

INSTALLATION



Thanks for purchasing our T&T meter. Before operating this unit, please read carefully the instruction sheet and retain it for future reference.

⚠ Notice

1. This meter work on DC 9~12 volts applications only.
2. For proper installation, please follow the steps described in the instruction. Any damages caused by wrong installation shall be imputed to the users.
3. Don't break or modify the wire terminals. To avoid any short circuit, do not pull the wires out of the terminal when installing.
4. Do not disassemble or change any parts.
5. Opening the instrument will void any warranty. Maintenance or repair should be executed by our professionals only.

MARK MEANING:

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

⚠ **WARNING!** Some procedures must be followed to avoid injuries to the user or others.

⚠ **!** Some procedures must be followed to avoid damages to the vehicle.



Light on



Flash

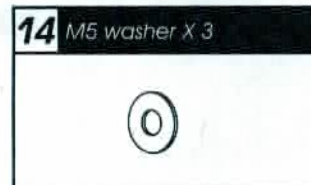
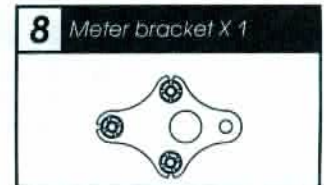
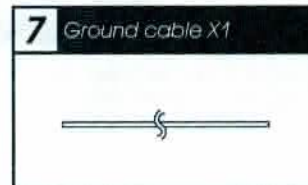
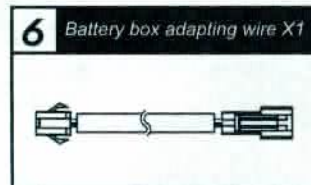
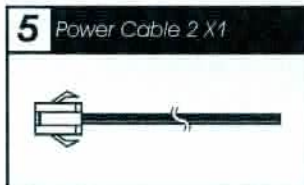
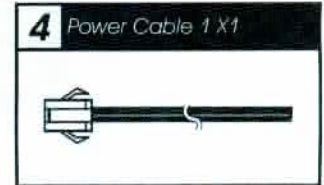
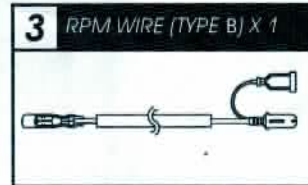
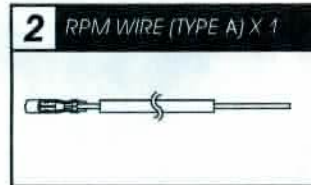
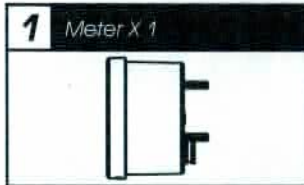


Press the button once



Press the button for 3 seconds

1-1 Accessory



NOTE Please contact your local distributor if the items received are not the same as the one listed above.

