



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.

Frequency Band : 19 kHz Radiated Power : -31.7 dBm

Hereby, CATEYE Co., Ltd. declares that the radio equipment type CC-RD310W is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address : cateye.com/doc

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.

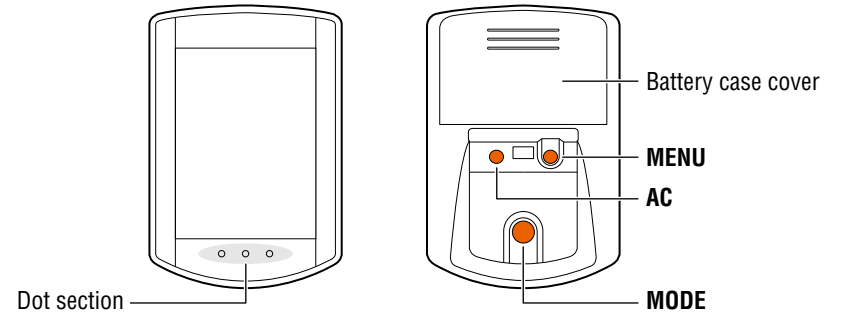
Canada 310

This device complies with Industry Canada's RSS-310. Operation is subject to the condition that this device must not cause harmful interference and must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme au CNR-310 d'Industrie Canada. Son exploitation est autorisée à condition que l'appareil ne produise pas de brouillage préjudiciable et qu'il accepte tout brouillage, même celui susceptible d'en compromettre le fonctionnement.

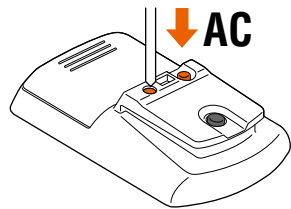
CAN ICES-3 (B) / NMB-3 (B)

 **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.**



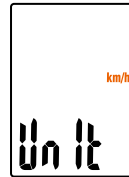
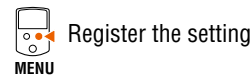
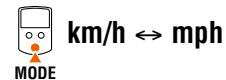
1 Clear all data (initialization)

Press the **AC** button on the back of the computer.



2 Select the speed units

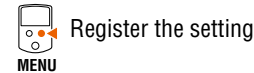
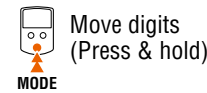
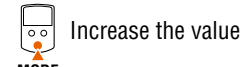
Select “km/h” or “mph”.



3 Enter the tire circumference

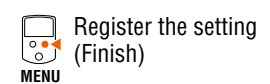
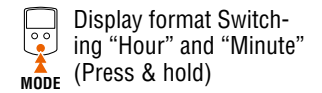
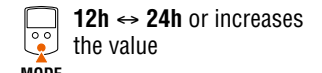
Enter the front wheel tire circumference of your bicycle in mm.

* Refer to the “Tire circumference reference table” as a guide.

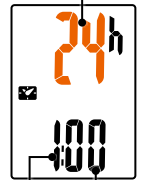


4 Set the clock

Pressing and holding the **MODE** button switches the display to “Displayed time”, “Hour”, and “Minute” in order.



Display format



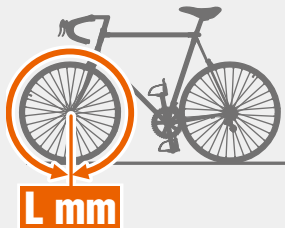
Hour Minute

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.



