



Thank you for purchasing **KOSO DL volt meter**, before operating the unit, please read the instruction thoroughly and retain it for the future reference.

⚠ Notice

1. The lcd meter is apply for **DC 12V**.
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.

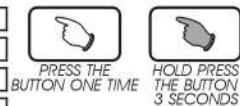
SYMBOL NOTE:

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

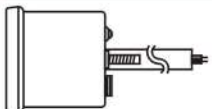
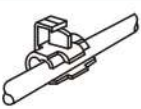









⚠ Some processes must be followed to avoid the affection caused by wrong installation.

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

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






1-1 Accessory

1 LCD meter X1 	2 Connect terminal X2 	3 Meter bracket X 1 	4 Handle bar clamp X 1 
5 Rubber X 1 	6 M6 X 18L screw X 1 	7 M4 X P0.7 nut X 2 	8 M6 X P1.0 nut X1 
9 M4 washer X 2 	10 M6 washer X 1 	11 Aluminum bush X 1 	

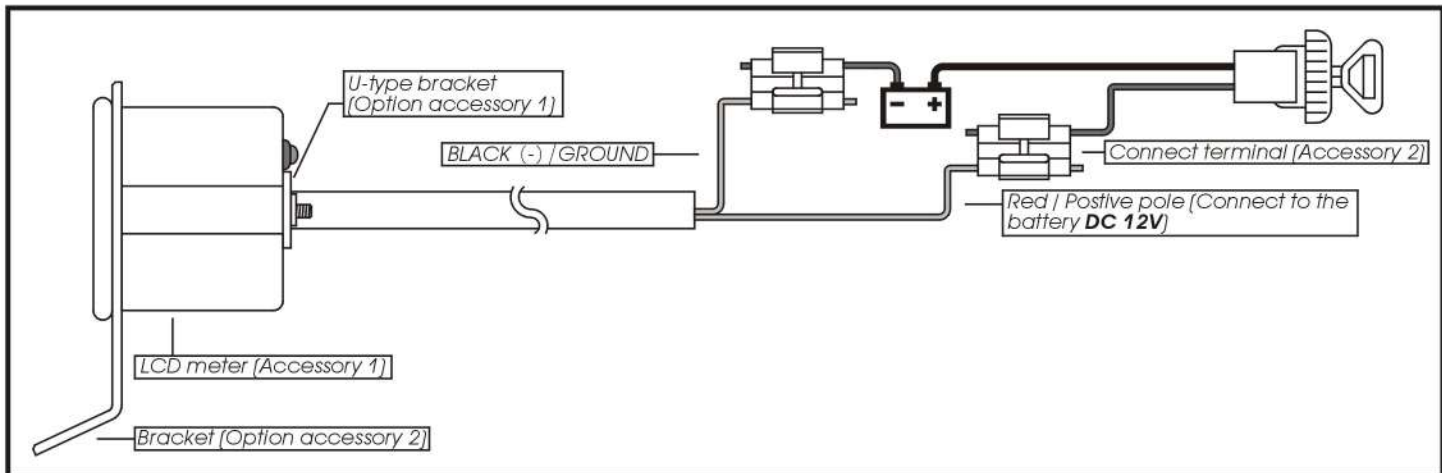
NOTE Please contact the local distributor if the items you open are not the same, with the above-listed one.

1-2 Option accessory

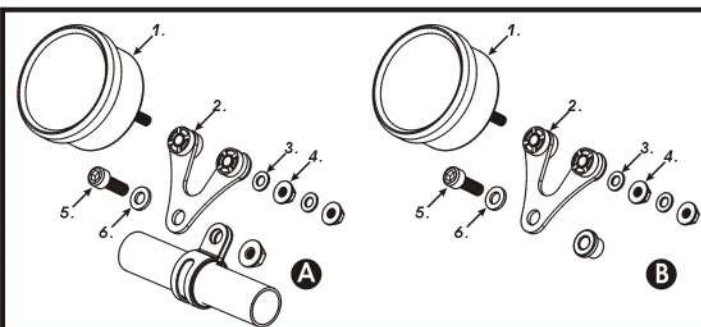
1 U-type meter bracket 	2 Mirror hole meter bracket 	3 Universal adhesive bracket 
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NOTE Some of the option accessories may not sell. For the details, please contact the local distributor.

2-1 Wiring installation instructions



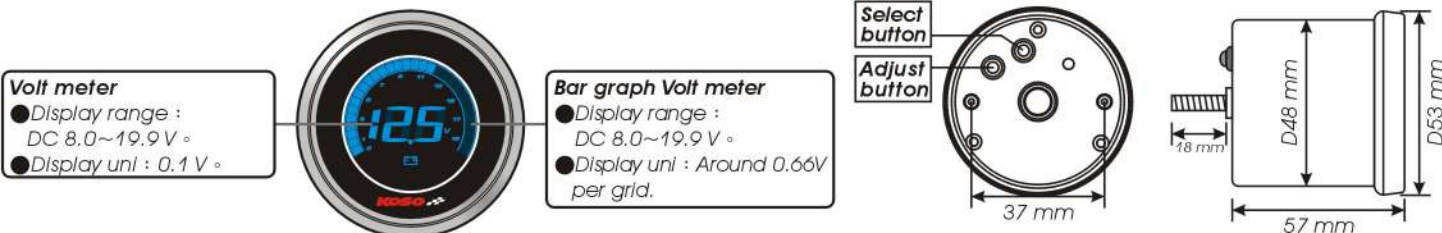
2-2 Installation instructions



When installing, please follow the process.

1. Lcd meter (Accessory 1)
 2. Meter bracket (Accessory 3)
 3. M4 washer X2 (Accessory 9)
 4. M4 X P0.7 nut X2 (Accessory 7)
 5. M6 X18L screw (Accessory 6)
 6. M6 washer (Accessory 10)
- A** Use the meter bracket (Accessory 3), handle bar clamp (Accessory 4), rubber (Accessory 5) and the nut to install the meter on the handle bar.
- B** Use the aluminum bush (Accessory 11) to install the meter on the handle bar stem.

3-1 Display instruction



3-2 Function, setting instruction

● Volt meter	Display range : DC 8.0~19.9 V Display unit : 0.1 V	● Effective voltage	DC12V
○ Bar graph volt meter	Display range : DC 8.0~19.9 V Display unit : Around 0.66V per segment.	● Effective temperature range	-10~+60°C
○ The low voltage warning setting	Setting range : DC 8.0~12.0 V Setting unit : 0.1 V	● Meter standard	JIS D 0203 S2
		● Meter size	D48 X 52.8 mm
		● Meter weight	Around 117 g

NOTE Design and specification are subject to change without notice!

4-1 Function setting instruction

● In main screen, Hold pressing the **Select & Adjust X 3 seconds** to enter the low voltage warning setting.

● EX: You want to set the volt alarm at 12.0 V.

● Press the **Select button** to change the setting value from 11.5 to 12.0.

NOTE Setting range: 8.0~12.0 V.

⚠ The digit you could set is flashing now.

● After the setting, press the **Adjust button** to return to the main screen.

● EX: The volt warning setting is changed from 11.5V to 12.0V

● The main screen.

5-1 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.	<ul style="list-style-type: none"> ● The power doesn't supply to the meter. <ul style="list-style-type: none"> → 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 6V) to make the meter work. 	The meter shows wrong information.	<ul style="list-style-type: none"> ● Please check the voltage of your battery, and make sure the voltage is over DC 6V.

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