KOSO Feel The Speed

BA044000

Thank you for purchasing KOSO's RXF meter. Before operating this unit, please read the instructions thoroughly and retain them for future reference.

⚠ Notice

1.DC **12V** applications only.
2.Any damages caused by faulty installation shall be imputed to the users.
3.To avoid ashort circuit from occuring, do not damage or modify the wire terminal during installation.
4.Maintenance and repairs should be executed by our professionals only.
5.Dissassembly of the unit will void any warranty.

SYMBOL MEANING:

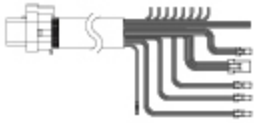
NOTE

⚠	Some procedures must be followed to avoid damages caused by faulty installation.
⚠ **WARNING!**	Some procedures must be followed in order to avoid damages from occuring to yourself or to others.
⚠ **CAUTION!**	Some procedures must be followed in order to avoid damage from occuring to the vehicle.

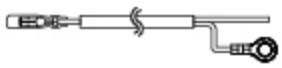
1-1 Accessories

1 Meter X 1

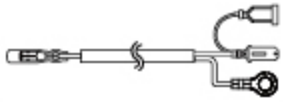
2 Main wiring X 1



3 RPM wire (Type A) X 1



4 RPM wire (Type B) X 1



5 Temp sensor wire X3

6 TH-01 water temp sensor X 2

7 Air temp sensor X 1

8 Active Speed Sensor

9 M8 / S type speed sensor bracket X 1

10 M10 / S type speed sensor bracket X 1

11 M5 X 5L hexagonal bolt X 2

12 2.5 mm spanner X 1

13 Meter bracket X 1

14 Rubber Grommet X3

15 M5 gasket X 3

16 M4 X 10L screw X 3

17 3 mm spanner X 1

18 Mid-way connector X 10

19 M6 X 35L Screw X 2

20 M8 X 30L Screw X 2

21 M6 Screw X 2

22 M8 Screw X 2

23 M6 Gasket X 2

24 M8 Gasket X 2

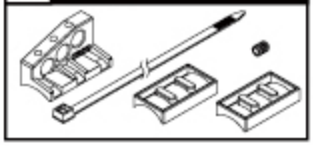
1-2 Optional accessories

1 Speed sensor X1

2 Magnetic Bolt

5/16-18 X 22.1L
M5 X P0.8 X 12L
M6 X P1.0 X 12.6L
M6 X P1.0 X 19.7L
M6 X P1.0 X 24L
M8 X P1.25 X 22.5L M8 X P1.25 X 27.5L
M8 X P1.25 X 29L M10 X P1.25 X 28.3L

3 L type speed sensor bracket



4 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

5 Water temp sensor adapter

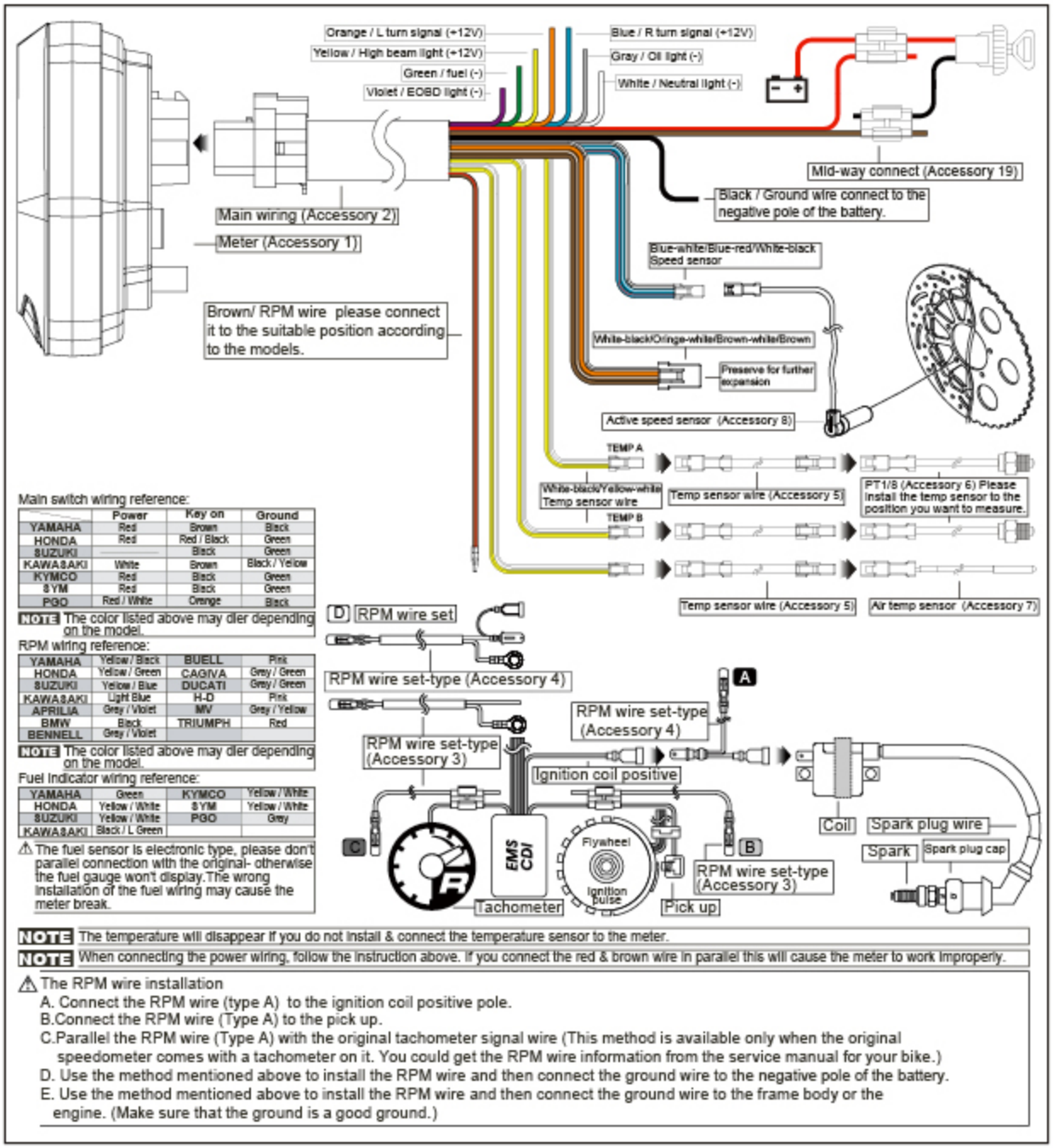
M14
M16.M18
M22.M26 mm

6 Temp sensor

M10 X P1.0
M12 X P1.5
M14 X P1.25
M14 X P1.5
M16 X P1.5 / M18 X P1.5

7 Temp sensor wire set (2 M)

2-1 Wiring installation instructions



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 diler depending on the model.

