# CATEYE
# STRADA WIRELESS

CYCLOCOMPUTER

CC-RD310W

✹ **Before using the computer, please thoroughly read this manual and keep it for future reference.**
**Please visit our website, where detailed instructions with movies are available and the instruction manual can be downloaded.**

## ⚠ Warning / Caution

• Do not concentrate on the computer while riding. Ride safely!

• Install the magnet, sensor, and bracket securely. Check these periodically.

• If a child swallows a battery, consult a doctor immediately.

• Do not leave the computer in direct sunlight for a long period of time.

• Do not disassemble the computer.

• Do not drop the computer to avoid malfunction or damage.

• When you press the **MODE** button with the computer installed to the bracket, press around the dot section on the surface of the computer. Pressing strongly the other section may result in malfunction or damage.

• When cleaning the computer, bracket and sensor, do not use thinners, benzene, or alcohol.

• Risk of explosion if battery is replaced by an incorrect type.
  Dispose of used batteries according to local regulations.

• LCD screen may be distorted when viewed through polarized sunglass lenses.

## Wireless Sensor

The sensor was designed to receive signals within a maximum range of 60 cm, to reduce chance of interference.
When adjusting the wireless sensor, note the following:

• Signals cannot be received if the distance between the sensor and the computer is too large.

• The receiving distance may be shortened due to low temperature and exhausted batteries.

• Signals can be received only when the back of the computer is facing the sensor.
Interference may occur, resulting in incorrect data, if the computer is:

• Near a TV, PC, radio, motor, or in a car or train.

• Close to a railroad crossing, railway tracks, TV stations and/or radar base.

• Using with other wireless devices, or some particular battery lights.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Modifications**
The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by CatEye Co., Ltd. May void the user 's authority to operate the equipment.

Hereby, CATEYE Co., Ltd., declares that this CC-RD310W is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Battery case cover

MENU

AC

MODE

Dot section

**Perform the All Clear operation, when you use the unit for the first time or restore the unit to the condition checked at the factory.**
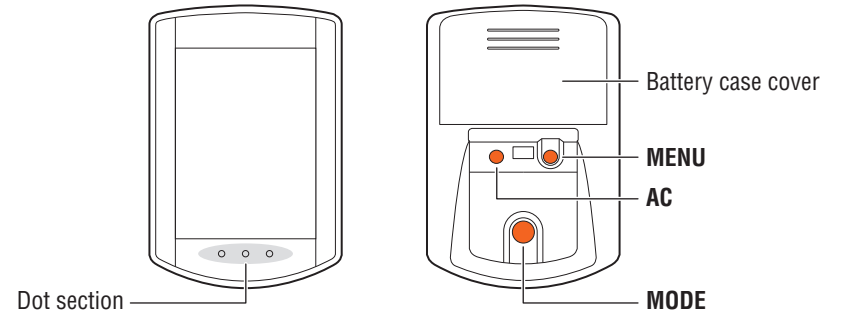
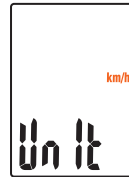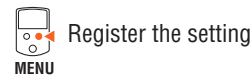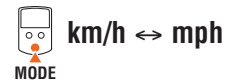## 1 Clear all data (initialization)
Press the **AC** button on the back of the computer.

AC
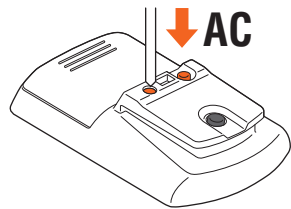
## 2 Select the speed units
Select "**km/h**" or "**mph**".

**km/h ↔ mph**
MODE

Register the setting
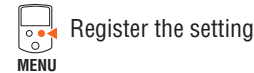MENU

km/h

Un It

## 3 Enter the tire circumference
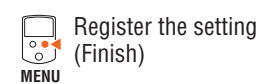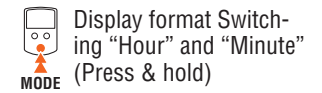Enter the front wheel tire circumference of your bicycle in mm.
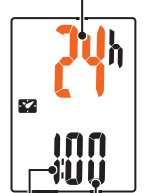* Refer to the "Tire circumference reference table" as a guide.

Increase the value
MODE

Move digits
(Press & hold)
MODE

Register the setting
MENU

km/h

2096

## 4 Set the clock
Pressing and holding the **MODE** button switches the display to "Displayed time", "Hour", and "Minute" in order.

