



● 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!

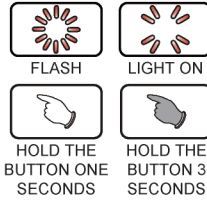
- For installation, please follow the steps described. Any damage caused by wrong installation shall be imputed to the users.
- To avoid a short circuit from occurring do not pull or modify the wires during installation.
- Do not disassemble or change any parts. Opening and disassembling this unit will void any warranty.
- Maintenance and repairs should be executed by our professionals only.

⊙ Symbol description:

NOTE

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

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



1-1 Accessories

1 LCD Meter X1	2 Main wiring harness X1	3 Active speed sensor X1	4 RPM wire (Type A) X1
5 RPM wire set (TYPE B) X1	6 Sensor wire set X1	7 Temperature sensor X1	8 External switch (Dual button type) X1
9 Rubber strip X1	10 M8 / S type speed sensor bracket X1	11 M10 / S type speed sensor bracket X1	12 M5x5xP0.8 Hexagon screw X2
13 2.5 mm Allen key X1	14 3 mm Allen key X1	15 Meter bracket X1	16 M4X12Lmm Screw X3
17 M5 washer X3	18 M6 X 35L Screw X2	19 M8 X 30L Screw X2	20 M6 Screw X2
21 M8 Screw X2	22 M6 Gasket X2	23 M8 Gasket X2	

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

1-2 Optinal accessories

1 L type speed sensor bracket BI003S01	2 Oil temp sensor adapter M12 X P1.5 X 15L M14 X P1.25 X 15L M14 X P1.5 X 15L M16 X P1.5 X 15L M18 X P1.5 X 15L M20 X P1.0 X 15L M20 X P1.5 X 15L BG*****	3 Water temp sensor adapter M14 M16. M18 M22. M26 mm BG*****	4 Signal connect wire 20-c94300a
5 Oxygen sensor 28-bk00210	6 Sensor bung bf003r000e	7 Screw cap ba550r020e	

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

2-1 Wiring Installation Instructions

Mid-way connect
Orange- L turn signal light (+12V)
Green- Red - ABS light
Gray- Motor oil light (-)
White- Neutral light (-)
Blue- R turn signal light (+12V)
Yellow- High beam light (+12V)
Green- Fuel
Purple- Engine light (-)
Red / Positive pole (Connect to the battery DC 12V)
Brown - Positive wire should be connect to main power switch
Black / Ground wire connect to the negative pole of the battery.

Temperature sensor (Accessory 7) Please install the temp sensor to the position.
Sensor wire set (Accessory 6)
Yellow-white/White-black-Temperature sensor terminals
Oxygen sensor (Option accessory 5)
Signal connect wire (Option accessory 4)
External switch (Accessory 8)
Brown-white/Red-white/White-red Push button switch terminal
Active speed sensor (Accessory 3)
Blue-red/Blue-white/White-black Connect to speed sensor
RPM wire (Type A) (Accessory 4)
RPM wire set (TYPE B) (Accessory 5)
Ignition coil positive
Flywheel
Ignition pulse
Pick up
RPM wire set (TYPE B) (Accessory 5)
Coil
Spark plug wire
Spark plug cap
Spark
Tachometer
EMS CDI

Main switch wiring reference:

	Power	Key on	Ground
YAMAHA	Red	Brown	Black
HONDA	Red	Red / Black	Green
SUZUKI		Black	Green
KAWASAKI	White	Brown	Black / Yellow
KYMCO	Red	Black	Green
SYM	Red	Black	Green
PGO	Red / White	Orange	Black

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

RPM wiring reference:

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

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

Fuel indicator wiring reference:

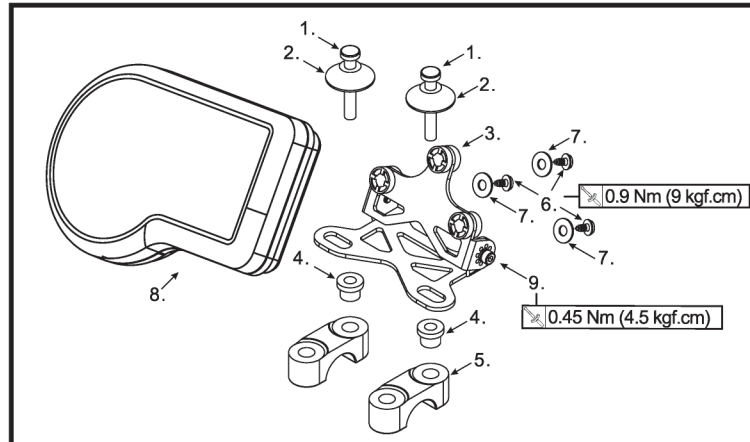
	Power	KYMCO	Yellow / White
YAMAHA	Green	SYM	Yellow / White
HONDA	Yellow / White	PGO	Gray
SUZUKI	Yellow / White		
KAWASAKI	Black / L Green		

⚠ The fuel sensor is electronic type, please don't parallel connection with the original- otherwise the fuel gauge won't display. The wrong installation of the fuel wiring may cause the meter break.

NOTE When connecting the power wire, please follow carefully the instructions. If the red & brown wires are connected in parallel, the meter won't work properly.

- ⚠ The RPM wire installation
We recommend installing the R type spark plug or low-resistance spark plug cap at the same time.
 - A. Connect the RPM wire (Type A) on the spark plug wire by connecting the male and female connectors.
 - B. Connect the RPM wire (Type B) to the pick up sensor.
 - C. Connect in parallel the RPM wire (Type A) with the original tachometer signal wire.
- The best signal source will be in order as C>B>A, we will suggest that you check different ways if you have problems getting the RPM signal.**

2-2 Installation instructions



Follow the steps below during installation.

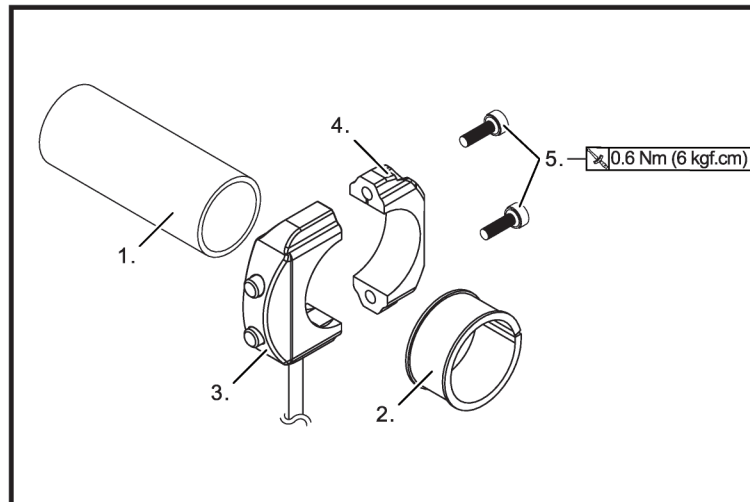
1. M6 or M8 Screw X2 (Accessory 18,19)
2. M6 or M8 Screw X2 (Accessory 20,21)
3. Meter bracket (Accessory 15)
4. M6 or M8 Gasket X2 (Accessory 22,23)
5. Handle bar bracket

NOTE You can also install it (meter bracket) on the original meter bracket.

6. M4 screw X 3 (Accessory 16)
7. M5 washer X3 (Accessory 17)
8. LCD Meter (Accessory 1)
9. Meter bracket micro-adjustment screw

NOTE You can choose the angle first and then use the screw to fix the angle.

NOTE The handle bar bracket screw and screw hole will differ depending on the model. We suggest you to use the additional assembly (item 1.2.4) to fit it.



