



# CAT EYE MITY 3

## CYCLOCOMPUTER CC-MT300N Instruction Manual



# MITY 3

U.S. Pat. Nos. 4633216/4642606/5236759/5226340/5904442 and Pat. Pending Design Patented



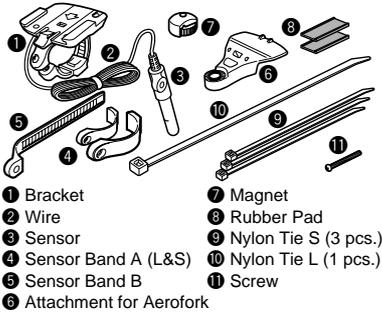
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### Precautions

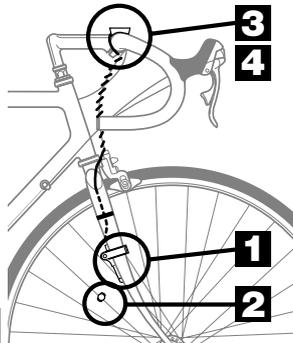
- Do not concentrate too much on the computer operations while riding.
- Be sure to securely mount the magnet, sensor and bracket on your bicycle, and periodically check to insure they are mounted securely.
- Used batteries must be disposed of properly and in accordance with all local regulations.
- Do not leave the main unit exposed to direct sunlight. Never disassemble the computer.
- To clean the computer, use mild soap and a soft cloth. Wipe dry with a soft cloth. Paint thinner, benzene, alcohol or other chemicals may damage the surface.



### SETTING UP



- 1 Bracket
- 2 Wire
- 3 Sensor
- 4 Sensor Band A (L&S)
- 5 Sensor Band B
- 6 Attachment for Aerofork
- 7 Magnet
- 8 Rubber Pad
- 9 Nylon Tie S (3 pcs.)
- 10 Nylon Tie L (1 pcs.)
- 11 Screw

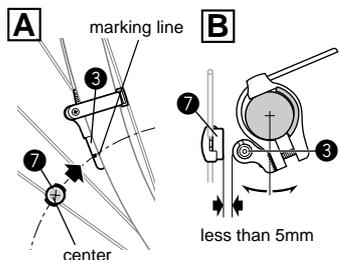


### Installation

#### Important

Attach the sensor and the magnet properly so that their positions meet the following conditions **A** and **B**.

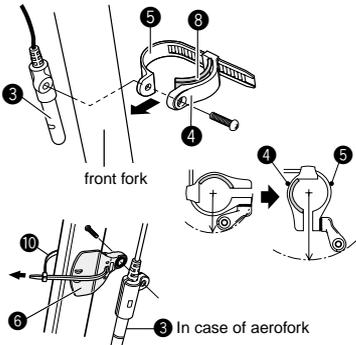
- A** Align the magnet's center and the sensor's marking line while rotating the wheel.
- B** The clearance between the sensor and the magnet should be less than 5mm.



#### 1 Sensor

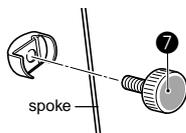
Attach the sensor temporarily to the inside of the right front fork.

- Applicable diameter of the sensor band A:
  - (S) ----- 11-26 front fork
  - (L) ----- 21-36 front fork
- If the clearance between the sensor and magnet is wide, mount the sensor band in the opposite way as shown.
- In case of aerofork, apply the attachment.



#### 2 Magnet

Attach the magnet to the right side spoke of the front wheel. Adjust the position of the sensor and the magnet so that it meets the conditions **A** and **B** in the "Important" column.



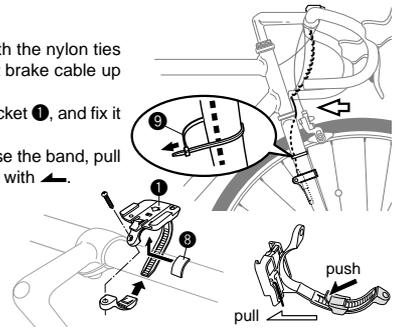
#### 3 Bracket

Secure the wire along the fork with the nylon ties (S), and wind it round the front brake cable up to the handlebar.

Apply the rubber pad to the bracket, and fix it with the screw.

\*The band is adjustable. To release the band, pull it while pushing the area marked with an arrow.

**Note:** Allow enough wire clearance in the area marked with an arrow to insure you can turn the handlebars all the way from side to side without pulling the wire.

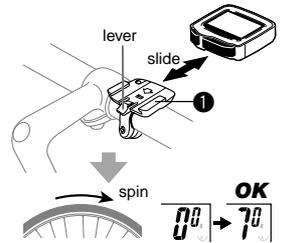


#### 4 Main Unit

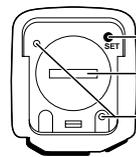
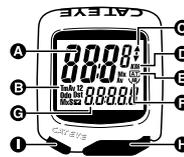
Slide the main unit until it clicks into position. The contact is automatically connected. To remove, slide it forward while pushing the lever.