**12h ↔ 24h** or increases the value
MODE

Display format Switching "Hour" and "Minute" (Press & hold)
MODE

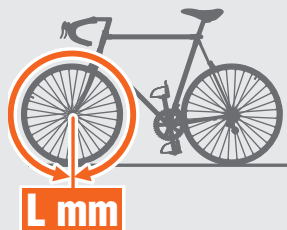Register the setting (Finish)
MENU

Display format

24h

!00

Hour  Minute

## Tire circumference
There are the following ways to determine the tire circumference.

• **Measure the tire circumference (L)**
Measure the distance when the tire turns right round with your weight applied, while adjusting the tire pressure appropriately.
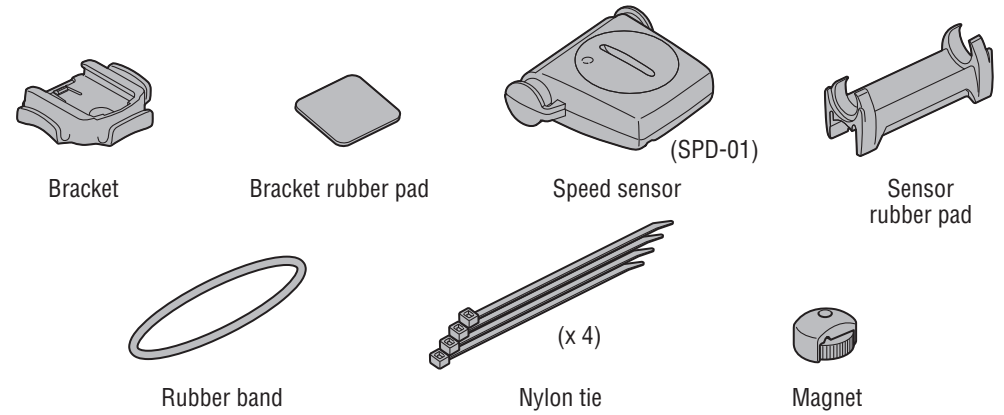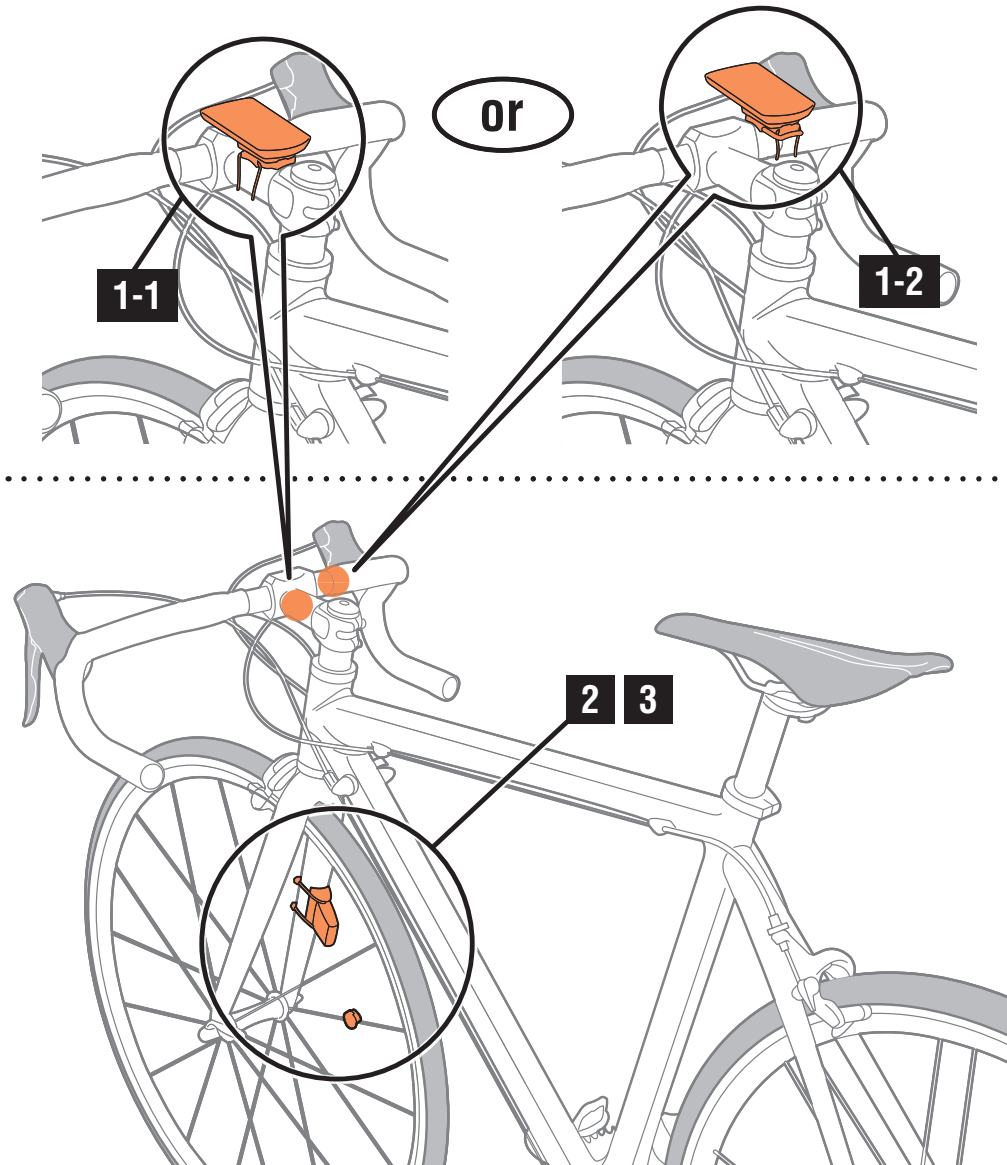
L mm

• **Refer to the tire circumference reference table**
 * Generally, the tire size or ETRTO is indicated on the side of the tire.

| ETRTO | Tire size | L (mm) | ETRTO | Tire size | L (mm) | ETRTO | Tire size | L (mm) | ETRTO | Tire size | L (mm) | ETRTO | Tire size | L (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47-203 | 12x1.75 | 935 | 50-406 | 20x1.95 | 1565 | 47-559 | 26x1.75 | 2023 | 40-584 | 650x38B | 2105 | 32-622 | 700x32C | 2155 |
| 54-203 | 12x1.95 | 940 | 28-451 | 20x1-1/8 | 1545 | 50-559 | 26x1.95 | 2050 | 25-630 | 27x1(630) | 2145 | | 700C Tubular | 2130 |
| 40-254 | 14x1.50 | 1020 | 37-451 | 20x1-3/8 | 1615 | 54-559 | 26x2.10 | 2068 | 28-630 | 27x1-1/8 | 2155 | 35-622 | 700x35C | 2168 |
| 47-254 | 14x1.75 | 1055 | 37-501 | 22x1-3/8 | 1770 | 57-559 | 26x2.125 | 2070 | 32-630 | 27x1-1/4 | 2161 | 38-622 | 700x38C | 2180 |
| 40-305 | 16x1.50 | 1185 | 40-501 | 22x1-1/2 | 1785 | 58-559 | 26x2.35 | 2083 | 37-630 | 27x1-3/8 | 2169 | 40-622 | 700x40C | 2200 |
| 47-305 | 16x1.75 | 1195 | 47-507 | 24x1.75 | 1890 | 75-559 | 26x3.00 | 2170 | 40-584 | 27.5x1.50 | 2079 | 42-622 | 700x42C | 2224 |
| 54-305 | 16x2.00 | 1245 | 50-507 | 24x2.00 | 1925 | 28-590 | 26x1-1/8 | 1970 | 50-584 | 27.5x1.95 | 2090 | 44-622 | 700x44C | 2235 |
| 28-349 | 16x1-1/8 | 1290 | 54-507 | 24x2.125 | 1965 | 37-590 | 26x1-3/8 | 2068 | 54-584 | 27.5x2.1 | 2148 | 45-622 | 700x45C | 2242 |
| 37-349 | 16x1-3/8 | 1300 | 25-520 | 24x1(520) | 1753 | 37-584 | 26x1-1/2 | 2100 | 57-584 | 27.5x2.25 | 2182 | 47-622 | 700x47C | 2268 |
| 32-369 | 17x1-1/4(369) | 1340 | | 24x3/4 Tubular | 1785 | | 650C Tubular 26x7/8 | 1920 | 18-622 | 700x18C | 2070 | 54-622 | 29x2.1 | 2288 |
| 40-355 | 18x1.50 | 1340 | 28-540 | 24x1-1/8 | 1795 | | | | 19-622 | 700x19C | 2080 | 56-622 | 29x2.2 | 2298 |
| 47-355 | 18x1.75 | 1350 | 32-540 | 24x1-1/4 | 1905 | 20-571 | 650x20C | 1938 | 20-622 | 700x20C | 2086 | 60-622 | 29x2.3 | 2326 |
| 32-406 | 20x1.25 | 1450 | 25-559 | 26x1(559) | 1913 | 23-571 | 650x23C | 1944 | 23-622 | 700x23C | 2096 | | | |
| 35-406 | 20x1.35 | 1460 | 32-559 | 26x1.25 | 1950 | 25-571 | 650x25C 26x1(571) | 1952 | 25-622 | 700x25C | 2105 | | | |
| 40-406 | 20x1.50 | 1490 | 37-559 | 26x1.40 | 2005 | | | | 28-622 | 700x28C | 2136 | | | |
| 47-406 | 20x1.75 | 1515 | 40-559 | 26x1.50 | 2010 | 40-590 | 650x38A | 2125 | 30-622 | 700x30C | 2146 | | | |

