



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 instrument.

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



Flash



Light on



Hold the
Button
1 second



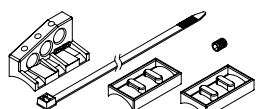
Hold the
Button
3 seconds

1-1 Accessories

1 LCD Meter X1 	2 Main wiring harness X1 	3 Active speed sensor X1 	4 RPM wire (Type A) X1
5 RPM wire set (TYPE B) X1 	6 Extension wire X1 	7 Temperature sensor X1 	8 External switch (Dual button type) X1
9 Rubber strip X1 	10 M8 / S type speed sensor bracket X 1 	11 M10 / S type speed sensor bracket X 1 	12 M5x5LxP0.8 Hexagon screw X 2
13 2.5 mm Allen key X 1 	14 3 mm Allen key X1 	15 Meter bracket X1 	16 M5x12L mm Screw X3
17 M5 washer X3 	18 M6x35L Allen screw X2 	19 M8x30L Allen screw X2 	20 M6 Bushing X2
21 M8 Bushing X2 	22 M6 Bushing X2 	23 M8 Bushing X2 	

1-2 Optinal accessories

1 L type speed sensor bracket



BI003S01

2 Oil temp sensor adapter

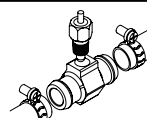
M12 X P1.5 X 15L
M14 X P1.25 X 15L
M14 X P1.5 X 15L
M16 X P1.5 X 15L
M18 X P1.5 X 15L
M20 X P1.0 X 15L
M20 X P1.5 X 15L



