







BA015B15







#### INTRODUCTION



Thank you for purchasing KOSO RX2N GP style meter, before operating the unit, please read the instruction thoroughly and retain it for the future reference.

#### Notice

- 1. The lcd meter is apply for DC 12V.
- 2. For installation, please follow the steps described in manual. Any damage caused by wrong installation shall be imputed to the users.
- 3. 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.



Press the button one time



Press down the button for 3 seconds

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Me recommend that you finish the relative setting before operating to assure the operation of meter.





# 3-1 Auto-checking screen



Off



Check 5





Check 6



Check 2



Check 7



Check 3



Check 8



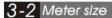
Check 4

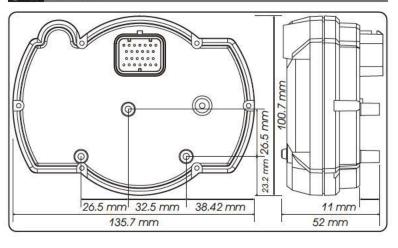


On

NOTE It will enter the setting screen automatically when the first time you start it.

# RX20 688





# 3-3 Overview

The max RPM recall Indicator light

The indicator light will move

according to the current RPM. The max RPM indicator light will show you the max RPM you reach and light on for 3 seconds.

Tachometer (10,000 RPM) Display unit: 250 RPM. Tachometer (20,000 RPM)

Display unit: 500 RPM.



Tachometer (10,000 RPM)

Display range: 0~10,000 RPM.Display unit: 250 RPM.

Tachometer (20,000 RPM)

●Display range: 0~20,000 RPM.

Display unit: 500 RPM.

Clock **●24H** 



Dialtal thermometer (Water & oll temperature)

Olsplay range: 0~250°C (32~482°F)

Display unit: 0.1°C (°F)





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Speeding warning light

Setting range: 30~360 km/h (20~225 MPH).

Setting unit: 1 km/h (MPH).

>Regarding the setting,

please check 5-1. Over heat warning light

(Water & oll temperature) Setting range: 60~250°C

(140~482°F). Setting unit: 1°C (°F).

>Regarding the setting, please check 5-3.5-4.









Indicators lights

Turn signal light (Green) High beam light (Blue)

Neutral light (Green)

●EOBD light (Amber)

Engine oil pressure light(Red) =

Odo meter



Display range: 0~99999.9 km (mile), reset automatically after 99999.9 km.

Display unit: 0.1 km (mile).

Trip meter A.B.

 Display range: 0~999.9 km (mile), reset automatically after 999 9 km

Display unit: 0.1 km (mile).





The RPM shift light (10,000 RPM)

Setting range: 1,000~10,000 RPM. Setting unit: 100 RPM.

The RPM shift light (20,000 RPM)
Setting range: 1,000~20,000 RPM.

Setting unit: 100 RPM.

Pre-Shift light

Setting range: -500~-3,000 RPM before the shift light.

Setting unit: 100 RPM.

>Regarding the setting, please check 5-2.



Max. record

The meter will record the top speed, RPM and temperature automatically.



Speedometer

Display range: 0~360 km/h (0~225 MPH)

Display unit: km/h & MPH for alternative.

>Regarding the setting, please check 4-4.





Fuel meter

Display range: 10 levels.

Setting range:  $100 \Omega$ ,  $510 \Omega$ , fuel switch, no display.

Fuel warning

Setting range: 10~50 % Setting unit: 10 %

> Regarding the setting, please check 5-8

Level thermometer (Water & oil temperature)

• Display range: 20~120°C (68~248°F), 10 levels

Display unit: Each level represents 10°C (50°F)