Installation steps

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

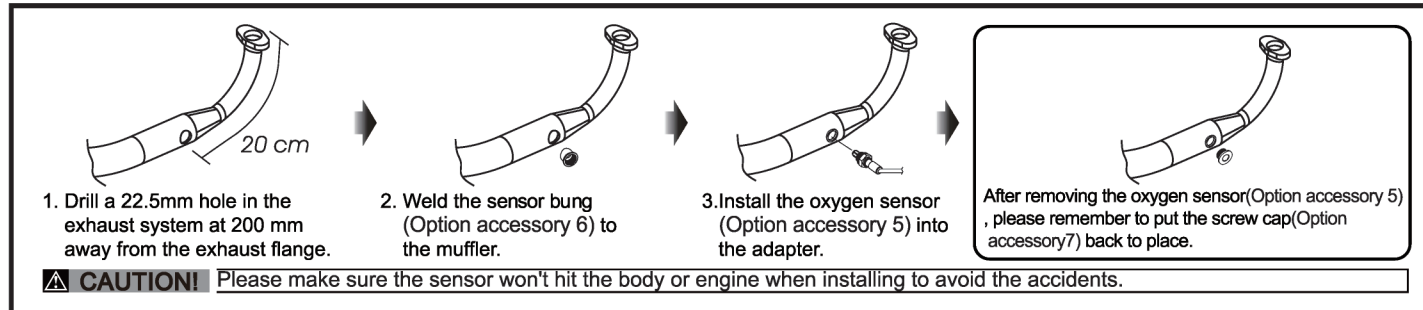
CAUTION! Refer to the list below and decide whether to use rubber strip according to the grip diameter.

Handle bar SIZE	Use Rubber strip
7/8"(22.2 mm)	NO
1"(25.4 mm)	YES

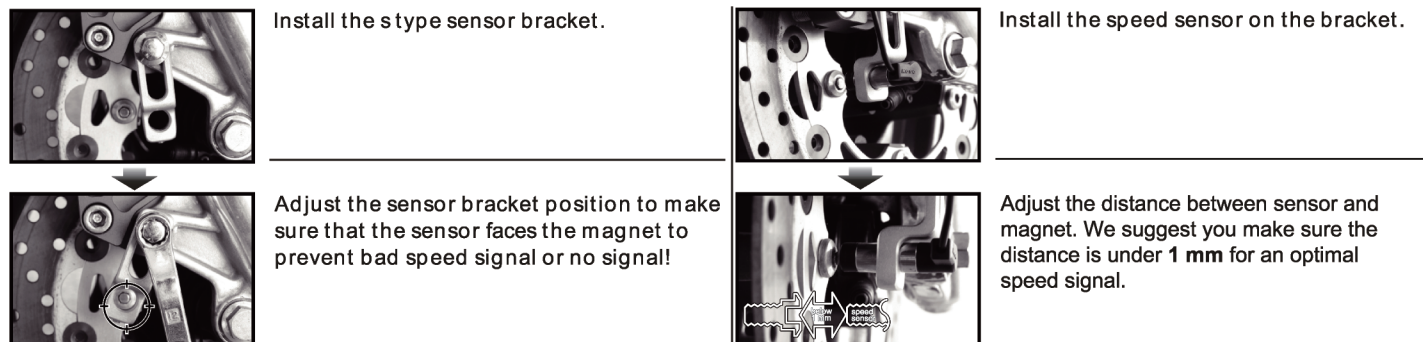
3. External switch (Dual button type) - Upper case (Accessory 8)
4. External switch (Dual button type) - Bottom case (Accessory 8)
5. M3x12xP0.5 mm screw

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

2-3 Oxygen Sensor Installation



MOTO / SCOOTER S type speed sensor bracket instruction



PS.



The active speed sensor could be facing the metal parts to detect the speed.

EX. 1 The disc screw.

EX. 2 The disc to detect the disc gap. (Please make sure the distances between the gaps are the same in advance to avoid wrong speed signal.)

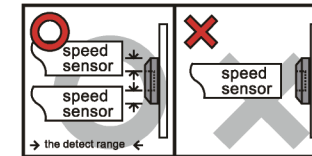
EX. 3 The sprocket to detect the disc gap. (Please make sure the distances between the gaps are the same in advance to avoid wrong speed signal.)

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

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

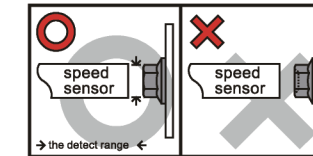
After installation, please use your hand to turn the tire to see if everything is ok. The LED on the active speed sensor will light up once the signal is detected.

EX. 1



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

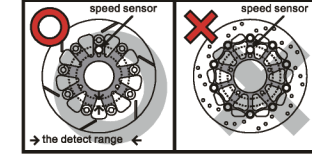
Please don't pick-up the signal from the middle hole of the hexagon socket screw to avoid wrong signal.



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

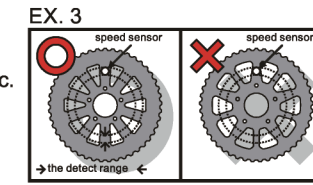
Some hexagon screw center is with a small hole in the center. In this case, we will suggest you to catch the signal from the edge of the screw like the hexagon socket screw.

EX. 2,4



The disc
The best detection area: Please detect the speed signal from the gaps of the disc.

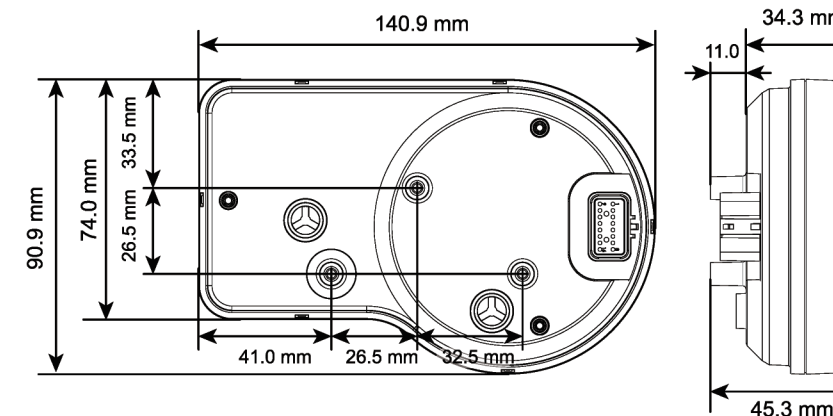
Please note that there are discs with the gaps in different difference, and this method will not work on it!



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

Please note that there are sprockets with the gaps in different difference, and this method will not work on it!

3-1 Meter Size



3-2 Basic Function Instruction

Fuel warning setting

- Setting range : 0 ~ 3/6
- Setting unit : 1

Voltage warning

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

Motor oil maintenance

- Setting range : 500 ~ 16,000 km(300~10,000 mile), OFF
- Setting unit : 100 km(mile)

Shift light warning setting

- Setting range : 1,000 ~ 15,000 RPM
- Setting unit : 100 RPM

Tachometer

Display range : 0~15,000 RPM

Indicator

- Warning light (Red)
- Indication light (Green)
- High beam light (Blue)
- Neutral light (Green)
- Engine light (Amber)
- Motor oil light (Red)
- ABS light (Amber)

Speeding warning setting

- Setting range : 30~360 km/h (20~225 MPH)
- Setting unit : 1 km/h (MPH)

Overheat warning setting

- Setting range : 60 ~ 250 °C (140 ~ 482 °F)
- Setting unit : 1 °C (°F)

Gear Meter

- Display range : -, N, 1~the highest gear (the highest gear shall be based on the gear learning)

Fuel meter

- Display range : 6 levels

Speedometer

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

Clock

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

Thermometer

- Display unit : °C and °F Switchable
- Display range : 0 ~ 250 °C(32 ~ 482 °F)
- Display unit : 0.1°C (°F)

A/F ratio meter

- Display range : 12.1~17.5
- Display unit : 0.1

Voltmeter

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



Odometer

- Display range : 0~999,999 km (mile)and then return to zero
- Display unit : 1 km (mile)

