



● Thank you for purchasing our product. This product is a multifunction meter that has a digital liquid crystal display (LCD) with a backlight design, and is easy to install. Before using, please read the instructions carefully and retain them for future reference.

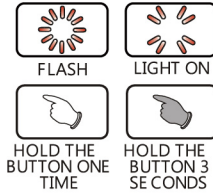
⚠ Notice

- To avoid a short circuit from occurring do not pull or modify the wires during installation.
- Any damages caused by faulty installation shall be imputed to the users.
- Opening and disassembling this unit will void any warranty.
- Maintenance and repairs should be executed by our professionals only.

● Symbol description:

NOTE

- ⚠ Procedures must be followed in order to avoid faulty installation.
- ⚠ **WARNING!** Procedures must be followed in order to avoid damages from occurring to yourself and others.
- ⚠ **CAUTION!** Procedures must be followed in order to avoid damages from occurring to the vehicle.



1-1 Accessories

1 LCD Meter X1	2 TH-01_PT 1/8 Temperature sensor X1	3 RPM wire (TYPE A) X1	4 RPM wire (TYPE B) X1
5 Sensor wire set X1	6 Active speed sensor X1	7 M8 / S type speed sensor bracket X1	8 M10 / S type speed sensor bracket X1
9 M5X5Lmm Hexagon screw X2	10 2.5 mm Allen key X1	11 Meter bracket X1	12 Handle bar clamp X1
13 Rubber X1	14 M6X18L screw X1	15 M5XP0.8 nut X3	16 M6XP1.0 nut X1
17 M5 washer X3	18 M6 washer X1	19 External button X1	

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

1-2 Optional accessories

1 L TYPE speed sensor bracket	2 Temperature sensor adapter
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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

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

2-1 Wiring installation instructions

Orange - L turn signal light (+12V)
Blue - R turn signal light (+12V)
Yellow - High beam light (+12V)
White - Neutral light (-)
Green - Fuel
Purple - Engine light (-)

Red - Postive pole (Connect to the battery DC 12V)
Mid-way connector

Brown - Positive wire should be connect to main power switch.
Black - Ground wire connects directly to the negative pole of the battery.

Brown / Red - RPM wire please connect it to the suitable position according to the models

Orange / White - Pushbutton switch terminal
External button (Accessories 19)

Connect to speed sensor
Active speed sensor (Accessories 6)

Yellow / White - Temperature sensor terminals
Sensor wire set (Accessories 5)
TH-01_PT 1/8 Temperature sensor (Accessories 2)

RPM wire (TYPE B) (Accessories 4)
RPM wire (TYPE A) (Accessories 3)

Ignition coil positive
EMS CDI
Flywheel
Ignition pulse
Pick up
RPM wire (TYPE B) (Accessories 4)

Coil
Spark plug wire
Spark plug
Spark plug cap

Tachometer

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

Main power switch wire 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

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

RPM wire reference:

	Power	BUELL	Pink
YAMAHA	Yellow / Black	CAGIVA	Gray / Green
HONDA	Yellow / Green	DUCATI	Gray / Green
SUZUKI	Yellow / Blue	H-D	Pink
KAWASAKI	Light Blue	MV	Gray / Yellow
APRILIA	Gray / Violet	TRIUMPH	Red
BMW	Black		
BENELLI	Gray / Violet		

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

Fuel indicator wire reference:

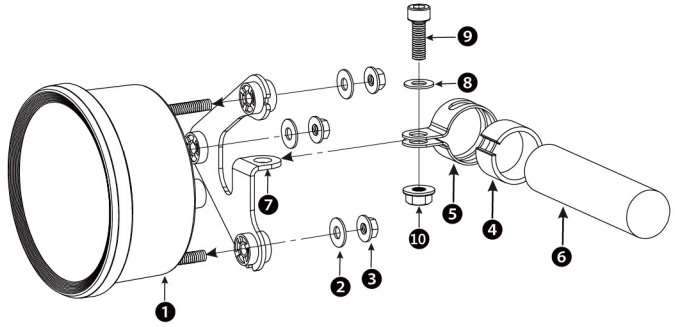
	Green	KYMCO	Yellow / White
YAMAHA	Yellow / White	SYM	Yellow / White
HONDA	Yellow / White	PGO	Gray
SUZUKI	Yellow / White		
KAWASAKI	Black / L Green		

⚠ The fuel sensor is electronic type, do not connect in parallel with the original wire - otherwise the fuel gauge won't display. The wrong installation of the fuel wire might damage the instrument.

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.
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




When installing, please follow the steps below.


1. LCD Meter (Accessories 1)
2. M5 washer (Accessories 17)
3. M5XP0.8 nut (Accessories 15)
4. Rubber (Accessories 13)
5. Handle bar clamp (Accessories 12)
6. Bike handle
7. Meter bracket (Accessories 11)
8. M6 washer (Accessories 18)
9. M6X18L screw (Accessories 14)
10. M6XP1.0 nut (Accessories 16)

NOTE Adjust the meter to the proper angle before tightening the handle bar bracket screws.


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 catching good speed signal.


MOTO / SCOOTER L type speed sensor bracket instruction



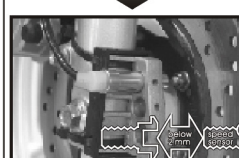
Install the L bracket and the anti-slip rubber on the front fork and adjust it to the proper height and angle.



Install the speed sensor on the bracket.



Use the cable tie to fix the bracket on the front fork. Please 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.



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

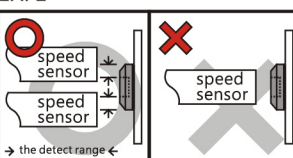
PS. The active speed sensor could be installed by the metal parts to detect the speed.

EX. 1 The disc screw.
EX. 2 The disc to detect the disc gap. (Please 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. (Please 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.

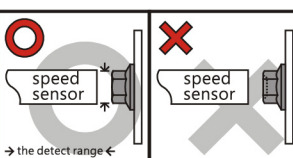
We suggest you to catch the speed from the disc screws. The more the sensor points are, the better the speed accuracy is. The maximum sensor points the speed sensor could detect is 20 points per turn.

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

EX. 1

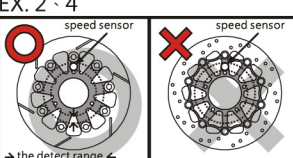


The hexagon socket disc screw
The best detect area: The edge of the hexagon socket screw.
⚠ Please don't catch the signal from the middle hole of the hexagon socket screw to avoid wrong signal.



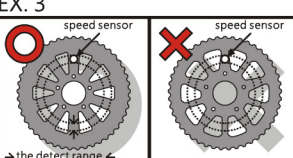
The hexagon screw
The best detect area: The middle of the screws.
⚠ Some hexagon screw center is with a small hole in the center in this case, we will suggest you to catch the signal from the edge of the screw like the hexagon socket screw.

EX. 2 · 4




The disc
The best detect area: Please detect the speed signal from the gaps of the disc.
⚠ Please 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: Please detect the speed signal from the gaps of the sprocket.
⚠ Please note that there are sprockets with the gaps in different difference, and this method will not work on it!

