



CAT EYE VELO 2

CYCLOCOMPUTER CC-VL200





U.S. Pat. Nos. 5236759/5226340/5264791
Pat. and Design Pat. Pending
Copyright© 1997 CAT EYE Co., Ltd.
CCMVL2-980225 Printed in Japan 0687430 2

Setting Values Cross Reference Table (The tire size is marked on both sides of the tire.)

TIRE SIZE	L(cm)	TIRE SIZE	L(cm)	TIRE SIZE	L(cm)	TIRE SIZE	L(cm)
20 x 1.75	150	26 x 1-1/8 Tubular	197	27 x 1	215	700 x 25C	211
24 x 1	175	26 x 1-3/8	207	27 x 1-1/8	216	700 x 28C	214
24 x 3/4 Tubular	178	26 x 1-1/2	210	27 x 1-1/4	216	700 x 30C	217
24 x 1-1/8 Tubular	179	26 x 1.40	200	27 x 1-3/8	217	700 x 32C	216
24 x 1-1/4	191	26 x 1.50	199	650 x 35A	209	700C Tubular	213
24 x 1.75	189	26 x 1.75	202	650 x 38A	212	700 x 35C	217
24 x 2.00	192	26 x 1.95	205	650 x 38B	211	700 x 38C	218
24 x 2.125	196	26 x 2.00	206	700 x 18C	207	700 x 44C	222
26 x 1(559mm)	191	26 x 2.1	207	700 x 19C	209		
26 x 1(650c)	195	26 x 2.125	207	700 x 20C	209		
26 x 1.25	195	26 x 2.35	208	700 x 23C	210		

* The values listed here are not definitive information. Wheel circumference varies with the tire pressure.

Specifications

Controller ----- 4-bit 1-chip Microcomputer (Crystal Controlled Oscillator)
Display ----- Liquid Crystal Display
Sensor ----- No Contact Magnetic Sensor
Operating Temperature Range ----- 0°C - 40°C(32°F - 104°F)

LIMITED WARRANTY

1-Year Warranty for Main Unit Only
(Accessories/Attachments and Battery Consumption excluded)
If trouble occurs during normal use, the part of the Main Unit will be repaired or replaced free of charge. The service must be performed by Cat Eye Co., Ltd. To return the product, pack it carefully and remember to enclose the warranty certificate with instruction for repair. Please write or type your name and address clearly on the warranty certificate. Insurance, handling and transportation charges to our service shall be borne by person desiring service.

(Address for service)

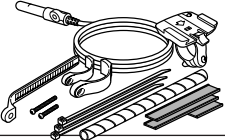
CAT EYE CO.,LTD.
2-8-25, Kuwazu, Higashi Sumiyoshi-ku, Osaka 546-0041 Japan
Attn.: CAT EYE Customer Service Section

Service & Research Address for United States Consumers:
CAT EYE Service & Research Center
1705 14th St. 115 Boulder, CO 80302

Phone : 303-443-4595 Toll Free: 800-5CATEYE
Fax : 303-473-0006 e-mail : CatEyeUSA@aol.com

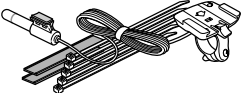
169-9730

Heavy Duty Wire and Bracket Sensor Kit



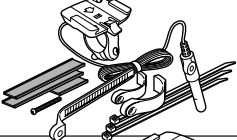
169-9770

Bracket Sensor Kit for Extra Large Fork (for CC-VL200)



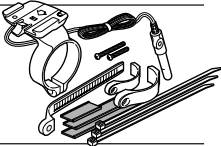
169-6560

Bracket Sensor Kit [Long]



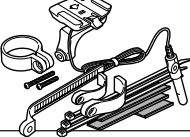
169-6567

Center Mount Bracket Kit [Long]



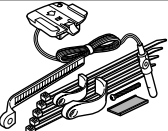
169-6568

Bracket Sensor Kit for Aero Bar



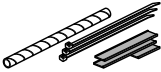
169-6569

Stem Mount Bracket Kit



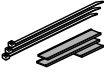
169-9750

Attachment Kit (For Heavy Duty Wire)



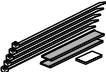
169-6170

Attachment Kit



169-9751

Attachment Kit (For CC-VL200)