Speedometer	Display range: 0~360 km/h (0~225 MPH)	Over heat warning light Setting range: 60~250°C (140~482°F) (Water & oil temperature) Setting unit: 1°C (°F)	
	Display unit: km/h & MPH for alternative		
ODIsplay Internal	< 0.5 second	○Top temperature record	Display range: 0~250°C (32~482°F)
Odometer	Display range: 0~99999.9 km (mile),	•Fuel meter	Display range: 10 levels
Trip motor A/D	reset automatically after 99999.9 km (mile). Display range: 0~999.9 km (mile),		Display unit: Each level represents 10 %
Trip meter A/B	reset automatically after 999.9 km (mile)	Ologufficient fuel warning	Setting range: $100 \Omega$ , $510 \Omega$ , fuel switch, no display
Chaodina warnina liaht		○Insufficient fuel warning Setting range: 10~50 %	
speeding warning light	Setting range: 30~360 km/h (20~225 MPH) Setting unit: 1 km/h (MPH)	<b>●</b> Clock	Setting unit: 10 %
Top speed record	Display range: 0~360 km/h (0~225 MPH)	Perpetual calendar	24 H
Tire circumference	Setting range: 300~2,500 mm	• Target speed timer	Setting range: 2,000~2,099 A. D Setting range: 30~360 km/h (20~225 MPH)
one cucumerence	Setting unit: 1 mm • Sensitive point: 1~60 Points	• raigerspeed inner	Setting unit: 5 km/h (MPH)
Tachometer	Display range: 0~10,000 / 20,000 RPM	●Target distance timer	Setting range: 1/32~20/32 mile (50~1,000 M)
	Display unit: 250 / 500 RPM	POTT ACCUSE \$ 10 <sup>th</sup> Anniboration Contains an information the Anniboration	Setting unit: 1/32 mile (50 M)
Display Internal	< 0.5 second	●Top speedtimer	The record including,
Shift light	Setting range: 1,000~10,000 / 20,000 RPM	5050 97 WWW	1.Speed: 0~360 km/h (0~225 MPH)
	Setting unit: 100 RPM		2.Distance: 0~999 M (0~3,280 feet)
Pre-shift light	Setting range: -500~-3,000 RPM before the		3.RPM: 0~10,000 / 20,000RPM
	shift light		4.Timer: 0~9'59"99 second.
	Setting unit: 100 RPM	●Effective voltage	DC 12 V
Max. RPM record	Display range: 0~10,000 / 20,000 RPM	●Effective temperature	range -10~+60°C
ORPM input pulse	Setting range: 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6.	Meter standard	JIS D 0203 \$2
■Thermometer	Display unit: °C & °F for alternative	●Meter size	135.7 X 100.7 X 52 mm
Digital thermometer	Display range: 0~250°C (32~482°F)	Meter weight	Around 240 g
(Water & oll temperatur	e) Display unit: 0.1°C (°F)	●Indicator light color	Neutral-green, High beam-blue,
Level thermometer	Display range: 20~120°C (68~248°F), 10 levels		Turn signal-green, EOBD-amber, Oll-red,
(Water & oil temperatur	e) Display unit: Each level represents 10°C (50°F)		Speeding-red, RPM shift light yellow / red.
ODIsplay Internal	< 0.5 second	NOTE Design and speci	fication are subject to change without notice!

#### 4-1 The button function instruction

#### Select button

- In main screen, press the Select button to choose the display of clock, water temperature or oil temperature.
- 2. In power test screen, press the Select button to choose the function you want to use
- In setting screen, press the Select button to choose the function youwant to set.

#### Select button X 3 seconds

- 1.When the temperature is in the main screen, you could press down the "Select" button for 3 seconds to switch the temperature unit.
- 2.In power test screen, press down the Select button for 3 seconds to backto the main screen.
- 3.In setting screen, press down the Select button for 3 seconds to back to the main screen.



#### Adjust button

- 1.1n main screen, press the Adjust button to choose the display of odometer, trip A, trip B or the Max. record.
- 2.In power test screen, press the Adjust button to reset the record, stop the testing, or restart the test.
- 3.In setting screen, press the Adjust button to make the setting. If you keep pressing down the Adjust button the setting number will increase fast.

# Adjust button X 3 seconds

In main screen, press down the Adjust button for 3 seconds to reset the trip A, trip B, or the Max. Record.

#### Press down the Adjust button

In setting screen, to add the setting value fast.

#### Select & Adjust X 3 seconds

In main screen, press down the Select & Adjust buttons at the same time for 3 seconds to enter the setting screen.



▲ CAUTION! For safety reason - you could adjust the setting or operate the function only when the blke is stop.

# RX2D DIB

#### 4-2 The screen switch instruction



In the setting screen, press down the **Select** button for 3 seconds to back to the main screen.

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

In main screen, press the Select & Adjust button one time to enter the power test screen.

In power test screen, press down the Select button for 3 seconds to back to the main screen.



