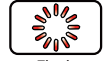




Thank you for purchasing our product. Before installing/operating the product, read the instructions carefully and retain them for future reference.

⚠ Attention!

- For installation, follow the steps described. Any damage caused by wrong installation shall be imputed to the users.
- To avoid a short circuit from occurring do not pull or modify the wires during installation.
- Do not disassemble or change any parts. Opening and disassembling this unit will void any warranty.
- Maintenance and repairs should be executed by our professionals only.



Flash



Light on



Hold the Button
1 second



Hold the Button
3 seconds


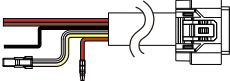

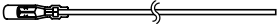





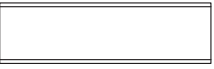
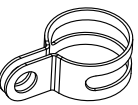
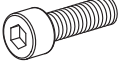


Symbol description:

NOTE

⚠ Some procedures must be followed to avoid damages to the product.

⚠ **WARNING!** Certain procedure must be followed to avoid damages to yourself, to the vehicle or to others.

1-1 Accessories

<p>1 LCD Meter X1</p> 	<p>2 Main wiring harness X 1</p> 	<p>3 RPM wire (Type A) X1</p> 	<p>4 RPM wire set(TYPE B) X1</p> 
<p>5 Sensor wire set X1</p> 	<p>6 Temperature sensor X1</p> 	<p>7 Meter bracket X1</p> 	<p>8 M5 washer X2</p> 
<p>9 M5x16LxP0.8 Allen screw X2</p> 	<p>10 Rubber strip X1</p> 	<p>11 Handlebar clamp X1</p> 	<p>12 M8x20LxP1.25 Allen screw X1</p> 
<p>13 M8 washer X1</p> 	<p>14 M8xP1.25 nut X1</p> 		

1-2 Optional accessories

1 Oil temp sensor adapter

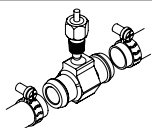
M12 X P1.5 X 15L
 M14 X P1.25 X 15L
 M14 X P1.5 X 15L
 M16 X P1.5 X 15L
 M18 X P1.5 X 15L
 M20 X P1.0 X 15L
 M20 X P1.5 X 15L