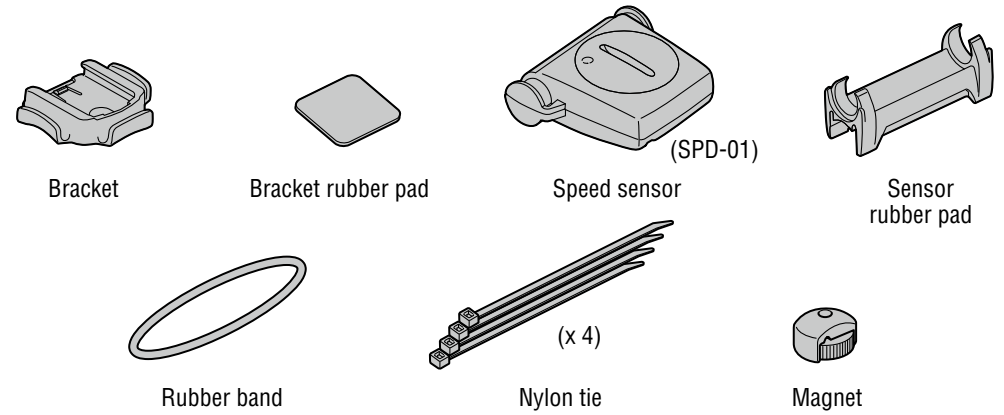
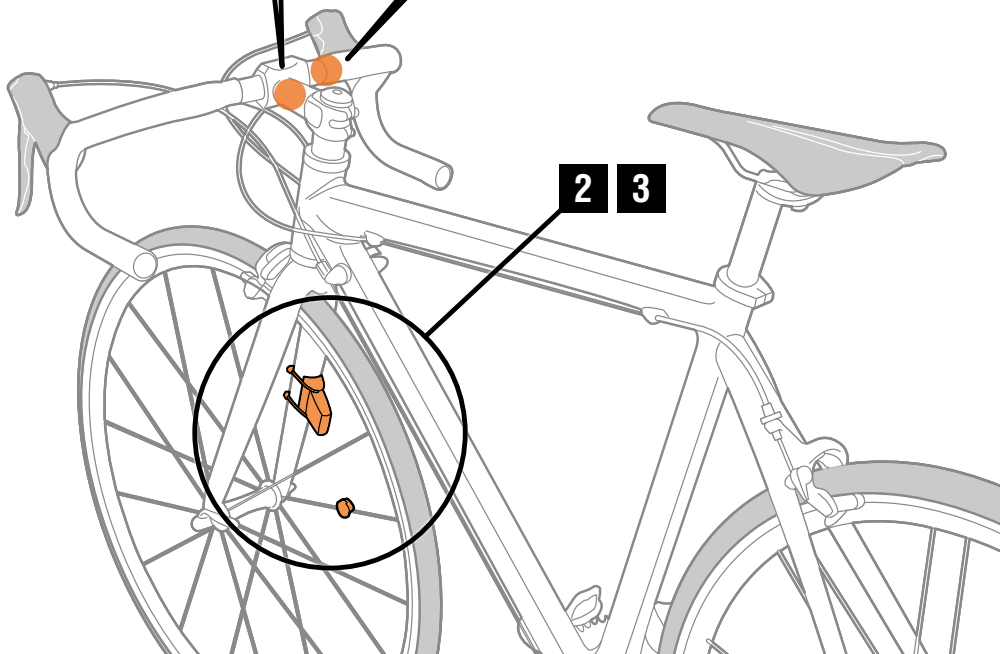
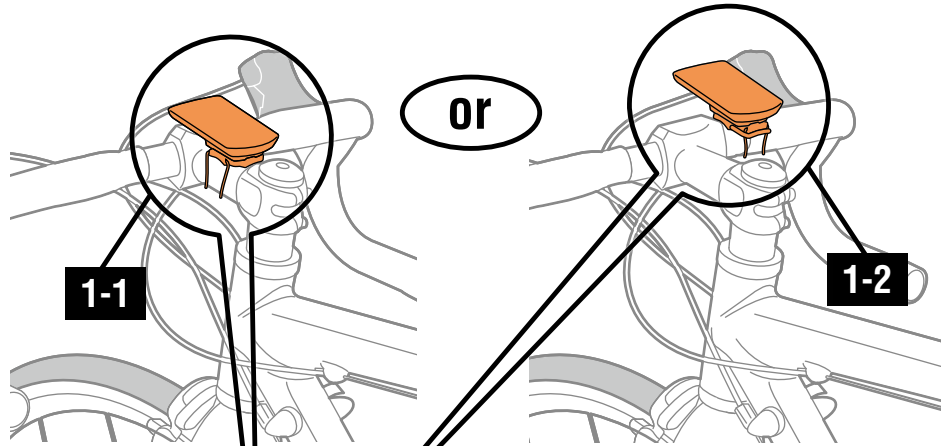
• Refer to the tire circumference reference table

* 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	20-571	650x20C	1938	19-622	700x19C	2080	56-622	29x2.2	2298
47-355	18x1.75	1350	32-540	24x1-1/4	1905	23-571	650x23C	1944	20-622	700x20C	2086	60-622	29x2.3	2326
32-406	20x1.25	1450	25-559	26x1(559)	1913	25-571	650x25C 26x1(571)	1952	23-622	700x23C	2096			
35-406	20x1.35	1460	32-559	26x1.25	1950	40-590	650x38A	2125	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				30-622	700x30C	2146			

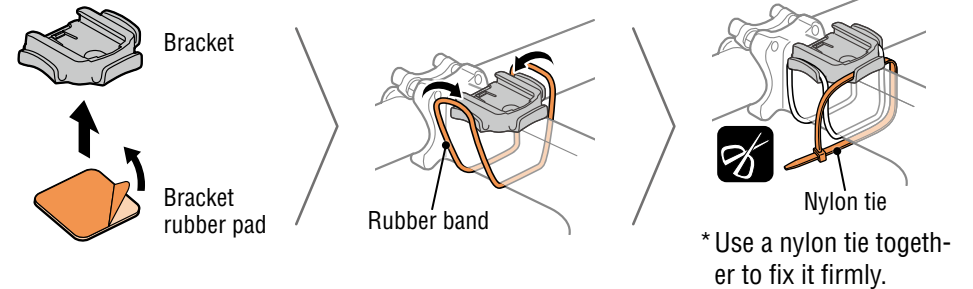
Refer to the Quick Start Manual, where you can learn how to install the unit in detail using a movie.

