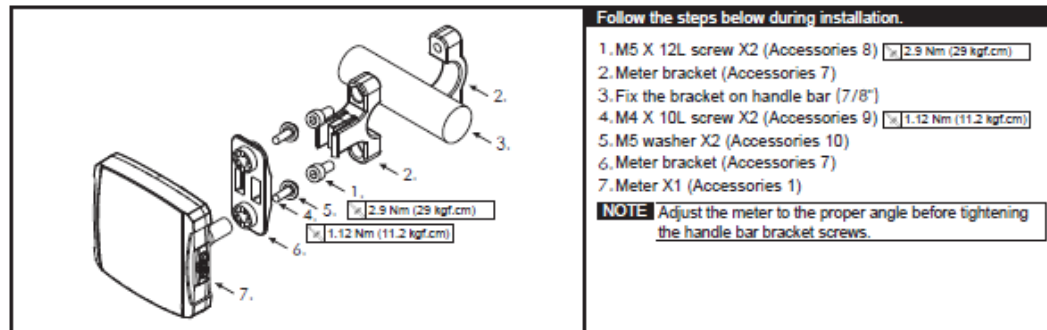


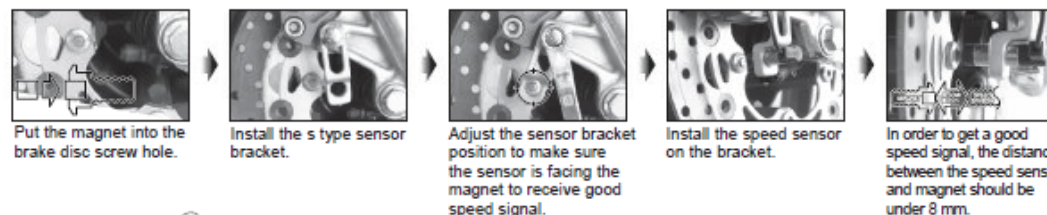
NOTE: N pole of the Magnet needs to be facing outward (facing the sensor) and must be installed on the brake disk or chain gear fixing bolt.

NOTE: When connecting the power wire, follow the instructions carefully. If the red & brown wires are connected in parallel, the meter will not work properly.

2-2 Installation instructions



MOTO / SCOOTER Magnet installation instructions



P.S. Higher number of magnets installed on the disk brake will result in a faster speed display on the gauge. The letter "N" on the magnets must face the speed sensor in order to pick up the speed correctly.

EX 1: If the disk brake has 3 screws, you can install 1 or 3 magnets.
 EX 2: If the disk brake has 4 screws, you can install 1, 2 or 3 magnets.
 EX 3: If the disk brake has 5 screws, you can install 1 or 5 magnets.
 EX 4: If the disk brake has 6 screws, you can install 1, 2, 3 or 6 magnets.

Notice

- Please, follow the step-by-step instructions for proper installation. Any damages caused by faulty installation shall be imputed to the users.
- To avoid a short circuit, do not pull the wires when installing the unit. Do not break or modify the wires either.
- Do not disassemble or change any parts.
- Maintenance and repairs should be executed by our professionals only.

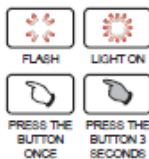
MARK MEANING:

Some procedures must be followed to avoid faulty installation.

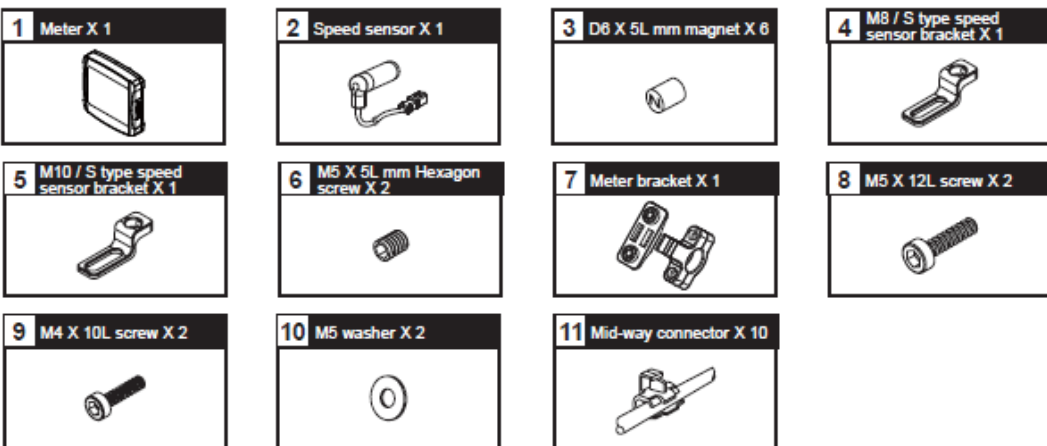
WARNING! Some procedures must be followed to avoid damages from occurring to yourself and to others.

