• Thank you for purchasing our product. This product is a multifunction meter and is easy to install. Before using, please read the instructions carefully and retain them for future reference.

⚠ Attention!

• For installation, please follow the steps described. Any damage caused by wrong installation shall be imputed to the users.
• To avoid a short circuit from occuring 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.
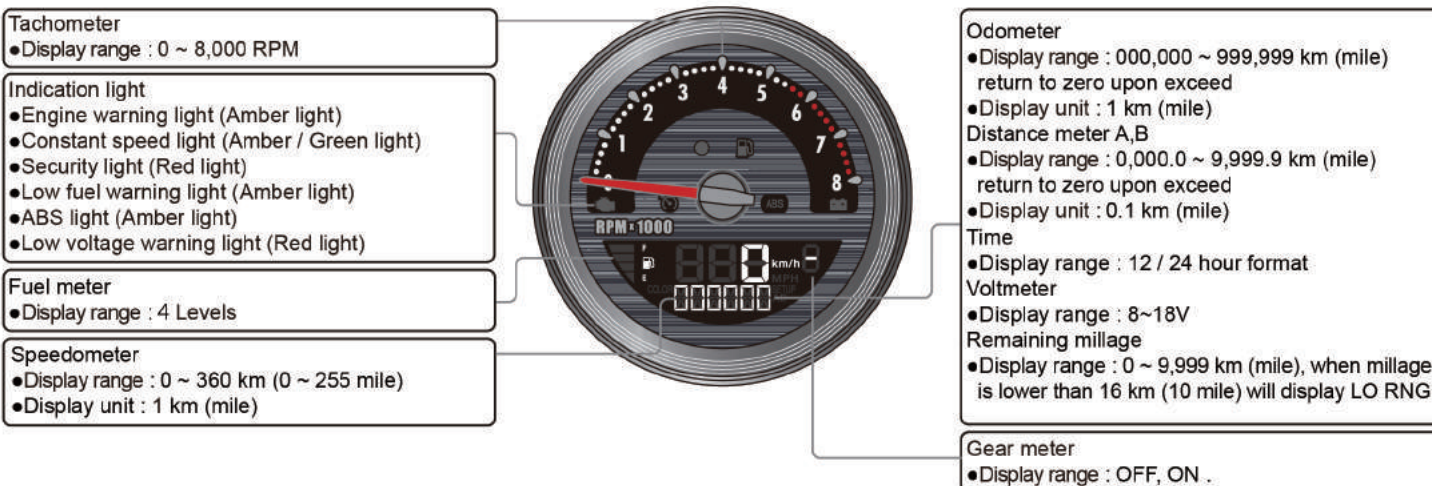⚠**WARNING!** Certain procedure must be followed to avoid damages to yourself, to the vehicle or others.

FLASH   LIGHT ON

1 Accessories

1	LCD Meter X1

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

2-1 Overview

Tachometer
●Display range : 0 ~ 8,000 RPM

Indication light
●Engine warning light (Amber light)
●Constant speed light (Amber / Green light)
●Security light (Red light)
●Low fuel warning light (Amber light)
●ABS light (Amber light)
●Low voltage warning light (Red light)

Fuel meter
●Display range : 4 Levels

Speedometer
●Display range : 0 ~ 360 km (0 ~ 255 mile)
●Display unit : 1 km (mile)

Odometer
●Display range : 000,000 ~ 999,999 km (mile) return to zero upon exceed
●Display unit : 1 km (mile)
Distance meter A,B
●Display range : 0,000.0 ~ 9,999.9 km (mile) return to zero upon exceed
●Display unit : 0.1 km (mile)
Time
●Display range : 12 / 24 hour format
Voltmeter
●Display range : 8~18V
Remaining millage
●Display range : 0 ~ 9,999 km (mile), when millage is lower than 16 km (10 mile) will display LO RNG

Gear meter
●Display range : OFF, ON .

