



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

**⚠ Attention!**

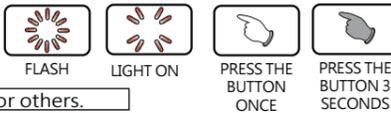
1. For installation, please follow the steps described. Any damage caused by wrong installation shall be imputed to the users.
2. Do not disassemble or change any parts.
3. Opening the instrument will void any warranty. Maintenance or repair should be executed by our professionals only.

◎ **SYMBOL DESCRIPTION:**

**NOTE** The symbols indicate additional instructions.

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

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



**1-1 Accessories**

<b>1</b> LCD Meter X1	<b>2</b> Main wiring harness X 1	<b>3</b> Active speed sensor X1	<b>4</b> RPM wire (Type A) X1
<b>5</b> RPM wire set (TYPE B) X1	<b>6</b> Sensor wire set X1	<b>7</b> Temperature sensor X1	<b>8</b> Meter external switch (Dual buttons type) X1
<b>9</b> Rubber strip X1	<b>10</b> M8 / S type speed sensor bracket X 1	<b>11</b> M10 / S type speed sensor bracket X 1	<b>12</b> M5x5xP0.8 Hexagon screw X 2
<b>13</b> 2.5 mm Allen key X 1	<b>14</b> 3 mm Allen key X1	<b>15</b> Meter bracket X1	<b>16</b> M4X12Lmm Screw X3
<b>17</b> M5 washer X3	<b>18</b> M6 X 35L Screw X2	<b>19</b> M8 X 30L Screw X2	<b>20</b> M6 Screw X2
<b>21</b> M8 Screw X2	<b>22</b> M6 Gasket X2	<b>23</b> M8 Gasket X2	

**NOTE** Contact your local distributor, if the items received in the box are not the same as the items listed above.

**1-2 Optinal accessories**

<b>1</b> L type speed sensor bracket BI003S01	<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 BG*****	<b>3</b> Water temp sensor adapter M14 M16. M18 M22. M26 mm BG0*****	<b>4</b> Signal connect wire 20-c94300a
<b>5</b> Oxygen sensor X 1 (WALKER, SMG) 28-bk00210	<b>6</b> Sensor bung bf003r000e	<b>7</b> Screw cap ba550r020e	

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

**2-1 Wiring Installation Instructions**

**Main switch wiring reference:**

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

**RPM wiring reference:**

		BUELL	Pink
YAMAHA	Yellow / Black		
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
BENNEL	Gray / Violet		

**Fuel indicator wiring reference:**

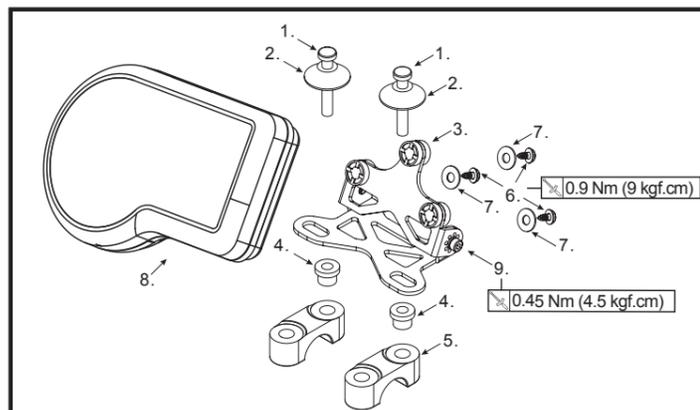
		KYMCO	Yellow / White
YAMAHA	Green		
HONDA	Yellow / White	SYM	Yellow / White
SUZUKI	Yellow / White	PGO	Gray
KAWASAKI	Black / L Green		

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

**NOTE** When connecting the power wire, please follow carefully 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.
- Connect the RPM wire (Type A) on the spark plug wire by connecting the male and female connectors.
  - Connect the RPM wire (Type B) to the pick up sensor.
  - Connect in parallel the RPM wire (Type A) with the original tachometer signal wire.
- The best signal source will be in order as C>B>A, we will suggest that you check different ways if you have problems getting the RPM signal.**

## 2-2 Installation instructions



### Follow the steps below during installation.

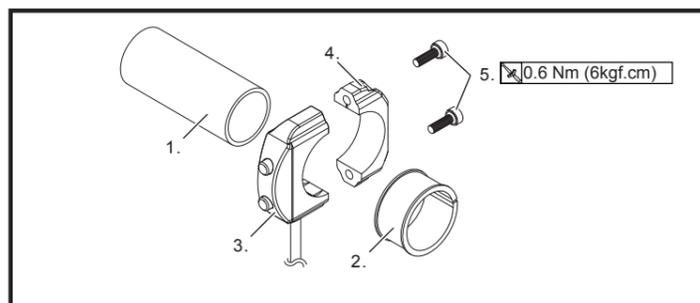
1. M6 or M8 Screw X2 (Accessory 18,19)
2. M6 or M8 Screw X2 (Accessory 20,21)
3. Meter bracket (Accessory 15)
4. M6 or M8 Gasket X2 (Accessory 22,23)
5. Handle bar bracket

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

6. M4 screw X 3 (Accessory 16)
7. M5 washer X3 (Accessory 17)
8. LCD Meter (Accessory 1)
9. Meter bracket micro-adjustment screw

**NOTE** You can 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 the model. We suggest you to use the additional assembly (item 1.2.4) to fit it.



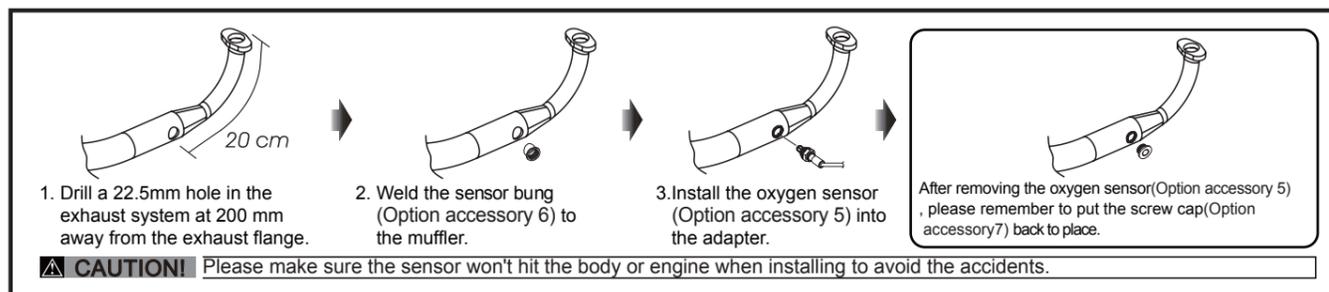
### Follow the steps below during installation.