RPM wiring reference:

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

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

Fuel Indicator wiring reference:

YAMAHA	Green	KYMCO	Yellow / White
HONDA	Yellow / White	SYM	Yellow / White
SUZUKI	Yellow / White	PGO	Grey
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.

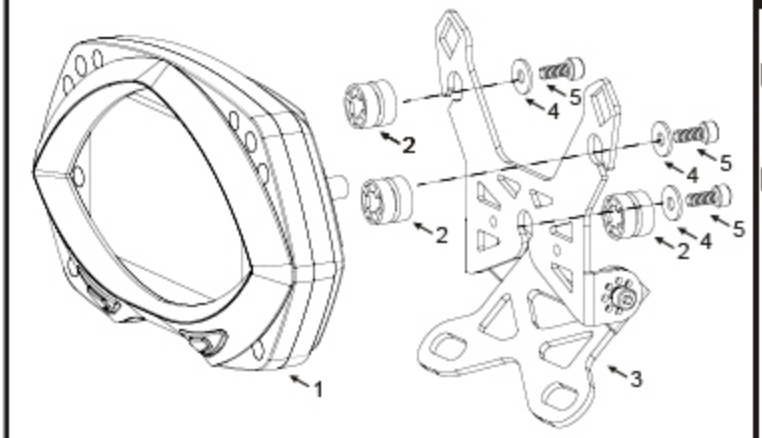
NOTE The temperature will disappear if you do not install & connect the temperature sensor to the meter.

NOTE When connecting the power wiring, follow the instruction above. If you connect the red & brown wire in parallel this will cause the meter to work improperly.

⚠ The RPM wire installation

A. Connect the RPM wire (type A) to the ignition coil positive pole.
B.Connect the RPM wire (Type A) to the pick up.
C.Parallel the RPM wire (Type A) with the original tachometer signal wire (This method is available only when the original speedometer comes with a tachometer on it. You could get the RPM wire information from the service manual for your bike.)
D. Use the method mentioned above to install the RPM wire and then connect the ground wire to the negative pole of the battery.
E. Use the method mentioned above to install the RPM wire and then connect the ground wire to the frame body or the engine. (Make sure that the ground is a good ground.)

2-2 Installation instructions



Installation Steps

1.Meter X1(Accessory 1)
2.Shock Proof Plug X3(Accessory 15)
NOTE Remove the shock proof plug and install it on the chronograph
3.Meter bracket X1(Accessory 14)
4.M5 gasket X3(Accessory 16)
5.M4 X 10L mm screw X3 (Accessory 17)
NOTE Select desired angle, tighten the screw tight after adjusting

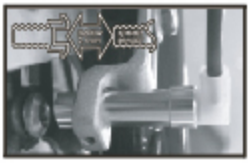
MOTO / SCOOTER S type speed sensor bracket instruction

Loose the screw on the caliper

Install the S type bracket on the caliper.

Please adjust the bracket to the proper angle and then screw it up. Please make sure the disc screw could pass the hole on the bracket for you to install the sensor into the same hole for catching the speed signal.

Install the speed sensor.



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

MOTO / SCOOTER L type speed sensor bracket instruction

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

Please use the cable tie to fix the bracket on the front fork. Please make sure the disc screw could pass the hole on the bracket for you to install the sensor into the same hole for catching the speed signal.

Please install the speed sensor into the proper hole on the bracket.

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

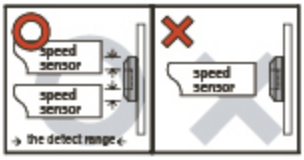
P.S

The active speed sensor could be installed by the metal parts to detect the speed.
EX. 1 The disc screw.
EX. 2 The disc to detect the disc gap. (Please make sure the distances between the gaps are the same in advance to avoid wrong speed signal.)
EX. 3 The sprocket to detect the disc gap. (Please make sure the distances between the gaps are the same in advance to avoid wrong speed signal.)

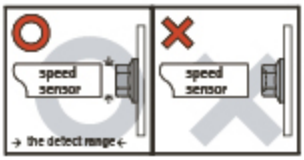
We will suggest you to catch the speed from the disc screws. The more the sensor points are, the better the speed accuracy is. The maximum sensor points the speed sensor could detect is 60 points per turn.

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

EX. 1

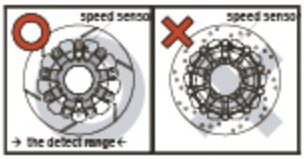


The hexagon socket disc screw
The best detect area: The edge of the hexagon socket screw.
⚠ Please don't catch the signal from the middle hole of the hexagon socket screw to avoid wrong signal.



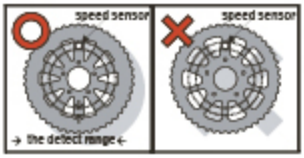
The hexagon screw
The best detect area: The middle of the screws.
⚠ Some hexagon screw center is with a small hole in the center in this case, we will suggest you to catch the signal from the edge of the screw like the hexagon socket screw.