BG*****

3 Water temp sensor adapter

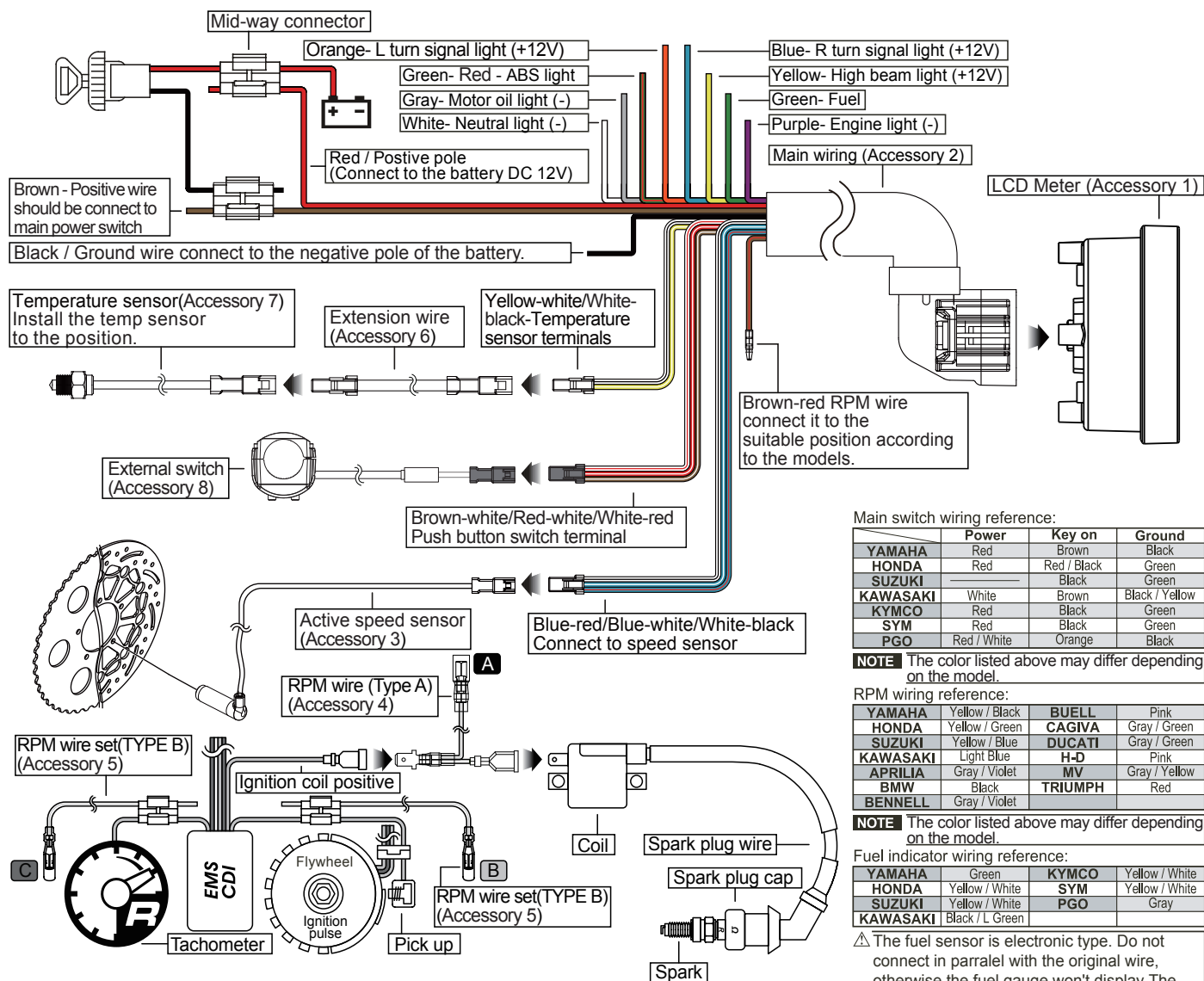
M14
M16. M18
M22. M26 mm



BG0*****

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

2-1 Wiring Installation Instructions



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

⚠ The RPM wire installation

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

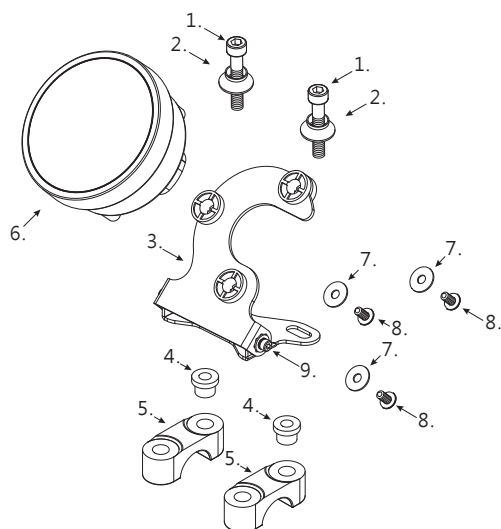
A. Connect the RPM wire (Type A) on the spark plug wire by connecting the male and female connectors.

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

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

The best signal source 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

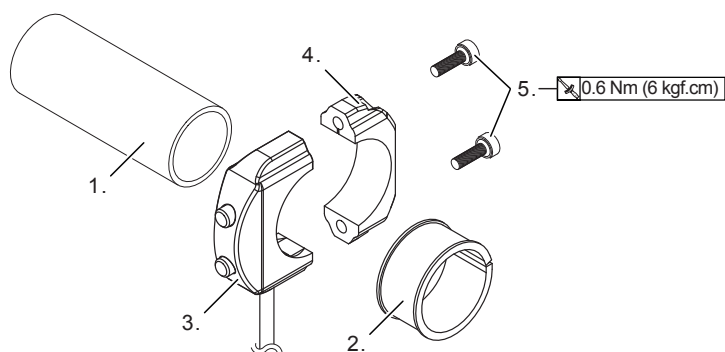


Follow the steps below during installation.

1. M6 or M8 Allen screw X2 (Accessory18,19)
2. M6 or M8 Bushing X2 (Accessory20,21)
3. Meter bracket (Accessory15)
4. M6 or M8 Bushing X2 (Accessory22,23)
5. Handle bar bracket

6. LCD Meter (Accessory1)
7. M5 washer X3 (Accessory17)
8. M5x12L mm Screw X3 (Accessory16) $\times 1.1 \text{ Nm (11 kgf.cm)}$
9. Meter bracket micro-adjustment screw $\times 0.45 \text{ Nm (4.5 kgf.cm)}$

NOTE Choose the angle first and then use the screw to fix the angle.



Follow the steps below during installation.

1. Handle bar
2. Rubber strip (Accessory 9)

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. External switch (Dual button type) - Upper case (Accessory 8)
4. External switch (Dual button type) - Bottom case (Accessory 8)
5. M3x12xP0.5 mm screw

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

MOTO / SCOOTER S type 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.

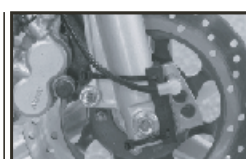


Adjust the distance between sensor and magnet. We suggest you make sure the distance is under 1 mm for an optimal speed signal.

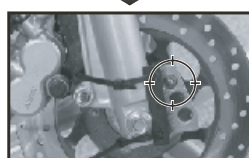
MOTO / SCOOTER L type speed sensor bracket instruction



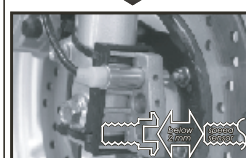
Install the L bracket and the anti-slip rubber on the front fork and adjust it to the proper height and angle.



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 could pass the hole on the bracket for you to install the sensor into the same hole for catching the speed signal.



Adjusting the distance between the sensor and screw to get the best speed signal. Make sure the distance is under 2mm to get the best signal.



The active speed sensor could be facing the metal parts 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 wrong speed signal.)

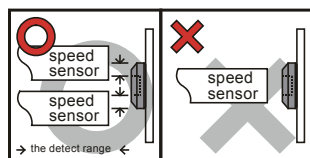
EX. 3 The sprocket to detect the disc gap. (Make sure the distances between the gaps are the same in advance to avoid wrong speed signal.)