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

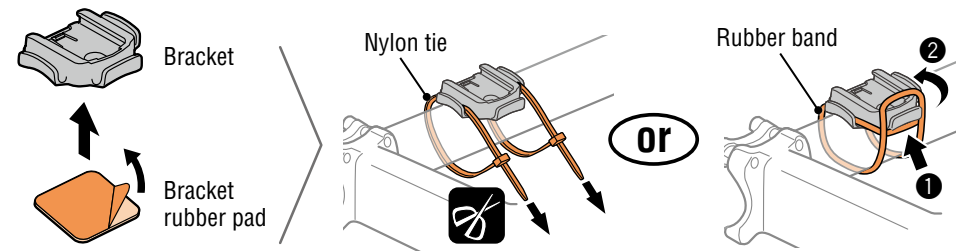


Attach the bracket to the stem or handlebar

1-1 When mounting the bracket to the stem

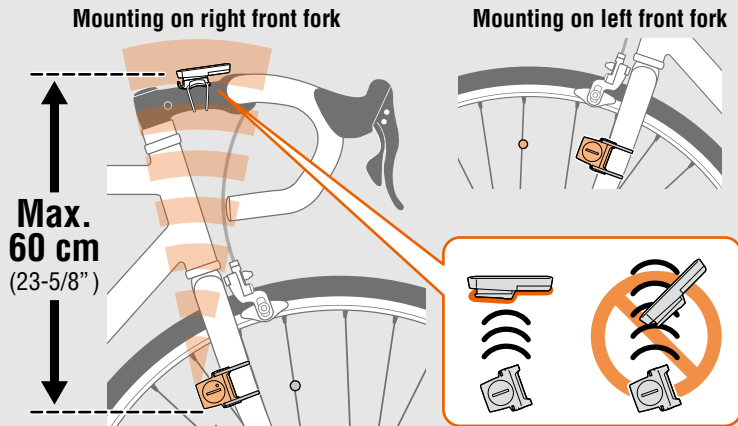


1-2 When mounting the bracket to the handlebar

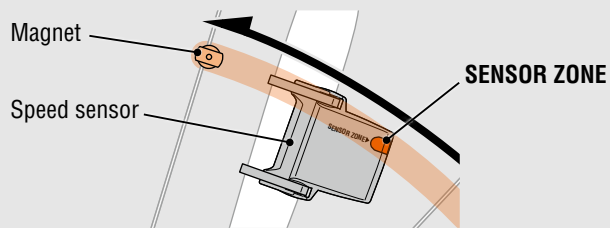


1 Install the sensor and magnet in a position where the following conditions are satisfied.

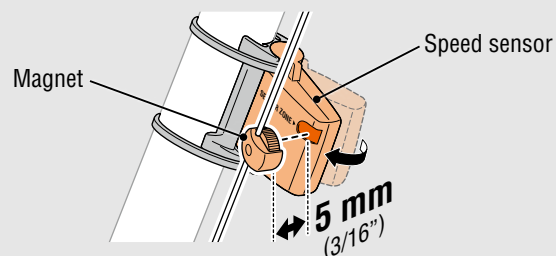
A The distance from the computer to the sensor is within the transmission data length, and the back of the computer faces downward.



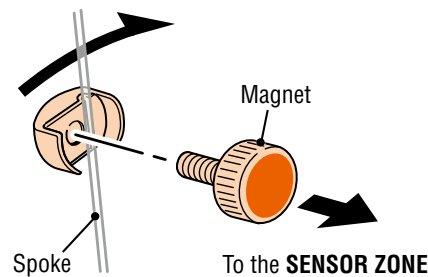
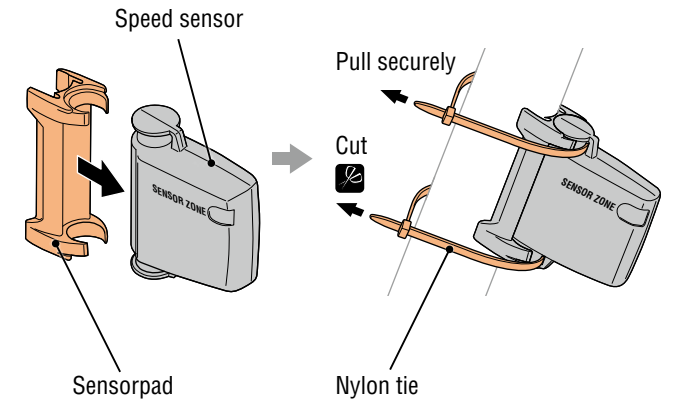
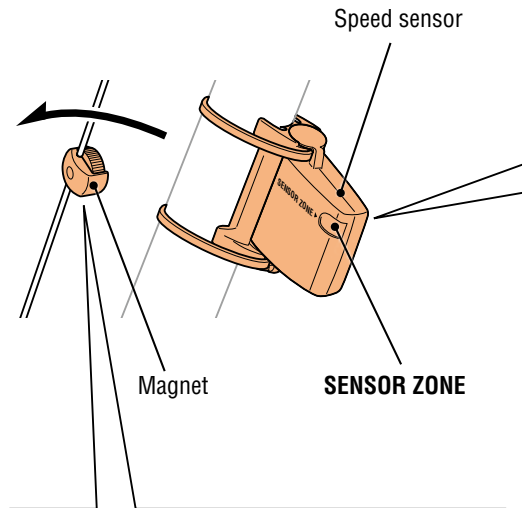
B The magnet passes through the sensor zone of the speed sensor.