2-2 Features and settings description

●Speedometer	Display range : 0 ~ 360 km (0 ~ 255 mile) switchable Display unit : 1 km (mile)	●Voltmeter	Display range : 8 ~ 18 V	
○Display interval	<0.5 second	●Backlight brigntness	Setting range : 1/5(darkest)~ 5/5(brightest)	
○Internal and external odometer	Display range : 000,000~999,999 km (mile) return to zero upon exceed Display unit : 1 km (mile)	○Backlight color	Setting range : 0~360	
		●Operating voltage	DC 12 V	
		●Operating temperature	-20~85 °C	
○Trip meter A,B	Display range : 0,000.0~9,999.9 km (mile) returns to zero upon exceed Display unit : 0.1 km (mile)	○Storage temperature	-30~90 °C	
		●Specifications	JIS D 0203 (S2)	
●Gear meter	Display range : OFF, ON .	●Meter Size	D 94.7 X 55.8 mm	
●Tachometer	Display range : 0 ~ 8,000 RPM	●Meter Weight	Around 165 grams	
●Fuel meter	Setting range : OFF, original fuel kit(PN 6120008A) , Sportster fuel switch, CUSt (User define)	●Indication light	Engine warning light (Amber light)	
○Fuel tank volume	Setting range : OFF/ 1.0 ~ 9.9 US gallons		Constant speed light (Amber / Green light)	
			Security light (Red light)	
●Clock	Setting range : 12 / 24 hour format		Low fuel warning light (Amber light)	
			ABS light (Amber light)	
			Low voltage warning light (Red light)	

NOTE Design and specification may change without further notice.

2-3 Main menu functions

- In the total millage screen, press the **button once** to switch to Trip A screen.
- In the total mileage screen, hold the **button for 3 seconds** to enter into the **setting screen**.(refer to setting 3)

- 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.

- In the clock screen, press the **button once** to switch to the voltage screen.

- In the voltage screen, press the **button once** to switch to the total mileage screen.

3 Settings and features index screen

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

3-1 Clock settings

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

- **Example : If want to set time to 12 hours format.**
- Press the **button once** to select desired setting value.
- ⚠ Now the setting value will blink.

- EX : Set time settings from 24 hours format to 12 hours format.
- Hold the **button for 3 seconds** to enter time into the (hour / minute) setting screen.

- **Example : To set clock as 1:05 AM.**
- Hold the **button for 3 seconds** to move the cursor to the desired settings level.

- ⚠ Now the setting value will blink.

- Press the **button once** to select desired setting value.

NOTE Setting range :
Hour : 1~12 (12 h) / 0~23 (24 h)
Minute : 00~59 minutes.

- EX：Set clock from 0:00 AM to 1:05 AM.
- Hold the **button for 3 seconds** to return to the clock settings main screen.

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

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

- **Example : To set speed unit to MPH(mile).**
- Press the **button once** to select the desired value.

⚠ Now the setting value will blink.

NOTE Setting range : km/h, km and MPH, mile.

NOTE Total mileage and distance meter unit will vary according to the speed unit.

- EX : Set speed unit from km/h, km to MPH, mile.
- Hold the **button for 3 seconds** to return to the speed unit settings main screen.

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

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

- In the backlight (mode) settings main screen, hold the **button for 3 seconds** to enter into the settings screen.

- **Example : To set the mode to Night mode.**
- Press the **button once** to select the desired value.

⚠ Now the setting value will blink.

NOTE Setting Auto(automatically switch according to the light : day mode display for the bright environment and Night mode display for the dark environment), Day mode, Night mode.

- EX : Set background from Auto mode to Night mode.
- Hold the **button for 3 seconds** to return the backlight (mode) settings main screen.

- Press the **button once** to enter the backlight brightness(day) settings main screen.

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

- **Example : To set the backlight brightness (day) to 4/5 (80%).**
- Press the **button once** to select the desired value.

⚠ Now the setting value will blink.

NOTE Setting range :
3/5~ 5/5 (Brightest),
3 different levels available.
Setting unit : 20% per level.

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

- EX : The backlight brightness (day) setting is changed from 5/5 (100%) to 4/5 (80%).
- Hold the **button for 3 seconds** to return the backlight brightness (day) settings main screen.

- Press the **button once** to enter the backlight (ALL : LCD+TAC+DIA) color (day) settings main screen.

- In the backlight (ALL : LCD+TAC+DIA) color (day) settings main screen, hold the **button for 3 seconds** to enter into the settings screen.