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

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

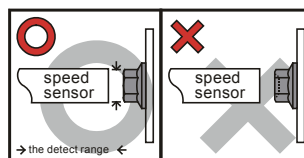
After installation, use your hand to turn the tire to see if everything is ok. The LED on the active speed sensor will light up once the signal is detected.

EX. 1



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

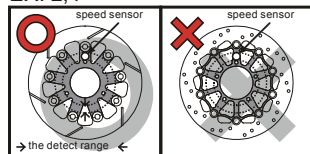
⚠ Don't pick-up the signal from the middle hole of the hexagon socket screw to avoid wrong signal.



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

⚠ Some hexagon screw center is with a small hole in the center. In this case, we will suggest you to catch the signal from the edge of the screw like the hexagon socket screw.

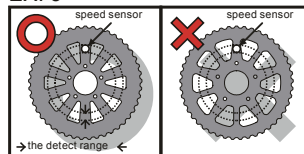
EX. 2,4



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 difference, and this method will not work on it.

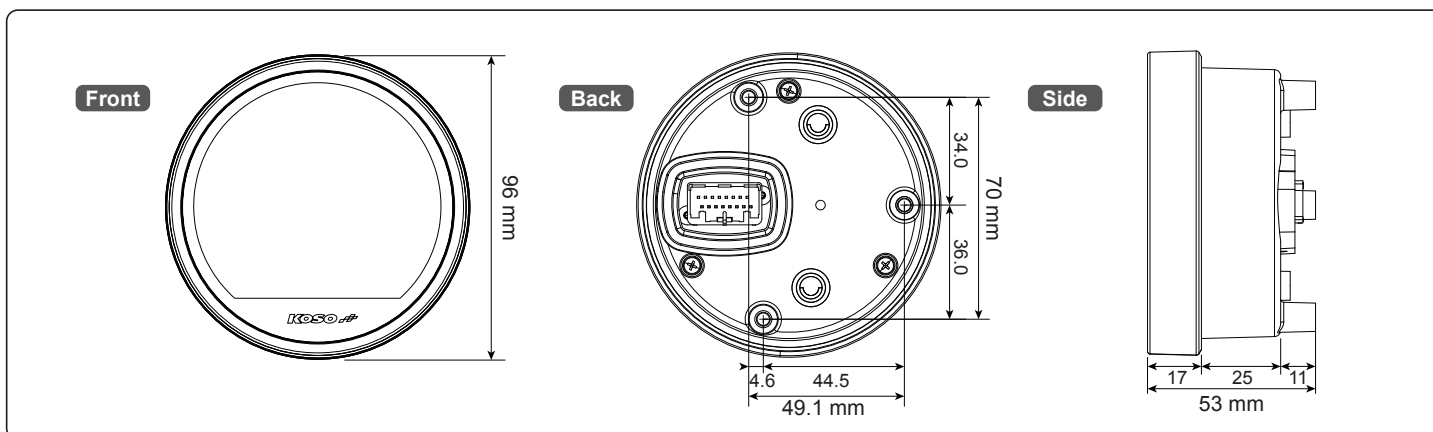
EX. 3



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

⚠ Note that there are sprockets with the gaps in different difference, and this method will not work on it.

3-1 Meter Size



3-2 Basic Function Instructions

Indicator

- Check engine light (Amber)
- High beam light (Blue)
- Neutral light (Green) N
- Warning light (Red)
- ABS light (Amber)
- Turn signal light (Green)
- Shift light (Red)

Speedometer

- Display range : 0 ~ 360 km/h (0 ~ 225 MPH)
- Display unit : 1 km/h (MPH)

Max. speed record

- Display range : 0 ~ 360 km/h (0 ~ 225 MPH)
- Display unit : 1 km/h (MPH)

Max. Gear record

- Display range : -, N, 1~the highest gear

Max. RPM record

- Display range : 0~10,000 RPM / 0~15,000 RPM
- Display unit : 111 RPM / 166 RPM

Max. temperature record

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

Clock

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

Voltmeter

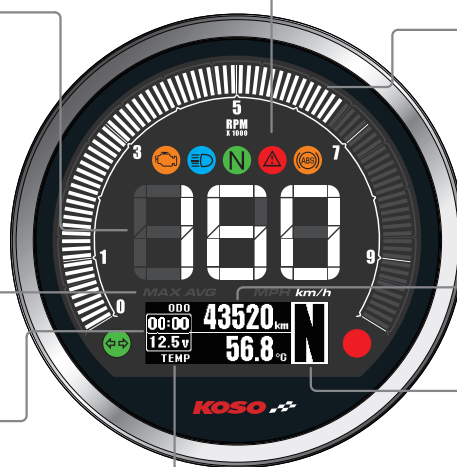
- Display range : DC 8.0 ~ 18.0 V
- Display unit : DC 0.1 V