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

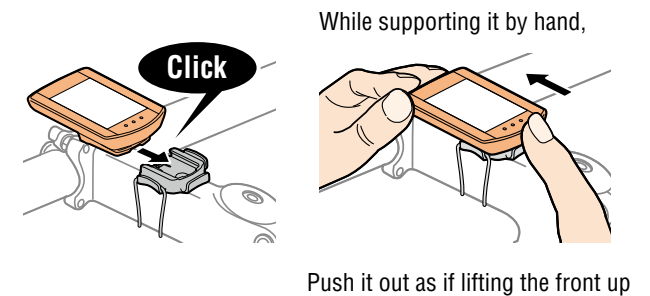


2 Install the sensor and magnet



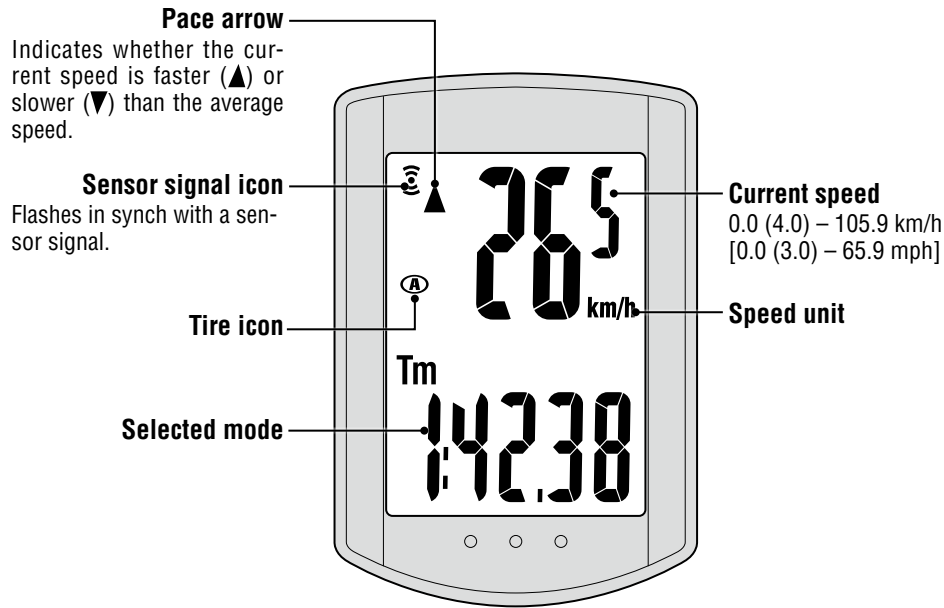
* The wheel magnet may be installed anywhere on the spoke if the installation conditions are satisfied.

3 Remove/Install the computer

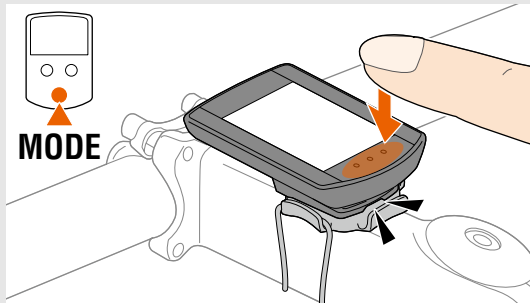


Positioning and testing

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.