3-1 Basic function instruction



Tachometer
● Display Range : 0 ~ 10,000 RPM

Indicator ● ● ●

● Warning cause : Overspeed, over rpm, overheat, under voltage, low fuel, reached motor oil maintenance mileage, maximum gear level
● Warning method : Lit.(L), Slow flash(S), Flash(F)

Indicator ● Neutral ● High beam light ● Trun signal ● Engine warning light

Gear meter
● Display range : OFF, highest gear, N and highest gear, show all (N / 1 ~ 6)

Fuel meter
● Display Range : 6 Levels

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

Odometer
● Display range : 0 ~ 999,999 km (mile) return to zero upon exceed
● Display unit : 1 km (mile)
Distance meter A,B
● Display range : 0 ~ 9,999.9 km (mile) return to zero upon exceed
● Display unit : 0.1 km (mile)
Mileage maintenance user settings (closable)
● Display range : user adjustable (500 ~ 16,000km / 300 ~ 10,000 mile) ~ -999 mile, automatically decreases according to the increase of total mileage.
● Display unit : 1 km (mile)
Time
● Display range : 12 / 24 hour format
Temperature
● Display range : 0 ~ 250 °C (32 ~ 482 °F)
Voltmeter
● Display range : 8 ~ 18 V

Max. speed record
● Display range : 0 ~ 360 km/h (0 ~ 255 mph)
Max. RPM
● Display range : 0 ~ 10,000 RPM

Max. temperature record
● Display range : 0 ~ 250 °C (32 ~ 482 °F)
Max gear level record
● Display range : -(No display) ~ 9 gear level

3-2 Features and settings description

● Speedometer	Display range : 0 ~ 360 km/h (0 ~ 225 MPH) switchable Display unit : 1 km/h (MPH)	● Thermometer	Display range : 0 ~ 250°C (32 ~ 482°F)
○ Speedometer unit	Setting range : km/h · MPH	○ Thermometer unit	Setting range : °C · °F
○ Over speed warning	Setting range : 0 ~ 360 km/h (0 ~ 225MPH) · warning sign will be given once exceed (include) setting value. Setting unit : 1 km/h (MPH)	○ Over temp warning	Setting range : 0 ~ 250°C (32 ~ 482°F) · warning sign will be given once exceeding the setting value. Setting unit : 1°C(°F)
○ Tire circumference	Setting range : 300 ~ 2,500 mm Setting unit : 1 mm	● Warning 0 · Warning 1 · Warning 2	
○ Sensitive point	Setting range : 1 ~ 20 point Setting unit : 1 point	○ Warning cause	Overspeed, over rpm, overheat, under voltage, low fuel, reached motor oil maintenance mileage, maximum gear level
○ Internal and external odometer	Display range : 0 ~ 999,999 km (mile) return to zero upon exceed Display unit : 1 km (mile)	○ Warning method	Lit.(L), Slow flash(S), Flash(F)
○ Trip meter A · B	Display range : 0 ~ 9,999.9 km (mile) return to zero upon exceed Display unit : 0.1 km (mile)	● Fuel meter	100Ω · 250Ω · 270Ω · 510Ω · 1200Ω · fuel switch · USER
● Maintenance mileage	Setting range : OFF, 500 ~ 16,000 km (300 ~ 10,000 mile) Setting unit : 100 km (mile)	● Clock	Setting range : 12 / 24 hour format
● Gear meter	Display range : OFF, highest gear, N and highest gear, show all (N / 1 ~ 6)	● Voltmeter	Display range : 8.0 ~ 18.0 V
● Tachometer	Display range : 0 ~ 10,000 RPM	● Under voltage warning	Setting range : 8.0 ~ 18.0 V · warning sign will be given once below(include)setting value.
○ RPM signal	Setting range : P-0.5 · P-1 ~ P-24	● Backlight brightness	Setting range : 1 - 5 (darkest) ~ 5 - 5 (brightest)
○ The RPM input pulse	Setting range : Hiact · Loact	○ Backlight color	Setting range : red, orange, yellow, green, blue, light blue, purple, white
○ Over RPM warning	Setting range : 0 ~ 10,000 RPM · warning sign will be given once exceed(include) setting value. Setting unit : 100 RPM	○ Operating voltage	DC 12V
		● Temperature range	-10 ~ +60°C
		○ Specifications	JIS D 0203(S2)
		● Meter Size	D 94.7 X 55.8 mm
		○ Meter Weight	165 g
		● Indication light	● Warning 0 ● Trun signal ● Warning 1 ● High beam light ● Warning 2 ● Engine warning light ● Neutral

NOTE Design and specification may change without further notice.

3-3 Main menu switching description

● In the total mileage screen, press the button once to switch to Trip A screen.

● Hold the button for 3 seconds to enter into the setting screen.

● Trip A screen, press the button once to switch to Trip B screen.

● Hold the button for 3 seconds to clear the Trip A recordings.

● Trip B screen, press the button once to switch to the mileage maintenance screen.

● Hold the button for 3 seconds to clear the Trip B recordings.

● Mileage maintenance screen, press the button once to switch to the clock screen.

● Mileage maintenance will count down from setting value, when it reaches 0, the screen will blink to indicate mileage reached.

● Hold the button for 8 seconds to clear the mileage maintenance recordings.

○ In the 0 second, start holding the button.

○ In the 5th second, mileage display will begin blinking.

○ During the 4~7th seconds, if release button, will cancel the process.

○ On the 8th second, the mileage maintenance record is cleared.

● In the clock screen, press the button once to switch to the temperature screen.

● In the engine temperature screen, press the button once to switch to the voltage screen.

● In the voltage screen, press the button once to switch to the MAX screen.

● In the MAX screen, press the button once to return to total mileage screen.

● Hold the button for 3 seconds to clear the MAX screen.

4-1 Clock settings

● In the clock settings screen, hold the button for 3 seconds to enter into the setting screen.

● EX : To set hours to 12.

● Press the button once to choose the setting number.

▲ Now the setting value will blink.

NOTE Setting value : 24 H.

NOTE Setting range : 12 / 24 hour format.

● EX : Set time settings from 24 hour format to 12 hours format.

● Hold the button for 3 seconds to enter time into the (hour) settings screen.

● Example : You want to change the hour to PM.10.

● Press the button once to choose the setting number.

▲ Now the setting value will blink.

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

NOTE Setting range : 1 ~ 12 (12H), 0 ~ 23 (24H).

● Example : Set time settings from AM.12 to PM.10.

● Hold the button for 3 seconds to enter time into the (minutes) settings screen.

● Example : You want to change the minutes to 15.

● Press the button once to choose the setting number.

▲ Now the setting value will blink.

NOTE Setting range : 00 ~ 59 minutes.

● Hold the button for 3 seconds to move the cursor to the desired settings level.

● EX : Set time settings from 0 to 15.

● Hold the button for 3 seconds to go back clock screen.

● Clock screen.

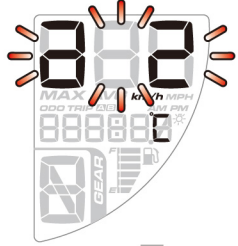
● Press the button once to enter next setting.

4 Settings and features index screen


● When the engine switch is OFF, hold the button for 3 seconds to enter settings.