Temperature

- Display range : 0.0~250.0 °C (32.0~482.0 °F)
- Display unit : 1 °C (°F)

Fuel meter

- Display range : 6 levels
- Display unit : 1 level (16.6 %)



Tachometer

- Display range : 0~10,000 RPM / 0~15,000 RPM
- Display unit : 111 RPM / 166 RPM

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)

Motor oil maintenance (Trip O)

- Display range : OFF, -999~16,000 km (-999~10,000 mile)
- Display unit : 1 km (mile)

Gear Meter

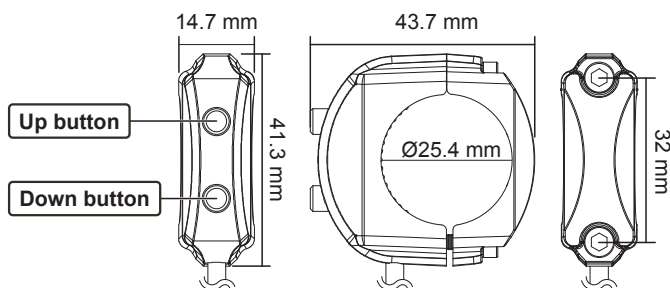
- Display range : OFF, -, N, 1~the highest gear

3-3 Specifications

●Speedometer	Display range : 0 ~ 360 km/h (0 ~ 225 MPH) Display unit : 1 km/h (MPH) Switchable	○Overheat warning setting	Setting range : 60~250 °C(140~482 °F), When exceeding the set warning value, the value flickers, and the warning signal will be lit according to the setting. Setting unit : 1 °C (°F)
○Speeding warning setting	Setting range : 30~360 km/h (19~225 MPH), When exceeding the set value (inclusive), the value flickers and the warning signal will be lit according to the setting. Setting unit : 1 km/h (MPH)	○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)
○Max. speed record	Display range : 0 ~ 360 km/h (0 ~ 225 MPH), can return to zero manually Display unit : 1 km/h (MPH)	●Fuel meter	Display range : 6 levels Display unit : 1 level(16.6 %)
○Odometer	Setting range : 0 ~ 99,999 km (mile) Setting unit : 1 km (mile)	●Fuel resistance	Setting range : 100 Ω, 250 Ω, 270 Ω, 390 Ω, 510 Ω, 1200 Ω, Switch, Custom ,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)	○Fuel warning setting	Setting range : 0 ~ 3/6 grid Setting unit : 1 grid
●Motor oil maintenance (Trip O)	Display range : OFF, -999~16,000 km (-999~10,000 mile), can be reset manually Display unit : 1 km (mile)	●Clock	Setting range : 00:00~23:59 (24H) 01:00~12:59 (12H)
○Motor oil maintenance warning	Setting range : OFF, 500 ~ 16,000 km(300~10,000 mile) When lower than 0 km (mile), the value shows on the screen and flickers for warning, and the warning signal will be lit according to the setting. Setting unit : 100 km(mile)	●Voltmeter	Display range : DC 8.0 ~ 18.0 V Display unit : DC 0.1 V
●Circumference	Setting range : 300~2,500 mm Setting unit : 1 mm	○Low voltage warning	Setting range : DC 8.0~13.0 V, When lower than the set warning value for over five seconds, the value flickers, and the warning signal will be lit according to the setting. Setting unit : DC 0.1 V
○Sensitive point	Setting range : 1~20 P Setting unit : 1 P	●Backlight brightness	Setting range : 1/5 (darkest)~ 5/5 (brightest) Setting unit : 1/5(20%)
●Gear Meter	Display range : OFF, -, N, 1~the highest gear	●Unit	Speed unit : km/h , MPH Temperature unit : °C (Celsius) and °F (Fahrenheit)
○Max. Gear record	Display range : -, N, 1~the highest gear, can return to zero manually	○Operating voltage	DC 12V
●Tachometer	Display range : 0~10,000 RPM / 0~15,000 RPM Display unit : 111 RPM / 166 RPM	●Operating temperature	-20~ 85 °C
○Shift light warning	Setting range : 1,000~10,000 RPM / 0~15,000 RPM, When exceeding the set value (inclusive), the warning signal will be lit according to the setting. Setting unit : 100 RPM	○Storage temperature	-30~ 90 °C
○Max. RPM record	Display range : 1,000~10,000 RPM / 0~15,000 RPM, can return to zero manually. Display unit : 111 RPM / 166 RPM	●Specification	JIS D 0203 (S2)
●Temperature	Display range : 0.0~250.0 °C (32.0~482.0 °F) Display unit : 0.1 °C (°F)	●Meter Size	D 96 mm
		●Meter Weight	About 184 g
		●Indicator	Check engine light (Amber)  High beam light (Blue)  Neutral light (Green)  Warning light (Red)  ABS light (Amber)  Turn signal light (Green)  Shift light (Red) 

NOTE Design and specifications are subject to change without notice.