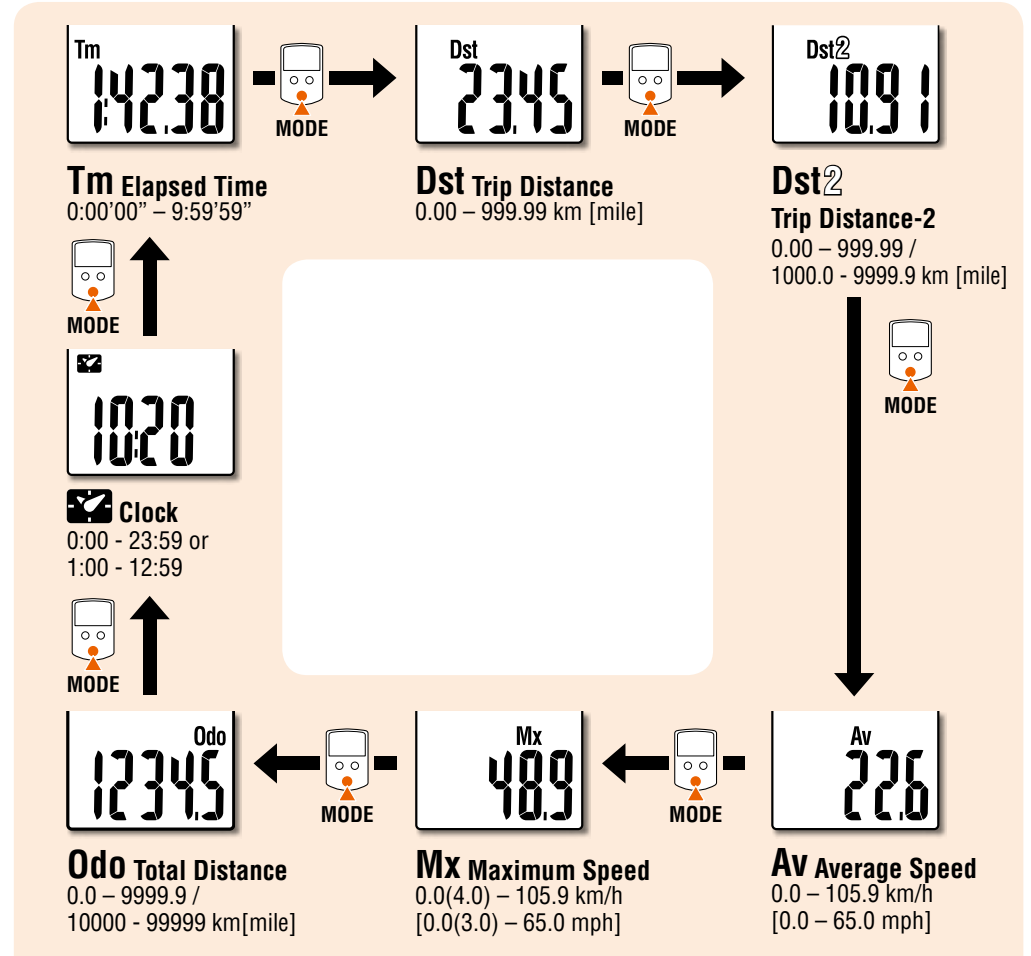
MODE operation when the computer is mounted on the bracket



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.



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

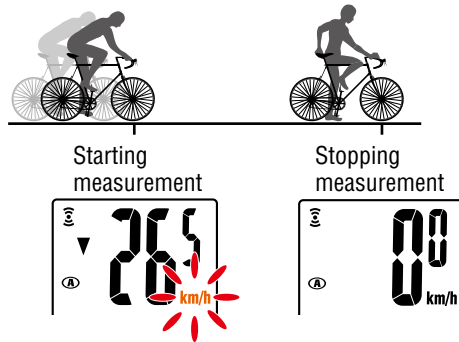
* The average speed displays **.E** instead of the measurement value, when **Tm** exceeds about 27 hours or **Dst** exceeds 999.99 km. Reset the data.

To "Changing the computer settings [Menu screen]" (page 7)

Starting / Stopping measurement

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

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

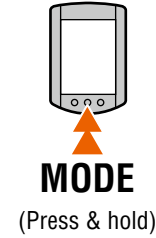


Resetting data

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.

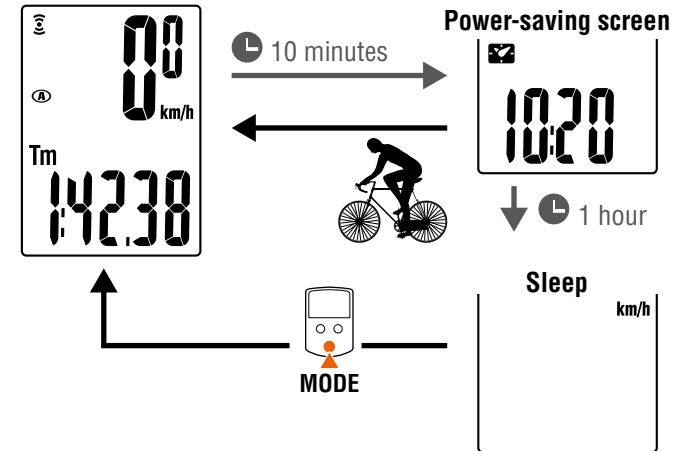
The total distance (**Odo**) cannot be reset.



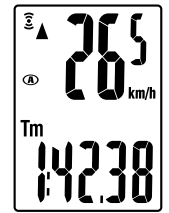
Power-saving function

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.



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.



