





Thank you for purchasing speedometer, before operating the unit, please read the instruction thoroughly and retain it for the future reference.

⚠ Notice

- 1. DC 12V applications only.
- 2.For installation, please follow the steps described in manual. Any damage caused by wrong installation shall be imputed to the users.

 3.To avoid the short circuit, please don't pull the wire when installing. Don't break or modify the wire terminal.

- 4.Do not disassemble or change any parts excluding the manual description.
 5.The interior examination or maintenance should be executed by our professionals.

MARK MEANING:

You could get the installation details from the information behind the mark.

Nome processes must be followed to avoid the affection caused by wrong installation.

⚠ WARNING! Some processes must be followed to avoid damages to yourself or the public.

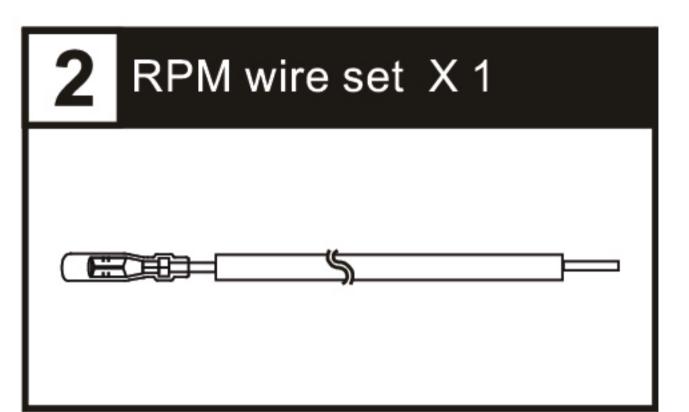
A CAUTION! Some processes must be followed to avoid the damage to the vehicle.