In any screen, you could press down the Select buttons for 3 seconds to back to the main screen.

#### 4-3 Select button function instruction



In main screen, press the Select button to choose the function combination you want to display on the screen.

The alternative combination is as the circle we list: clock+fuel gauge → water temperature+fuel gauge → water temperature+oil temperature level gauge → oil temperature+water temperature level gauge → clock+fuel gauge.

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

•When the temperature Is In the main screen, you could press down the "Select" button for 3 seconds to switch the temperature unit.



#### 4-4 Adjust button function instruction



In ODO function, press the Adjust button one time to switch to the trip A function.

- In trip A screen, press the Adjust button one time to switch to the trip B function.
- Press down the Adjust button for 3 seconds to reset the tripA.



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- In trip B screen, press the Adjust button one time to switch to the Max. record function.
- Press down the Adjust button for 3 seconds to reset the trip B.



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- In Max. record screen, press the Adjust button one time to switch to the ODO function.
- Press the Select button one time to check the oil temperature record.



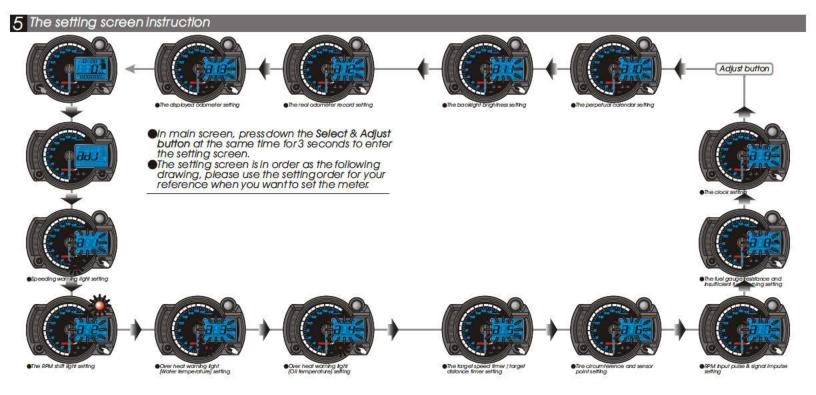
Press down the Adjust button for 3 seconds to reset the Max.record.











**NOTE** If you enter the setting screen for 30 seconds and don't press the button, it will back to the main screen automatically.





# 5-1 Speeding warning light setting





The speeding light will

light on when the speedreaches

your speeding warning setting.

In a 1 screen, press the Select button to enter

the speeding warning light settingscreen.

•EX. Now the speeding warning light setting is 60 km/h.



to 65 km/h. **NOTE** When you leave this screen, the setting is finished.

Press the Select button to return to a 1 setting.

●EX. Now the setting is changed from 60 km/h

Press the Adjust button to select the other setting screens.



If you just want to make this function setting, you could press down the **Select button** for 3 seconds to back to the main screen.

screen.



EX. The speeding warning lightyou want to set is 65 km/h.

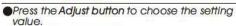
Press the Select button to move to the digit you want to set.



Now the speeding warning light and the setting value is flashing!

**NOTE** The speeding warning light setting range: 30~360km/h (20~225 MPH). Setting unit: 1 km/h (MPH).

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







#### 5-2 The RPM shift light setting

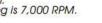




In a 2 screen, press the Select button to enter

the RPM shift light setting screen.

EX. Now the RPM shift light setting is 7,000 RPM.





shift light setting number.





EX. The RPM shift light you want to set is 12,000 RPM.

Press the Adjust button to choose the setting value.



Now the shift light and the setting value is flashing!

**NOTE** The setting range: 1,000~10,000 / 20,000 RPM. Setting unit: 100 RPM.



Press the Select button to enter the pre-shift light setting.

EX. Now the shift light setting is changed from 7,000 RPM to 12,000 RPM.







EX. You want the pre-shift light to light on at 10,500 RPM

The equation is as following, The shift light setting value (12,000 RPM) - The pre-shift light setting value, (X)= 10,500 (The RPM you want the pre-shift light to light on.)

→The setting value of pre-shift light = 1,500. It means that you should set the pre-shift light setting as 1,500.

Press the Adjust button to choose the setting value.



Now the pre-light and the setting number is flashina!

