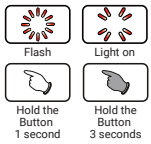
INSTALLATION

Thank you for purchasing our product. Before installing/operating the product, 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 dissassembling this unit will void any warranty.
- Maintenance and repairs should be executed by our professionals only.



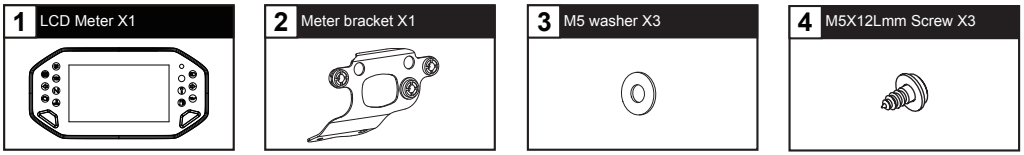
Symbol description:

NOTE

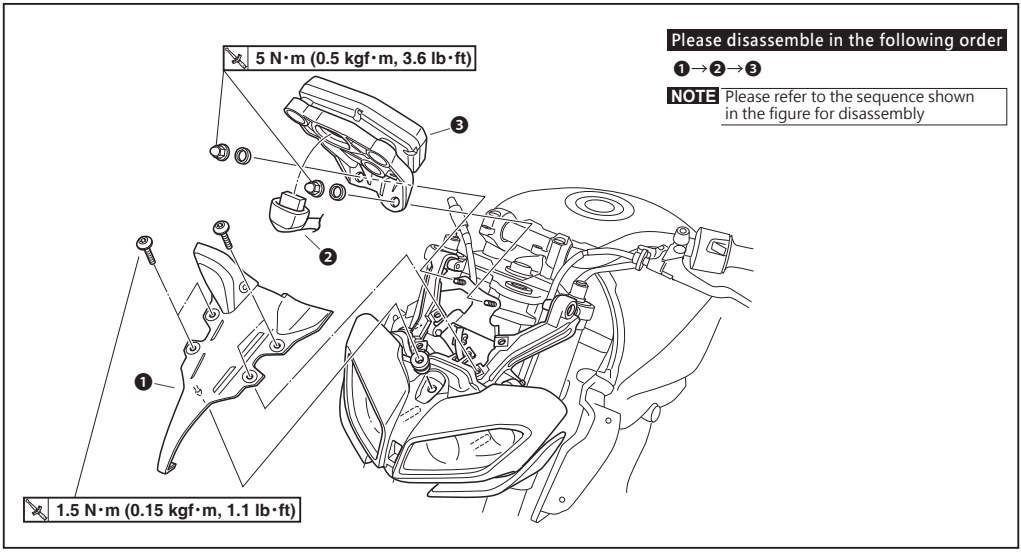
⚠ Some procedures must be followed to avoid damages to the instrument.

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

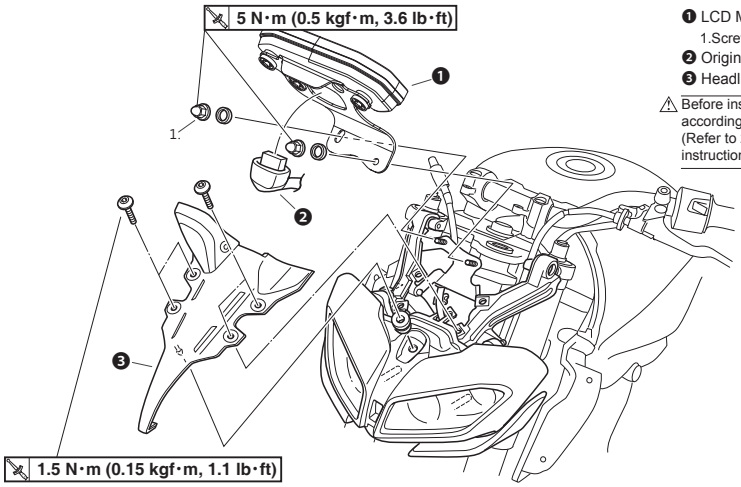
1-1 Accessories



2-1 Vehicle installation instruction(1)



2-2 Vehicle installation instruction(2)

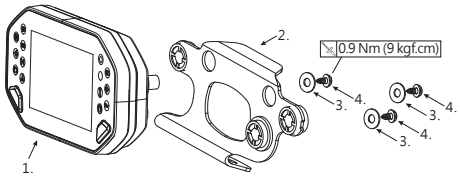


Please install in the following order

❶ LCD Meter (With Bracket)
1.Screw X2(OEM screws)
❷ Original Meter wire
❸ Headlight unit cover

⚠ Before installing, please assemble according to the drawing. (Refer to 2-3 installation instructions for fixing the meter to the bracket).

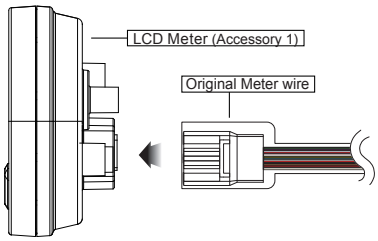
2-3 Bracket Installation instructions



Follow the steps below during installation.

1. LCD Meter (Accessory 1)
2. Meter bracket (Accessory 2)
3. M5 washer X3 (Accessory 3)
4. M5 screw X3 (Accessory 4) 0.9 Nm (9 kgf.cm)

2-4 Wiring Installation Instructions

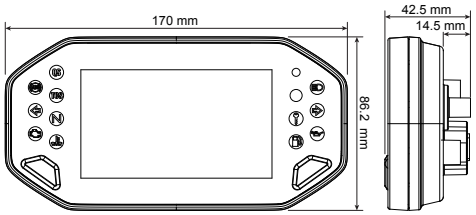


3-1 Corresponding No. of the Vehicle

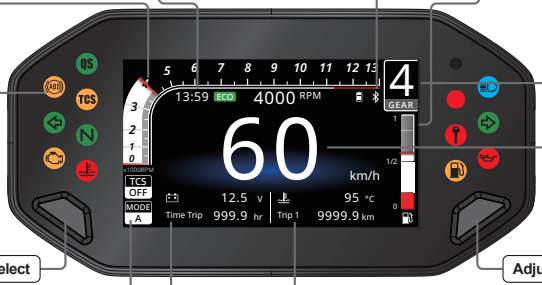
Model	Meter part No.
MT-09	BS2-83500-00
	BS2-83500-10
	BS2-83500-20
	BS2-83500-30

NOTE The “meter part No.” may be found on the original part manual.

3-2 Meter Size



3-3 Basic Function Instructions



Tachometer
- Display range : MT-09 : 0 ~ 13,000 RPM

Clock
- Display range : 00:00 ~ 23:59 (24H), 1:00 ~ 12:59 (12H)

ECO Indicator
- Display range : display,No display

Phone battery
- Display range : 3 segments.

Bluetooth® connection status
- Display range : Steady(connected), OFF(Unconnected)

Fuel meter
- Display range : 6 levels

Fuel warning
- Display unit : 1 level (16.6 %)
- Display range : The warning value for low fuel shall be 1 segment and below, the warning signal will blink.