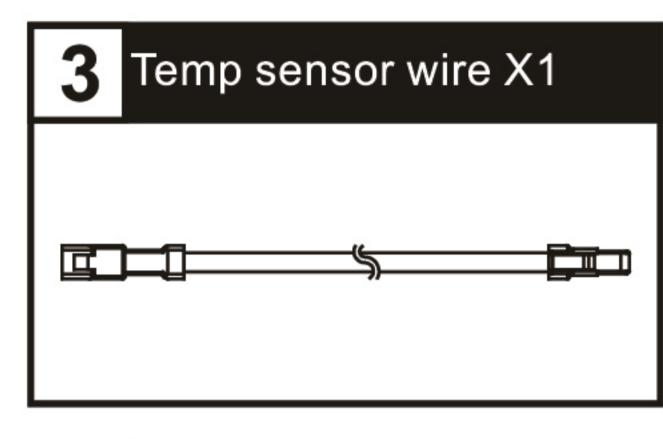


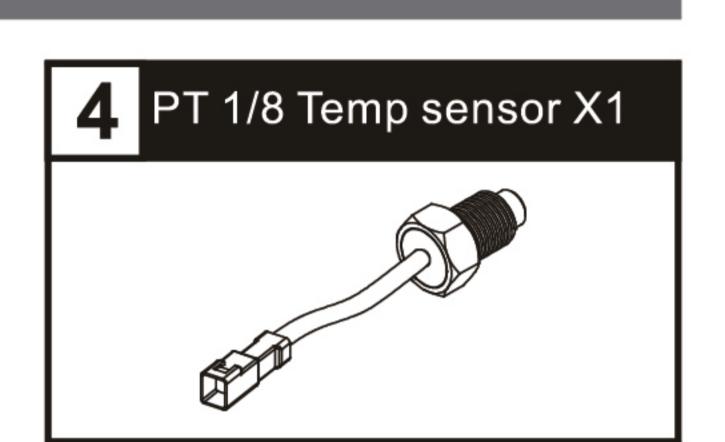


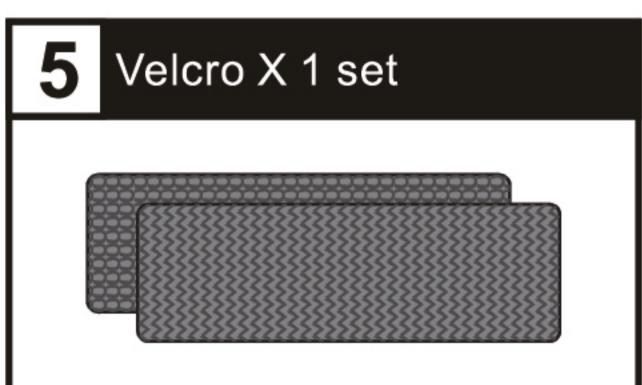
1 Accessory

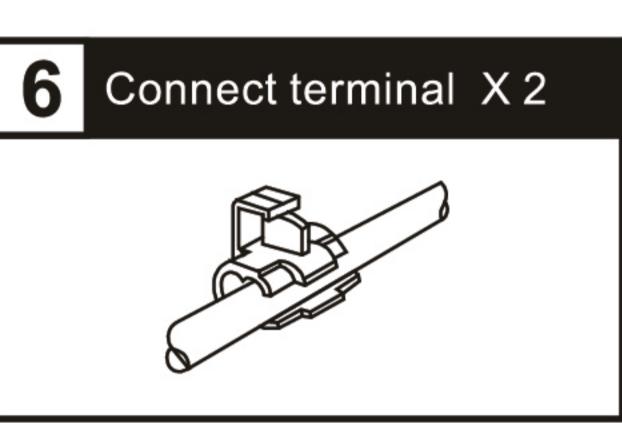


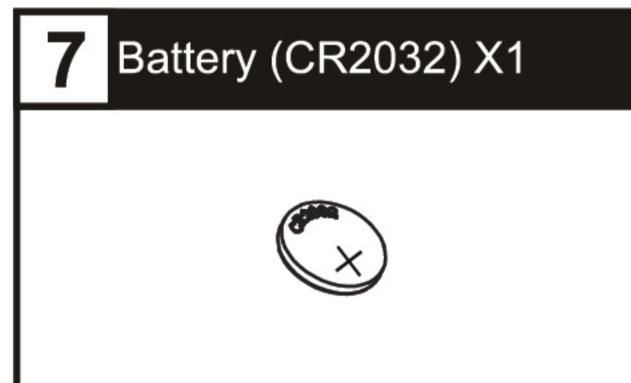






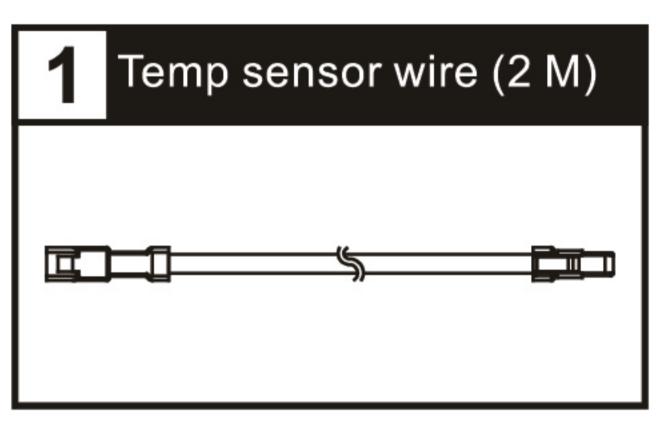