EX. 2



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

EX. 3



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

3-1 Overview

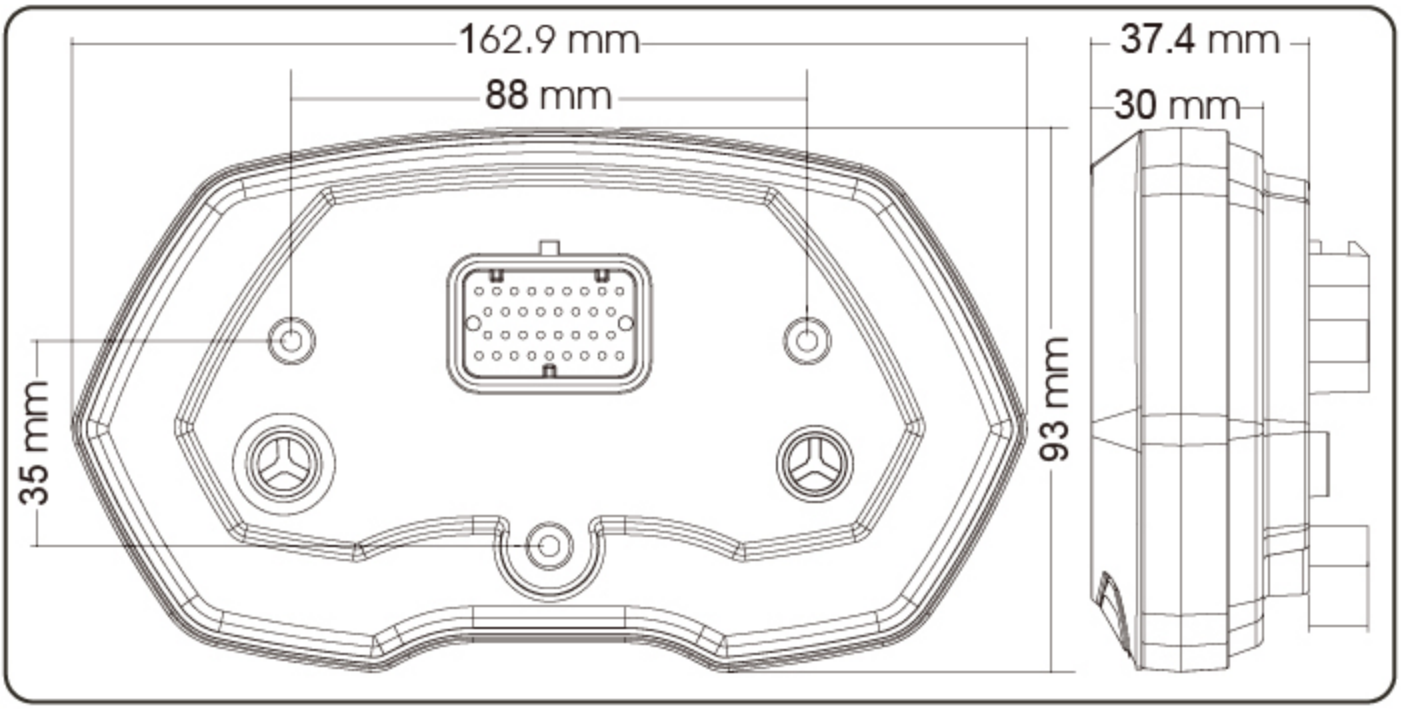
●In the main screen, press the button to choose the function combination you want to display on the screen. The combinations are as follow:
Trip A,Trip B,Total Engine Running Time,Hour meter A、B,MAX record (Speed / RPM / Temperature)

●Lean angle and Acceleration settings screen.

●Power test screen

●The functions in the settings screen are in the following order:
Calender settings, Clock settings, unit settings, Backlight settings,The tire circumference and sensing point settings, Speed warning settings, Gear learning settings, RPM input pulse, signal impulse settings, Level Digital tachometer settings The RPM shift light settings, Over heating warning (Water / Oil temperature) settings, Low thermometer warning, Fuel resistance settings, Low Fuel warning, Voltage warning, Lean angle warning,Target speed timer,Target distance timer, Info, and ODO settings.

3-2 Meter size



3-3 Overview

RPM shift light (Red、Yellow)
●Setting range：1,000 ~ 20,000 RPM
●Setting unit：100 RPM。

Ambiant temperature
●Display range：-10 ~ 20℃
(40 ~ 68°F)
●Display unit：1℃(1°F)

Gear Meter (Learning)
●Display range：N、1~ 9 or
No Display

Clock
●Display range：24 H

Thermometer (Water、Oil)
●Display range：
0 ~ 250 °C (32.0 ~482 °F)
●Display unit：
＜100 °C (°F) 0.1°C (°F)≧
100 °C (°F) 1°C (°F)

Volt
●Setting range：
DC 8.0 ~ 18.0 V
●Setting unit：0.1 V

Indicator light color
●Oil (Red)
●High beam (Blue)
●Neutral (Green) N
●L Turn signal (Green)
●Voltage warning (Red)
●Water temperature (Red)
●EOBD (Amber)
●Oil pressure (Red)
●R Turn signal (Green)
●RPM shift light (Red、Yellow)

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

Max RPM record
●Display range：0 ~ 20,000 RPM
●Display unit：1000 RPM。

Top temperature
●Display range：0 ~ 250.0 °C (32.0 ~482.0 °F)

Tachometer Level
●Display range：0 ~ 10,000、12,000、15,000、18,000、20,000 RPM

Fuel Level
●Display range：6 Levels
●Display unit：
16.6 % each segment

Thermometer (Water) Level
●Display range：6 Levels
●Display unit：
Start from 0 °C with each
interval 20 °C

Volt meter Level
●Display range：6 Levels
●Display unit：Start from
11.5v with each interval 0.5v

Thermometer (Oil) Level
●Display range：6 Levels
●Display unit：Start from
0 °C with each interval 20 °C

Backlight Dimmer Sensor (do not cover)

Odometer
●Display range：0 ~ 99,999 km (mile) resets automatically after
99,999 km (mile)
●Display unit：1 km (mile)

Trip meter A、B
●Display range：0 ~ 999.9 km (mile) resets automatically after
999.9 km (mile)
●Display unit：0.1 km (mile)

Total Engine Running Time
●Display range：0~99,999 H
●Display unit：1 H

Hour meter A、B
●Display range：0 ~ 999.9 H
●Display unit：:0.1 H

3-4 Specifications

●Speedometer	Display range : 0~360 km/h (0~225 MPH) Display unit : 1 km/h (MPH) for alternative
○Display internal	<0.5 Second
○Odometer	Display range : 0 ~ 99,999 km (mile) reset automatically after 99,999 km (mile) Display unit : 1 km (mile)
○Trip meter A、B	Display range : 0 ~ 999.9 km (mile) reset automatically after 999.9 km (mile) Display unit : 0.1 km (mile)
○Speeding warning light	Setting range : 30 ~ 360 km/h (19~225 MPH) Setting unit : 1 km/h (MPH)
○Top speed record	Display range : 0 ~ 360 km/h (0~225 MPH) Display unit : 1 km/h (MPH)
○Tire circumference	Setting range : 300~2,500 mm Setting unit : 1 mm • Sensnor point : 1 ~ 20
●Gear Meter(Learning)	Display range : N、1 ~ 9 or No Display
○Top Gear Record	Display range : 1 ~ 9
●Tachometer	Display range : 0 ~ 10,000、12,000、15,000、18,000、20,000 RPM
○Display internal	<0.5 Second
○RPM shift light	Setting range : 1,000 ~ 20,000 RPM Setting unit : 100 RPM
○Max RPM record	Display range : 0 ~ 20,000 RPM Display unit : 1,000 RPM。
○RPM Signal (For Fuel Injection)	Setting range : 0.5, 1 ~ 24
●Total Engine Running Time	Display range : 0 ~ 99,999 H Display unit : 1 H
○Hour meter A、B	Display range : 0 ~ 999.9 H
●Digital Volt meter	Display range : DC 8.0 ~ 18.0 V Display unit : 0.1 V
○Level Volt meter	Display range : 6 Level Display unit : Start from 11.5 V with each interval 0.5 V
○Low Voltage waring	Warning Range: Warning light will be activated when current voltage is equal or lower than setting value.
●Backlight brightness	Display range : 1 ~ 5(Darker)~ 5 ~ 5 (Brighter) Auto
●Lean angle	
○Lean angle warning	Warning Range: Warning light will be activated when current angle is equal or greater than setting value.
●Acceleration	Display range : 0 ~ 2.0 G for all front, rear, left and right direction. Display unit : 0.1 G
●Target speed timer	Display range : 30 ~ 360 km/h (20 ~ 220 MPH) Setting unit : 5 km/h (MPH)
●Target distance timer	Display range : 50 ~ 1,500 M (1/32 ~ 30/32 mile) Setting unit : 50 M (1/32 mile)

