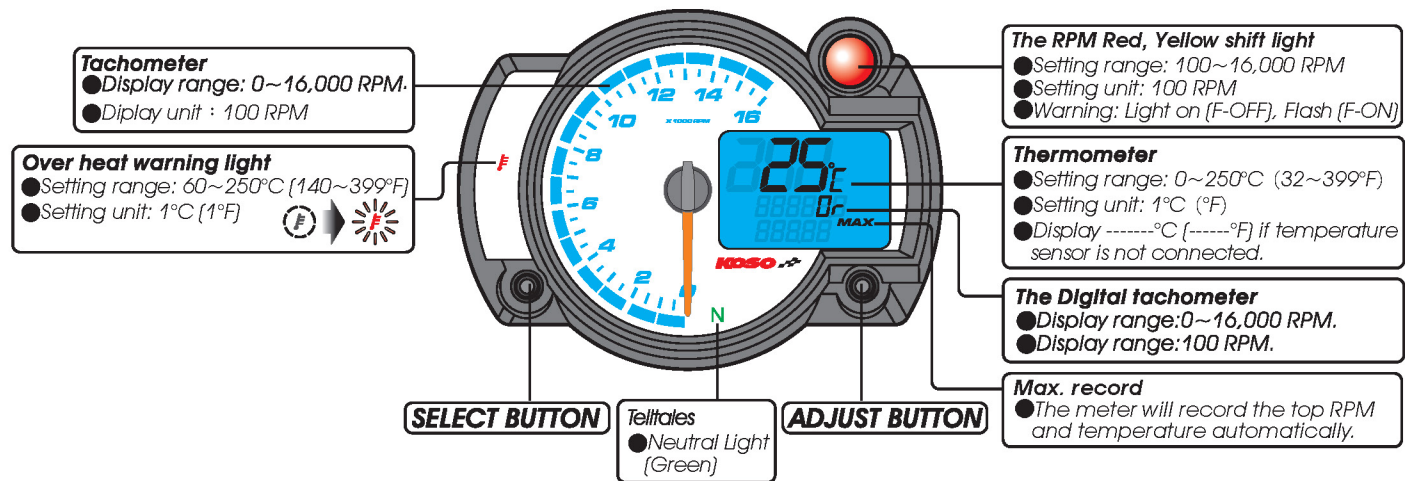
## 2-4 The instruction of battery box fix to the bike case

**When installing, please follow the process**

1. Drill 2 holes (3 x 10mm) on the position you would like to fix battery box on.
2. use cable tie pass through two hole you just drill.
3. Fix the battery box on bike by cable tie.



### 3-1 Overview



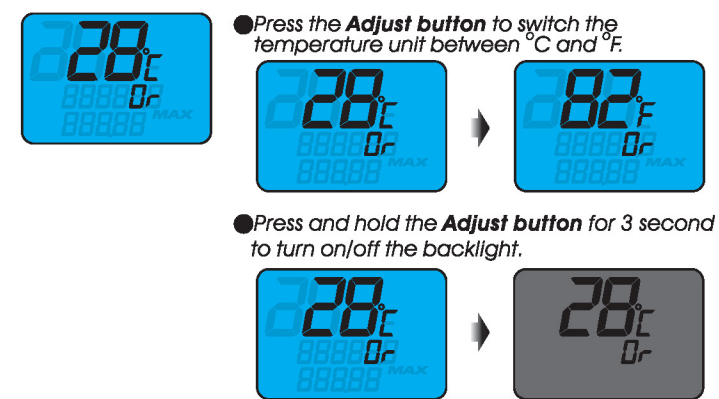
### 3-2 Function setting instruction

●Tachometer	Display range: 0~16,000 RPM	○Display internal	<0.5 second
●Digital tachometer	Setting range 0~16,000 RPM Setting unit: 100 RPM	○Over heat warning light	Setting range: 60~250°C (140~399°F) Setting unit: 1°C (°F)
○Display internal	<0.5 second	○TOP temperature record	Setting range: 0~250°C (32~399°F)
○Shift light (Red)	Setting range: 100~16,000 RPM Setting unit: 100 RPM	●Backlight color	Blue
○Shift light (Yellow)	Setting range: 100~16,000 RPM Setting unit: 100 RPM	●Battery type	9V-12V
○Max. RPM record	Display range: 0~16,000 RPM	●Effective temperature range	-10~+60°C
○Piston setting	Setting range: P-0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6	●Meter standard	JIS D 0203 S2
○The RPM input pulse	Setting range: Hi (The positive wave pulse) Lo (The negative wave pulse)	●Meter size	135.7 X 100.7 X 52 mm
●Thermometer	Setting range: 0~250°C (32~399°F) Setting unit: 1°C (°F)	●Meter weight	Around 240 g
		●Telltales	Neutral light (Green) Over heat warning light (Red) RPM shift light (Red, Yellow)