CAUTION! Some procedures must be followed to avoid damages from occurring to the vehicle.

READ CAREFULLY! If any information remains unclear, after following the instructions, please seek professional assistance.

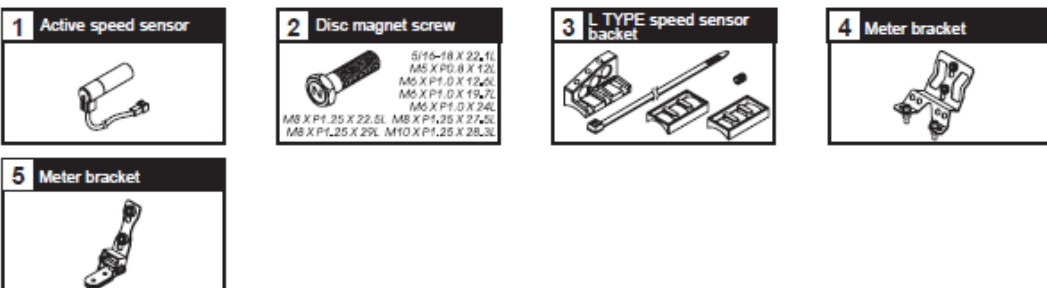


1-1 Accessories



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

1-2 Optional accessories



NOTE: Some of the optional accessories may not be available in your area. Contact your local distributor to obtain more information.

3-1 Basic function instructions

Indicators Lights

- Turn Signal (Green) •
- Neutral (Green) • N
- Warning Light (Red) •
- Engine Light (Yellow) •
- High beam light (Blue) •

Odo meter

- Display range : 0 ~ 99,999 km (mile) • reset automatically after 99,999 km (mile)
- Setting unit : 1 km (mile)

Trip meter A • B

- Display range : 0 ~ 9,999.9 km (mile) • reset automatically after 9,999.9 km (mile)
- Setting unit : 0.1 km (mile)

Hour meter

- Display range : 99,999 hour • reset automatically after 99,999 hour
- Display unit : 1 hour

Hour meter A • B

- Display range : 9,999.9 hour • reset automatically after 9,999.9 hour
- Display unit : 0.1 hour

Fuel meter

- Display range : 6 levels
- Display unit : Each level represents 16.6 %

Speedometer

- Display range : 0 ~ 360 km/h (0 ~ 225 MPH)
- Display unit : km/h or MPH alternative

Clock

- 24 H

Volt meter

- Display range : DC 8.0 ~ 18.0 V

Volt meter warning

- Display range : Flashing warning when voltage lower than 11.5 V or higher than 15.5 V

Select

Adjust

Speed record

- MAX speed record : Display range : 0 ~ 360 km/h (0 ~ 225 MPH)
- Average speed record : Display range : 0 ~ 360 km/h (0 ~ 225 MPH)

Dimensions

77.5 mm, 24 mm, 10 mm, 74.8 mm, 37 mm

3-2 Function setting instructions

● Speedometer	Display range : 0 ~ 360 km/h (0 ~ 225 MPH) Display unit : km/h or MPH for alternative <0.5 second	○ Tire circumference	Setting range : 300 ~ 2,500 mm Setting unit : 1 mm ; Sensitive point : 1 ~ 6
○ Display internal		● Fuel meter	Display range : 6 grids
○ Odometer	Display range : 0 ~ 99,999 km (mile) • reset automatically after 99,999 km (mile) Setting unit : 1 km (mile)	○ Insufficient fuel warning	Setting unit : 100 Ω • 250 Ω • 510 Ω • USER
○ Trip meter A • B	Display range : 0 ~ 9,999.9 km (mile) • reset automatically after 9,999.9 km (mile) Display unit : 0.1 km (mile)	● Clock	24 H
○ Oil maintenance mileage	Setting range : 300 ~ 5,000 km (mile) Setting unit : per 100 km (mile)	● Volt meter	Display range : DC 8.0 ~ 18.0 V
○ Hour meter	Display range : 99,999 hour • reset automatically after 99,999 hour Display unit : 1 hour	○ Volt meter warning	Display range : Flashing warning when voltage lower than 11.5 V or higher than 15.5 V
○ Hour meter A • B	Display range : 9,999.9 hour • reset automatically after 9,999.9 hour Display unit : 0.1 hour	● Effective voltage	DC 12 V
○ MAX speed record	Display range : 0 ~ 360 km/h (0 ~ 225 MPH)	● Effective temperature range	-10 ~ +60 °C
○ Average speed record	Display range : 0 ~ 360 km/h (0 ~ 225 MPH)	● Meter standard	JIS D 0203 S2
		● Meter size	77.5 X 74.8 X 34 mm
		● Meter weight	Around 87 g
		● Indicator light color	Turn signal (Green) • Neutral (Green) • Warning Light (Red) • Engine Light (Yellow) • High beam light (Blue)

NOTE Design and specifications are subject to change without notice!