○Thermometer	Display unit : °C & °F for alternative
○Digital Thermometer	Display range : 0 ~ 250.0 °C (32.0 ~ 482.0 °F) Display unit : 0.1°C (°F)
○Level Thermometer	Display range : 6 Level Display unit : Start from 0°C with each interval 20°C.
○Temperature warning (Water & Oil)	Setting range : 60 ~ 250.0 °C (140.0 ~ 482.0 °F) Setting unit : 1°C (°F)
○Top temperature	Display range : 0 ~ 250.0 °C (32.0 ~ 482.0 °F)
●Ambient temp.	Display range : -20 ~ 60°C (-4.0 ~ 140.0°F) Display unit : 1°C (°F)
○Low thermometer waring	Setting range : -20 ~ 10°C (14 ~ 68°F) Setting unit : 1°C (°F)
●Level Fuel	Display range : 6 Level Display unit : 16.6 % each segment
○Fuel resistance setting	Display range : 100 Ω、250 Ω、270 Ω、510 Ω、1200 Ω、SW、Learning
○Low Fuel warning	Display range : 0 ~ 3 levels Setting unit : 1 levels Symbol will flash when reading value is lower equal to the setting value.
●Calender	Display range : 2,000 ~ 2,099 Year Display range : 1 ~ 12 Month Display range : 1 ~ 31 Day
●Clock	Display range : 24 H
●Top speed timer	The record including Speed : 0~360 km/h (0~225 MPH) Distance : 0 ~ 999 M (0~3,280 feet) RPM : 0 ~ 20,000 RPM Display Range Timer : 0~9'59"99
●Supply voltage	DC 12 V
●Effective temperature range	-10 ~ +60 °C
●Meter standard	JIS D 0203 (S2)
●Meter size	163 x 93 x 47.4 mm
●Meter weight	Around 240 g
Indicator light color	Oil (Red) High beam (Blue) Neutral (Green) N L Turn signal (Green) Voltage waring (Red) Water temperature (Red) EOBD (Amber) Oil pressure (Red) R Turn signal (Green) RPM shift light (Red、Yellow)

NOTE Design and specifications are subject to change without notice.

3-5 Overview (Lean angle and Acceleration)

Lean angle
- ●Display range : 0° ~ 60° for both left and right
- ●Display unit : 1°

Lean angle warning
- ●Warning range: Warning light will be activated when current angle is equal or greater than the setting value.

Acceleration
- ●Display range : 0 ~ 2.0 G for all front, rear, left and right
- ●Display unit : 0.1G

3-5-1 Lean angle and Acceleration settings

●In the main screen, Press the Select button and the Adjust button for 3 seconds to enter into the Lean angle and Acceleration settings screen.

●Lean angle settings screen.
○Press the Adjust button for 3 seconds to enter the lean angle warning settings screen

●Press the Select button for 3 seconds to enter in the angle settings.
○Press down the Select button one time to make the angle level set.

○Press down the Select button for 3 seconds to return to the original level settings.

3-6 Overview (Target Speed /Distance/Top Speed)

Target speed function
●Speed record : 0 ~ 360 km/h (0 ~ 225 mph)
●RPM record : 0 ~ 20,000
●Time record : 0'00"00 ~ 9'59"99
●Number of Recordings : 8 times

Top speed function
Speed record : 0 ~ 360 km/h (0 ~ 225 mph)
●RPM record : 0 ~ 20,000
●Distance : 0 ~ 999 m (0 ~ 3280 ft)
●Number of Recordings : 8 times

Target distance function
●Speed record : 0 ~ 360 km/h (0 ~ 225 mph)
●RPM record : 0 ~ 20,000
●Time record : 0'00"00 ~ 9'59"99
●Number of Recordings : 8 times

Test screen

3-6-1 Target Speed /Distance/Top Speed settings

●In the main screen, Press the Select button and the Adjust button for 2 seconds to enter the Target Speed /Distance/ Top Speed settings screen.

●Target Speed, press Select one time to enter Target Distance function.

○Press the Adjust button for 3 seconds to enter the Target Speed Timer settings screen.

●Target Distance Timer, press Select button one time to enter Target Distance Timer.

○Press the Adjust button for 3 seconds to enter Target Distance Timer settings.

●Top Speed Timer, press Select one time to enter Target Distance Timer.

○Press the Adjust button for 3 seconds to enter the Top Speed Timer settings.

3-6-2 Target speed test

●In the results screen click the adjust button to enter into the main screen.

◇Press the Adjust button for 3 seconds to enter into the quick settings screen.

NOTE For more information of quick settings refer to 4-16 target speed recorded time

NOTE To clear all the recorded target distance data, please refer to 3-5-1 to get more information.

NOTE Start the test when the bike is fully stopped.

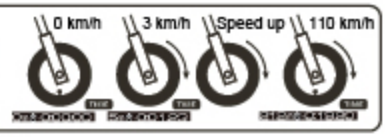
⚠WARNING! Use this function on racetracks to avoid accidents.

⚠ Press the Adjust button to stop recording.

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

P.S.

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), result screen will apear.

●Results screen

3-6-3 Target distance timer

●In the results screen click the adjust button to enter into the main screen.

◇ Press the Adjust button for 3 seconds to enter into the quick settings screen.

NOTE For more information on quick settings refer to 4-16 target distance data time.

NOTE To clear all results of target distance data time,Please refer to 3-5-1 to get more information.

NOTE Start the test when the bike is fully stopped.

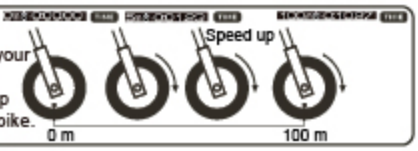
⚠WARNING! Use this function on racetracks to avoid accidents.

⚠ Press the Adjust button to stop recording.

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

P.S.

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

●Once you reach your target distance, (100 M . 2/32 mile), the timer will stop (10"27 second).

●Once the speed decreases to 0 km/h (mph), the results screen will appear.