- Features index screen
 - a 1. Time (time format, time adjustment) - refer to procedure - - - - 4-1
 - a 2. Unit (speed unit, temperature unit) - refer to procedure - - - - - 4-2
 - a 3. Back light (back light color, brightness) - refer to procedure - - - - 4-3
 - a 4. Tire (tire ratio percentage) - refer to procedure - - - - - 4-4
 - a 5. RPM (ignition angle, waveform) - - - - - 4-5
 - a 6. Gear (gear indicating mode) - refer to procedure - - - - - 4-6
 - a 7. Fuel - - - - - 4-7
 - └ 1. Fuel resistance setting - - - - - 4-7-1
 - └ 2. User customized setting - - - - - 4-7-2
 - a 8. Warning value / Warning indicator - - - - - 4-8
 - └ 1. Warning indicator operation settings - overspeed - - - - - 4-8-1
 - └ 2. Warning indicator operation settings - over rpm - - - - - 4-8-2
 - └ 3. Warning indicator operation settings - overheat - - - - - 4-8-3
 - └ 4. Low voltage warning value setting - - - - - 4-8-4
 - └ 5. Warning indicator A setting - - - - - 4-8-5
 - └ 6. Warning indicator B setting - - - - - 4-8-6
 - └ 7. Warning indicator C setting - - - - - 4-8-7
 - a 9. Mileage maintenance - refer to procedure - - - - - 4-9
 - a 10. Total mileage - refer to procedure - - - - - 4-10
 - └ 1. Unable to adjust internal mileage - - - - - 4-10-1
 - └ 2. Able to adjust external mileage - - - - - 4-10-2
 - Exit settings

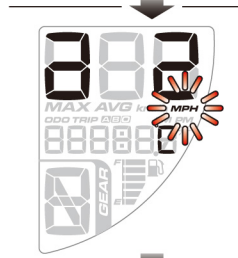
4-2 Speed, temperature unit settings



- In the speed, temperature unit settings screen, hold the **button** for 3 seconds to enter into the setting screen.

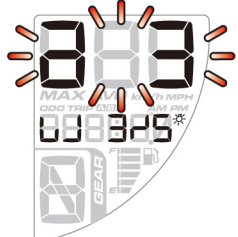


- EX : To set speed unit to MPH ◦
- Press the **button** once to choose the setting number.
- ▲ Now the setting value will blink.
- NOTE Default value : km/h ◦
- NOTE Setting range : km/h ◦ MPH ◦
- NOTE Total mileage and distance meter unit will vary according to the speed unit.

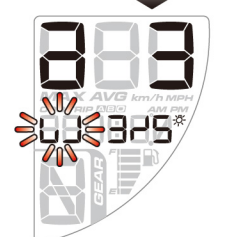


- Example : Set speed unit from km/h to MPH ◦
- Hold the **button** for 3 seconds to enter into the temperature unit settings screen.

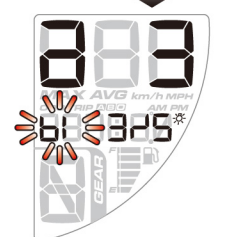
4-3 Backlight brightness settings




- In the backlight (color / brightness) settings screen, hold the **button** for 3 seconds to enter into the setting screen.



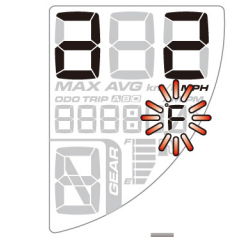
- EX : To set the backlight (color) to blue.
- Press the **button** once to choose the setting number.
- ▲ Now the setting value will blink.
- NOTE Default value : White light.
- NOTE Setting range : Red (rE), Orange (Or), Yellow (YE), Green (Gr), Blue (bl), Blue light (ln), Purple (Pu), White (W).



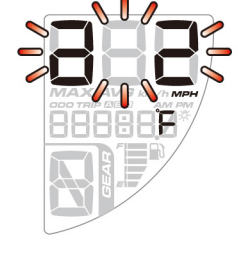
- Example : Set backlight color from white(W) to blue(bl).
- Hold the **button** for 3 seconds to enter into the backlight (brightness) settings screen.




- EX : To set the temperature unit to ◦F ◦
- Press the **button** once to choose the setting number.
- ▲ Now the setting value will blink.
- NOTE Default value : ◦C ◦
- NOTE Setting range : ◦C ◦ ◦F ◦




- Example : Set temperature unit from ◦C to ◦F ◦
- Hold the **button** for 3 seconds to return to the speed, temperature unit settings main screen.



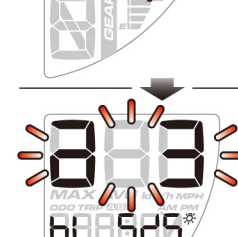
- Temperature unit settings main screen.
- Press the **button** once to enter next setting.



- EX : To set the backlight (brightness) to 5/5 (100%).
- Press the **button** once to choose the setting number.
- ▲ Now the setting value will blink.
- NOTE Default value : 3/5
- NOTE Settings range : 1 / 5 (darkest) ~ 5 / 5 (brightest)
- Setting unit : Each stage about 20% brightness.
- Back light brightness changes as soon as setting value changes.

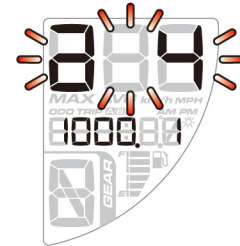


- Example : Set the backlight (brightness) from 3 / 5 (60%) to 5 / 5 (100%).
- Hold the **button** for 3 seconds to return to the backlight (Color / Brightness) settings main screen.




- Backlight (color/brightness) settings main screen.
- Press the **button** once to enter next setting.

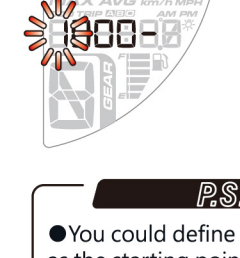
4-4 Tire overall diameter, Induction spot, Learning operation setting




- Main screen for tire overall diameter, induction spot operation setting, hold the **button** for 3 seconds to enter into the setting screen.
- ▲ CAUTION!
- Please 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, please make sure the setting number is correct before you make the setting.
- ▲ Please reset this function upon changing the tire size.

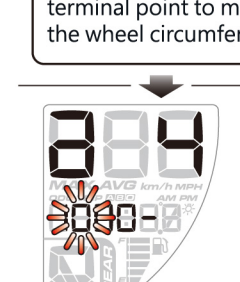


- EX : To set the tire circumference to 1,300 mm.
- Hold the **button** for 3 seconds to move the cursor to the desired settings level.
- ▲ Now the setting value will blink.
- NOTE Default value : 1,000 mm
- NOTE Settings range : 300 ~ 2,500 mm.
- Settings unit : 1 mm

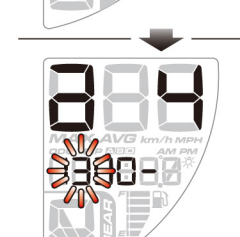


PS. 

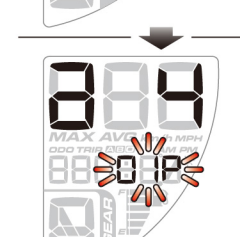
- You could define the valve as the starting point and the terminal point to measure the wheel circumference with a measuring tape.




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




- Example : Set the tire circumference from 1,000 mm to 1,300 mm.
- Hold the **button** for 3 seconds to enter the sensor point setting screen.