BG*****

2 Water temp sensor adapter

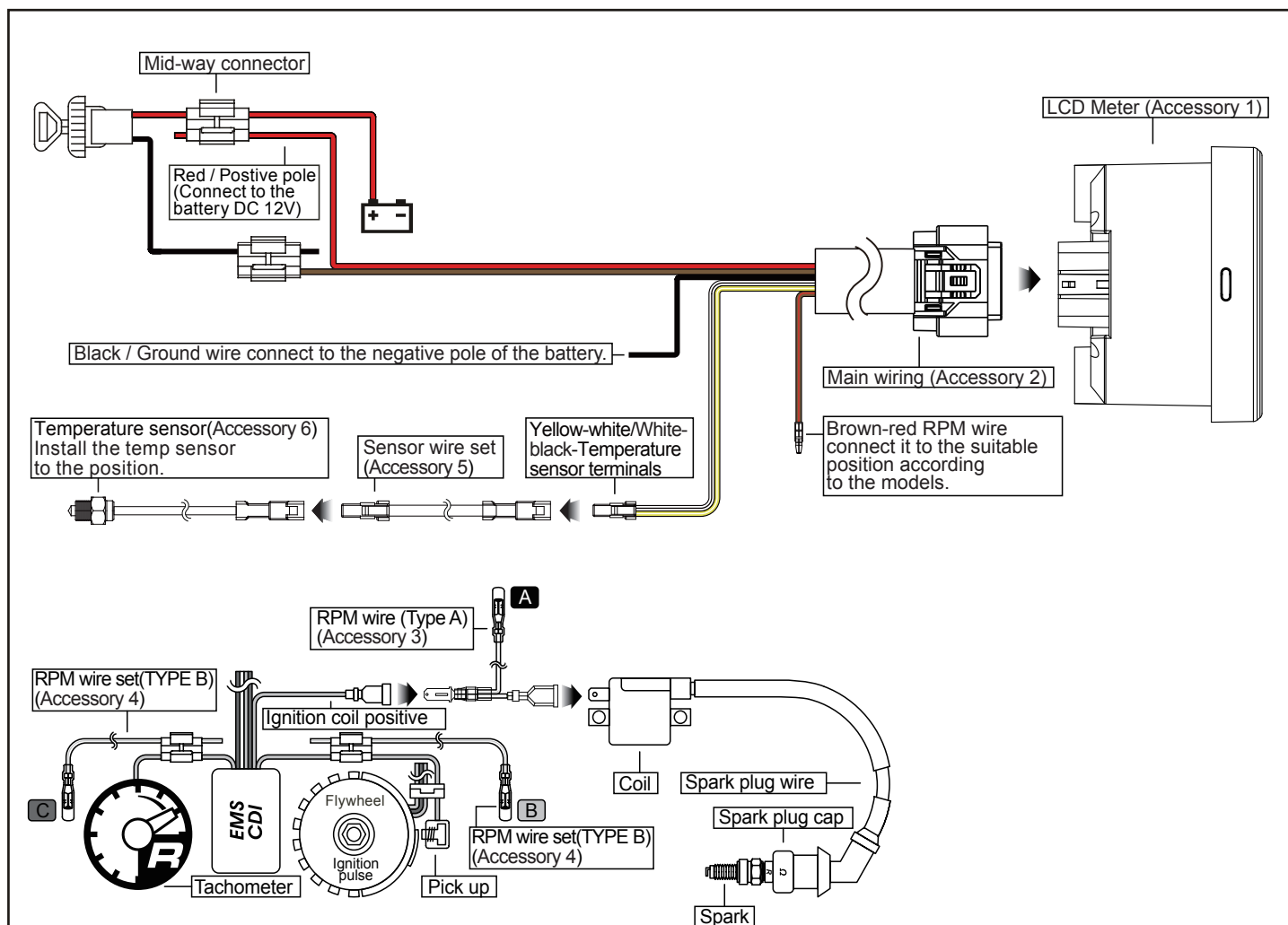
M14
 M16. M18
 M22. M26 mm



BG*****

NOTE Some of the option accessories may be purchased separately. For more details, contact your local distributor.

2-1 Wiring Installation Instructions



NOTE When connecting the power wire, carefully follow the instructions. If the red & brown wires are connected in parallel, the meter won't work properly.

⚠ The RPM wire installation

We recommend installing the R type spark plug or low-resistance spark plug cap at the same time.

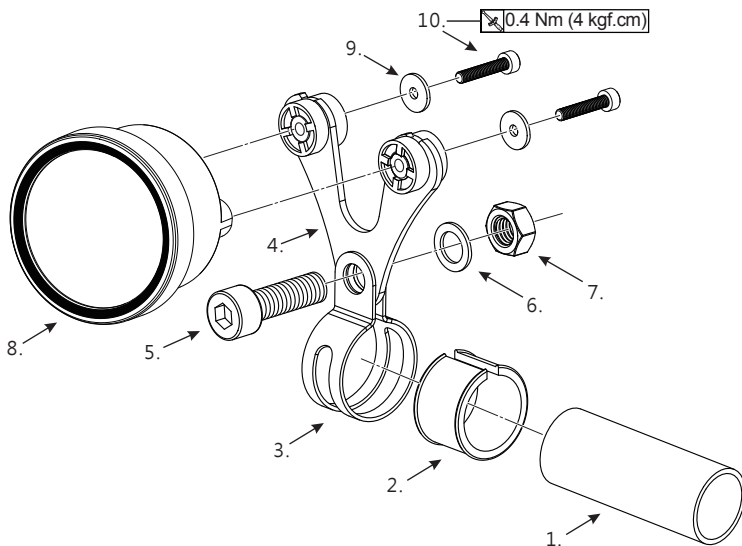
A. Connect the RPM wire (Type A) on the spark plug wire by connecting the male and female connectors.

B. Connect the RPM wire (Type B) to the pick up sensor.

C. Connect in parallel the RPM wire (Type A) with the original tachometer signal wire.

The best signal source is in order as C>B>A. We suggest that you check different ways if you have problems getting the RPM signal.

3 Installation instructions



Follow the steps below during installation.