Trip meter A, B

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

Motor oil maintenance

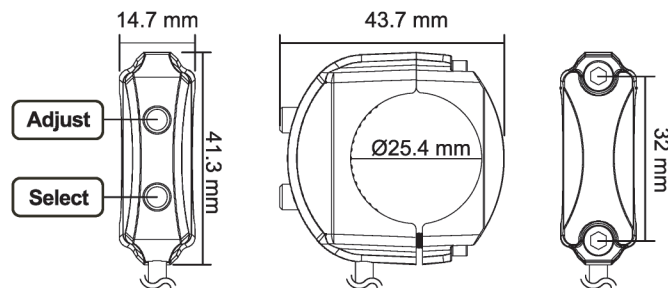
- Display range : 500~16,000 km (300~10,000 mile)(user adjustable)~999 km(mile)
- Display unit : 1 km (mile)

3-3 Specifications(Meter)

●Speedometer	Display range : 0 ~ 360 km/h (0 ~ 225 MPH) Display unit : 1 km/h (MPH) Switchable	●Clock	Setting range : 00:00~23:59 (24H) 01:00~12:59 (12H)
○Odometer	Display range : 0 ~ 999,999 km (mile)and then return to zero Display unit : 1 km (mile)	●Voltmeter	Display range : DC 8.0 ~ 18.0 V Display unit : DC 0.1 V
○Trip meter A, B	Display range : 0~9,999.9 km (mile), may return to zero manually Setting unit : 0.1 km (mile)	○Low voltage warning	Setting range : DC 8.0~13.0 V, when setting value is reach or below, warning light will lit. Setting unit : DC 0.1 V
○Motor oil maintenance	Setting range : 500 ~ 16,000 km(300~10,000 mile),OFF Setting unit : 100 km(mile)	○High voltage warning	Setting range : DC 13.1~18.0 V, when setting value is reach or above, warning light will lit. Setting unit : DC 0.1 V
○Speeding warning setting	Setting range : 30~360 km/h (20~225 MPH), when setting value is reach or above, warning light will lit. Setting unit : 1 km/h (MPH)	●Target speed	Setting range : 30 ~ 360 km/h (20 ~ 225 MPH) Setting unit : 5 km/h (MPH)
○Max. speed record	Display range : 0 ~ 360 km/h (0 ~ 225 MPH) Display unit : 1 km/h (MPH)	●Target distance	Setting range : 50 ~ 1,500 m (1/32 ~ 30/32 mile) Setting unit : 50 m (1/32 mile)
○Circumference	Setting range : 300~2,500 mm Setting unit : 1 mm	●Top speed	Display range 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
○Sensitive point	Setting range : 1~40 P Setting unit : 1 P	●Background display	Setting range : 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.
●Gear Meter(Learning)	Display range : -, N, 1~the highest gear, (the highest gear shall be based on the gear learning)	○Back light brightness (Day)	Setting range : 3/5~ 5/5(Brightest) Setting unit : 1/5
○Max. Gear record	Display range : -, N, 1~the highest gear (the highest gear shall be based on the gear learning)	○Back light brightness (Night)	Setting range : 1/5(Darkest) ~ 5/5(Brightest) Setting unit : 1/5
●Tachometer	Display range : 0~15,000 RPM	○Back light color	Setting range : white, red, orange,green,blue, Loop switch
○Shift light warning setting	Display range : Steady, Fast Flash Setting range : 1,000~15,000 RPM Setting unit : 100 RPM	●Unit	Speed unit : km/h , MPH Temperature unit : °C (Celsius) and °F (Fahrenheit)
○Max. rotating speed	Display range : 0~15,000 RPM (At the MAX screen, the pointer shows the highest speed recorded so far.)	●Voltage	DC 12 V
○The RPM input signal number setting	0.5,1.0~24.0	●Operating temperature	-20~ 85 °C
○The RPM input pulse	Setting range : Low-Act, High-Act	○Storage temperature	-30~ 90 °C
●Thermometer	Display range : 0 ~ 250.0 °C (32.0 ~ 482.0 °F) Display unit : 0.1 °C (°F)	●Specification	JIS D 0203 (S2)
○Overheat warning setting	Setting range : 60 ~ 250 °C (140 ~ 482 °F), when setting value is reach or above, warning light will lit. Setting unit : 1 °C (°F)	●Meter Size	140.9 x 90.9 x 45.3 mm
○Max. temperature record	Display range : 0 ~ 250 °C (32.0 ~ 482 °F)	●Meter Weight	Around 188 g
●A/F ratio meter	Display range : 12.1~17.5 Display unit : 0.1	●Indicator	Indication light (Green) High beam light (Blue) Neutral light (Green) Engine light (Amber) Motor oil light (Red) ABS light (Amber)
●Fuel meter	Display range : 6 levels Display unit : 1 level(16.6 %) Setting range : 100 Ω, 250 Ω, 270 Ω,390 Ω, 510 Ω, 1200 Ω, SW, learning mode,OFF	○Composite warning light	OFF, Fast Flash,Steady, Slow Flash/(Red)
○Fuel warning setting	Setting range : 0 ~ 3/6, when setting value is reach or below, warning light will lit. Setting unit : 1	○Over-running light	Fast Flash, Steady/(Red)

NOTE Design and specifications are subject to change without notice!

3-4 Size,Specifications(Meter External Switch)



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

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

NOTE Design and specifications are subject to change without notice!

3-5 Buttons Function Description

●Press the Adjust button.
Record Screen→Switch to Target speed, Target distance, and Top speed in a cycle.
Setting Screen→Switch to setting function.
Setting function screen→Increase the value in a cycle.

●Press the Adjust button for 3 seconds.
Main screen→1. Enter the fast setting for Clock and Backlight.
2. Return to the main screen from fast setting.
Record Screen→Enter the fast setting for Target distance,Target speed and Top speed.
Setting screen→Switch to the startup screen.

●Press and hold the Adjust button.
Setting function screen→Accumulate the value, switch options in a cycle.

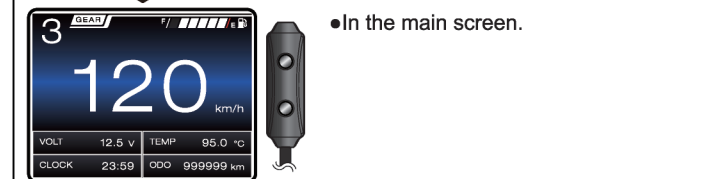
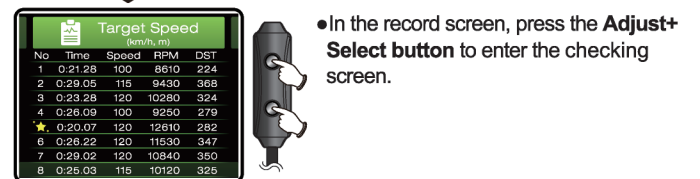
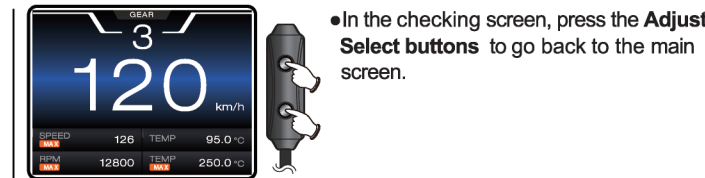
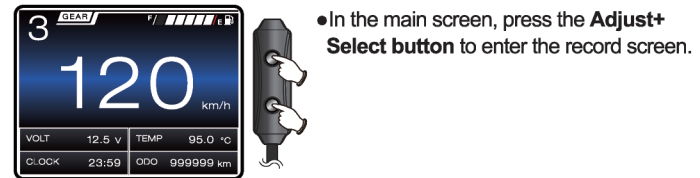
●Press the Select button.
Main screen→Switch to ODO, TRIP A, TRIP B, TRIP O, and MAX in a cycle.
Record Screen→Enter the testing screen.
Setting Screen→Switch to setting function.
Setting function screen→Confirm selection and switch to the next functional option on the same page in a cycle.

●Press the Select button for 3 seconds.
Main screen→Individually clear or reset TRIP A, TRIP B,TRIP O, or MAX records.
Record Screen→Individually clear Target distance,Target speed, or Top speed records.
Checking Screen→Enter the MAX. record clear screen.
Setting Screen→Enter the setting function screen.
Setting function screen→Go back to the setting screen.

