



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.

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.



Flash



Light on


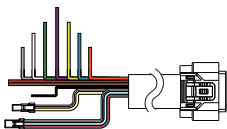
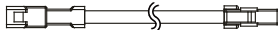
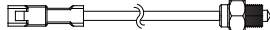




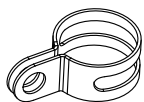
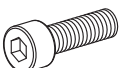




Hold the  
Button  
1 second

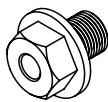
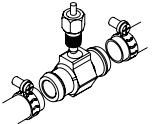


Hold the  
Button  
3 seconds

## 1-1 Accessories

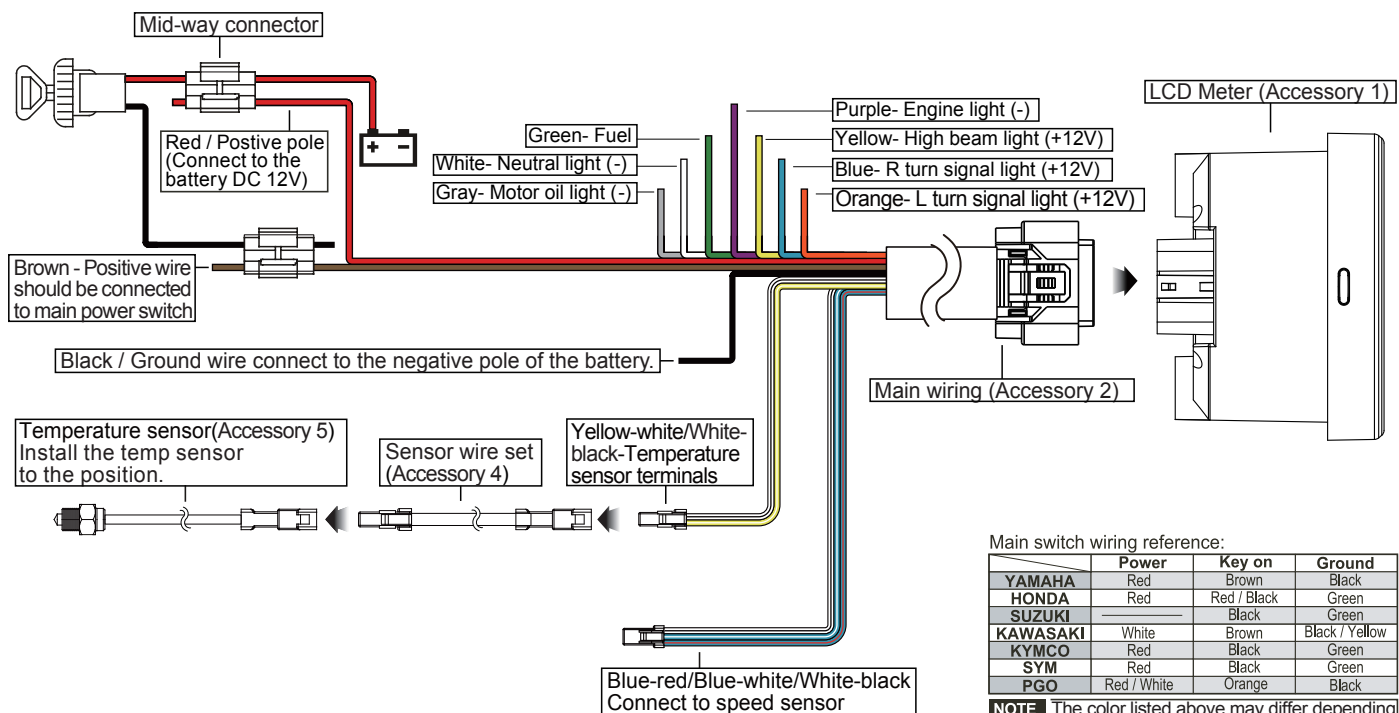
<b>1</b> LCD Meter X1 	<b>2</b> Main wiring harness X 1 	<b>3</b> Sensor wire set X1 	<b>4</b> Temperature sensor X1 
<b>5</b> Meter bracket X1 	<b>6</b> M5 washer X2 	<b>7</b> M5x16LxP0.8 Allen screw X2 	<b>8</b> Rubber strip X1 
<b>9</b> Handlebar clamp X1 	<b>10</b> M8x20LxP1.25 Allen screw X1 	<b>11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

## 1-2 Optional accessories

<b>1</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  BG*****	<b>2</b> Water temp sensor adapter  M14 M16. M18 M22. M26 mm BG0*****
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**NOTE** Some of the option accessories may be purchased separately. For more details, contact your local distributor.

