

STRUCTION



0 18

LIGHT ON

2

HOLD THE

BUTTON 3

FLASH

HOLD THE

BUTTON ONE

2

Thank you for purchasing our product. Before installing/operating the product, please read the instructions carefully and retain them for future reference.

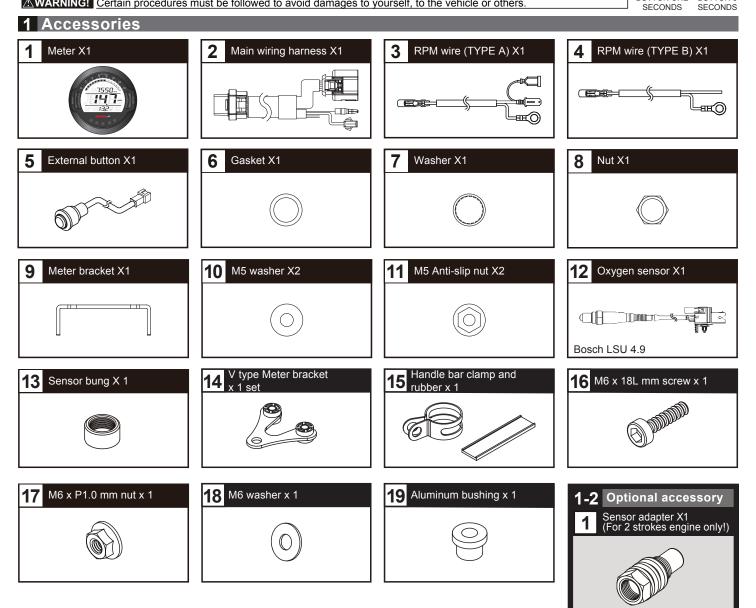
Attention!

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

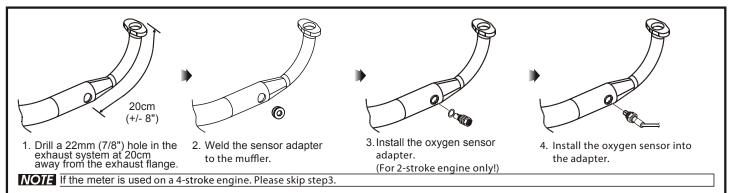
NOTE

A Some procedures must be followed to avoid damages to the product.

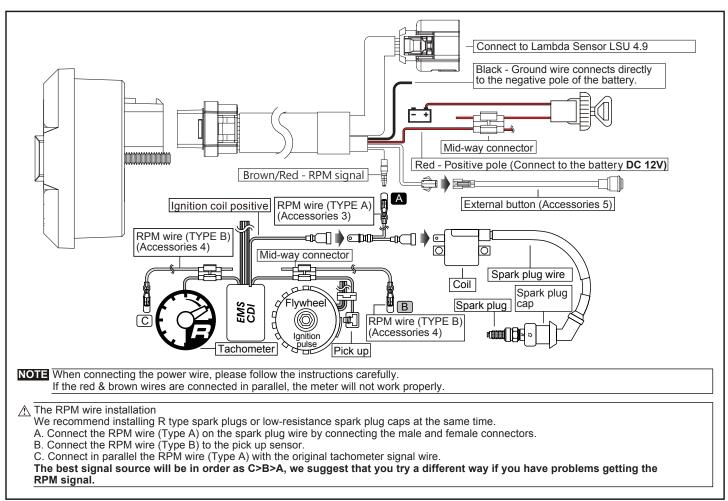
AWARNING! Certain procedures must be followed to avoid damages to yourself, to the vehicle or others.