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

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

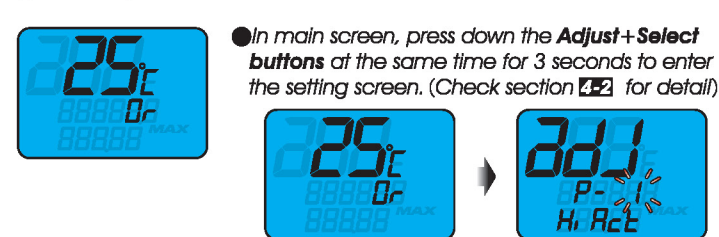
#### 4-1-1 Adjust button function instruction



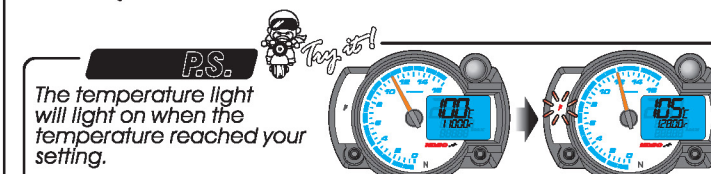
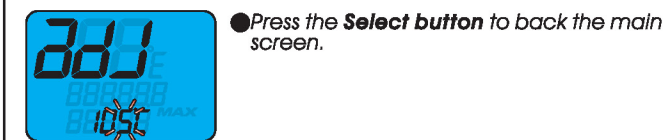
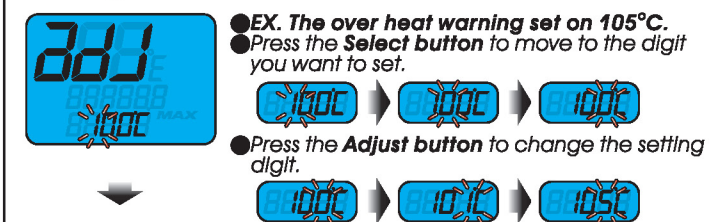
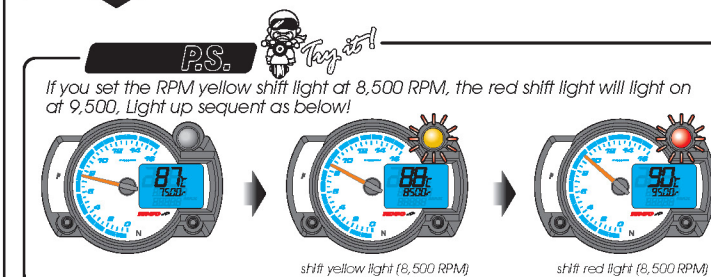
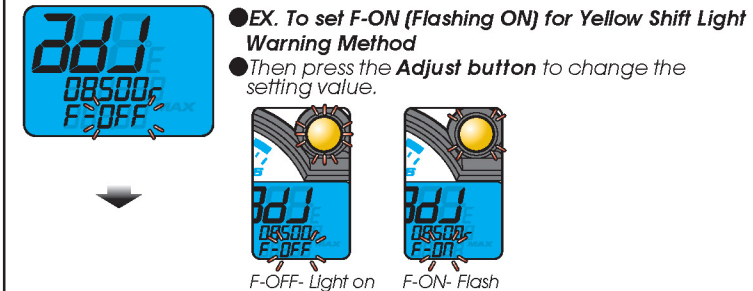
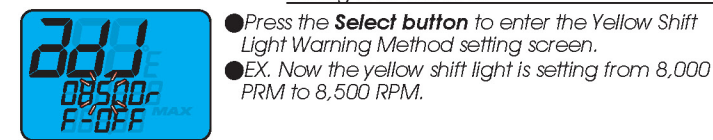
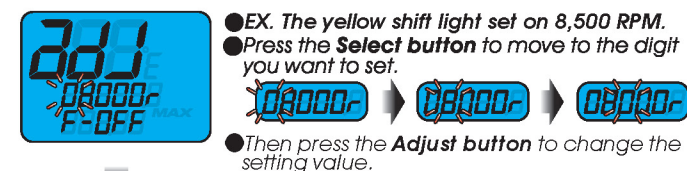
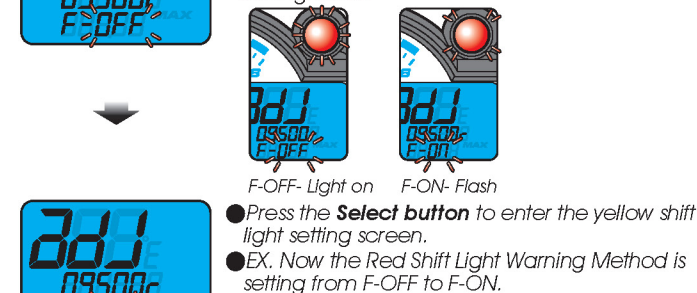
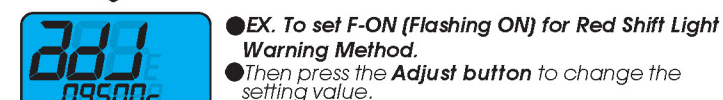
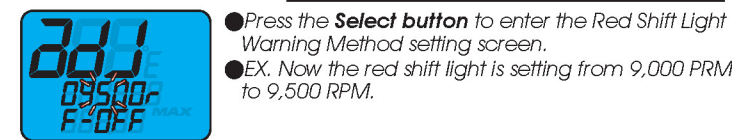
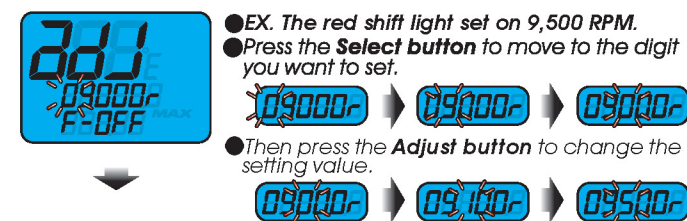
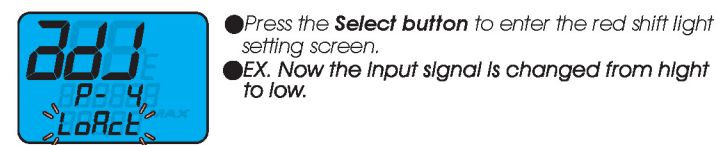
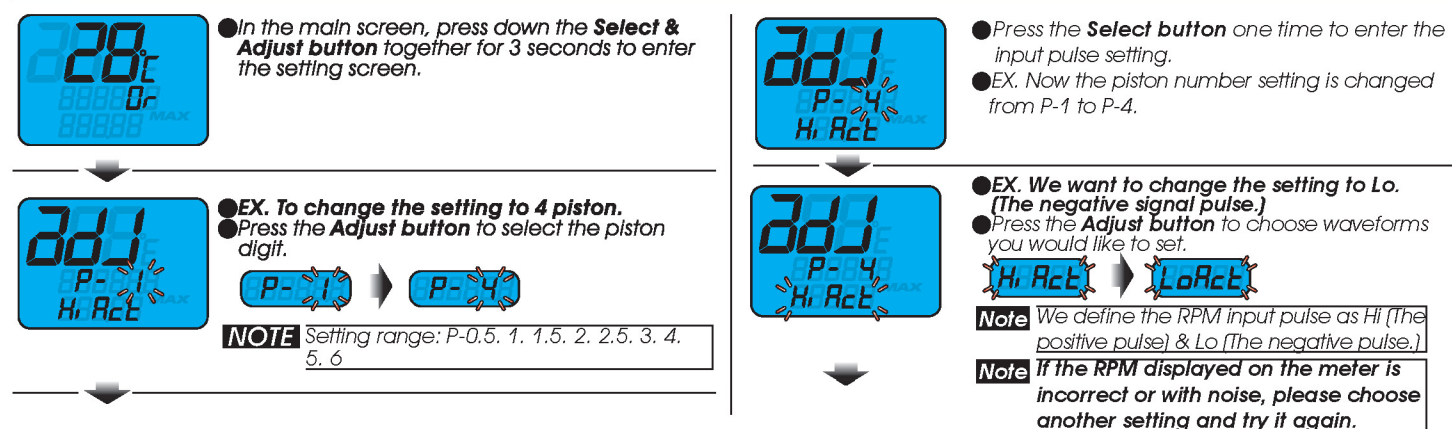
#### 4-1-2 Select button function instruction



#### 4-1-3 Adjust+Select button function instruction



### 4-2 Function setting instruction



### 5 Trouble shooting

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

Trouble	Check item	Trouble	Check item
The meter doesn't work when the power is on.	●The power doesn't supply to the meter. →Please make sure the wiring is connected. The wiring and fuse are not broken. →The battery is broken or the battery is too old to supply enough power (DC 9 V) to make the meter work.	Temp does not appear or appear incorrectly.	●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. ●Please check the sensor. →Does the wiring break or falling off?
The meter shows wrong information.  Tachometer does not appear or appear incorrectly.	●Please check the voltage of your battery, and make sure the voltage is over DC 9 V. ●Please check the RPM sensor wiring is connected correctly.		

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