



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 12 volts applications only.
- 2. For proper installation, please follow the steps described in the instruction sheets. Any damages caused by wrong installation shall be imputed to the users.
- 3.Don't break or modity 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:

AWARNING! Some procedures must be followed to avoid injuries to the user or others.

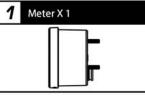
A CAUTION! Some procedures must be followed to avoid damages to the vehicle.

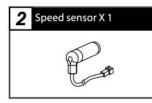


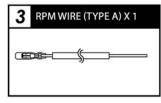


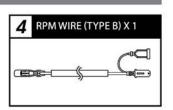


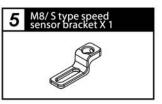
1-1 Accessories

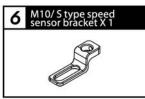




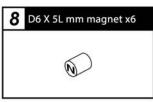




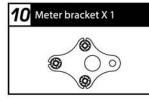


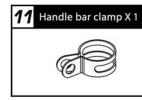


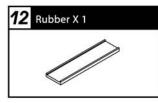




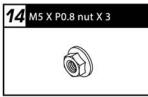


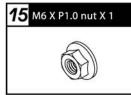




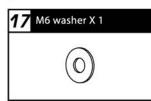




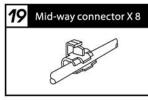










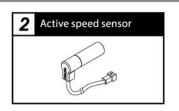


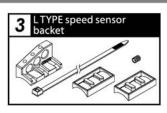


NOTE Please contact your local distributor if the items received in the box are not the same as the one listed above.

1-2 Optional accessories



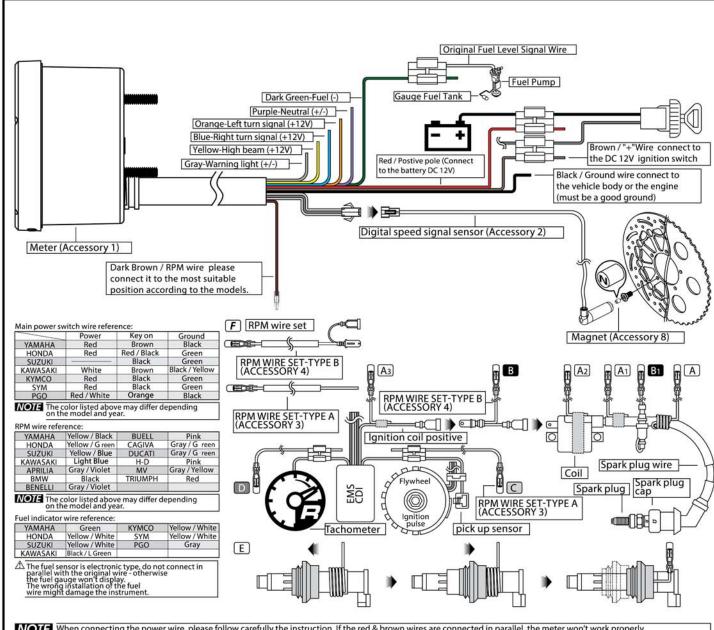




NOTE The optional active speed sensor can read up to 20 pulses and do not require the installation of any magnets to pick up the speed signal. Note that the passive speed sensor supplied with the instrument can read up to 6 pulses.

NOTE Some of the optional accessories might not be available in your country. Contact your local distributor to get more details.

2-1 Wiring installation instruction



MOTE When connecting the power wire, please follow carefully the instruction. If the red & brown wires are connected in parallel, the meter won't work properly.

- The RPM wire installation

 A. Wrap the RPM wire at least 5 times around the spark plug wire.
- A. Wrap the RPM wire at least 5 times around the spark plug wire.
 A1. Use adhesive tape to attach the RPM wire (Type A) onto the spark plug cap.
 A3. Use adhesive tape to attach the RPM wire (Type A) on the spark plug cap.
 A3. Use adhesive tape to attach 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) on the spark plug wire by connecting the male and female connectors.
 C. Connect the RPM wire (Type A) to the pick up sensor.
 D. 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.)
 E. For the applications with the new model of ignition coil, please wrap the RPM wire (Type A) at least 5 times around the spark plug as shown on the above drawing.

