KOSO Feel The Speed

INSTRUCTIONS

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

⚠ Attention!

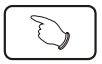
- For installation, please follow the steps described. Any damage caused by wrong installation shall be imputed to the users.
- To avoid a short circuit from occuring do not pull or modify the wires during installation.
- Do not disassemble or change any parts. Opening and dissassembling this unit will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

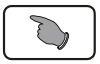
◎ Symbol description:

NOTE

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

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

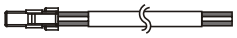

HOLD THE BUTTON ONE SECOND


HOLD THE BUTTON 3 SECONDS

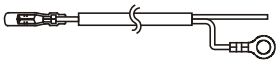
1-1 Accessory

1 LCD meter X 1

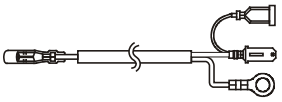
2 Power wireX1



3 RPM wire set (A TYPE) X 1

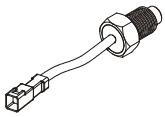


4 RPM wire set B TYPE X 1

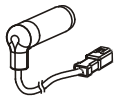


5 Temp sensor wire set X 2

6 PT 1/8water temp sensor X 2



7 Reed switch speed sensor X 1



8 D6 X 5L mm magnet X 6

9 M8/ S type speed sensorbracket X 1

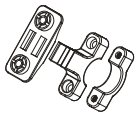
10 M10/ S type speed sensorbracket X 1

11 M5X5L Hexagon socket screw X 2

12 2.5 mm spanner X 1

13 4 mm spanner X 1

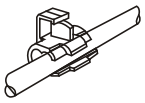
14 Meterbracket X1



15 M5 washerX 2

16 M5 X 15L screw X 2

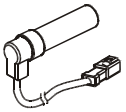
17 Mid-way connect X 2



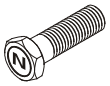
18 M5 x 12L screw X 2

1-2 Option accessory

1 Active speed sensor

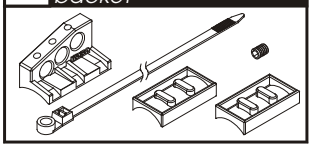


2 Disc magnet screw

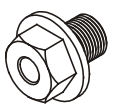


5/16-18 X 22.1L
M5 X P0.8 X 12L
M6 X P1.0 X 12.6L
M6 X P1.0 X 19.7L
M6 X P1.0 X 24L
M8 X P1.25 X 22.5L M8 X P1.25 X 27.5L
M8 X P1.25 X 29L M10 X P1.25 X 28.3L

3 L TYPE speed sensor backet

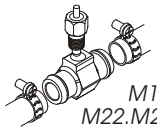


4 Oil temp sensor adapter



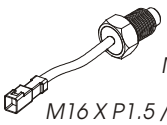
M12 X P1.5 X 15L
M14 X P1.25 X 15L
M14 X P1.5 X 15L
M16 X P1.5 X 15L
M18 X P1.5 X 15L
M20 X P1.0 X 15L
M20 X P1.5 X 15L

5 Water temp sensor adapter



M14
M16.M18
M22.M26 mm

6 Temp sensor



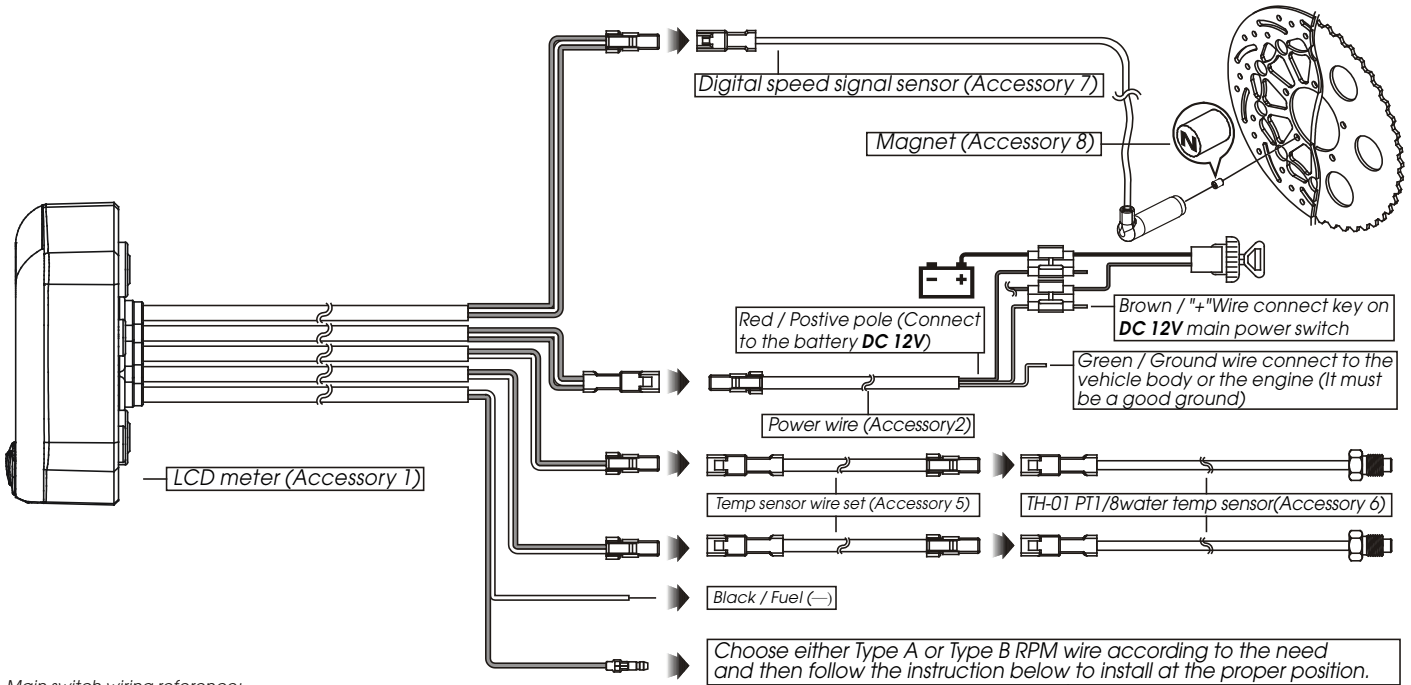
M10 X P1.0
M12 X P1.5
M14 X P1.25
M14 X P1.5
M16 X P1.5 / M18 X P1.5

7 Temp sensor wire set (2 M)

NOTE *The advantage of the active speed sensor is as following, 1. You don't need to install the magnet in the opposite position of the speed sensor. 2. You could set up the sensor signal input up to 60 points, and the speed displayed will be more accurate. Please note that the speed sensor attached in the kit is passive speed sensor, and the maximum speed signal it could read is 6 points.*

NOTE *Some of the option accessories may not sell. For the details, please contact the local distributor.*

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 differ depending on the model.