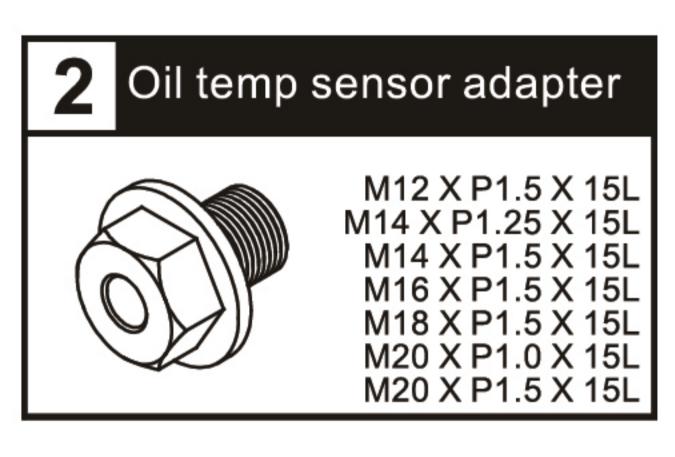


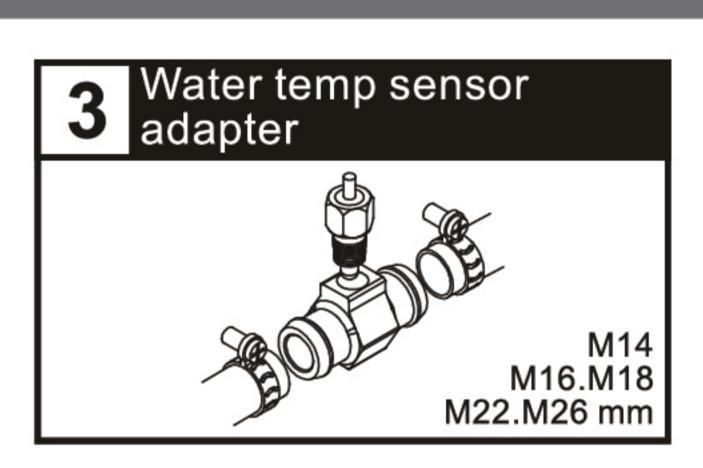


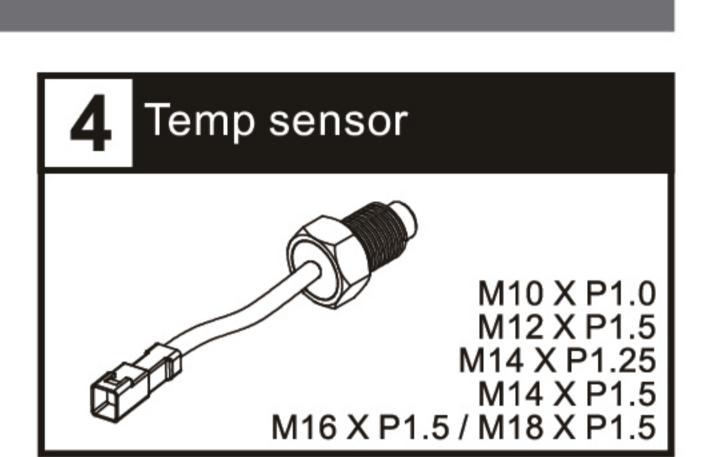
Please contact the local distributor if the items you open are not the same, with the above-listed one.