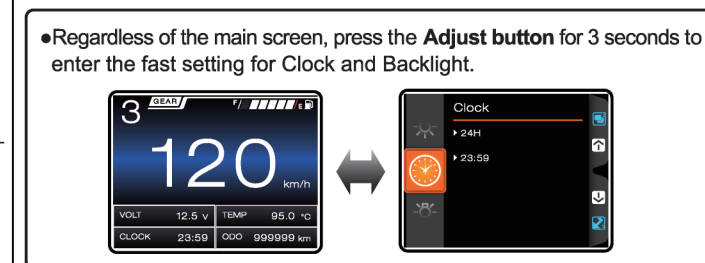
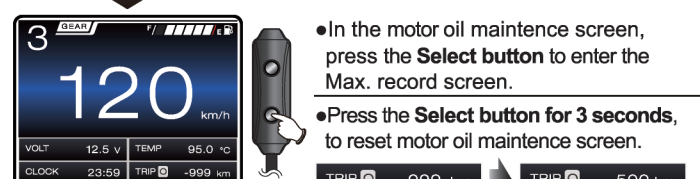
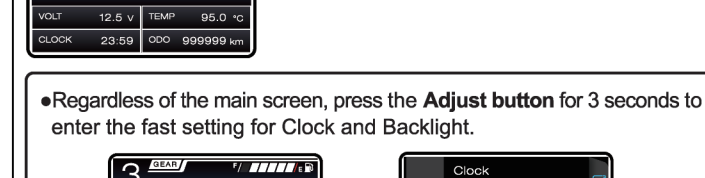
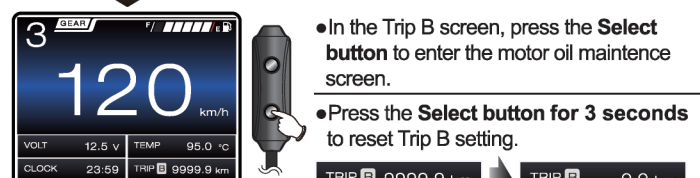
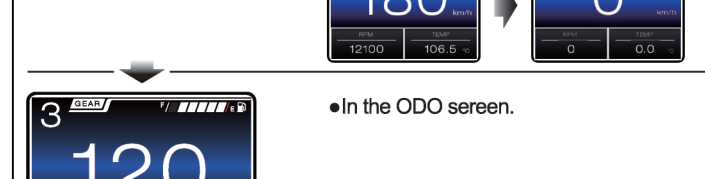
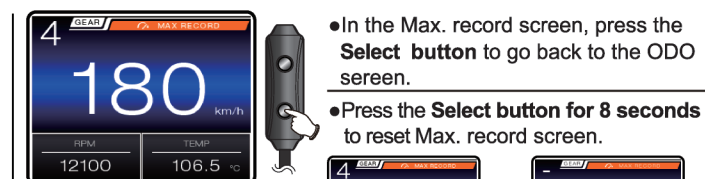
●Press the Adjust + Select buttons.
Main screen→Switch to record Screen.
Record Screen→Switch to checking screen.
Checking Screen→Switch to main screen.

●Press the Adjust + Select buttons for 3 seconds.
Main screen→Switch to setting screen.
Record Screen→Switch to setting screen.
Checking Screen→Switch to setting screen.

4 Startup Screen Switching Description



4-1 Main Menu Switching Description



4-2 Record Screen Switching Description (Target Speed, Target Distance, Top Speed)

In the main screen, press the Adjust+Select button to enter the target speed record screen.

In the target speed record screen, press the Adjust button to enter the target distance record screen.

In the target distance record screen, press the Adjust button to enter the top speed record screen.

In the top speed record screen, press the Adjust+Select button to enter the checking screen.

Regardless of the record screen, press the Adjust button for 3 seconds to enter the Power Test fast setting.

4-2-1 Description Of Target Speed Test

In the target speed record screen, press the Select button to enter the testing screen.

NOTE Start the test when the bike is fully stopped.

WARNING! Use this function on racetracks to avoid accidents.

In the testing screen.

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 appear.

In the target speed record screen.

Press the Select button for 3 seconds, to reset the target speed record.

Press the Adjust button to cancel deletion.

Press the Select button to confirm deletion.

Deletion succeeded.

4-2-2 Description Of Target Distance Test

In the target distance record screen, press the Select button to enter the testing screen.

NOTE Start the test when the bike is fully stopped.

WARNING! Use this function on racetracks to avoid accidents.

In the testing screen.

When the bike moves, the timer will start automatically.

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

In the target distance record screen.

Press the Select button for 3 seconds, to reset the target distance record.

Press the Adjust button to cancel deletion.

Press the Select button to confirm deletion.

Deletion succeeded.

4-2-3 Description Of Top Speed Test

In the top speed record screen, press the Select button to enter the testing screen.

NOTE Start the test when the bike is fully stopped.

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 appear.

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 would immediately start measuring. Upon achieving the maximum speed, the odometer and the timer would immediately stop measuring.

The speed unit of the function would change according to 5-2 Change in Speed Unit.

Speed up.

In the top speed record screen.

Press the Select button for 3 seconds, to reset the top speed record.

Press the Adjust button to cancel deletion.

Press the Select button to confirm deletion.

Deletion succeeded.

4-3 Checking Screen Switching Description

In the main screen, press the Adjust+Select buttons for 2 times to enter the checking screen.

In the checking screen, press the Adjust+Select buttons to go back to the main screen.

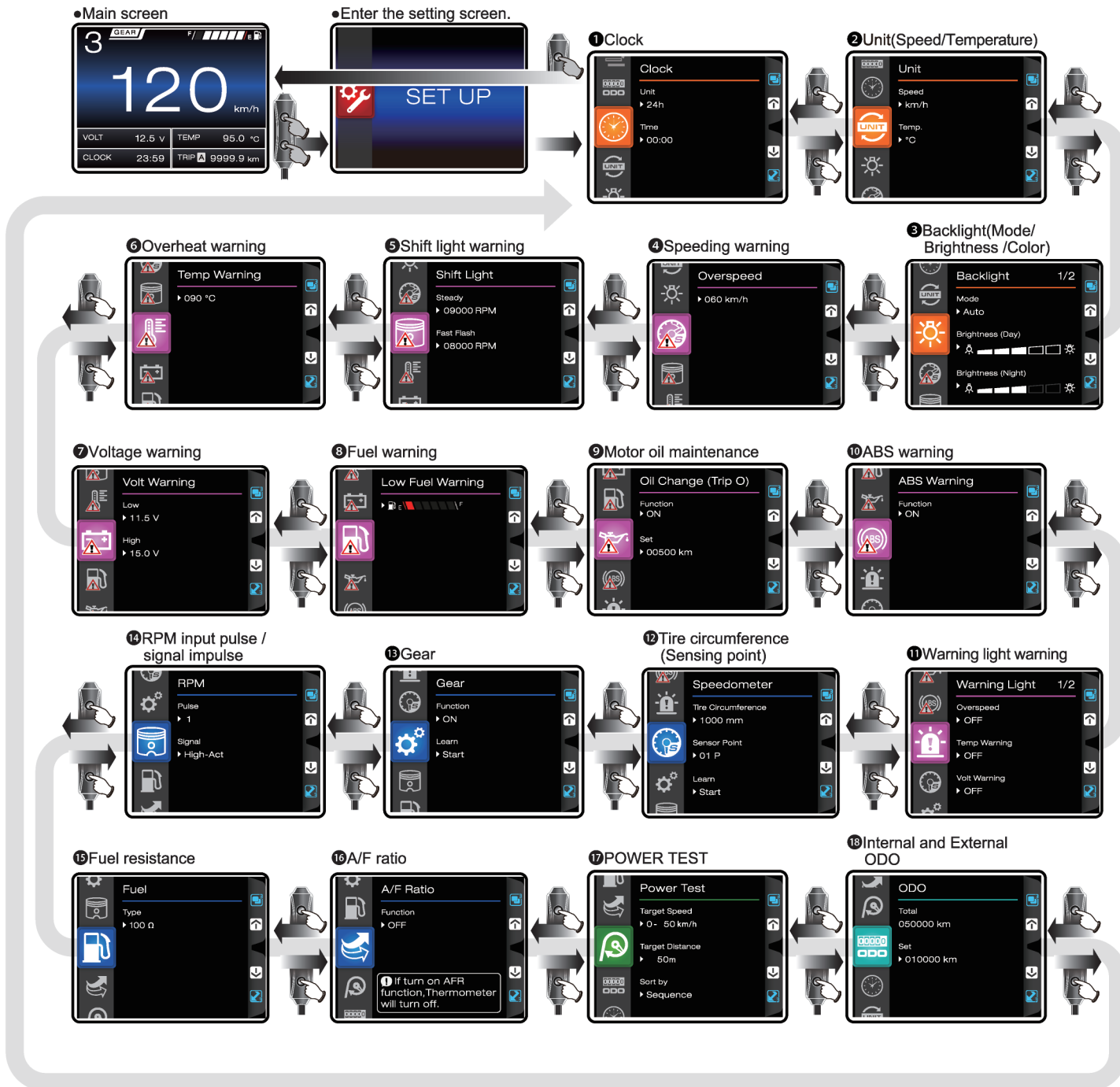
Press the Select button for 3 seconds to clear all MAX. record.