Indicator
- ABS light (Amber)
- Left indicator light(Green)
- Engine light (Amber)
- QS Quick switch signal (Green)
- TCS Traction control signal (Amber)
- Neutral light (Green)
- Coolant temperature warning light(Red)
- RPM shift light (Red)
- IMMO anti-theft light(Red)
- Low fuel warning light (Amber)
- High beam light (Blue)
- Right indicator light(Green)
- Motor oil light (Red)

Gear Meter
- Display range : - , N, 1 ~ 6

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

TCS display
- Display range : 1, 2, OFF

Driving mode
- Display range : STD, A, B

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

Time Trip
- Display range : 0 ~ 999.9 H
- Display unit : 0.1 hr

Time 1, 2
- Display range : 0 ~ 999.9 H
- Display unit : 0.1 hr

Coolant temperature warning
- Display range : 0 ~ 250 ℃ (32 ~ 482 ℉)
- Display unit : 1 ℃ (℉)

Trip meter 1, 2
- Display range : 0.0~9,999.9 km (mile), may return to zero manually
- Setting unit : 0.1 km (mile)

Current fuel consumption
- Display range : 0 ~ 40.0 km/L, 2.5 ~ 99.9 L/100km, 0 ~ 99.9 MPG(US), 0 ~ 99.9 MPG(UK)
- Display unit : 0.1 km/L, 0.1 L/100km, 0.1 MPG(US), 0.1 MPG(UK)

Average fuel consumption
- Display range : 0 ~ 40.0 km/L, 2.5 ~ 99.9 L/100km, 0 ~ 99.9 MPG(US), 0 ~ 99.9 MPG(UK)
- Setting unit : 0.1 km/L, 0.1 L/100km, 0.1 MPG(US), 0.1 MPG(UK)

3-5 Vehicle Series Function Comparison Table

Model	Original meter part No.	Indicator function			Default value				
		TCS	ABS	QS	Speed unit	Temperature unit	Fuel consumption unit	Shift light warning (Steady)	Shift light warning (Flash)
MT-09	BS2-83500-00	V	V	V	km/h	℃	km/L	9250	11250
	BS2-83500-10	V	V	V	mph	℉	MPG(UK)	9250	11250
	BS2-83500-20	V	V	V	mph	℉	MPG(US)	9250	11250
	BS2-83500-30	V	V	V	km/h	℃	km/L	9250	11250

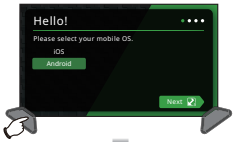
3-4 Specifications

●Speedometer	Display range : 0 ~ 360 km/h (0 ~ 225 MPH) Display unit : 1 km/h (MPH) Switchable
●Odometer	Display range : 0 ~ 999,999 km (mile) Display unit : 1 km (mile)
●Trip meter 1, 2	Display range : 0.0~9,999.9 km (mile) , may return to zero manually. Setting unit : 0.1 km (mile)
●Low fuel mileage	Display range : 0 ~ 999 km (mile) Display unit : 1 km (mile)
●Motor oil maintenance	Setting range : User settings(500 ~ 16,000 km/ 300 ~ 10,000 mile) ~ -999 km (mile) · Automatically decrease. Display unit : 1 km (mile) Warning range : Texts will turn red as a warning for 0 km (mile) and below.
○Maintenance mileage 1, 2	Setting range : User settings(500 ~ 16,000 km/ 300 ~ 10,000 mile) ~ -999 km (mile) · Automatically decrease. Display unit : 1 km (mile) Warning range : Text will turn red as a warning for 0 km (mile) and below.
●Max. speed record	Display range : 0 ~ 360 km/h (0 ~ 225 MPH)
●Gear Meter	Display range : - , N, 1 ~ 6
○Max. gear record	Display range : - , N, 1 ~ 6
●Tachometer	Display range : 0 ~ 13,000 RPM
○Shift light warning	Display range : Steady, Flash and Segment flashing warning Setting range : 1,000 ~ 13,000 RPM Setting unit : 500 RPM (Small grid) 1,000 RPM (Large grid)
○Max. RPM speed	Display range: 0 ~ 13,000 RPM
●Air temperature	Display range : -10 ~ 100 ℃ (14 ~ 212 ℉) Display unit : 1 ℃ (℉) Warning range : LO means below -10 °C (14 °F); HI means higher than 100 °C (212 °F); the numbers will turn red and blink for warning.
○Coolant temperature	Display range : 0 ~ 250 ℃ (32 ~ 482 ℉) Display unit : 1 ℃ (℉)
○Max. coolant temperature record	Display range : 0 ~ 250 ℃ (32 ~ 482 ℉)
○Coolant temperature warning	Display range : LO means below 39 °C (102 °F); HI means higher than 117 °C (234 °F); the numbers will turn red and blink for warning. Unit: Celsius (°C) or Fahrenheit (°F)
●Fuel meter	Display range : 6 segments Display unit : 1 segment (16.6 %)
○Fuel warning setting	Display range : The warning value for low fuel shall be 1 segment and below, the symbol will blink for warning.
○Current fuel consumption	Display range : 0 ~ 40.0 km/L, 2.5 ~ 99.9 L/100km, 0 ~ 99.9 MPG(US), 0 ~ 99.9 MPG(UK) Display unit : 0.1 km/L, 0.1 L/100km, 0.1 MPG(US), 0.1 MPG(UK)
○Average fuel consumption	Display range : 0 ~ 40.0 km/L, 2.5 ~ 99.9 L/100km, 0 ~ 99.9 MPG(US), 0 ~ 99.9 MPG(UK) Display unit : 0.1 km/L, 0.1 L/100km, 0.1 MPG(US), 0.1 MPG(UK)
●Clock	Setting range : 00:00 ~ 23:59 (24H), 1:00 ~ 12:59 (12H)
○Time Trip	Display range : 0 ~ 999.9hr Display unit : 0.1 hr
○Time 1,2 (cumulative time)	Display range : 0 ~ 999.9hr Display unit : 0.1 hr
●Voltmeter	Display range : DC 8.0 ~ 18.0 V Display unit : DC 0.1 V
○Low voltage warning	Setting range : DC 8.0~13.0 V, LO means the setting value and below; the numbers will turn red and blink as a warning. Setting unit : DC 0.1 V
○High voltage warning	Setting range : DC 13.1~18.0 V, HI means the setting value or above; the numbers will turn red and blink as a warning. Setting unit : DC 0.1 V