1. Handlebar
2. Rubber strip (Accessory 10)

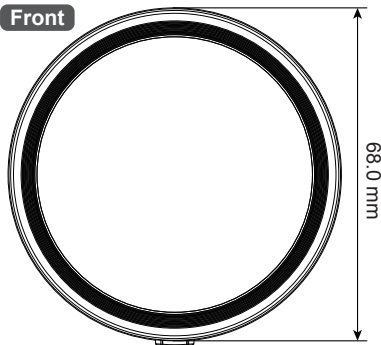
CAUTION! Refer to the list below and decide whether to use rubber strip according to the grip diameter.

Handle bar SIZE	Use Rubber strip
7/8"(22.2 mm)	NO
1"(25.4 mm)	YES

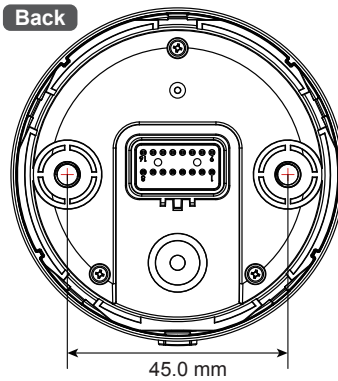
3. Handlebar clamp (Accessory 11)
4. Meter bracket (Accessory 7)
5. M8x20LxP1.25 Allen screw (Accessory 12)
6. M8 washer (Accessory 13)
7. M8xP1.25 nut (Accessory 14)
8. LCD Meter (Accessory 1)
9. M5 washer X2 (Accessory 8)
10. M5x16LxP0.8 Allen screw X2 (Accessory 9)