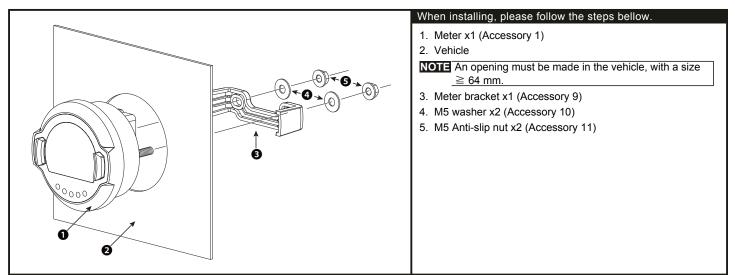
2-0 Oxygen sensor installation



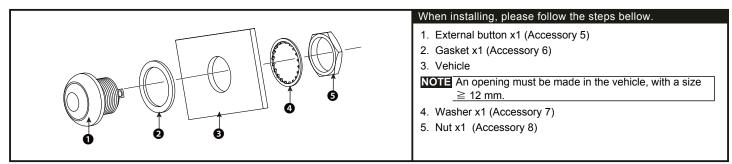
2-1 Wiring installation instructions



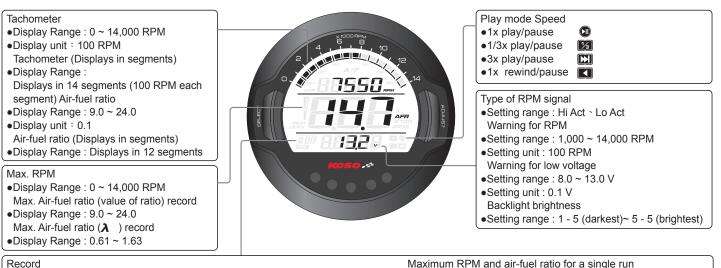
2-2 Installation instructions



2-3 Installation instructions



3-1 Basic function instruction



- Record
- Maximum number of recorded runs: 50 runs
- Maximum recording time for a single record run: 99m 59s 90; the recording will stop upon reaching the maximum time.
- Total recording time: Approximately 3.15 hours

3-2 Features and settings description

•Tachometer	Display Range : 0 ~ 14,000 RPM Display unit : 100 RPM
 Tachometer (Display in segments) 	Display Range : Displays in 14 segments (100 RPM each segments)
●RPM input pulse	Setting range : 0.5 \ 1 \ 1.5 \ 2 \ 2.5 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10 \ 11 \ 12 \ 13 \ 14 \ 15 \ 16 \ 17 \ 18 \ 19 \ 20 \ 21 \ 22 \ 23 \ 24
●Type of RPM signal	Setting range : Hi Act Lo Act Default value : Hi Act
●Warning for RPM	Setting range : 1,000 ~ 14,000 RPM Setting unit : 100 RPM Default value : 8,000
 Warning for low voltage 	Setting range : 8.0 ~ 13.0 V Setting unit : 0.1 V Default value : 11.5 V
Backlight brightness	Setting range : 1 - 5 (darkest)~ 5 - 5 (brightest) Default value : 5

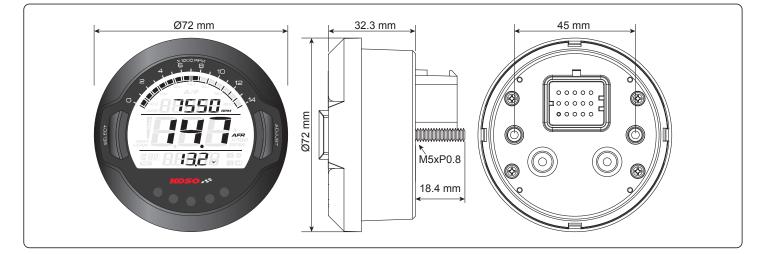
Air-fuel ratio	Display Range : 9.0 ~ 24.0			
	Setting unit : 0.1			
 Warning for Rich air-fuel 	Setting range : 9.0 ~ 14.7			
ratio	Setting unit : 0.1			
	Default value : 14.4			
 Warning for Lean air-fuel ratio 	Setting range : 14.7 ~ 24.0			
	Setting unit : 0.1			
	Default value : 15.0			
•Air-fuel ratio (display segments)	Display Range : Displays in 12 segments			
 Operating voltage 	DC 12V			
 Temperature range 	-10 ~ +60°C			
oSpecifications	JIS D 0203(S2)			
Meter Size	72 X 32.3 mm			
 Meter Weight 	About 100 g			
NOTE Design and specifications may change without further notice.				