●Target speed	Setting range : 0 ~ 360 km/h (0 ~ 225 MPH)
●Target distance	Setting range : 50 ~ 1,500 m (1/32 ~ 30/32 mile)
●Top speed	Display range Speed : 0 ~ 360 km/h (0 ~ 225 MPH) Distance : 0 ~ 999 m (0~3,280 feet) RPM speed : 0 ~ The setting value of the rpm at top speed Time : 0 ~9 : 59"99
●Bluetooth® connection status	Operating system iOS : iOS 5.0 and above Android : Android 9 and above
●Phone battery	Display range: 3 segments
●Incoming phone call notice	Display range: Display name or number for up to 12 letters; "…" is displayed for more than 12 letters; "Unknown" is displayed when there is no name iOS - Display either name or number of the incoming call Android - Display number only
●Incoming online app call notice	Display range: Display name for up to 12 letters; "…" is displayed for more than 12 letters; "Unknown" is displayed when there is no name App supported: LINE, WeChat, WhatsApp iOS supported, Android not supported.
●Music playing message	Song name : 15 letters, and "…" is displayed when > 15 letters Artist name : 18 letters, and "…" is displayed when > 18 letters Total length of the music : 00:00 ~ 9:59:59 (iOS supported, Android not supported). Current playing time : 00:00 ~ 9:59:59 (iOS supported, Android not supported).
●Push notification	Display range: Name - 4 letters, "…" is displayed when > 4 letters Content -17 letters, "…" is displayed when > 17 letters Support iOS, not Android.
●Driving mode	Display range: STD、A、B
●TCS display	Display range: 1, 2, OFF
●ECO Indicator	Display range: display, No display
●Background display	Setting range : Auto(automatically switch according to the light : day mode display for a bright environment and Night mode display for a dark environment), Day mode, Night mode.
○Back light brightness (Day)	Setting range : 1/5(Darkest)~ 5/5(Brightest) Setting unit : 1/5
○Back light brightness (Night)	Setting range : 1/5(Darkest) ~ 5/5(Brightest),need ≦ the setting value of backlight brightness (Day). Setting unit : 1/5
○Back light color	Setting range : blue, green, orange, white
●Unit	Speed unit : km/h , MPH Temperature unit : ˚C (Celsius) and ˚F (Fahrenheit) Fuel consumption unit : km/L, L/100km, MPG(US), MPG(UK).
●Voltage	DC 12 V
●Operating temperature	-20~ 85 °C
○Storage temperature	-30~ 90 °C
●Specification	JIS D 0203 (S2)
●Meter Size	170 x 86.2 x 42.5 mm
●Meter Weight	Around 244.0 g
●Indicator	ABS light (Amber) Left indicator light(Green) Check engine light (Amber) QS Quick switch signal (Green) TCS Traction control signal (Amber) Neutral light (Green) Coolant temperature warning light(Red) RPM shift light (Red) IMMO anti-theft light(Red) Low fuel warning light (Amber) High beam light (Blue) Right indicator light(Green) Motor oil maintenance light (Red)

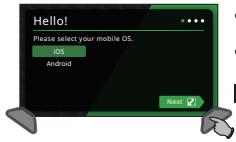
NOTE Design and specifications are subject to change without notice!

4-1 Start screen for Initial Use



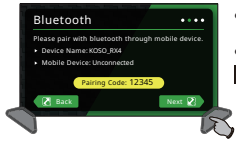
●Start screen for Initial Use, press the **Adjust or Select button** to choose mobile operating system.

NOTE Press the left button for explanation in the graphics.



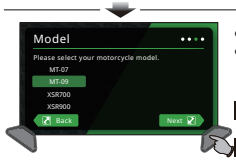
●Press the **Adjust button for 3 seconds**, enter the Bluetooth® pairing screen.
●EX : Select iOS for mobile phone operating system

NOTE **iOS operating system:**
iOS 5.0 and above
Android operating system:
Android 9 and above



●Press the **Adjust button for 3 seconds**, enter the vehicle type screen.
●EX : Bluetooth® pairing screen completed.

NOTE **iOS operating system:**
Need to enter the pairing code.
Android operating system:
No pairing code is required.
Enter vehicle type selection directly.



●EX : Select MT-09 for the vehicle type.
●Press the **Adjust button for 3 seconds**, enter the Corresponding No. screen of the Vehicle.

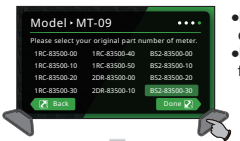
NOTE Refer to 3-1 Corresponding No. of the Vehicle.

NOTE The screen is only for Yamaha MT-09.

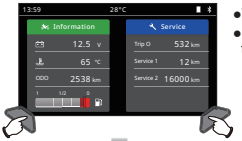


●**Press the Adjust or Select button** to choose the setting number.
●EX : To set Corresponding No. of the Vehicle to BS2-83500-30.

NOTE The screen is only for the model of BS-835000-00/10/20/30.



●Press the **Adjust button for 3 seconds**, enter the Vehicle condition screen.
●EX : Set Corresponding No. of the Vehicle from BS2-83500-00 to BS2-83500-30 .



●Vehicle condition screen.
●**Press the Adjust + Select buttons,** to enter the main screen.

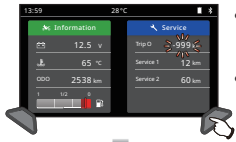


●The main screen.

4-2 Switching Instruction for Vehicle Condition Screen

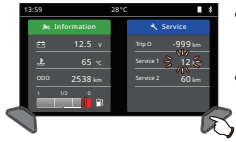


●In the Vehicle condition screen, press the **Adjust button**,to enter the Trip O screen (Flash).



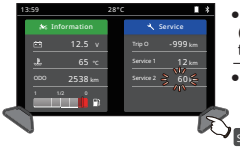
●In the Trip O screen (Flash), press the **Adjust button** to enter the Maintenance mileage 1 screen (Flash).
●Press the **Adjust button for 3 seconds** to reset Trip O screen.

Trip O -999 km ➡ Trip O 500 km



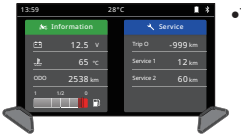
●In the Maintenance mileage 1 screen (Flash), press the **Adjust button** to enter the Maintenance mileage 2 screen (Flash).
●Press the **Adjust button for 3 seconds** to reset Maintenance mileage 1 screen (Flash).

Service 1 12 km ➡ Service 1 500 km



●In the Maintenance mileage 2 screen (Flash), press the **Adjust button** to enter the Vehicle condition screen.
●Press the **Adjust button for 3 seconds** to reset Maintenance mileage 2 screen (Flash).

Service 1 12 km ➡ Service 1 500 km



●The Vehicle condition screen.

4-3 Main Menu Switching Description(Adjust button)



●In the Trip 1 screen, press the **Adjust button** to enter the Trip 2 screen.

●Press the **Adjust button for 3 seconds** to reset Trip 1 record.

Trip 1 1688.9 km → Trip 1 0 km



●In the Trip 2 screen, press the **Adjust button** to enter the Current fuel consumption screen.

●Press the **Adjust button for 3 seconds** to reset Trip 2 record.

Trip 2 3055.5 km → Trip 2 0 km



●In the Current fuel consumption screen, press the **Adjust button** to enter the Average fuel consumption screen.



●In the Average fuel consumption screen, press the **Adjust button** to enter the Low fuel mileage screen.