RPM wiring reference:

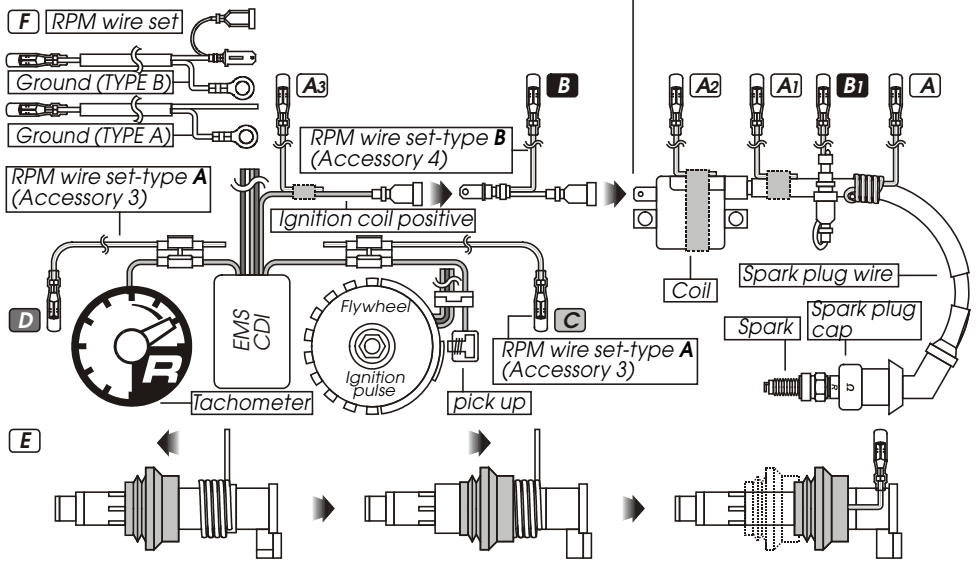
YAMAHA	Yellow / Black	BUELL	Pink
HONDA	Yellow / Green	CAGIVA	Gray / Green
SUZUKI	Yellow / Blue	DUCATI	Gray / Green
KAWASAKI	Light Blue	H-D	Pink
APRILIA	Gray / Violet	MV	Gray / Yellow
BMW	Black	TRIUMPH	Red
BENELLI	Gray / Violet		

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

Fuel indicator wiring reference:

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

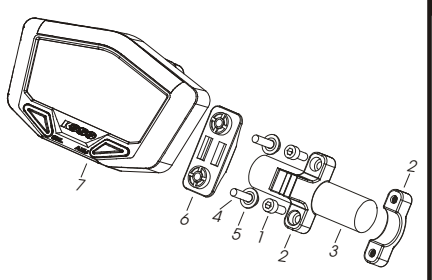


NOTE The temperature will disappear if you don't install & connect the temperature sensor with the meter.

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

⚠ The RPM wire installation
A. Wrap the RPM wire at least 5 times around the spark plug.
A1.Use tape to fix the RPM (Type A) wire onto the spark plug wire.
A2.Use tape to fix the RPM wire (Type A) on the spark plug cap.
A3.Use tape to fix the RPM wire (Type A) on the coil positive pole wire. For some models with the coil negative wire, please tape the RPM wire (Type A) on the negative wire to get the RPM signal. (For example, the YAMAHA V-max 1200)
B. Connect the RPM wire (Type B) to connect to the ignition coil positive pole.
B1. Wrap the RPM wire (type B) on the spark plug wire by connecting the male and female connector.
C.Connect the RPM wire (Type A) to the pick up.
D.Parrallel 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 of your bikes.)
E. For the models comes with the new ignition coil, please wrap the RPM wire (Type A) at least 5 times around the spark plug as the above drawing.
F. Use the method mentioned above to install the RPM wire, and then connect the ground wire to the frame body or the engine. (Please make sure that the ground is a good ground.)
For multi-ignition models, we will suggest you to get the signal on the first ignition.The best signal source will be in order as D>C>B>A, we will suggest you to check different ways if you have problems to get the RPM signal.

2-2 INSTALLATION INSTRUCTIONS.

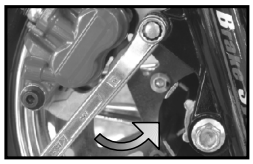


When installing, please follow the process.

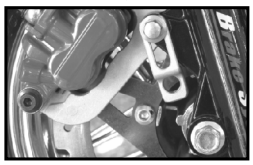
1.M5 x 12L screw x2
2.Meter bracket for handle bar
3.Fix the bracket on handle bar (7/8 inch)
4.M5 x 18l screw x2
5.M5 washer x2
6.Meter fixed board
7.Fix the meter on the board (6) With the screw (4)
8.Fix the meter and the bracket together

NOTE Adjust the meter to the best visible angle before tightening the screw

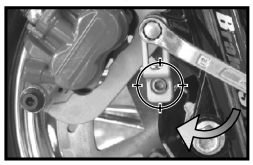
MOTO / SCOOTER S type speed sensor bracket instruction



Loose the screw on the caliper

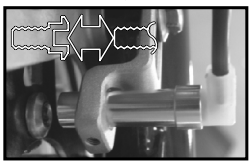


Install the S type bracket on the caliper.



Adjust the bracket to the proper angle and then screw it up. 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.

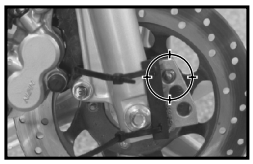
Install the speed sensor.



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

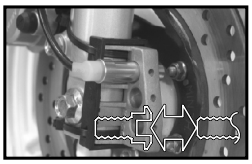
MOTO / SCOOTER L type speed sensor bracket instruction

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



Use the cable tie to fix the bracket on the front fork. 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 into the proper hole on the bracket.



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

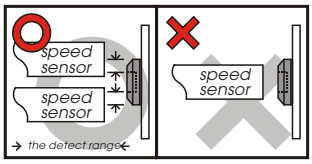
P.S

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

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

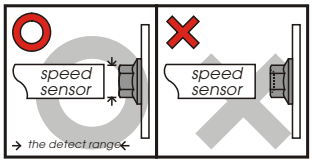
⚠ ***After installation, use your hand to turn the tire to see is everything ok. The LED on the active speed sensor will light up once the signal is detected.***

EX. 1



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

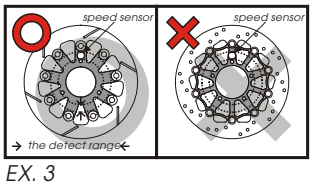
⚠ *Please don't catch the signal from the middle hole of the hexagon socket screw to avoid wrong signal.*



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.*

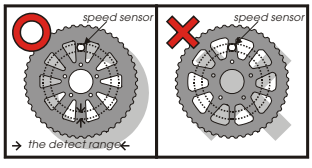
EX. 2



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

⚠ *Take 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.