**NOTE** The setting range: -500~-3,000 RPM. Setting unit: 100 RPM.



Press the Select button to return to a 2 setting screen.

EX. Now The pre-shift light setting is changed from 500 RPM to 1,500 RPM.

**NOTE** When you leave this screen, the setting is finished.



## 5-2 The RPM shift light setting



Press the Adjust button to select the other setting screens.

(Z)

If you just want to make this function setting, you could press down the Select button for 3 seconds to back to the main screen.

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# 5-3 Over heat warning light (Water temperature) setting



In a 3 screen, press the Select button to enter the over heat warning light (Water temperature) setting screen.

setting screen.

EX. Now the over heatwarning light (Water temperature) setting is 100.0°C.



The over heat warning light (Water temperature) will flash when the temperature reached your setting.



●EX. You want to set the over-heatwarning light (Water temperature) at 102.0°C.

●Press the Select button to move to the digit



Now the water temperature logo and the setting value are flashing!

**NOTE** The over heat warning light setting range: 60~250°C (140~482°F). Setting unit: 1°C (°F).

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



Next page

Press the Adjust button to choose the setting







## 5-3 Over heat warning light (Water temperature) setting





- Press the Select button to return to a 3 setting screen.
- •EX. Now the setting is changed from 100.0°C to 102.0°C.

**NOTE** When you leave this screen, the setting is finished.

Press the Adjust button to select the other setting screens.



If you just want to make this function setting, you could press down the Select button for 3 seconds to back to the main screen.

#### 5-4 Over heat warning light (Oil temperature) setting



- In a 4 screen, press the Select button to enter the over heat warning light (Oil temperature) setting screen.
- EX. Now the over heatwarning light (Oil temperature) setting is 100.0°C.



The over heat warning light (Oil temperature) will flash when the temperature reached your setting.





- ●EX. You want to set the over-heatwarning light (Oil temperature) at 102.0°C.

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



Now the water temperature logo and the setting value are flashing!

NOTE The over heat warning light setting range: 60~250°C (140~482°F). Setting unit: 1°C (°F).

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

Press the Adjust button to choose the setting value.









#### 5-4 Over heat warning light (Oil temperature) setting





- Press the Select button to return to a 4 setting screen.
- ●EX. Now the setting is changed from 100.0°C to 102.0°C.

**NOTE** When you leave this screen, the setting is finished.

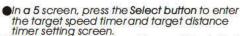
Press the Adjust button to select the other setting screens.



If you just want to make this function setting, you could press down the Select button for 3 seconds to back to the main screen.

5-5 The target speed timer / target distance timer setting





●EX. Now the target speed timer setting is 0~50 km/h and the target distance timer setting is 1/32 mile (50 M).



EX. You want to set the target speed timer setting at 0~110 km/h.

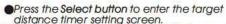
Press the Adjust button to choose the setting value.



♠ Now the target speed value is flashing!

NOTE The target speed timer setting range: 30~360 km/h (20~225 MPH). Setting unit: 5 km/h (MPH).





●EX. Now the target speed timer is changed from 0~50 km/h to 0~110 km/h.



- EX. You want to set the target distance timer setting at 2/32 mile (100M).
- Press the Adjust button to choose the setting value.









♠ Now the target distance value is flashing!

**NOTE** The target distance timer setting range: 1/32~20/32 mile (50~1,000 M). Setting unit: 1/32 mile (50M).



- Press the Select button to return to a 5 setting screen.
- ●EX. Now the target distance timer setting is changed from 1/32 mile (50 M) to 2/32 mile (100 M).

**NOTE** When you leave this screen, the setting is finished.



Press the Adjust button to select the other setting screens.



If you just want to make this function setting, you could press down the Select button for 3 seconds to back to the main screen.

#### 5-6 Tire circumference and sensor point setting



- In a 6 screen, press the Select button to enter the tire circumference and sensor point setting screen.
- ●EX. Now the tire circumference setting is 1,000 mm, and the sensor point is 1.

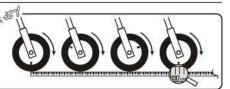
#### A CAUTION!

Please measure the tire circumference.

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





- ●EX. You want to set the circumference at 1,300 mm.
- Press the Select button to move to the digit you want to set.









♠ Now the setting value is flashing!