●Results screen

3-6-4 Top speed timer

●Under result screen click the adjust button to enter into the main screen.

○Press down the Adjust button for 3 seconds to enter into the quick setting screen.

NOTE For more information on quick settings refer to 4-18 target distance data time.

NOTE Please start the test when the bike stops

The record display screen

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

⚠ Press the Adjust button to stop the timer.

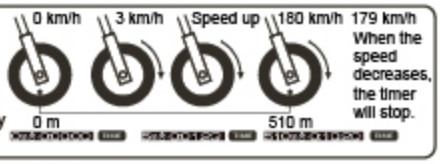
start test

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

NOTE Top speed timer
- ●Speed record : 0 ~ 360 km/h (0 ~ 225 mph)
- ●Distance : 0 ~ 999 m (0 ~ 3280 ft)
- ●RPM record : 0 ~ 20,000
- ●Number of Record : 8 times

P.S.

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



●Speed up

●When you reach the top speed (180 km/h), the meter will stop counting the distance (510 M), and time (10"20 seconds).

●When speed deacreses to 0 km/h (mph), the results screen will appear.

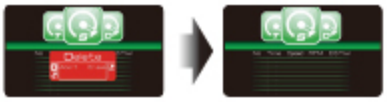
●Results screen

3-6-5 Deleting Target Speed/Distance/Top Speed data

●Data for Target Speed Timer, press Select 3 seconds to enter the data deleting screen.

○Press Adjust for 3 seconds to display data deleting screen.

○Press Select to exit the data deleting screen.



●Data for Target Distance Timer , press Select 3 seconds to enter the data deleting screen.

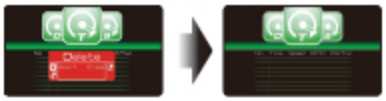
○Press Adjust for 3 seconds to display the data deleting screen.

○Press select to exit.

●Data for Top Speed Timer, press Select for 3 seconds to display the data deleting screen

○Press Adjust 3 seconds to display the data deleting screen.

○Press Select to exit



3-7 Buttons functions

Adjust button

- In the main screen, press the Adjust button to choose one of the following: odometer, trip A, trip B, Total Engine Running Time,Hour meter A、B,Max record (Speed / RPM / Thermometer)
- Settings Screen - Enter to the next function screen, or select the digit you want to set.

Adjust button for 3 seconds

- In the main screen, press the Adjust button for 3 seconds to choose the display of R-BAR (Fuel/Water/No display)、L-BAR(Volt/Oil temp /No display) screen.
- Settings Screen - Enter into Options or Function Settings Screen.
- In the settings screen, press the Adjust button for 3 seconds to go back to the main screen.

Select button

- In the main screen, press the Select button to choose the display of water thermometer、oil thermometer volt screen.
- Settings Screen - Back to the previous Options screen.
- Settings Screen - Select the digit you want to set.

Select button for 3 seconds

- In the main screen, press the Select button for 3 seconds to choose the display of water thermometer、oil thermometer volt settings screen.
- In the settings screen, press the Select button for 3 seconds to back to the main screen.

Press and hold the Select button

- In the settings screen, hold the select button to add the setting value.

Adjust+Select button

- In main screen, press the Adjust+Select buttons to choose the display of Lean angle and Acceleration and the power test screen .

Adjust+Select X 3 seconds

- In main screen,press the Adjust+Select buttons for 3 seconds to go back to the main settings screen.

3-8 Main function instructions

- In the main screen, Press the Adjust+Select buttons one time to enter the Lean angle and Acceleration settings screen.
  - ○Detail instructions from the Main screen to enter the Settings screen

- Lean angle and Acceleration, Press the Adjust +Select button one time to enter into the power test screen.
  - ○Detailed instructions for Lean Angle and Acceleration.

- Power test, Press down the Adjust+Select buttons one time to go back to the main screen.
  - ○Detailed instructions for Racing Mode screen

- Back to the main screen.

3-9 Adjust button function instructions

- In the odometer screen, press the Adjust button once to switch the function from odometer to trip A.

- In the trip A screen, press the Adjust button once to switch the function from odometer to trip B.
  - ○Hold the Adjust button for 3 seconds to reset the trip A.

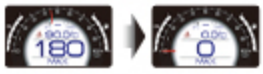
- In the trip B screen, press the Adjust button to switch from trip B to total hour meter.
  - ○Hold the Adjust button for 3 seconds to reset the trip B

- In the total hour meter screen, Press the Adjust button to switch from total hour meter to hour meter A.

- In the hour meter A screen, press the Adjust button to switch from hour meter A to hour meter B.
  - ○Hold the Adjust button for 3 seconds to reset the hour meter A.

- In the hour meter B screen, press the Adjust button to switch from hour meter B to Max record.
  - ○Hold the Adjust button for 3 seconds to reset the hour meter B.

- In the Max record screen, press the Adjust button to switch from Max record back to the odometer.
  - ○Hold the Adjust button for 3 seconds to reset the Max record.



- Odometer screen.

3-10 R-BAR (Fuel / Water / No display) and L-BAR (Volt / Oil temp / No display)

•In the odometer screen, press the Adjust button for 3 seconds to switch the R-BAR (Fuel / Water / No display) and L-BAR (Volt / Oil temp /No display)