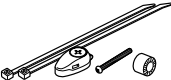
169-6280

Universal Sensor Band



169-9760

Wheel Magnet for Composit Wheel



166-5120

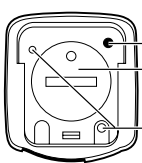
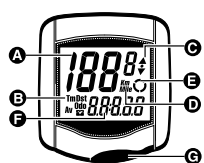
Wheel Magnet



166-5150

Lithium Battery (CR2032)





- A. Speed Display
B. Mode Symbol
C. Average Pace Arrow
D. Speed Scale
E. Velocity Indicator
F. Sub-Display (Selected Function)
G. Main Button
H. SET Button
I. Battery Case Cover
J. Contact



Precautions

- Don't pay too much attention to your computer functions while riding. Keep your eyes on the road and give due consideration to safe riding.
- Securely attach the magnet, sensor and bracket to your bicycle. Periodically check if the screws and secure bands have loosened.
- Safely dispose of the old battery. Do not place it within children's reach. If swallowed by mistake, consult a doctor immediately.
- Do not leave the main unit exposed to direct sunlight. Never disassemble the main unit.
- For cleaning, use neutral detergent on soft cloth, and wipe off with dry cloth. Do not apply paint thinner, benzine or alcohol, to avoid damages on the surface.
- If there is mud, sand or the like clogged between the button and the body, the movement of the button may be deteriorated. Softly wash away such objects with water.

MAIN UNIT PREPARATION

Using the unit for the first time

After replacing battery

All Clear Operation

Press Main button and SET button simultaneously.
→All displays illuminate, and then "Km" symbol flashes.

Speed Scale Selection

Press Main button and select "Km" or "Mile".

Odo Data Input

Hold down Main button to select Odo input display.

Input the figure by Main button
Press SET button to change the flickering digit.

Press SET button to fix it

Wheel Circumference Setting

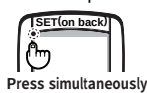
Increase the figure by Main button
(to increase rapidly, hold down the button).

Press SET button to fix it

Preparation Completed

Set the Clock time

All Clear Operation



Press simultaneously

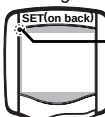


Measure the wheel circumference by traveling your bike on the ground for one full wheel revolution. Or "Selecting Values Cross Reference Table" tells you an approximate circumference according to your tire size.

Button Operation

Just press Hold down

In Wheel Circumference Setting Display:

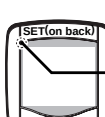


Completes setting
→Return to measuring

Increases the figure

Rapidly increases the figure

In Clock Time Setting Display



When "Mile" was chosen for speed scale, the clock time is in 12-hour. If "Km", the clock time is 24-hour.

Selects the flickering digits
Hour → Minute → Return to Measuring

Increases the figure

Rapidly increases the figure

In Ordinary Display

When you start/stop riding, the unit automatically starts/stops measuring.

While measuring, the Velocity Indicator rotates.



In display: Clock Time Setting
In Odo display: Wheel Circumference Setting

Moves to the next

Resets data

In display: Enters power saving function

In Odo display: No change

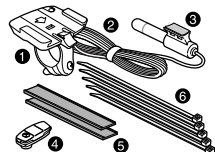
Odo

Av

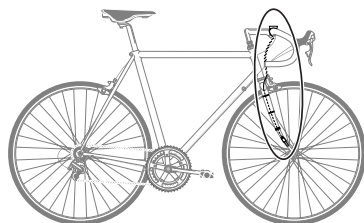
Tm

Dst

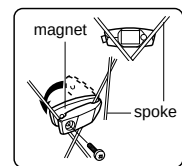
HOW TO INSTALL



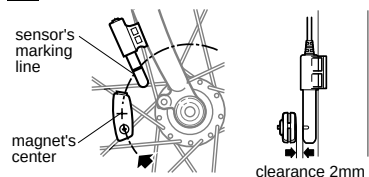
- 1 Bracket
2 Wire
3 Sensor
4 Magnet
5 Rubber Pad
6 Nylon Ties



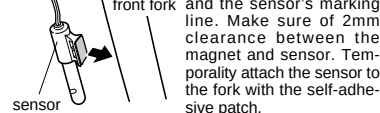
1



2



3

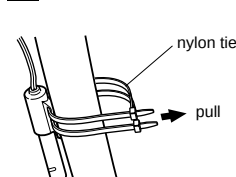


3

Test

Slide the main unit onto the bracket according to "How to Attach Main Unit to Bracket" (below). Spin the front wheel and check if the velocity indicator is spinning. (If not, adjust the relative positions of the magnet and sensor again.) After the test, remove the main unit.

