



• Thank you for purchasing the our product. Before installing, please read the instruction carefully and keep it for future reference.

## Notice

- Please, follow the step-by-step instructions for proper installation. Any damages caused by faulty installation shall be imputed to the users.
- To avoid a short circuit, do not pull the wires when installing the unit. Do not break or modify the wires either.
- Do not disassemble or change any parts.
- Maintenance and repairs should be executed by our professionals only.

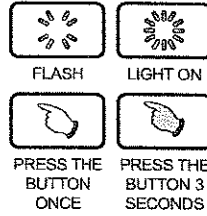
©Mark Meaning:

**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 Accessories

<b>1</b> Meter X 1	<b>2</b> Main wiring harness X 1	<b>3</b> RPM wire (TYPE A) X 1	<b>4</b> RPM wire (TYPE B) X 1
<b>5</b> Active speed sensor X 1	<b>6</b> M8 / S type speed sensor bracket X 1	<b>7</b> M10 / S type speed sensor bracket X 1	<b>8</b> M5 X 5L mm Hexagon screw X 2
<b>9</b> 4 mm Allen key X 1	<b>10</b> 3 mm Allen key X 1	<b>11</b> 2.5 mm Allen key X 1	<b>12</b> Meter bracket X 1
<b>13</b> M5 X 12L screw X 2	<b>14</b> M4 X 10L screw X 2	<b>15</b> M4 washer X 2	

**NOTE** Contact your local distributor, if the items received in the box are not the same as the items listed above.

## 1-2 Accessories

<b>1</b> Digital speed signal sensor (JIS TYPE A)	<b>2</b> Digital speed signal sensor (RUNNER)	<b>3</b> Digital speed signal sensor (SR X-FIGHT BOOSTER)	<b>4</b> L TYPE speed sensor basket
<b>5</b> Meter bracket			

**NOTE** Some of the optional accessories may not be available in your area. Contact your local distributor to obtain more information.

## 2-1 Wiring installation instructions

**Orange - L turn signal light (+12 V)**  
**Blue - R turn signal light (+12 V)**  
**Yellow - High beam light (+12 V)**  
**Gray - Oil light (+12 V / -)**  
**White - Neutral light (-)**  
**Green - Fuel**  
**Purple - Engine light (-)**  
**Yellow / White - Water temperature light (-)**

**Mid-way connector**  
**Red - Positive pole (Connect to the battery DC 12V)**  
**Brown - Positive wire should be connect to main power switch**  
**Black - Ground wire connect to the negative pole of the battery (must be a good ground)**

**Brown / Red - RPM wire please connect it to the suitable position according to the models**  
**Connect to speed sensor**  
**Active speed sensor (Accessories 5)**

**Main power switch wire reference:**

	Power	Key on	Ground
YAMAHA	Red	Brown	Black
HONDA	Red	Red / Black	Green
SUZUKI		Black	Green
KAWASAKI	White	Brown	Black / Yellow
KYMC0	Red	Black	Green
SYM	Red	Black	Green
PGO	Red / White	Orange	Black

**RPM wire reference:**

	Power	Key on	Ground
YAMAHA	Yellow / Black	BUELL	Pink
HONDA	Yellow / Green	CAGIVA	Gray / Green
SUZUKI	Yellow / Blue	DUCATI	Gray / Green
KAWASAKI	Light Blue	H-D	Pink
APRILIA	Gray / Violet	MV	Gray / Yellow
BMW	Black	TRIUMPH	Red
BENELLI	Gray / Violet		

**Fuel indicator wire reference:**

	Power	Key on	Ground
YAMAHA	Green	KYMC0	Yellow / White
HONDA	Yellow / White	SYM	Yellow / White
SUZUKI	Yellow / White	PGO	Gray
KAWASAKI	Black / L Green		

**NOTE** The color listed above may differ depending on the model and year.

**NOTE** The fuel sensor is electronic type, do not connect in parallel with the original wire - otherwise the fuel gauge won't display. The wrong installation of the fuel wire might damage the instrument.

**NOTE** 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.

**NOTE** Motor oil indicator can be set up, install as two stroke motor oil indicator, or other positive(+12V) or negative actions' indicator.