• Scope of recording for RPM : 0 ~ 14,000 RPM

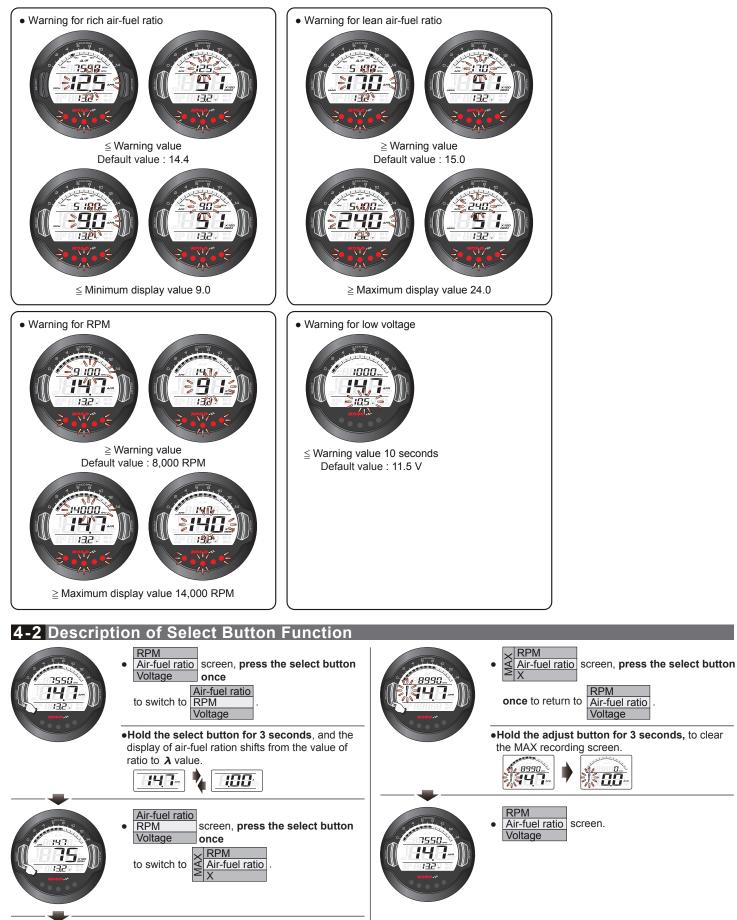
•Air-fuel ratio (value of ratio) record : 9.0 ~ 24.0