## 2 Wiring Installation Instructions



Main switch wiring reference:

	Power	Key on	Ground
<b>YAMAHA</b>	Red	Brown	Black
<b>HONDA</b>	Red	Red / Black	Green
<b>SUZUKI</b>		Black	Green
<b>KAWASAKI</b>	White	Brown	Black / Yellow
<b>KYMCO</b>	Red	Black	Green
<b>SYM</b>	Red	Black	Green
<b>PGO</b>	Red / White	Orange	Black

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

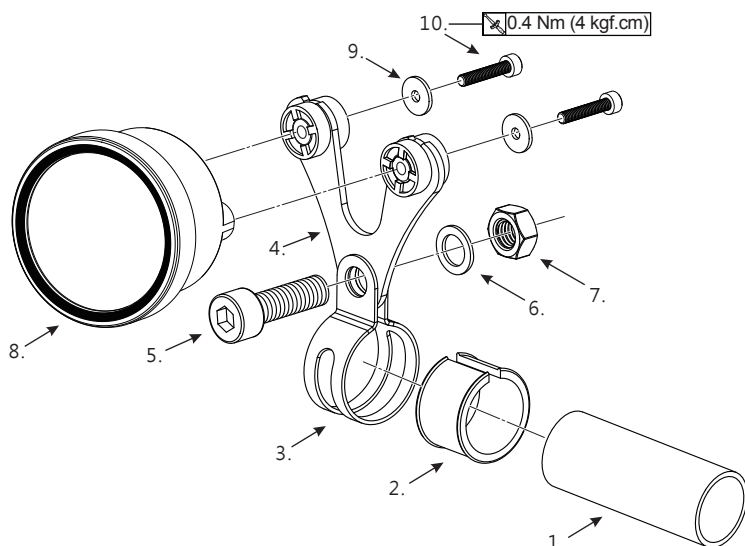
Fuel indicator wiring reference:

	Green	<b>KYMCO</b>	Yellow / White
<b>YAMAHA</b>	Green		
<b>HONDA</b>	Yellow / White	<b>SYM</b>	Yellow / White
<b>SUZUKI</b>	Yellow / White	<b>PGO</b>	Gray
<b>KAWASAKI</b>	Black / L Green		

⚠ The fuel sensor is electronic type, don't connect in parallel with the original- otherwise the fuel gauge won't display. Wrong installation of the fuel wiring may cause the meter to break.

**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.

### 3 Installation instructions



#### Follow the steps below during installation.

1. Handlebar
2. Rubber strip (Accessory 8)

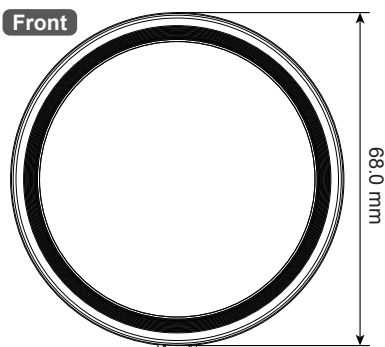
**CAUTION!** Refer to the list below and decide whether to use rubber strip according to the grip diameter.