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

3-1 Display instruction

The temperature alarm A/B
- Setting range: 60~250 ˚C (140~482 ˚F)
- Setting unit: 1˚C (˚F)

Speeding warning light
- Setting range: 30~360 km/h (19~225MPH)
- Setting unit: 1 km/h (MPH)

The tachometer bar range
- Display range: 10,000 15,000 20, 000 RPM

Volt meter (the external power)
- Display range: 0.0~18.0V
- Display unit: 0.1V
- When the external power is connected, it will show the voltage value directly. It will show 0.0V when the external power is disconnected.

3 stages RPM shift light
- Setting range: 5,000~20,000 RPM
- Setting unit: 100 RPM

The digital tachometer
- Display range (0~225 MPH)
- Display unit

Bar graph tachometer
- Display range: 0~20,000 RPM
- Display unit: 10 RPM

Odometer
- Display range: 0~99999 km (mile), reset automatically after 99999 km (mile)
- Display unit: 0.1 km (mile)

Trip A, B
- Display range: 0~999.9 km (mile), reset automatically after 0~999.9 km (mile)
- Display unit: 0.1 km (mile)

Total engine hour meter
- Display range: 0-999.9 H
- Display unit: 0.1 H (6 Minutes)

The temperature alarm A/B
- Setting range: 60~250 ˚C (140~482 ˚F)
- Setting unit: 1˚C (˚F)

CLOCK
- Time: 24H
- When the meter is off, it will show the seconds.

Insufficient fuel
- Display range: 0%~100%
- Display unit:
- When fuel capacity lower then 20%. The fuel display will showing 5%
- When fuel capacity higher then 20%. The fuel display on gauge will showing 10%

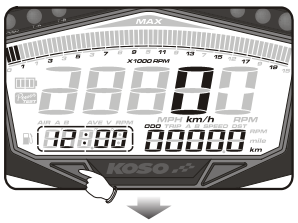
3-2 Function instruction

●Speedometer	Display rang: 0~360 km/h (0~225 MPH) Display unit: km/h & MPH for alternative
○Display internal	<0.5 second
○Odometer	Display range: 0~99999 km (mile), reset automatically after 99999 km (mile) Display unit: 1 km (mile)
○Trip meterA.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) Display unit: 1 km/h (MPH)
○Top speed record	Display range: 0~360 km/h (0~225 MPH)
○Tire circumference	Setting range: 300~2,500 mm Display unit: 1 mm Sensor point: 20
○Digital tachometer	Display range: 2,000 RPM Display unit: 10 RPM
●Bar graph tachometer	Display range: 10,000 RPM 60 segment bar graph Display unit: 166 RPM for each segment Display range: 15,000 RPM 60 segment bar graph Display unit: 250 RPM for each segment Display range: 20,000 RPM 60 segment bar graph Display unit: 333 RPM for each segment
○RPM shift light	Display range: 5,000~20,000 Display unit: 100 RPM
○Pre-shift light A/B	Display range: -500~-50,000 before the shift light Display unit: 100 RPM
○Max. RPM record	Display range: 0~20,000 RPM
○RPM input pulse	Display range: 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6
●Total engine hour meter	Display range: 0-999.9 H Display unit: 0.1 H (6 Minutes)
●Thermometer	Display unit: ˚C & ˚F for alternative
● Thermometer A, B	Display range: 0~250 ˚C (32~482˚F) Display unit: 0.1˚C (˚F)
○Display internal	<0.5 second
○Temperature alarm A, B	Display range: 60~250 ˚C 140~482 F Display unit: 1˚C (˚F)
○TOP temperature record	Setting range: 0~250 ˚C (32~482 ˚F)
●Fuel meter	Display range: 0~100% Setting range: 100Ω, 510Ω, no display
○insufficient fuel warning	Setting range: 10~50 % Setting unit: 10 %
●Volt meter	Display range: DC 0~18.0 V Display unit: DC 0.1 V
●Target speed timer	Setting range: 30~360 km/h (20~225 MPH) Setting unit: 5 km/h (MPH)
●Target distance timer	Setting range: 1/32~30/32 mile (50~1,500 M) Setting unit: 1/32 mile (50 M)
●Top speed timer	The record includes: 1.Speed: 0~360 km/h (0~225 MPH) 2.Distance: 0~999 M (0~3,280 feet) 3.RPM: 0~20,000 4.Timer: 0~9'59"99 second.
●Back light	DC 12V
●Effective temperature range	-10~+60 ˚C
●Meter standard	JIS D 0203 S2
●Meter size	100 X 60 X 20 mm
●Meter weight	Around 200 g
●Symbols	Speeding (RED) RPM shift light A (Yellow) RPM Shift light (RED) Temperature alarm A/B (RED) RPM shift light B (Orange)

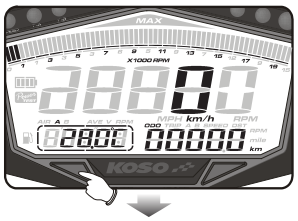
NOTE Design and specification are subject to change without notice!

4-1 Function switch instruction

●4-1-1 Select button function instruction

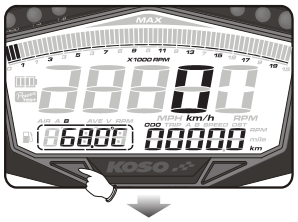


●*In main screen,Press the **Select button** once to switch function from clock to temp A.*



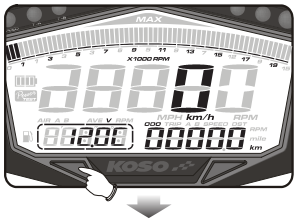
●*In temp A screen, press the **Select button** once to switch from Temp A to Temp B*

●*When the temperature is in the main screen, press and hold the **Select button** for 3 seconds to switch the temperature unit.*

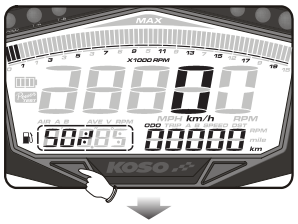


●*In temp B screen, press the **Select button** once to switch from Temp B to volt.*

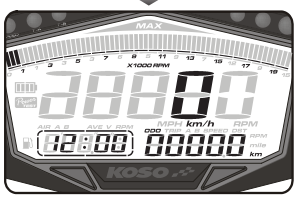
●*When the temperature is in the main screen, press and hold the **Select button** for 3 seconds to switch the temperature unit.*