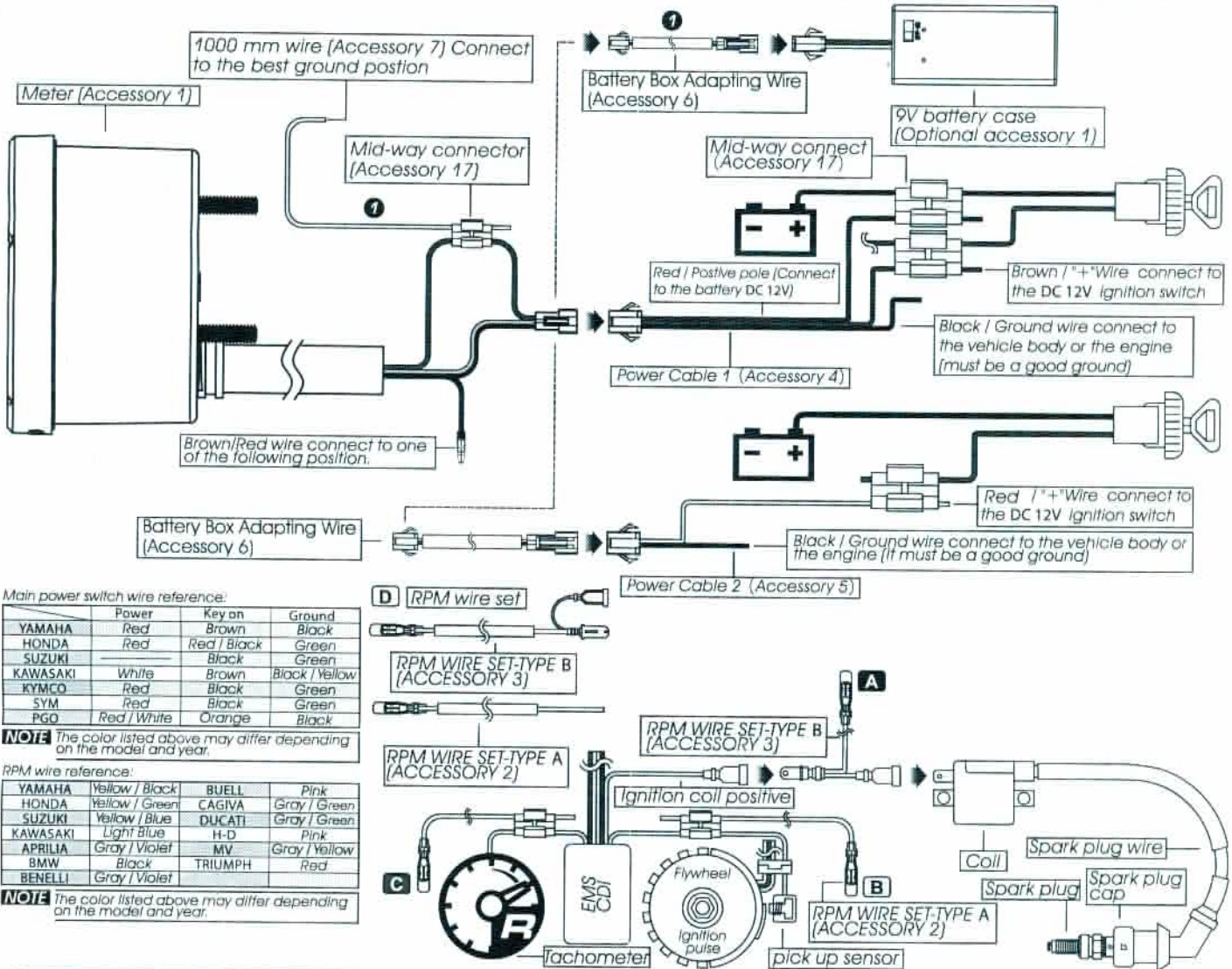
1-2 Optional accessory



2-1 Wiring installation instruction

CAUTION!

Depending on the application, there is two different ways to install this meter.
 1. If using the 9v battery case, the 1000mm ground wire need to be connected.
 2. If using the 12v power cable, connect the power cable to the to the vehicle power supply.



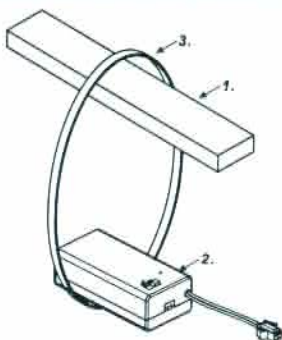
The RPM wire installation

- A. Connect the RPM wire (Type B) to the ignition coil positive pole.
- B. Connect the RPM wire (Type A) to the pick up sensor.
- C. Connect in 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 proper RPM wire information from the service manual of your bikes.)
- D. Use the method mentioned above to install the RPM wire.

For multi-ignition models, we will suggest you to get the signal on the first ignition coil.

The best signal source will be in order as C>B>A, we will suggest you to check different ways if you have problems to get the RPM signal.

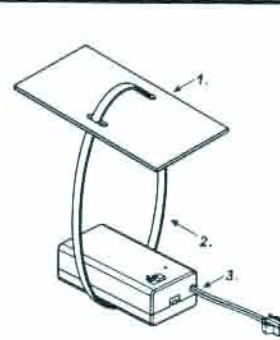
2-2 Installation of the battery case on the frame (Optional accessory 1)



For proper installation, follow the steps below.

1. Find a proper location to install the battery case.
2. Install the battery case on the frame.
3. Secure the battery case using the Tie Wrap.

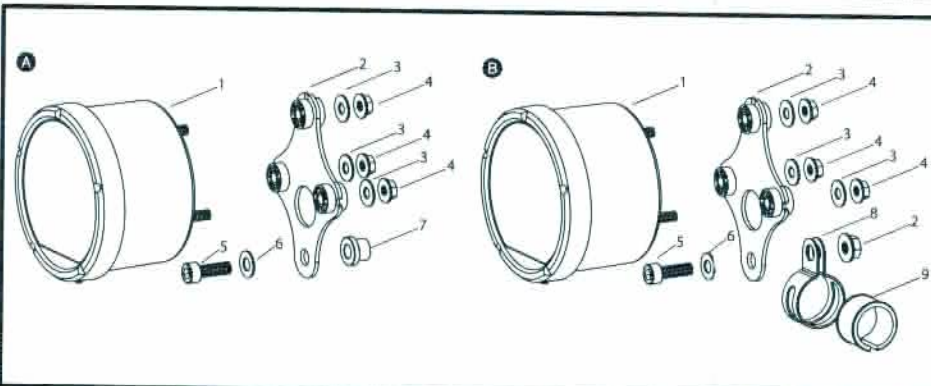
2-3 Installation of the battery case on the fairing (Optional accessory 1)



For proper installation, follow the steps below.