3-3 The main screens function switch instructions

Select button function instructions

- In the clock screen, Press the **Select** button one time to enter the volt screen,

Adjust button function instruction

- In the ODO screen, Press the **Adjust** button one time to enter the Trip A screen.
- In the Trip A screen, Press the **Adjust** button one time to enter the Trip B screen.
- Press and hold the **Adjust** button for 3 seconds to reset Trip A record.
- In the Trip B screen, Press the **Adjust** button one time to enter the oil maintenance mileage screen.
- Press and hold the **Adjust** button for 3 seconds to reset Trip B record.
- In the oil maintenance mileage screen, Press the **Adjust** button one time to enter the hour meter screen.
- In the hour meter screen, Press the **Adjust** button one time to enter the hour meter A screen.
- Press and hold the **Adjust** button for 3 seconds to reset hour meter B records.
- In the Speed record (MAX \ AVG) screen, Press the **Adjust** button one time to enter the ODO screen.
- Press and hold the **Adjust** button for 3 seconds to reset MAX speed record.
- Press and hold the **Adjust** button for 3 seconds to reset Average speed record.

3-4 Oil maintenance mileage setting instructions

● In the clock screen,

Adjust button function instruction

● In the ODO screen, Press the **Adjust** button one time to enter the Trip A screen.

● In the Trip A screen, Press the **Adjust** button one time to enter the Trip B screen.

● Press and hold the **Adjust** button for 3 seconds to reset Trip A record.

● In the Trip B screen, Press the **Adjust** button one time to enter the oil maintenance mileage screen.

● Press and hold the **Adjust** button for 3 seconds to reset Trip B record.

● In the oil maintenance mileage screen, Press the **Adjust** button one time to enter the hour meter screen.

● In the hour meter screen, Press the **Adjust** button one time to enter the hour meter A screen.

● Press and hold the **Adjust** button for 3 seconds to reset hour meter B records.

● In the Speed record (MAX \ AVG) screen, Press the **Adjust** button one time to enter the ODO screen.

NOTE MAX Speed Record (MAX) and Average Speed Record (AVG) will switch between each other every 3 seconds.

● Press and hold the **Adjust** button for 3 seconds to reset MAX speed record.

● Press and hold the **Adjust** button for 3 seconds to reset Average speed record.

● In the ODO screen,

3-4 Oil maintenance mileage setting instructions

PS.

● Example : We already did the maintenance work after the oil light lit up.

● In the main screen, press **Adjust** button to enter Oil maintenance mileage screen.

△ The oil warning light is lit up now.

NOTE If you maintained the scooter before the oil light lit up, you could also reset the oil maintenance distance to remind yourself for the next maintenance time.

● When the running distance reaches the maintenance distance setting. The oil indicator light will light up. The indicator light can be turned off after resetting the records.

● The oil mileage is counted by decreasing.

● In the oil maintenance mileage screen, Press the **Adjust** button for 3 seconds to enter the Maintenance Mileage "Reset" screen.

● Press the **Adjust** button for 3 seconds to confirm the Maintenance Mileage to be reset.

⚠ In Maintenance Mileage Reset screen, press the Adjust button to give up the reset and then warning light will back to light on steady from flashing.

NOTE In Maintenance Mileage Reset screen, press the Adjust button to give up the reset and then warning light will back to light on steady from flashing.

● Maintenance Mileage "Reset" screen.

● EX. The Maintenance Mileage to be reset from -1 to setting value.

⚠ The reset value will depend on the setting value according to 4-5 Maintenance Mileage Setting.

3-5 Setting screen instruction

● In main screen

● Internal ODO display

● Odometer

● Oil maintenance mileage

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

● Press the **Adjust** button to select in following order start from Circumference and sensing point - Fuel gauge resistance (Ω) - Clock setting - Backlight brightness setting - Oil maintenance mileage - Odometer - Internal ODO display.

NOTE The screen will return to the main screen after 30 seconds if no button is press.

⚠ In any screen, you could hold down the **Select** button for 3 seconds to back to the main screen.