●*In volt screen, press the **Select button** once to switch from volt to fuel meter.*

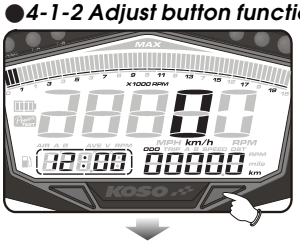


●*In fuel screen, press the **Select button** once to switch from the fuel function to the main screen.*



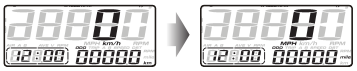
●*The main screen.*

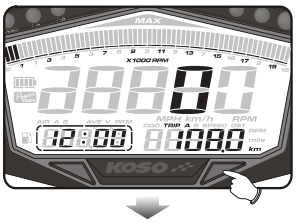
●4-1-2 Adjust button function instruction



●*In main screen, press the **Adjust button** once to switch the function from odo meter to trip A.*

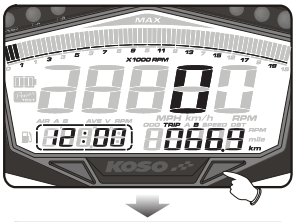
●*In main screen, press and hold the **Adjust button** for 3 seconds to change the speed unit.*





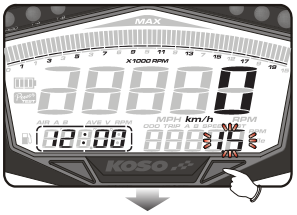
●*In trip A screen, press the **Adjust button** to switch from trip A to trip B.*

●*Press and hold the **Adjust button** for 3 seconds to reset the trip A.*



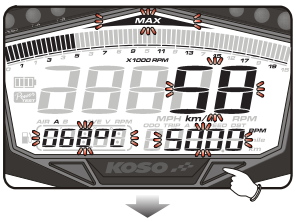
●*In trip B screen, press the **Adjust button** to switch from trip B to total engine hour screen.*

●*Press and hold the **Adjust button** for 3 seconds to reset the trip B.*



●*In total engine hour meter screen, press the **Adjust button** to switch from total engine hour meter to Max record.*

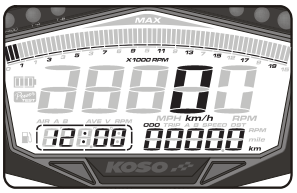
●*Press and hold the **Adjust button** for 3 seconds to reset the total engine hour meter.*



●*In Max record screen, press the **Adjust button** once to switch from Max record to the main screen.*

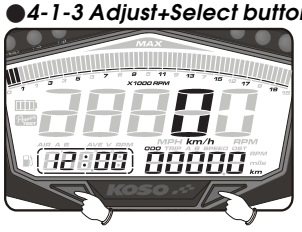
●*Press the **Select button** once to switch the max record screen from Temp A to Temp B.*

●*Press and hold the **Adjust button** for 3 seconds to reset the MAX record.*



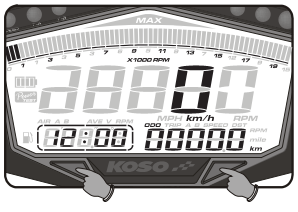
●*The main screen.*

●4-1-3 Adjust+Select buttons function instruction



●*In main screen, press the **Adjust & Select buttons** one time at the same time to switch the digital speedometer to digital tachometer.*

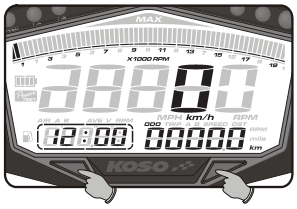
●4-1-4 Select+Adjust buttons function instruction X3



●*In main screen, press and hold the **Adjust & Select buttons** at the same time for 6 seconds to enter the power test screen. (Check section **5-1** for detail)*

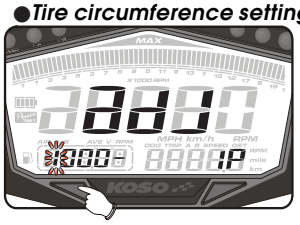
●*In main screen, press and hold the **Adjust & Select buttons** at the same time for 6 seconds to enter the setting screen. (Check section **4-2** for detail)*

●In main screen



●In main screen, press and hold the **Select & Adjust buttons X 3 seconds** to enter the tire circumference and sensor point setting.

●Tire circumference setting



●**EX. The tire circumference is 1,300 mm.**
●Press the **Select button** to move to the digit you want to set.

NOTE Setting range: 300~2,500 mm.
Setting unit: 1 mm.

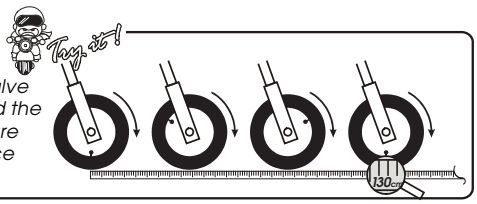
⚠ CAUTION!

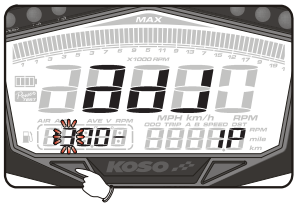
●Measure the tire circumference (The tire you installed the sensor on) and make sure the number of magnet sensor point (install the magnet into the disc screw or the sprocket screw.)

●The speed displayed on the meter will be affected by the setting, make sure the setting number is correct before you enter the 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.

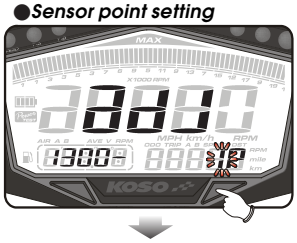




●Press the **Adjust button** to choose the setting number.
●EX. The circumference setting is changed from 1,000 mm to 1,300mm.

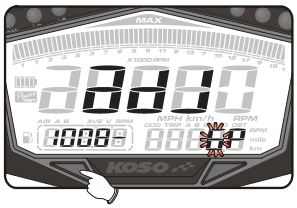
●Press the **Select button** to enter the sensor point setting

●Sensor point setting



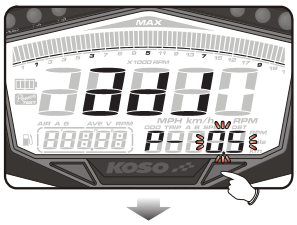
●Press the **Adjust button** to choose the setting number.
●**EX. The sensor point you want to set is 6.**

NOTE The sensor point setting range: 6 points.



●EX. the sensor point setting is changed from 1 P to 6 P.
●Press the **Select button** to enter the RPM pulse setting.