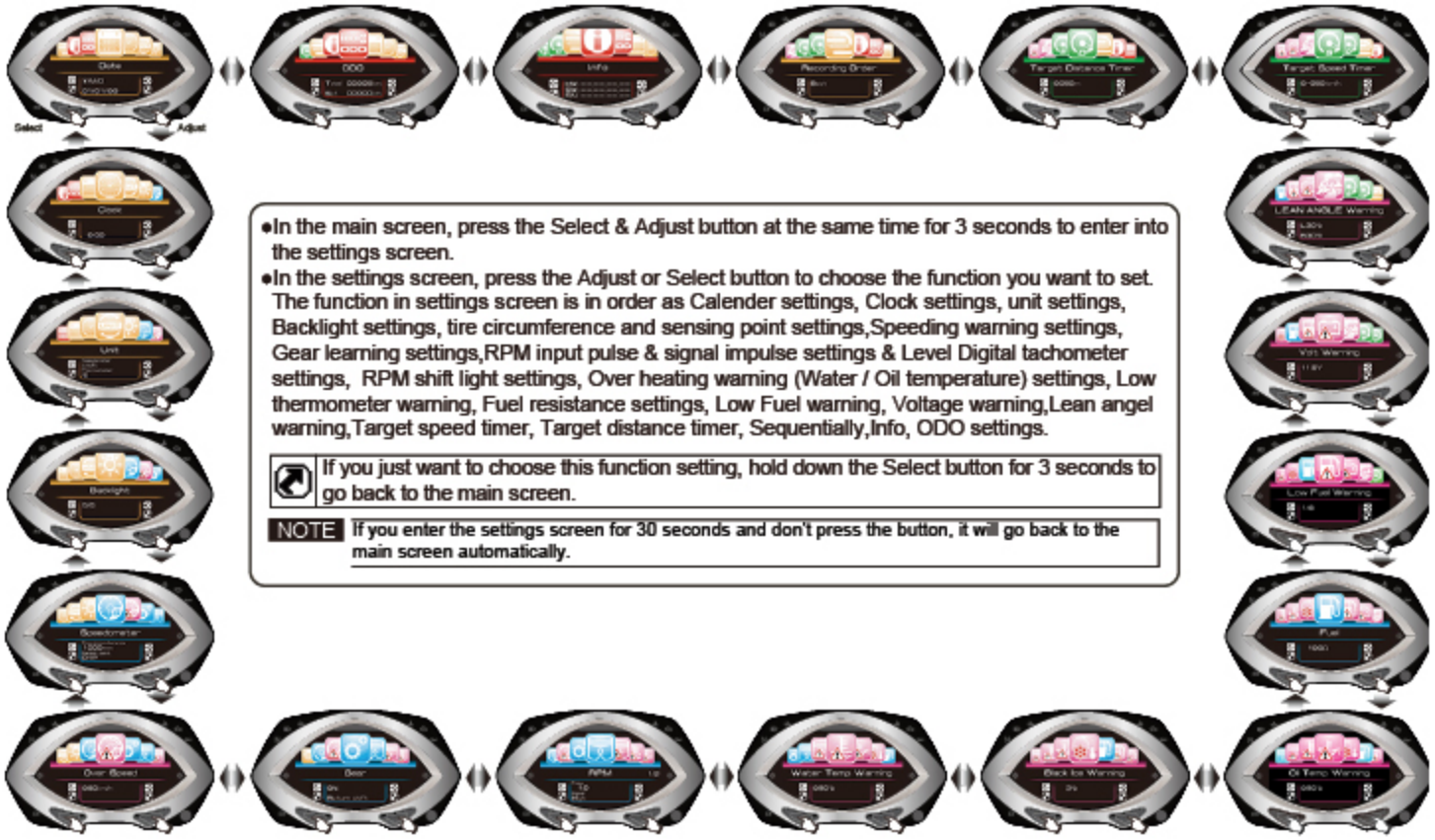
NOTE To set up this function you must be in the ODO screen.

•Press the Adjust button to enter the R-BAR (Fuel / Water / No display).
•Press the Select button to enter the L-BAR (Volt / Oil temp / No display).

•Press the Select button for 3 seconds or don't press the button, and it will go back to the main screen either way, automatically.

•Back to the main screen.

3-11 Switching the setting screens



•In the main screen, press the Select & Adjust button at the same time for 3 seconds to enter into the settings screen.
•In the settings screen, press the Adjust or Select button to choose the function you want to set. The function in settings screen is in order as Calender settings, Clock settings, unit settings, Backlight settings, tire circumference and sensing point settings,Speeding warning settings, Gear learning settings,RPM input pulse & signal impulse settings & Level Digital tachometer settings, RPM shift light settings, Over heating warning (Water / Oil temperature) settings, Low thermometer warning, Fuel resistance settings, Low Fuel warning, Voltage warning,Lean angel warning,Target speed timer, Target distance timer, Sequentially,Info, ODO settings.

If you just want to choose this function setting, hold down the Select button for 3 seconds to go back to the main screen.

NOTE If you enter the settings screen for 30 seconds and don't press the button, it will go back to the main screen automatically.

4-1 The calendar settings

•Press the Select button for 3 seconds to enter in the calendar settings screen.

•EX. You want to set the calendar to M/D/Y.
•Press the Select button to choose the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range：Y/M/D、M/D/Y、D/M/Y

•EX. Now the setting is changed from Y/M/D to M/D/Y.
•Press the Adjust button to enter the calendar settings screen.

•EX. You want to set the calendar (Year) to 15.
•Press the Select button to choose the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range：00 ~ 99 (2000 ~ 2099)

•Press the Adjust button to move to the digit you want to set.

•EX. Now the setting is changed from 00 to 15.
•Press the Select button to enter the calendar settings screen.

●Press the Adjust button to move to the digit you want to set.

●EX. You want to set the calendar (Month) to 06.
●Press the Select button to choose the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range：1 ~ 12

●Press the Adjust button to move to the digit you want to set.

●EX. You want to set the calendar (Day) to 10.
●Press the Select button to choose the digit you wantto set.

⚠ Now the setting value is flashing!

NOTE Setting range：1 ~ 31

●EX. Now the setting is changed from 01 to 10.
●Press the Adjust button to go back to the calendar screen.

●The calendar screen.

4-2 Clock (Hour / Minutes) settings

●Press the Select button for 3 seconds to enter the clock (Hour) settings screen.

●EX. You want to set the Clock (Hour) to 10.
●Press the Select button to choose the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range：24 H

●EX. Now the setting is changed from 0 to 10.
●Press the Adjust button to enter the Clock (Minutes) settings screen.

●EX. You want to set the Clock (Minutes) to 10.
●Press the Select button to choose the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range：0~59

●Press the Adjust button to move to the digit you want to set.

●EX. Now the setting is changed from 00 to 10.
●Press the Adjust button to go back to the Clock (Hour / Minutes) settings screen.

●The Clock (Hour / Minutes) settings screen.

4-3 Speed / Temperature unit settings

●Press the Adjust button for 3 seconds to enter the Speed / Temperature unit settings screen.

●EX. You want to set the MPH.
●Press the Select button to choose the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range：km/h、km (MPH、mlie)

NOTE Setting The odometer & trip meter will change together with the speed unit.

●EX. The Speed unit setting is changed from km/h to MPH.
●Press the Adjust button to enter the Temperature unit settings

●EX. You want to set the ℉.
●Press the Select button to choose digits you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range：℃ (℉)

●EX. Now the setting is changed from ℃ to ℉.
●Press the Adjust button to go back to the Speed / Temperature unit settings screen.

●The Speed / Temperature unit settings screen.

4-4 Backlight settings

•Press the Adjust button for 3 seconds to enter the Backlight settings screen.

•EX. You want to set the brightness 3/5 (60%).
•Press the Select button to choose the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range:1-5 (Darkest) ~ 5-5 (Brightest), 5 different levels available. Setting unit:20% per level.The backlight brightness will change immediately after you set the value.

•EX. Now the setting is changed from 5/5 (100%) to 3/5 (60%).
•Press the Adjust button to go back to the backlight settings screen.

•The Backlight settings screen.