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

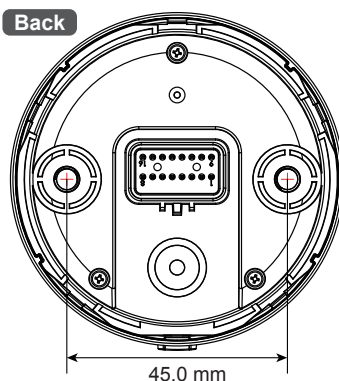
3. Handlebar clamp (Accessory 9)
4. Meter bracket (Accessory 5)
5. M8x20LxP1.25 Allen screw (Accessory 10)
6. M8 washer (Accessory 11)
7. M8xP1.25 nut (Accessory 12)
8. LCD Meter (Accessory 1)
9. M5 washer X2 (Accessory 6)
10. M5x16LxP0.8 Allen screw X2 (Accessory 7)

### 3-1 Meter Size

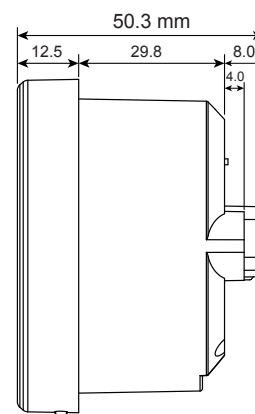
Front



Back



Side



### 3-2 Basic Function Instructions

#### Speedometer

- Display range : 0 ~ 160 km/h (MPH)
- Display unit : 20 km/h (MPH) (Large grid), 10km/h (MPH) (Small grid)

#### Indicator

- High beam light (Blue)
- Turn signal light (Green)
- Composite warning light (Red)
- Speeding warning (Red)
- Motor oil maintenance light (Red)
- Neutral light (Green)
- Check engine light (Amber)

#### Max. speed record

- Display range : 0~160 km/h (MPH)
- Display unit : 1 km/h (MPH)

#### Max. temperature record

- Display range : 0.0~250.0 °C (32.0~482.0 °F)
- Display unit : 0.1 °C (°F)



Button

#### Odometer

- Display range : 0 ~ 99,999 km (mile)
- Display unit : 1 km (mile)

#### Trip meter A, B

- Display range : 0.0~9,999.9 km (mile)
- Display unit : 0.1 km (mile)

#### Fuel meter

- Display range : 10 levels (100%)
- Display unit : 1 level (10 %)

#### Clock

- Setting range : 00:00~23:59 (24H)  
01:00~12:59 (12H)

#### Thermometer

- Display range : 0.0~250.0 °C (32.0~482.0 °F)
- Display unit : 0.1 °C (°F)