●RPM pulse setting

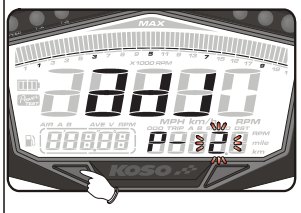


●**EX. You want to change the current setting value from 1 to 2.**
●Press the Adjust button to enter the corresponding value for the RPM signal number per ignition.
(Check the reference table below!)
●EX. The original setting is 0.5 (4C-1P).

NOTE The piston type can be set is 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6.

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	2C-1P	4C-2P	1 RPM signal per 1 ignition.
1.5	———	4C-3P	2 RPM signals per 3 ignitions.
2	2C-2P	4C-4P	1 RPM signal per 2 ignitions.
2.5	———	4C-5P	2 RPM signals per 5 ignitions.
3	2C-3P	4C-6P	1 RPM signal per 3 ignitions.
4	2C-4P	4C-8P	1 RPM signal per 4 ignitions.
5	———	4C-10P	2 RPM signals per 10 ignitions.
6	2C-6P	4C-12P	1 RPM signal per 6 ignitions.

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



●EX. The ignition angle setting is changed from 1 to 2 (4C-4P).
●Press the **Select button** to enter the RPM setting screen.

●The negative impulse

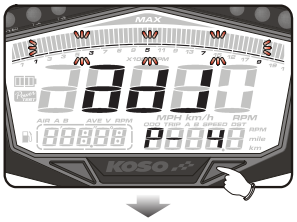
●EX. Change the setting to Lo. (The negative impulse)
●Press the **Adjust button** to choose the input signal you want to set.

NOTE The impulse setting range is between Hi (the positive impulse)& Lo (the negative impulse)

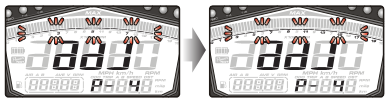
NOTE If the tachometer can't detect the signal (No RPM is displayed on the screen), choose another setting, and check it again.

●EX. Change setting to Hi (The positive impulse)
●Press the **Select button** to enter the RPM setting screen.

●Bar segment tachometer



●EX .You want to set the bar segment tachometer to 20,000 RPM.
●Press the **Adjust button** to choose the setting range.



NOTE The tachometer range : 10,000, 15,000, 20,000RPM

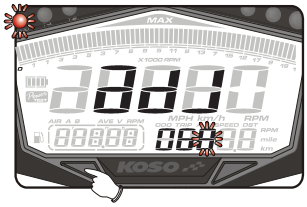
●EX. Now the setting is changed from 10,000 RPM to 20,000 RPM.

●Press **Select button** to enter sthe speeding setting screen.

●Speed warning light setting

●EX. You want to set the speed warning to 68 Km/h.
●Press the **Select button** to move to the digit you want to set.

NOTE Setting range: 30~360km/h (19~225 MPH).
Setting unit: 1 km/h (MPH)

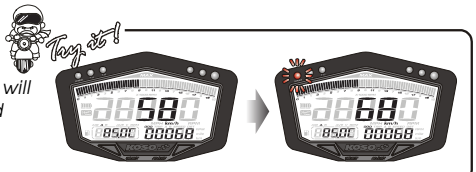


●The speeding alarm setting is changed from 60 Km/h to 68 Km/h.
●Press the **Adjust button** to choose the setting number.

●Press **Select button** to enters the shift light setting screen.

P.S

The speed warning light will light on when the speed reaches your speed warning setting.

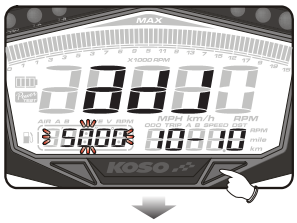


The shift light setting instruction

- The setting is started from the Shift light, and then make the setting value for Pre shift light A&B according to it.

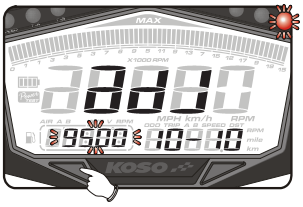
Pre shift light A (5) RPM ▶ **Pre shift light B** (15) RPM ▶ **Shift light** 9500 RPM

The shift light setting



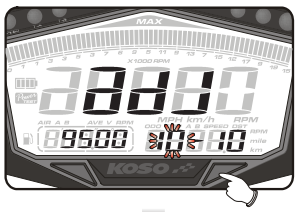
- EX: You want the shift light activated at 9500 RPM Please change the shift light setting value to 9500 directly.
- Press the **Adjust button** to choose the setting number.

NOTE Display range: 5,000~10,000 RPM
Display uniit: 100 RPM



- EX: Now the shift light setting is changed from 5000RPM to 9500 RPM.
- Press the Select button to enter the pre shift light B setting.

The pre-shift light B setting

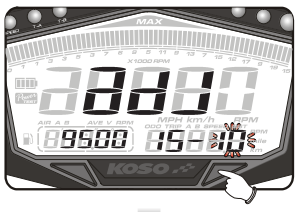


- EX: You want the pre-shift B light to light on at 8000 RPM.
  The equation is as following,
  The shift light setting value (9500) - The pre-shift light B setting value, (B) = 8000 (the RPM you want the pre-shift light to light on.)
  => The setting value of pre-shift light B = 1500.
  It means that you should set the pre-shift light setting as 15.
- Press the **Adjust button** to choose the setting number.

NOTE Display range: 5 (500 RPM)~50 (5000 RPM)
Display unit: 100 RPM

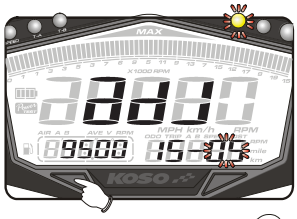
- EX: The setting value is changed from 10 to 15.
- Then press the **Select button** to enter the pre-shift light A setting.

The pre-shift light A setting



- EX: You want the pre-shift A light to light on at 7500 RPM.
  The equation is as following,
  The **pre-shift light B** setting value (8000) - The pre-shift light A setting value (A) = 7500 (the RPM you want the pre-shift light to light on.)
  => The setting value of pre-shift light A = 500.
  It means that you should set the pre-shift light A setting as 5.
- Press the **Adjust button** to choose the setting number.

NOTE Display range: 5 (500 RPM)~50 (5000 RPM)
Display unit: 100 RPM

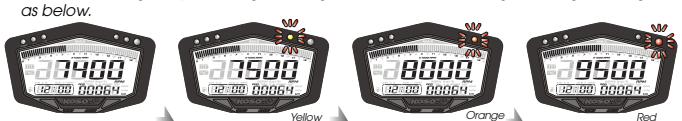


- EX: The setting value is changed from 10 to 5.
- Then press the **Select button** to enter the pre-shift light A setting.