1. Handle bar
2. Rubber strip (Accessory 9)
3. Meter external switch (Dual buttons type)-Upper case (Accessory 8)
4. Meter external switch (Dual buttons type)-Bottom case (Accessory 8)
5. M3x12xP0.5 mm screw

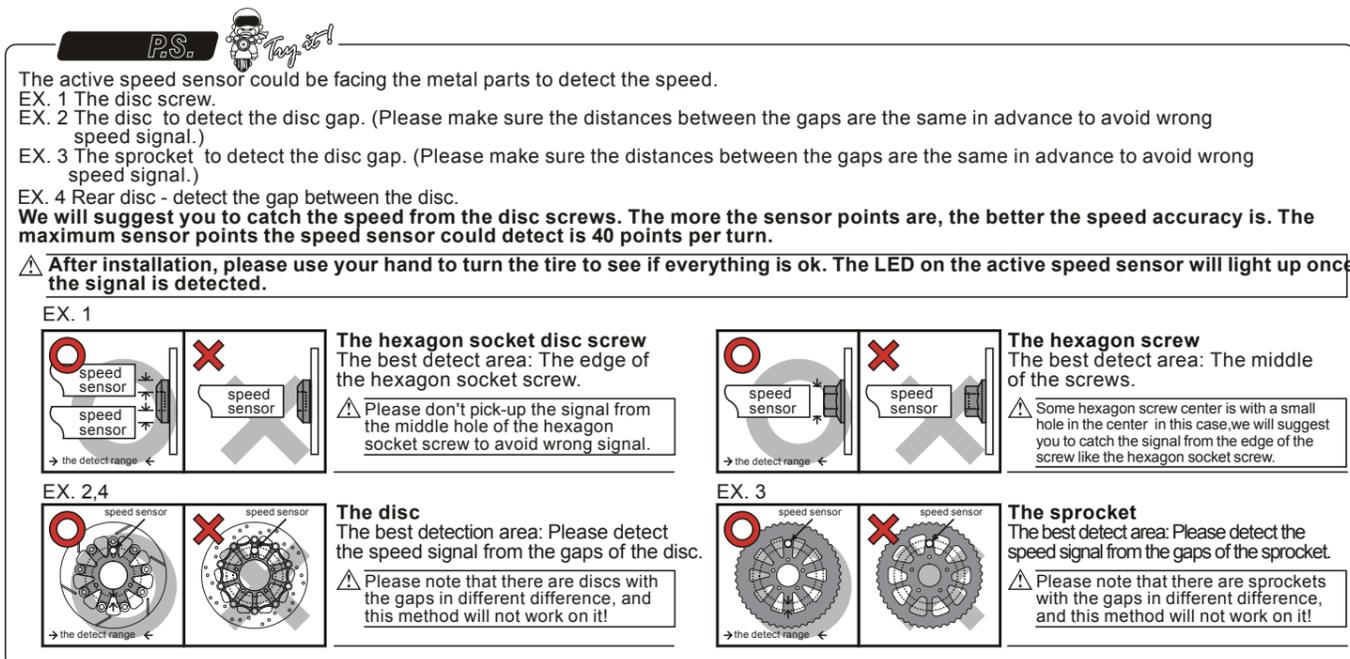
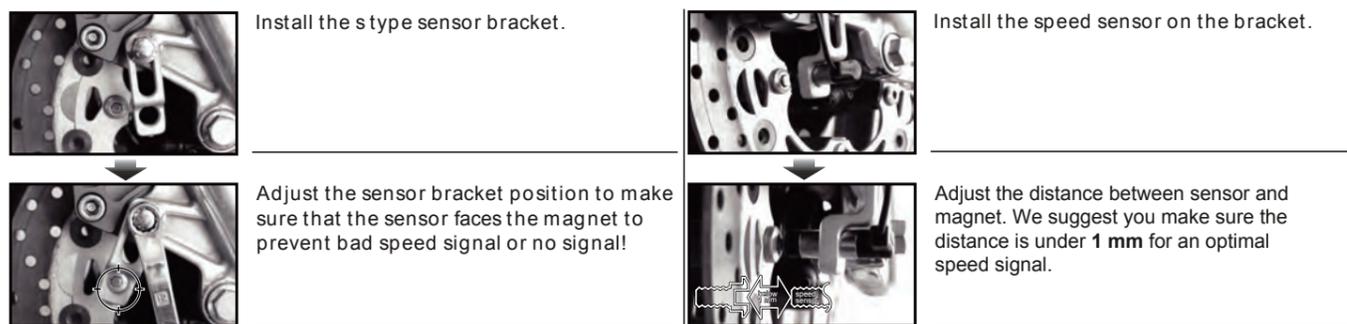
**CAUTION!** Total length of wiring is 600 mm. Please pay attention to the distance between the wire exit hole and the end of handlebar to avoid the occurrence of insufficient wire length.