3-1 Meter Size

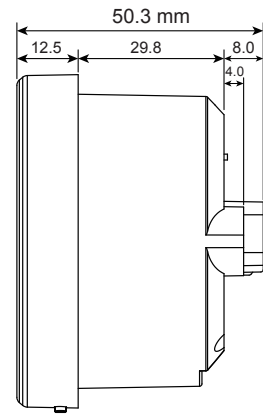
Front



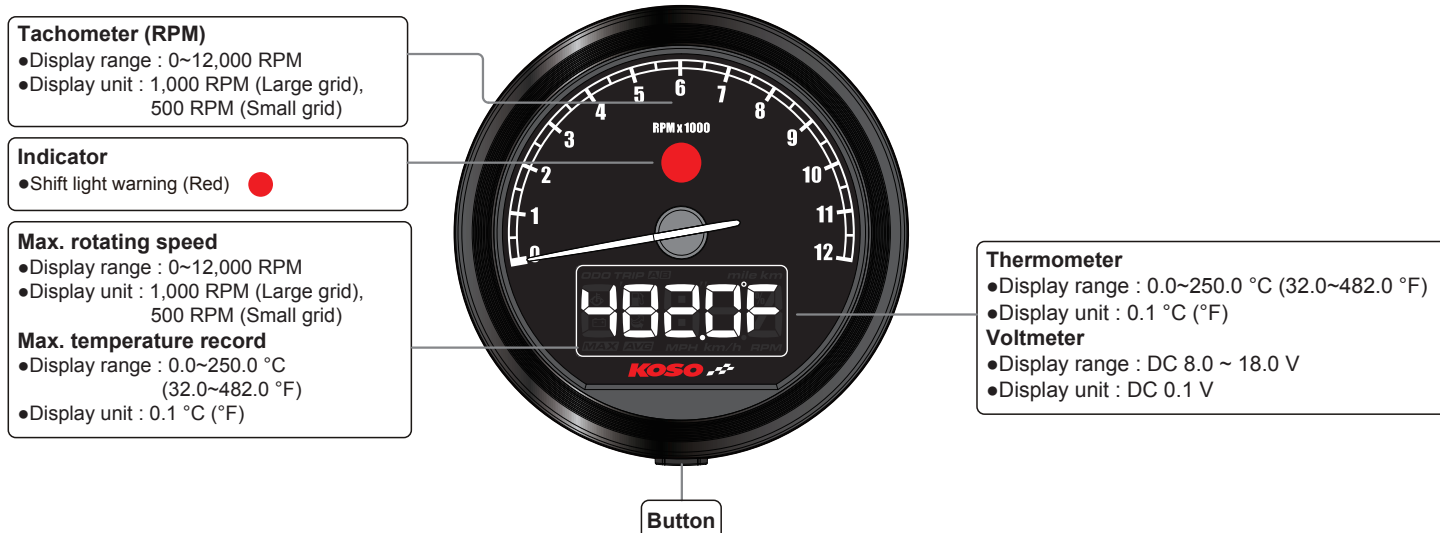
Back



Side



3-2 Basic Function Instructions



3-3 Specifications

●Tachometer (RPM)	Display range : 0 ~ 12,000 RPM Display unit : 1,000 RPM (Large grid) , 500 RPM (Small grid)	○Max. temperature record	Display range : 0.0~250.0 °C (32.0~482.0 °F) , can return to zero manually Display unit : 0.1 °C (°F)
○Pre-Shift Light warning	Setting range : 1,000 ~ 11,000 RPM, when setting value is reached or above, warning light will illuminate. Setting unit : 100 RPM	●Voltmeter	Display range : DC 8.0 ~ 18.0 V Display unit : DC 0.1 V
○Shift Light warning	Setting range : Pre-Shift Light warning setting value +100 ~ 12,000 RPM, when setting value is reached or above, warning light will illuminate. Setting unit : 100 RPM	○Low voltage warning	Setting range : DC 8.0~13.0 V, when setting value is reached or below, warning light will illuminate. Setting unit : 0.1 V
○Max. rotating speed	Display range : 0~12,000 RPM Display unit : 1,000 RPM (Large grid), 500 RPM (Small grid)	●Backlight brightness	Setting range : 1/3(Darkest)~ 3/3(Brightest) Setting unit : 1/3
●The RPM input signal number setting	Setting range : P-0.5, 1 ~ 6	○Backlight color	Setting range : white, red, orange, yellow, green, blue, light blue, purple Loop switch
○The RPM input pulse	Setting range : LO-ACT, HI-ACT	●Unit	Temperature unit : °C (Celsius) and °F (Fahrenheit)
●Temperature	Display range : 0.0~250.0 °C (32.0~482.0 °F) Display unit : 0.1 °C (°F)	○Operating voltage	DC 12V
○Overheat warning	Setting range : 60~250 °C(140~482 °F) , when setting value is reached or above, warning light will illuminate. Setting unit : 1 °C (°F)	●Operating temperature	-10~ +60 °C
		○Storage temperature	-20~ +80 °C
		●Specification	JIS D 0203(S2)
		●Meter Size	D 60 mm
		●Meter Weight	± 100 g
		●Indicator	Over-running light (Red) ●
NOTE Design and specifications are subject to change without notice.			

4 Main Menu Switching Description

When the voltage function is turned off

- In the temperature screen, press the **button** to enter the voltage screen.
- In the temperature screen, press the **button** for 3 seconds to enter the setting screen.

• In the voltage screen, press the **button** to enter the MAX screen.

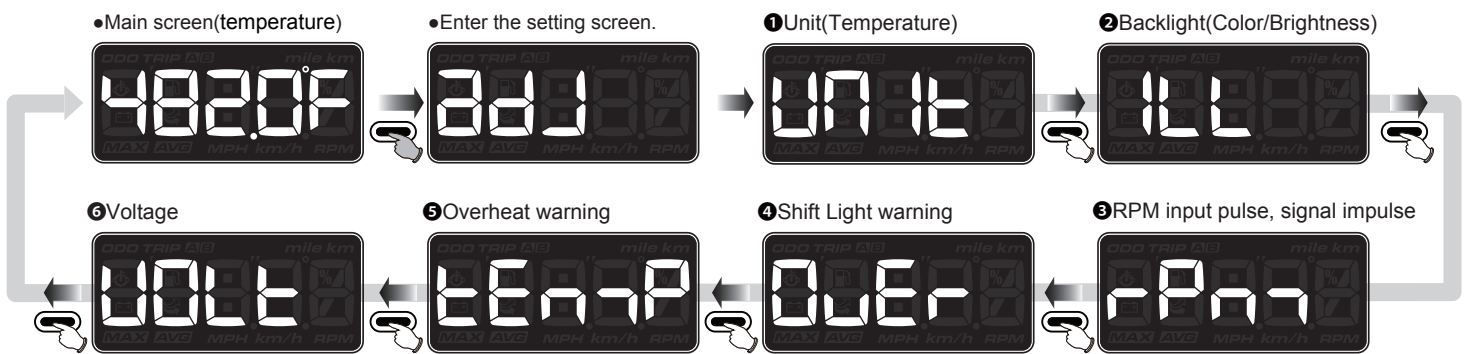
NOTE When the function is turned on, it will only be displayed on the screen.