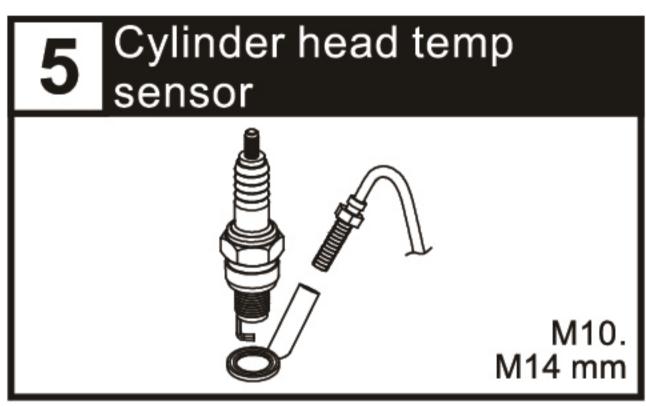
1-2 Option accessory





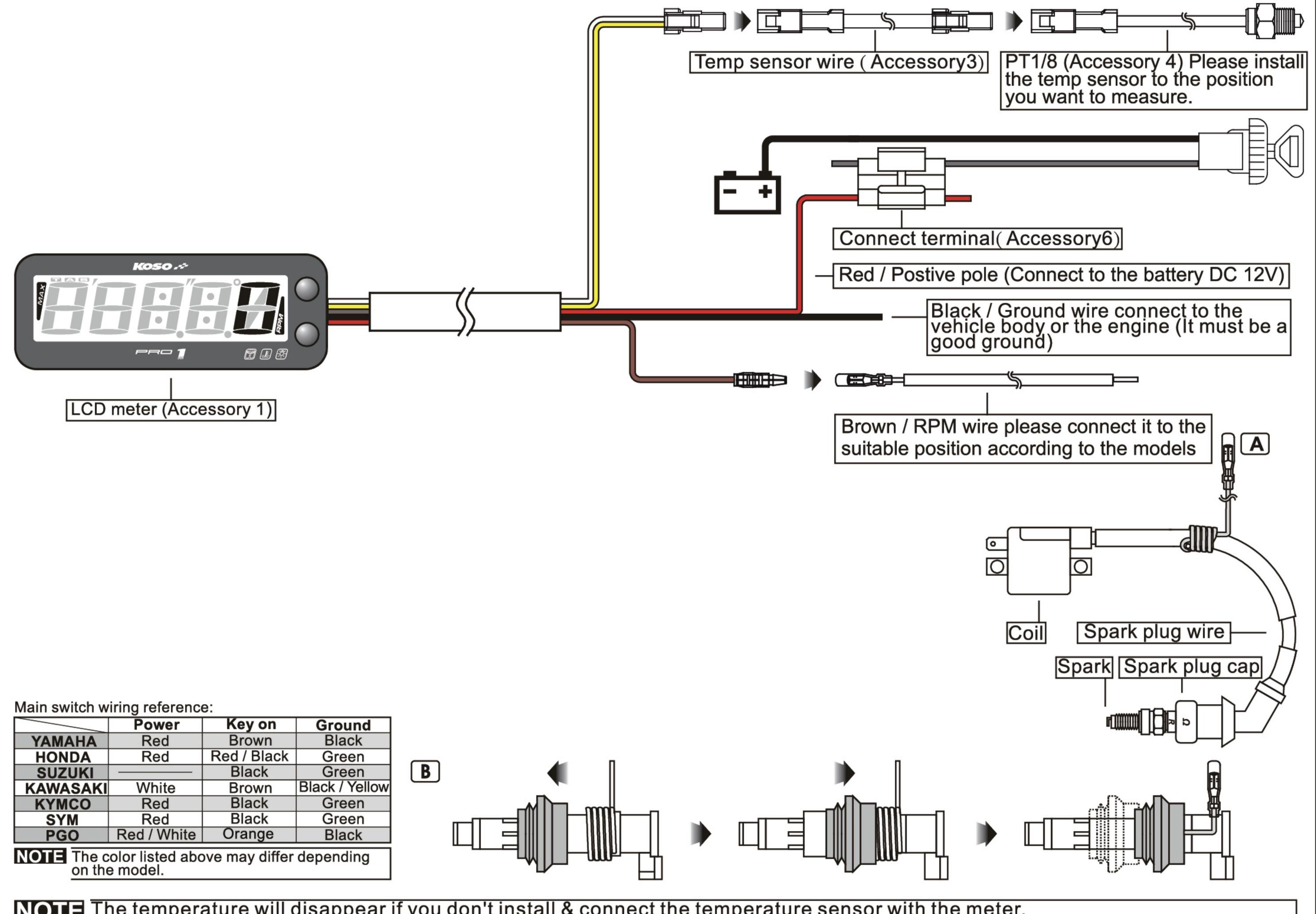






Some of the option accessories may not sell. For the details, please contact the local distributor.

2_1 Wiring installation instructions



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

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

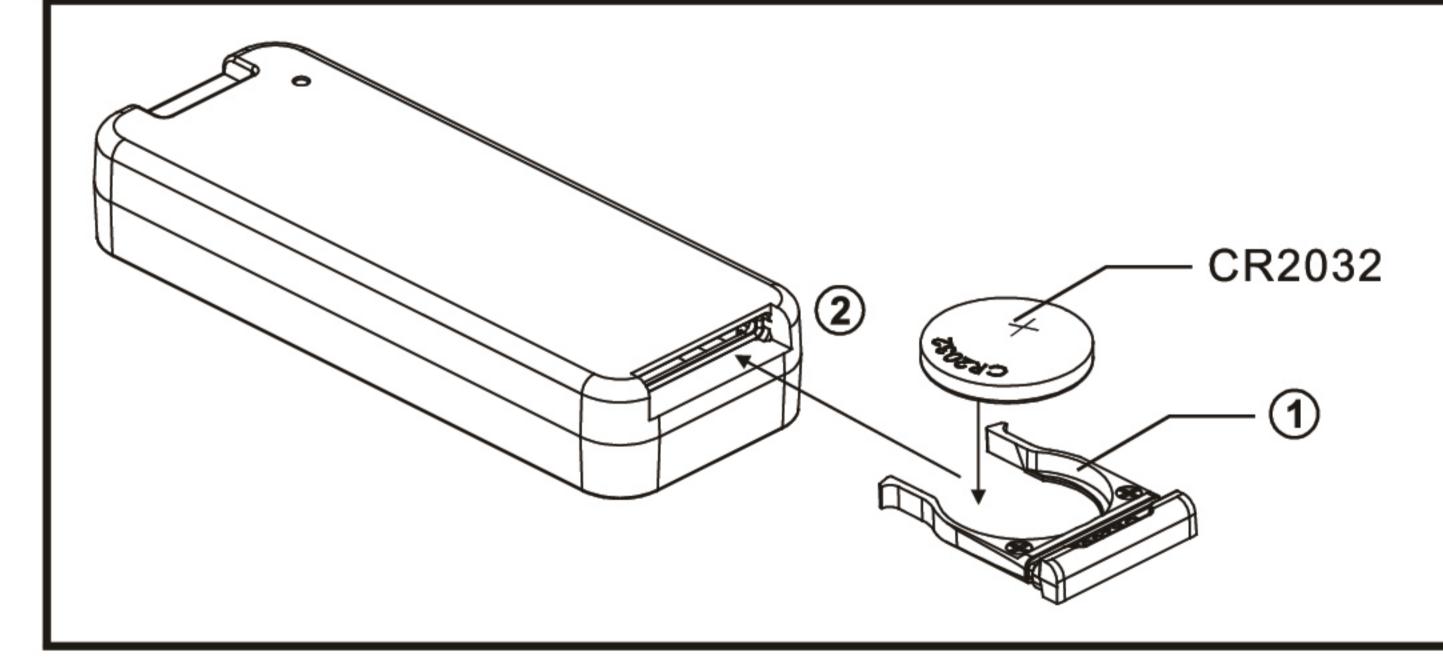
⚠ The RPM wire installation

A.Please wrap the RPM wire at least 5 times around the spark plug.