- EX : To set the sensor point to 6P.
- Press the **button** once to choose the setting number.
- ▲ Now the setting value will blink.
- NOTE Default value : 1P
- NOTE Settings range : 1 ~ 20 P



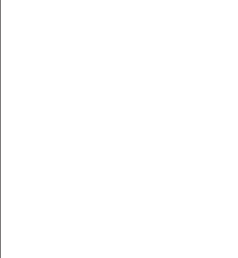
- Example : Set the sensor point from 1P to 6P.
- Hold the **button** for 3 seconds to enter the tire overall diameter and induction spot learning operation setting screen.



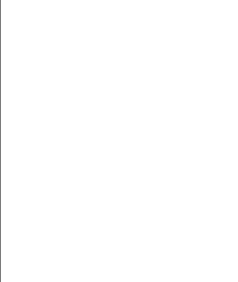
- Example : When the meter shows LEARn, it shall be blinking.
- Press the **button** once Enter tire overall diameter and induction spot learning.
- NOTE If learning the gear is not required, hold the **button** for 3 seconds, return to the main screen for tire overall diameter, induction spot operation setting.



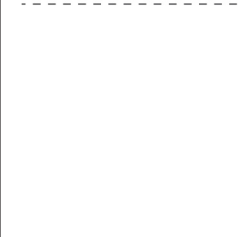
- When GO is blinking, start riding the motorbike.
- Press the **button** once commence the overall value and induction spot learning.
- NOTE If learning the gear is not required, hold the **button** for 3 seconds, return to the main screen for tire overall diameter, induction spot operation setting.



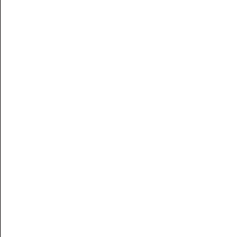
- NOTE If the unit setting is km, please ride for 1 km; If the unit setting is mile, please ride for 1 mile. To alter the display unit, please refer to 4-2.
- The display value would increase with the movement of the vehicle.



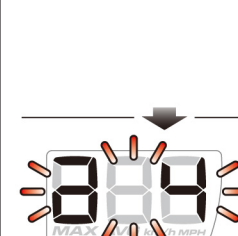
- NOTE To drop learning, short-press the button to return to the main screen for tire overall diameter and induction spot operation setting.



- When the vehicle has traveled to a distance of 1km (mile), press and hold the button for three seconds to complete the process, and return to the main screen for tire setting.
- When QUEr is displayed, the value detected is excessive, exceeding the setting scope. The screen will return to the main screen for tire overall diameter, induction spot operation setting.

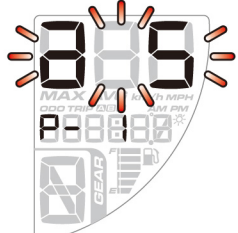


- When SRAPE is displayed, the value detected is insufficient, lower than the setting scope. The screen will return to the main screen for tire overall diameter, induction spot operation setting.




- Tire overall diameter, induction spot operation settings main screen.
- Press the **button** once to enter next setting.

4-5 RPM pulse setting

 ● In the RPM pulse settings screen, hold the **button** for 3 seconds to enter into the setting screen.

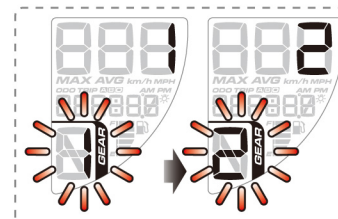
● EX : To set the RPM signal wire to the pick up signal and there are 13 flywheel signals per turn.
● Press the **button** once to choose the setting number.
▲ Now the setting value will blink.
NOTE Default value : P-1
NOTE Settings range : P-0.5 · P-1 ~ P-24

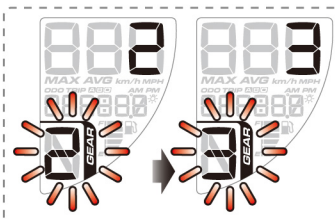
● Example : Set the engine ignition angle from P-1 to P-13.
● Hold the **button** for 3 seconds to enter waveform setting screen.

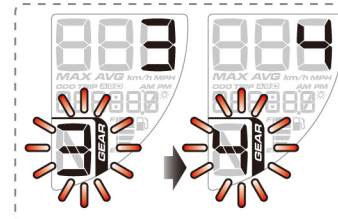
 ● EX : To set waveform to high waveform (Lo-Act).
● Press the **button** once to choose the setting number.
▲ Now the setting value will blink.
NOTE Default value : Hi-Act
NOTE Settings range : Hi-Act · Lo-Act

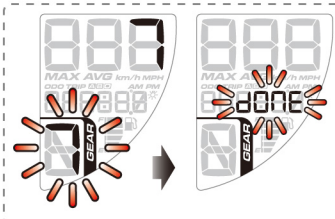
● Example : Set the high wave (Hi-Act) to low wave (Lo-Act).
● Hold the **button** for 3 seconds to return to the RPM pulse settings main screen.

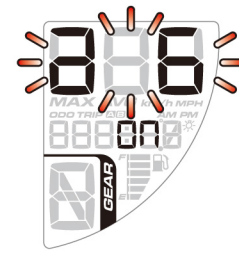
● RPM pulse settings main screen.
● Press the **button** once to enter next setting.

 ● When the 1st Gear is blinking, please change the gear of the bike to 1st gear and keep riding the bike for few seconds. The setting is completed when the signal has detected the accurate 1st gear value, and the process will move on to the 2nd gear.

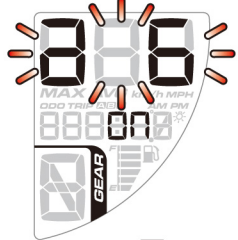
 ● When the 2nd Gear is blinking, please change the gear of the bike to 2nd gear and keep riding the bike for few seconds. The setting is completed when the signal has detected the accurate 2nd gear value, and the process will move on to the 3rd gear.

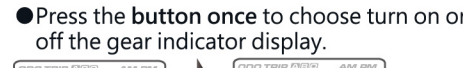
 ● When the 3rd Gear is blinking, please change the gear of the bike to 3rd gear and keep riding the bike for few seconds. The setting is completed when the signal has detected the accurate 3rd gear value, and the process will move on to the 4th gear.

 ● If the highest gear for the bike is the 6th gear, when the gear learning model has reached the 7th gear and it is unable to detect the accurate gear after pending for few seconds, it will end the learning process and return to the setting screen.


 ● Gear level learning settings main screen.
● Press the **button** once to enter next setting.

4-6 Gear level learning setting


 ● In the gear learning settings screen, hold the **button** for 3 seconds to enter into the setting screen.

● Press the **button** once to choose turn on or off the gear indicator display.

NOTE If any changing happen for tires circumference then the gear indicator need to re-learn the gear positioning.
NOTE Default value : ON
NOTE Settings range : ON · OFF

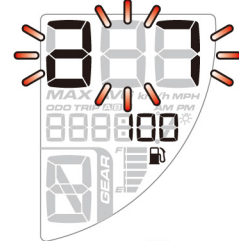
● When gear level display is "ON", hold the **button** for 3 seconds to enter gear level learning screen.
● When gear level display is "OFF", hold the **button** for 3 seconds to return to gear level learning setting screen.
● Example : Gear level display is "ON".

 ● Example : When chronograph display LEARN, it will blink.
● Press the **button** once to start the gear learning.
NOTE Hold the **button** for 3 seconds to quit the learning and return to the previous screen.