#### Voltmeter

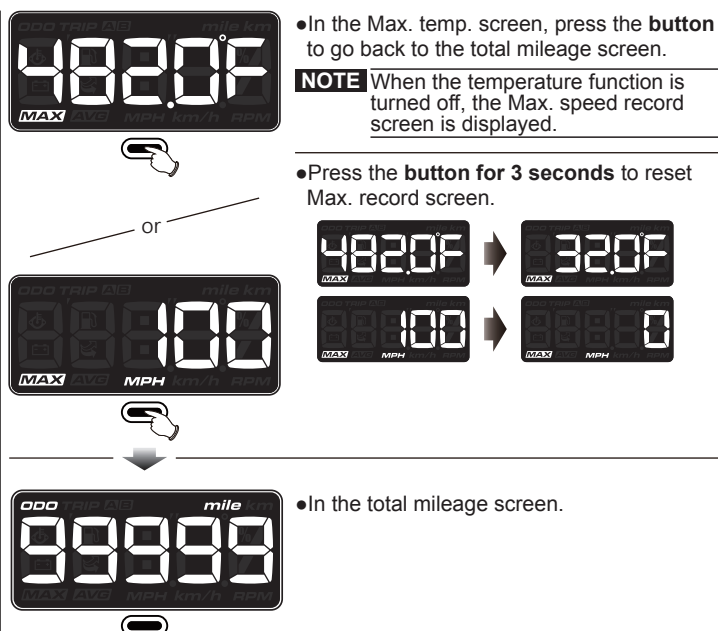
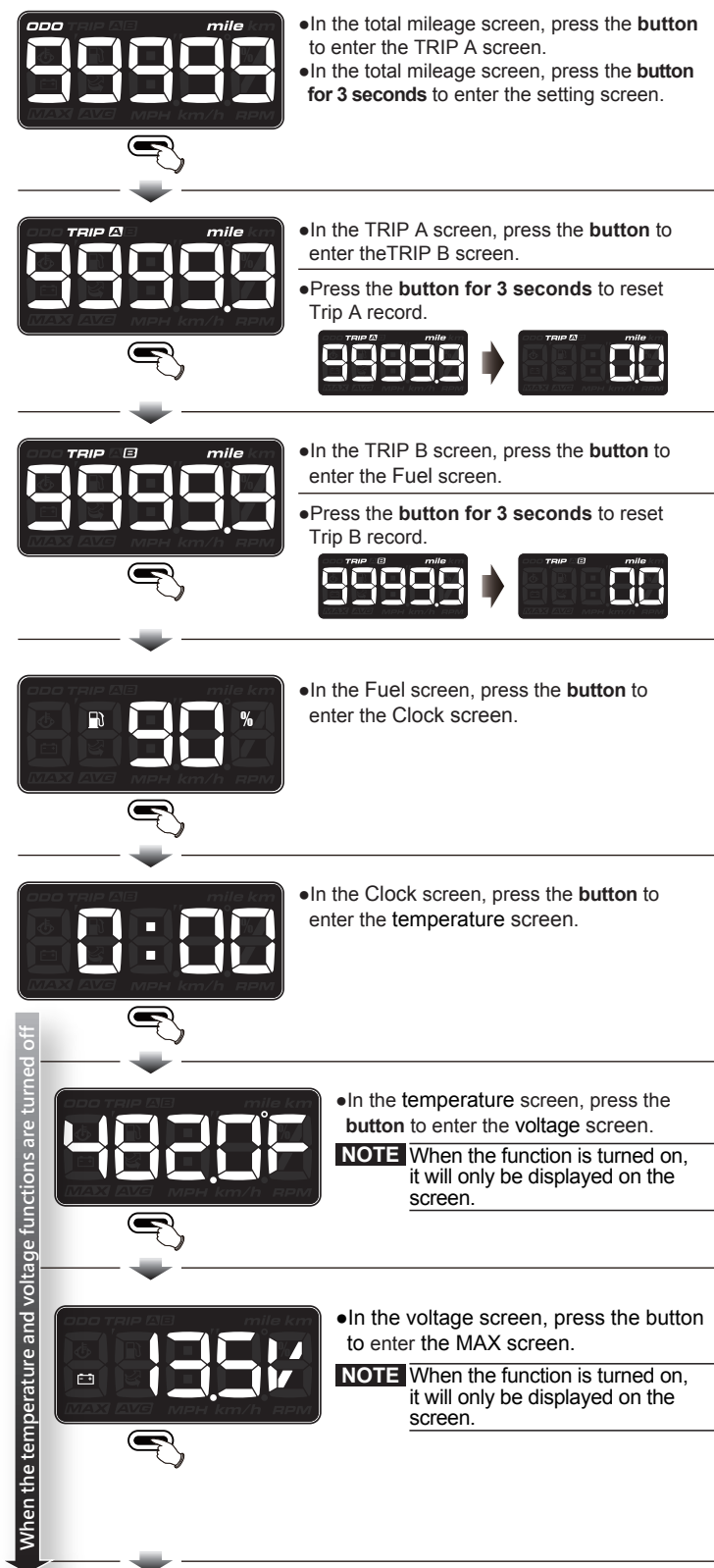
- Display range : DC 8.0 ~ 18.0 V
- Display unit : DC 0.1 V