Please check the spark plug is "R" type or not. If not, Please replace the spark plug with the "R" type spark plug.

B.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.

2-2 Battery replancement



Follow this procedure for proper installation

Please open the battery slot first, then put the battery in the position shown in Figure 1. Finally push the battery slot back in the meter in the position shown as figure 2.

MARNING! Not following this procedure could result in permanent damage to the meter.

3-1 Basic function instruction

MAX RPM / Temperature record The meter will record the top RPM

and temperature automatically.

Thermometer

● Display range: 0~250 °C(32~482 °F)

●Display range: 0.1 °C (°F)



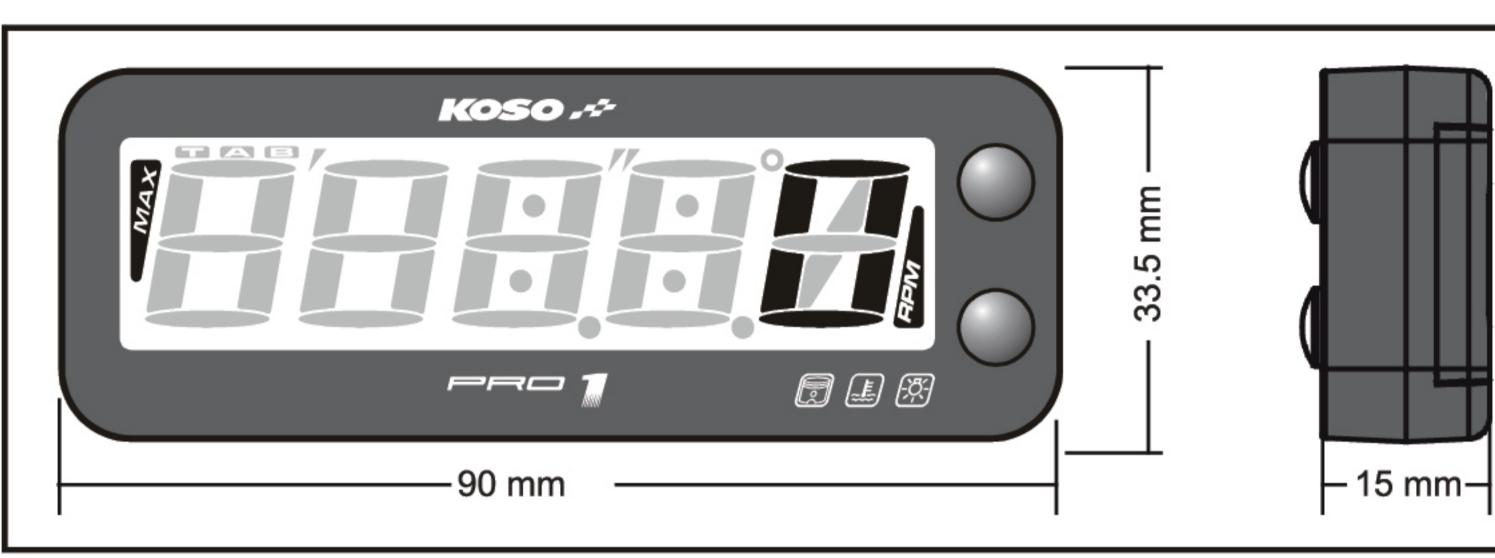
Select button

Tachometer ●Display range:20,000 RPM ●Display range: 100 RPM

■Adjust button

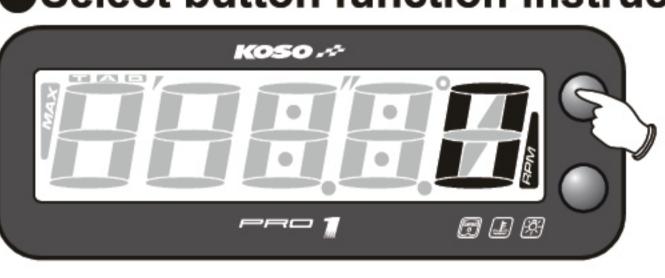
3-2 Function, setting instruction

Tachometer	Display range: 0~20,000 RPM	Thermometer	Display unit:°C & °F for alternative
	Display unit: 100 RPM	OThermometer	Display range: 0~250 °C (32~482 °F)
ODisplay internal	<0.5 second		Display unit: 0.1 °C (°F)
OMax. RPM record	Display range: : 0~20,000 RPM	OMAX temperature record	Display range: 0~250 °C (32~482 °F)
	Display unit: 1 RPM	OThermometer alarm	Setting range: 60~250 °C (140~482 °F)
OTotal hour meter	Display range: 99,999 (HOUR),reset		Setting unit: 0.1 °C (°F)
	automatically after 99,999 (HOUR)	Backlight brightness	Setting range: 1-5 (Darkest)~5-5 (Brightest)