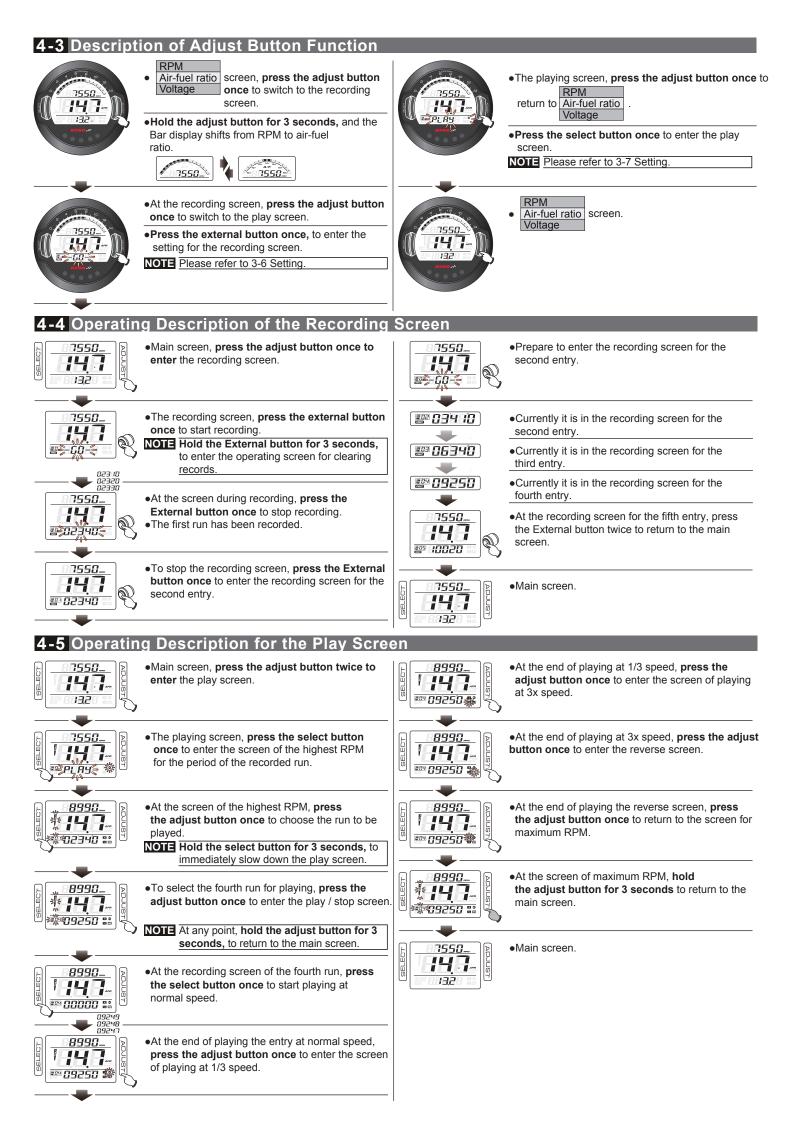
Air-fuel ratio (→)record : 0.61 ~ 1.63

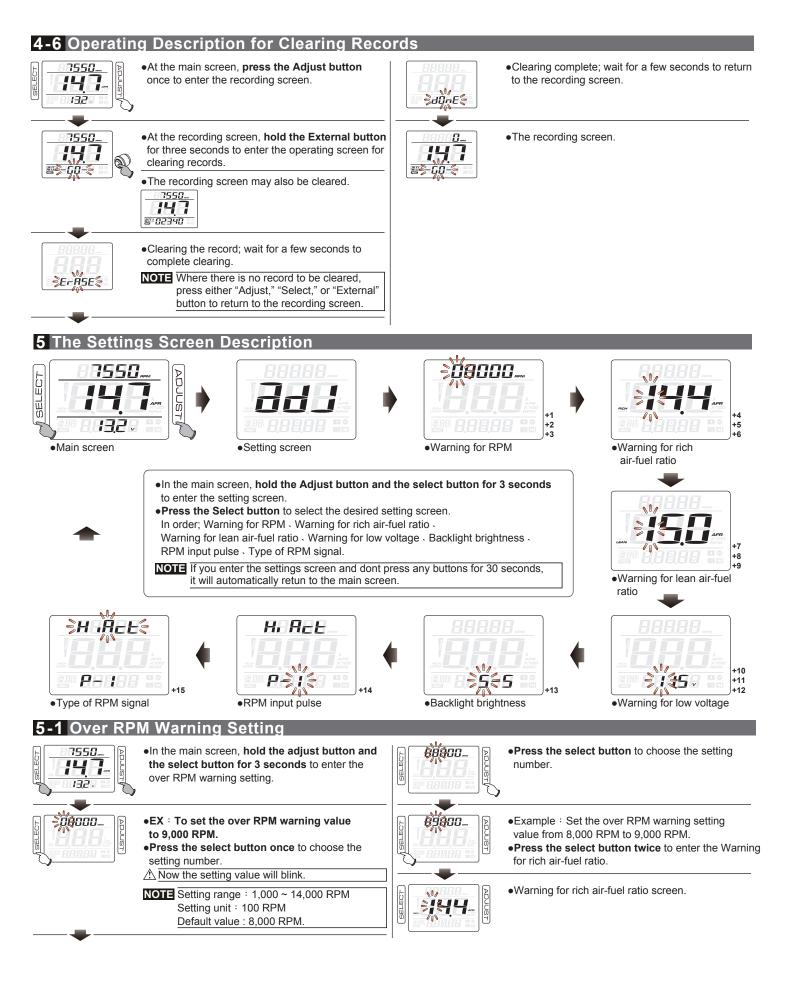
3-3 Meter size



4-1 Description of Warnings







5-2 Warning For Rich Air-Fuel Ratio Setting



•EX : To set the warning for rich air-fuel ratio value to 12.5.
•Press the select button once to choose the setting number.