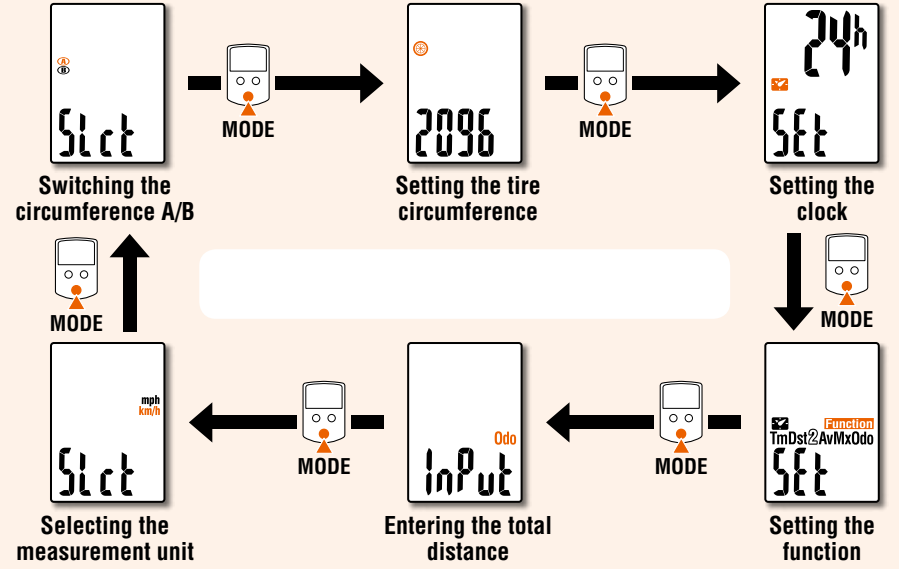
Changing the settings
MODE
 (Press & hold)

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.

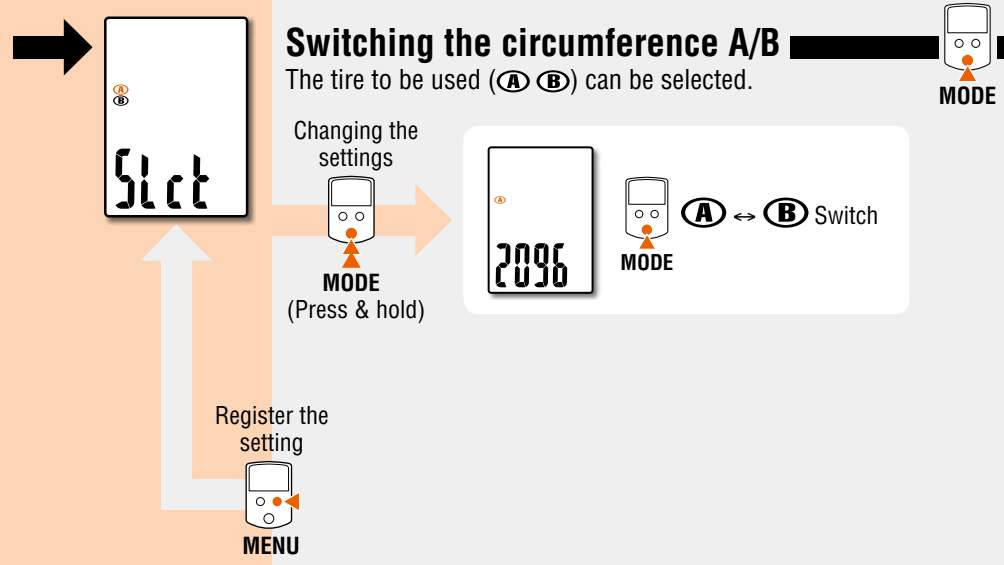
Register the setting
MENU

* 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.

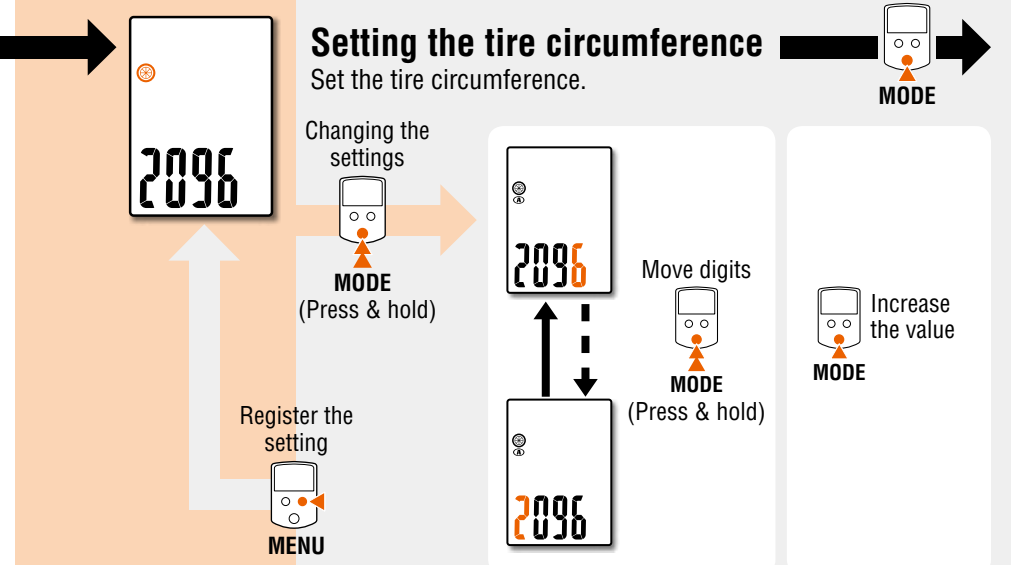
Overview of the menu screen



From "Selecting the measurement unit"