4

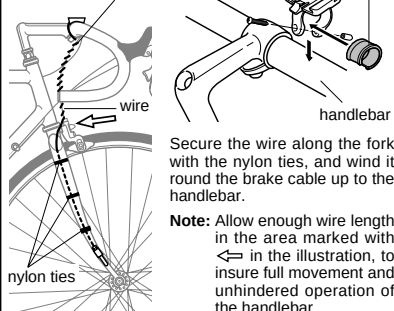


5

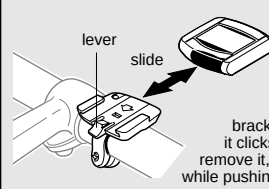
Fix the sensor with the nylon ties.

Note: Fasten the ties securely.

5



How to Attach Main Unit to Bracket



Slide the main unit onto the bracket from front until it clicks into position. To remove it, pull it off forward while pushing down the lever.



Spd Current Speed

0.0(3.0) - 65mph ±1 mph (under 31 mph) [0.0(4.0) - 105 km/h ±1 km/h]

Always displayed on the upper display and updated once a second.



Average Pace Arrow

Shows whether the current speed is faster or slower than the average speed

- ↑ ----- Faster than the average speed
↓ ----- Slower than the average speed



Odo Total Distance (Odometer) 0.0 - 9999.9 mile[km] ±0.1 mile[km]

Continuously measured until battery wears down. At 9999.9 km, it returns to zero and counting begins anew. (With all clear operation, it return to zero; to continue accumulation of data, input the previous Odo data after all clear operation.)



Dst Trip Distance

0.00 - 999.99 mile[km] ±0.01 mile[km]

The trip distance from start to current point is displayed. With reset operation, it returns to zero.



Tm Elapsed Time

0:00'00" - 9:59'59" ±0.003 %

Elapsed time is measured from start to current point, in units of hours, minutes and seconds. At 10 hours, it returns to zero and counting begins anew. With reset operation, it returns to zero.



Av Average Speed

0.0 - 63.0 mph[99.9km/h] ±0.3 mile[km]

The average speed from start to current point is displayed. If the elapsed time exceeds 10 hours, (E) is displayed and calculation ceases.



Clock time

1:00' - 12:59' or 0:00' - 23:59' ±0.003 %

If "Mile" is selected for scale symbol, the clock time is in 12 -hour. If "Km", the clock time is 24-hour.

Power Saving Function

When the main unit does not receive a signal, or a button has not been pressed for 1-2 hours, the power supply is shut down and the main unit will only display the clock. By pressing the Main button, or by receiving signal, this function is released.

Trouble Shooting

No display.

- Has the battery in the main unit worn out?
Replace it with a new one.

Incorrect data appears.

Do "All Clear" operation.(If possible, write down the Odo data before all clear operation, and input it again after the display returns normal.)

Current speed does not appear. (When current speed does not appear, first short-circuit the contact on the back with metal; if the speed display appears, the main unit is normal and the problem must be in the bracket or the sensor.)

- Is there anything on the contact of the main unit or of the bracket?
Wipe the contact clean.

Is the distance between the sensor and the magnet too far?

Are the marking line of the sensor and the center of magnet aligned?

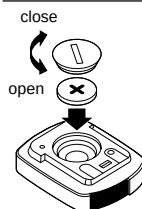
Adjust the position of the sensor and magnet again.

Is the wire broken?

Replace it with a new one.

Current speed does not appear in wet condition.

Wipe the contacts with dry cloth. Contacts can also be treated with a water repellent silicon jelly from an automotive parts store or hardware store. Do not use industrial water repellent; it may damage the bracket.



How to Replace Battery

In order to continue accumulation of Odo data, write down the stored Odo data before replacing the battery. Insert a new lithium battery (CR2032) with the (+) pole upward.

Continuing Accumulation of Odo Data

Although the Odo data returns to zero by all clear operation, you can continue accumulation of data by inputting the previous Odo data. Be sure to write down the data before replacing the battery.

Specifications

- Applicable Wheel Circumference 112cm - 255cm (initial figure: 205 cm)
- The length of the wire 70cm
- Power Supply Lithium Battery (CR2032) x 1
- Battery Life Approx. 3 years(The life of the first factory-loaded battery may be shorter than this period.)

Dimension/Weight

1-25/32" x 1-9/16" x 5/8" [45 x 40 x 15.5 mm] / 0.88oz. [25 g]

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