● Setting screen

● Circumference and sensing point

● Fuel gauge resistance

● Clock setting

● Backlight brightness setting

4 Entering setting screen

● In main screen, press down the **Select & Adjust** button for 3 seconds to enter the setting screen.

4-1 Circumference and sensing point setting

● Press the **Select** button to enter the circumference and sensing point setting screen.

⚠ CAUTION!

● Measure the tire circumference (The tire you will install the sensor on) and make sure the number of magnet sensor point (You could install the magnet into the disc screw or the sprocket screw.)

● The speed displayed on the meter will be affected by the setting, make sure the setting number is correct before you make the setting.

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

● Example : If the tire circumference is 1,300 mm.

● Press the **Select** button to the digit you want to set.

● EX. Now the tire circumference is setting from 1,000 mm.

⚠ Now the digit in thousands setting number is flashing!

NOTE Setting range : 300 ~ 2,500 mm
Setting unit : 1 mm

PS.

● You could define the 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.

● Press the **Select** button to enter the sensor point setting.

● EX. The circumference setting is changed from 1,000 mm to 1,300 mm.

● Example : If the sensor point is setting 6P.

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

● EX. Now the sensor point is setting from 1P.

⚠ Now the setting value is flashing!

NOTE Sensitive point : 1 ~ 8

● Press the **Select** button to go back to the circumference and sensing point setting screen.

● EX. Now the sensor point is setting from 1P to 6P.

● Press the **Adjust** button to select the fuel gauge resistance setting screen.

4-2 Fuel gauge resistance settings

● Press the **Select** button to enter the circumference and sensing point setting screen.

● Example : If the vehicle is a YAMAHA T-MAX 830; it's resistance is 100 Ω according to the service manual.

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

⚠ Now the setting value is flashing!

NOTE The fuel gauge resistance setting range : USER - 100 Ω - 250 Ω - 270 Ω - 510 Ω - 1200 Ω - SW (turn off)

NOTE Custom fuel level resistance:
1) Manual - Please check 4-2-1 Fuel Level Resistance Manual Setting Instructions.
2) Auto - Please check 4-2-2 Fuel Level Resistance Auto Setting Instructions.

● Press the **Select** button to go back to the circumference and sensing point setting screen.

● EX. Now the circumference and sensing point setting from USER to 100 Ω.

4-2-1 Fuel Level Manual Setting

● Press the **Select** button to enter the lowest fuel level's resistance setting screen.

● Example : For YAMAHA T-MAX 830, according to the service manual, the fuel tank resistance from low to high is 90 - 100 Ω (the lowest) and 4 - 10 Ω (the highest). So enter the setting value as 10 Ω.

PS.

● 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 Ω and 4 - 10 Ω, in which case we will suggest to use 90 - 100 Ω as the lowest and highest range.

● Example : If the lowest fuel level is 90 Ω.

● Press the **Select** button to the digit you want to set.

⚠ Now the setting value is flashing!

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

● Press the **Select** button twice to enter in the highest fuel level's resistance setting screen.

● EX. The lowest fuel level setting is changed from 0 to 90 Ω.

● Example : If the highest fuel level is 10 Ω.

● Press the **Select** button to the digit you want to set.

⚠ Now the setting value is flashing!

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

● Press the **Select** button twice to go back to the highest fuel level's resistance setting screen.

● EX. The highest fuel level setting is changed from 0 to 10 Ω.

4-2-2 Fuel Level Resistance Auto Detection Settings

● Press the **Select** button to enter the lowest fuel level's resistance auto detection screen.

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.

PS.

● For example of YAMAHA T-MAX 530, if the fuel surface sensor float in the lowest position then it will detect the resistance around 90 - 100 Ω.

The lowest position

● Press the **Adjust** button to detect the lowest fuel level's resistance.

● Press the **Select** button 5 times to enter the lowest fuel level resistance auto detection screen.

● EX. Auto Detection the lowest fuel level resistance is 90 ohms.

CAUTION!

● Before detection, please ensure your current fuel level is in the highest 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.

PS.

● For example the YAMAHA T-MAX 530; if the fuel surface sensor float is in the highest position then it will detect the resistance as around 4 - 10 Ω.

The highest position

● Press the **Adjust** button to detect the highest fuel level resistance.

● Press the **Select** button 5 times to go back to the fuel gauge resistance.

● EX. Automatically detect the highest fuel level resistance value as 10 Ω.

● Press the **Adjust** button to enter the Clock (Hr / Min) setting screen.

4-3 Clock setting

● Press the **Select** button to enter the Clock (Hr / Min) setting screen.