**△** The RPM wire installation  
 We recommend installing the R type spark plug or low-resistance spark plug cap at the same time.  
**A.** Connect the RPM wire (Type A) on the spark plug wire by connecting the male and female connectors.  
**B.** Connect the RPM wire (Type B) to the pick up sensor.  
**C.** Connect in parallel the RPM wire (Type A) with the original tachometer signal wire.  
**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 instruction

**When installing, please follow the steps below.**

1. M5 x 12L screw x2 (Accessories 13)
2. Meter bracket for handle bar (Accessories 12)
3. Fix the bracket on handle bar (7/8 inch)
4. Bracket x1 (Accessories 12)
5. Meter (Accessories 1)
6. Meter board (Accessories 12)
7. M4 washer x2 (Accessories 15)
8. M4 x 10L screw x2 (Accessories 14)

**NOTE** Adjust the meter to the proper angle before tightening the handle bar bracket screws.

**Special instruction for meter fix board.**

**A.** Push meter bracket clip up to lock meter fix board (with meter) on bracket

**B.** Push meter bracket clip down to release meter fix board (with meter) on bracket



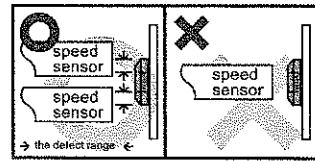
The active speed sensor could be installed by the metal parts to detect the speed.

- EX. 1 The disc screw.
- EX. 2 The disc to detect the disc gap. (Please make sure the distances between the gaps are the same in advance to avoid wrong speed signal.)
- EX. 3 The sprocket to detect the disc gap. (Please make sure the distances between the gaps are the same in advance to avoid wrong speed signal.)
- EX. 4 Rear disc - detect the gap between the disc.

We will suggest you to catch the speed from the disc screws. The more the sensor points are, the better the speed accuracy is. The maximum sensor points the speed sensor could detect is 20 points per turn.

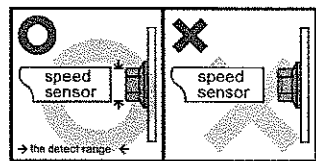
After installation, please use your hand to turn the tire to see is everything ok. The LED on the active speed sensor will light up once the signal is detected.

EX. 1



**The hexagon socket disc screw**  
The best detect area: The edge of the hexagon socket screw.

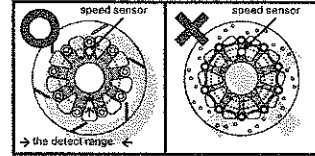
Please don't catch the signal from the middle hole of the hexagon socket screw to avoid wrong signal.



**The hexagon screw**  
The best detect area: The middle of the screws.

Some hexagon screw center is with a small hole in the center. In this case, we will suggest you to catch the signal from the edge of the screw like the hexagon socket screw.

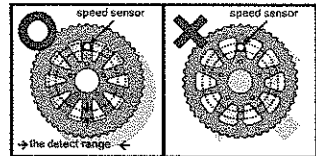
EX. 2, 4



**The disc**  
The best detect area: Please detect the speed signal from the gaps of the disc.

Please note that there are discs with the gaps in different difference, and this method will not work on it!

EX. 3



**The sprocket**  
The best detect area: Please detect the speed signal from the gaps of the sprocket.

Please note that there are sprockets with the gaps in different difference, and this method will not work on it!

### 3-1 Basic function instruction

**Maximum speed record**

- Display range : 0 ~ 360 km/h (0 ~ 225 mile)
- **Maximum RPM record**
- Display range : 0 ~ 15,000 RPM

**Average speed record**

- Recording range : 0 ~ 360 km/h (0 ~ 225 MPH)