In the main screen.

5 Setting Screen Switching Description

- Press the **Adjust + Select** buttons for 3 seconds on the main screen, record screen, or checking screen to switch to the setting screen.
- Press the **Adjust** button or **Select** button to select
- 1 Clock 2 Unit(Speed/Temperature) 3 Backlight(Mode/Brightness/Color) 4 Speeding warning 5 Shift light warning 6 Overheat warning 7 Voltage warning 8 Fuel warning 9 Motor oil maintenance 10 ABS warning 11 Warning light warning 12 Tire circumference(Sensing point) 13 Gear 14 RPM input pulse / signal impulse 15 Fuel resistance 16 A/F ratio 17 POWER TEST 18 Internal and External ODO and etc.
- Press the **Select** button for 3 seconds to enter the setting function screen.
- In the setting screen, press the **Adjust** button for 3 seconds to switch to the startup screen.

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



5-1 Clock Setting

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

- Example : To set clock(minute) as 10 minutes.
- Press the **Select** button to move to the digit you want to set.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 00~59 minutes. Default value : 0.

- Example : Changing the 12H.
- Press the **Adjust** button to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 12 H, 24 H. Default value : 24 H.

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

- EX : Set time format from 24 H to 12 H.
- Press the **Select** button to enter time adjustment hour setting.

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

- Example : To set clock(hour) as 10 hours.
- Press the **Adjust** button to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE** Cursor moving order is : Hour → Digit in ten minutes → Digit in minutes
- NOTE** Setting range : 1~12(12H) 0~23(24H) Default value : 12(12H)/0(24H)

- The Clock screen.

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

5-2 Unit (Speed, Temperature) Setting

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

- Example : To set temp. unit to °F.
- Press the **Adjust** button to choose the setting options.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : C (Celsius) and °F (Fahrenheit). Default value : °C (Celsius).

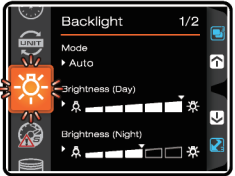
- Example : To set speed unit as MPH.
- Press the **Adjust** button to choose the setting options.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : km/h, MPH. Default value : km/h.

- EX : Set temp. unit from °C (Celsius) to °F (Fahrenheit).
- Press the **Select** button to go back to the unit (speed, temp.) screen.

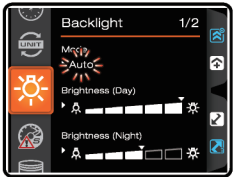
- EX : Set speed unit from km/h to MPH.
- Press the **Select** button to enter the temp. unit setting screen.

- The unit (speed, temp.) screen.

5-3 Backlight Setting(Mode/Brightness/Color)




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




- Example : To set the mode to Night mode.**
- Press the **Adjust** 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 the bright environment and Night mode display for the dark environment), Day mode, Night mode. Default value : Auto.



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

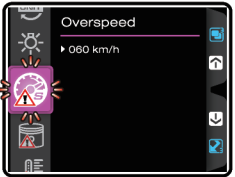


- Example : To set the backlight brightness (day) at 4(80%).**
- Press the **Adjust** button to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 3~ 5 (Brightest). Setting unit : 20% per level. Default value : 5(100%).
- NOTE** The backlight brightness will change immediately after you set the value.




- EX : The backlight brightness (day) setting is changed from 5 (100%) to 4 (80%).
- Press the **Select** button to enter the backlight brightness (night) setting.


5-4 Speeding Warning Setting




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




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



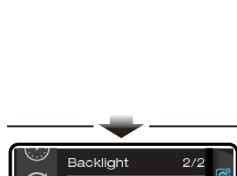
- Example : To set the backlight brightness (night) at 2(40%).**
- Press the **Adjust** button to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 1 (Darkest) ~ 5 (Brightest), 5 different levels available. Setting unit : 20% per level. Default value : 3(60%).
- NOTE** The backlight brightness will change immediately after you set the value.




- EX : The backlight brightness (night) setting is changed from 3 (60%) to 2 (40%).
- Press the **Select** button to enter the backlight color setting.



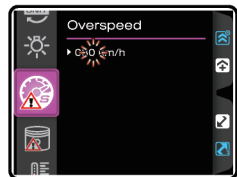
- Example : To set backlight color to blue.**
- Press the **Adjust** button to choose the color .
- ⚠ Now the setting value is flashing!
- NOTE** Switch color according to the following order, white, red, orange, green, blue.
- NOTE** Default value : White.
- NOTE** The backlight color will change immediately after you set the value.




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



- The backlight screen.

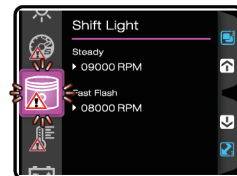


- EX : Set speed warning value from 60 KPH to 80 KPH.
- Press the **Select** button to go back to the speed warning screen.




- The speed warning screen.


5-5 Shift Light Warning Setting



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



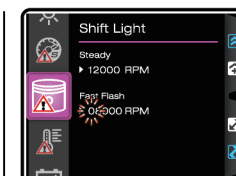
- Example : To set shift light warning (Steady) value to 12,000 RPM.**
- Press the **Select** button to move to the digit you want to set.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 1,000~15,000 RPM. Default value : 9,000 RPM.




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



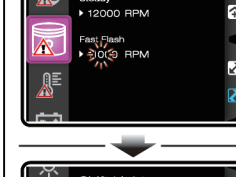
- EX : Set shift light warning(Steady) value from 9,000 RPM to 12,000 RPM.
- Press the **Select** button to enter the shift light warning(Fast Flash) setting.



- Example : To set shift light warning (Fast Flash) value to 11,000 RPM.**
- Press the **Select** button to move to the digit you want to set.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 1,000~15,000 RPM. Default value : 8,000 RPM.
- ⚠ It will flash when it reaches the shift light value.



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

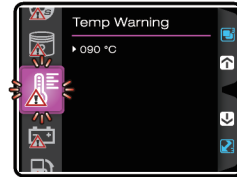


- EX : Set shift light warning(Fast Flash) value from 8,000 RPM to 11,000 RPM.
- Press the **Select** button to go back to the shift light warning screen.

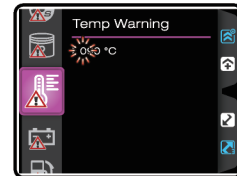


- The shift light warning screen.


5-6 Overheat Warning Setting



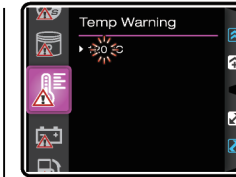
- The overheat warning screen, press the **Select** button for 3 seconds to enter the overheat warning setting.



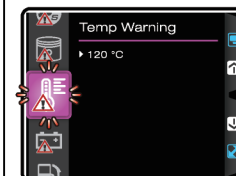
- Example : To set overheat warning value to 120 °C.**
- Press the **Select** button to move to the digit you want to set.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : 60 ~250 °C (140 ~482 °F). Default value : 90 °C(194 °F).