● Example : Changing the hour to 10.

● Press the **Adjust** 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 : 0 ~ 23 H.

● Press the **Select** button to enter the clock minutes setting screen.

● EX. Now the setting is changed from 0:00 to 10:00.

● Example : You want to change the minutes to 10.

● Press the **Select** button to the digit you want to set.

△ Now the setting value is flashing!

NOTE Setting range : 00 ~ 59 minutes.

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

● Press the **Select** button to go back to the clock (Hr / Min) setting screen.

● EX. Now the setting is changed from 10:00 to 10:10.

● Press the **Adjust** button to select the Backlight brightness setting.

4-4 Backlight brightness settings

● Press the **Select** button to enter the backlight brightness setting screen.

● Example : You want to set the brightness at 80% (3).

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

● Press the **Select** button to go back to the backlight brightness setting screen.

● EX. The backlight brightness setting is changed from 5 (100%) to 3 (60%).

● Press the **Adjust** button to select the Oil maintenance mileage.

4-5 Oil maintenance mileage

● Press the **Select** button to enter the Oil maintenance mileage setting screen.

● Example : To activate the Maintenance Mileage Indication and set the warning value to 500 km.

● Press the **Select** button and notice the Maintenance Mileage Indication is activated.

NOTE If you don't want to use this function, then set it as "OFF". When you set "OFF", the Maintenance Mileage indication will not be shown.

● Press the **Select** button to the digit you want to set.

△ Now the setting value is flashing!

NOTE Setting range : 300 ~ 5,000 km (mile).
Setting unit : 100 km (mile).

NOTE Cursor moving order is : from thousands digit to hundreds digit.

● Press the **Select** button to the digit you want to set.

△ Now the setting value is flashing!

NOTE Setting range : 300 ~ 5,000 km (mile).
Setting unit : 100 km (mile).

NOTE Cursor moving order is : from thousands digit to hundreds digit.

PS.

● When the oil maintenance mileage returns to zero, the oil light will light up.

● The oil maintenance mileage is counting backwards.

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

● Press the **Select** button 3 times to go back to the Oil maintenance mileage screen.

● EX. The Oil maintenance mileage setting is changed from 300 to 500 km.

● Press the **Adjust** button to select the Odometer setting.

4-6 Odometer settings

● Press the **Select** button to enter the Odometer setting screen.

● Example : To set Total Mileage (ODO) to 15,000km.

● Press the **Select** button to the digit you want to set.

△ Now the setting value is flashing!

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

NOTE Cursor moving order is : From ten thousands digit, thousands digit, hundreds digit, tens digit then to the units digit.

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



- Press the **Select button** to go back to the Internal ODO display screen.
- EX. The Odometer setting is changed from 0 to 15.000 km.



- Press the **Select button for 3 seconds** to go back to the main screen.
- EX. Internal ODO setting is 12.500 km.

4-7 Internal ODO settings



- Press the **Adjust button** to enter the Internal ODO screen.



- The main screen.

5 Trouble shooting

The following situation does not necessarily indicate malfunction of the meter. Check the following points, before taking it in for repairs.

Trouble	Check item	Trouble	Check item
The meter does not work when the power is on.	<ul style="list-style-type: none"> ● The meter has no power. <ul style="list-style-type: none"> → Make sure the wiring is connected. The wiring and fuse are not broken. → The battery is broken or the battery is too old to supply enough power (DC 12 V) to make the meter work. ● Check the voltage of your battery, and make sure the voltage is over DC 12 V. ● Make sure the speed sensor is connected properly. <ul style="list-style-type: none"> → Check if the speed sensor is connected and working properly. Also check whether the speed sensor cable is broken or lose. ● Check the tire-size setting. <ul style="list-style-type: none"> → Refer to the manual 4-1 circumference and sensing point settings. 	The odometer and trip meter are not accumulated or accumulated the wrong data. Fuel gauge does not appear or appears incorrectly. The clock is incorrect.	<ul style="list-style-type: none"> ● It is possible that the permanent power wire is not connected properly. <ul style="list-style-type: none"> → Check if the red positive wire is connect properly. ● Check your fuel tank. ● Check the wiring harness. <ul style="list-style-type: none"> → Is the wire connected properly? ● Check the tire-size setting. <ul style="list-style-type: none"> → Refer to the manual 4-2 fuel gauge resistance settings. ● Did you connect the wires correctly? <ul style="list-style-type: none"> → Check if the positive wire (Red) connected to the battery, and the main positive wire (Brown) connected to the main switch.

* If the problem is not resolved after following the steps shown above, please contact your local distributor for assistance.