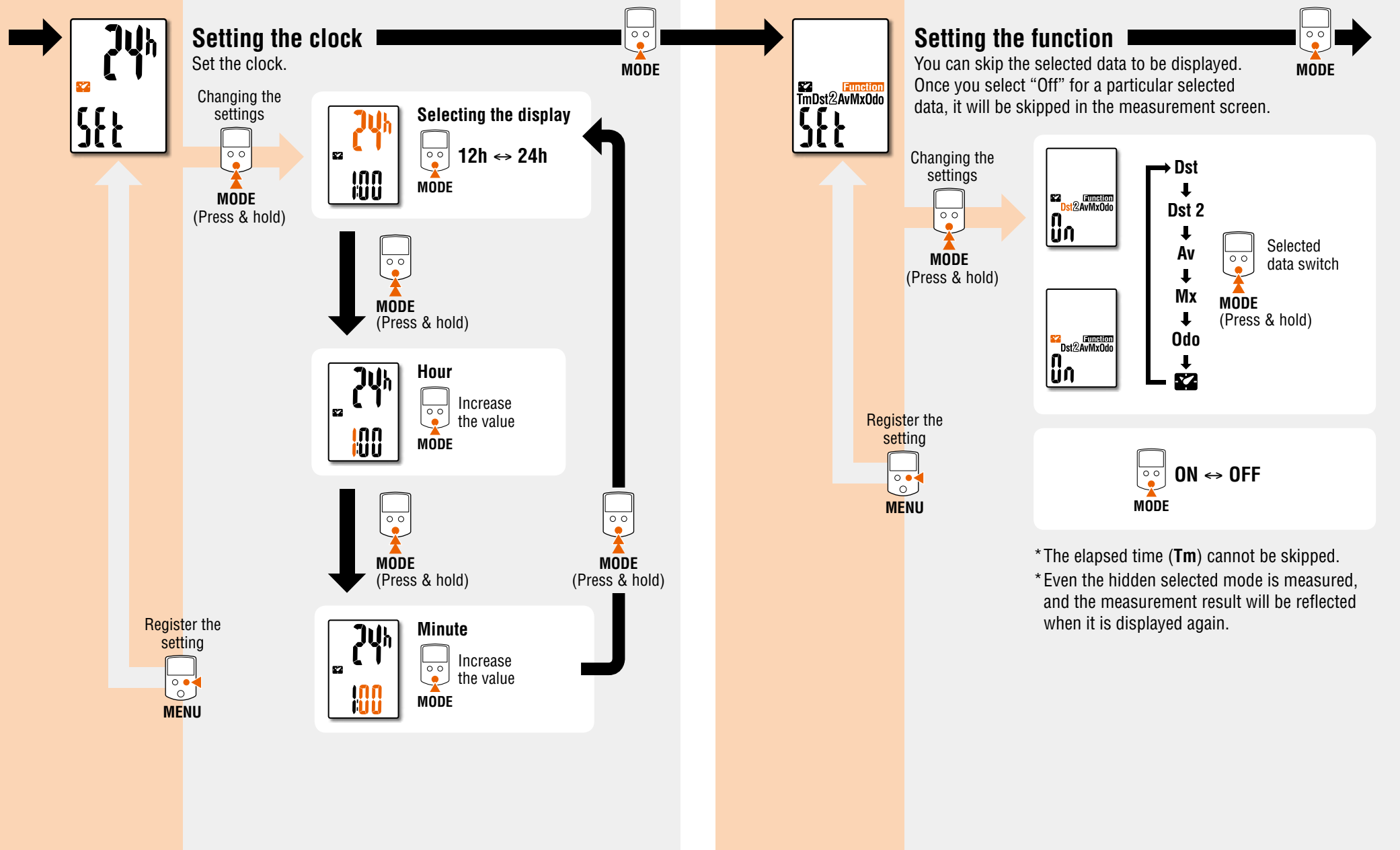


To "Setting the clock"



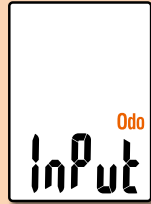
From "Setting the tire circumference"

To "Entering the total distance"



* 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"



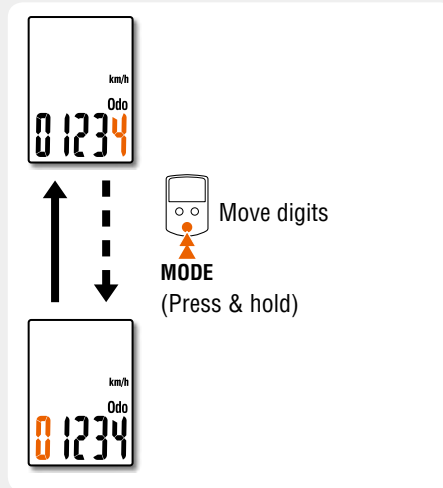
Entering the total distance

Enter the total distance.