### 3-3 Specifications

●Speedometer	Display range : 0 ~ 160 km/h (MPH) Display unit : 20 km/h (MPH) (Large grid), 10km/h (MPH) (Small grid)	●Clock	Setting range : 00:00~23:59 (24H) 01:00~12:59 (12H)
○Speeding warning setting	Display range : 30~160 km/h (19~100 MPH), when setting value is reached or above, warning light will illuminate. Display unit : 1 km/h (MPH)	●Voltmeter	Display range : DC 8.0 ~ 18.0 V Display unit : DC 0.1 V
○Max. speed record	Display range : 0~160 km/h (MPH), can return to zero manually Display unit : 1 km/h (MPH)	○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
○Odometer	Setting range : 0 ~ 99,999 km (mile) Setting unit : 1 km (mile)	●Composite warning light	Setting range : Low Fuel(LFUEL), Low voltage(VOLT), Overheat(TEMP). Setting range : Lit.(L), Slow Flash(S), Fast Flash(F), OFF
○Trip meter A, B	Display range : 0.0~9,999.9 km (mile), can return to zero manually Display unit : 0.1 km (mile)	●Backlight brightness	Setting range : 1/3(Darkest)~ 3/3(Brightest) Setting unit : 1/3
○Circumference	Setting range : 300~2,500 mm Setting unit : 1 mm	○Backlight color	Setting range : white, red, orange, yellow, green, blue, light blue, purple Loop switch
○Sensitive point	Setting range : 1~20 P Setting unit : 1 P	●Unit	Speed unit : km/h , MPH 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
○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)	○Storage temperature	-20~ +80 °C
●Fuel meter	Display range : 10 levels (100%) Display unit : 1 levels (10%)	●Specification	JIS D 0203(S2)
○Fuel Gauge Resistance(Ω)	Setting range : 100 Ω, 250 Ω, 270 Ω, 390 Ω, 510 Ω, 1200 Ω, Sw, Custom(learning mode), OFF	●Meter Size	D 60 mm
○Low Fuel warning	Setting range : 0~30%, when setting value is reached or below, warning light will illuminate. Setting unit : 10%	●Meter Weight	± 100 g
		●Indicator	High beam light (Blue) Turn signal light (Green) Composite warning light (Red) Speeding warning (Red) Motor oil light (Red) Neutral light (Green) Check engine light (Amber)

**NOTE** Design and specifications are subject to change without notice.

## 4 Main Menu Switching Description



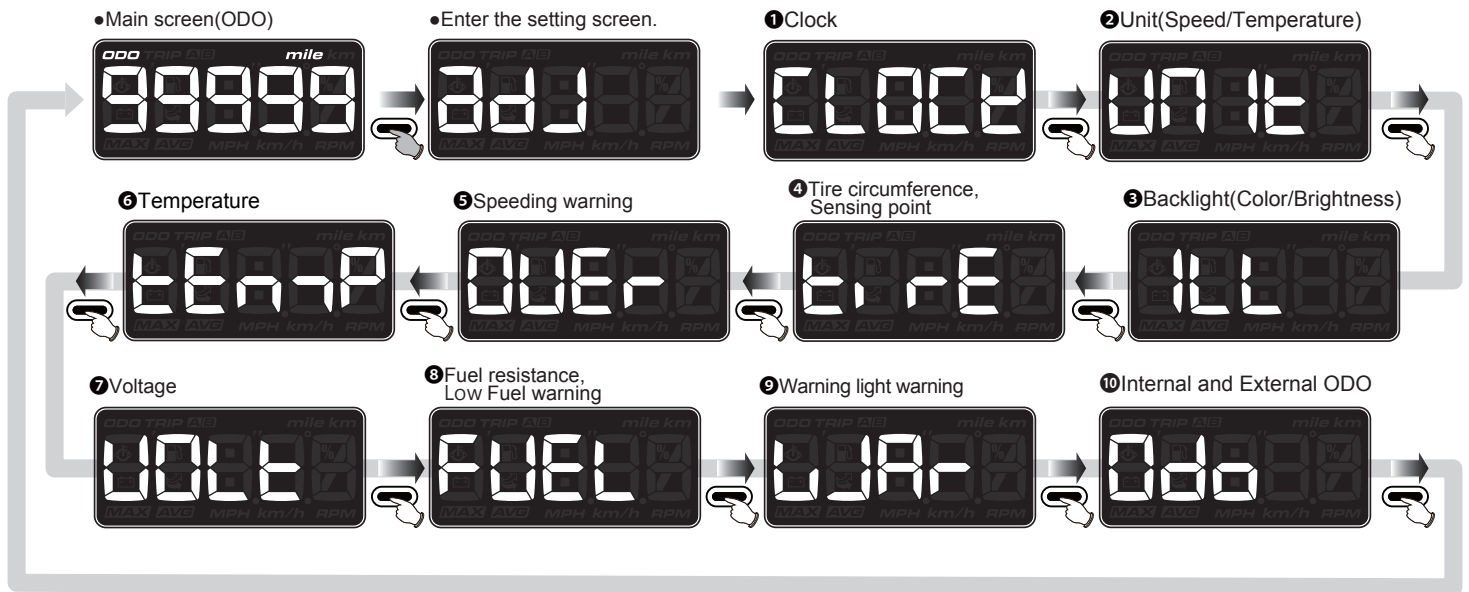
## 5 Setting Screen Switching Description