**Refer to the Quick Start Manual, where you can learn how to install the unit in detail using a movie.**

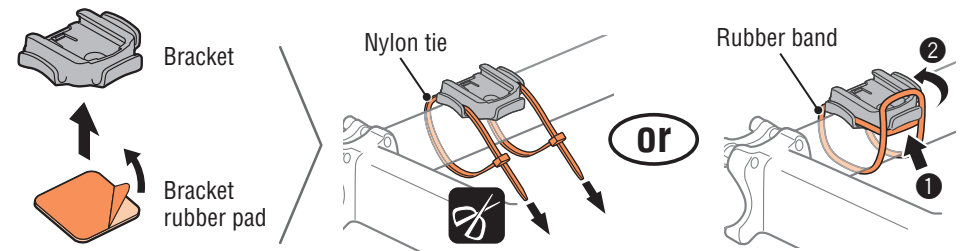http://www.cateye.com/products/detail/CC-RD310W-U/manual/

**or**

1-1

1-2

2 3

Bracket

Bracket rubber pad

Speed sensor
(SPD-01)

Sensor
rubber pad

Rubber band

Nylon tie
(x 4)

Magnet

## Attach the bracket to the stem or handlebar

**1-1   When mounting the bracket to the stem**

Bracket

Bracket
rubber pad

Rubber band

Nylon tie

* Use a nylon tie together-
er to fix it firmly.
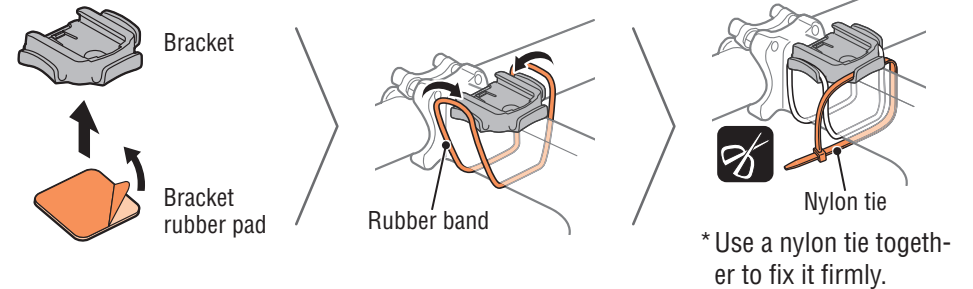
**1-2   When mounting the bracket to the handlebar**

Bracket

Bracket
rubber pad

Nylon tie

Rubber band

❷

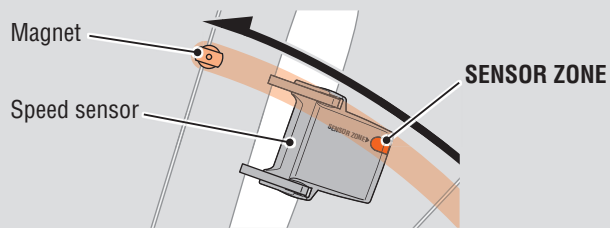**or**

❶

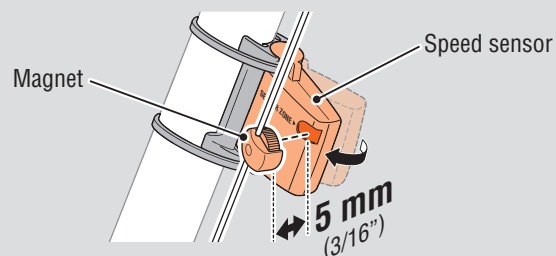## Install the sensor and magnet in a position where the following conditions are satisfied.

**A** The distance from the computer to the sensor is within the transmission data length, and the back of the computer faces downward.
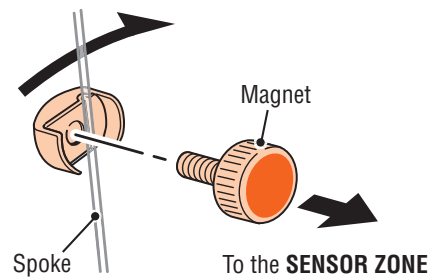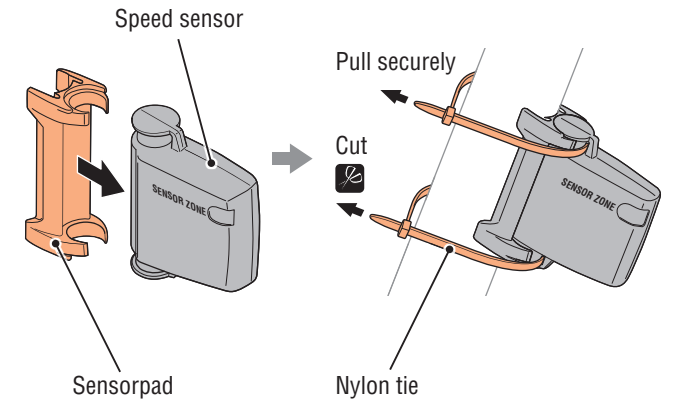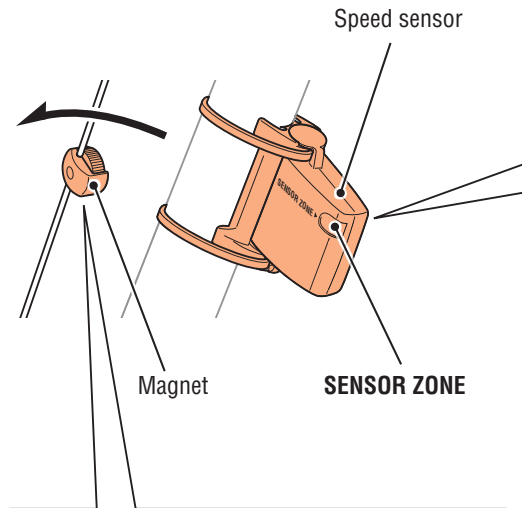
**Mounting on right front fork**    **Mounting on left front fork**