#### Test

Install the main unit onto the bracket. Spin the front wheel and see if the speed appears in the display. If not, re-adjust the position of the sensor and the magnet so that it meets the conditions **A** and **B** in the "Important" column.



### Setting Up the Computer



- A. Upper Display (Usually Current Speed)
- B. Mode Symbol
- C. Average Pace Arrow
- D. Speed Scale
- E. Auto Mode Symbol
- F. Wheel Selection Symbol
- G. Lower Display (Selected Function)
- H. Mode Button
- I. S Button
- J. SET Button
- K. Battery Cover
- L. Contact

The speed sensor, handlebar bracket and wheel magnet should be installed first.

**NOTE:** To utilize previously accumulated Odometer data, refer to the section "Manually Replacing Mileage into Odometer" described in the last section of this manual.

The following set up is required before use:



Fig. 1

Press SET Button



Fig. 2

ALL CLEAR OPERATION

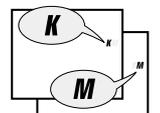


Fig. 3

K (km) = kilometer  
M (mile) = mile

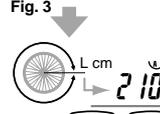


Fig. 4

Setting Range: 100 - 300 cm



Set Up Completed



Fig. 5

Increases the number

Switching of "Hours" and "Minutes"

#### 1. Find the Wheel Calibration Number (Length of Tire Roll-Out)

Determine the length of the tire (Length in centimeters) from the Cross Reference Table. Alternatively, you can find the most accurate wheel calibration number by rolling the tire on the ground. In this method, properly inflate the tires, sit on the bike and measure the distance of one wheel length. This distance in centimeters is the most accurate number. (Inches X 2.54 = Centimeters)

#### 2. Perform the ALL CLEAR OPERATION to clear the computer and set the speed scale:

Press the SET Button while pressing the MODE and START/STOP(S) Buttons (ALL CLEAR OPERATION: Fig. 2). The entire memory of the computer will be erased, and the complete screen will light up and then all fade away, leaving a flashing "K" on the screen. A press on the MODE Button will display "K" and "M" alternately (Fig. 3). Select your desired speed scale. Then press the START/STOP(S) Button to set the scale. The display moves to the next screen.

#### 3. Set the Wheel Circumference.

The number "210" (typical wheel circumference for 700x23C tires) will be displayed (Fig. 4).

Input the number from step 1 above. Press the MODE Button to increase the number. Press the START/STOP(S) Button to decrease it. You can fast forward the numbers by holding either buttons down. Set the number by pressing the SET Button. Your computer is now set up for riding.

#### Setting the CLOCK

For setting the CLOCK, the TIME function must be turned off and the speed scale symbol (either M for Miles or K for Kilometers) must not be flashing (Fig. 5). The CLOCK is set to either 24-HOUR or 12-HOUR depending on the SPEED SCALE selected. In K (kilometers), a 24-HOUR CLOCK is selected, while in M (miles), a 12-HOUR CLOCK is selected.

- In the TIME Function (Tm), hold down the MODE Button, the  mark will appear. This is an indication that you are in the CLOCK function.
- Press the SET Button. The "HOURS" will flash. Use the MODE Button to change/advance the number, and the ST./STOP(S) Button to switch between "HOURS" and "MINUTES".
- Press the SET Button to set the CLOCK.

#### Cross Reference Table

Tire size	L(cm)
12 x 1.75	94
14 x 1.50	102
14 x 1.75	106
16 x 1.50	119
16 x 1.75	120
18 x 1.50	134
18 x 1.75	135
20 x 1.75	152
20 x 1-3/8	162
22 x 1-3/8	177
22 x 1-1/2	179
24 x 1	175
24 x 3/4 Tubular	178
24 x 1-1/8	179
24 x 1-1/4	191
24 x 1.75	189
24 x 2.00	192
24 x 2.125	196
26 x 7/8	192
26 x 1(59)	191
26 x 1(65)	195
26 x 1.25	195
26 x 1-1/8	190
26 x 1-3/8	207
26 x 1-1/2	210
26 x 1.40	200
26 x 1.50	201
26 x 1.75	202
26 x 1.95	205
26 x 2.00	206
26 x 2.10	207
26 x 2.125	207
26 x 2.35	208
26 x 3.00	217
27 x 1	215
27 x 1-1/8	216
27 x 1-1/4	216
27 x 1-3/8	217
650 x 35A	209
650 x 38A	212
650 x 38B	211
700 x 18C	207
700 x 19C	208
700 x 20C	209
700 x 23C	210
700 x 25C	211
700 x 28C	214
700 x 30C	217
700 x 32C	216
700C Tubular	213
700 x 35C	217
700 x 38C	218
700 x 40C	220