- shown on the above drawing.

 F. Use the method mentioned above to install the RPM wire, and then connect the ground wire to the bike body or the engine (must be 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

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Put the magnet into the brake disc screw hole.



Install the s type sensor bracket.



Adjust the sensor bracket position to make sure the sensor is facing the magnet to prevent bad speed signal.



Install the speed sensor on the bracket.





Higher number of magnets installed on the disk brake will result in a faster speed display on the gauge. The letter "N" on the magnets must face the speed sensor in order to pick up correctly the speed.

- EX 1: If the disk brake has 3 screws, you can install 1 or 3 magnets.
- EX 3: If the disk brake has 5 screws, you can install 1 or 5 magnets.
- EX 4: If the disk brake has 6 screws, you can install 1,2,3 or 6 magnets.
- EX 2: If the disk brake has 4 screws, you can install 1,2 or 4 magnets.



speed signal, the distance between the speed sensor and magnet should be under 3 mm.



3 - 1 Basic function instruction

Tachometer

●Display range: 0~10,000 RPM

Telltales

- Turn signal (Green)

 Warning (Red)
- Neutral (Green)
- ●High beam (Blue)

Fuel Level

- Display range: 6 levels.
- •The fuel level begins to flash when only 1 level is left.

MAX record The meter will record automatically





Shift light

- Setting range: 1,000~15,000 RPM
- Setting unit: 100 RPM
- •Warning: Light on (F-OFF), Flash (F-ON)

Speedometer

• Display range: 0~360 km/h (0~225 MPH)

• Display unit: km/h or MPH (settable)

Odometer

- Display range: 0~99999 km (mile), reset automatically after 99999 km.
- Oisplay unit: 1 km (mile).

Trip meter A.B

- ●Display range: 0~999.9 km (mile), reset automatically after 999.9 km.
- Display unit: 0.1 km (mile).

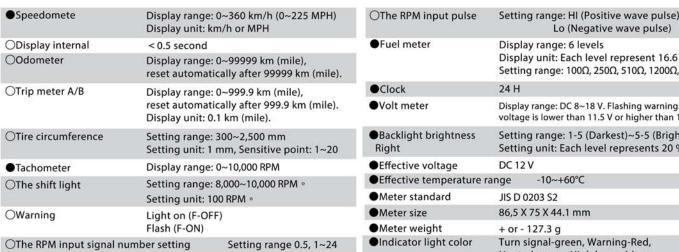
Clock

●24H

Volt meter

- ●Display range: DC 8~DC 18 V
- Flashing warning when voltage is lower than 11.5 V or higher than 15.5 v.





	OTHE RPM Input pulse	Lo (Negative wave pulse)		
	●Fuel meter	Display range: 6 levels Display unit: Each level represent 16.6 % Setting range: 100Ω , 250Ω , 510Ω , 1200Ω , SW		
	●Clock	24 H		
	●Volt meter	Display range: DC 8~18 V. Flashing warning when voltage is lower than 11.5 V or higher than 15.5 v.		
	Backlight brightnessRight	Setting range: 1-5 (Darkest)~5-5 (Brightest) Setting unit: Each level represents 20 %		
	●Effective voltage	DC 12 V		
	●Effective temperature range -10~+60°C			
	 Meter standard 	JIS D 0203 S2		
	●Meter size	86,5 X 75 X 44.1 mm		
	Meter weight	+ or - 127.3 g		
	●Indicator light color	Turn signal-green, Warning-Red, Neutral-green, High beam-blue		

NOTE Design and specifications are subject to change without notice!

3-3 Button function instruction

Press the Select button

3-2 Functions

- 1.In main screen, press the Select button to enter the MAX record display.
- 2.In setting screen, press the Select button to choose the function you want to

Hold the Select button for 3 seconds

1.In setting screen, hole pressing the Select button for 3 seconds to go back to the main screen

Press the Adjust button

- 1.In main screen, press the Adjust button to choose the odometer, trip A, trip B, clock, volt.
- 2.In the setting screen, press the Adjust button to change the setting numbers. If you keep pressing down the Adjust button the number will increase quikly.