**NOTE** Do not need the Rubber strip (Accessory 9) if the handle bar is 1 inch.

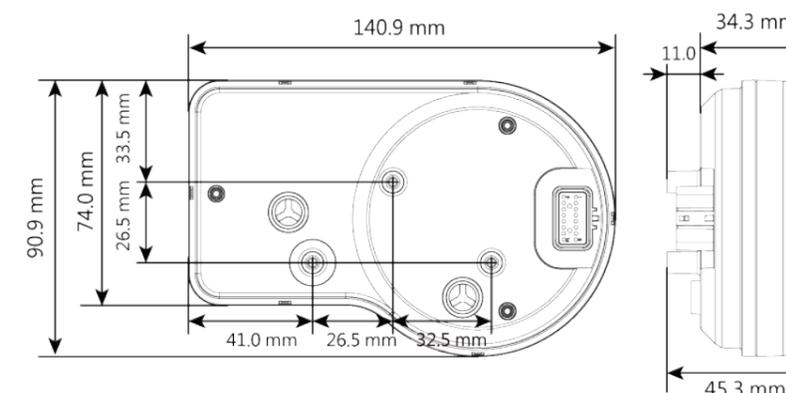
## 2-3 Oxygen Sensor Installation



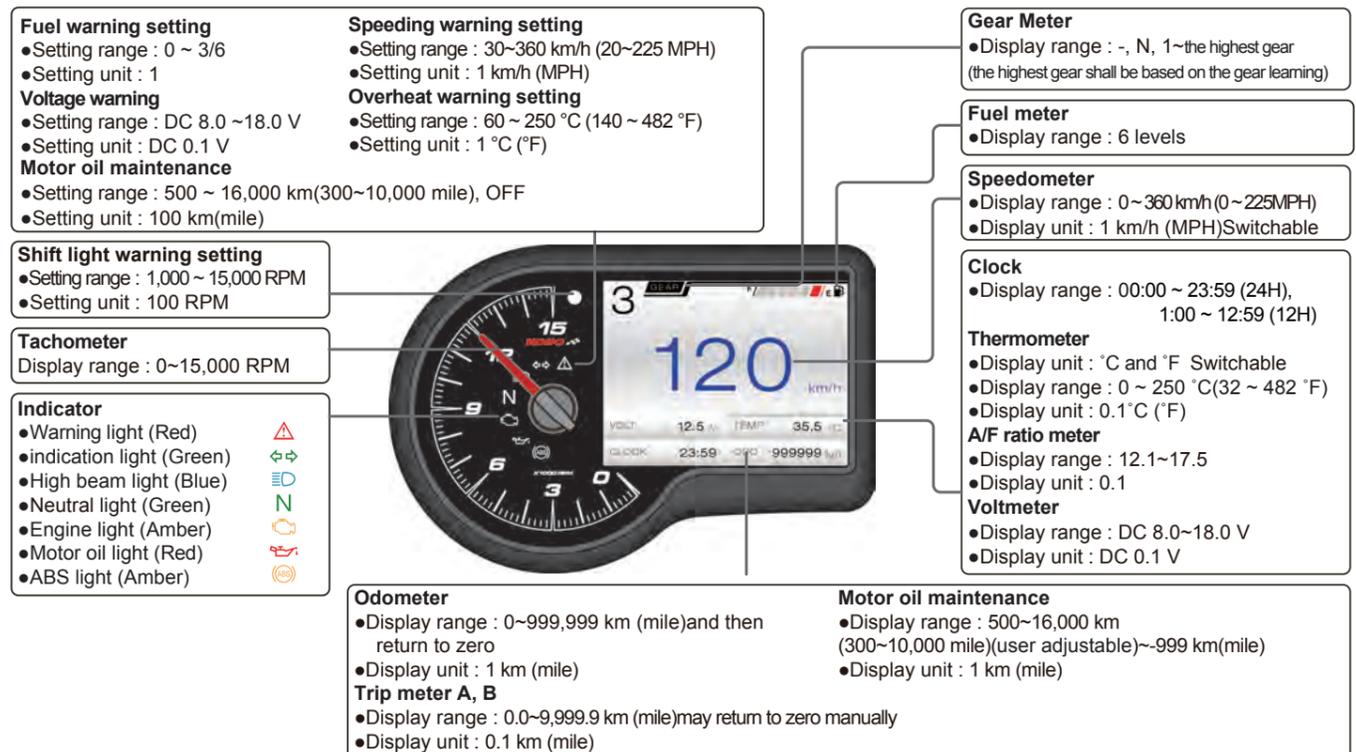
## MOTO / SCOOTER S type speed sensor bracket instruction



## 3-1 Meter Size



## 3-2 Basic Function Instruction

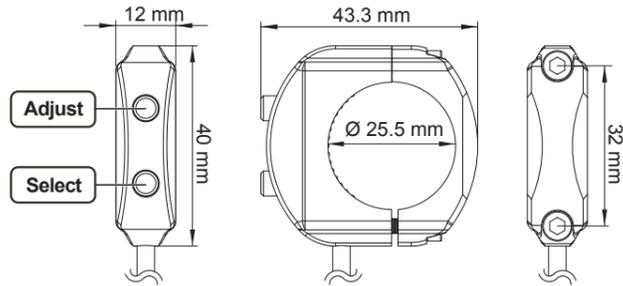


### 3-3 Specifications(Meter)

● Speedometer	Display range : 0 ~ 360 km/h (0 ~ 225 MPH) Display unit : 1 km/h (MPH) Switchable	● Clock	Setting range : 00:00~23:59 (24H) 1:00~12:59 (12H)
○ Odometer	Display range : 0 ~ 999,999 km (mile) and then return to zero Display unit : 1 km (mile)	● Voltmeter	Display range : DC 8.0 ~ 18.0 V Display unit : DC 0.1 V
○ Trip meter A, B	Display range : 0~9,999.9 km (mile), may return to zero manually Setting unit : 0.1 km (mile)	○ Low voltage warning	Setting range : DC 8.0~13.0 V Setting unit : DC 0.1 V
○ Motor oil maintenance	Setting range : 500 ~ 16,000 km(300~10,000 mile),OFF Setting unit : 100 km(mile)	○ high voltage warning	Setting range : DC 13.1~18.0 V Setting unit : DC 0.1 V
○ Speeding warning setting	Setting range : 30~360 km/h (20~225 MPH) Setting unit : 1 km/h (MPH)	● Target speed	Setting range : 30 ~ 360 km/h (20 ~ 225 MPH) Setting unit : 5 km/h (MPH)
○ Max. speed record	Display range : 0 ~ 360 km/h (0 ~ 225 MPH) Display unit : 1 km/h (MPH)	● Target distance	Setting range : 50 ~ 1,500 m (1/32 ~ 30/32 mile) Setting unit : 50 m (1/32 mile)
○ Circumference	Setting range : 300~2,500 mm Setting unit : 1 mm	● Top speed	Display range Speed : 0 ~ 360 km/h (0 ~ 225 MPH) Distance : 0 ~ 999 m (0~3,280 feet) Rotating speed : 0 ~ 15,000 RPM Time : 0 ~ 9 : 59"99
○ Sensitive point	Setting range : 1~40 P Setting unit : 1 P	● Background display	Setting range : Auto(automatically switch according to the light : day mode display for the bright environment and Night mode display for the dark environment), Day mode, Night mode.
● Gear Meter(Learning)	Display range : -, N, 1~the highest gear, (the highest gear shall be based on the gear learning)	○ Back light brightness (Day)	Setting range : 3/5~ 5/5(Brightest) Setting unit : 1/5
○ Max. Gear record	Display range : -, N, 1~the highest gear (the highest gear shall be based on the gear learning)	○ Back light brightness (Night)	Setting range : 1/5(Darkest) ~ 5/5(Brightest) Setting unit : 1/5
● Tachometer	Display range : 0~15,000 RPM	○ Back light color	Setting range : white, red, orange,green,blue, Loop switch
○ Shift light warning setting	Display range : Steady, Fast Flash Setting range : 1,000~15,000 RPM Setting unit : 100 RPM	● Unit	Speed unit : km/h , MPH Temperature unit : °C (Celsius) and °F (Fahrenheit)
○ Max. rotating speed	Display range : 0~15,000 RPM (At the MAX screen, the pointer shows the highest speed recorded so far.)	● Voltage	DC 12 V
○ The RPM input signal number setting	0.5,1.0~24.0	● Operating temperature	-10 ~ +60 °C
○ The RPM input pulse	Setting range : Low-Act, High-Act	● Specification	JIS D 0203 (S2)
● Thermometer	Display range : 0 ~ 250.0 °C (32.0 ~ 482.0 °F) Display unit : 0.1 °C (°F)	● Meter Size	140.9 x 90.9 x 45.3 mm
○ Overheat warning setting	Setting range : 60 ~ 250 °C (140 ~ 482 °F) Setting unit : 1 °C (°F)	● Meter Weight	Around 188 g
○ Max. temperature record	Display range : 0 ~ 250 °C (32.0 ~ 482 °F)	● Indicator	indication light (Green)  High beam light (Blue)  Neutral light (Green)  Engine light (Amber)  Motor oil light (Red)  ABS light (Amber) 
● A/F ratio meter	Display range : 12.1~17.5 Display unit : 0.1	○ Composite warning light	OFF, Fast Flash, Steady, Slow Flash/(Red) 
● Fuel meter	Display range : 6 levels Display unit : 1 level(16.6 %) Setting range : OFF, 100 Ω, 250 Ω, 270 Ω, 510 Ω, 1200 Ω, SW, learning mode, OFF	○ Over-running light + light sensing	Fast Flash, Steady/(Red) 
○ Fuel warning setting	Setting range : 0 ~ 3/6 Setting unit : 1		