# OPERATING THE COMPUTER

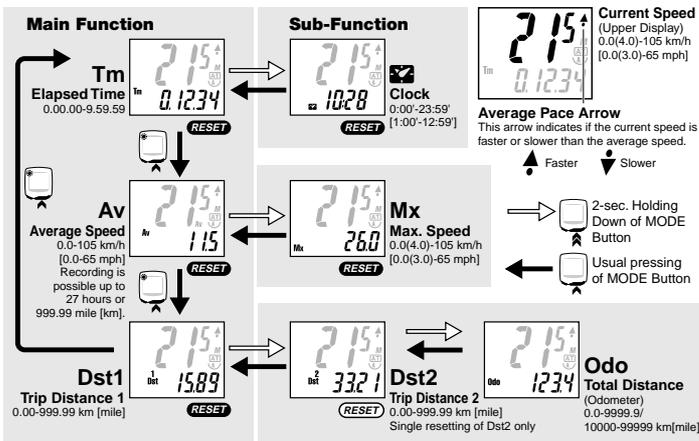
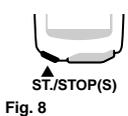


Fig. 6

## Changing the Data Displayed

Pressing the MODE Button changes the data displayed on the screen as shown in Fig. 6. A single press of the button will switch to the next main mode, and a holding down of the button for 2 seconds or longer will switch to the sub-mode. To get back to the main mode from the sub-mode, just press the MODE button.



## Starting/Stopping the Recording

Pressing the ST./STOP(S) Button (Fig. 8) will start the recording of TIME, AVERAGE SPEED and DISTANCE 1 or 2, and a subsequent press will stop the recording. During the recording, the speed scale (K or M) will flicker.

## Auto Mode (Automatic Recording) - [AT]

You can set the computer to record TIME, AVERAGE SPEED and DISTANCE 1 or 2 automatically. This is called the AUTO MODE. The computer's sensor detects the motion of your wheel to start and stop recording automatically. (Once the AUTO MODE is set, you cannot start or stop the recording with the ST./STOP(S) Button.)

### Activating AUTO MODE: (Fig. 9)

In the DISTANCE, TIME or AVERAGE SPEED function, press the SET button. The [AT] symbol will appear on the screen to identify the AUTO MODE. You can take the computer out of the AUTO MODE in the same way.



## Moving TIME, AVERAGE SPEED and MAX SPEED to Upper Display

You can move TIME, AVERAGE SPEED or MAX SPEED to the upper display, giving you larger font and an easy-to-see screen (Fig. 10). When the computer is set in the AUTO MODE ([AT]), the switching is possible by displaying the mode you would like and pressing the ST./STOP(S) Button. You can go back to the original display in the same way.



When the computer is not set in the AUTO MODE ([AT]), you can switch the display by holding down the ST./STOP(S) Button for 2 seconds.

## Resetting the DISTANCE 1, TIME, MAX SPEED and AVERAGE SPEED Functions [RESET]

In any function other than Odo or Dst2, simultaneously press the MODE Button and the ST./STOP(s) Button for one (1) second. DISTANCE 1, TIME, MAX SPEED and AVERAGE SPEED functions will reset to zero (Fig. 11). DISTANCE 2 will not reset.

### Resetting the DISTANCE 2 [RESET]

In Dst2 function, a simultaneous hold down of the MODE and ST./STOP(S) Buttons for 1 second will reset the data of DISTANCE 2 only.



## Wheel Setting A and B, and Changing the Wheel Setting

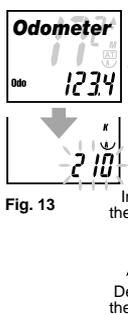
The computer has two wheel settings, allowing you to use the unit between two bikes with different size tires. You can tell which WHEEL SETTING you are in by the Wheel Selection Symbol on the screen (Fig. 12).

- Wheel Setting "B" has been specifically programmed for low-speed sensitivity, and we recommend the use of this setting with your mountain bike.
- To select between Wheel Setting "A" or "B", hold down the SET Button when you are in any function other than the ODOMETER (Odo) function (Fig. 12)

To check the number for the current wheel setting, simultaneously press the ST./STOP(S) Button and the MODE Button when you are in the ODOMETER (Odo) function. While in this status, if you hold down the button for 3 seconds or longer, you can switch between the Wheel Setting "A" and "B" without using the SET Button.

### Changing the Wheel Setting Number (Fig. 13)

1. In the ODOMETER function, press the SET Button on the back of the computer. The number for the Wheel Setting will flash on the screen.
2. Pressing the MODE Button will increase the number, while pressing the ST./STOP(S) Button will decrease it.
3. When the Wheel Setting you would like is displayed, press the SET Button on the back of the computer.