Max.
60 cm
(23-5/8")
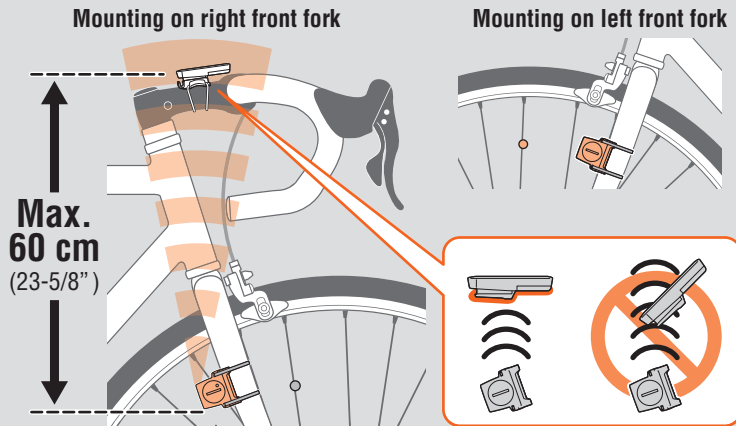
**B** The magnet passes through the sensor zone of the speed sensor.



Magnet
Speed sensor
**SENSOR ZONE**

**C** The clearance between the sensor surface and the magnet is within 5 mm.



Speed sensor
Magnet
**5 mm**
(3/16")

## 2 Install the sensor and magnet



Speed sensor
Speed sensor
Pull securely
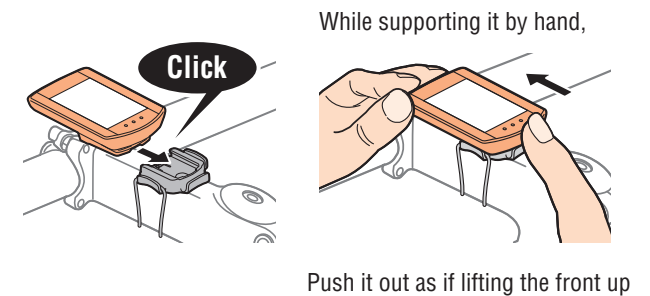Cut
Magnet
**SENSOR ZONE**
Sensorpad
Nylon tie



Magnet
Spoke
To the **SENSOR ZONE**

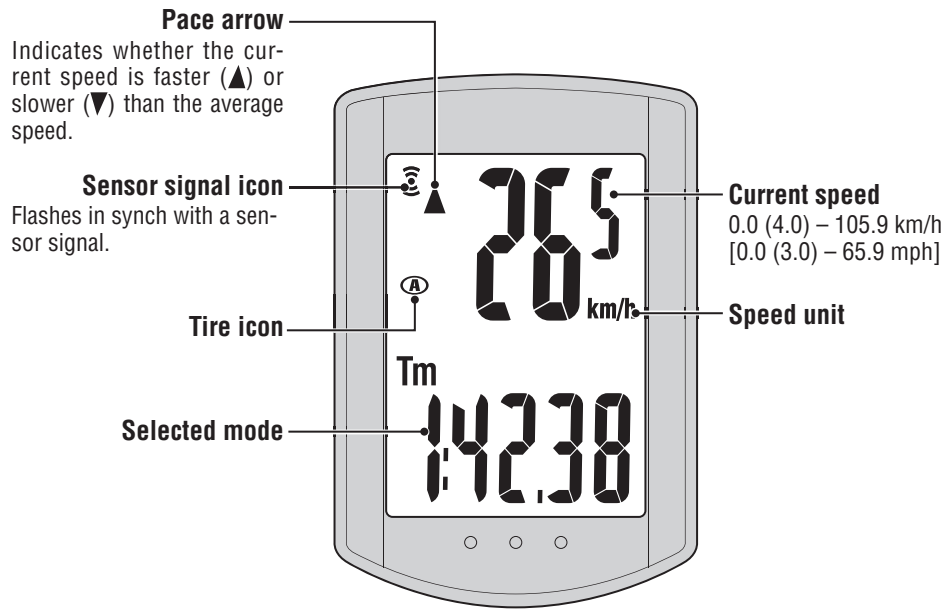\* The wheel magnet may be installed anywhere on the spoke if the installation conditions are satisfied.