	Display unit: 1 HOUR		Setting unit: Each level represents 20%
OHour meter A / B	Display range: : 9999.9 (HOUR),reset	●Effective voltage	CR 2032 Lifetime around 10 mont
	automatically after 9999.9 (HOUR)	Effective temperature ra	ange -10~+60 °C
	Display unit: 0.1 HOUR	Meter standard	JIS D 0203 S2
ORPM input pulse	Setting range: 0.5, 1~6	Meter size	90 X 33.5 X 15 mm
○Warning	Setting range : 5,000~20,000 RPM	Meter weight	Around 330g
	Setting unit: 100 RPM	NOTE Design and specifi	cation are subject to change without notice!

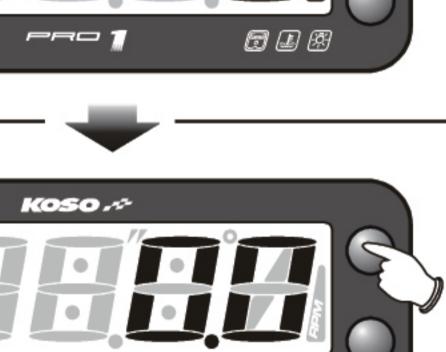


3-3 Function switch instruction

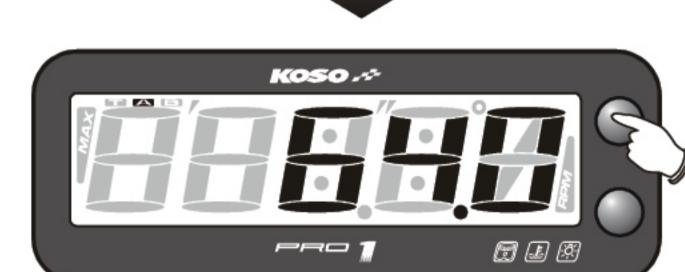
Select button function instruction



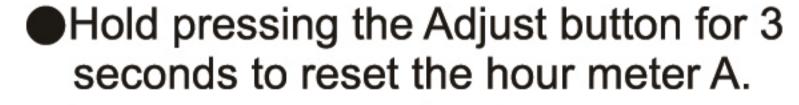
In RPM screen, Press the Select button once to switch function from RPM to total hour meter.



In total hour screen, Press the Select button once to switch function from total hour to hour meter A.



In hour meter A screen, Press the Select button once to switch function from hour meter A to hour meter B.

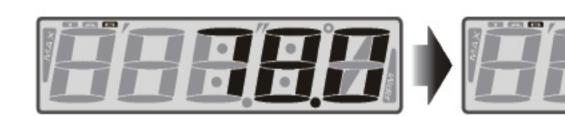


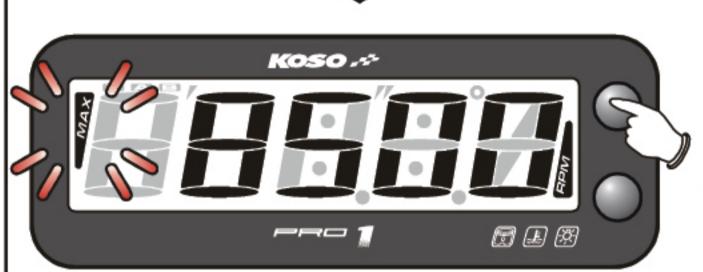




In hour meter B screen, Press the Select button once to switch function from hour meter B to MAX.

Hold pressing the Adjust button for 3 seconds to reset the hour meter B.





Max. RPM record screen, Press the Select button one time to go back to the RPM screen.

Hold pressing the Adjust button for 3 seconds to reset the MAX.





In RPM screen.