 \triangle Now the setting value will blink.

NOTE Setting range : 9.0 ~ 14.7 Setting unit : 0.1 Default value : 14.4





- •Example : Set the warning for rich air-fuel ratio value from 14.4 to 12.5.
- Press the select button twice enter the warning for lean air-fuel ratio.

•Example : Set the warning for lean air-fuel ratio

•Press the select button once enter the warning for

ratio value from 15.0 to 19.5.

Warning for low voltage screen.

warning for low voltage.

•Warning for lean air-fuel ratio screen.



• Press the adjust button to choose the setting number.



- •EX : To set the warning for lean air-fuel ratio value to 19.5 •Press the select button once to choose the
- Press the select button once to choose in setting number.
 Now the setting value will blink.

NOTE Setting range : 14.7 ~ 24.0 Setting unit : 0.1

Default value : 15.0



•Press the adjust button to choose the setting number.

5-4 Warning For Low Voltage Setting



- •EX : To set the warning for low voltage value to 10.5.
- •Press the select button once to choose the setting number.

▲ Now the setting value will blink.

NOTE Setting range : 8.0 ~ 13.0 V Setting unit : 0.1 V Default value : 11.5 V



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- •Example : Set the warning for low voltage value from 11.5 V to 10.5 V.
- Press the select button once to enter the warning for backlight brightness.

•Backlight brightness screen.



•Press the adjust button to choose the setting number.

5-5 Backlight Brightness Setting



•EX : To set backlight brightness value to 3/5. •Press the adjust button once to choose the setting number.

▲ Now the setting value will blink.

NOTE Setting range : 1/5 ~ 5/5 Setting unit : 1/5 Default value : 5/5



Example : Set the backlight brightness value from 5/5 to 3/5.
Press the select button once to enter the warning for RPM input pulse



•RPM input pulse screen.

5-6 RPM Input Pulse Setting



•EX. You want to connect the RPM signal wire to the pick up signal and there are 12 flywheel signals per turn. •Press the adjust button once to choose the

setting number.

Now the setting value will blink.

NOTE Setting range : P-0.5 . P-1 . P-1.5 . P-2 . P-2.5 、 P-3 、 P-4 、 P-5 、 P-6 、 P-7 、 P-8 、 P-9 、 P-10 、 P-11 、 P-12 、 P-13 、 P-14 、 P-15 、 P-16 、 P-17 、 P-18 、 P-19 、 P-20 、 P-21 、 P-22 、 P-23 、 P-24 Default value : P-1

5-7 Type Of RPM Signal Setting



•EX : To set type of RPM signal value to Lo Act. •Press the adjust button once to choose the

setting number. Now the setting value will blink.

NOTE Setting range : Hi Act . Lo Act Default value : Hi Act



6 Trouble shooting

•Example : Set the type of RPM signal from Hi Act to Lo Act. main screen.

Hi Act δŢ Pain }Hı Act{

P- 12

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•Example : Set the RPM input pulse value from P-1 to P-12.

 Press the select button once enter the type of rotation speed signal.

•Type of RPM signal screen.



Main screen.

• Press the select button once to return to the

The following situations do not necessarily indicate malfunction of the product. Please 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. →Please make sure the wiring is connected. The wiring and fuse are not broken. →The battery is too old to supply needed power (DC 12 V). 	Voltage doesn't appear or appears incorrectly.	 ●Wiring for the connector may be poorly installed. →Please confirm whether the wires for the connector are properly installed.
The meter shows wrong information. Tachometer doesn't appear or appears incorrectly.	 Check the voltage of your battery, and make sure the voltage is over DC 12 V. May be due to poor connection of wires. →Please 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. →Please check the settings menu to confirm whether the setting for RPM is correct. 	A / F does not display or displays error.	 May be due to poor connection of wires. →Please check whether the wiring is disconnected or has fallen off. May be due to the wrong setting of AFR. →Please check the settings menu to confirm whether the setting is correct.

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