## 3 Remove/Install the computer



Click
While supporting it by hand,

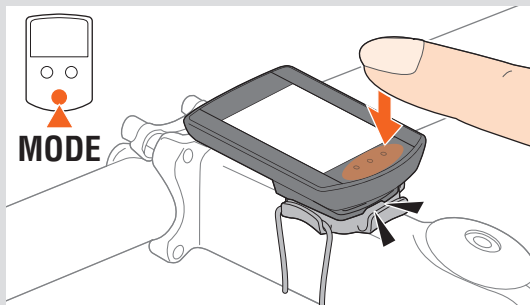Push it out as if lifting the front up

## Positioning and testing

Adjust the sensor magnet so that the conditions of **A**, **B**, **C** are satisfied, and then check the operation by turning the front wheel slowly.
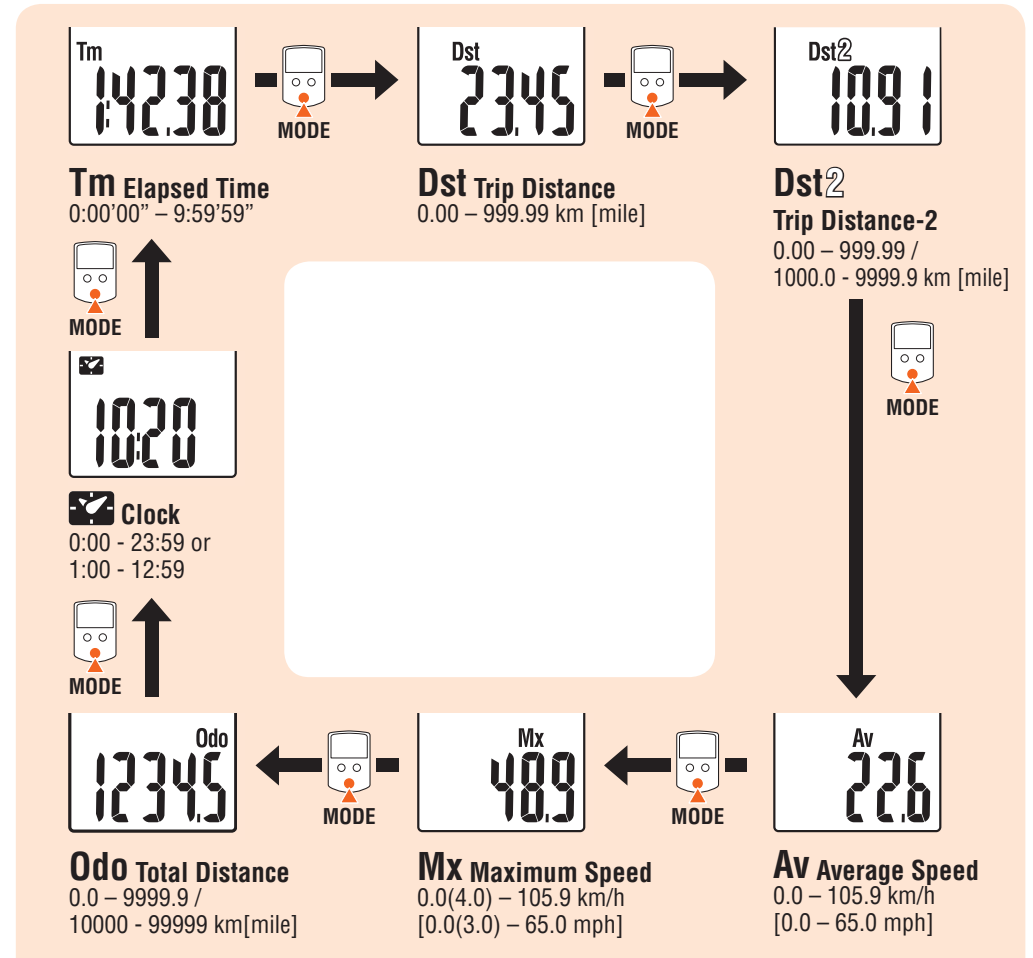
**Pace arrow**
Indicates whether the current speed is faster (▲) or slower (▼) than the average speed.

**Sensor signal icon**
Flashes in synch with a sensor signal.

**Tire icon**

**Selected mode**

**Current speed**
0.0 (4.0) – 105.9 km/h
[0.0 (3.0) – 65.9 mph]

**Speed unit**

**26.5** km/h

**Tm 1:42.38**

## MODE operation when the computer is mounted on the bracket

**MODE**

When the computer is mounted on the bracket, once you press the dot section on the unit, the **MODE** button is pressed.

## Switching computer function

Pressing the **MODE** button switches the selected data at the bottom in the order shown in the following figure.

**Tm 1:42.38** → MODE → **Dst 23.45** → MODE → **Dst2 10.91**

**Tm** Elapsed Time
0:00'00" – 9:59'59"

**Dst** Trip Distance
0.00 – 999.99 km [mile]

**Dst2**
**Trip Distance-2**
0.00 – 999.99 /
1000.0 - 9999.9 km [mile]

**10:20**

**Clock**
0:00 - 23:59 or
1:00 - 12:59

MODE ↑

**Odo 1234.5** ← MODE ← **Mx 48.9** ← MODE ← **Av 22.6**

**Odo** Total Distance
0.0 – 9999.9 /
10000 - 99999 km[mile]

**Mx** Maximum Speed
0.0(4.0) – 105.9 km/h
[0.0(3.0) – 65.0 mph]

**Av** Average Speed
0.0 – 105.9 km/h
[0.0 – 65.0 mph]

**MENU** Pressing **MENU** on the measurement screen changes to the menu screen. Various settings can be changed on the menu screen.
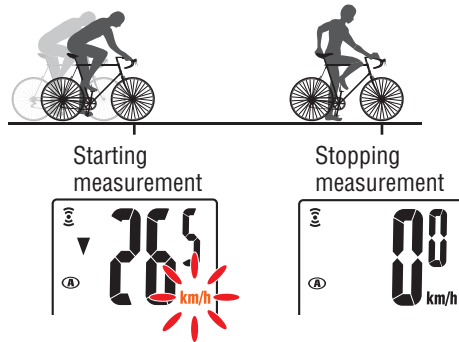
\* The average speed displays **.E** instead of the measurement value, when **Tm** exceeds about 27 hours or **Dst** exceeds 999.99 km. Reset the data.

## Starting / Stopping measurement

The unit automatically measures according to the movement of your bicycle.

The speed unit (**km/h** or **mph**) flashes during measurement.
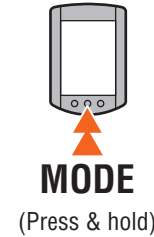
Starting measurement

Stopping measurement

## Resetting data

With the data other than **Dst2** displayed, pressing and holding the **MODE** button returns the measurement data to 0.