Hold the Adjust button for 3 seconds

- 1.In the main screen, hole the Adjust button for 3 seconds to reset the trip A, trip B and the MAX record.
- 2.In the ODO screen, hole the Adjust button for 3 seconds to switch between the km/h and mile/h.

Hold the Adjust button

1.In the setting screen, hold the Adjust button to add quikly the set value.

Hold the Select + Adjust buttons for 3 seconds

1.In the main screen, hold the Select+Adjust buttons at the same time for 3 seconds to enter the setting screen

3-4 Main function instruction (Select button)



- ●In main screen (ODO). Press the Select button one time to enter the Max. record screen.
- Hold the Adjust button for 3 seconds to reset Max. record.







In Max. record screen. Press the Select button one time to go back to the main screen (ODO).



Main screen

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3-5 Main function switch instruction (Adjust button)



- ●In main screen (ODO). Press the Adjust button one time to enter the trip A screen.
- Hold the Adjust button for 3 seconds to reset Trip A.





- In Trip A screen. Press the Adjust button one time to enter the trip B screen.
- Hold the Adjust button for 3 seconds to reset Trip B.





In Trip B screen. Press the Adjust button one time to enter the clock screen.

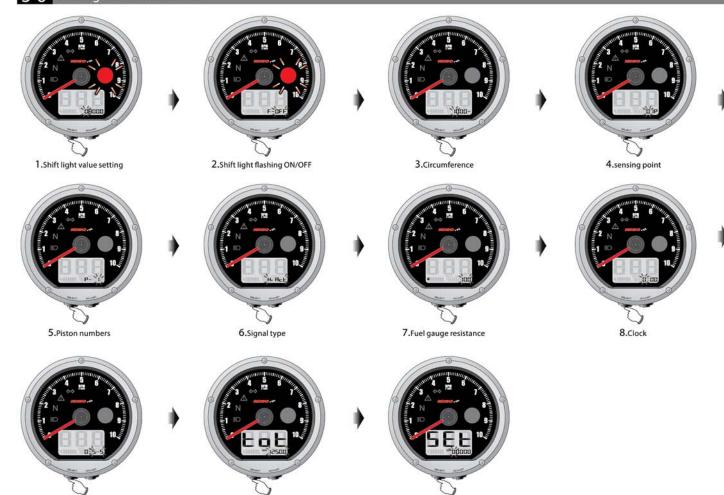


•In the clock screen. Press the Adjust button one time to enter the volt



• In the volt screen. Press the Adjust button one time to go back to the main screen

3-6 Setting screen instruction



11.Extenal ODO setting

⚠ The screen will return to the main screen after 30 seconds if no button is press.

10.Internal ODO display

9.Backlight brightness

4 Entering setting screen



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

4-1 Shift light setting

- ●EX. Set the shift light at 8,500 RPM.
- Press the Select button to move to the digit you want to set.



Press the Adjust button to change the



Note Setting range: 1000~10,000 RPM Setting unit: 100 RPM



- Press the Select button one time to enter the shift light warning setting
- ●EX. The shift light is set from 8,000 RPM to 8,500 RPM.

4-2 Shift light warning setting



- ●EX. To set F-ON (Flashing ON) shift light warning.
- Press the Adjust button to change the setting value.





- Press the Select button once to enter the tire circumference setting screen.
- EX. The shift light warning is set form F-OFF to F-ON.

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



Press the Adjust button to change the



Note Setting range: 300~2500. Setting unit: 1mm

A CAUTION!

- Measure the circumference of tire which the sensor will be installed and keep note of the number of sensor points.
- The speed displayed on the meter will be affected by the setting. Make sure the tire size and the number of sensor point is correct before you set the value.





- Press the Select button one time to enter the sensor point setting screen.
- ●EX. Now the tire circumference is set from 1,000 to 1,300 mm.



4-4 Sensor point setting

- EX. If the sensor point is set at 06P.
- Press the Select button to move to the digit you want to set.