**NOTE** The tire circumference setting range: 300~2,500 mm. Setting unit: 1 mm.







#### 5-6 Tire circumference and sensor point setting





Press the Adjust button to choose the setting value.





Press the Select button to enter the sensor

point setting screen.

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





- Press the Select button to return to a 6 setting screen.
- EX. Now the sensor point setting is changed from 1 to 6.

**NOTE** When you leave this screen, the setting is finished.

Press the Adjust button to select the other setting screens.



If you just want to make this function setting, you could press down the **Select button** for 3 seconds to back to the main screen.



●EX. The sensor point you want to set is 6. ●Press the Select button to move to the digit

you want to set.



Now the sensor point settingvalue is flashing!

**NOTE** The sensor point setting range: 1~60 points.



Press the Adjust button to choose the setting



# 5-7 RPM input pulse & signal impulse setting





In a 7 screen, press the Select button to enter the RPM input pulse setting screen.

●EX. Now the RPM input pulse setting is 1 (4 Stroke, 2 piston) and the signal impulse setting is Hi (The positive impulse).



Press the Select button to enter the signal

Impulse setting screen.
■EX. Now the RPM input pulse setting is changed from 1 (4 Stroke, 2 piston) to 2 (4 Stroke, 4 piston).



EX. You want to set the RPM Input pulse at 2 [4 Stroke, 4 piston].

Press the Adjust button to choose the setting value.



Now the setting number is flashing!

**NOTE** The RPM input pulse setting range is: 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6.

The setting value	The com- stroke and p	esponding Latons number.	The corresponding RPM signal number per lightlion.
0.5	(n)	4C-1P	2 RPM signals per 1 ignition.
1	2C-1P	4C-2P	1 RPM signal per 1 ignition.
1.5	2	4C-3P	2 RPM signals per 3 ignition.
2	2C-2P	4C-4P	1 RPM signal per 2 ignition.
2.5	(18 <del></del>	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	9	4C-10P	2 RPM signals per 10 ignition.
6	2C-6P	4C-12P	1 RPM signal per 6 japition.

A 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 blke with 2-cycle and one piston engine.



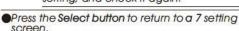
EX. The signal impulse you want to set is Lo (The negative impulse).

Press the Adjust button to choose the setting value.



**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 signal impulse setting is changed from HIP to Lo.

**NOTE** When you leave this screen, the setting is finished.



Press the Adjust button to select the other



setting screens.

If you just want to make this function setting, you could press down the **Select button** for 3 seconds to back to the main screen.



# 5--8 The fuel gauge resistance and insufficient fuel warning setting



In a 8 screen, press the Select button to enter the fuel gauge resistance and insufficient fuel warning setting screen.

●EX. Now the fuel gauge resistance setting is 100  $\Omega$  and the insufficient fuel warning setting





Usually the fuel gauge resistance is 100  $\Omega$  on YAMAHA system, and 510  $\Omega$  on HONDA system. The insufficient fuel warning setting: When the fuel is less than your setting, the fuel level gauge will flash to warn you.





EX. You want to change the fuel resistance setting to 510  $\Omega$ .

Press the Adjust button to choose the setting value.



♠ Now the resistance setting value is flashing!

**NOTE** The fuel gauge resistance setting range :  $100 \Omega$ ,  $510 \Omega$ , fuel switch.

The switch setting is for the fuel switch only, can't be used for the fuel level sensor.

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





Press the Select button to enter the insufficient fuel warning setting screen.

•EX. Now the fuel gauge setting is changed from 100 Ω to 510 Ω.



EX. You want to set the insufficient fuel warning setting at 20 %.

Press the Adjust button to choose the setting



Now the insufficient setting value is flashing!

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





Press the Select button to return to a 8 setting. screen.

EX. Now the setting is changed from 30 % to

**NOTE** When you leave this screen, the setting is finished.

Press the Adjust button to select the other setting screens.



If you just want to make this function setting, you could press down the **Select button** for 3 seconds to back to the main screen.

# 5-9 The clock setting





In a 9 screen, press the Select button to enter the clock setting screen.

EX. Now the time is 0:00.



Press the Select button to return to a 9 setting screen.

●EX. Now the setting is changed from 0 to 5.

NOTE When you leave this screen, the setting is finished.

Press the Adjust button to select the other setting screens.