**NOTE** Any design and specification changes, will not be notify.

### 3-4 Size, Specifications(Meter External Switch)



● Effective temperature range	-10 ~ 60 °C
● Standard	JIS D 0203
● Effective voltage	DC 8 ~ 32V / Max. 50 mA / 1.6W
● Size	About 43.3 x 40 x 12 mm
● Weight	About 36 g

**NOTE** Meter external switch (Accessory 8) is suitable for 7/8 & 1 inch handlebar.

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

### 3-5 Buttons Function Description

● **Press the Adjust button.**  
Record Screen→Switch to Target speed, Target distance, and Top speed in a cycle.  
Setting Screen→Switch to setting function.  
Setting function screen→Increase the value in a cycle.

● **Press the Adjust button for 3 seconds.**  
Main screen→1. Enter the fast setting for Clock and Backlight.  
2. Return to the main screen from fast setting.  
Record Screen→Enter the fast setting for Target distance, Target speed and Top speed.  
Setting screen→Switch to the startup screen.

● **Press and hold the Adjust button.**  
Setting function screen→Accumulate the value, switch options in a cycle.

● **Press the Select button.**  
Main screen→Switch to ODO, TRIP A, TRIP B, TRIP O, and MAX in a cycle.  
Record Screen→Enter the testing screen.  
Setting Screen→Switch to setting function.  
Setting function screen→Confirm selection and switch to the next functional option on the same page in a cycle.

● **Press the Select button for 3 seconds.**  
Main screen→Individually clear or reset TRIP A, TRIP B, TRIP O, or MAX records.  
Record Screen→Individually clear Target distance, Target speed, or Top speed records.  
Checking Screen→Enter the MAX. record clear screen.  
Setting Screen→Enter the setting function screen.  
Setting function screen→Go back to the setting screen.

● **Press the Adjust + Select buttons.**  
Main screen→Switch to record Screen.  
Record Screen→Switch to checking screen.  
Checking Screen→Switch to main screen.

● **Press the Adjust + Select buttons for 3 seconds.**  
Main screen→Switch to setting screen.  
Record Screen→Switch to setting screen.  
Checking Screen→Switch to setting screen.

### 4 Startup Screen Switching Description



● In the main screen, press the **Adjust+ Select button** to enter the record screen.



● In the checking screen, press the **Adjust+ Select buttons** to go back to the main screen.



● In the record screen, press the **Adjust+ Select button** to enter the checking screen.



● In the main screen.

### 4-1 Main Menu Switching Description



● In the ODO screen, press the **Select button** to enter the Trip A screen.



● In the Max. record screen, press the **Select button** to go back to the ODO screen.  
● Press the **Select button for 8 seconds** to reset Max. record screen.



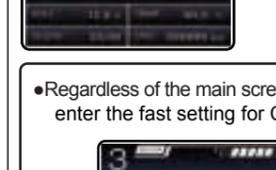
● In the Trip A screen, press the **Select button** to enter the Trip B screen.  
● Press the **Select button for 3 seconds** to reset Trip A screen.



● In the ODO screen.



● In the Trip B screen, press the **Select button** to enter the motor oil maintenance screen.  
● Press the **Select button for 3 seconds** to reset Trip B setting.



● Regardless of the main screen, press the **Adjust button for 3 seconds** to enter the fast setting for Clock and Backlight.



● In the motor oil maintenance screen, press the **Select button** to enter the Max. record screen.  
● Press the **Select button for 3 seconds**, to reset motor oil maintenance screen.



## 4-2 Record Screen Switching Description(Target Speed, Target Distance, Top Speed)

- In the main screen, press the **Adjust+Select** button to enter the target speed record screen.
- In the target speed record screen, press the **Adjust** button to enter the target distance record screen.
- In the target distance record screen, press the **Adjust** button to enter the top speed record screen.
- In the top speed record screen, press the **Adjust +Select** button to enter the checking screen.
- In the checking screen.
- Regardless of the record screen, press the **Adjust** button for 3 seconds to enter the Power Test fast setting.

### 4-2-1 Description Of Target Speed Test

- In the target speed record screen, press the **Select** button to enter the testing screen.
  - NOTE** Start the test when the bike is fully stopped.
- In the testing screen.
  - WARNING!** Use this function on racetracks to avoid accidents.
- When the bike moves, the timer will start automatically.
  - NOTE** The timer is automatic, so when your bike starts to move the timer will start to calculate the time and stop automatically when you stop the bike.
- Speed up.
- When you reach the target speed that you set (0~110 km/h), the timer will stop (19'20 second).
- When speed decreases to 0 km/h (MPH), the target speed record screen will appear.
- In the target speed record screen.
  - Press the **Select** button for 3 seconds, to reset the target speed record.
- Press the **Adjust** button to cancel deletion.
  - Press the **Select** button to confirm deletion.
- Deletion succeeded.

### 4-2-2 Description Of Target Distance Test

- In the target distance record screen, press the **Select** button to enter the testing screen.
  - NOTE** Start the test when the bike is fully stopped.
- In the testing screen.
  - WARNING!** Use this function on racetracks to avoid accidents.
- When the bike moves, the timer will start automatically.
  - NOTE** The product adopts digital sensing; when the vehicle starts, the timer would immediately start measuring. Upon achieving the target distance, the timer would immediately stop measuring.
- Speed up.
- When the bike moves, the timer will start automatically.
- In the target distance record screen.
- Press the **Adjust** button to cancel deletion.
  - Press the **Select** button to confirm deletion.
- Deletion succeeded.