3-4 Size,Specifications(Meter External Switch)



●Operating temperature	-20~ 85 °C
○Storage temperature	-30~ 90 °C
●Standard	JIS D 0203
●Effective voltage	DC 8 ~ 32V / Max. 50 mA / 1.6W
●Size	About 43.7 x 41.3 x 14.7 mm
●Weight	About 39 g

NOTE Meter external switch (Accessory 8) is suitable for 22.2 mm (7/8") & 25.4 mm (1") handlebar.

NOTE Design and specifications are subject to change without notice.

4-1 Main Menu Switching Description(including the warning screen)-Up button

000
00:00 43520 km
12.5 v 56.8 °C
TEMP

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

NOTE When a warning occurs, press the **Up button** to shift to the warning screen.

When no warning occurs

Alert
00:00
12.5 v 56.8 °C
TEMP

- In the Motor oil warning screen, press the **Up button** to enter the TRIP A screen.

NOTE A warning will only show on the screen when it occurs.

Trip A
00:00 253.0 km
12.5 v 56.8 °C
TEMP

- In the TRIP A screen, press the **Up button** to enter the TRIP B screen.

- Press the **Up button for 3 seconds** to reset Trip A record.

Trip A
00:00 253.0 km
12.5 v 56.8 °C
TEMP

Trip A
00:00 0.0 km
12.5 v 56.8 °C
TEMP

Trip B
00:00 1398.7 km
12.5 v 56.8 °C
TEMP

- In the TRIP B screen, press the **Up button** to enter the TRIP O screen.

- Press the **Up button for 3 seconds** to reset Trip B record.

Trip B
00:00 1398.7 km
12.5 v 56.8 °C
TEMP

Trip B
00:00 0.0 km
12.5 v 56.8 °C
TEMP

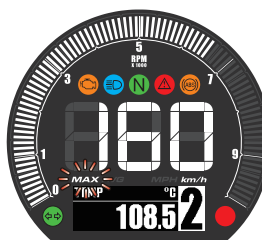
Trip O
00:00 503 km
12.5 v 56.8 °C
TEMP

- In the TRIP O screen, press the **Up button** to enter the Max. record screen.

- Press the **Up button for 8 seconds** to reset Trip O record.

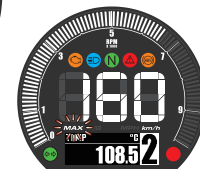
Trip O
00:00 503 km
12.5 v 56.8 °C
TEMP

Trip O
00:00 3000 km
12.5 v 56.8 °C
TEMP



- In the Max. record screen, press the **Up button** to go back to the total mileage screen.

- Press the **Up button for 3 seconds** to reset Max. record screen.



000
00:00 43520 km
12.5 v 56.8 °C
TEMP

- In the total mileage screen.

4-2 Main Menu Switching Description-Down button

000
00:00 43520 km
12.5 v 56.8 °C
TEMP

- In the temperature screen, press the **Down button** to switch to the fuel screen.

000
00:00 43520 km
12.5 v 56.8 °C
Fuel

- In the fuel screen, press the **Down button** to go back to the total temperature screen.

000
00:00 43520 km
12.5 v 56.8 °C
TEMP

- In the temperature screen.

5 Setting Screen Switching Description

● Press the **Up button for 3 seconds** on the main screen(ODO) to switch to the setting screen.

● Press the **Up button or Down button** to select

① Clock ② Unit(Speed/Temperature) ③ Backlight(Brightness) ④ Tire circumference, Sensor point ⑤ Gear ⑥ RPM input pulse, Signal impulse, RPM range ⑦ Fuel resistance ⑧ Speeding warning ⑨ Shift light warning ⑩ Overheat warning ⑪ Fuel warning ⑫ Voltage warning ⑬ Motor oil maintenance ⑭ Warning light warning ⑮ ABS warning ⑯ Internal and External ODO ⑰ Exit

NOTE During setting, if any button is not pressed for 30 seconds, it will automatically return to the startup screen.

● Main screen(ODO)



● Enter the setting screen.



① Clock



② Unit(Speed/Temperature)



⑥ RPM input pulse,
Signal impulse, RPM range



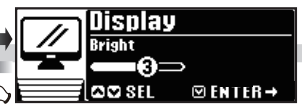
⑤ Gear



④ Tire circumference, Sensor point



③ Backlight(Brightness)



⑦ Fuel resistance



⑧ Speeding warning



⑨ Shift light warning



⑩ Overheat warning



⑭ Warning light warning



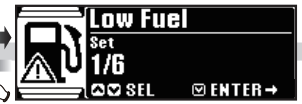
⑬ Motor oil maintenance



⑫ Voltage warning



⑪ Fuel warning



⑮ ABS warning



⑯ Internal and External ODO



⑰ Exit



5-1 Clock Setting



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



- Example : Changing to 12H.