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

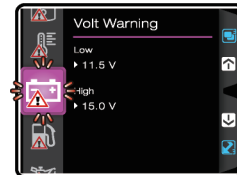


- EX : Set overheat warning value from 90 °C to 120 °C.
- Press the **Select** button to go back to the overheat warning setting.

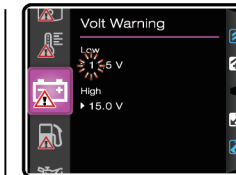


- The overheat warning screen.

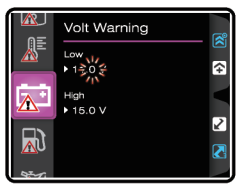
5-7 Voltage Warning Setting



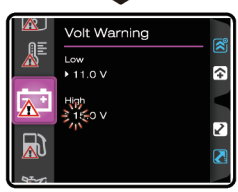
- The voltage warning screen, press the **Select** button for 3 seconds to enter the low voltage warning setting.




- Example : To set low voltage warning value to DC 11.0 V.**
- Press the **Adjust** button to choose the setting number.
- ⚠ Now the setting value is flashing!
- NOTE** Setting range : DC 8.0~13.0 V. Default value : DC 11.5 V.



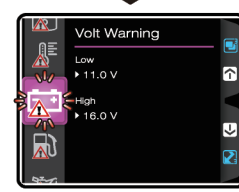
- EX : Set low voltage warning value from DC 11.5 V to DC 11.0 V.
- Press the **Select** button to enter the high voltage warning setting.



- Example** : To set high voltage warning value to DC 16.0 V.
- Press the **Adjust** button to choose the setting number.
- ⚠ **Now the setting value is flashing!**
- NOTE** Setting range : DC 13.1~18.0 V. Default value : DC 15.0 V.




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




- The voltage warning screen.


5-8 Low Fuel Warning Setting




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



- Example** : To set low fuel warning value to 3/6.
- Press the **Adjust** button to choose the setting number.
- ⚠ **Now the setting value is flashing!**
- NOTE** Setting range : 0/6 ~ 3/6. Default value : 1/6.

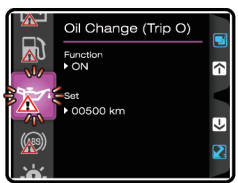


- EX : Set low fuel warning value from 1/6 to 3/6.
- Press the **Select** button to go back to the low fuel warning screen.

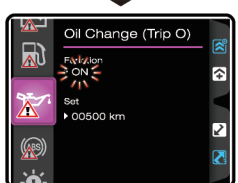


- The low fuel warning screen.

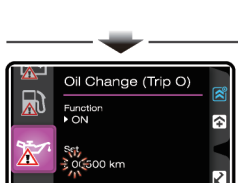
5-9 Motor Oil Maintenance Setting




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



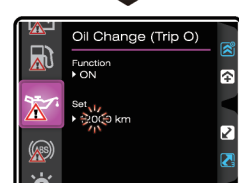
- Press the **Adjust** button, and select whether to turn on the motor oil maintenance function.
- Select ON to enter the motor oil maintenance setting.
- ⚠ **Now the setting value is flashing!**
- NOTE** Setting range : ON, OFF. Default value : ON.



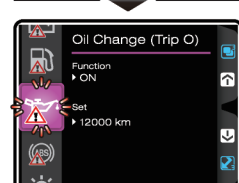
- Example** : To set motor oil maintenance as 12,000 km.
- Press the **Select** button to move to the digit you want to set.
- ⚠ **Now the setting value is flashing!**
- NOTE** Setting range : 500 ~ 16,000 km (300~10,000 mile). Default value : 500 km(300 mile).



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



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

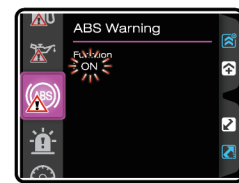



- The motor oil maintenance screen.


5-10 ABS Warning Setting



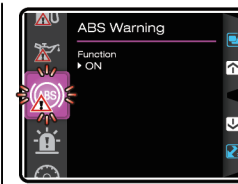
- The ABS warning screen, press the **Select** button for 3 seconds to enter the ABS warning setting.



- Press the **Adjust** button, and select whether to turn on the ABS warning function.
- ⚠ **Now the setting value is flashing!**
- NOTE** Setting range : ON, OFF. Default value : ON.
- ⚠ When choosing ON, the ABS signal light  would light.




- Press the **Select** button to go back to the ABS warning screen.




- The ABS warning screen.

5-11 Warning Light Warning Setting




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




- Press the **Adjust** button to choose the setting number.
- Press the **Select** button to confirm selection.
- ⚠ **Now the setting value is flashing!**
- NOTE** Setting range : OFF, Fast Flash, Steady, Slow Flash. Default value :

 1. Overspeed : OFF
 2. Temp Warning : OFF
 3. Volt Warning : OFF
 4. Low Fuel Warning : OFF
 5. Trip oil : OFF

- NOTE** Priority setting range :
 1. FF > S > SF / 2. FF > SF > S /
 3. S > FF > SF / 4. S > SF > FF /
 5. SF > FF > S / 6. SF > S > FF
 Default value : FF>S>SF
 ※FF=Fast Flash / S=Steady / SF=Slow Flash /

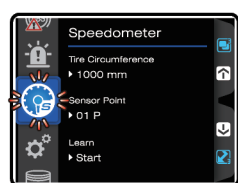


- Press the **Select** button to go back to the warning light warning screen.




- The warning light warning screen.

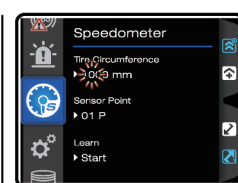
5-12 Tire Circumference and sensing point setting



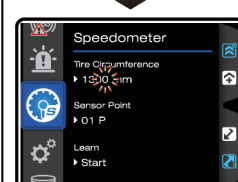
- The tire circumference and sensing point screen, press the **Select** button for 3 seconds to enter the tire circumference and sensing point setting.
- ⚠ **CAUTION!**
- Please measure the tire circumference (The tire you will install the sensor on) and make sure the number of sensor point.
- The speed displayed on the meter will be affected by the setting, please make sure the setting number is correct before you enter the setting.
- ⚠ Please reset this setting value if you change to a different tire size.



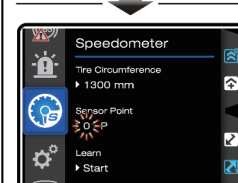
- Example** : If the tire circumference is 1,300 mm.
- Press the **Select** button to choose the setting number.
- ⚠ **Now the setting value is flashing!**
- NOTE** Setting range : 300~2,500 mm. Default value : 1,000 mm.



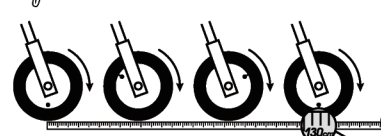
- Press the **Adjust** button to choose the setting number.



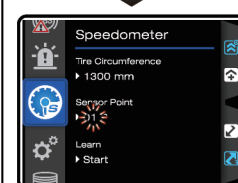
- EX : Set the tire circumference value from 1,000 mm to 1,300 mm .
- Press the **Select** button to enter the sensor point setting.



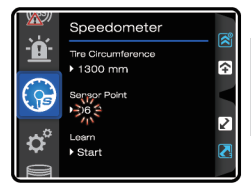
- Example** : To set the sensor point value to 06 P .
- Press the **Select** button to choose the setting number.
- ⚠ **Now the setting value is flashing!**
- NOTE** Setting range : 01 P~40 P. Default value : 01 P.

P.S. 

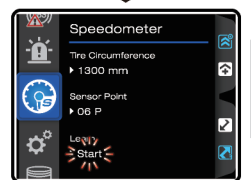
- You can use the tire valve as the starting point and the terminal point to measure the wheel circumference with a measuring tape.




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



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

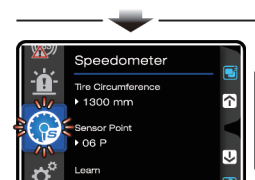


- Press the **Adjust** button to start the learning mode.