- **Example : To set backlight (ALL : LCD+ TAC+DIA) color (day) to 160.**

NOTE Setting mode : Manual adjustment ,Automatic adjustment.

Automatic

- Press the **button once** to enter the Automatic adjustment mode.

Manual

- Hold the **button for 3 seconds** to enter the Manual adjustment mode.
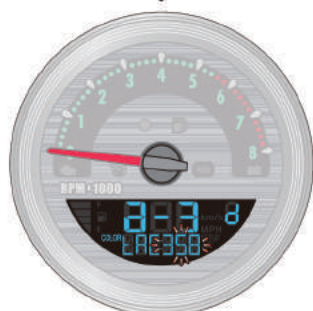
Automatic

- **The color will be displayed automatically.**
- Press the **button once** to choose the color .

NOTE Setting range : 0~359.

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

● EX : The backlight (ALL : LCD+TAC +DIA) color (day) setting is changed from 360 to 160.

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

 ➡ ➡

⚠ Now the setting value will blink.

● Press the **button once** to select desired setting value.

 ➡ ➡

NOTE Setting range : 0(Red)~360(White).
NOTE The backlight color will change immediately after you set the value.

● EX : The backlight (ALL : LCD+TAC+DIA) color (day) setting is changed from 360 to 160.
● Hold the **button for 3 seconds** to return the backlight (ALL : LCD+TAC+DIA) color (day) settings main screen.

● Press the **button once** to enter the backlight (LCD) color (day) settings main screen.

● In the backlight (LCD) color (day) settings main screen, hold the **button for 3 seconds** to enter into the settings screen.

● **Example : To set backlight (LCD) color (day) to 200.**
NOTE Setting mode : Manual adjustment ,Automatic adjustment.

● Press the **button once** to enter the Automatic adjustment mode.

● Hold the **button for 3 seconds** to enter the Manual adjustment mode.

● The color will be displayed automatically.
● Press the **button once** to choose the color .
NOTE Setting range : 0~359.
NOTE The backlight color will change immediately after you set the value.

● EX : The backlight (LCD) color (day) setting is changed from 160 to 200.

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

 ➡ ➡

⚠ Now the setting value will blink.

● Press the **button once** to select desired setting value.

 ➡ ➡

NOTE Setting range : 0(Red)~360(White).
NOTE The backlight color will change immediately after you set the value.

● EX : The backlight (LCD) color (day) setting is changed from 160 to 200.
● Hold the **button for 3 seconds** to return the backlight (LCD) color (day) settings main screen.

● Press the **button once** to enter the backlight (TAC) color (day) settings main screen.

- In the backlight (TAC) color (day) settings main screen, hold the **button for 3 seconds** to enter into the settings screen.

- **Example : To set backlight (TAC) color (day) to 358.**
  NOTE Setting mode : Manual adjustment ,Automatic adjustment.

  Automatic
  - Press the **button once** to enter the Automatic adjustment mode.

  Manual
  - Hold the **button for 3 seconds** to enter the Manual adjustment mode.

Automatic

- The color will be displayed automatically.
- Press the **button once** to choose the color .
  NOTE Setting range : 0~359.
  NOTE The backlight color will change immediately after you set the value.

- EX : The backlight (TAC) color (day) setting is changed from 160 to 358.

Manual

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

⚠ Now the setting value will blink.

- Press the **button once** to select desired setting value.

NOTE Setting range : 0(Red)~360(White).
NOTE The backlight color will change immediately after you set the value.

- EX : The backlight (TAC) color (day) setting is changed from 160 to 358.
- Hold the **button for 3 seconds** to return the backlight (TAC) color (day) settings main screen.

- Press the **button once** to enter the backlight (DIA) color (day) settings main screen.

- In the backlight (DIA) color (day) settings main screen, hold the **button for 3 seconds** to enter into the settings screen.

- **Example : To set backlight (DIA) color (day) to 250.**
  NOTE Setting mode : Manual adjustment ,Automatic adjustment.

  Automatic
  - Press the **button once** to enter the Automatic adjustment mode.

  Manual
  - Hold the **button for 3 seconds** to enter the Manual adjustment mode.