- When you reach the target distance that you set (100 M . 2/32 mile), the timer will stop (12'27 second).
- When speed decreases to 0 km/h (MPH), the target distance record screen will appear.

- In the target distance record screen.
- Press the **Select** button for 3 seconds, to reset the target distance record.
- Press the **Adjust** button to cancel deletion.
- Press the **Select** button to confirm deletion.
- Deletion succeeded.

### 4-2-3 Description Of Top Speed Test

- In the top speed record screen, press the **Select** button to enter the testing screen.
  - NOTE** Start the test when the bike is fully stopped.
- In the testing screen.
  - WARNING!** Use this function on racetracks to avoid accidents.
- When the bike moves, the timer will start automatically.
  - NOTE** Display range(Top speed) : Speed : 0 ~ 360 km/h (0 ~ 225 MPH)  
Distance : 0 ~ 999 m (0~3,280 feet)  
Rotating speed : 0 ~ 15,000 RPM  
Time : 0 ~ 9'59"99
  - The product adopts digital sensing; when the vehicle starts, the odometer and the timer would immediately start measuring. Upon achieving the maximum speed, the odometer and the timer would immediately stop measuring.
  - The speed unit of the function would change according to 5-2 Change in Speed Unit.
- Speed up.
- When you reach the top speed (100 km/h), the meter will stop counting the distance (510 m), and time (25'65 seconds).
- When speed decreases to 0 km/h (MPH), the top speed record screen will appear.
- In the top speed record screen.
  - Press the **Select** button for 3 seconds, to reset the top speed record.
- Press the **Adjust** button to cancel deletion.
  - Press the **Select** button to confirm deletion.
- Deletion succeeded.

- When you reach the top speed (100 km/h), the meter will stop counting the distance (510 m), and time (25'65 seconds).
- When speed decreases to 0 km/h (MPH), the top speed record screen will appear.
- In the top speed record screen.
- Press the **Select** button for 3 seconds, to reset the top speed record.
- Press the **Adjust** button to cancel deletion.
- Press the **Select** button to confirm deletion.
- Deletion succeeded.

### 4-3 Checking Screen Switching Description

- In the main screen, press the **Adjust+Select** buttons for 2 times to enter the checking screen.
- In the checking screen, press the **Adjust+Select** buttons to go back to the main screen.
- Press the **Select** button for 3 seconds to clear all MAX. record.

- In the main screen.

## 5 Setting Screen Switching Description

- Press the **Adjust + Select** buttons for 3 seconds on the main screen, record screen, or checking screen to switch to the setting screen.
- Press the **Adjust** button or **Select** button to select
- 1 Clock 2 Unit(Speed/Temperature) 3 Backlight(Mode/Brightness/Color) 4 Speeding warning 5 Shift light warning 6 Overheat warning 7 Voltage warning 8 Fuel warning 9 Motor oil maintenance 10 ABS warning 11 Warning light warning 12 Tire circumference(Sensing point) 13 Gear 14 RPM input pulse / signal impulse 15 Fuel resistance
- 16 A/F ratio 17 POWER TEST 18 Internal and External ODO and etc.
- Press the **Select** button for 3 seconds to enter the setting function screen.
- In the setting screen, press the **Adjust** button for 3 seconds to switch to the startup screen.

**NOTE** During setting, if button is not pressed in 3 minutes, it will automatically return to the startup screen.



### 5-1 Clock Setting

- The Clock screen, press the **Select** button for 3 seconds to enter the clock setting.
- **Example : To set clock(minute) as 10 minutes.**  
• Press the **Select** button to move to the digit you want to set.  
**NOTE** Setting range : 00~59 minutes. Default value : 0.
- **Example : Changing the 12H.**  
• Press the **Adjust** button to choose the setting number.  
**NOTE** Setting range : 12 H, 24 H. Default value : 24 H.
- EX : Set time format from 24 H to 12 H.  
• Press the **Select** button to enter time adjustment hour setting.
- **Example : To set clock(hour) as 10 hours.**  
• Press the **Adjust** button to choose the setting number.  
**NOTE** 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)
- EX : Set hour from 12:00 AM to 10:00 PM.  
• Press the **Select** button to enter clock adjustment minute setting.
- The Clock screen.

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

- The unit screen, press the **Select** button for 3 seconds to enter the speed unit setting.
- **Example : To set temp. unit to °F.**  
• Press the **Adjust** button to choose the setting options.  
**NOTE** Setting range : C (Celsius) and °F (Fahrenheit). Default value : °C (Celsius).
- EX : Set speed unit as MPH.  
• Press the **Adjust** button to choose the setting options.  
**NOTE** Setting range : km/h, MPH. Default value : km/h.
- EX : Set temp. unit from °C (Celsius) to °F (Fahrenheit).  
• Press the **Select** button to go back to the unit (speed, temp.) screen.
- The unit (speed, temp.) screen.

### 5-3 Backlight Setting(Mode/Brightness/Color)



- The backlight screen, press the **Select** button for 3 seconds to enter the background mode setting.



- Example : To set the mode to Night mode.**
- Press the **Adjust** button to choose the setting options.
- ⚠ Now the setting value is flashing!
- NOTE** Setting Auto(automatically switch according to the light : day mode display for the bright environment and Night mode display for the dark environment), Day mode, Night mode. Default value : Auto.



- EX : Set background from Auto mode to Night mode.
- Press the **Select** button to enter the backlight brightness (day) setting.



- Example : To set the backlight brightness (day) at 4(80%).**
- Press the **Adjust** button to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 3~ 5 (Brightest). Setting unit : 20% per level. Default value : 5(100%).
- NOTE** The backlight brightness will change immediately after you set the value.



- EX : The backlight brightness (day) setting is changed from 5 (100%) to 4 (80%).
- Press the **Select** button to enter the backlight brightness (night) setting.

### 5-4 Speeding Warning Setting



- From the backlight screen, press the **Select** button for 3 seconds to enter the speeding warnin setting.



- Example : To set speeding warning value to 80 KPH.**
- Press the **Select** button to move to the digit you want to set.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 30~360 km/h (20~225 MPH). Default value : 60 km/h (38 MPH).



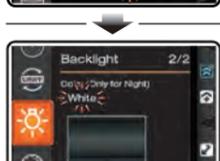
- Press the **Adjust** button to choose the setting number.



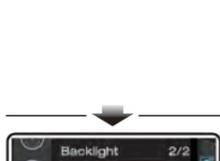
- Example : To set the backlight brightness (night) at 2(40%).**
- Press the **Adjust** button to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 1 (Darkest) ~ 5 (Brightest), 5 different levels available. Setting unit : 20% per level. Default value : 3(60%).
- NOTE** The backlight brightness will change immediately after you set the value.