● Start the riding when "GO" is flashing.
● Hold the **button** for 3 seconds to start the gear learning.
NOTE Press the **button** once to quit the learning and return to the previous screen.

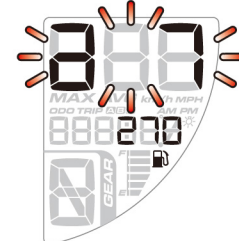
 ● During actual gear level learning, please select road that is wide and has more straight distance with no traffic light for more accurate settings and traffic safety.

4-7-1 Fuel gauge resistance setting

 ● In the fuel gauge resistance screen, hold the **button** for 3 seconds to enter into the setting screen.


● EX : To set the fuel gauge resistance to 270 Ω.
● Press the **button** once to choose the setting number.
▲ Now the setting value will blink.
NOTE Default value : 100 Ω
NOTE The fuel gauge resistance setting range : CUST · 100 Ω · 250 Ω · 270 Ω · 510 Ω · 1200 Ω · SW (turn off).
NOTE Fuel meter will be displayed with the wiring connected.

 ● Example : Set fuel meter's resistance value from 100 Ω to 270 Ω.
● Hold the **button** for 3 seconds to return to the fuel gauge resistance settings main screen.
NOTE If the setting is CUST, it will enter the 4-7-1 (manual) and 4-7-2 (auto) operation setting.

 ● Fuel gauge resistance settings main screen.
● Press the **button** once to enter next setting.

4-7-2 User customized operation setting

● Hold the **button** for 3 seconds, enter the minimum fuel resistance auto-detection screen.



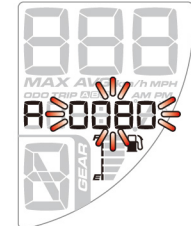
● Press the **button** once, enter the minimum fuel resistance auto-detection screen.

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.

NOTE If auto-detection is not required, hold the **button** for 3 seconds, and enter the low fuel resistance manual setting.

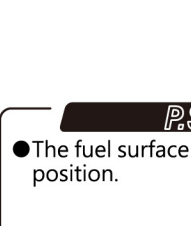
P.S. The lowest position



● Example : The minimum fuel resistance increased to 82Ω from 80Ω after the auto-detection.

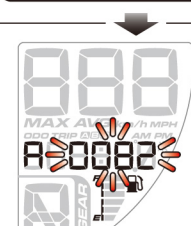
- Hold the **button** for 3 seconds, enter the manual operation setting.

▲ Now the setting value will blink.

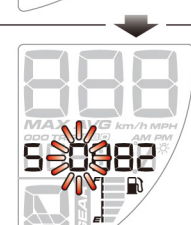


● Hold the **button** for 3 seconds to move the cursor to the desired settings level.

NOTE If manual setting is not required, hold the **button** for 3 to 4 seconds, and enter the maximum fuel resistance auto-detection screen.




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



● Example : The minimum fuel resistance increased to 82Ω from 80Ω after setting.

- Hold the **button** for 3 seconds, enter the maximum fuel resistance auto-detection screen.



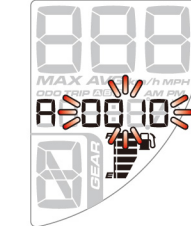
● Press the **button** once, learn the maximum fuel resistance auto-detection screen.

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.

NOTE If auto-detection is not required, hold the **button** for 3 seconds, and enter the high fuel resistance manual setting.

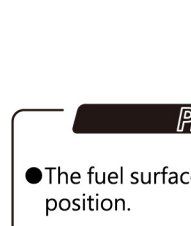
P.S. The highest position



● Example : The maximum fuel resistance increased to 13Ω from 10Ω after the auto-detection.

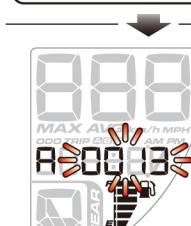
- Hold the **button** for 3 seconds, enter the manual operation setting.

▲ Now the setting value will blink.

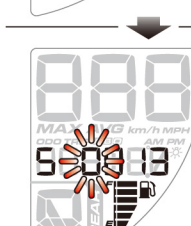


● Hold the **button** for 3 seconds to move the cursor to the desired settings level.

NOTE If manual setting is not required, hold the **button** for 3 to 4 seconds, and return to the fuel meter resistance (Ω) setting main screen.



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

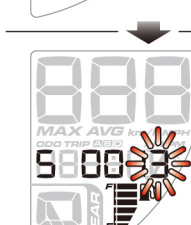
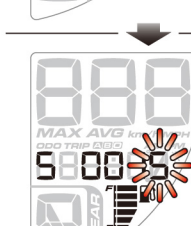
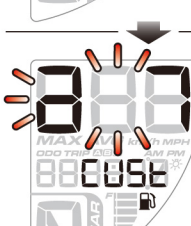


● Example : The maximum fuel resistance increased to 15Ω from 13Ω after setting.

- Hold the **button** for 3 seconds to return to the fuel gauge resistance settings main screen.


● Fuel gauge resistance settings main screen.

- Press the **button** once to enter next setting.

4-8 Warning indicator operation settings (Over RPM, Overspeed, Overheat) / Warning Indicator Operation Settings (Warning A/Warning B/Warning C)

● In warning indicator setting screen, hold the **button** for 3 seconds to enter sub screen for warning indicator setting.




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

▲ Now the setting value will blink.

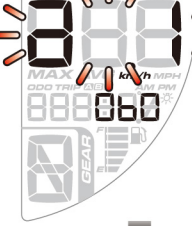
NOTE

- Warning indicator operation setting -overspeed, please refer to 4-8-1.
- Warning indicator operation setting -over rpm, please refer to 4-8-2.
- Warning indicator operation setting -overheat, please refer to 4-8-3.
- Warning value operation setting -low voltage, please refer to 4-8-4.
- Warning indicator operation setting -warning A, please refer to 4-8-5.
- Warning indicator operation setting -warning B, please refer to 4-8-6.
- Warning indicator operation setting -warning C, please refer to 4-8-7.




4-8-1 Warning indicator operation settings - overspeed

● Hold the **button** for 3 seconds to enter overspeed warning setting screen.



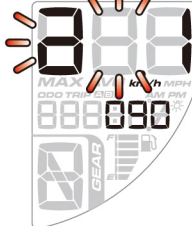
● Example : Set the overspeed warning value from 60 km/h to 90 km/h.

- Hold the **button** for 3 seconds to return to warning indicator settings main screen.



● Warning indicator resistance settings main screen.

- Press the **button** once to enter next setting.




● EX : To set overspeed warning value to 70 km/h.

- Hold the **button** for 3 seconds to move the cursor to the desired settings level.


▲ Now the setting value is flashing!

NOTE Default value : 60 km/h (38 MPH)

NOTE Setting range : 60 ~ 360 km/h (37 ~ 225 MPH).




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




4-8-2 Warning indicator operation settings - over rpm

● Hold the **button** for 3 seconds to enter over rpm warning setting screen.



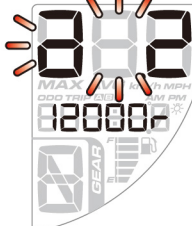
● Example : Set the over rpm warning value from 9,000 RPM to 12,000 RPM.

- Hold the **button** for 3 seconds to return to warning indicator settings main screen.



● Warning indicator resistance settings main screen.

- Press the **button** once to enter next setting.