**Tachometer**

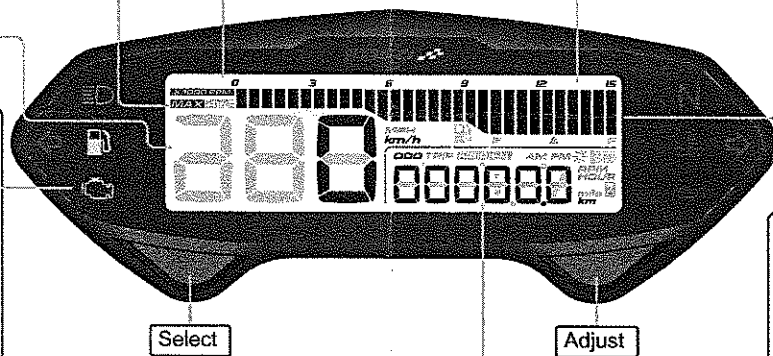
- Display range : 0 ~ 10,000 RPM · 0 ~ 12,000 RPM · 0 ~ 15,000 RPM

**Speedometer**

- Display range : 0 ~ 360 km/h (0 ~ 225 mile)

**Indication light**

- Neutral (green light) N
- Right indication light (green light) →
- Water temperature (red light) ̄
- Motor oil (red light) ̄
- Engine (yellow light) ̄
- Fuel (yellow light) ̄
- Left indication light (green light) ←
- High beam light (blue light) ̄



**Fuel Level**

- Setting range : 100Ω · 250Ω · 270Ω · 510Ω · 1200Ω · SWITCH · USER

**Low fuel warning**

- Setting range : 10 ~ 50%, when lower than (including) setting value, fuel level symbol will blink.

**Total engine operating time**

- Display range : 0~99,999.9 hours
- Display unit : 0.1 hour

**Engine operating time A,B**

- Display range : 0~9,999.9 hours
- Display unit : 0.1 hour

**Odometer**

- Display range : 0 ~ 99999.9 km (mile), return to zero upon exceed.
- Display unit : 0.1 km (mile)

**Trip meter A · B**

- Display range : 0 ~ 999.9 km (mile), return to zero upon exceed.
- Display unit : 0.1 km (mile)

**Tachometer**

- Display range : 0 ~ 15,000 RPM
- Display unit : 10 RPM

**Voltmeter**

- Display range : DC 8.0 V ~ 16.0 V
- Display unit : 0.1 V

**Clock format**

- Setting range : 12 - hrs format, 24 - hrs format.

**Clock**

- Setting range : 0 : 00 ~ 23 : 59 (24 - hrs format), 1 : 00 ~ 12 : 59 (12 - hrs format)

**Motor oil maintenance millage**

- Display range : SI unit : 500 (~ 8,000 km, user adjustable) ~ -999 km, automatic decrease according to the increase of total millage.
- Display range : Inch : 300 (~ 5,000 mile user adjustable) ~ -999 mile, automatic decrease according to the increase of total millage.
- Display unit : 1 km (mile)

**Internal ODO**

- Display range : 0 ~ 99,999.9 km (mile), user unadjustable.
- Display unit : 0.1 km (mile)

**External ODO**

- Setting range : 0 ~ 99,999 km (mile)
- Setting unit : 1 km (mile)