Automatic

- The color will be displayed automatically.
- Press the **button once** to choose the color .
  NOTE Setting range : 0~359.
  NOTE The backlight color will change immediately after you set the value.

- EX : The backlight (DIA) color (day) setting is changed from 160 to 250.

Manual

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

⚠ Now the setting value will blink.

- Press the **button once** to select desired setting value.

NOTE Setting range : 0(Red)~360(White).

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

- EX : The backlight (DIA) color (day) setting is changed from 160 to 358.
- Hold the **button for 3 seconds** to return the backlight (DIA) color (day) settings main screen.

- Press the **button once** to enter the backlight brightness(night) settings main screen.

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

- **Example : To set the backlight brightness (night) to 2/5 (40%).**
- Press the **button once** to select the desired value.

⚠ Now the setting value will blink.

NOTE Setting range :
1/5(Darkest)~ 5/5 (Brightest),
5 different levels available.
Setting unit : 20% per level.

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

- EX : The backlight brightness (night) setting is changed from 3/5 (60%) to 2/5 (40%).
- Hold the **button for 3 seconds** to return the backlight brightness (night) settings main screen.

- Press the **button once** to enter the backlight (ALL : LCD+TAC+DIA) color (night) settings main screen.

- In the backlight (ALL : LCD+TAC+DIA) color (night) settings main screen, hold the **button for 3 seconds** to enter into the settings screen.

- **Example : To set backlight (ALL : LCD+ TAC+DIA) color (night) to 160.**

NOTE Setting mode : Manual adjustment ,Automatic adjustment.

Automatic

- Press the **button once** to enter the Automatic adjustment mode.

Manual

- Hold the **button for 3 seconds** to enter the Manual adjustment mode.

Automatic

- **The color will be displayed automatically.**
- Press the **button once** to choose the color .

NOTE Setting range : 0~359.

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

- EX : The backlight (ALL : LCD+TAC +DIA) color (night) setting is changed from 360 to 160.

Manual

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

⚠ Now the setting value will blink.

- Press the **button once** to select desired setting value.

NOTE Setting range : 0(Red)~360(White).

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

- EX : The backlight (ALL : LCD+TAC+DIA) color (night) setting is changed from 360 to 160.
- Hold the **button for 3 seconds** to return the backlight (ALL : LCD+TAC+DIA) color (night) settings main screen.

- Press the **button once** to enter the backlight (LCD) color (night) settings main screen.

- In the backlight (LCD) color (night) settings main screen, hold the **button for 3 seconds** to enter into the settings screen.

- **Example : To set backlight (LCD) color (night) to 200.**

  NOTE Setting mode : Manual adjustment ,Automatic adjustment.

Automatic

- Press the **button once** to enter the Automatic adjustment mode.

Manual

- Hold the **button for 3 seconds** to enter the Manual adjustment mode.

Automatic

- **The color will be displayed automatically.**
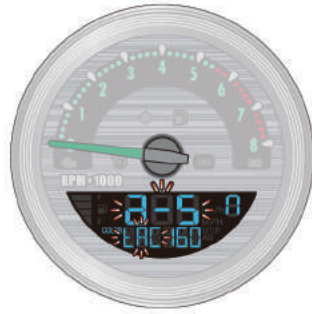- Press the **button once** to choose the color .

  NOTE Setting range : 0~359.

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

- EX : The backlight (LCD) color (night) setting is changed from 160 to 200.

Manual

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

⚠ Now the setting value will blink.

- Press the **button once** to select desired setting value.

  NOTE Setting range : 0(Red)~360(White).

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

- EX : The backlight (LCD) color (night) setting is changed from 160 to 200.
- Hold the **button for 3 seconds** to return the backlight (LCD) color (night) settings main screen.

- Press the **button once** to enter the backlight (TAC) color (night) settings main screen.

- In the backlight (TAC) color (night) settings main screen, hold the **button for 3 seconds** to enter into the settings screen.

- **Example : To set backlight (TAC) color (night) to 358.**

  NOTE Setting mode : Manual adjustment ,Automatic adjustment.

Automatic

- Press the **button once** to enter the Automatic adjustment mode.