●Press the **Adjust button for 3 seconds** to reset Average fuel consumption record.

AVE CONS 45.5 km/L → AVE CONS 0 km/L



●In the Low fuel mileage screen, press the **Adjust button** to enter the Max. record screen.

●Press the **Adjust button for 3 seconds** to reset Low fuel mileage record.

36 km → 0 km

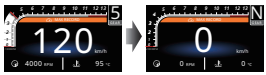
NOTE A low fuel distance table is displayed when reaching the warning value for the original fuel gauge.

NOTE Automatically return to zero without display when filling up the tank and riding for 5km (3mile).



●In the Max. record screen, press the **Adjust button** to go back to the Trip 1 screen.

●Press the **Adjust button for 3 seconds** to reset Max. record.





●In the Trip 1 sereen.

4-4 Main Menu Switching Description(Select button)



●In the Time Trip screen, press the **Select button** to enter the Time 1 screen.



●In the Time 1 screen, press the **Select button** to enter the Time 2 screen.

●Press the **Select button for 3 seconds** to reset Time 1 record.

Time 1 15.1 hr → Time 1 0 hr



●In the Time 2 screen, press the **Select button** to go back to the Time Trip screen.

●Press the **Select button for 3 seconds** to reset Time 2 record.

Time 2 18.3 hr → Time 2 0 hr

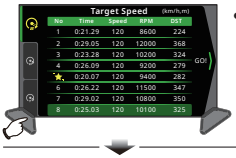


●In the Time Trip screen.

4-5 Record Screen Switching Description(Target Speed, Target Distance, Top Speed)



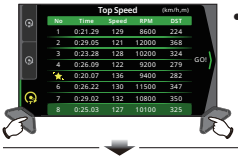
●In the main screen, press the **Select + Adjust buttons** to enter the target speed record screen.



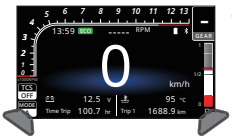
●In the target speed record screen, press the **Select button** to enter the target distance record screen.



●In the target distance record screen, press the **Select button** to enter the top speed record screen.

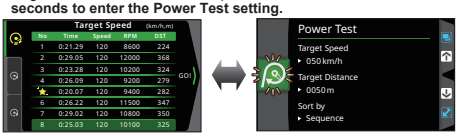


●In the top speed record screen, press the **Select + Adjust buttons** to go back to the main screen.

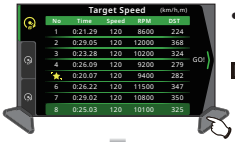


●In the main screen.

●Regardless of the record screen, press the **Select button for 3 seconds to enter the Power Test setting.**

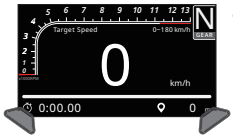


4-5-1 Description Of Target Speed Test



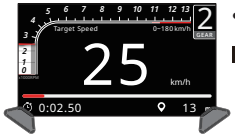
●In the target speed record screen, press the **Adjust button** to enter the testing screen.

NOTE Start the test when the bike is fully stopped.



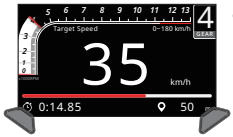
●In the testing screen.

⚠WARNING! Use this function on racetracks to avoid accidents.

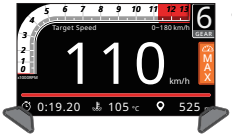


●When the bike moves, the timer will start automatically.

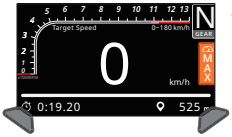
NOTE The timer is automatic, so when your bike starts to move the timer will start to calculate the time and stop automatically when you stop the bike.



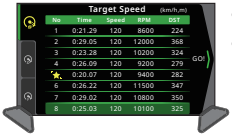
●Speed up.



●When you reach the target speed that you set (0~110 km/h), the timer will stop (19"20 second).



●When speed decreases to 0 km/h (MPH), the target speed record screen will apear.



●In the target speed record screen.

●Press the **Adjust button for 3 seconds**, to reset the target speed record.



●Press the **Adjust button** to confirm deletion.
●Press the **Select button** to cancel deletion.

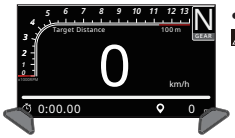
●Successfully deleted.
●The alert dialog will disappear after 3 seconds.

4-5-2 Description Of Target Distance Test



●In the target distance record screen, press the **Adjust button** to enter the testing screen.

NOTE Start the test when the bike is fully stopped.



●In the testing screen.

⚠WARNING! Use this function on racetracks to avoid accidents.

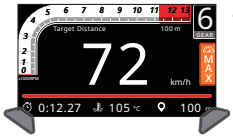


●When the bike moves, the timer will start automatically.

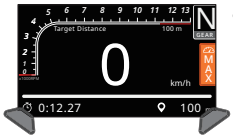
NOTE The product adopts digital sensing; when the vehicle starts, the timer will immediately start measuring. Upon achieving the target distance, the timer will immediately stop measuring.



●Speed up.



●When you reach the target distance that you set (100 M . 2/32 mile), the timer will stop (12"27 second).



●When speed decreases to 0 km/h (MPH), the target distance record screen will apear.



●In the target distance record screen.

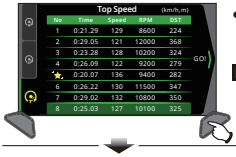
●Press the **Adjust button for 3 seconds**, to reset the target distance record.



●Press the **Adjust button** to confirm deletion.
●Press the **Select button** to cancel deletion.

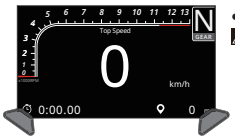
●Successfully deleted.
●The alert dialog would disappear after displaying for 3 seconds.

4-5-3 Description Of Top Speed Test



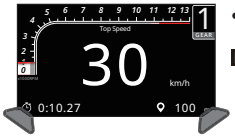
●In the top speed record screen, press the **Adjust button** to enter the testing screen.

NOTE Start the test when the bike is fully stopped.



●In the testing screen.

⚠WARNING! Use this function on racetracks to avoid accidents.

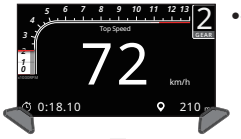


●When the bike moves, the timer will start automatically.

NOTE **Display range(Top speed)** :
Speed : 0 ~ 360 km/h (0 ~ 225 MPH)
Distance : 0 ~ 999 m (0~3,280 feet)
Rotating speed : 0 ~ 15,000 RPM
Time : 0 ~ 9'59"99

NOTE The product adopts digital sensing; when the vehicle starts, the odometer and the timer will immediately start measuring. Upon achieving the maximum speed, the odometer and the timer will immediately stop measuring.

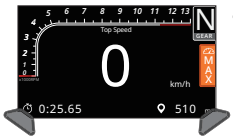
⚠ To change the speed unit of the function go to 5-3 (Change in Speed Unit).



●Speed up.