- Press the **Up button** to choose the setting option.

⚠ Now the setting value is flashing.

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



- EX : Set time format from 24 H to 12 H.

- Press the **Down button** to enter time adjustment hour setting.



- Example : To set clock(hour) to 10 hours.

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

⚠ Now the setting value is flashing.

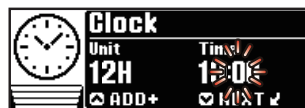
NOTE Cursor moving order is :
Hour → Digit in ten minutes →
Digit in minutes

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



- EX : Set hour from 12:00 AM to 10:00 AM.

- Press the **Down button** to enter clock adjustment minute setting.



- Press the **Down button** to move to the digit you want to set.

- Example : To set clock(minute) as 10 minutes.

⚠ Now the setting value is flashing.

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



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



- EX : Set minute from 0 minutes to 10 minutes.

- Press the **Down button** to go back to the Clock screen.



- The Clock screen.

5-2 Unit (Speed, Temperature) Setting



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



- Example : To set speed unit in MPH.

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

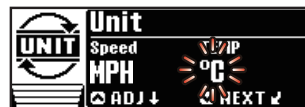
⚠ Now the setting value is flashing.

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



- EX : Set speed unit from km/h to MPH.

- Press the **Down button** to enter the temp. unit setting screen.



- Example : To set temp. unit to °F.

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

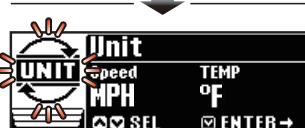
⚠ Now the setting value is flashing.

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



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

- Press the **Down button** to go back to the unit screen.

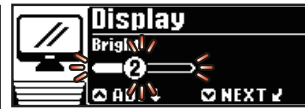


- The unit screen.

5-3 Backlight(Brightness) Setting



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



- EX : The backlight brightness setting is changed from 3/5 (60%) to 2/5 (40%).
- Press the **Down button** to go back to the backlight screen.



- Example : To set the backlight brightness to 2/5(40%).
- Press the **Up button** to choose the setting number.

⚠ Now the setting value is flashing.

NOTE Setting range :
1/5 (Darkest)~ 5/5 (Brightest).
Setting unit : 20% per level.
Default value : 3/5(60%).

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



- The backlight screen

5-4 Tire Circumference and sensor point setting



- The tire circumference and sensor point screen, press the **Down button for 3 seconds** to enter the tire circumference and sensor point setting.

⚠ **CAUTION!**

- Measure the tire circumference (The tire you will install the sensor on) and make sure the number of sensor points.
- 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.



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



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



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



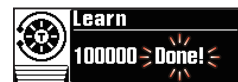
- Example : If the tire circumference is 1,300 mm.
- Press the **Down button** to move to the digit you want to set.

⚠ Now the setting value is flashing.

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

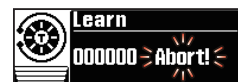


- Ride for 1 km(1 mile); after the arrival, press the **Down button**. Complete learning by return to the tire circumference and sensor point screen.

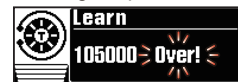


NOTE When mile is set for the unit, ride for 1 mile.

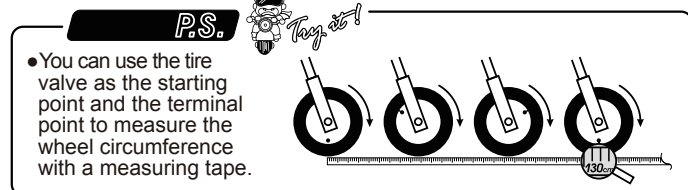
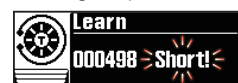
- Press the **Up button** to cancel learning.



- When "Over!" is displayed, the value detected is excessive, exceeding the setting scope.



- When "Short!" is displayed, the value detected is insufficient, lower than the setting scope.



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



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



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



- The tire circumference and sensor point screen

5-5 Gear Setting



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



- **Example :** You want to set the gear setting to ON.
- Press the **Up 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.



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



- Press the **Up button** to start the gear-learning setting.
- Press the **Down button** to go back to the The gear screen.

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, re-set Gear-Learn.

⚠ **CAUTION!**
If gear learning is not required, press **Up button** to cancel the gear learning.

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

P.S. **Try it!**

- During actual gear level learning, select road that is wide and has more straight distance with no traffic lights for more accurate settings and traffic safety.



1 → 2 ○ Change to Gear 2.

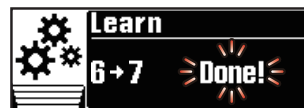
2 → 3 ○ Change to Gear 3.