- EX : The backlight brightness (night) setting is changed from 3 (60%) to 2 (40%).
- Press the **Select** button to enter the backlight color setting.



- Example : To set backlight color to blue.**
- Press the **Adjust** button to choose the color .
- ⚠ Now the setting value is flashing!
- NOTE** Switch color according to the following order, white, red, orange, green, blue.
- NOTE** Default value : White.
- NOTE** The backlight color will change immediately after you set the value.



- EX : Set backlight color from white to blue.
- Press the **Select** button to go back to the backlight screen.

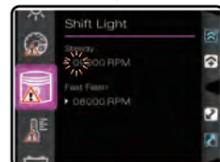


- The backlight screen.

### 5-5 Shift Light Warning Setting



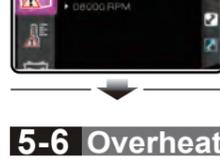
- The shift light warning screen, press the **Select** button for 3 seconds to enter the shift light warning(Steady) setting.



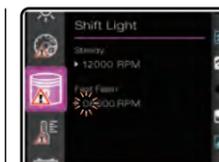
- Example : To set shift light warning (Steady) value to 12,000 RPM.**
- Press the **Select** button to move to the digit you want to set.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 1,000~15,000 RPM. Default value : 9,000 RPM.



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



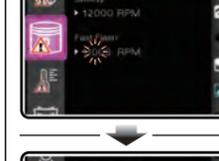
- EX : Set shift light warning(Steady) value from 9,000 RPM to 12,000 RPM.
- Press the **Select** button to enter the shift light warning(Fast Flash) setting.



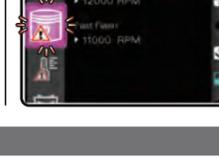
- Example : To set shift light warning (Fast Flash) value to 11,000 RPM.**
- Press the **Select** button to move to the digit you want to set.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 1,000~15,000 RPM. Default value : 8,000 RPM.
- ⚠ It will flash when it reaches the shift light value.



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



- EX : Set shift light warning(Fast Flash) value from 8,000 RPM to 11,000 RPM.
- Press the **Select** button to go back to the shift light warning screen.



- The shift light warning screen.

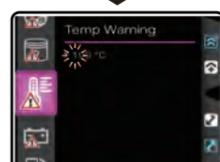
### 5-6 Overheat Warning Setting



- The overheat warning screen, press the **Select** button for 3 seconds to enter the overheat warning setting.



- Example : To set overheat warning value to 120 °C.**
- Press the **Select** button 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 **Adjust** button to choose the setting number.



- EX : Set overheat warning value from 90 °C to 120 °C.
- Press the **Select** button to go back to the overheat warning setting.



- The overheat warning screen.

### 5-7 Voltage Warning Setting



- The voltage warning screen, press the **Select** button for 3 seconds to enter the low voltage warning setting.



- Example : To set low voltage warning value to DC 11.0 V.**
- Press the **Adjust** button to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : DC 8.0~13.0 V. Default value : DC 11.5 V.



- EX : Set low voltage warning value from DC 11.5 V to DC 11.0 V.
- Press the **Select** button to enter the high voltage warning setting.

---



- Example** : To set high voltage warning value to DC 16.0 V.
- Press the **Adjust** button to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : DC 13.1~18.0 V. Default value : DC 15.0 V.



- EX : Set high voltage warning value from DC 15.0 V to DC 16.0 V.
- Press the **Select** button to go back to the voltage warning screen.

---



- The voltage warning screen.

### 5-8 Low Fuel Warning Setting



- The low fuel warning screen, press the **Select** button for 3 seconds to enter the low fuel warning setting.

---



- Example** : To set low fuel warning value to 3/6.
- Press the **Adjust** button to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 0/6 ~ 3/6. Default value : 1/6.



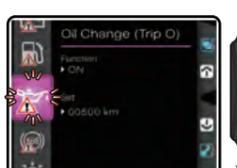
- EX : Set low fuel warning value from 1/6 to 3/6.
- Press the **Select** button to go back to the low fuel warning screen.

---



- The low fuel warning screen.

### 5-9 Motor Oil Maintenance Setting



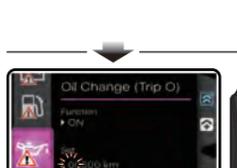
- The motor oil maintenance screen, press the **Select** button for 3 seconds to enter the motor oil maintenance setting.

---



- Press the **Adjust** button, and select whether to turn on the motor oil maintenance function.
- Select ON to enter the motor oil maintenance setting.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : ON, OFF. Default value : ON.

---



- Example** : To set motor oil maintenance as 1,200 km.
- Press the **Select** button to move to the digit you want to set.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 500 ~ 16,000 km (300~10,000 mile). Default value : 500 km(300 mile).



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

---



- EX : The motor oil maintenance setting is changed from 500 km to 1,200 km.
- Press the **Select** button to go back to the motor oil maintenance screen.

---

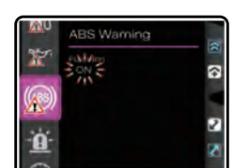


- The motor oil maintenance screen.

### 5-10 ABS Warning Setting



- The ABS warning screen, press the **Select** button for 3 seconds to enter the ABS warning setting.



- Press the **Adjust** button, and select whether to turn on the ABS warning function.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : ON, OFF. Default value : ON.
- ⚠ When choosing ON, the ABS signal light  would light.



- Press the **Select** button to go back to the ABS warning screen.



- The ABS warning screen.

### 5-11 Warning Light Warning Setting



- The warning light warning screen, press the **Select** button for 3 seconds to enter the warning light warning setting.

---



- Press the **Adjust** button to choose the setting number.
- Press the **Select** button to confirm selection.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : OFF, Fast Flash, Steady, Slow Flash. Default value :

  1. Overspeed : OFF
  2. Temp Warning : OFF
  3. Volt Warning : OFF
  4. Low Fuel Warning : OFF
  5. Trip oil : OFF

- NOTE** Priority setting range :  
 1. FF > S > SF / 2. FF > SF > S /  
 3. S > FF > SF / 4. S > SF > FF /  
 5. SF > FF > S / 6. SF > S > FF  
 Default value : FF>S>SF  
 ※FF=Fast Flash / S=Steady / SF=Slow Flash /



- Press the **Select** button to go back to the warning light warning screen.

---



- The warning light warning screen.

### 5-12 Tire Circumference and sensing point setting



- The tire circumference and sensing point screen, press the **Select** button for 3 seconds to enter the tire circumference and sensing point setting.
- ⚠ **CAUTION!**
- Please measure the tire circumference (The tire you will install the sensor on) and make sure the number of sensor point.
- The speed displayed on the meter will be affected by the setting, please make sure the setting number is correct before you enter the setting.
- ⚠ Please reset this setting value if you change to a different tire size.