●When you reach the top speed (100 km/h), the meter will stop counting the distance (510 m), and time (25"65 seconds).



●When speed decreases to 0 km/h (MPH), the top speed record screen will apear.



●In the top speed record screen.

●Press the **Adjust button for 3 seconds**, to reset the top speed record.



●Press the **Adjust button** to confirm deletion.
●Press the **Select button** to cancel deletion.

●Successfully deleted.
●The alert dialog will disappear after 3 seconds.

5 Setting Screen Switching Description

●Press the **Select+Adjust buttons for 3 seconds** on the main screen, record screen, or vehicle condition screen to switch to the setting screen.
●Press the **Select button** or **Adjust button** to select
❶Model ❷Clock ❸Unit(Speed/Temperature/Fuel Consumption)❹Backlight(Mode/Brightness/Color) ❺Speeding warning ❻Shift light warning
❼Voltage warning ❽Maintenance mileage ❾Power Test ❿Internal and External ODO
⓫Meter information ⓬Bluetooth®
●Press the **Adjust button for 3 seconds** to enter the setting function screen.
●In the setting screen, press the **Select button for 3 seconds** to switch to the startup screen.

NOTE During setting, if any button is not pressed for 3 minutes, it will automatically return to the startup screen.

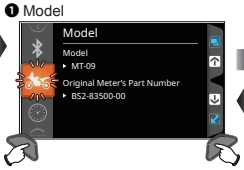
●Main screen



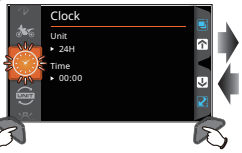
●Enter the setting screen.



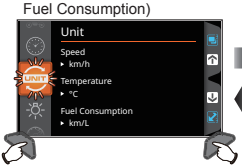
❶ Model



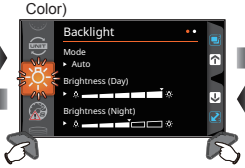
❷ Clock



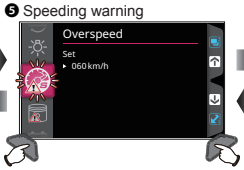
❸ Unit(Speed/Temperature/Fuel Consumption)



❹ Backlight(Mode/Brightness/Color)



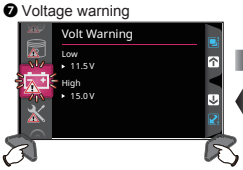
❺ Speeding warning



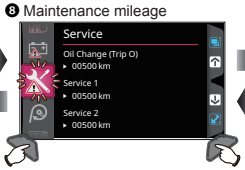
❻ Shift light warning



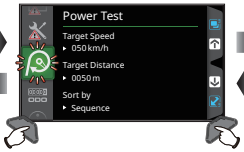
❼ Voltage warning



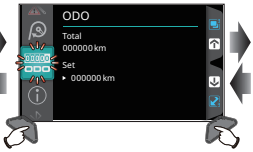
❽ Maintenance mileage



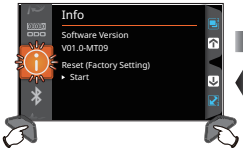
❾ Power Test



❿ Internal and External ODO



⓫ Meter information



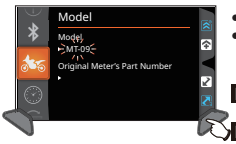
⓬ Bluetooth®



5-1 Model Setting



●The Model screen, press the **Adjust button** for 3 seconds to enter the Model setting.



●EX : Set Model to MT-09.
●Press the **Adjust button**, enter the Corresponding No. of the Vehicle screen.

NOTE Refer to **3-1** Corresponding No. of the Vehicle.

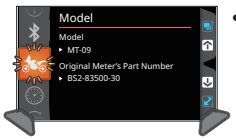
NOTE The screen is only for Yamaha MT-09.



●**Press the Select button** to choose the setting number.
●**Example : To set Corresponding No. of the Vehicle to BS2-83500-30.**

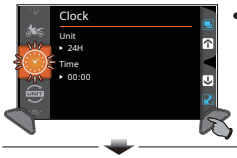


●Press the **Adjust button** to go back to the Model screen.
●EX : Set Corresponding No. of the Vehicle from BS2-83500-00 to BS2-83500-30.

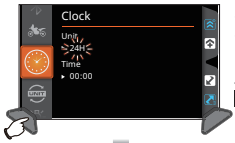


●The Model screen.

5-2 Clock Setting



●The Clock screen, press the **Adjust button** for 3 seconds to enter the clock setting.



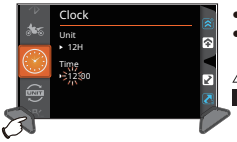
●**Example : Changing the 12H.**
●Press the **Select button** to choose the setting number.

⚠ 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 **Adjust button** to enter time adjustment hour setting.

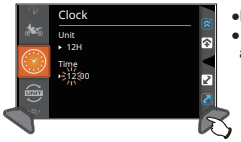


●**Example : To set clock(hour) as 10 hours.**
●Press the **Select button** to choose the setting number.

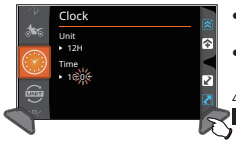
⚠ Now the setting value is flashing!

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)



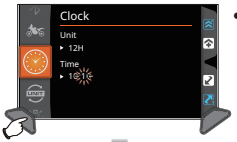
●EX : Set hour from 12:00 AM to 10:00 AM.
●Press the **Adjust button** to enter clock adjustment minute setting.



●Press the **Adjust button** to move to the digit you want to set.
●EX: To set clock(minute) as 10 minutes.

⚠ Now the setting value is flashing!

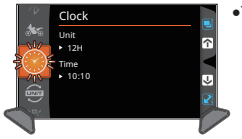
NOTE Setting range : 00~59 minutes.
Default value : 0.



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

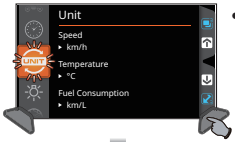


●EX : Set minute from 0 minutes to 10 minutes.
●Press the **Adjust button** to go back to the clock screen.

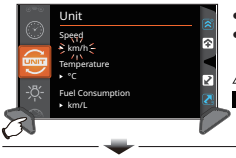


●The Clock screen.

5-3 Unit (Speed,Temperature, Fuel Consumption) Setting



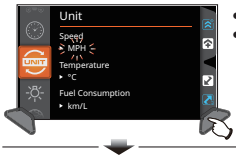
●The unit screen, press the **Adjust button for 3 seconds** to enter the speed unit setting.



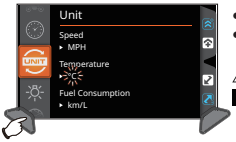
●**Example : To set speed unit as MPH.**
●Press the **Select button** to choose the setting options.

⚠ Now the setting value is flashing!

NOTE Setting range : km/h, MPH.
Default value : Subject to the vehicle type of the setting .