- Please ride for 1 km(1 mile); after the arrival, press the **Select** button for 3 seconds. Complete learning by return to the tire circumference and sensing point screen.
- Press the **Adjust** button for 3 seconds to cancel learning.

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




- The tire circumference and sensing point screen.

5-13 Gear Setting



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

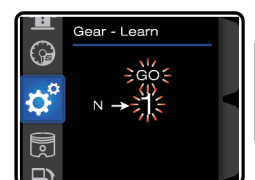


- Example : You want to set the gear setting to ON.
- Press the **Adjust** button to choose the setting options.


⚠ Now the setting value is flashing!

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


NOTE Select OFF to return to the gear screen.




- 1 → 2 ○Please change to Gear 2.
- 2 → 3 ○Please change to Gear 3.
- 3 → 4 ○Please change to Gear 4.
- 4 → 5 ○Please change to Gear 5.
- 5 → 6 ○Please change to Gear 6.




- After reaching and finishing Gear 6, please wait for a few seconds to end gear-learning and return to the gear screen.



- The gear screen.

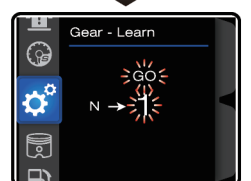


- EX : Set the gear setting to ON.
- Press the **Select** button to enter the gear-learning setting screen.



- Press the **Adjust** button to start the gear-learning setting.

NOTE Enter the Learning Mode, and learn the Gear position according to the speed and RPM.



- In the gear-learning setting.

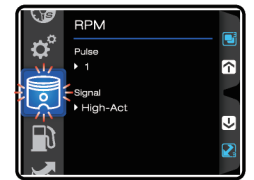
CAUTION! Before setting, be sure to put your motor in Neutral to avoid error detection.

CAUTION! "Fail" on the screen means error detection, please re-set Gear-Learn.

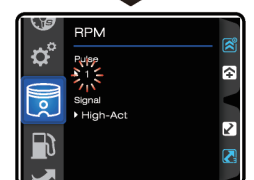
CAUTION! If gear learning is not required, press **Adjust** and hold for 3 seconds to cancel the gear learning.

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

5-14 RPM Input Pulse & Signal Impulse



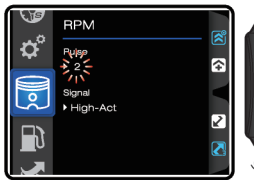
- The RPM input pulse & signal impulse screen, press the **Select** button for 3 seconds to enter the RPM input pulse & signal impulse setting.



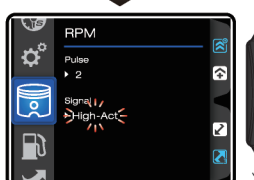
- Example : You want to set the RPM input pulse to 2 (4 Stroke, 4 piston).
- Press the **Adjust** button to choose the setting number.

⚠ Now the setting value is flashing!

NOTE Setting range : P-0.5, 1.0~24.0. Default value : 1.0.



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




- Example : Set the signal impulse to Low-Act.
- Press the Adjust button to choose the setting options.

⚠ Now the setting value is flashing!

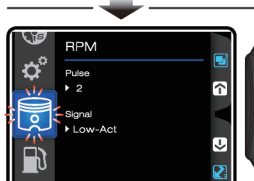
NOTE Setting range : High-Act, Low-Act. Default value : High-Act.

The setting value	The corresponding stroke and pistons number.	The corresponding RPM signal number per ignition.
0.5	4C-1P	2 RPM signals per 1 ignition.
1.0	2C-1P 4C-2P	1 RPM signal per 1 ignition.
2.0	2C-2P 4C-4P	1 RPM signal per 2 ignition.
3.0	2C-3P 4C-6P	1 RPM signal per 3 ignition.
4.0	2C-4P 4C-8P	1 RPM signal per 4 ignition.
5.0	4C-10P	1 RPM signal per 5 ignition.
6.0	2C-6P 4C-12P	1 RPM signal per 6 ignition.

CAUTION! Most of the 4-cycle bikes with one single piston are igniting once every 360 degree, so the setting should be the same as the bike with 2-cycle and one piston engine.

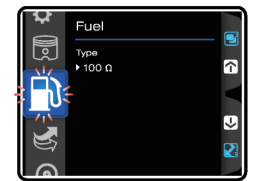


- EX : Set the signal impulse from High-Act to Low-Act.
- Press the **Select** button to go back to the RPM input pulse & signal impulse screen.

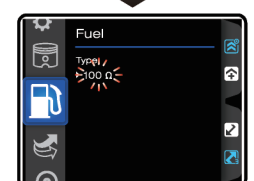


- The RPM input pulse & signal impulse screen.

5-15 Fuel Gauge Resistance Setting(Ω)



- The fuel gauge resistance screen, press the **Select** button for 3 seconds to enter the fuel gauge resistance setting.



- Example: If the vehicle is a YAMAHA T-MAX 530, it's resistance is 100 Ω according to the 5-15-1 service manual.
- Press the **Adjust** button to choose the setting number.

⚠ Now the setting value is flashing!

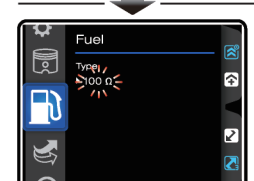
NOTE Setting range : 100 Ω, 250 Ω, 270 Ω, 390 Ω, 510 Ω, 1200 Ω, SW, Custom, OFF. Default value : 100 Ω.

5-15-1 Fuel Gauge Resistance Reference

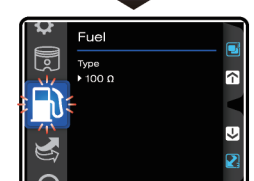
Manufacture	Model	The setting value	Manufacture	Model	The setting value
YAMAHA	JOG 50, 100	100 Ω	SUZUKI	V 125	100 Ω
	RS100	100 Ω	KYMCO	GOING 100	510 Ω
	RSZ 100	100 Ω		JR 100	510 Ω
	SV MAX 125	100 Ω		SR G4 125	510 Ω
	CYGNUS 125	100 Ω		V-LINK GP 125	510 Ω
	CYGNUS-X 125	100 Ω		KTR 150	100 Ω
	GTR 125	100 Ω		Racing S 125,150	1200 Ω
	LC 135	100 Ω		Quannon 150	1200 Ω
	NEW LC 135	100 Ω		G5 125,150	1200 Ω
	LAGENDA 110	100 Ω		G6 150	100 Ω
	S-MAX 155	100 Ω		VJR 50,110	1200 Ω
	MIO 110	100 Ω	SYM	S-PRO 100	100 Ω
	AEROX 50	100 Ω		Wolf 125	100 Ω
	BW'S 125	100 Ω	PGO	TIGRA 125,150	700 Ω
	FORCE 155	270 Ω		X-HOT 125,150	100 Ω
HONDA	MSX/GROM 125	270 Ω		I'ME 125	100 Ω
	MONKEY 125	390 Ω		J BUBU 115	700 Ω
	WAVE 110	510 Ω		G-MAX 125	100 Ω
	GN5 110	510 Ω		G-MAX 150	700 Ω
	SH-150i	510 Ω	AEON	ELITE 250	100 Ω
	PCX 125	100 Ω		CO-IN 125	100 Ω
GILERA	RUNNER 50	100 Ω		MY 125,150	100 Ω
PEUGEOT	SPEEDFIGHT 50	100 Ω	GILERA	MINI 125	100 Ω
APRILIA	SR 50	100 Ω	PEUGEOT	HD 150	100 Ω

Custom fuel level resistance:
 1) Manual - Please check 5-15-2 Fuel Level Resistance Manual Setting Instructions.
 2) Auto - Please check 5-15-3 Fuel Level Resistance Auto Setting Instructions.

NOTE If the fuel sensor wire is not plugged in, fuel level will display error.




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

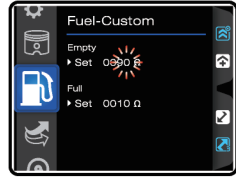


- The fuel gauge resistance screen.