Manual

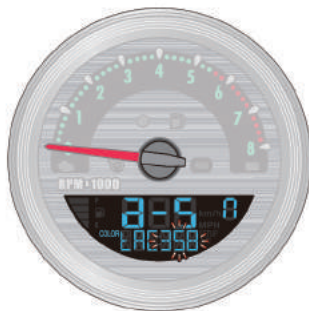- Hold the **button for 3 seconds** to enter the Manual adjustment mode.

- The color will be displayed automatically.
- Press the **button once** to choose the color .

NOTE Setting range : 0~359.

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

- EX : The backlight (TAC) color (night) setting is changed from 160 to 358.

Manual

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

⚠ Now the setting value will blink.

- Press the **button once** to select desired setting value.

NOTE Setting range : 0(Red)~360(White).

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

- EX : The backlight (TAC) color (night) setting is changed from 160 to 358.
- Hold the **button for 3 seconds** to return the backlight (TAC) color (night) settings main screen.

- Press the **button once** to enter the backlight (DIA) color (night) settings main screen.

- In the backlight (DIA) color (night) settings main screen, hold the **button for 3 seconds** to enter into the settings screen.

- **Example : To set backlight (DIA) color (night) to 250.**

NOTE Setting mode : Manual adjustment ,Automatic adjustment.

Automatic

- Press the **button once** to enter the Automatic adjustment mode.

Manual

- Hold the **button for 3 seconds** to enter the Manual adjustment mode.

Automatic

- The color will be displayed automatically.
- Press the **button once** to choose the color .

NOTE Setting range : 0~359.

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

- EX : The backlight (DIA) color (night) setting is changed from 160 to 250.

Manual

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

⚠ Now the setting value will blink.

- Press the **button once** to select desired setting value.

NOTE Setting range : 0(Red)~360(White).

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

- EX : The backlight (DIA) color (night) setting is changed from 160 to 250.
- Hold the **button for 3 seconds** to return the backlight (DIA) color (night) settings main screen.

- Press the **button once** to return to the backlight (mode /color / brightness) settings main screen.

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

3-4 Gear display settings

- In the gear display settings screen, hold the **button for 3** seconds to enter into the settings screen.

- Press the **button once**, and select whether to turn on the gear display function.
- ⚠ Now the setting value is flashing!
- **NOTE** Setting range : ON, OFF.

- Hold the **button for 3 seconds** to return to the gear display settings main screen.

- Gear display settings main screen.
- Press the **button once** to enter next setting.

3-5 Fuel settings

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

3-5-1

- In the fuel type screen, hold the **button for 3 seconds** to enter into the fuel type settings screen.

- EX : To set the fuel type to CUSt (user define).
- Press the **button once** to select the desired value.
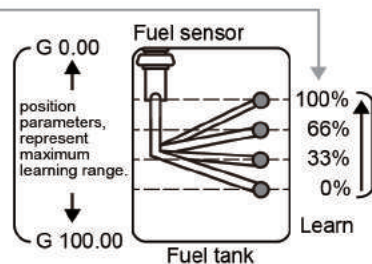- ⚠ Now the setting value will blink.
- **NOTE** Settings range:
  1. OFF (Fuel display. off)
  2. SPo SW(Sporster fuel volume switch)
  3. F-KIT (Fuel Kit PN.6120008A)
  4. CUSt (User define)

- Example : To set fuel type from OFF to CUSt (user define).
- Hold the **button for 3 seconds** to enter into the user define mode.

- User define mode
  Needs to learn the position of 0% (E), 33%, 66%, 100% (F) fuel volume.

- Fuel volume 0% position learning screen.
- confirm that there it is low fuel before learning.
- Allow the vehicle to be still for 10 ~ 15 seconds in order to steady the liquid surface.
- Press the **button once** to learn the current fuel position.
- Hold the **button for 3 seconds** to enter into the next fuel volume position learning screen.

- Fuel volume 33% position learning screen.
- confirm that there is 1/3 fuel volume in fuel tank before learning.
- Allow the vehicle to be still for 10 ~ 15 seconds in order to steady the liquid surface.
- Press the **button once** to learn current fuel position.
- Hold the **button for 3 seconds** to enter into the next fuel volume position learning screen.