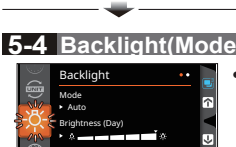
●EX : Set speed unit from km/h to MPH.
●Press the **Adjust button** to enter the temp. unit setting screen.



●**Example : To set temp. unit to ˚F.**
●Press the **Select button** to choose the setting options.

⚠ Now the setting value is flashing!

NOTE Setting range : ˚C (Celsius) and ˚F (Fahrenheit).
Default value : Subject to the vehicle type of the setting .



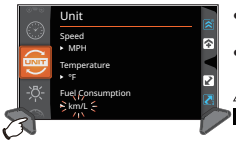
●EX : Set temp. unit from ˚C (Celsius) to ˚F (Fahrenheit).
●Press the **Adjust button** to enter the Fuel Consumption unit setting screen.



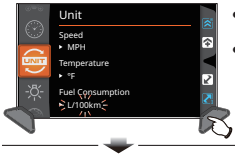
●**Example : To set fuel consumption unit as L/100km.**
●Press the **Select button** to choose the setting options.

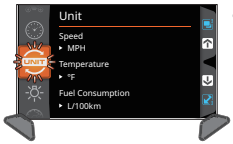
⚠ Now the setting value is flashing!

NOTE Setting range : km/L, L/100km, MPG(US), MPG(UK).
Default value : Subject to the vehicle type of the setting .



●EX : Set fuel consumption unit from km/L to L/100km.
●Press the **Adjust button** to go back to the unit (speed, temp.,fuel consumption) screen.





●The unit (speed, temp.,fuel consumption) screen.

5-4 Backlight(Mode/Brightness/Color) Setting

●The backlight screen, press the **Adjust button for 3 seconds** to enter the background mode setting.



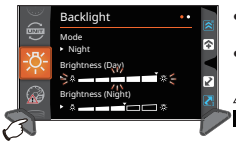
●**Example : To set the mode to Night mode.**
●Press the **Select button** to choose the setting options.

⚠ Now the setting value is flashing!

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



●EX : Set background from Auto mode to Night mode.
●Press the **Adjust button** to enter the backlight brightness (day) setting.

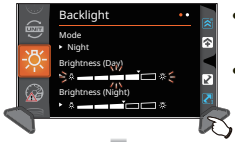


●**Example : To set the backlight brightness (day) to 4/5 (80%).**
●Press the **Select button** to choose the setting number.

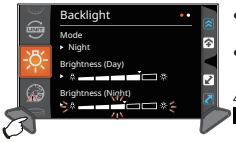
⚠ Now the setting value is flashing!

NOTE Setting range :
1/5 (Darkest) ~ 5/5 (Brightest).
Default value : 5/5 (100%).

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%).
●Press the **Adjust button** to enter the backlight brightness (night) setting.

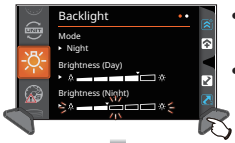


●**Example : To set the backlight brightness (night) to 2/5 (40%).**
●Press the **Select button** to choose the setting number.

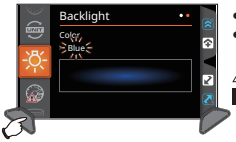
⚠ Now the setting value is flashing!

NOTE Setting range : 1/5(Darkest)~ 5 /5(Brightest),shall be ≦ the setting value of the backlight luminance (day).
Setting unit : 20% per level.
Default value : 3/5(60%).

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%).
●Press the **Adjust button** to enter the backlight color setting.



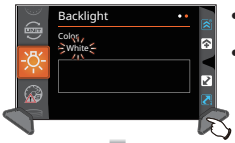
●Example : To set backlight color to white.
●Press the **Select button** to choose the color .

⚠ Now the setting value is flashing!

NOTE Switch color according to the following order,blue, green, orange,white.

NOTE Default value : blue.

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

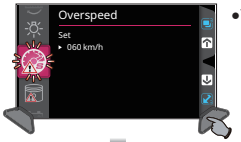


●EX : Set backlight color from blue to white.
●Press the **Adjust button** to go back to the backlight screen.

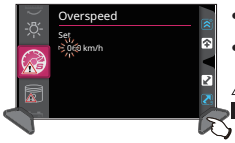


●The backlight screen.

5-5 Speed warning Setting



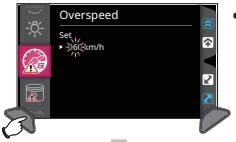
●The Speed warning screen, press the **Adjust button for 3 seconds** to enter the speeding warning setting.



●Example : To set speed warning value to 80 km/h.
●Press the **Adjust button** to move to the digit you want to set.

⚠ Now the setting value is flashing!

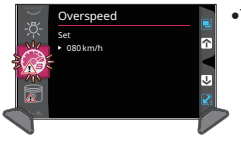
NOTE Setting range : 30~360 km/h (20~225 MPH).
Default value : 60 km/h (38 MPH).



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



●EX : Set speed warning value from 60 km/h to 80 km/h.
●Press the **Adjust button** to go back to the speed warning screen.



●The speed warning screen.

5-6 Shift light warning Setting



●The shift light warning screen, press the **Adjust button for 3 seconds** to enter the shift light warning(Steady) setting.



●Example : To set shift light warning (Steady) value to 11,000 RPM.
●Press the **Adjust button** to move to the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range : 1,000 ~ 13,000 RPM.
Default value : 9,250 RPM.



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



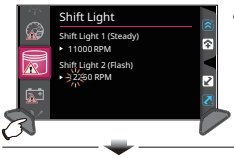
●EX **:** Set shift light warning(Steady) value from 9,250 RPM to 11,000 RPM.
●Press the **Adjust button** to enter the shift light warning(Fast Flash) setting.



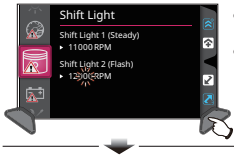
●**Example : To set shift light warning (Flash) value to 12,000 RPM.**
●Press the **Adjust button** to move to the digit you want to set.

⚠ Now the setting value is flashing!

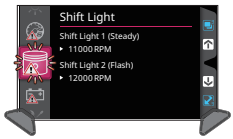
NOTE Setting range : 1,000 ~ 13,000 RPM
Default value : 11,250 RPM.



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

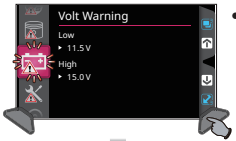


●EX **:** Set shift light warning(Flash) value from 11,250 RPM to 12,000 RPM.
●Press the **Adjust button** to go back to the shift light warning screen.

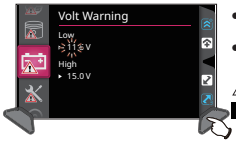


●The shift light warning screen.

5-7 Voltage warning Setting



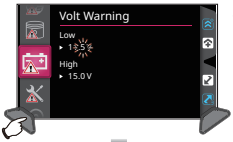
●The voltage warning screen, press the **Adjust button for 3 seconds** to enter the low voltage warning setting.