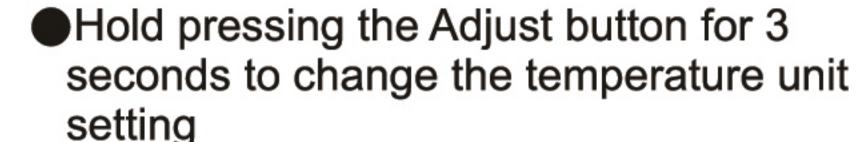
Select button for 3 seconds function instruction



In RPM screen, Hold pressing the Select button for 3 seconds to switch function from RPM to thermometer.



In thermometer screen, Press the Select button once to switch function from thermometer meter to MAX temperature







In MAX temperature record screen, Hold pressing the Select button for 3 seconds to go back to the RPM screen.

Hold pressing the Adjust button for 3 seconds to reset the MAX temperature





●In RPM screen ∘

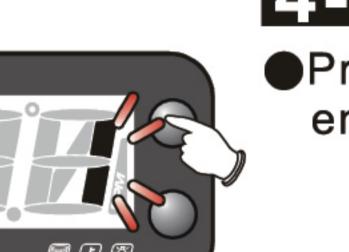
4 Function setting instruction



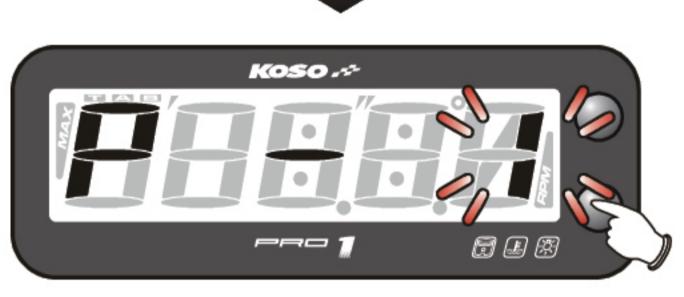
KOSO 🚓

In main screen, hold pressing the Select + Adjust button for 3 seconds to enter the setting screen.





enter the 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. (Please check the

reference table below!)
NOTE Default:P-1
Mow the default is flashing

ZINOW the default is hashing					
	NOTE The piston type can be set is $0.5 \cdot 1$ $2 \cdot 3 4 \cdot 5 6$				
	The setting value	The corre	sponding stons number.	The corresponding RPM signal number per ignition.	
	0.5		4C-1P	2 RPM signal per 1 ignition.	

The setting value	stroke and pistons number.		number per ignition.	
0.5		4C-1P	2 RPM signal per 1 ignition.	
1	2C-1P	4C-2P	1 RPM signal per 1 ignition.	
2	2C-2P	4C-4P	1 RPM signal per 2 ignition.	
3	2C-3P	4C-6P	1 RPM signal per 3 ignition.	
4	2C-4P	4C-8P	1 RPM signal per 4 ignition.	
5		4C-10P	1 RPM signal per 5 ignition.	
6	2C-6P	4C-12P	1 RPM signal per 6 ignition.	

ACAUTION!

Some 4 stroke engine with single cylinder also generate 1 ignition signal per revolution of the engine. In this case the setting should be set as same as 2 stroke engine with single cylinder

NOTE Pvalue is how many ignition signal the engine will generate per revolution (360)

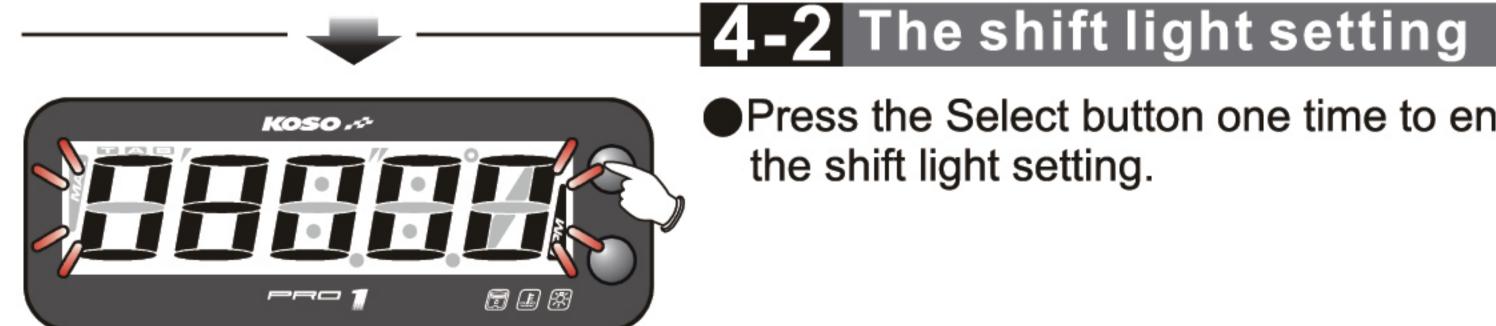


Press the Select button to go back to the RPM pulse setting.