With **Dst2** displayed, pressing and holding the **MODE** button returns only **Dst2** to 0.
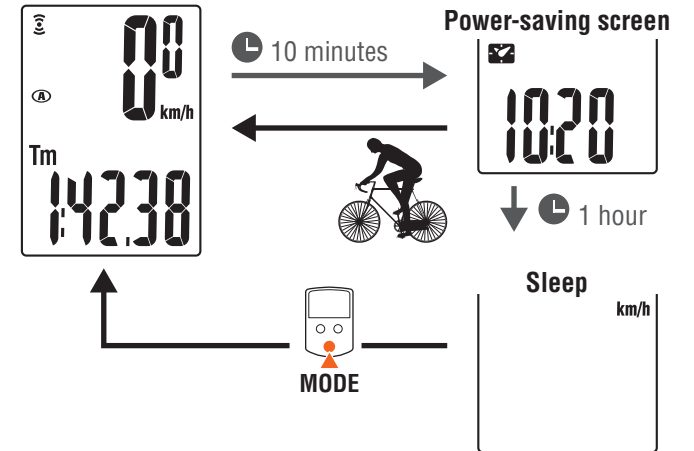
The total distance (**Odo**) cannot be reset.
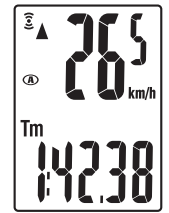
**MODE**

(Press & hold)

## Power-saving function

If the computer has not received a signal for 10 minutes, power-saving screen will activate and only the clock will be displayed.
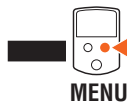
When you press **MODE**, or the computer receives a sensor signal, the measuring screen reappears.

10 minutes

**Power-saving screen**

1 hour

**Sleep**

km/h

**MODE**

If another 60 minutes of inactivity elapses in the power-saving screen, only the speed unit is displayed on the screen. With such a screen, pressing the **MODE** button returns to the measurement screen.

**Measuring screen**

Pressing **MENU** on the measurement screen changes to the menu screen.
Various settings can be changed on the menu screen.
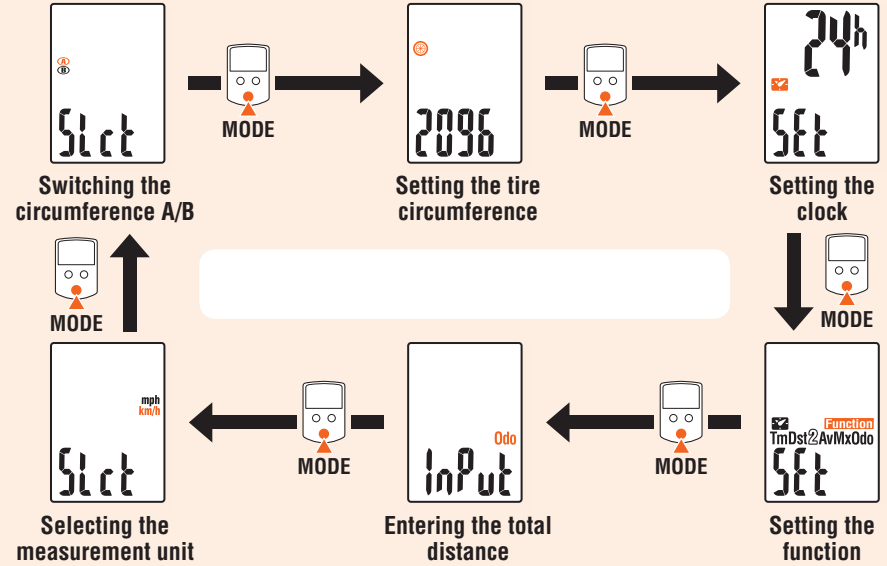
**MENU**

**MENU**

Changing the settings

**MODE** (Press & hold)

With a menu you want to change displayed, once you press and hold the **MODE** button, you can change various setting by the button operation as described.
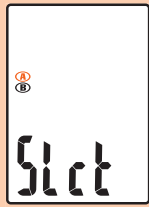
Register the setting

**MENU**

\* After changing, be sure to register the setting(s) by pressing the **MENU** button.

\* Leaving the menu screen without any operation for 1 minutes returns to the measurement screen, and changes are not saved.

## Overview of the menu screen

**Switching the circumference A/B**
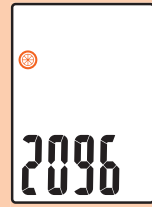
**MODE**

**Setting the tire circumference**

**MODE**

**Setting the clock**

**MODE**

**MODE**

**MODE**

**Selecting the measurement unit**

**MODE**

**Entering the total distance**

**MODE**

**Setting the function**

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From "Selecting the measurement unit"

To "Setting the clock"

## Switching the circumference A/B
The tire to be used (Ⓐ Ⓑ) can be selected.

**MODE**

Changing the settings

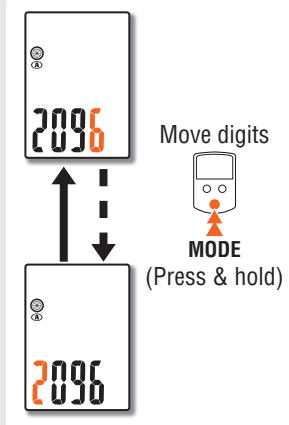**MODE** (Press & hold)