● EX : To set over rpm warning value to 12,000 RPM.

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


▲ Now the setting value is flashing!

NOTE Default value : 9,000 RPM

NOTE Setting range : 1,000 ~ 10,000 RPM



● Hold the **button** for 3 seconds to move the cursor to the desired settings level.



4-8-3 Warning indicator operation settings - overheat

- Hold the **button** for 3 seconds to enter overheat warning setting screen.
- Example : Set the warning indicator from over rpm to overheat.

- Example : Set the overheat warning value from 90 °C to 95 °C.
- Hold the **button** for 3 seconds to return to warning indicator settings main screen.

- EX : To set overheat warning value to 90 °C.
- Press the **button** once to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE Default value : 90 °C (194 °F)
- NOTE Setting range : 60 °C ~ 250 °C (140 ~ 482 °F)

- Warning indicator resistance settings main screen.
- Press the **button** once to enter next setting.

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

4-8-4 Warning indicator operation settings - Low Voltage

- Example : Set the warning indicator from overheat to low voltage.
- Hold the **button** for 3 seconds to enter low voltage warning setting screen.

- Example : Set the low voltage warning value from 11.5 V to 10.0 V.
- Hold the **button** for 3 seconds to return to warning indicator settings main screen.

- EX : To set low voltage warning value to 10.0 V.
- Press the **button** once to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE Default value : 11.5 V
- NOTE Setting range : 8.0 ~ 18.0 V

- Warning indicator resistance settings main screen.
- Press the **button** once to enter next setting.

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

4-8-5 Warning Indicator Operation Setting - Warning A

- Hold the **button** for 3 seconds to enter Warning A - warning source screen.
- Example : Warning indicator operation setting is changed to warning a from the low voltage.

- EX : Warning A - If you wish to set the warning method as blinking.
- Press the **button** once to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE Default value : Lit
- NOTE Setting range : Lit → Blinking → Flashing

- EX : Warning A - If you wish to set the warning source as overspeed.
- Press the **button** once to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE Default value : Over-running
- NOTE Setting range : Overspeed → Over-running → Overheat → Low voltage → Low fuel → Reached the engine oil maintenance mileage → Highest gear

- Example : Warning A - Warning method is altered to blinking from lit.
- Hold the **button** for 3 seconds, return to warning a - warning source screen.

- Example : Warning A - Warning source altered to overspeed.
- Hold the **button** for 3 seconds, enter warning A - warning method screen.

- Warning A - resistance settings main screen.
- Press the **button** once to enter next setting.

4-8-6 Warning Indicator Operation Setting - Warning B

- Hold the **button** for 3 seconds to enter Warning B - warning source screen.
- Example : The warning indicator operation setting is changed to Warning A from Warning B.

- EX : Warning B - If you wish to set the warning method as blinking.
- Press the **button** once to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE Default value : Lit
- NOTE Setting range : Lit → Blinking → Flashing

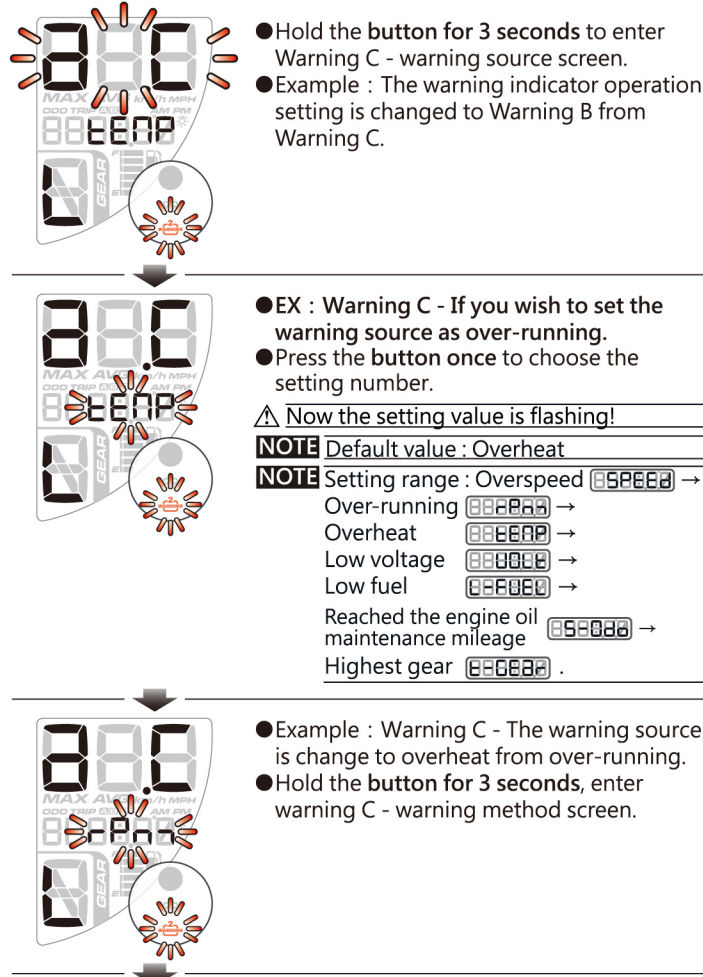
- EX : Warning B - If you wish to set the warning source as low fuel.
- Press the **button** once to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE Default value : Low voltage
- NOTE Setting range : Overspeed → Over-running → Overheat → Low voltage → Low fuel → Reached the engine oil maintenance mileage → Highest gear

- Example : Warning B - Warning method is altered to blinking from lit.
- Hold the **button** for 3 seconds, return to warning B - warning source screen.

- Example : Warning B - The warning source is changed to low fuel from low voltage.
- Hold the **button** for 3 seconds, enter warning B - warning method screen.

- Warning B - resistance settings main screen.
- Press the **button** once to enter next setting.

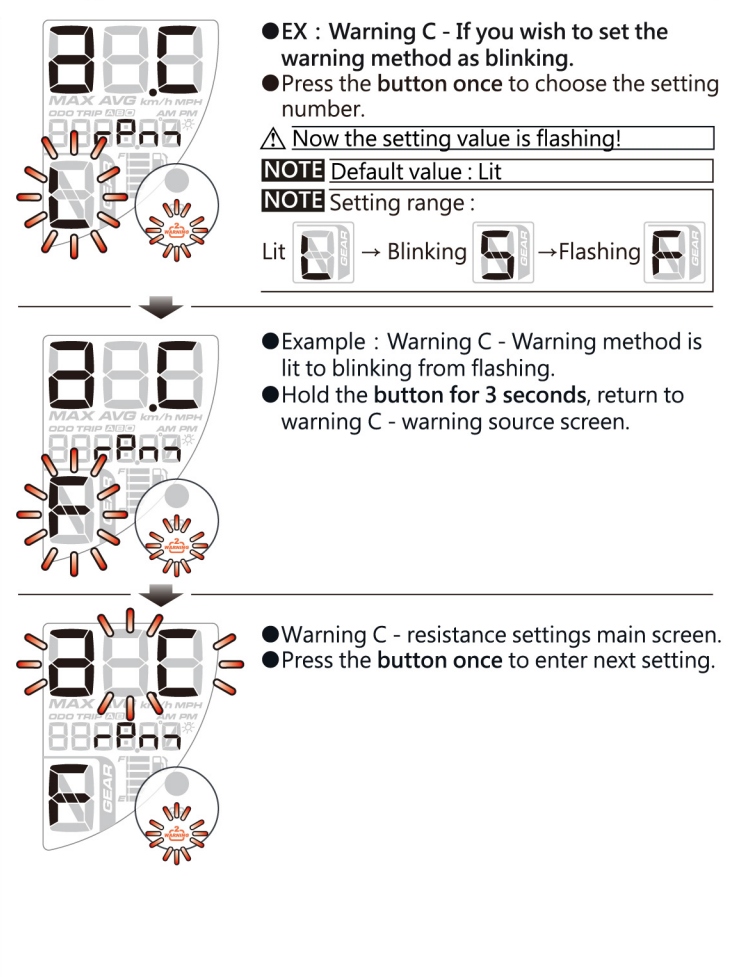
4-8-7 Warning Indicator Operation Setting - Warning C



- Hold the **button** for 3 seconds to enter Warning C - warning source screen.
- Example : The warning indicator operation setting is changed to Warning B from Warning C.