P.S Try it!

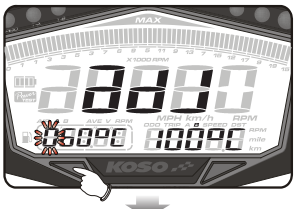
The shift light

- When the shift light & pre shift light setting is 9500-15-05, the 3 stages Shift light will light on as below.

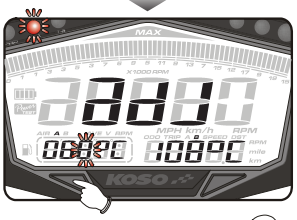


pre shift light **A** 7500 RPM ▶ pre shift light **B** 8000 RPM ▶ Shift light 9500 RPM

Temperature warning A setting



- EX: You want to set the temperature warning A at 68°C.
- Press the **Select button** to move to the digit you want to set.

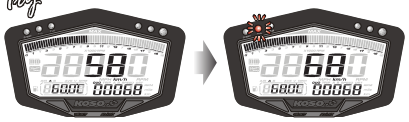


- Press the Adjust button to change the value.
- EX: The temperature warning A setting is changed from 60°C to 68°C.

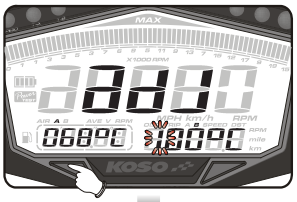
- Then Press the Select button to enter the temperature warning B setting.

P.S Try it!

The red LED warning light activated according to the temperature warning A setting value.



Temperature warning B setting



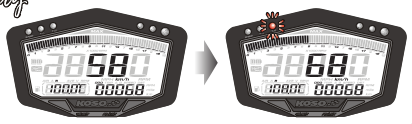
- EX: You want to set the temperature warning B at 108°C.
- Press the **Select button** to move to the digit you want to set.

- Press the Adjust button to change the value.
- EX: The temperature warning A setting is changed from 100°C to 108°C.

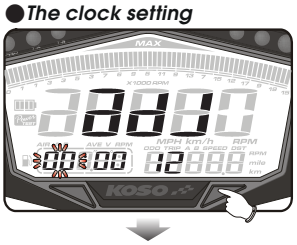
- Press the **Select button** once to enter the clock (hour) setting.

P.S Try it!

The red LED warning will activate the light according to the temperature warning B setting value.



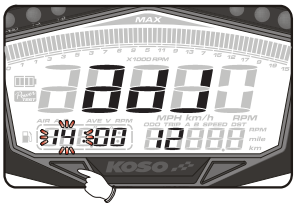
The clock setting



- **EX: You want to change the hour to 14.**
- Press the **Adjust button** to choose the hour you want to set.

NOTE Setting range: 0~23 H.

⚠ CAUTION! The second will be reset if you adjust the clock setting.



- EX. Now the setting is changed from 0:00 to 14:00.
- Then press the **Select button** to enter the minute setting.

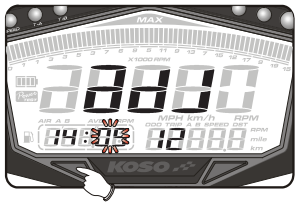
●The clock setting

●***EX. To change the setting to 14:05.***

●*Press the **Adjust button** to choose the hour you want to set.*

NOTE *Setting range: 0~59 minutes.*

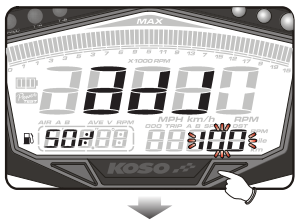
⚠ CAUTION! *The seconds will be reset if you adjust the clock setting.*



●*EX. Now the setting is changed from 14:00 to 14:05.*

●*Press the **Select button** once to enter the fuel gauge resistance.*

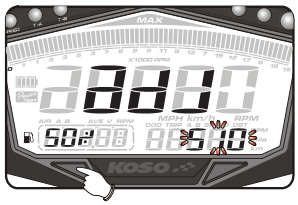
● The fuel gauge resistance



●***EX. You want to change the fuel resistance setting to 510 Ω.***

●*Press the **Adjust button** to choose the hour you want to set.*

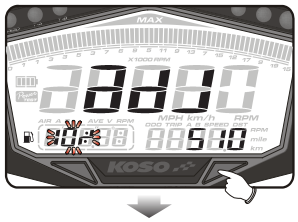
NOTE *The fuel gauge resistance setting range: 100Ω , 510Ω . If you don't install the fuel wiring, the fuel gauge will not display.*



●*EX: The fuel gauge resistance setting is changed from 510Ω to 100Ω.*

●*Press the **Select button** once to enter the low fuel warning setting.*

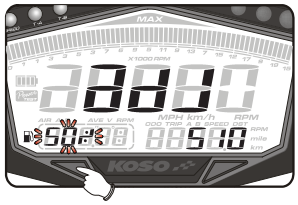
●The low fuel warning



●***EX. You want to change the low fuel warning setting to 50%***

●*Press the **Adjust button** to choose the number you want to set.*

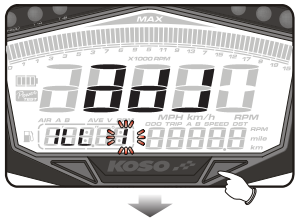
NOTE *The low fuel warning setting range: 10%~50%*



●*EX: The low fuel warning setting is changed from10% to 50%.*

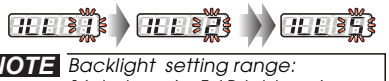
●*Press the **Select button** once to enter the backlight setting.*

●Backlight setting

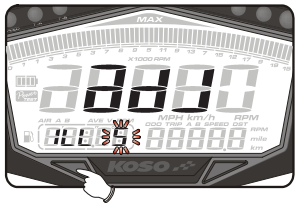


●***EX. You want to set the brightness at 5.***

●*Press the **Adjust button** to choose the number you want to set.*



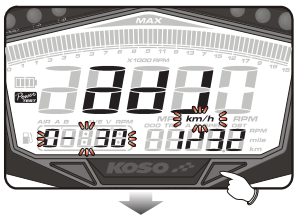
NOTE *Backlight setting range: 1(darkness) ~5 (Brightness) .*



●*EX: To change the Backlight setting from ILL 1 to ILL 5.*

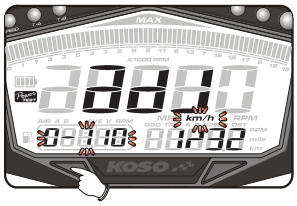
●*Press the **Select button** once to enter the target speed timer test.*