---



- Example** : If the tire circumference is 1,300 mm.
- Press the **Select** button to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 300~2,500 mm. Default value : 1,000 mm.



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

---



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

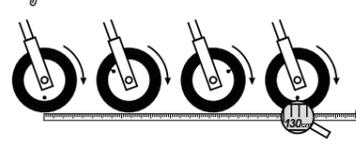
---



- Example** : To set the sensor point value to 06 P.
- Press the **Select** button to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 01 P~40 P. Default value : 01 P.

**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 **Adjust** button to choose the setting number.



- EX : Set the sensor point value from 01 P to 06 P.
- Press the **Select button** to enter the learning mode setting.



- Press the **Adjust button** to start the learning mode.



- Please ride for 1 km(1 mile); after the arrival, press the **Select button** for 3 seconds. Complete learning by return to the tire circumference and sensing point screen.
- Press the **Adjust button** for 3 seconds to cancel learning.

**NOTE** When mile is set for the unit, please ride for 1 mile.



- The tire circumference and sensing point screen.

### 5-13 Gear Setting



- The gear screen, press the **Select button** for 3 seconds to enter the gear setting.



- Example : You want to set the gear setting to ON.
- Press the **Adjust button** to choose the setting options.

Now the setting value is flashing!

**NOTE** Setting range : ON, OFF. Default value : ON.

**NOTE** Select OFF to return to the gear screen.



- 1 → 2 ○Please change to Gear 2.
- 2 → 3 ○Please change to Gear 3.
- 3 → 4 ○Please change to Gear 4.
- 4 → 5 ○Please change to Gear 5.
- 5 → 6 ○Please change to Gear 6.



- After reaching and finishing Gear 6, please wait for a few seconds to end gear-learning and return to the gear screen.



- The gear screen.



- EX : Set the gear setting to ON.
- Press the **Select button** to enter the gear-learning setting screen.



- Press the **Adjust button** to start the gear-learning setting.

**NOTE** Enter the Learning Mode, and learn the Gear position according to the speed and RPM.



- In the gear-learning setting.

**CAUTION!** Before setting, be sure to put your motor in Neutral to avoid error detection.

**CAUTION!** "Fail" on the screen means error detection, please re-set Gear-Learn.

**CAUTION!** If gear learning is not required, press **Adjust and hold for 3 seconds** to cancel the gear learning.

- When N→1 appears, please change to Gear 1 to ride. When Gear 1 is detected, 1→2 appears and then change to Gear 2.

### 5-14 RPM Input Pulse & Signal Impulse



- The RPM input pulse & signal impulse screen, press the **Select button** for 3 seconds to enter the RPM input pulse & signal impulse setting.



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

Now the setting value is flashing!

**NOTE** Setting range : P-0.5, 1.0~24.0. Default value : 1.0.

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 **Select button** to enter the signal impulse setting.



- Example : Set the signal impulse to Low-Act.
- Press the **Adjust button** to choose the setting options.

Now the setting value is flashing!

**NOTE** Setting range : High-Act, Low-Act. Default value : High-Act.



- EX : Set the signal impulse from High-Act to Low-Act.
- Press the **Select button** to go back to the RPM input pulse & signal impulse screen.



- The RPM input pulse & signal impulse screen.

### 5-15 Fuel Gauge Resistance Setting(Ω)



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



- Example: If the vehicle is a YAMAHA T-MAX 530, it's resistance is 100 Ω according to the 5-15-1 service manual.
- Press the **Adjust button** to choose the setting number.

Now the setting value is flashing!

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

**NOTE** Custome fuel level resistance:  
 1) Manual - Please check 5-15-2 Fuel Level Resistance Manual Setting Instructions.  
 2) Auto - Please check 5-15-3 Fuel Level Resistance Auto Setting Instructions.

**NOTE** If the fuel sensor wire is not plugged in, fuel level will display error.



- EX : Set fuel gauge resistance value to 100 Ω.
- Press the **Select button** to go back to the fuel gauge resistance screen.



- The fuel gauge resistance screen.

### 5-15-1 Fuel Gauge Resistance Reference

Manufactory	Model	The setting value	Manufactory	Model	The setting value
YAMAHA	JOG 50 , 100	100 Ω	KYMCO	GOING 100	510 Ω
	RS100	100 Ω		JR 100	510 Ω
	RSZ 100	100 Ω		SR G4 125	510 Ω
	SV MAX 125	100 Ω		V-LINK GP 125	510 Ω
	CYGNUS 125	100 Ω		KTR 150	100 Ω
	CYGNUS-X 125	100 Ω		Racing S 125, 150	1200 Ω
	GTR 125	100 Ω		Quannon 150	1200 Ω
	LC 135	100 Ω		G5 125 , 150	1200 Ω
	NEW LC 135	100 Ω		G6 150	100 Ω
	LAGENDA 110	100 Ω		VJR 50, 110	1200 Ω
	S-MAX 155	100 Ω	SYM	S-PRO 100	100 Ω
	T-MAX 530	100 Ω		Wolf 125	100 Ω
	MIO 110	100 Ω	PGO	TIGRA 125 , 150	700 Ω
	AEROX 50	100 Ω		X-HOT 125 , 150	100 Ω
	BW'S 125	100 Ω		I'ME 125	100 Ω
	FORCE 155	270 Ω		J BUBU 115	700 Ω
HONDA	MSX 125	270 Ω		G-MAX 125	100 Ω
	WAVE 110	510 Ω		G-MAX 150	700 Ω
	GN5 110	510 Ω	AEON	ELITE 250	100 Ω
	SH-150i	510 Ω		CO-IN 125	100 Ω
	PCX 125	100 Ω		MY 125 , 150	100 Ω
GILERA	RUNNER 50	100 Ω	GILERA	MINI 125	100 Ω
PEUGEOT	SPEEDFIGHT 50	100 Ω	PEUGEOT	HD 150	100 Ω
APRILIA	SR 50	100 Ω			
SUZUKI	V 125	100 Ω			

## 5-15-2 Fuel Gauge Resistance Setting (Manual)



- Press the **Select** button to enter the fuel gauge resistance setting (manual).
- Example** : For YAMAHA T-MAX 530, according to the service manual, the fuel tank resistance from low to high is 90 - 100  $\Omega$  (the lowest) and 4 - 10  $\Omega$  (the highest). So enter the setting value as 10  $\Omega$ .



- EX** : Set the lowest fuel level resistance value from 80  $\Omega$  to 90  $\Omega$ .
- Press the **Select** button twice to enter the highest fuel level resistance setting.