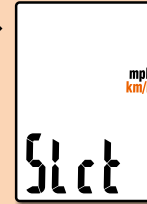
(No decimal number can be entered.)

* 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.

Changing the settings
 MODE
 (Press & hold)



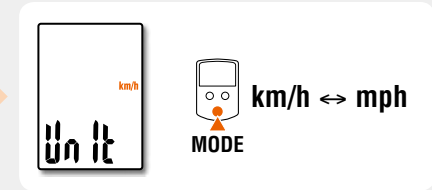
Register the setting
 MENU



Selecting the measurement unit

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

Changing the settings
 MODE
 (Press & hold)



Register the setting
 MENU



To "Switching the circumference A/B"

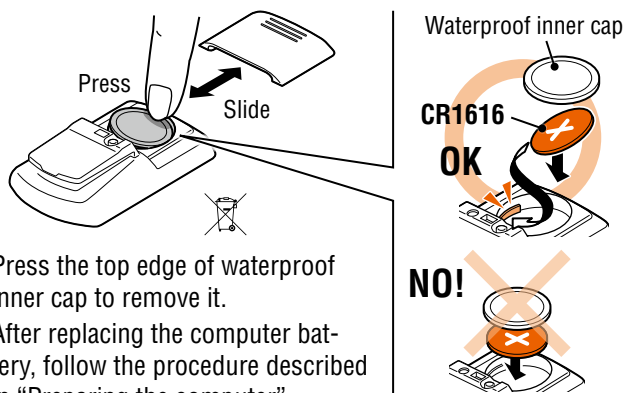
Maintenance

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 the top edge of waterproof inner cap to remove it.

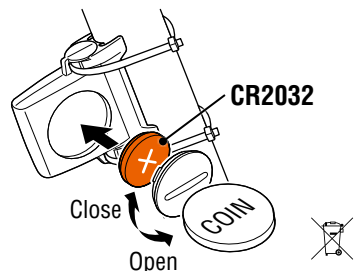
* After replacing the computer battery, follow the procedure described in "Preparing the computer"

* 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.



* 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.

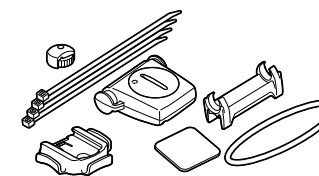
Replace the computer battery according to the procedure specified in the section "Replacing the battery".

Incorrect data appear.

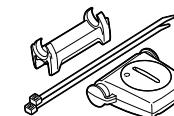
Clear all according to the procedure described in "Preparing the computer".

All measured data are deleted.

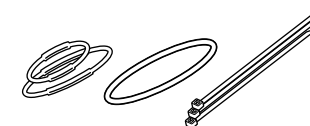
Standard accessories



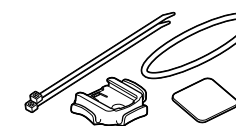
1603894
Parts kit



1602196
Speed sensor (SPD-01)



1603893
Rubber band / nylon tie



1603892
Bracket kit



1699691N
Wheel magnet



1603850
Lithium battery CR1616

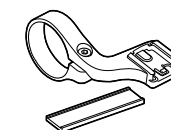


1665150
Lithium battery CR2032

Optional accessories



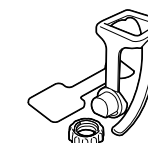
1603891
Speed sensor (SPD-02)



1604100
Out-front bracket



1602194
Bracket kit (FlexTight™)



1600280N
Bracket band (FlexTight™)



1602193
Bracket (for FlexTight™)

Specification

Battery Battery life	Computer	Lithium battery (CR1616) x 1 Ap- prox. 1 year (If the computer is used for 1 hour/ day; the battery life will vary de- pending on the conditions of use.)
	Speed sensor	Lithium battery (CR2032) x 1 Distance reaches about 10000 km (6250 mile)
* This is the average figure of being used under 20 °C tem- perature 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 (Crystal controlled oscillator)	
Display	Liquid crystal display	
Sensor	No contact magnetic sensor	
Transmission distance	Between 20 and 60 cm	
Tire circum- ference range	0100 mm - 3999 mm (Initial value: A = 2096 mm, B = 2096 mm)	
Working tem- perature	0 °F - 104 °F (0 °C - 40 °C) (This product will not display appropriately when exceeding the Working Temperature range. Slow response or black LCD at lower or higher temperature may happen respec- tively.)	
Dimensions/ 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.

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