





•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 dissassembling this unit will void any warranty.
- Maintenance and repairs should be executed by our professionals only.









Hold the Button

Hold the Button 3 seconds

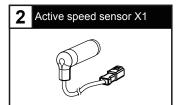
Symbol description:

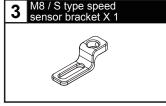
NOTE

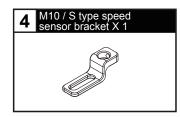
WARNING! Certain procedure must be followed to avoid damages to yourself, to the vehicle or to others.

1-1 Accessories



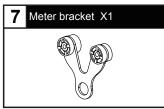


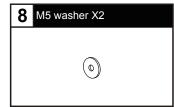




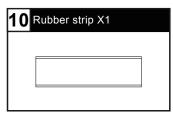


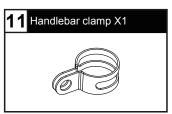




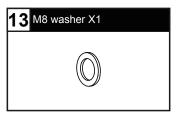


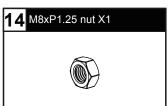




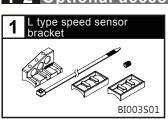




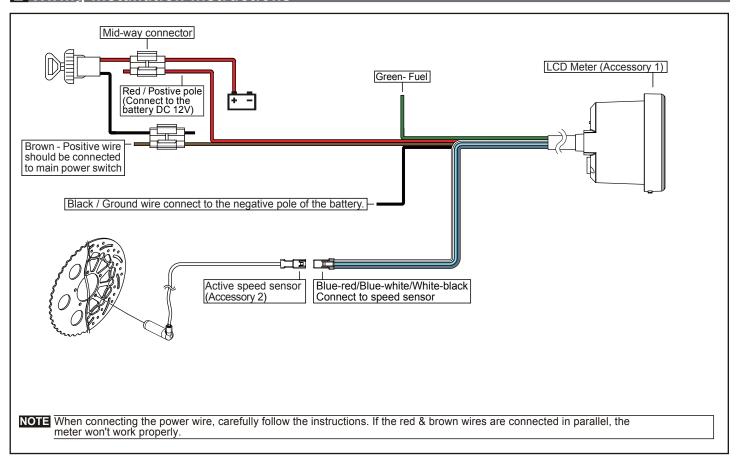




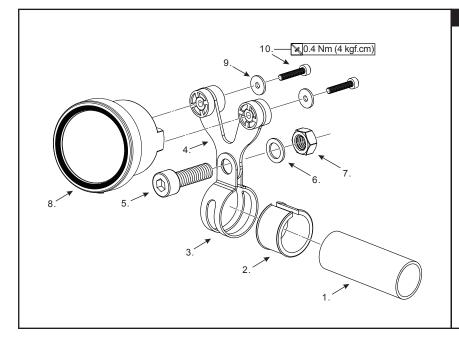
1-2 Optional accessories



2 Wiring Installation Instructions



3 Installation instructions



Follow the steps below during installation.

- 1. Handlebar
- 2. Rubber strip (Accessory 10)

▲ CAUTION! Refer to the list below for use of the rubber strip

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)

SCOOTER Stype speed sensor bracket instruction



Install the S type sensor bracket.



Install the speed sensor on the bracket .



Adjust the sensor bracket position to make sure that the sensor faces the magnet to prevent bad speed signal or no signal.



Adjust the distance between sensor and magnet. We suggest you make sure the distance is under 1 mm for an optimal speed signal.

MOTO / SCOOTER L type speed sensor bracket instruction



Install the L bracket and the anti-slip rubber on the front fork and adjust it to the proper height and angle.



Install the speed sensor into the proper hole on the bracket.



Use the zip tie to fix the bracket on the front fork. Make sure the disc screw can pass the hole on the bracket for you to install the sensor into the same hole to catch the speed signal.



Adjust the distance between the sensor and screw to get the best speed signal. Make sure the distance is under 1 mm to get the best signal.



The active speed sensor needs to be facing a metal surface to detect the speed.

- EX. 1 The disc screw.

 EX. 2 The disc to detect the disc gap. (Make sure the distances between the gaps are the same in advance to avoid improper
- speed signal.)
 EX. 3 The sprocket to detect the disc gap. (Make sure the distances between the gaps are the same in advance to avoid improper speed signal.)