Ⓐ ↔ Ⓑ Switch
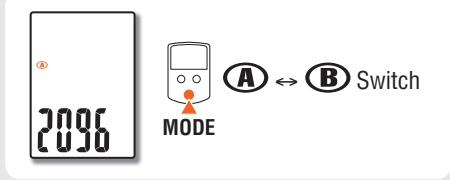
**MODE**

Register the setting

**MENU**

## Setting the tire circumference
Set the tire circumference.

**MODE**

Changing the settings

**MODE** (Press & hold)

Register the setting

**MENU**
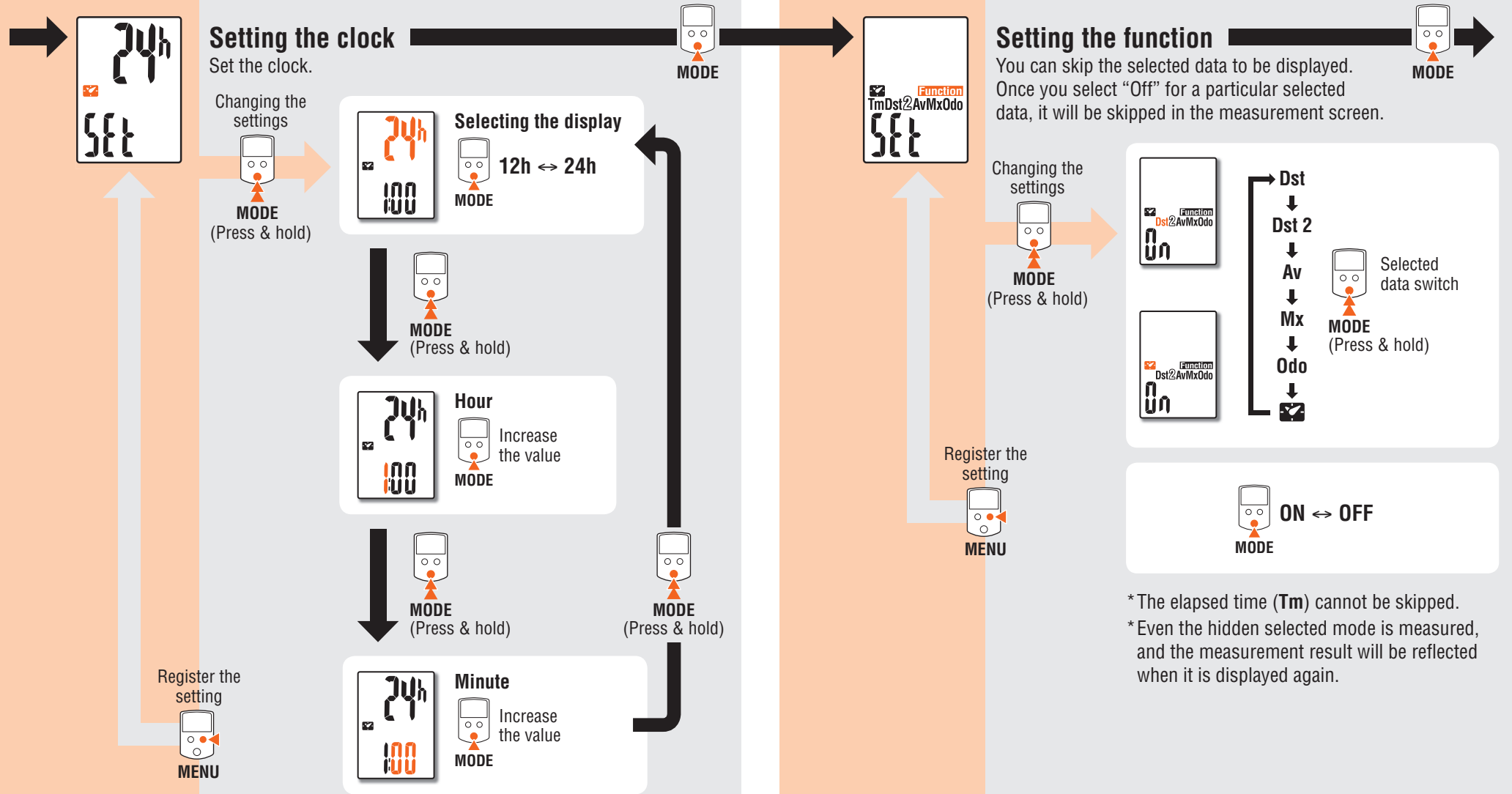
Move digits

**MODE** (Press & hold)
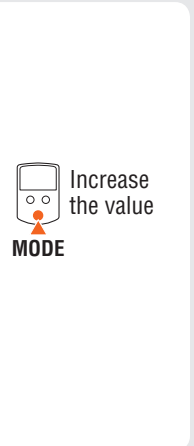
Increase the value

**MODE**

From "Setting the tire circumference"

To "Entering the total distance"

## Setting the clock
Set the clock.

**MODE**

Changing the settings

**MODE**
(Press & hold)

### Selecting the display

**12h ↔ 24h**

**MODE**

**MODE**
(Press & hold)

### Hour
Increase the value

**MODE**

**MODE**
(Press & hold)

**MODE**
(Press & hold)

### Minute
Increase the value

**MODE**

Register the setting

**MENU**

## Setting the function
You can skip the selected data to be displayed.
Once you select "Off" for a particular selected data, it will be skipped in the measurement screen.

**MODE**

Changing the settings

**MODE**
(Press & hold)

Register the setting

**MENU**

Dst
↓
Dst 2
↓
Av
↓
Mx
↓
Odo
↓

Selected data switch

**MODE**
(Press & hold)

**ON ↔ OFF**

**MODE**

*The elapsed time (**Tm**) cannot be skipped.

*Even the hidden selected mode is measured, and the measurement result will be reflected when it is displayed again.

From "Setting the function"

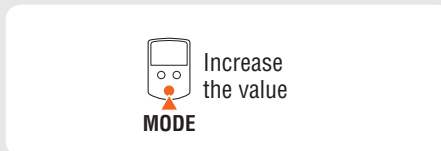To "Switching the circumference A/B"
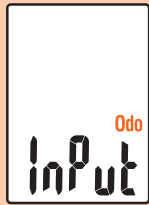
### Entering the total distance

Enter the total distance.
(No decimal number can be entered.)

*Once you enter any value to the total distance, you can start from the value you entered. Use this function when you renew your unit and/or replace the battery.
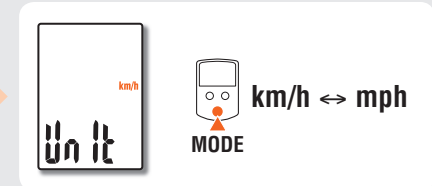
**MODE**

Changing the settings

**MODE**
(Press & hold)

Move digits

**MODE**
(Press & hold)

Increase the value
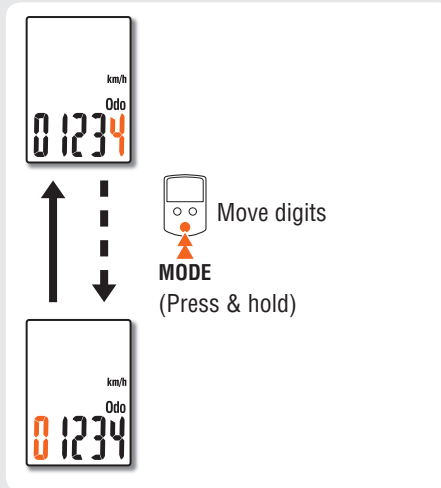
**MODE**

Register the setting

**MENU**

### Selecting the measurement unit

The speed unit (**km/h** or **mph**) can be selected.