EX. The ignition angle setting is changed from 1 to 2 (4C-4P).



Press the Adjust button to enter the shift light setting.



Press the Select button one time to enter the shift light setting.



EX: You want the shift light to light on at 8000 RPM Please change the shift light setting value to 8500 directly.

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

NOTE Default:8,000RPM

Now the default is flashing

NOTE Setting range: 5,000~20,000 RPM Setting unit: 100 RPM

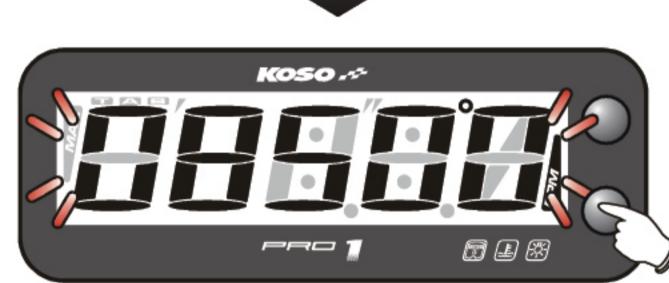


Press the Adjust button to choose the setting number.



Press the Select button to choose the Shift light setting.

EX: Now the shift light setting is changed from 8,000RPM to 8,500 RPM.



Press the Adjust button to enter the temperature alarm setting.

4-3 Temperature alarm setting



Press the Select button one time to enter the temperature alarm setting.



EX: You want to set the temperature alarm at 95 °C.

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

NOTE Default:90 °C

Now the default is flashing

NOTE Setting range : 60 ~ 250 °C (140~482 °F)



Press the Adjust button to choose the setting number.



Press the Select button to go back to the temperature alarm screen.

EX: The temperature alarm setting is changed from 90°C to 95 °C.

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Press the Adjust button to enter the Backlight setting.



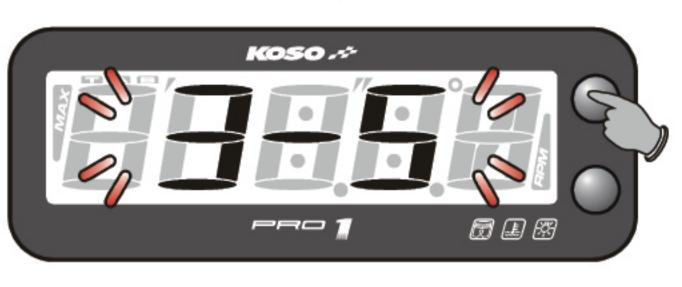
Press the Select button one time to enter the backlight setting.

●EX:The backlight setting setting is changed from 5-5 (100%) to 3-5 (60%).



4-4 Backlight setting

Press the Select button one time to enter the backlight setting.



Press the Select button X3 seconds to go back to the main screen.



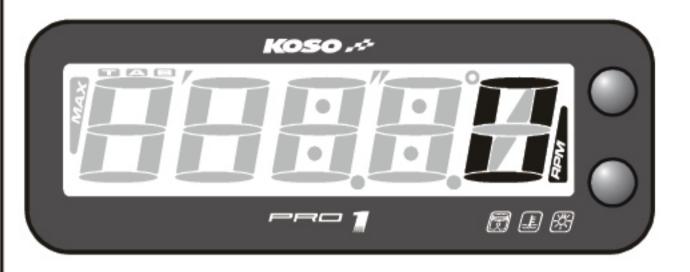
- ●EX. You want to set the backlight at 3-5 (60%).
- Press the Adjust button to choose the setting number.

NOTE Default:5-5

Now the default 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.



The main screen.

5 Trouble shooting

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

Trouble	Check item	Trouble	Check item
The meter doesn't work when the power is on.	 The power doesn't supply to the meter. →Please make sure the wiring is connected. The wiring and fuse are not broken. →The battery is broken or the battery is too old to supply enough power DC 12V to make the meter work. 	Temp does not appear or appear incorrectly.	◆Check the temp sensor →Did the wire broke or disconnect?
Tachometer does not appear or appear incorrectly.	 ●Please check the RPM sensor wiring is connected correctly. ●Please check the spark plug is R type or Please check your setting. →Please refer to the manual 4-1. 		

※If still can't solve the problems according to the steps above, please contact with distributors or us.

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