• Press the **button for 3 seconds** in the main screen(ODO) to switch to the setting screen.

• Press the **button** to select

①Clock ②Unit(Speed/Temperature) ③Backlight(Color/Brightness) ④Tire circumference, Sensing point ⑤Speeding warning ⑥Temperature ⑦Voltage ⑧Fuel resistance, Low Fuel warning ⑨Warning light warning ⑩Internal and External ODO

**NOTE** During setting, if no button is not pressed for 30 seconds, it will automatically return to the startup screen.



## 5-1 Clock Setting



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



- Press the **button for 3 seconds** to move to the digit you want to set.
- EX: To set clock(minute) as 10 minutes.

⚠ Now the setting value is flashing.

**NOTE** Setting range : 00~59 minutes.  
Default value : 0.



- **Example : Changing to 12H.**
- Press the **button** to choose the setting option.

⚠ Now the setting value is flashing.

**NOTE** Setting range : 12 H, 24 H.  
Default value : 24 H.



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



- EX : Set time format from 24 H to 12 H.
- Press the **button for 3 seconds** to enter time adjustment hour setting.



- EX : Set minute from 0 minutes to 10 minutes.
- Press the **button for 3 seconds** to go back to the Clock screen.



- **Example : To set clock(hour) to 10 hours.**
- Press the **button** to choose the setting number.

⚠ Now the setting value is flashing.

**NOTE** Cursor moving order is :  
Hour → Digit in ten minutes →  
Digit in minutes

**NOTE** Setting range : 1~12(12H)  
0~23(24H)  
Default value : 12(12H)/0(24H)



- The Clock screen.



- EX : Set hour from 12:00 AM to 10:00 AM.
- Press the **button for 3 seconds** to enter clock adjustment minute setting.

## 5-2 Unit (Speed, Temperature) Setting



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



- **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).



- **Example : To set speed unit in km/h.**
- Press the **button** to choose the setting options.

⚠ Now the setting value is flashing.

**NOTE** Setting range : km/h, MPH.  
Default value : MPH.



- EX : Set temp. unit from °F (Fahrenheit) to °C (Celsius).
- Press the **button for 3 seconds** to go back to the unit screen.



- EX : Set speed unit from MPH to km/h.
- Press the **button for 3 seconds** to enter the temp. unit setting screen.



- The unit screen.



## 5-3 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 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 : Set backlight color from white to yellow.**
- Press the **button** for 3 seconds to enter the backlight brightness 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.



- **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.



- The backlight(Color/Brightness) screen.

## 5-4 Tire Circumference and sensing point setting



- In the tire circumference and sensing point screen, press the **button** for 3 seconds to enter the tire circumference and sensing point setting.



### ⚠ CAUTION!

- Measure the tire circumference (The tire you will install the sensor on) to confirm the sensor point value.
- The speed displayed on the meter will be affected by the setting, make sure the setting number is correct before you enter the setting.

⚠ Reset this setting value if you change to a different tire size.



- **Example : If the tire circumference is 1,300 mm.**
- Press the **button** for 3 seconds to move to the digit you want to set.

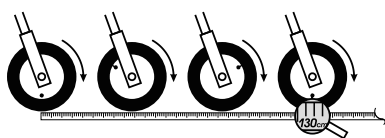
⚠ Now the setting value is flashing.