- EX : Warning C - If you wish to set the warning source as over-running.
- Press the **button** once to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE Default value : Overheat
- NOTE Setting range : Overspeed **85PREE** → Over-running **88PREE** → Overheat **89PREE** → Low voltage **8APREE** → Low fuel **8BPREE** → Reached the engine oil maintenance mileage **8CPREE** → Highest gear **8DPREE** .

- Example : Warning C - The warning source is change to overheat from over-running.
- Hold the **button** for 3 seconds, enter warning C - warning method screen.

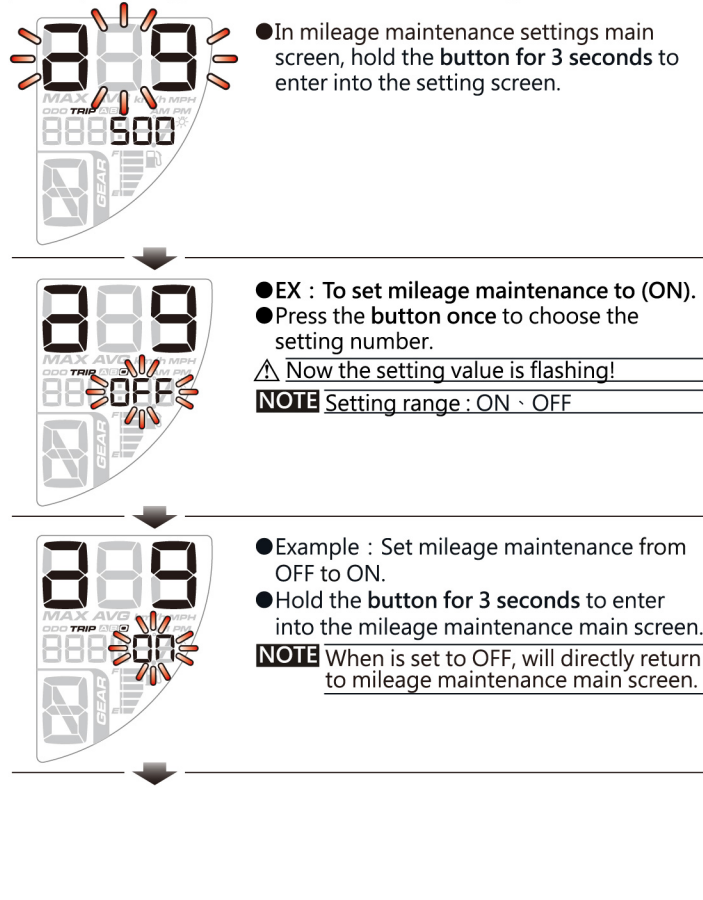


- EX : Warning C - If you wish to set the warning method as blinking.
- Press the **button** once to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE Default value : Lit
- NOTE Setting range : Lit **8** → Blinking **9** → Flashing **A**

- Example : Warning C - Warning method is lit to blinking from flashing.
- Hold the **button** for 3 seconds, return to warning C - warning source screen.

- Warning C - resistance settings main screen.
- Press the **button** once to enter next setting.

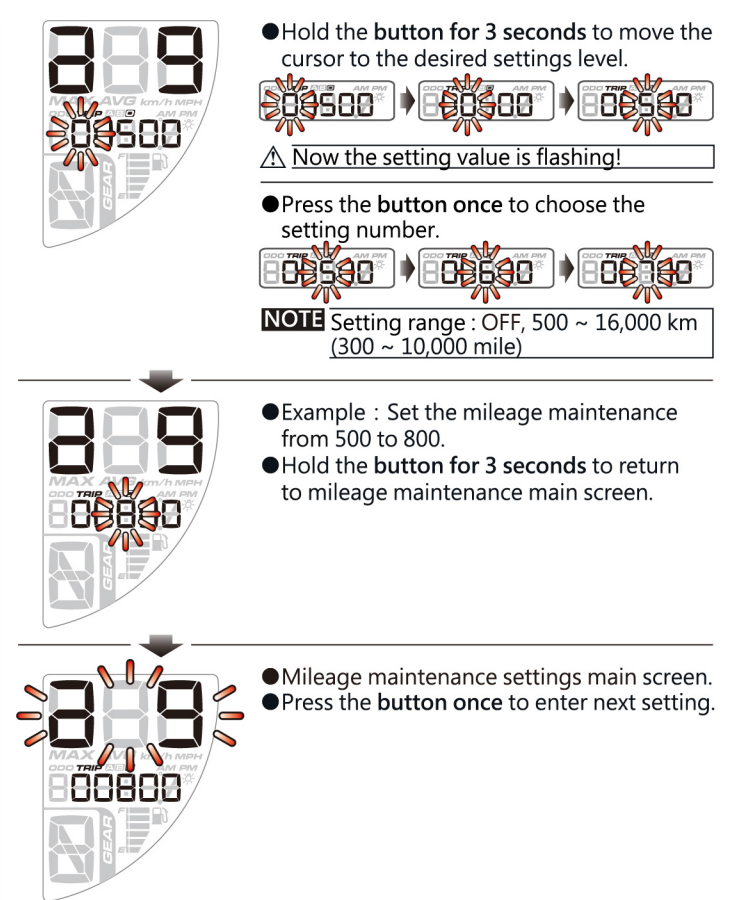
4-9 Mileage maintenance settings



- In mileage maintenance settings main screen, hold the **button** for 3 seconds to enter into the setting screen.

- EX : To set mileage maintenance to (ON).
- Press the **button** once to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE Setting range : ON - OFF

- Example : Set mileage maintenance from OFF to ON.
- Hold the **button** for 3 seconds to enter into the mileage maintenance main screen.
- NOTE When is set to OFF, will directly return to mileage maintenance main screen.