Press the Adjust button to change the



Note Setting range: 01P~20P. Setting unit: 01P.



- Press the Select button once to enter the piston numbers setting screen.
- ●EX. The sensor point is now set from 01P



4-5 Pistion numbers setting



- ●EX. You want to connect the RPM signal wire to the pick up signal and there are 13 flywheel signals per turn. Press the Adjust button to change
- the value



Note Setting range: 0.5, 1~24.

The setting value	The corn stroke and p	esponding istons 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 ignition.
2	2C-2P	4C-4P	1 RPM signal per 2 ignition.
2.5		4C-5P	2 RPM signals per 5 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	2 RPM signals per 10 ignition.
6	2C-6P	4C-12P	1 RPM signal per 6 ignition.

A 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.



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



- Press the Select button once to enter the backlight brightness setting screen.
- EX. The clock has been set from 0:00 to 0:05.



4-6 Signal type setting

●EX. Change the setting to Lo. Press the Adjust button to change the



- 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.



- Press the Select button once to enter the fuel resistance setting screen.
- ●EX. The input pulse setting as been changed from Hi to Lo.



4–7 Fuel gauge resistance setting

- ●EX. The fuel gauge need to be set to
- Press the Adjust button to change the setting



Note The fuel gauge resistance setting range: 100Ω , 250Ω , 510Ω , 1200Ω , SW (turn off).

Note When Fuel Setting is set to "SW", the fuel level symbol will light up when fuel level signal wire connected to the negative (-) wire



- Press the Select button once to enter the clock setting screen.
- ●EX. The setting has been changed from 100Ω to 510Ω .



4-8 Clock setting

- EX. Set the clock at 0:05.
- Press the Select button to move to the digit you want to set.



 Press the Adjust button to change the value.



Note This is a 24 H clock.



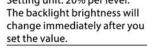
4-9 Backlight brightness setting

- ●EX. Change the brightness to 3-5 (60% brightness.)
- Press the Adjust button to change the value.





Note Setting range: 1-5 (Darkest) ~ 5-5 (Brightest), 5 different levels available. Setting unit: 20% per level.





- Press the Select button once to enter the odometer display screen.
- ●EX. The backlight brightness has been set from 5-5 to 3-5



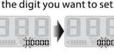
4-10 Odometer display

- Press the Select button one time to enter the external odometer setting
- EX. The internal odometer display is 12500 km.



4-11 Odometer display

- ●EX. Set the odometer to 5000 km (mile).
- Press the Select button to move to the digit you want to set.



Press the Adjust button to change









- Press the Select button once to go back to the main screen.
- ●EX. The odometer setting has been changed from 0 to 5,000 km (mile).



Back to main screen

6 Trouble shooting

The following situation do not necessary indicate malfunction of the meter.

Please check the following before taking it in for repair.					
Trouble	Check item				
The meter doesn't work when the power is on.	 The power is not supplied properly to the meter. → Make sure the wiring harness is connected correctly. The wires and fuse might be broken. → The battery is too old to supply enough DC 12V power to make the meter work. 				
The meter shows wrong information.	 Check the voltage of your battery and make sure the voltage is over DC 12V. 				
Speed does not appear or appear incorrectly.	 Make sure the speed sensor is connected properly. Check the tire-size setting. →Refer to the manual 4-3 & 4-4. 				
Tachometer does not appear or appear incorrectly.	● Check the RPM wire is connected correctly. ● Check if the spark plug is a "R" type. If not, replace the spark plug with the "R" type spark plug. ● Check your setting. → Please refer to the manual 4-4 & 4-6.				
Fuel gauge does not appear or appear incorrectly.	 Check your fuel tank. →Is there any fuel inside the tank? Check the wiring harness. →Is the wire connected properly? Check the setting. →Refer to the manual 4-7. 				
The clock is incorrect.	◆Did you connect the wires correctly →Check the positive wire (Red) connectsed to the battery, and the main positive wire (Brown) connected to the main switch.				

If still the problem still can't be solve, please contact your local distributor to get assistance.