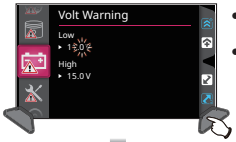
●**Example : To set low voltage warning value to DC 11.0 V.**
●Press the **Adjust button** to move to the digit you want to set.

⚠ Now the setting value is flashing!

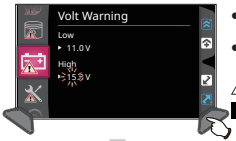
NOTE Setting range : DC 8.0~13.0 V.
Default value : DC 11.5 V.



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



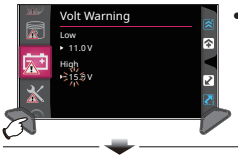
●EX : Set low voltage warning value from DC 11.5 V to DC 11.0 V.
●Press the **Adjust button** to enter the high voltage warning setting.



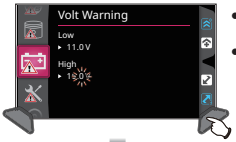
●**Example : To set high voltage warning value to DC 16.0 V.**
●Press the **Adjust button** to move to the digit you want to set.

⚠ Now the setting value is flashing!

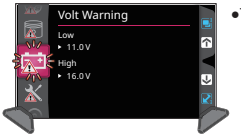
NOTE Setting range : DC 13.1~18.0 V.
Default value : DC 15.0 V.



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

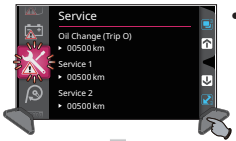


●EX : Set high voltage warning value from DC 15.0 V to DC 16.0 V.
●Press the **Adjust button** to go back to the voltage warning screen.

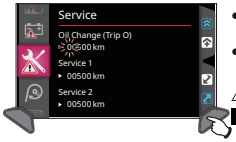


●The voltage warning screen.

5-8 Maintenance mileage Setting



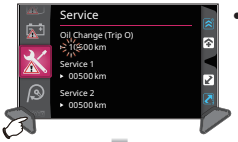
●The maintenance mileage screen, press the **Adjust button for 3 seconds** to enter the motor oil maintenance setting.



●**Example : To set motor oil maintenance as 12,000 km.**
●Press the **Adjust button** to move to the digit you want to set.

⚠ Now the setting value is flashing!

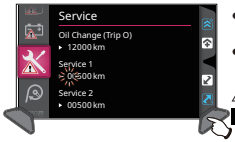
NOTE Setting range : 500 ~ 16,000 km (300~10,000 mile).
Default value : 500 km(300 mile).



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



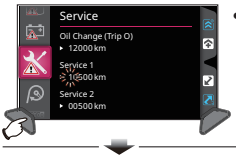
●EX : The motor oil maintenance setting is changed from 500 km to 12,000 km.
●Press the **Adjust button** to enter the maintenance mileage 1 setting.



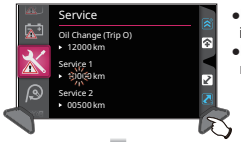
●**Example : To set maintenance mileage 1 as 10,000 km.**
●Press the **Adjust button** to move to the digit you want to set.

⚠ Now the setting value is flashing!

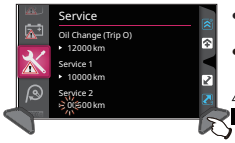
NOTE Setting range : 500 ~ 16,000 km (300~10,000 mile).
Default value : 500 km(300 mile).



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



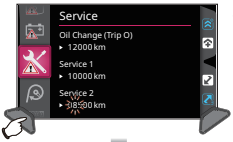
●EX : The maintenance mileage 1 setting is changed from 500 km to 10,000 km.
●Press the **Adjust button** to enter the maintenance mileage 2 setting.



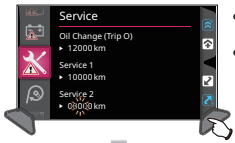
●**Example : To set maintenance mileage 2 as 8,000 km.**
●Press the **Adjust button** to move to the digit you want to set.

⚠ Now the setting value is flashing!

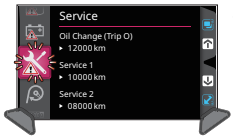
NOTE Setting range : 500 ~ 16,000 km (300~10,000 mile).
Default value : 500 km(300 mile).



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

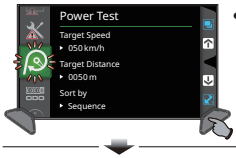


●EX : The maintenance mileage 2 setting is changed from 500 km to 8,000 km.
●Press the **Adjust button** to go back to the maintenance mileage screen.

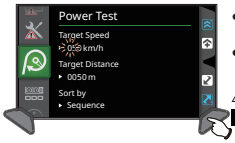


●The maintenance mileage screen.

5-9 Power Test Setting



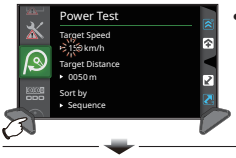
●The Power Test screen, press the **Adjust button for 3 seconds** to enter the Power Test setting.



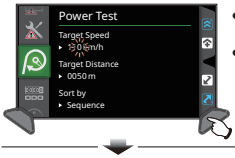
●**Example : To set target speed value to 110 km/h.**
●Press the **Adjust button** to move to the digit you want to set.

⚠ Now the setting value is flashing!

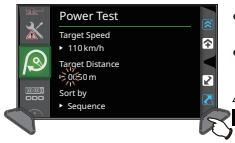
NOTE Setting range : 30~360 km/h (20~225 MPH).
Default value : 50 km/h (30 MPH).



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



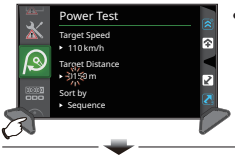
●EX : Set target speed value from 50 km/h to 110km/h.
●Press the **Adjust button** to enter the target distance setting.



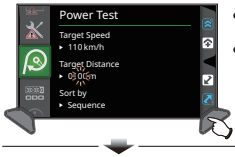
●**Example : To set target distance value to 100 m.**
●Press the **Adjust button** to move to the digit you want to set.

⚠ Now the setting value is flashing!

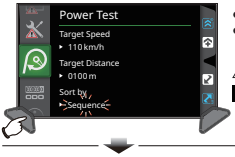
NOTE Setting range : 50~1,500 m (1/32~30/32 mile).
Default value : 50 m (1/32 mile).



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



●EX : Set target distance value from 50 m to 100 m.
●Press the **Adjust button** to enter the record order setting.



●**Example : To set record order to Best.**
●Press the **Select button** to choose the setting options.

⚠ Now the setting value is flashing!

NOTE Setting range : Sequence, Best.
Default value : Sequence.

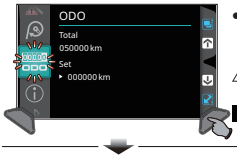


●EX : Set record order from Sequence to Best.
●Press the **Adjust button** to go back to the Power Test screen.



●The Power Test screen.

5-10 Internal and External ODO Setting



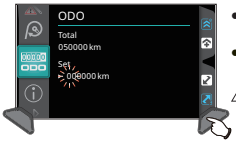
●The internal and external ODO screen, press the **Adjust button for 3 seconds** to enter the external ODO setting.