- In the MAX screen, press the **button** to go back to the temperature screen.
- Press the **button** for 3 seconds to reset Max. record screen.

• In the temperature screen.

5 Setting Screen Switching Description

- Press the **button** for 3 seconds in the main screen (temperature) to switch to the setting screen.
 - Press the **button** to select
- ① Unit (Temperature) ② Backlight (Color/Brightness) ③ RPM input pulse, signal impulse ④ Shift Light warning ⑤ Overheat warning ⑥ Voltage
- NOTE** During setting, if no button is not pressed for 30 seconds, it will automatically return to the startup screen.



5-1 Unit (Temperature) Setting

- In the unit screen, press the **button** for 3 seconds to enter the unit setting.

• EX : Set temp. unit from °F (Fahrenheit) to °C (Celsius).

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

• Example : To set temp. unit to °C.

- Press the **button** to choose the setting options.
- Now the setting value is flashing.

NOTE Setting range : °C (Celsius) and °F (Fahrenheit).
Default value : °F (Fahrenheit).

• The unit screen.

5-2 Backlight Setting(Color/Brightness)



- In the backlight(Color/Brightness) screen, press the **button for 3 seconds** to enter the backlight color setting.



- **Example : To set the backlight brightness at 2/3.**

- Press the **button** to choose the setting number.

⚠ Now the setting value is flashing.

NOTE Setting range : 1/3(Darkest)~ 3/3(Brightest).
Default value : 1/3.

NOTE The backlight brightness will change immediately after you set the value.



- **Example : To set backlight color to yellow.**
- Press the **button** to choose the color.

⚠ Now the setting value is flashing.

NOTE Setting range : white, red, orange, yellow, green, blue, light blue, purple
Default value : White.

NOTE The backlight color will change immediately after you set the value.



- **EX :** The backlight brightness setting is changed from 1/3 to 2/3.

- Press the **button for 3 seconds** to go back to the backlight(Color/Brightness) screen.



- **EX :** Set backlight color from white to yellow.
- Press the **button for 3 seconds** to enter the backlight brightness setting.



- The backlight(Color/Brightness) screen.

5-3 RPM input pulse & Signal impulse



- In the RPM input pulse & signal impulse screen, press the **button for 3 seconds** to enter the RPM input pulse & signal impulse settings.

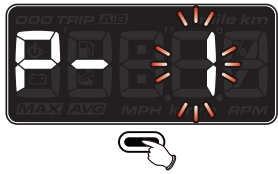


- **Example : Set the signal impulse to Low-Act.**

- Press the **button** to choose the setting options.

⚠ Now the setting value is flashing.

NOTE Setting range : Hi-Act, Low-Act.
Default value : Hi-Act.



- **Example : You want to set the RPM input pulse to 2 (4 Stroke, 4 piston).**
- Press the **button** to choose the setting number.

⚠ Now the setting value is flashing.

NOTE Setting range : P-0.5, 1 ~ 6.
Default value : P-1.



- **EX :** Set the signal impulse from Hi-Act to Low-Act.

- Press the **button for 3 seconds** to go back to the RPM input pulse & Signal impulse.

The setting value	The corresponding stroke and pistons number.	The corresponding RPM signal number per ignition.
0.5	— 4C-1P	2 RPM signals per 1 ignition.
1.0	2C-1P 4C-2P	1 RPM signal per 1 ignition.
2.0	2C-2P 4C-4P	1 RPM signal per 2 ignition.
3.0	2C-3P 4C-6P	1 RPM signal per 3 ignition.
4.0	2C-4P 4C-8P	1 RPM signal per 4 ignition.
5.0	— 4C-10P	1 RPM signal per 5 ignition.
6.0	2C-6P 4C-12P	1 RPM signal per 6 ignition.