●Target speed timer test



●***EX. You want to change the target speed timer test setting to 0~110***

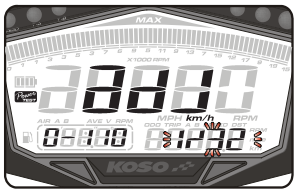
●*Press the **Adjust button** to choose the hour you want to set.*



●***EX:To change the target speed timer test setting from 0~30 km/h to 0~110 km/h.***

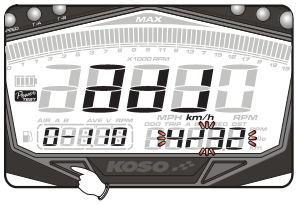
●*Press the **Select button** once to enter the target distance timer test.*

●Target distance timer test



●***EX. You want to change the target distance timer test setting to 4/32 mile***

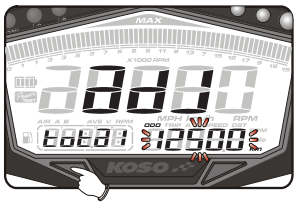
●*Press the **Adjust button** to choose the hour you want to set.*



●*EX: To change the target distance timer test setting from 1/32 mile to 4/32 mile.*

●*Press the **Select button** to enter the odometer display screen.*

●Meter Odometer display (For warranty purpose)

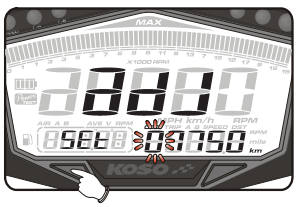


●*Press the **Select button** once to enter the external odometer setting screen.*

●*EX. The internal odometer display is 12 500 km.*

NOTE *This dispaly only for viewing current mileage on the meter.*

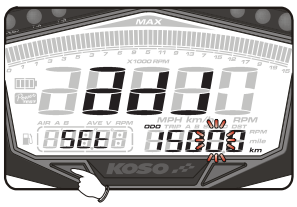
●Adjustable Odometer setting



●***EX. Set the odometer to 15 000 km.***

●*Press the **Select button** to move to the digit you want to set.*

●*Press the **Adjust button** to change the value.*

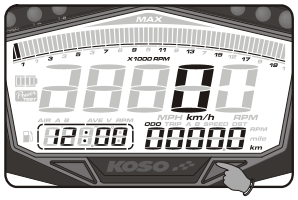


●*Press the **Select button** once to go back to the main screen.*

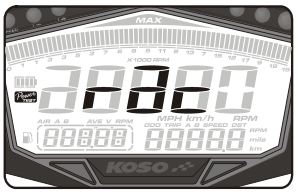
●*EX: To change the odometer setting from 7 750 to 15 000 km.*

● *The main screen.*

5-1 Power TEST Target speed timer test



●In main screen, press and hold the ***Adjust button 3 seconds*** to enter the target speed timer test setting.



⚠ WARNING

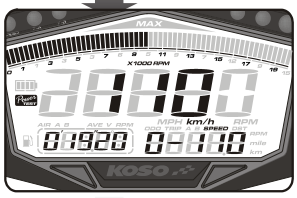
Use this function at racetrack to avoid traffic accidents.

*In power test screen, press the **Select button** once to enter the target speed timer test screen.*

NOTE *Please start the test while the is not moving*

⚠ *If you already have a record, it will display the record first. You must clear the record before starting a new test.*

The record display screen

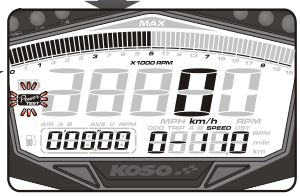


Press the Adjust button to clear the record and enter the target speed timer test screen.

EX. You now see the previous record. It is displaying the target speed timer setting (0~110 km/h), the test result (19"20 s), the top speed (110 km/h) during the test and the MAX RPM (10,000)

*If you just want to use the function once, press & hold the **Select button** for 3 seconds to save the records and back to the main screen.*

To enter the testing screen



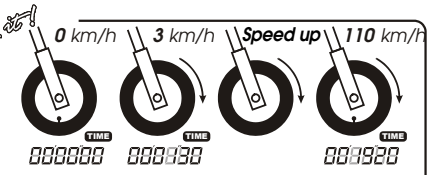
When the bike moves, the timer will start automatically.

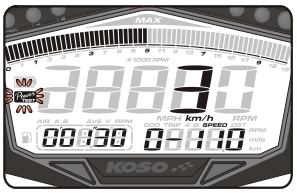
NOTE *About the power test setting, please check (4-2)*

To enter the thesting screen if there is no record

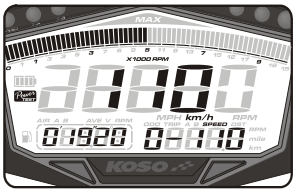
P.S Try it!

The timer is automatic, so moving the bike will start the timer and stop when your bike stops moving.





⚠ *During the test recording, the Power Test will flash!*



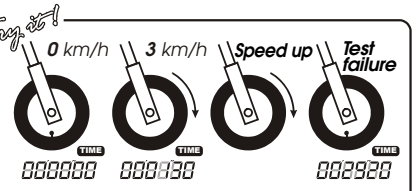
When you reach the set target speed (0~110 km/h), the timer will stop counting (19"20 s) automatically.

*If you just want to use the function once, press & hold the **Select button** for 3 seconds to save the records and back to the main screen.*

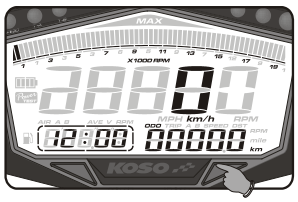
If you want to test it again, press the Adjust button to clear the record and enter the target speed timer test screen again.

P.S Try it!

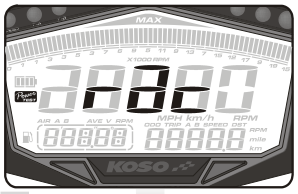
*If you don't reach the target speed or stop accelerating during the test, press the **Adjust button** to stop the timer. Press the **Adjust button** once to clear the record and enter the target speed timer test screen.*



5-2 Power TEST Target distance timer test



●*In main screen, press & hold the **Adjust button 3 seconds** to enter the target distance timer test setting.*



⚠ WARNING

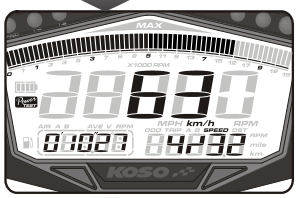
Use this function at racetrack to avoid traffic accidents.

In power test screen, press the Select button 2 times to enter the target distance timer test screen.