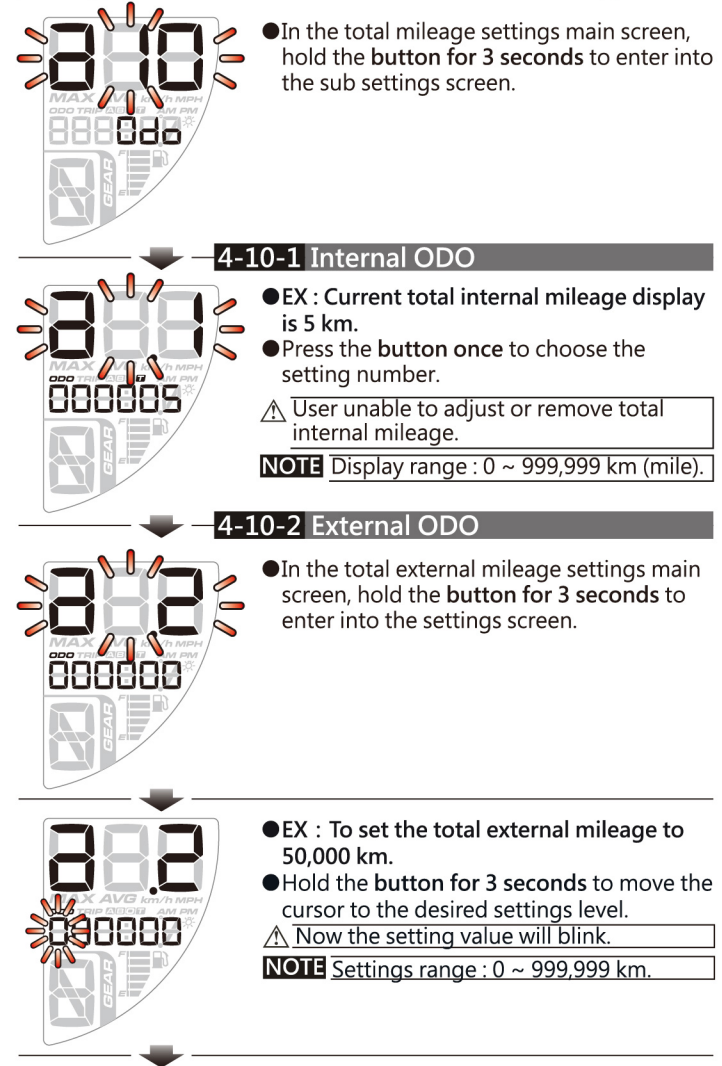


- Hold the **button** for 3 seconds to move the cursor to the desired settings level.
- ⚠ Now the setting value is flashing!
- Press the **button** once to choose the setting number.
- NOTE Setting range : OFF, 500 ~ 16,000 km (300 ~ 10,000 mile)

- Example : Set the mileage maintenance from 500 to 800.
- Hold the **button** for 3 seconds to return to mileage maintenance main screen.

- Mileage maintenance settings main screen.
- Press the **button** once to enter next setting.

4-10 Total internal and external mileage settings



- In the total mileage settings main screen, hold the **button** for 3 seconds to enter into the sub settings screen.

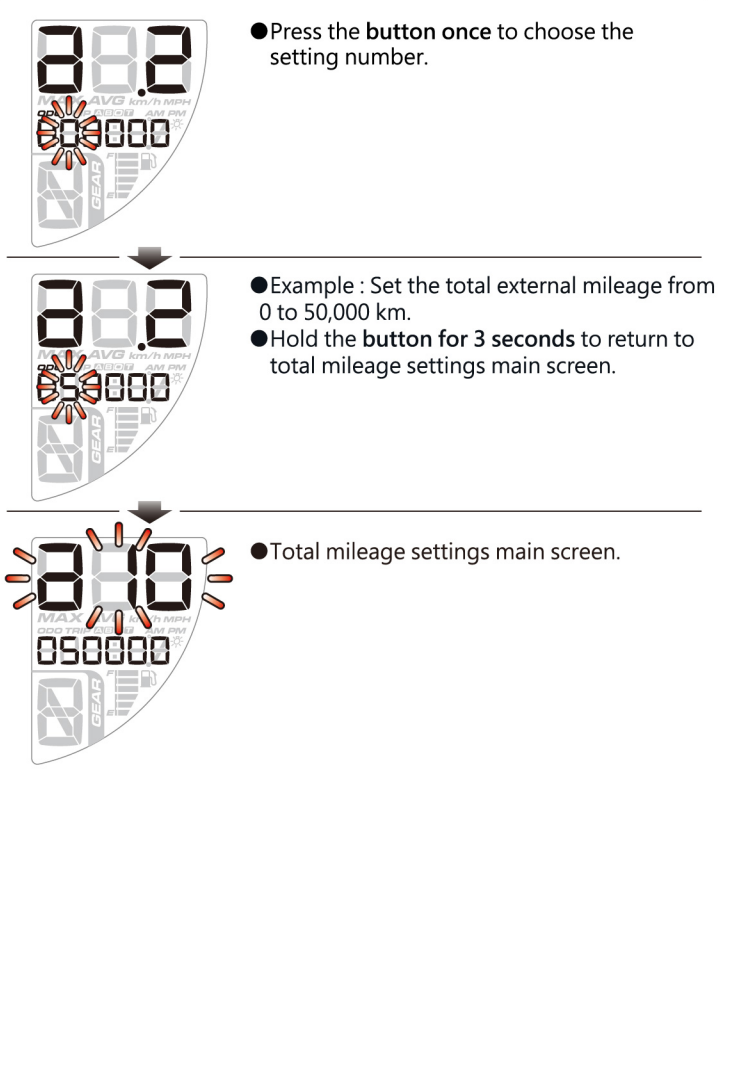
4-10-1 Internal ODO

- EX : Current total internal mileage display is 5 km.
- Press the **button** once to choose the setting number.
- ⚠ User unable to adjust or remove total internal mileage.
- NOTE Display range : 0 ~ 999,999 km (mile).

4-10-2 External ODO

- In the total external mileage settings main screen, hold the **button** for 3 seconds to enter into the settings screen.

- EX : To set the total external mileage to 50,000 km.
- Hold the **button** for 3 seconds to move the cursor to the desired settings level.
- ⚠ Now the setting value will blink.
- NOTE Settings range : 0 ~ 999,999 km.



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

- Example : Set the total external mileage from 0 to 50,000 km.
- Hold the **button** for 3 seconds to return to total mileage settings main screen.

- Total mileage settings main screen.

5 Trouble shooting

The following situations do not indicate malfunction of the meter. Check the following points before taking it in for repairs.

Trouble	Check item	Trouble	Check item
The meter doesn't work when the power is on.	<ul style="list-style-type: none"> ● The power doesn't supply to the meter. → Please 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). 	RPM meter does not display or display error.	<ul style="list-style-type: none"> ● Check the setting. → Please check the settings menu, the RPM of the settings are correct. ● Make sure the RPM wire is connected properly. → check the RPM wire wire is connected correctly.
The meter shows incorrect information or keep performing system reboot.	<ul style="list-style-type: none"> ● Check the voltage of your battery, and make sure the voltage is over DC 12 V. 	Fuel meter does not display or display error.	<ul style="list-style-type: none"> ● Check your fuel tank. ● Check the wiring harness. → Is the wire connected properly.
Speed meter does not display or display error.	<ul style="list-style-type: none"> ● Make sure the speed sensor is connected properly. → check the speed sensor wire is connected correctly. ● Check the setting. → Please check the settings menu, the speed of the settings are correct. 	Thermometer does not display or display error.	<ul style="list-style-type: none"> ● Make sure the temperature wire is connected properly. → check the temperature wire is connected correctly.
		The clock is incorrect.	<ul style="list-style-type: none"> ● Check the setting. → Please check the settings menu, the clock settings are correct.

※If the problems still can not be solve, please contact your local distributor to get assistance.