3 → 4 ○ Change to Gear 4.

4 → 5 ○ Change to Gear 5.

5 → 6 ○ Change to Gear 6.

NOTE Press the **Up button** to quit the learning and return to the main screen.



- After reaching and finishing Gear 6, when 6→7 is displayed, wait for a few seconds to end gear-learning and return to the gear screen.



- The gear screen.

5-6 RPM input pulse & Signal impulse & RPM range



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



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

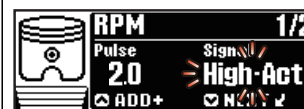
The setting value	The corresponding stroke and pistons number.	The corresponding RPM signal number per ignition.
0.5	— 4C-1P	2 RPM signals per 1 ignition.
1.0	2C-1P 4C-2P	1 RPM signal per 1 ignition.
2.0	2C-2P 4C-4P	1 RPM signal per 2 ignition.
3.0	2C-3P 4C-6P	1 RPM signal per 3 ignition.
4.0	2C-4P 4C-8P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



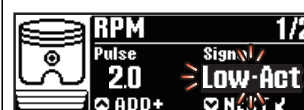
- **EX :** The RPM input pulse setting is changed from 1.0 to 2.0.
- Press the **Down button** to enter the signal impulse setting.



- **Example :** Set the signal impulse to Low-Act.
- Press the **Up 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 **Down button** to enter the RPM range screen.



- **Example** : To set RPM range to 15,000 RPM.
- Press the **Up button** to choose the setting options.

⚠ Now the setting value is flashing.

NOTE Setting range : 10,000RPM/15,000 RPM.
Default value : 10,000 RPM .

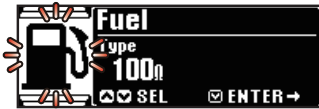


- The RPM input pulse & signal impulse & RPM range screen.



- **EX** : Set RPM range from 10,000 RPM to 15,000 RPM.
- Press the **Down button** to go back to the RPM input pulse & Signal impulse & RPM range screen.

5-7-1 Fuel Gauge Resistance Setting(Ω)



- The fuel gauge resistance screen, press the **Down 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 service manual.
- Press the **Up button** to choose the setting number.

⚠ Now the setting value will blink.

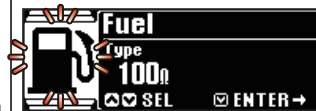
NOTE Settings range : 100 Ω, 250 Ω, 270 Ω, 390 Ω, 510 Ω, 1200 Ω, SW, Custom, OFF.
Default value : 100 Ω.

NOTE Fuel meter will be displayed with the connected.



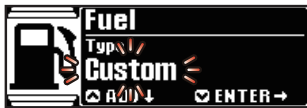
- **EX** : Set fuel gauge resistance value to 100 Ω.
- Press the **Down button** to go back to the fuel gauge resistance screen.

NOTE If the setting is Custom, it will enter the 5-7-2 (manual) and 5-7-3(auto) operation setting.



- The fuel gauge resistance screen.

5-7-2 Fuel Gauge Resistance Setting (Manual)



- Press the **Down button twice** to enter the fuel gauge resistance setting(manual).



- **Example** : To set the lowest fuel level resistance value as 90 Ω.
- Press the **Down button** to move to the digit you want to set.

⚠ Now the setting value is flashing.



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



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



- **Example** : To set the highest fuel level resistance value as 10 Ω.
- Press the **Down button** to move to the digit you want to set.

⚠ Now the setting value is flashing.



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

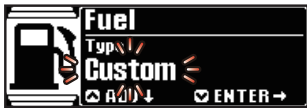


- **EX** : Set the highest fuel level resistance value to 10 Ω.
- Press the **Down button** to go back to the fuel gauge resistance screen.



- The fuel gauge resistance screen.

5-7-3 Fuel Gauge Resistance Setting (Auto Detection)



- Press the **Down 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.



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

The lowest position



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

P.S.



The highest position

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



- EX : Auto Detection the highest fuel level resistance value is 10 Ω.
- Press the **Down button 5 times** to go back to the fuel gauge resistance screen.



- The fuel gauge resistance screen.

5-8 Speeding Warning Setting



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



- Example : To set speeding warning value to 80 KPH.
- Press the **Down 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 **Up button** to choose the setting number.



- EX : Set speed warning value from 60 KPH to 80 KPH.
- Press the **Down button** to go back to the speed warning screen.



- The speed warning screen.

5-9 Shift Light Warning Setting



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



- Example : To set shift light warning value to 12,000 RPM.
- Press the **Down button** to move to the digit you want to set.

Now the setting value is flashing.

NOTE Setting range : 1,000~10,000 RPM / 1,000~15,000 RPM.
Default value : 9,000 RPM / 13,000 RPM.

NOTE According to 5-6 RPM range, as the set value for the scope of RPM differs, the overrun warning scope and value of default setting are different.