- Example** : To set the highest fuel level resistance value as 10  $\Omega$ .
- Press the **Select** button to move to the digit you want to set.
- Now the setting value is flashing!**



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



- EX** : Set the highest fuel level resistance value to 10  $\Omega$ .
- Press the **Select** button to go back to the fuel gauge resistance screen.



- The fuel gauge resistance screen.

**P.S.**

- You could find your fuel level sensor resistance range in the electronic components section in the service manual.
- Normally, we will recommend to choose the closest number set as the range to ensure that riders will not run out of gas before the fuel level indication. example, for YAMAHA T-MAX it's 90 - 100  $\Omega$  and 4 - 10  $\Omega$ , in which case we will suggest to use 90 - 10  $\Omega$  as the lowest and highest range.



- Example** : To set the lowest fuel level resistance value as 90  $\Omega$ .
- Press the **Select** button to move to the digit you want to set.
- Now the setting value is flashing!**



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

## 5-15-3 Fuel Gauge Resistance Setting (Auto Detection)



- Press the **Select** button 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.**

- For example of YAMAHA T-MAX 530, if the fuel surface sensor float in the lowest position then press the **Adjust** button, it will detect the resistance around 90  $\Omega$ .



The lowest position



- EX** : Auto Detection the lowest fuel level resistance value is 90  $\Omega$ .
- Press the **Select** button 5 times to enter the highest fuel level resistance auto detection screen.

**P.S.**

- The highest position
- For example of YAMAHA T-MAX 530, if the fuel surface sensor float in the highest position then press the **Adjust** button, it will detect the resistance around 10  $\Omega$ .




- EX** : Auto Detection the highest fuel level resistance value is 10  $\Omega$ .
- Press the **Select** button to go back to the fuel gauge resistance screen.



- The fuel gauge resistance screen.

## 5-16 A/F Ratio Setting



- The A/F ratio screen, press the **Select** button for 3 seconds to enter the A/F ratio setting.



- Press the **Adjust** button, and select whether to turn on the A/F ratio warning function.
- Now the setting value is flashing!**
- NOTE** Setting range : ON, OFF.  
Default value : OFF.
- If turn on AFR function, Thermometer will auto turn off.



- Press the **Select** button to go back to the A/F ratio screen.



- The A/F ratio screen.

## 5-17 Power Test Setting



- The Power Test screen, press the **Select** button for 3 seconds to enter the Power Test setting.



- Example** : To set target speed value to 110 km/h.
- Press the **Adjust** button to choose the setting number.
- Now the setting value is flashing!**
- NOTE** Setting range : 30~360 km/h (20~225 MPH).  
Default value : 50 km/h (30 MPH).



- EX** : Set target distance value from 50 m to 100 m.
- Press the **Select** button to enter the record order setting.



- Example** : To set record order to Best.
- Press the **Adjust** button to choose the setting options.
- Now the setting value is flashing!**
- NOTE** Setting range : Sequence, Best.  
Default value : Sequence.



- EX** : Set target speed value from 50 km/h to 110 km/h.
- Press the **Select** button to enter the target distance setting.



- EX** : Set record order from Sequence to Best.
- Press the **Select** button to go back to the Power Test screen.



- Example** : To set target distance value to 100 m.
- Press the **Adjust** button to choose the setting number.
- Now the setting value is flashing!**
- NOTE** Setting range : 50~1,500 m (1/32~30/32 mile).  
Default value : 50 m (1/32 mile).



- The Power Test screen.

## 5-18 Internal and External ODO Setting



- The internal and external ODO screen, press the **Select** button for 3 seconds to enter the external ODO setting.
- ⚠ User unable to adjust or clear internal ODO.
- NOTE** Display range :0~999,999 km (mile).



- EX : Set external total distance value from 10,000 km to 12,500 km.
- Press the **Select** button to go back to the internal and external ODO screen.

---



- Example** : To set external total distance value to **12,500 km**.
- Press the **Select** button to move to the digit you want to set.
- ⚠ Now the setting value is flashing!
- NOTE** Cursor's order : one hundred thousand→thousands→thousand→hundred→ten→digit.
- NOTE** Setting range : 0 ~ 999,999 km (mile).



- The internal and external ODO screen.

---



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

## 6 Trouble Shooting

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

Trouble	Check item	Trouble	Check item
<p><b>The meter doesn't work when the power is on.</b></p> <p>The meter shows wrong information.</p> <p><b>Speed meter doesn't appear or appears incorrectly.</b></p>	<ul style="list-style-type: none"> <li>•<b>The power isn't supplied to the meter.</b> →Please make sure the wiring is connected. <b>The wiring and fuse are not broken.</b></li> <li>→<b>The battery is too old to supply needed power (DC 12 V).</b></li> <li>•Check the voltage of your battery, and make sure the voltage is over DC 12 V.</li> <li>•<b>May be poor connection of the speed sensor.</b> →Please check the speed sensor is connected correctly.</li> <li>•<b>Check the setting.</b> →Refer to the manual 5-12 circumference and sensing point setting.</li> <li>•Make sure the RPM wire is connected properly. →Check the RPM wire wire 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>•Check the setting. →Refer to the manual 5-14 RPM input pulse, signal impulse.</li> <li>•<b>Make sure the temperature wire is connected properly.</b> →Please check the temperature wire is connected correctly.</li> <li>•<b>Check the setting.</b> →Refer to the manual 5-6 overheat warning setting.</li> </ul>	<p>A/F ratio doesn't appear or appear incorrectly.</p> <p><b>Fuel meter doesn't display or display error.</b></p> <p>The clock is incorrect.</p> <p><b>The meter indicator didn't display.</b></p>	<ul style="list-style-type: none"> <li>•Check the setting. →Refer to the manual 5-16 A/F ratio setting.</li> <li>•<b>Check your fuel tank.</b></li> <li>•<b>May be poor connection of the harness.</b> →Please make sure the wires are connected correctly.</li> <li>•<b>Check the setting.</b> →Please check the settings menu, the fuel settings are correct.</li> <li>•Check the setting. →Please check the settings menu, the clock settings are correct.</li> <li>•May be due to the reversed power line. →Please check 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>•<b>May be poor connection of the harness.</b> →Please make sure the wires are connected correctly.</li> </ul>
<p>Tachometer doesn't appear or appears incorrectly.</p> <p><b>Thermometer doesn't appear or appear incorrectly.</b></p>	<ul style="list-style-type: none"> <li>•<b>Make sure the temperature wire is connected properly.</b> →Please check the temperature wire is connected correctly.</li> <li>•<b>Check the setting.</b> →Refer to the manual 5-6 overheat warning setting.</li> </ul>		

※ If you can't resolve the problems according to the steps above, please contact your local distributors.