If you just want to make this function setting, you could press down the Select button for 3 seconds to back to the main screen.



EX. You want to set the clock at 12:05. Press the Adjust button to choose the setting

♠ Now the hour value is flashing!

NOTE This is a 24 H clock.



- Press the Select button to enter the minute
- setting screen.

  EX. Now the hour is changed from 0 to 12.



Press the Adjust button to choose the setting value.



Now the minute value is flashing!



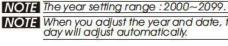
# 5-10 The perpetual calendar setting



In a 10 screen, press the Select button to enter

the perpetual calendar setting screen.

EX. Now the perpetual calendar setting is 2000/01/01 Saturday.



**NOTE** When you adjust the year and date, the day will adjust automatically.



EX. You want to set the perpetual calendar at 2009/07/17.

Press the Adjust button to choose the setting value.



setting screen.

Now the setting value is flashing!

**NOTE** If you choose to turn off the calendar function, press the Select button to return to a 10 screen. Then you could press the Adjust button to select other setting screens.

Press the Select button to enter the year



Press the Select button to enter the month. setting screen. •EX. Now the year setting is changed from 2000



Press the Adjust button to choose the setting value.



Now the setting value is flashing!

NOTE The month setting range: 1~12.

**NOTE** When you adjust the year and date, the day will adjust automatically.



lext page

Press the Adjust button to choose the setting



Now the setting value is flashing!



Press the Select button to enter the date setting screen.

EX. Now the month setting is changed from 1 to 7.



#### 5-10 The perpetual calendar setting



Press the Adjust button to choose the setting value.



∧ Now the setting value is flashing!

**NOTE** The date setting range:  $1 \sim 31$ .

**NOTE** When you adjust the year and date, the day will adjust automatically.



Press the Select button to return to a 10 setting screen.

EX. Now the setting is changed from 01 to 17.

**NOTE** When you leave this screen, the setting is finished.



Press the Adjust button to select the other setting screens.



If you just want to make this function setting, you could press down the Select button for 3 seconds to back to the main screen.

#### 5-11 The backlight brightness setting



 ●In a 11 screen, press the Select button to enter the backlight brightness setting screen.
 ●EX. Now the backlight brightness is 5 (The

 EX. Now the backlight brightness is 5 (The brightest setting).



EX. You want to set the brightness at 3.

Press the Adjust button to choose the setting value.



Now the setting value is flashing!

**NOTE** The backlight brightness setting range: 1~5.

**NOTE** The brightness adjust setting is only effective in the LCD brightness.



Press the Select button to return to a 11 setting screen.

EX. Now the setting is changed from 5 to 3.

**NOTE** When you leave this screen, the setting is finished.



Press the Adjust button to select the other setting screens.



If you just want to make this function setting, you could press down the **Select button** for 3 seconds to back to the main screen.

# 5-12 The real odometer record setting



●The real odometer record is for you to check

how long the meter already worked.

In a 12 screen, press the Adjust button to select the other setting screens.

●EX. Now the real odometer record is 10.168 km.

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

5-13 The displayed odometer setting



In a 13 screen, press the Select button to enter the displayed odometer setting setting screen.

•EX. Now the ODO is 0 km.



- EX. You want to set the displayed odometer as 3,000 km.
- Press the Select button to move to the digit you want to set.



Now the setting value is flashing!

NOTE The setting range: 0~99,999 km. Setting unit: 1 km/h (MPH).



Press the Adjust button to choose the setting value.





- Press the Select button to return to a 13 setting screen.
- ●EX. Now the setting is changed from 0 km to 3,000 km.

**NOTE** When you leave this screen, the setting is finished.





#### 5-13 The displayed odometer setting



Press the Adjust button to select the other setting screens.

**(2)** 

If you just want to make this function setting, you could press down the Select button for 3 seconds to back to the main screen.

#### 6 The power test screen instruction



In main screen, press the Select & Adjust button one time to enter the power test screen.



 In power test screen, press the Select button to choose the test you want to do. The test function is in order as target speed timer, target distance timer, top speed timer.