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



- EX : Set shift light warning value from 13,000 RPM to 12,000 RPM.
- Press the **Down button** to go back to the shift light warning screen.

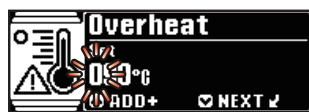


- The shift light warning screen.

5-10 Overheat Warning Setting



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



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

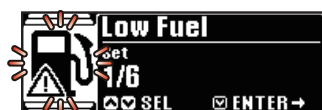


- EX : Set overheat warning value from 90 °C to 120 °C.
- Press the **Down button** to go back to the overheat warning setting.



- The overheat warning screen.

5-11 Low Fuel Warning Setting



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



- Example : To set low fuel warning value to 3/6 .
- Press the **Up button** to choose the setting number.



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



- The low fuel warning screen.

5-12 Voltage Warning Setting



- The voltage warning screen, press the **Down 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 **Down button** 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.



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



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



- The voltage warning screen.

5-13 Motor Oil Maintenance Setting



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



- Example : To set mileage maintenance to (ON).
- Press the **Up button** to choose the setting number.

⚠ Now the setting value will blink.

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



- EX : Set mileage maintenance to (ON).
- Press the **Down button** to enter into the mileage maintenance main screen.

NOTE When is set to OFF, will directly return to mileage maintenance main screen.



- Example : To set mileage maintenance value to 12,000.
- Press the **Down** 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 **Up** button to choose the setting number.



- EX : The motor oil maintenance setting is changed from 500 km to 12,000 km.
- Press the **Down** button to go back to the motor oil maintenance screen.



- The motor oil maintenance screen.

5-14 Warning Light Setting



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



- Press the **Up** button to choose the setting number.
- Press the **Down** button to confirm selection.

⚠ Now the setting value is flashing.

NOTE Setting range : TEMP, L-Fuel, L- Volt, Trip O, T-Gear, Speed.
Default value : TEMP.



- Press the **Up** button to choose the setting number.
- Press the **Down** button to go back to the warning light screen.

⚠ Now the setting value is flashing.

NOTE Setting range : Steady, Flash, S-Flash, OFF.
Default value : S-Flash

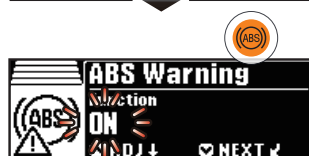


- The warning light screen.

5-15 ABS Warning Setting



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



- Example : To set ABS warning value to ON .
- Press the **Up** button to choose the setting number.

⚠ Now the setting value will blink.

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

⚠ When choosing ON, the ABS signal light (ABS) will activate.



- EX : Set ABS warning to ON.
- Press the **Down** button to go back to the ABS warning screen.



- The ABS warning screen.

5-16 Internal and External ODO Setting



- The internal and external ODO screen, press the **Down** button for 3 seconds to enter the external ODO setting.

⚠ User unable to adjust or clear internal ODO.

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



- **Example** : To set external total distance value to 12,500 km.
- Press the **Down** button 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 **Up** button to choose the setting number.



- **EX** : Set external total distance value from 00,000 km to 12,500 km.
- Press the **Down** button to go back to the internal and external ODO screen.



- The internal and external ODO screen.

5-17 Exit Setting



- The Exit screen, press the **Down** button for 3 seconds to go back to the ODO main screen.



The ODO main screen.

6 Trouble Shooting

The following situations do not indicate malfunction of the meter. Check the following before contacting us.

Trouble	Check item	Trouble	Check item
The meter doesn't work when the power is on.	• 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 displays error.	• Check your fuel tank. • May be poor connection of the harness. → Make sure the wires are connected correctly. • Check the setting. → Check the settings menu, the fuel settings are correct.
The meter shows wrong information.	• Check the voltage of your battery, and make sure the voltage is over DC 12 V.	The clock is incorrect.	• Check the setting. → Check the settings menu, the clock settings are correct.
Speed meter doesn't appear or appears incorrectly.	• May be poor connection of the speed sensor. → Check the speed sensor is connected correctly. • Check the setting. → Refer to the manual 5-4 Tire circumference, Sensor point setting.	The meter indicator didn't display.	• May be due to the reversed power line. → 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). • May be poor connection of the harness. → Make sure the wires are connected correctly.
Tachometer doesn't appear or appears incorrectly.	• Make sure the RPM wire is connected properly. → Check the RPM wire is connected correctly. • Check the spark plug is R type or not. If not, replace the spark plug with the R type spark plug. • Check the setting. → Refer to the manual 5-6 RPM input pulse & Signal impulse & RPM range		
Thermometer doesn't appear or appear incorrectly.	• Make sure the temperature wire is connected properly. → Check the temperature wire is connected correctly. • Check the setting. → Refer to the manual 5-10 overheat warning setting.		

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