**NOTE** Setting range : 300~2,500 mm.  
Default value : 1,000 mm.

P.S.



- You can use the tire valve as the starting point and the terminal point to measure the wheel circumference with a measuring tape.



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



- **EX : Set the tire circumference value from 1,000 mm to 1,300 mm.**
- Press the **button** for 3 seconds to enter the sensor point setting.



- **Example : To set the sensor point value to 06 P .**

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

⚠ Now the setting value is flashing.

**NOTE** Setting range : 01 P~20 P.  
Default value : 01 P.



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



- **EX : Set the sensor point value from 01 P to 06 P.**
- Press the **button** for 3 seconds to go back to the tire circumference and sensing point screen.



- The tire circumference and sensing point screen



## 5-5 Speeding Warning Setting



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



- **Example : To set speeding warning value to 51 MPH.**
- Press the **button for 3 seconds** to move to the digit you want to set.

⚠ Now the setting value is flashing.

**NOTE** Setting range : 30~160 km/h (19~100 MPH).  
Default value : 60 km/h (38 MPH).



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



- EX : Set speed warning value from 38 MPH to 51 MPH.
- Press the **button for 3 seconds** to go back to the speed warning screen.



- The speeding warning screen.

## 5-6 Temperature Setting



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



- **Example : To set temperature 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 temperature function from OFF to ON .
- 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 temperature screen.

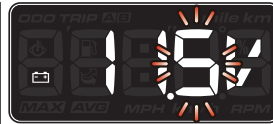


- The temperature screen.

## 5-7 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 : ON.



- 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 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.

## 5-8-1 Fuel Setting (Fuel Gauge Resistance (Ω) / Low Fuel Warning)



- In the fuel screen, press the **button for 3 seconds** to enter the fuel gauge resistance setting.



- **Example : To set low fuel warning value to 30% .**
- Press the **button** to choose the setting number.

⚠ Now the setting value is flashing.

**NOTE** Setting range : 0~30%.  
Default value : 10%.



- **Example : If the vehicle is a 2002 Road King, its resistance is 250 Ω according to the service manual.**
- Press the **button** to choose the setting number.

⚠ Now the setting value will blink.

**NOTE** Settings range : 100 Ω, 250 Ω, 270 Ω, 390 Ω, 510 Ω, 1200 Ω, SW, Custom, OFF.  
Default value : 100 Ω.

**NOTE** When the fuel wire is not connected, the fuel meter will display --%.



- EX : Set low fuel warning value from 10% to 30%.
- Press the **button for 3 seconds** to go back to the fuel screen.



- EX : Set fuel gauge resistance value to 100 Ω.
- Press the **button for 3 seconds** to enter the low fuel warning setting.

**NOTE** If the setting is Custom, it will enter the 5-8-2 (auto) and 5-8-3 (manual) operation setting.



- The fuel screen.

## 5-8-2 Fuel Gauge Resistance Setting (Auto Detection)



- Press the **button for 3 seconds** to enter the fuel gauge resistance setting(auto detection).

### CAUTION!

- Before detection, ensure that your current fuel level is in the lowest position that you would like to have.
- Stop the vehicle for a few seconds to allow the fuel surface to become steady, then start the detection of the resistance.

P.S.



- If the fuel surface sensor floats in the lowest position then press the **button**, it will detect the resistance around 90 Ω.

The lowest position →



- EX : Auto Detection the lowest fuel level resistance value is 90 Ω.
- Hold and press the **button 5 times** to enter the highest fuel level resistance auto detection screen.

P.S.



The highest position →



- If the fuel surface sensor floats in the highest position then press the **button**, it will detect the resistance around 10 Ω.



- EX : Auto Detection the highest fuel level resistance value is 10 Ω.
- Hold and press the **button 5 times** to enter the low fuel warning setting.

## 5-8-3 Fuel Gauge Resistance Setting (Manual)



- In the fuel gauge resistance setting(auto detection), press the **button for 3 seconds** to enter the fuel gauge resistance setting (manual).