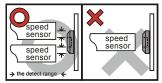
EX. 4 Rear disc - detect the gap between the disc

Topot

We suggest you obtain the speed from the disc screws. The more sensor points are, the better the speed accuracy is. The maximum sensor points the speed sensor could detect is 40 points per turn.

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

EX. 1



The hexagon socket disc screw
The best detection area: The edge of the hexagon socket screw.

Don't pick-up the signal from the middle hole of the hexagon socket screw to avoid wrong signal.

sensor

The hexagon screw
The best detection area: The middle of the screws.

★ Some hexagon screw centers have a small hole in this case, we suggest you to obtain the signal from the edge of the screw like the hexagon socket screw.





The disc

The best detection area: Detect the speed signal from the gaps of the disc.

Note that there are discs with the gaps in different locations, so this method may not work.

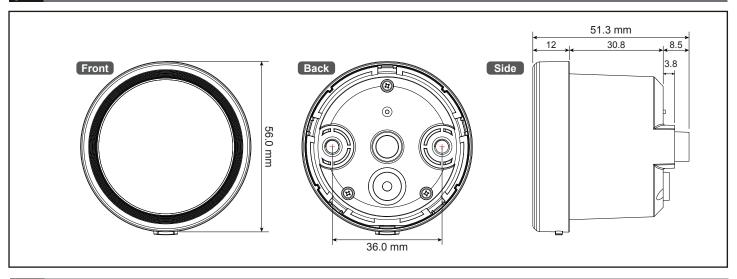




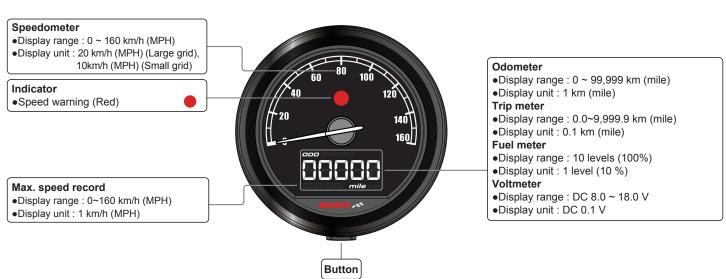
The sprocket The best detection area: Detect the speed signal from the gaps of the sprocket.

Note that there are sprockets with the gaps in different locations, so this method may not work.

3-1 Meter Size



3-2 Basic Function Instructions



3-3 Specifications

•Speedometer	Display range : 0 ~ 160 km/h (MPH) Display unit : 20 km/h (MPH) (Large grid), 10km/h (MPH) (Small grid)	∘Low Fuel warning	Setting range : 0~30%, when setting value is reached or below, warning light will illuminate. Setting unit : 10%	
Speed warning setting	Display range: 30~160 km/h (19~100 MPH), when setting value is reached or above, warning	●Voltmeter	Display range : DC 8.0 ~ 18.0 V Display unit : DC 0.1 V	
∘Max. speed record	light will illuminate. Display unit : 1 km/h (MPH) Display range : 0~160 km/h (MPH),	oLow 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	
- maxi opcou rocciu	can return to zero manually Display unit : 1 km/h (MPH)	Backlight color	Setting range: white, red, yellow, green, blue, light blue, purple Loop switch	
○Odometer	Setting range: 0 ~ 99,999 km (mile)	●Unit	Speed unit : km, mile	
	Setting unit : 1 km (mile)	 Operating voltage 	DC 12V	
∘Trip meter	Display range : 0.0~9,999.9 km (mile),	Operating temperature -10∼ +60 °C		
	can return to zero manually	 Storage temperature 	-20~ +80 °C	
	Display unit: 0.1 km (mile)	 Specification 	JIS D 0203(S2)	
∘ Circumference	Setting range: 300~2,500 mm	Meter Size	D 48 mm	
	Setting unit: 1 mm	Meter Weight	± 90 g	
Sensitive point	Setting range : 1~20 P	•Indicator	Speed warning (Red)	
	Setting unit: 1 P	NOTE Design and spe	cifications are subject to change without notice.	
●Fuel meter	Display range : 10 levels (100%) Display unit : 1 levels (10%)	Beoign and Spe	omodiono dre Subject to Ghange Without House.	
∘Fuel Gauge Resistance(Ω)	Setting range : 100 Ω , 250 Ω , 270 Ω , 390 Ω , 510 Ω ,1200 Ω , Sw, Custom(learning mode), OFF			

4 Main Menu Switching Description



- •In the total mileage screen, press the button to enter the TRIP screen.
- In the total mileage screen, press the button for 3 seconds to enter the setting screen.