4-5 The tire circumference and sensor point settings

•Press the Adjust button for 3 seconds to enter into the tire circumference and sensor point settings screen.

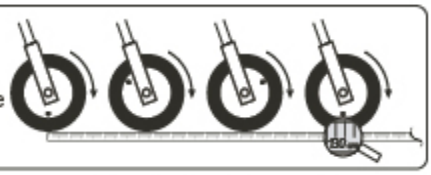
•EX. The tire circumference is 1,300 mm.
•Press the Adjust button to move to the digit you want to set.

⚠ Now the setting value is flashing!

⚠CAUTION!
•Please measure the tire circumference (the tire you will install the sensor on) and make sure the number of magnet sensor point (You could install the magnet into the disc screw or the sprocket screw.)
•The speed displayed on the meter will be affected by the settings, make sure the setting number is correct before you make the final setting.

P.S.

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



•Press the Select button to choose the you want to set.

•EX. Now the setting is changed from 1,000 mm to 1,300 mm
•Press the Adjust button to enter the sensor point settings screen.

•EX. You want to set the sensor point to 06 P.
•Press the Adjust button to move to the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range : 01 P~ 20 P

•Press the Select button to choose the digit you want to set.

•EX. Now the setting is changed from 01 P to 06 P.
•Press the Adjust button to go back to the tire circumference and sensor point settings screen.

•The tire circumference and sensor point settings screen.

4-6 Speed warning settings

•Press the Select button for 3 seconds to enter the Speed warning settings screen.

•EX. You want to set the Speed warning settings 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 (19~225 MPH)

•Press the Select button to choose the digit you want to set.

•EX. Now the setting is changed from 60 km/h to 80 km/h.
•Press the Adjust button to go back to the Speed warning screen.

•The Speed warning screen.

4-7 Gear Meter (Learning) settings

•EX. You want to set the Gear Meter (Learning) settings.
•Press the Select button to choose the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting Range: Enter the Learning Mode, and learn the Gear position according to the speed and RPM

•Press the Adjust button to go back to the Gear Meter (Learning) settings screen.

•The Gear Meter (Learning) screen.

4-7-1 Gear-Learning Settings

•Gear-Learning Settings

⚠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! 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

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

•The Gear Meter (Learning) 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

4-8 RPM input pulse & signal impulse & Level Tachometer settings

•Press the Adjust button for 3 seconds to enter into the RPM input pulse / Signal impulse / Level Tachometer settings screen.

•EX. You want to set the RPM input pulse to 2 (4 Stroke, 4 piston).
•Press the Select button to choose the you digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range：P-0.5、1 ~ 24

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 every360 degree, so the setting should be the same as the bike with 2-cycle and one piston engine.

•EX. The RPM input pulse settings is changed from1.0 to 2.0.
•Press the Adjust button to enter the Signal impulse settings screen.

•EX. You want to set the Signal impulse at Lo.
•Press the Select button to choose the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range：Hi / Lo

•Press the Adjust button to enter the Level tachometer settings screen.

•EX. You want to set the Level tachometer to 12,000 RPM.
•Press the Select button to choose the digit you want to set.0

⚠ Now the setting value is flashing!

NOTE Setting range：10,000、12,000、15,000、18,000、20,000 RPM

●EX. Now the setting is changed from 10,000 RPM to 12,000 RPM.
●Press the Adjust button to go back to the RPM input pulse & signal impulse & Level Tachometer settings screen.

●The RPM input pulse / Signal impulse / Level Tachometer settings screen.

4-9 The RPM shift light (Red / Yellow) settings

●Press the Adjust button for 3 seconds to enter the RPM shift light settings screen.

●EX. You want to set the RPM shift light (Red) to 9,500 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 ~ 20,000 RPM

●Press the Select button to choose the digit you want to set.

●Press the Adjust button to enter the shift light (Red) settings.

●EX. You want to set the RPM shift light (Red) to Flashing.
●Press the Select button to choose digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range : Steady / Flashing

●EX. Now the setting is changed from shift light (Red-Steady) to shift light (Red-Flashing).
●Press the Adjust button to go back to the shift light (Red) .

●EX. You want to set the RPM shift light (Yellow) to 8,500 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 ~ 20,000 RPM

●Press the Select button to choose the digit you want to set.

●Press the Adjust button to enter the shift light (Yellow) settings.

●EX. You want to set the RPM shift light (Yellow) to Flashing.
●Press the Select button to choose digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range : Steady / Flashing

●EX. Now the setting is changed from shift light (Yellow-Steady) to shift light (Yellow-Flashing).
●Press the Adjust button to go back to the shift light screen.

●The RPM shift light (Red / Yellow) settings screen.

4-10 Over heat warning light (Water temperature) settings

●Press the Adjust button for 3 seconds to enter the Over heat warning light (Water temperature) settings screen.

●EX. You want to set the Over heat warning light (Water temperature) to 95 °C.
●Press the Adjust 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)

●Press the Select button to choose the digit you want to set.

●EX. Now the setting is changed from 90 °C to 95 °C
●Press the Adjust button to go back to the Over heat warning light (Water temperature) settings screen.

●The Over heat warning light (Water temperature) settings screen.

4-11 Over heat warning light (Oil temperature) settings

●Press the Adjust button for 3 seconds to enter the Over heat warning light (Oil temperature) settings screen.

●EX. You want to set the Over heat warning light (Oil temperature) at 95 °C.
●Press the Adjust button to move to the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range：60 ~ 120°C (140 ~ 248 °F)

●Press the Select button to choose the you want to set.

●EX. Now the setting is changed from 90 °C to 95 °C
●Press the Adjust button to go back to the Over heat warning light (Oil temperature) settings screen.

●The Over heating warning light (Oil temperature) setting screen.

4-12 Low thermometer warning settings

●Press the Adjust button for 3 seconds to enter the Low thermometer warning setting screen.

●EX. You want to set the Low thermometer warning setting at 0 °C.
●Press the Select button to choose the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range：-10 ~ 20 °C (40 ~ 68°F)

●EX. Now the setting is changed from 90 °C to 95 °C
●Press the Adjust button to go back to the Low thermometer warning settings screen.

●The Low thermometer warning settings screen.

4-13 Fuel gauge resistance settings

●Press the Adjust button for 3 seconds to enter into the Fuel gauge resistance settings screen.

●EX. You want to set the Fuel gauge resistance to 510 Ω.
●Press the Select button to choose the digit you want to set.

⚠ Now the default setting is flashing

NOTE The fuel gauge resistance setting range ：USER、100 Ω、250 Ω、270 Ω、510 Ω、1200 Ω、SW (turn off)

NOTE Without connecting to fuel gauge sesnor, fuel level will not be diplayed

⚠CAUTION! When the fuel setting is set to "SW", the fuel level symboi will light up when fuel level signal wire is connected to the negative (-) wire.