⚠ CAUTION!

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



- **EX :** The RPM input pulse setting is changed from 1.0 to 2.0.
- Press the **button for 3 seconds** to enter the signal impulse setting.



- The RPM input pulse & signal impulse.

5-4 Shift Light Warning Setting



● In the shift light warning screen, press the **button for 3 seconds** to enter the Pre-Shift Light warning(Flash) setting.



● Example : To set Pre-Shift Light warning (Flash) value to 9,000 RPM.

● Press the **button for 3 seconds** to move to the digit you want to set.

⚠ Now the setting value is flashing.

NOTE Setting range : 1,000~11,000 RPM.
Default value : 8,000 RPM.



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



● EX : Set Pre-Shift Light warning(Flash) value from 8,000 RPM to 9,000 RPM.
● Press the **button for 3 seconds** to enter the shift light warning(Steady) setting.



● Example : To set shift light warning (Steady) value to 11,000 RPM.

● Press the **button for 3 seconds** to move to the digit you want to set.

⚠ Now the setting value is flashing.

NOTE Setting range : Pre-Shift Light warning setting value +100 ~ 12,000 RPM.
Default value : 9,000 RPM.



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



● EX : Set shift light warning(Steady) value from 9,000 RPM to 11,000 RPM.
● Press the **button for 3 seconds** to go back to the shift light warning screen.



● The shift light warning screen.

5-5 Overheat Warning Setting



● In the overheat warning screen, press the **button for 3 seconds** to enter the overheat warning setting.



● Example : To set overheat warning value to 248 °F.

● Press the **button for 3 seconds** to move to the digit you want to set.

⚠ Now the setting value is flashing.

NOTE Setting range : 60 ~250 °C
(140 ~482 °F).
Default value : 90 °C(194 °F).



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



● EX : Set overheat warning value from 194 °F to 248 °F.

● Press the **button for 3 seconds** to go back to the overheat warning setting.



● The overheat warning screen.



5-6 Voltage Setting



- In the voltage screen, press the **button** for **3 seconds** to enter the voltage setting.



- Press the **button** to choose the setting number.



- **Example : To set voltage function to ON .**
- Press the **button** to choose the setting options.

⚠ Now the setting value will blink.

NOTE Settings range : ON, OFF.
Default value : OFF.



- EX : Set low voltage warning value from DC 11.5 V to DC 11.0 V.
- Press the **button** for **3 seconds** to go back to the voltage warning screen.



- EX : Set voltage function from OFF to ON .
- Press the **button** for **3 seconds** to enter the low voltage warning setting.



- The voltage screen.



- **Example : To set low voltage warning value to DC 11.0 V.**
- Press the **button** for **3 seconds** to move to the digit you want to set.

⚠ Now the setting value is flashing.

NOTE Setting range : DC 8.0~13.0 V.
Default value : DC 11.5 V.

6 Trouble Shooting

The following situations do not indicate malfunctions of the product. Check the following before taking it in for repair.

Trouble	Check item	Trouble	Check item
The meter doesn't work when the power is on.	<ul style="list-style-type: none"> ● The power isn't supplied to the meter. → Make sure the wiring is connected. The wiring and fuse are not broken. → The battery is too old to supply needed power (DC 12 V). ● Check the voltage of your battery, and make sure the voltage is over DC 12 V. 	Thermometer doesn't display or displays incorrectly.	<ul style="list-style-type: none"> ● Make sure the temperature wire is connected properly. → Check if the temperature wire is connected correctly. ● Check the setting. → Refer to the manual 5-5 Overheat Warning Setting.
The meter shows wrong information. Tachometer doesn't appear or appears incorrectly.	<ul style="list-style-type: none"> ● Make sure the RPM wire is connected properly. → Check if the RPM wire wire is connected correctly. ● Check if the spark plug is R type or not. If not, replace the spark plug with the R type spark plug. ● Check the setting. → Refer to the manual 5-3 RPM input pulse & Signal impulse & RPM range. 	The meter indicator doesn't display.	<ul style="list-style-type: none"> ● May be poor connection of the harness. → Make sure the wires are connected correctly.

※ If the problems still cannot be solved, contact our technical department for assistance.