- In power test screen, press the Select button to switch from the target speed timer to target distance timer.
- •EX. Now it is in the target speed timer screen, and the setting is 0~110 km/h.
- In power test screen, press the Select button to switch from the target distance timer to the top speed timer screen.
- ●EX. Now the screen switch from the target speed timer screen to the target distance timer screen, and the setting is 2/32 mile (0~100 M).
- In power test screen, press the Select button to switch from the top speed timer to the target speed timer.
- EX. Now the screen switch from the target distance timer screen to the top speed timer screen.











#### **A 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 powertest 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 check the record, you could press down the Select button for 3 seconds to back to the main screen.

When the bike moves, the timer will start automatically.

♠ Now the ■ is flashing!

**NOTE** About the power test setting, please check 5-5.



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







A 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, press 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 recordand 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 thé record and enterthe target speed timertest screen.



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# ssting screen if no record



#### MARNING!

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 powertest record, it will alsolay 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. RPMis 8,000 RPM during the test.



If you just want to check the record, you could press down the **Select button** for 3 seconds to back to the main screen.

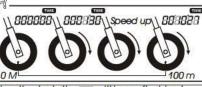
 When the bike moves, the timer will start automatically.

Now the sis flashing!

**NOTE** About the power test setting, please check 5-5.



The timer is automatic, sowhen 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 distance you set (100 M. 2/32 mile), the timer will stop counting (10"27 second).

If you just want to use the function one time, press 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 recordand enter the target speed timer test screen again.



If you don't finish the target distance test or stop accelerating during the test, you could press the Adjust button to stop the timer.
Then you could press the Adjust

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Then you could press the Adjust button one time to clear the record and enter the target distance timer test screen.



# ar the testing screen if no record

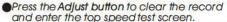


Please use this function at racetrack to avoid traffic accidents.

•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 powertest record, It will alsolay the record first. You must clear the record before starting a new test.



●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 check the record, you could press down the Select button for 3 seconds to back to the main screen.

 When the bike moves, the timer will start automatically.

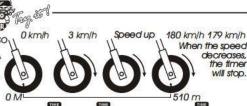
∧ Now the is flashing!

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 unit setting (4-4).



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.



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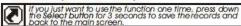
888888



♠ 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.



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# 7 Trouble shooting

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

Check Item
<ul> <li>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 to         old to supply enough power (DC 12V) to         make the meter work.</li> </ul>
Please check the voltage of your battery, and make sure the voltage is over DC 12V.
<ul> <li>◆Please make sure the speed sensor is connected correctly.</li> <li>◆Please check the tire-size setting.</li> <li>→please refer to the manual 5-6.</li> </ul>
<ul> <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.</li> <li>→Please refer to the manual 5-7.</li> </ul>
◆Please check the sensor. →Does the wiring break or falling off?
<ul> <li>Please check your fuel tank.</li> <li>→Is there any fuel Inside?</li> <li>Please check the wiring.</li> <li>→Do you connect the wiring correctly?</li> <li>Please check the setting.</li> <li>→Please refer to the manual 5-8.</li> </ul>

Trouble	Check Item
The clock is incorrect. The odometer and trip meter is not accumulated or accumulated wrong data. When switch off, the needle doesn't return to 0.	Olt is possible that the positive wire is connected wrongly.  → Please check is the red positive wire connect to the permanent power or battery and the brown positive wire is connected to the key on switch positive pole.  Old it is possible that the permanent power wire is not connected well.  → Please check the red positive wire is connect well or not.

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



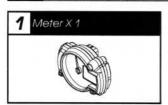


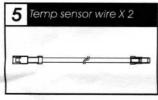


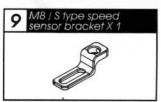
# INSTALLATION

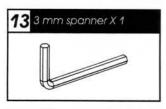


# 1-1 Accessory

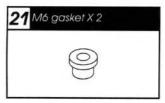


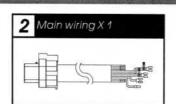


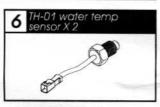


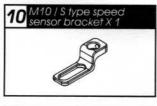


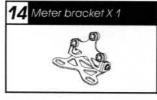






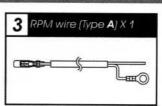






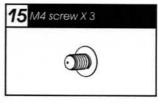


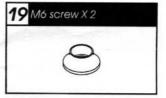


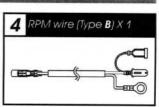


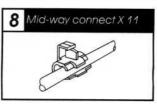


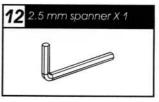


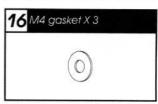


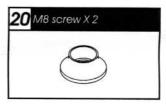






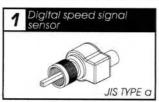


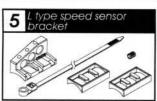


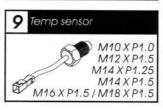


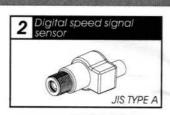
NOTE Please contact the local distributor if the items you open are not the same, with the above-listed one.