- Example : To set the lowest fuel level resistance value as 90 Ω.
- Press the **button for 3 seconds** to move to the digit you want to set.
- Now the setting value is flashing.



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



- EX : Set the lowest fuel level resistance value from 80 Ω to 90 Ω.
- Hold and press the **button twice** to enter the highest fuel level resistance setting.



- Example : To set the highest fuel level resistance value as 10 Ω.
- Press the **button for 3 seconds** to move to the digit you want to set.
- Now the setting value is flashing.



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



- EX : Set the highest fuel level resistance value to 10 Ω.
- Press the **button for 3 seconds** to enter the low fuel warning setting.

## 5-9 Warning Light Setting

• In the warning light screen, press the **button for 3 seconds** to enter the warning light setting.

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

• Press the **button for 3 seconds** to confirm selection.

⚠ Now the setting value is flashing.

**NOTE** Setting range : Low Fuel(LFUEL), Low voltage(VOLT), Overheat(TEMP)  
Default value : Low Fuel(LFUEL).

• Press the **SELECT button** to choose the setting number.

• Press the **button for 3 seconds** to go back to the warning light screen.

⚠ Now the setting value is flashing.

**NOTE** Setting range : Slow Flash(S), Fast Flash(F), Lit.(L), OFF  
Default value : Slow Flash(S)

• The warning light screen.

## 5-10 Internal and External ODO Setting

### Internal ODO

• In the internal and external ODO screen, press the **button for 3 seconds** to enter the internal and external ODO setting.

• Press the **button for 3 seconds** to enter the internal ODO screen.

• Press the **button for 3 seconds** to go back to the internal and external ODO screen.

⚠ User unable to adjust or clear internal ODO.

**NOTE** Display range : 0 ~ 99,999 km (mile).

• The internal and external ODO screen.

### External ODO

• In the internal and external ODO screen, press the **button for 3 seconds** to enter the internal and external ODO setting.

• Press the **button for 3 seconds** to enter the external ODO setting.

• Example : To set external total distance value to 12,500 km.

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

⚠ Now the setting value is flashing.

**NOTE** Cursor's order : one hundred thousand → ten thousands → thousand → hundred → ten → digit.

**NOTE** Setting range : 0 ~ 99,999 km (mile).

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

• EX : Set external total distance value from 00,000 km to 12,500 km.

• Press the **button for 3 seconds** to go back to the internal and external ODO screen.

• The internal and external ODO screen.

## 6 Troubleshooting

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
<p>The meter doesn't work when the power is on.</p> <p>The meter shows wrong information.</p> <p>Speed meter doesn't appear or appears incorrectly.</p> <p>Thermometer doesn't appear or appear incorrectly.</p>	<ul style="list-style-type: none"> <li>●The power isn't supplied to the meter. →Make sure the wiring is connected. The wiring and fuse are not broken.</li> <li>→The battery is too old to supply needed power (DC 12 V).</li> <li>●Check the voltage of your battery, and make sure the voltage is over DC 12 V.</li> <li>●May be poor connection of the speed sensor. →Check if the speed sensor is connected correctly.</li> <li>●Check the setting. →Refer to the manual 5-4 Tire circumference, Sensor point setting.</li> <li>●Make sure the temperature wire is connected properly. →Check if the temperature wire is connected correctly.</li> <li>●Check the setting. →Refer to the manual 5-6 Temperature setting.</li> </ul>	<p>Fuel meter doesn't display or display error.</p> <p>The clock is incorrect.</p> <p>The meter indicator doesn't display.</p>	<ul style="list-style-type: none"> <li>●Check your fuel tank.</li> <li>●May be poor connection of the harness. →Make sure the wires are connected correctly.</li> <li>●Check the setting. →Check the settings menu if the fuel settings are correct.</li> <li>●Check the setting. →Check the settings menu if the clock settings are correct.</li> <li>●May be due to the reversed power line. →Check if the positive wire(Red) connects to the battery(DC 12 V), and main switch positive wiring(Brown) connects to the main switch(DC 12 V).</li> <li>●May be poor connection of the harness. →Make sure the wires are connected correctly.</li> </ul>

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