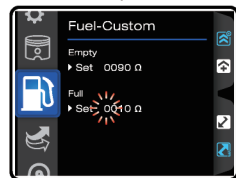
5-15-2 Fuel Gauge Resistance Setting (Manual)



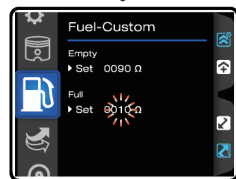
- Press the **Select** button to enter the fuel gauge resistance setting (manual).
- Example** : For **YAMAHA T-MAX 530**, according to the service manual, the fuel tank resistance from low to high is **90 - 100 Ω** (the lowest) and **4 - 10 Ω** (the highest). So enter the setting value as **10 Ω**.



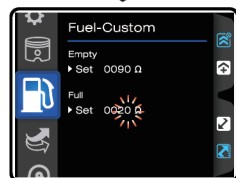
- EX** : Set the lowest fuel level resistance value from **80 Ω** to **90 Ω**.
- Press the **Select** button twice to enter the highest fuel level resistance setting.



- Example** : To set the highest fuel level resistance value as **10 Ω**.
- Press the **Select** button to move to the digit you want to set.
- Now the setting value is flashing!



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




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




- The fuel gauge resistance screen.

P.S.

- You could find your fuel level sensor resistance range in the electronic components section in the service manual.
- Normally, we will recommend to choose the closest number set as the range to ensure that riders will not run out of gas before the fuel level indication. example, for **YAMAHA T-MAX** it's **90 - 100 Ω** and **4 - 10 Ω**, in which case we will suggest to use **90 - 10 Ω** as the lowest and highest range.

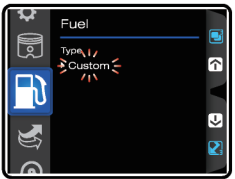


- Example** : To set the lowest fuel level resistance value as **90 Ω**.
- Press the **Select** button to move to the digit you want to set.
- Now the setting value is flashing!



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

5-15-3 Fuel Gauge Resistance Setting (Auto Detection)




- Press the **Select** button to enter the fuel gauge resistance setting (auto detection).
- CAUTION!**
- Before detection, ensure that your current fuel level is in the lowest position that you would like to have.
- Stop the vehicle for a few seconds to allow the fuel surface to become steady, then start the detection of the resistance.

P.S.

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


The lowest position



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

P.S.

- The highest position
- For example of **YAMAHA T-MAX 530**, if the fuel surface sensor float in the highest position then press the **Adjust** button, it will detect the resistance around **10 Ω**.

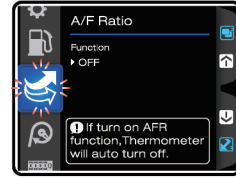


- EX** : Auto Detection the highest fuel level resistance value is **10 Ω**.
- Press the **Select** button to go back to the fuel gauge resistance screen.

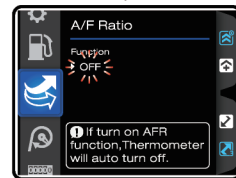


- The fuel gauge resistance screen.

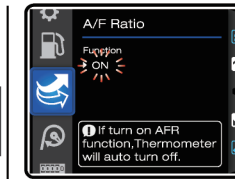
5-16 A/F Ratio Setting



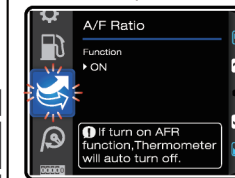
- The A/F ratio screen, press the **Select** button for **3 seconds** to enter the A/F ratio setting.
- NOTE** To use the A/F ratio function, you will need to install related accessories and wiring.



- Press the **Adjust** button, and select whether to turn on the A/F ratio warning function.
- Now the setting value is flashing!
- NOTE** Setting range : ON, OFF. Default value : OFF.
- If turn on AFR function, Thermometer will auto turn off.

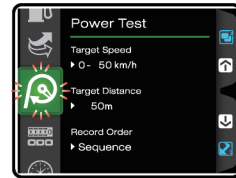


- Press the **Select** button to go back to the A/F ratio screen.

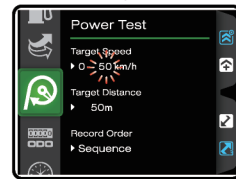


- The A/F ratio screen.

5-17 Power Test Setting



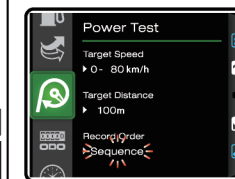
- The Power Test screen, press the **Select** button for **3 seconds** to enter the Power Test setting.



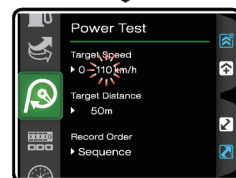
- Example** : To set target speed value to **110 km/h**.
- Press the **Adjust** button to choose the setting number.
- Now the setting value is flashing!
- NOTE** Setting range : 30~360 km/h (20~225 MPH). Default value : 50 km/h (30 MPH).



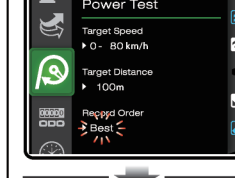
- EX** : Set target distance value from **50 m** to **100 m**.
- Press the **Select** button to enter the record order setting.



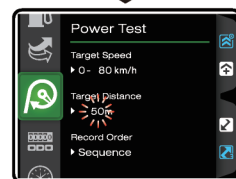
- Example** : To set record order to **Best**.
- Press the **Adjust** button to choose the setting options.
- Now the setting value is flashing!
- NOTE** Setting range : Sequence, Best. Default value : Sequence.



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



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




- Example** : To set target distance value to **100 m**.
- Press the **Adjust** button to choose the setting number.
- 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).




- The Power Test screen.


5-18 Internal and External ODO Setting




- The internal and external ODO screen, press the **Select 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 10,000 km to 12,500 km.
- Press the **Select button** to go back to the internal and external ODO screen.



- Example : To set external total distance value to 12,500 km.**
- Press the **Select button** to move to the digit you want to set.
- ⚠ Now the setting value is flashing!
- NOTE** 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 **Adjust button** to choose the setting number.

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.	<ul style="list-style-type: none"> •The power isn't supplied to the meter. →Please make sure the wiring is connected. The wiring and fuse are not broken. →The battery is too old to supply needed power (DC 12 V). 	A/F ratio doesn't appear or appear incorrectly.	<ul style="list-style-type: none"> •Check the setting. →Refer to the manual 5-16 A/F ratio setting.
The meter shows wrong information. Speed meter doesn't appear or appears incorrectly.	<ul style="list-style-type: none"> •Check the voltage of your battery, and make sure the voltage is over DC 12 V. •May be poor connection of the speed sensor. →Please check the speed sensor is connected correctly. •Check the setting. →Refer to the manual 5-12 circumference and sensing point setting. 	Fuel meter doesn't display or display error.	<ul style="list-style-type: none"> •Check your fuel tank. •May be poor connection of the harness. →Please make sure the wires are connected correctly. •Check the setting. →Please check the settings menu, the fuel settings are correct.
Tachometer doesn't appear or appears incorrectly.	<ul style="list-style-type: none"> •Make sure the RPM wire is connected properly. →Check the RPM wire wire is connected correctly. •Please check the spark plug is R type or not. If not, please replace the spark plug with the R type spark plug. •Check the setting. →Refer to the manual 5-14 RPM input pulse, signal impulse. 	The clock is incorrect.	<ul style="list-style-type: none"> •Check the setting. →Please check the settings menu, the clock settings are correct. •May be due to the reversed power line. →Please check the positive wire(Red) connects to the battery(DC 12 V), and main switch positive wiring(Brown) connects to the main switch(DC 12 V).
Thermometer doesn't appear or appear incorrectly.	<ul style="list-style-type: none"> •Make sure the temperature wire is connected properly. →Please check the temperature wire is connected correctly. •Check the setting. →Refer to the manual 5-6 overheat warning setting. 	The meter indicator didn't display.	<ul style="list-style-type: none"> •May be poor connection of the harness. →Please make sure the wires are connected correctly.

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