1. Find a proper location to install the battery case and drill 2 holes.
2. Pass the Tie Wrap through the 2 holes.
3. Secure the battery case using the Tie Wrap.

2-2 Installation instructions

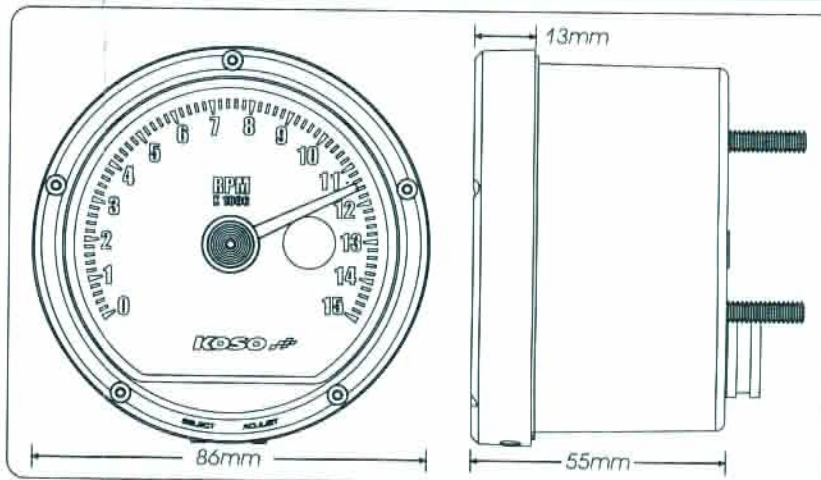


When installing, please follow the process.

1. Meter (Accessory 1)
2. Meter bracket (Accessory 8)
3. M5 washer X 3 (Accessory 14)
4. M5XP0.8 nut X 3 (Accessory 12)
5. M6XP1.0 Screw (Accessory 13)
6. M6 washer (Accessory 15)

- A** Use the meter bracket (Accessory 8), aluminum bush (Accessory 16) to install the speedometer on the handle bar stem.
- B** Use the meter bracket (Accessory 8), handle bar clamp (Accessory 9), rubber (Accessory 10) and the M6XP1.0 nut (Accessory 13) to install the meter on the handle bar.

3-1 Basic function instruction



3-2 Basic function instruction

Tachometer

- Display range: 0 ~ 15,000 rpm

Shift light

- Setting range: 0 ~ 15,000 RPM
- Setting unit: 500 RPM
- Warning: Light on, Flash

Select button

- Press the Select button in the main screen to switch between MAX record.

Adjust button

- In Max.record screen. Press the Adjust button for 3 seconds to reset Max. record.

3-2 Specifications

● Tachometer	Display range: 0~15,000 RPM
○ Display internal	<0.5 second
○ The RPM Input signal number setting	Setting range 0.5, 1~6
○ The RPM Input pulse	Setting range: Hi (positive wave pulse) Lo (negative wave pulse)
● Backlight brightness	Setting range: 6 different levels available. Setting unit: Each level represents 20 %
○ The shift light	Setting range: 0~15,000 RPM Setting unit: 500 RPM

○ Shift light warning	Light on Flash
● Effective voltage	DC 9~12 V
● Effective temperature range	-10~+60°C
● Meter standard	JIS D 0203 S2
● Meter size	D86X55mm
● Meter weight	Around 330g

NOTE Design and specifications are subject to change without notice.