**MODE**

Changing the settings

**MODE**
(Press & hold)

km/h ↔ mph

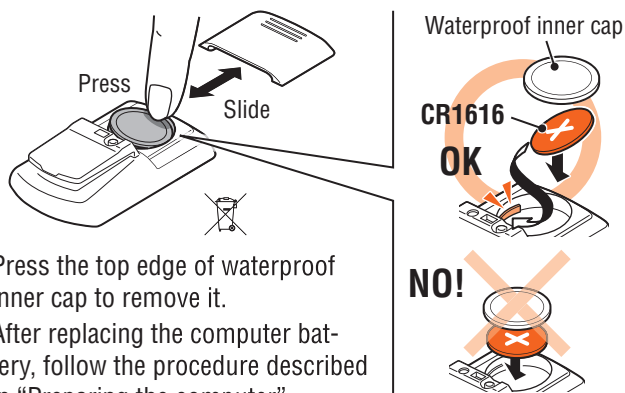**MODE**

Register the setting

**MENU**

## Maintenance

To clean the computer or accessories, use diluted neutral detergent on a soft cloth, and wipe it off with a dry cloth.

## Replacing the battery

### Computer

When the display becomes dim, replace the battery. Install a new lithium battery (CR1616) with the (+) side faced upward.

Press
Slide

Waterproof inner cap

CR1616

**OK**

**NO!**

* Press the top edge of waterproof inner cap to remove it.
* After replacing the computer battery, follow the procedure described in "Preparing the computer"
* Noting the total distance before replacing the battery allows you to start from the total distance you enter manually after replacing it.

### Speed sensor

When the speed is not displayed even after adjusting correctly, replace the battery.
Insert new lithium batteries (CR2032) with the (+) sign upward, and close the battery cover firmly.

CR2032

Close

Open

COIN
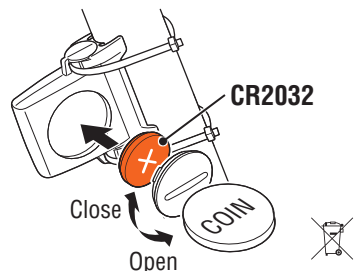
* After replacement, check the positions of the sensor and magnet.

## Troubleshooting

**The sensor signal icon does not flash.
(the speed is not displayed)**

Check that the clearance between the sensor and magnet is not too large. (Clearance: within 5 mm)
Check that the magnet passes through the sensor zone correctly.

Adjust the positions of the magnet and sensor.

Is the computer installed at the correct angle?

Back of computer must face toward the sensor.

Check that the distance between the computer and sensor is correct. (Distance: within 20 to 60 cm)

Install the sensor within the specified range.

Is the computer or sensor battery weak ?
* In winter, battery performance diminishes.
If the computer reacts only when it is close to the sensor, weak batteries may cause it.

Replace with new batteries according to the procedure specified in the section "Replacing the battery".

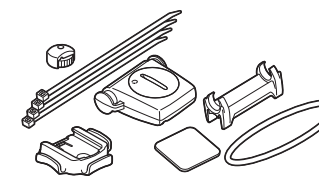**Nothing is displayed by pressing the button.**

Replace the computer battery according to the procedure specified in the section "Replacing the battery".
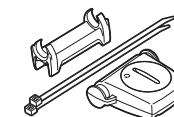
**Incorrect data appear.**

Clear all according to the procedure described in "Preparing the computer".
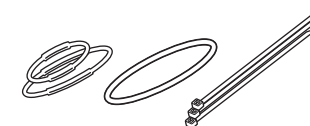All measured data are deleted.

## Standard accessories

**1603894**
Parts kit

**1602196**
Speed sensor
(SPD-01)

**1603893**
Rubber band / nylon tie

**1603892**
Bracket kit
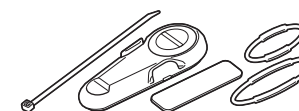
**1699691N**
Wheel magnet

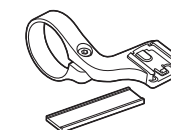**1603850**
Lithium battery
CR1616

**1665150**
Lithium battery
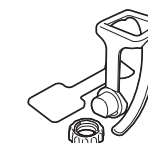CR2032

## Optional accessories

**1603891**
Speed sensor (SPD-02)

**1604100**
Out-front bracket

**1602194**
Bracket kit
(FlexTight™)

**1600280N**
Bracket band
(FlexTight™)

**1602193**
Bracket
(for FlexTight™)

## Specification

| Battery<br>Battery life | Computer | Lithium battery (CR1616) x 1 Approx. 1 year<br>(If the computer is used for 1 hour/day; the battery life will vary depending on the conditions of use.) |
|---|---|---|
| | Speed sensor | Lithium battery (CR2032) x 1<br>Distance reaches about 10000 km (6250 mile) |

\* This is the average figure of being used under 20 °C temperature and the distance between the computer and the sensor is 60 cm.

\* The factory-loaded battery life might be shorter than the above-mentioned specification.

| Controller | 4 bit, 1-chip microcomputer<br>(Crystal controlled oscillator) |
|---|---|
| Display | Liquid crystal display |
| Sensor | No contact magnetic sensor |
| Transmission distance | Between 20 and 60 cm |
| Tire circumference range | 0100 mm - 3999 mm<br>(Initial value: A = 2096 mm, B = 2096 mm) |
| Working temperature | 0 °F - 104 °F (0 °C - 40 °C)<br>(This product will not display appropriately when exceeding the Working Temperature range. Slow response or black LCD at lower or higher temperature may happen respectively.) |

| Dimensions/<br>weight | Computer | 1-55/64" x 1-17/64" x 1/2" (47 x 32 x 12.5 mm) / 0.43 oz (12 g) |
|---|---|---|
| | Speed sensor | 1-41/64" x 1-27/64" x 19/32" (41.5 x 36 x 15 mm) / 0.53 oz (15 g) |

\* The specifications and design are subject to change without notice.

## Limited warranty
### 2-Years Computer/Sensor only
### (Accessories and Battery Consumption excluded)

CatEye cycle computers are warranted to be free of defects from materials and workmanship for a period of two years from original purchase. If the product fails to work due to normal use, CatEye will repair or replace the defect at no charge. Service must be performed by CatEye or an authorized retailer. To return the product, pack it carefully and enclose the warranty certificate (proof of purchase) with instruction for repair. Please write or type your name and address clearly on the warranty certificate. Insurance, handling and transportation charges to CatEye shall be borne by person desiring service. For UK and REPUBLIC OF IRELAND consumers, please return to the place of purchase. This does not affect your statutory rights.

> Please register your CatEye product on the website.
> http://www.cateye.com/en/support/regist/

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