- •In the Max. speed record screen, press the **button** to go back to the total mileage screen.
- Press the button for 3 seconds to reset Max. record screen.





- •In the TRIP screen, press the **button** to enter the Fuel screen.
- Press the button for 3 seconds to reset Trip record.







•In the total mileage screen.



In the Fuel screen, press the button to enter the voltage screen.

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



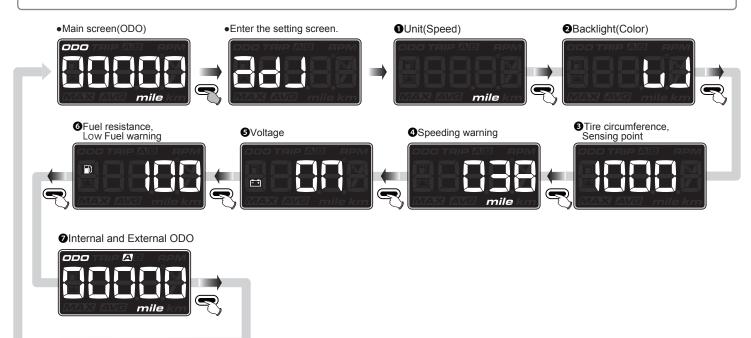
•In the voltage screen, press the button to enter the MAX screen.

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

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
- Unit(Speed) Backlight(Color) Tire circumference, Sensing point Speeding warning Voltage Fuel resistance, Low Fuel warning
- Internal 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 Unit (Speed) Setting



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



- EX : Set speed unit from mile to km.
- Press the button for 3 seconds to go back to the unit screen.



•Example: To set speed unit in km.

 Press the button to choose the setting options.

Now the setting value is flashing.

NOTE Setting range : km, mile.
Default value : mile.



The unit screen.

5-2 Backlight (Color) Setting



 In the backlight screen, press the button for 3 seconds to enter the backlight color setting.



- •EX : Set backlight color from white to yellow.
- Press the **button for 3 seconds** to go back to the backlight screen.



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, yellow, green,blue, light blue, purple Default value : White.

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



The backlight screen.

5-3 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.



- 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.



- •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.

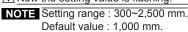


NOTE Setting range : 01 P~20 P.
Default value : 01 P.



- 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.



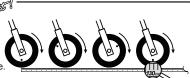


•Press the **button** to choose the setting number.



S. Flaggier -

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





- •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.



 Press the button to choose the setting number



•The tire circumference and sensing point screen.



5-4 Speed Warning Setting



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



- •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.



- •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)



• The speeding warning screen.



•Press the button to choose the setting

5-5 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

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.



•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.



•The voltage screen.

5-6-1 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 YAMAHA T-MAX 530, its resistance is 100 Ω according to the service manual.

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

Now the setting value will blink.

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



•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 5-6-2 (auto) and 5-6-3(manual) operation setting.



The fuel screen.

5-6-2 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.





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 .







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

The lowest position >





- •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.





- •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.



5-6-3 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 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.



- •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.



Press the button to choose the setting



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



- •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.

5-7 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.



- 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 for 3 seconds to enter the internal ODO screen.



The internal ODO screen.

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



 Press the button to choose the setting number.



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.



- •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
The meter doesn't work when the power is on.	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).	Fuel meter doesn't display or display error.	
The meter shows wrong information. Speed meter doesn't appear or appears incorrectly.		The meter indicator didn't display.	 →Check the settings menu if the fuel settings are correct. ◆Check the setting. →Refer to the manual 5-4 Speeding Warning Setting.

 $\ensuremath{\mathbb{X}}$ If the problems still cannot be solved, contact our technical department for assistance.