4-1 Setting steps



● In the main screen

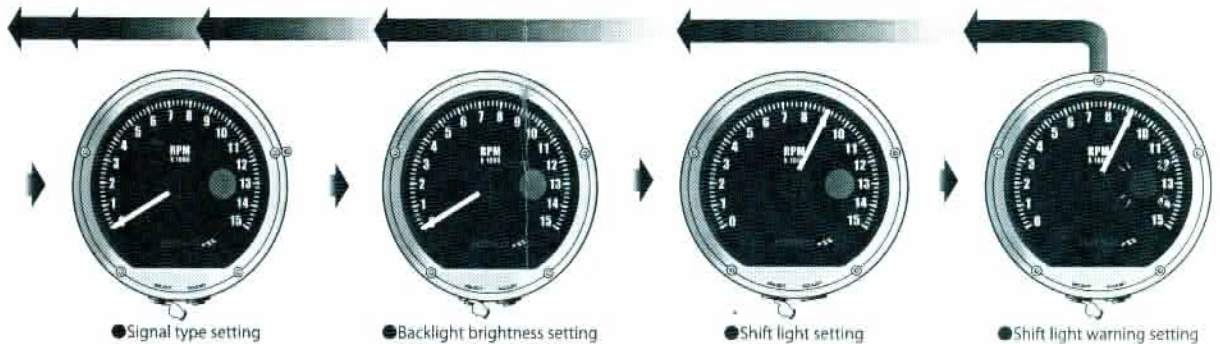
- In the main screen, hold for 3 seconds the Select & Adjust button to enter the setting screen.
- In setting screen, press the Select button to choose the function you want to set. The function in setting screen is in order as Piston number setting → Signal type setting → Backlight brightness setting → Shift light setting → Shift light warning setting.

⚠ The instrument will automatically return to the operating mode after 10 seconds if no buttons has been pressed.

Note In the setting mode. Press the Select button for 3 second to enter the operating mode.



● Piston number setting



● Signal type setting

● Backlight brightness setting

● Shift light setting

● Shift light warning setting

4-2 Main function instruction (Operating mode)



- In the operating mode. Press the Select button once to view the maximum RPM recorded.



- While the needle still show the maximum RPM, Press the Adjust button for 3 sec. to reset the Maximum RPM recorded.

4-3 Entering setting mode



- In the Operating Mode, hold the Select & Adjust button for 3 seconds to enter the Setting Mode.

4-3-2 Signal type setting

- Press the Adjust button to change the value. 1=Hi, 0=Lo

NOTE We define the RPM input pulse as Hi (positive pulse) & Lo (negative pulse).

NOTE If the RPM displayed on the meter is incorrect, choose another setting and try it again.

4-3-1 Piston number setting

- Press the Adjust button to change the value.

NOTE Setting range: 0.5, 1-6.

Setting value	2 Strokes setting	4 Strokes setting	RPM per spark
0.5	—	1 pist.	2 RPM signals per 1 spark.
1	1 pist.	2 pist.	1 RPM signal per 1 spark.
1.5	—	3 pist.	2 RPM signals per 3 sparks.
2	2 pist.	4 pist.	1 RPM signal per 2 sparks.
2.5	—	5 pist.	2 RPM signals per 5 sparks.
3	3 pist.	6 pist.	1 RPM signal per 3 sparks.
4	4 pist.	8 pist.	1 RPM signal per 4 sparks.
5	—	10 pist.	2 RPM signals per 10 sparks.
6	6 pist.	12 pist.	1 RPM signal per 6 sparks.

⚠ **CAUTION!** Some 4 strokes engines with one piston are igniting every 360 degree. To get the proper RPM, the setting should be the same as a 2 strokes engine with one piston.

- Press the Select button once to enter the Signal type setting.



- Press the Select button once to enter the backlight brightness setting.

4-3-3 Backlight brightness setting

- Press the Adjust button to change the value.

NOTE Setting range: 0 (Darkest) - 5 (Brightest), 6 different levels available. Setting unit: 20% per level. The backlight brightness will change immediately after you set the value.



- Press the Select button once to enter the shift light setting.

4-3-4 Shift light setting

- Press the Adjust button to change the value.

NOTE Setting range:0~15,000 RPM
Setting unit:500 RPM



- Press the Select button for 3 seconds to enter the Operating Mode.

- Press the Select button once to enter the shift light warning setting.

4-3-5 Shift light warning setting

- Press the Adjust button to change the value.

☀ Light on ☀ Flash



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.	<ul style="list-style-type: none"> ● 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. 	The Max. record doesn't work, the meter setting is not recorded.	<ul style="list-style-type: none"> ● It is possible that the permanent power wire is not connected well. → Please check the red positive wire is connect well or not.
Tachometer does not appear or appear incorrectly.	<ul style="list-style-type: none"> ● Please check the RPM sensor wiring is connected correctly. ● Please check the spark plug is R type or not. If not, please replace the spark plug with the R type spark plug. ● Please check your setting. → Please refer to the manual 4-3-1 		

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