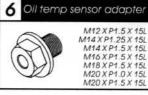
# 1-2 Option accessory

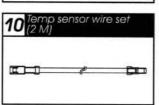


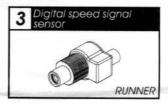




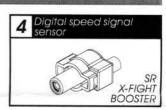


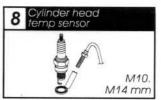


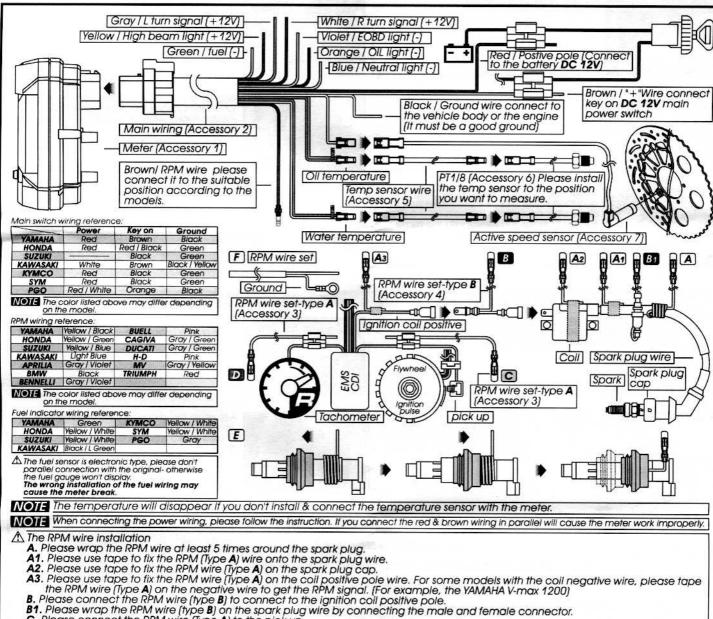










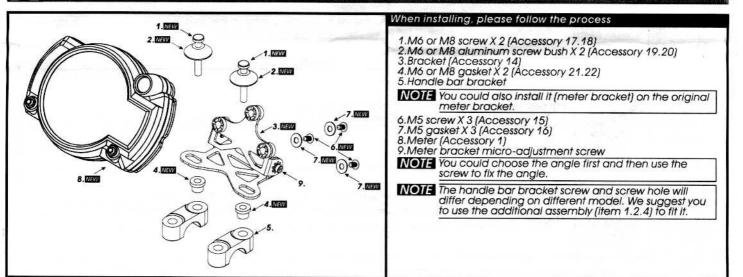


B. Please connect the RPM wire (type B) to connect to the ignition coil positive pole.
B1. Please wrap the RPM wire (type B) on the spark plug wire by connecting the male and female connector.
C. Please connect the RPM wire (Type A) to the pick up.
D. Please parallel the RPM wire (Type A) with the original 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

F. Please use the method mentioned above to install the RPM wire, and then connect the ground wire to the frame body or the engine. (Please make sure that the ground is 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.

#### 2-2 Installation instructions



# 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.



The active speed sensor could be installed by the metal parts to detect the speed.

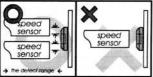
EX. 1 The disc screw.

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.

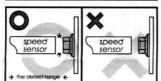
After installation, please use your hand to turn the tire to see is everything ok. The LED on the active speed sensor will light up once the signal is detected.



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.

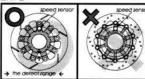


The hexagon screw

The best detect area: The middle of the screws.

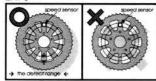
⚠ Some hexagon screw center is with a small hole in the center in this case, we will suggest you to catch the signal from the edge of the screw like the hexagon socket screw.

FX 2



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!



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!