## Power Saving Function

When the computer does not receive a signal for approximately 60 to 70 minutes, the computer goes into the power saving mode, and only the CLOCK is displayed. Press either the MODE Button or ST./STOP(S) Button to wake-up the computer.

## Maintenance

- When the computer or the contact of bracket gets wet, dry it off with a cloth. Rusting will cause the speed detection error.
- When dirt or small grains of sand get jammed between push buttons and the main unit, push buttons may not be smoothly operated. When this has occurred, just wash them away with water.

## Trouble-Shooting

No display

Has the battery in the main unit run out?

Replace it with a new one, and do all clear operation.

Incorrect data appears on the screen.

Perform the "ALL CLEAR OPERATION". (If possible, take note of the Odo data before performing the "ALL CLEAR OPERATION", and enter it again later.

Current speed does not appear. (When this has occurred, short-circuit the contact of the main unit several times by using a small metal piece. If the speed display appears, the computer is working fine. The problem may be attributed to the bracket or the sensor.)

Is the wire damaged? A damaged wire might not be visible.

Replace the bracket sensor with a new one.

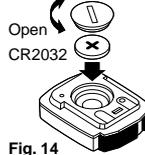
Is the distance between the sensor and the magnet too great?

Re-adjust the position of the sensor and the magnet. (Clearance: approx. 5 mm)

Is there anything sticking on the contact of the main unit or of the bracket?

Clean the contact with a soft cloth.

Close



Open



## Replacing the Battery

When the display gets lighter, it is the sign of battery replacement. In order to continue the accumulation of Odo data, take note of the data before replacing the battery.

- Insert a new lithium battery (CR2032) with the (+) pole facing up (Fig. 14).
- Perform the ALL CLEAR OPERATION after replacing the battery, and perform necessary setting.

## ALL CLEAR OPERATION

Press the SET Button with something like a pen while pressing the MODE and ST./STOP(S) Buttons (fig.15). The entire memory (Odo data, speed scale, wheel setting, and clock time) of the computer will be erased, and the computer is in the distance scale selection mode. Perform this operation when the battery is replaced or in the case of unusual display caused by electrostatics, etc.

## Manually Replacing Mileage (Odo) into Odometer

Although the Odo data returns to zero when the ALL CLEAR OPERATION is performed to replace the battery, you can continue to retain the Odo data you have recorded so far, by manually entering the previous Odo data. (Be sure to take note of the data before replacing the battery.)

1. After performing the ALL CLEAR OPERATION, select the speed scale by pressing the MODE Button. Then, hold down the MODE Button without pressing the SET Button (Fig. 16).
2. The Odo and 0000.0 will be displayed, with the flashing digit of 0.1. Enter numbers by pressing the MODE Button, and move digits by pressing the ST./STOP(S) Button. For the Odo data, you can enter up to the 10,000th digit. Display the numbers you noted on the screen, and press the SET Button on the back of the computer. Then, you will be in the Wheel Setting function.
3. Set the Wheel Setting in accordance with the description in the section "Setting Up the Computer 3".

## Specifications

Power Supply	Lithium Battery (CR2032) x 1	Battery Life: Approx. 3 years
Controller	4-bit 1-chip Microcomputer (Crystal Controlled Oscillator)	
Display	Liquid Crystal Display	
Sensor	No Contact Magnetic Sensor	
Applicable Wheel Circumference	100cm - 300cm	
Applicable Fork Diameter	11 to 36a (Sensor band S: 11-26a, L: 21-36a)	
Length of Wire	70cm	
Operating temperature	32°F - 104°F [0°C - 40°C]	
Dimension/Weight	1-13/16" x 1-17/32" x 9/32" [46 x 39 x 17mm] / 0.92 oz. [26 g]	

\* The life of the factory-loaded battery which comes with the unit may be shorter than this period.  
 \* The specifications and design are subject to change without notice.

## LIMITED WARRANTY

### 2-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: service@cateye.com  
 URL: http://www.cateye.com

#169-6560N [#169-6565N]

Bracket Sensor Kit [Long]

#169-6560N [#169-6565N]

Bracket Sensor Kit [Long]

#169-9730N

Heavy Duty Wire and Bracket Sensor Kit

#169-9730N

Center Mount Bracket Kit [Long]

#169-6567 [#169-6562]

Bracket Sensor Kit for Aero Bar

#169-6568

Stem Mount Bracket Kit

#169-6569

Attachment Kit

#169-9752

Universal Sensor Band

#169-9780

Attachment for Aerofork

#169-9691

Wheel Magnet

#169-9760

Magnet for Composit Wheel

#169-6280

Lithium Battery (CR2032)

#169-9691

Wheel Magnet

#166-5150

Lithium Battery (CR2032)