- Fuel volume 66% position learning screen.
- confirm that there is 2/3 fuel volume in fuel tank before learning.
- Allow the vehicle to be still for 10 ~ 15 seconds in order to steady the liquid surface.
- Press the **button once** to learn current fuel position.
- Hold the **button for 3 seconds** to enter into the next fuel volume position learning screen.

- Fuel volume 100% position learning screen.
- confirm that there is 3/3 fuel volume in fuel tank before learning.
- Allow the vehicle to be still for 10 ~ 15 seconds in order to steady the liquid surface.
- Press the **button once** to learn current fuel position.
- Hold the **button for 3 seconds** to enter into the learning conformation screen.

- Learning conformation screen.
- Hold the button once to save the current learning results, then automatic return to fuel type settings screen.

  SAUE ➜ DONE

- If an error occurs in the learning process, it will display "Error" when saving. Then abandon this learning and return to fuel type screen.

  SAUE ➜ ErrorD

- Hold the **button for 3 seconds** to renounce current learning result and return to the sub settings screen.
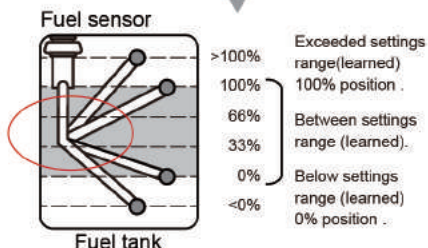
  SAUE ➜ Abort

- In the Fuel type settings screen.
- Press the **button once** to enter the next setting.

  NOTE Setting range:
  - When set to OFF or SPo SU, will return to fuel type settings screen.
  - When set to other settings, will enter next setting option.

3-5-2

- Fuel position indicator.
  surface position, if it exceeds the range it is recommended to reset the fuel volume parameters to acquire more precise fuel volume and range information.

  Fuel sensor

>100%	Exceeded settings range(learned) 100% position .
100%	
66%	Between settings range (learned).
33%	
0%	Below settings range (learned) 0% position .
<0%	

  Fuel tank

- Press the button to enter fuel volume settings.

3-5-3

- In fuel tank volume settings screen, hold the **button for 3 seconds** to enter into the settings screen.

- **Example**：**To set fuel volume as ON.**
- Press the **button once** to select desired setting value.

  ⚠ Currently setting value will blink.

  NOTE Setting range：ON,OFF.

- EX：To set the fuel tank volume to ON.
- Hold the **button for 3 seconds** to enter the fuel volume settings screen.

  NOTE When set to OFF, will return to sub setting screen.

- **Example**：**To set fuel volume to 4.7.**
- Hold the **button for 3 seconds** to move the cursor to desired setting level.

  GAL 44 ➜ GAL 45

  ⚠ Now the setting value will blink.

- Press the **button once** to select desired setting value.

  GAL 45 ➜ GAL 46 ➜ GAL 47

  NOTE Setting range：1.0 ~ 9.9 gallons

  NOTE Volume calculation method checks for the total volume of the fuel tank and low fuel indicating volume in the user manual of vehicle, then substitutes it into the equation below：
  total vol. - (low fuel vol. / 2) = setting value.
  Then enter the result into the setting value.

- EX：Set fuel volume value from 4.5 to 4.8.
- Hold the **button for 3 seconds** to return to fuel volume settings screen.

- Press the **button once** to return to the fuel settings main screen.

- Fuel settings main screen。
- Press the **button once** to enter next setting.

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

3-6-1

- **Example : Current total internal mileage display is 5 km.**
- Press the **button once** to enter into the total external mileage settings screen.

⚠ User unable to adjust or remove total internal mileage.

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

3-6-2

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

- **Example : To set external total distance value 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.

- Press the **button once** to select desired setting value.

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

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

- Total external mileage settings main screen.
- Press the **button once** to return to total mileage settings main screen.

- Total mileage settings main screen.
- Press the **button once** to return to startup screen.

4 Trouble Shooting

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

Trouble	Check item
The meter doesn't work when the power is on.	• 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 broken or the battery is too old to supply enough power DC 12V to make the meter work.

※ If the problems persist after viewing the steps above, please contact your local distributors.