⚠ User unable to adjust or clear internal ODO.

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



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



●**Example : To set external total distance value to 12,500 km.**
●Press the **Adjust button** to move to the digit you want to set.

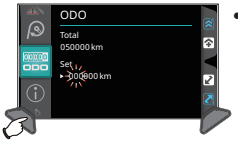
⚠ Now the setting value is flashing!

Cursor's order : one hundred thousand→thousands→thousand →hundred→ten→digit.

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

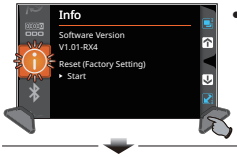


●The internal and external ODO screen.

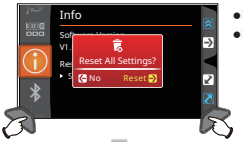


●Press the **Select button** to choose the setting number.

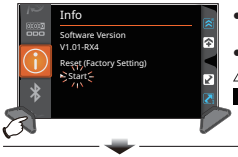
5-11 Meter information Setting



●The meter information screen, press the **Adjust button for 3 seconds** to enter the meter information setting.



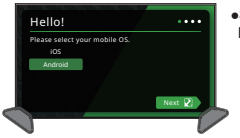
●Press the **Adjust button** to confirm reset.
●Press the **Select button** to cancel reset.



●**Example : To reset the meter(original setting).**
●**Press the Select button** to reset.

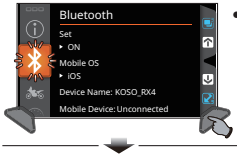
⚠ Now the setting value is flashing!

NOTE User unable to adjust or clear software Version.

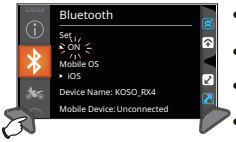


●Successfully reset and return to the boot screen for initial use.

5-12 Bluetooth® Setting



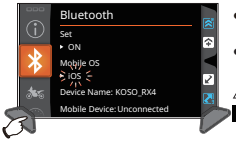
●The Bluetooth® screen, press the **Adjust button for 3 seconds** to enter the Bluetooth® setting.



●**Example : Select "ON" or "OFF" for the Bluetooth® setting.**
●Press the **Select button** to choose the setting options.
●If OFF is selected, then press the **Adjust button** to exit the Bluetooth® setting.
●If ON is selected, then press the **Adjust button** to enter the mobile operating system settings.

⚠ Now the setting value is flashing!

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



●**Example : To set mobile operating system to iOS.**
●Press the **Select button** to choose the setting options.

⚠ Now the setting value is flashing!

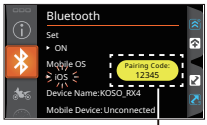
NOTE Setting range : iOS, Android.
Supported version: iOS 5.0 and above, Android 9 and above.
Default value : iOS.

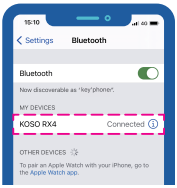


●Turn on the Bluetooth® function of the mobile phone.
●Press device "KOSO RX4."



●Enter the code displayed on "KOSO RX4."

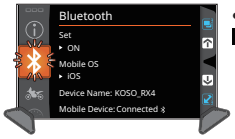




●Device successfully connected.



●EX : Bluetooth® successfully connected.
●Press the **Adjust button** to go back to the Bluetooth screen.



●The Bluetooth® screen.

NOTE After the Bluetooth® is successfully connected, the main screen may display the battery, incoming phone call notice, incoming online call notice,music playing message, information of the mobile phone.

Phone battery



●Phone battery.

NOTE Display range : 3 bars.

Push notification



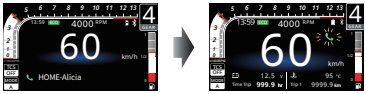
●Push notification screen.

NOTE Display range :
Name - 4 letters, and "…" is displayed for more than 4 letters.
Content -17 letters, and "…" is displayed for more than 17 letters.
→ iOS supported, not Android.

Incoming phone call notice/ Incoming online call notice



●Incoming phone call notice screen.
●Incoming online call notice screen.



●Call connected screen.

NOTE **●Incoming phone call notice screen.**
Display range : Display name or number for up to 12 letters; "…" is displayed if > 12 letters;
"Unknown" is displayed when there is no name
iOS - Display either name or number of the incoming call
Android - Display number only
●Incoming online call notice screen.
Display range : Display name for up to 12 letters;
"…" is displayed if >12 letters;
"Unknown" is displayed when there is no name
→ Support LINE, WeChat, WhatsApp
→ iOS supported, not Android.

Music playing info



●Music playing info screen.

NOTE Song title: 15 letters, and "…" displayed if > 15 letters
Artist name: 18 letters, and "…" displayed > 18 letters
Total length of the song : 00:00 ~ 9:59:59,
"9:59:59" displayed if longer.
→iOS supported, not Android.
Current playing time : 00:00 ~ 9:59:59,
"9:59:59" is displayed if longer.
→Support iOS supported, not Android.

※ "The Company is committed to optimizing the Bluetooth® application function of the meter. However, as supports for software and hardware are different as mobile phones differ, the Bluetooth® application function of the meter may be affected, causing differences in functions."

6 Trouble Shooting

The following situations do not necessarily indicate malfunction of the product. Check the following points, before contacting us.

Trouble	Check item	Trouble	Check item
The meter doesn't work when the power is on.	**●The power isn't supplied to the meter. →Make sure the wiring is connected. The wiring and fuse are not broken. →The battery is too old to supply needed power (DC 12 V).**	**Fuel meter doesn't display or display error.**	**●Check your fuel tank. ●May be due to poor connection of wiring. →Check whether the wires are disconnected or have fallen off. ●May be wrong settings. →Check the 3-1 Corresponding No. of the Vehicle.**
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.	●May be due to poor connection of wiring. →Check whether the wires are disconnected or have fallen off. ●May be wrong setting. →Check the setting list to see whether the setting for clock is correct.
Speed meter doesn't appear or appears incorrectly.	**●May be due to poor connection of wiring. →Check whether the wires are disconnected or have fallen off. ●May be wrong settings. →Check the 3-1 Corresponding No. of the Vehicle.**	**Voltage doesn't appear or appears incorrectly.**	**●May be due to poor connection of wiring. →Check whether the wires are disconnected or have fallen off.**
Tachometer doesn't appear or appears incorrectly.	●May be due to poor connection of wiring. →Check whether the wires are disconnected or have fallen off. ●May be wrong settings. →Check the 3-1 Corresponding No. of the Vehicle.	The meter indicator didn't display.	●May be due to poor connection of wiring. →Check whether the wires are disconnected or have fallen off.
Thermometer doesn't appear or appear incorrectly.	**●May be wrong settings. →Check the 3-1 Corresponding No. of the Vehicle.**		

※ If the problems still can't be solved, contact our technical department for assistance.

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