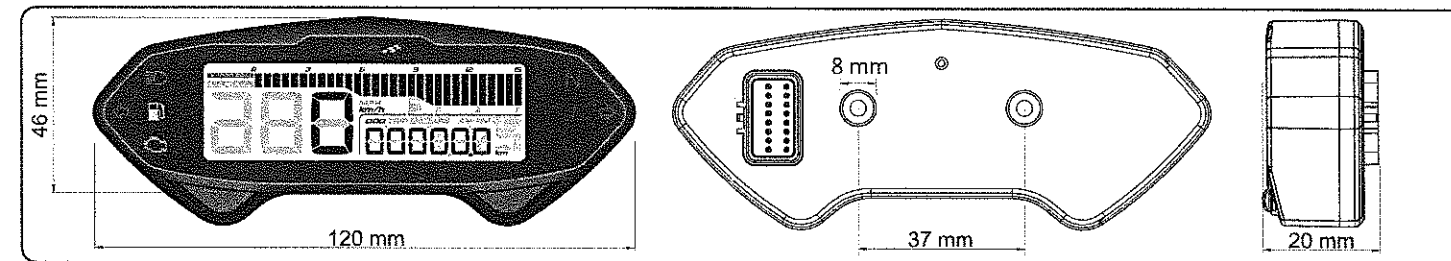
### 3-2 Function, setting instructions

- **Speedometer** Display range : 0 ~ 360 km/h (0 ~ 225 MPH) Will blink when exceed range. Display unit : 1 km (mile)
- **Display internal** <0.5 second
- **Odometer** Display range : 0 ~ 99,999.9 km (mile), return to zero upon exceed. Display unit : 0.1km (mile)
- **Trip meter A · B** Display range : 0 ~ 999.9 km (mile), return to zero upon exceed. Display unit : 0.1km (mile)
- **Motor oil maintenance millage** Display range : SI unit : 500 (~8000 km, user adjustable) ~ -999 km, automatic decrease according to the increase of total millage. Display range : Inch : 300 (~ 5000 mile user adjustable) ~ -999 km, automatic decrease according to the increase of total millage. Display unit : 1 km (mile)
- **Maximum speed record** Display range : 0 ~ 360 km (0 ~ 225 mile) Display unit : 1 km (mile)
- **Average speed record** Recording range : 0 ~ 360km/h (0 ~ 225 MPH)
- **Tire circumference** Setting range : 300 ~ 2,500 mm Setting unit : 1 mm
- **Sensitive point** Setting range : 1 ~ 20 points Setting range : 1 point
- **Tachometer** Display range : 0 ~ 15,000 RPM Display unit : 10 RPM
- **Display internal** <0.5 second
- **Stage tachometer** Display range : 0 ~ 10,000 RPM · 0 ~ 12,000 RPM · 0 ~ 15000 RPM Display unit : 0 ~ 10,000 RPM (333 RPM each stage) 0 ~ 12,000 RPM (400 RPM each stage) 0 ~ 15,000 RPM (500 RPM each stage)
- **MAX RPM record** Display range : 0 ~ 15,000 RPM Display unit : 10 RPM
- **The RPM input signal number setting** Setting range : P-0.5, P-1~P-25
- **The RPM input pulse** Setting range : lo-Act, Hi-Act
- **Total hour meter** Display range : 0 ~ 99,999.9 hour Display unit : 0.1 hour
- **Hour meter A · B** Display range : 0 ~ 9,999.9 hour Display unit : 0.1 hour

- **Fuel level** Setting range : 100Ω · 250Ω · 270Ω · 510Ω · 1200Ω · SWITCH · USER
- **Staged fuel gauge** Setting range : 10 stage display Warning range : Fuel level warning stage below (including) setting value, fuel level symbol will blink.
- **Digital fuel gauge** Setting range : 0 ~ 100 % Setting unit : 10 %
- **Low fuel warning** Setting range : 10 ~ 50 %, when lower than (including) setting value, fuel level symbol will blink. Setting unit : 10%
- **Volt meter** Display range : DC8.0 V ~ 16.0 V Display unit : 0.1V
- **Clock format** Setting range : 12-hrs format, 24-hrs format
- **Clock (hours)** Setting range : 0 ~ 23 (24-hrs format), 1 ~ 12 (12-hrs format) Setting unit : 1 hour
- **Clock (minute)** Setting range : 00:59 minutes Display range : 1 minute
- **Internal ODO** Display range : 0~99999.9 km (mile), user unadjustable Display unit : 0.1 km (mile)
- **External ODO** Setting range : 0~99999 km (mile) Setting unit : 1km (mile)
- **Backlight color** Display range : white
- **Effective voltage** DC 12 V
- **Effective temperature range** +60 °C
- **Meter standard** JIS D 0203 (S2)
- **Meter size** 120 x 46 x 20 mm
- **Meter weight** Around 240 g
- **Indicator light** Neutral (green light) N  
Right indication light (green light) →  
Water temperature (red light) ̄  
Motor oil (red light) ̄  
High beam light (blue light) ̄  
Left indication light (green light) ←  
Fuel (yellow light) ̄  
Engine (yellow light) ̄

NOTE Any design and specification changes will not be notify.

### 3-3 Meter size



### 3-4 Select button function instruction

