



CAT EYE VELO 1

CYCLOCOMPUTER CC-VL100





U.S. Pat. Nos. 4642606/5236759/5226340/5264791
Pat. and Design Pat. Pending
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CCMVL1-980430 Printed in Japan 0687421 1

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

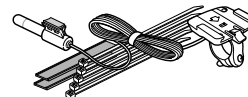
Toll Free : 800-5CATEYE

Fax : 303-473-0006

e-mail : CatEyeUSA@aol.com

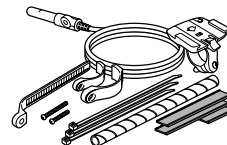
169-9770

Bracket Sensor Kit for Extra Large Fork (for CC-VL100)



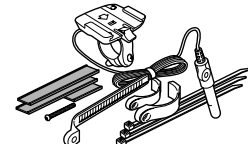
169-9730

Heavy Duty Wire and Bracket Sensor Kit



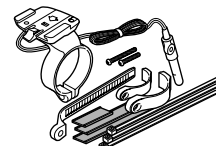
169-6560 [# 169-6565]

Bracket Sensor Kit [Long]



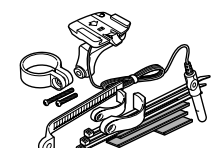
169-6567 [# 169-6562]

Center Mount Bracket Kit [Long]



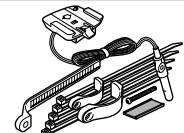
169-6568

Bracket Sensor Kit for Aero Bar



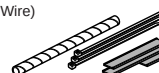
169-6569

Stem Mount Bracket Kit



169-9750

Attachment Kit (For Heavy Duty Wire)



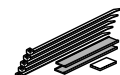
169-6170

Attachment Kit



169-9751

Attachment Kit (For CC-VL100)



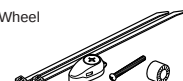
169-6280

Universal Sensor Band



169-9760

Wheel Magnet for Composit Wheel



166-5120

Wheel Magnet



166-5150

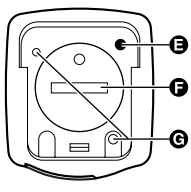
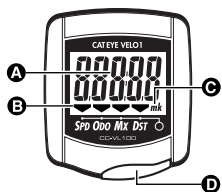
Lithium Battery (CR2032)





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.



- A. Data Display
B. Mode Symbol
C. Scale Symbol
D. Main Button
E. SET Button
F. Battery Case Cover
G. Contact

Main Unit Preparation

When using the unit for the first time or after replacing battery, follow this procedure.

All Clear Operation

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

Scale Selection

- Press Main button and select "k (km)" or "m (mile)".

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

All Clear Operation



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 Ordinary Display

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

While measuring, the scale symbol "k" or "m" flashes.



In ODO display:
Wheel Size Setting

Changes the display as in the right figure

Resets data (In MX or DST display)

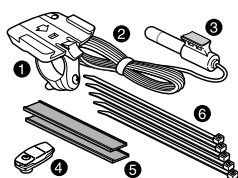
SPD

ODO

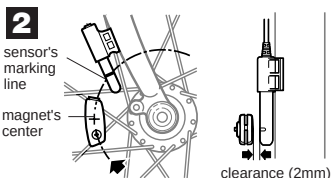
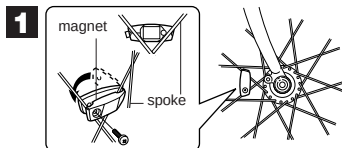
MX

DST

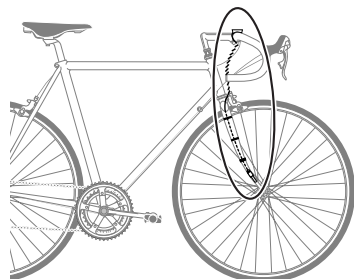
How to Install



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



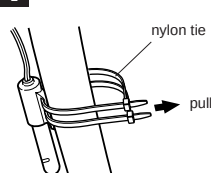
Align the magnet's center and the sensor's marking line. Make sure of 2mm clearance between the magnet and sensor. Temporarily attach the sensor to the fork with the self-adhesive patch.



3 Test

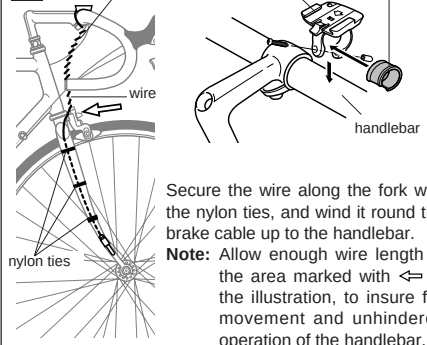
Slide the main unit onto the bracket according to "How to Attach Main Unit to Bracket" (below). Spin the front wheel and check if the scale symbol flashes. (If not, adjust the relative positions of the magnet and sensor again.) After the test, remove the main unit.

4



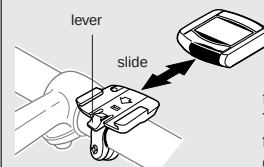
Fix the sensor with the nylon ties.
Note: Fasten the ties securely.

5



Secure the wire along the fork with the nylon ties, and wind it round the brake cable up to the handlebar.
Note: Allow enough wire length in the area marked with ⇄ in the illustration, to insure full movement and unhindered operation of the handlebar.

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(4.0) - 100 km/h ± 1 km/h [0.0(3.0) - 60 mph ± 1] (under 60 km/h)

The data is updated once a second.

When it reaches 60km/h (or 60mph), the decimals are omitted.



ODO Total Distance (Odometer)

0.0 - 9999.9 km [mile] ± 0.1 km [mile]

Continuously measured until battery wears down.

At 9999.9 km, it returns to zero and counting begins anew.



MX Maximum Speed

0.0(4.0) - 100 km/h ± 1 km/h [0.0(3.0) - 60 mph ± 1]

Displays the highest recorded speed. When it reaches 60 km/h (or 60 mph), the decimals are omitted. With reset operation, it returns to zero.



DST Trip Distance

0.00 - 999.99 km[mile] ± 0.01 km[mile]

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



Power Saving Function

When the main unit does not receive a signal, or a button has not been pressed for about 70 minutes, the power supply is shut down and only mode mark flashes. 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.

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?

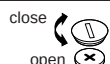
Adjust the position of the sensor and magnet again.

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

When the display becomes dim, the battery is at the end of its useful life. Replace it with a new lithium battery (CR2032) with the (+) pole upward. After replacing battery, be sure to perform "All Clear" operation and set the scale and wheel size again, as in the "Main Unit Preparation".

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] / 0.85 oz. [24 g]

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