●Ex. Now the Fuel gauge resistance from USER to 100 Ω.
●Press the Adjust button to go back to the Fuel gauge resistance settings screen.

●The Fuel gauge resistance settings screen.

4-13-1 Fuel Resistance Settings

●Under the phase of Customer, start Fuel Resistance Settings
●Press Adjust to enter Fuel Resistance Settings

⚠ Now the default setting is flashing

NOTE Auto Detection or Manual Settings can be choosed.

⚠CAUTION! Before setting, make sure the fuel is set in the no-fuel condition to avoid error detection.

●Press Select to enter into the Low Fuel Resistance Settings screen.

●Press Adjust to enter into the Full Fuel Resistance Setting screen
●EX.To set Full Fuel Resistance as Auto.

NOTE Auto-Detection of Fuel Resistance with full fuel.

●Press the Adjust button to enter the highest position fuel level resistance auto detection screen.

●Press Adjust to enter Low Fuel Resistance Manual settings
●EX.To set Fuel Resistance as Auto.

NOTE Auto Detection of Fuel Resistance in the no-fuel condition

NOTE Please make sure the setting is in the no-fuel condition.

⚠CAUTION! Stop the motor and wait for a fewseconds for the fuel to be stableand then auto-detect the FuelResistance

⚠CAUTION! For Manual Detection, please check the maintenance booklet for the Fuel Resistance value.

●Press the Adjust button to go back to the Fuel gauge resistance settings screen.

●The Fuel gauge resistance settings screen.

4-14 Low Fuel warnings

●Press the Adjust button for 3 seconds to enter the Low Fuel warning settings screen.

●EX. You want to set the Low Fuel warning to 3/6.
●Press the Select button to choose the digit you want to set.

⚠ Now the default setting is flashing

NOTE Setting range：0 ~ 3 levels
Symbol will flash when the reading value is lower or equal to the setting value.

●Ex. Now the Low Fuel warning from 1 to 3.
●Press the Adjust button to go back to the Low Fuel warning settings screen.

●The Low Fuel warning settings screen.

4-15 Volt warning level settings

●Press the Adjust button for 3 seconds to enter the Volt warning level settings screen.

●EX. You want to set the Volt warning level setting to 12.5 V.
●Press the Adjust button to move to the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range：8.0~18.0 V

●Press the Select button to choose the digit you want to set.

●EX. Now the setting is changed from 11.5 V to 12.5 V.
●Press the Adjust button to go back to the Volt warning level settings screen.

●The Volt warning level settings.

4-16 Lean angle (L/R) warning settings

•Press the Adjust button for 3 seconds to enter the Lean angle (L/R) warning settings screen.

•Press the Adjust button to move to the digit you want to set.

•EX. Now the setting is changed from 30° to 50°
•Press the Adjust button to enter the Lean angle (R) settings screen.

•EX. You want to set the Lean angle (R) warning setting to 60°.
•Press the Select button to choose the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Settings Range: 5 - 60 Degree, when actual value is greater (or equal) than the setting value, the symbol will flash as a warning.

•Press the Adjust button to move to the digit you want to set.

•Press the Adjust button to go back to the Lean angle (L/R) warning settings screen.

•The Lean angle (L/R) warning settings.

4-17 Target speed timer test settings

•Press the Adjust button for 3 seconds to enter the Target speed timer test setting screen.

•EX. You want to set Target speed timer test settings to 80 km/h.
•Press the Select button to choose the digit you want to set.

⚠ Now the setting value is flashing!

NOTE Setting range : 30 ~ 360 km/h (20 ~ 220 MPH)

•EX. Now the setting is changed from 50 km/h to 80 km/h
•Press the Adjust button to go back to the Target speed timer test settings screen.

•The Target speed timer test settings.

4-18 Target distance timer test settings

•Press the Adjust button for 3 seconds to enter the Target distance timer test settings screen.

•EX. You want to set Target distance timer test setting to 100 m.
•Press the Select button to choose the digit you want to set.

⚠ Now the setting value is flashing!

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

•EX. Now the setting is changed from 50 m to 100 m.
•Press the Adjust button to go back to the Target distance timer test settings screen.

•The Target distance timer test settings.

4-19 POWERTEST Score Sequent Settings

●Press the Adjust button for 3 seconds to enter the POWERTEST Score Sequent Settings.

●EX. Set the POWERTEST Score Sequent to Best.
●Press the Select button to move to the digit you want to set.

●EX. Now the setting is changed from Sequence to Best.
●Press the Adjust button to go back to the POWERTEST Score Sequent settings screen.

●POWERTEST Score Sequent Settings screen.

4-20 Info

●Program INFO

4-21 Meter Odometer display

●Press the Adjust button for 3 seconds to enter into the Meter Odometer display screen.

●EX. The internal odometer display is 5 km.

⚠ This display is only for viewing current mileage on the meter.

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

●EX. Set the External odometer to 10,000 km.
●Press the Select button to move to the digit you want to set.

⚠ Now the setting value is flashing!

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

●EX. Now the setting is changed from 0 km to 10,000 km.
●Press the Adjust button to go back to the Mete Odometer display settings screen.

●The Meter Odometer screen.

5 Trouble shooting

The following situationS do not indicate malfunction of the meter. Please check the following before taking it in for repairs.

Trouble	Check item	Trouble	Check item
The meter doesn't work when the power is on.	• The power doesn't supply to the meter. → make sure the wiring is connected. The wiring and fuse are not broken. →The battery is broken or the battery is too old to supply enough power DC 12V to make the meter work.	The clock is incorrect. The odometer and trip meter are not accumulated or accumulated wrong data. When switch is off, the needle doesn't return to 0.	• It is possible that the positive wire is connected wrong. →Please check if the red positive wire is connected to the permanent power on battery and if the brown positive wire is connected to the key on positive pole. • It is possible that the permanent power wire is not connected well. →Please check the red positive wire is connect well or not.
The meter shows wrong information.	• Check the voltage of your battery and make sure the voltage is over DC 12V		
Speed does not appear or appears incorrectly.	•Make sure the speed sensor is connected correctly. •Check the tire-size settings.	Temp does not appear or appears incorrectly. Fuel gauge does not appear or appears incorrectly.	•Check the sensor. →Is the wiring broken or falling off ? •Check your fuel tank. →Is there any fuel in the tank ? •Check the wiring. →Did you connect the wiring properly ? •Check the setting.
Tachometer does not appear or appears incorrectly.	•Check if the RPM sensor wiring is connected correctly. •Check if the spark plug is R type or not. If not, please replace the spark plug with the R type spark plug. •Check your settings.		