NOTE *Please start the test while the is not moving*

⚠ *If you already have a record, it will display the record first. You must clear the record before starting a new test.*

The record display screen

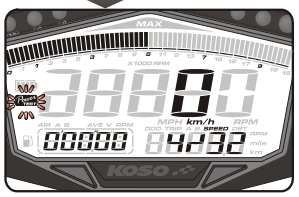


*Press the **Adjust button** to clear the record and enter the target distance timer test screen.*

EX. You now see the previous record. It is displaying the target speed timer setting (2/32 mile (100M)), the test result (10"27 s), the top speed (63 km/h) during the test and the MAX RPM (8,000).

*If you just want to use the function once, press & hold the **Select button** for 3 seconds to save the records and back to the main screen.*

To enter the testing screen



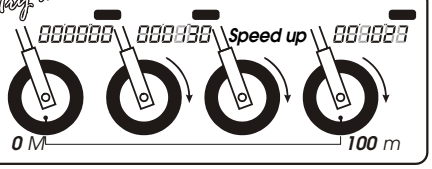
When the bike moves, the timer will start automatically.

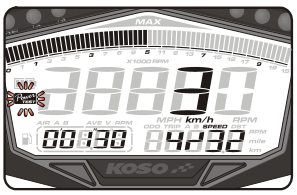
NOTE *About the power test setting, please check **4-2** .*

To enter the thesting screen if there is no record

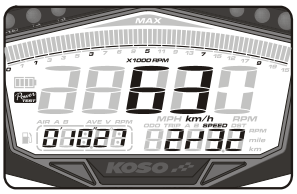
P.S Try it!

The timer is automatic, so moving the bike will start the timer and will stop when your bike stops moving.





⚠ *During the test recording, the Power Test will flash!*



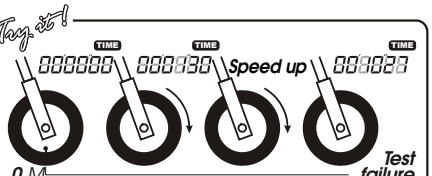
When you reach the set target distance (100 M . 2/32 mile), the timer will stop counting (19"20 s) (10"27s)automatically.

*If you just want to use the function once, press & hold the **Select button** for 3 seconds to save the records and back to the main screen.*

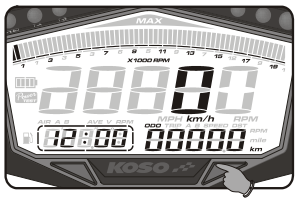
*If you want to test it again, press the **Adjust button** to clear the record and enter the target speed timer test screen again.*

P.S Try it!

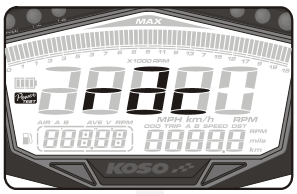
*If you don't reach the target speed or stop accelerating during the test, press the **Adjust button** to stop the timer. Press the **Adjust button** once to clear the record and enter the target distance timer test screen.*



5-3 Power TEST Top speed test



●*In main screen, press and hold the **Adjust button 3 seconds** to enter the top speed timer test setting.*



⚠ WARNING

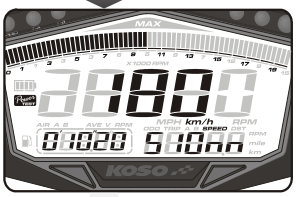
Use this function at racetrack to avoid traffic accidents.

*In power test screen, press the **Select button** 3 times to enter the top speed test screen.*

NOTE *Please start the test while the is not moving*

⚠ *If you already have a record, it will display the record first. You must clear the record before starting a new test.*

The record display screen



*Press the **Adjust button** to clear the record and enter the top speed test screen.*
EX. The record you have is displaying the top speed (180 km/h), the distance to reach the top speed (510 M), the MAX RPM (10,000 RPM) and the time to reach the top speed (10"20 seconds).

To enter the testing screen

*If you just want to use the function once, press and hold the **Select button** for 3 seconds to save the records and to back to the main screen.*

To enter the thesting screen if there is no record

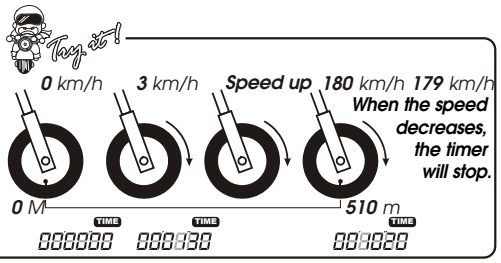
When the bike moves, the timer will start automatically.

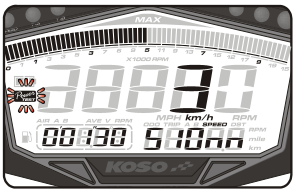
NOTE *The top speed test range*
Speed: 0~360 km/h.
Distance: 0~999 M (3280 feet)
RPM: 0~10,000 / 20,000 RPM.
Timer: 0~9'59"99 seconds.

⚠ *The setting unit will change when you the speed unit setting (**4-2**)*

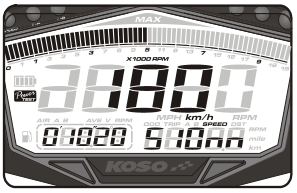
P.S.

The timer is automatic, so moving the bike will start the timer and stop when your bike stops moving.





⚠ *During the test recording, the Power Test will flash!*



*When you reach the top speed (180 km/h), the meter will stop counting the distance (510 M), and time (10"20 s). If you want to test it again, press the **Adjust button** to clear the record and enter the target speed timer t est screen again.*

6 Trouble shooting

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

Trouble	Check item	Trouble	Check item
The meter doesn't work when the power is on.	**• The power isn't supplied to the meter.** →Make sure the wiring is connected. The wiring and fuse are not broken. →The battery is too old to supply needed power (DC 12 V).	**Speed does not appear or appear incorrectly.**	**• Make sure the speed sensor is connected correctly.** **• Check the tire-size setting.** →Refer to the 4.2 section
The meter shows wrong information.	**• Check the voltage of your battery, and make sure the voltage is over DC 12 V**.	**Fuel gauge does not appear or appear incorrectly.**	**• Check your fuel tank.** →Is there any fuel in it ? **• Check the wiring.** →Is it connected properly? **• Check the setting.** →refer to section **4.2**
Tachometer doesn't appear or appears incorrectly.	**• May be due to poor connection of wirings.** →Check whether the wiring is disconnected or has fallen off. **• May be due to the failure to change to the type R spark plug.** **• May be wrong settings**. →Check the settings menu to confirm whether the setting for RPM is correct.	**Temp does not appear or appear incorrectly.**	**• Check the sensor.** →Check whether the wiring is broken or has fallen off.
		The clock is incorrect.	**• Make sure it is connected correctly.** →Make sure the positive wire (Red) connects to the battery, and main switch positive wiring (Brown) connects to the main switch.

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