CAT EYE ENDURO 8
CYCLOCOMPUTER CC-ED300
E: Owner's Manual

ENDURO8

U.S. Pat. Nos.4633216/4642606/5226340/5236759 Pat. and Design Pat. Pending
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CCMED3-021210 066600240 1

Please read these instructions carefully before attempting to install and use your CAT EYE ENDURO 8 computer so that you understand the functions of this product.
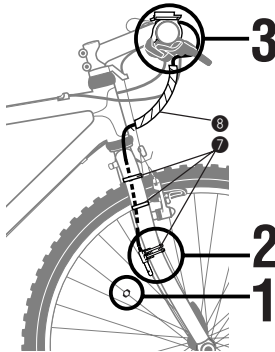Please don't throw away this manual, Keep the manual at a place easily accessible.

Installation of the Computer on Your Bike
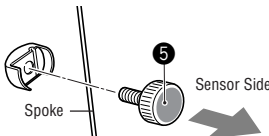The computer is combined with the following parts.
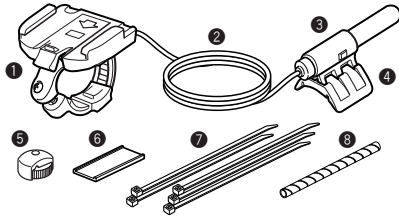
❶ Bracket
❷ Cord
❸ Sensor
❹ Sensor Rubber Pad
❺ Magnet
❻ Bracket Rubber Pad
❼ Five Nylon Ties
❽ Spiral Tube

1 Mount the magnet
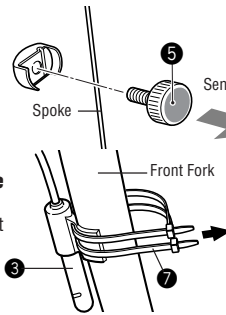❺ on a spoke of the front wheel so that the surface of the magnet will face the sensor.

Sensor Side
Spoke
Front Fork

2 Mount sensor and adjust the gap between the magnet and the sensor.
Secure the sensor ❸ with the larger nylon ties ❼ at the appropriate place and in the right direction.
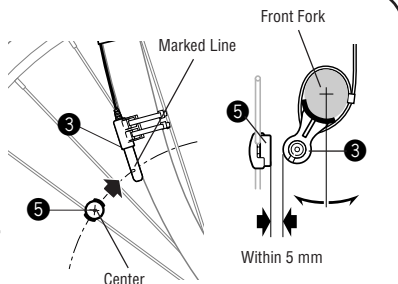
Front Fork
Marked Line

❗ Important Note
Mount the sensor ❸ at the appropriate position so that the center of the magnet ❺ will align with the marked line on the sensor when the wheel is rotated.

❗ Important Note
Rotate the sensor on the front fork to adjust the gap between the sensor and the magnet ❺ within 5 mm, and secure it with the nylon ties.

Center
Within 5 mm

3 Mount The Bracket
Secure the cord on the fork with the nylon ties ❼ and lead to the handle bar along the outer cable of the bicycle by means of the spiral tube ❽.
Put the rubber pad ❻ on the bracket ❶ and secure the bracket on the handle bar with the screw. Slide the computer into the bracket 1 until you hear the click sound.
The contact points are automatically closed. When you need to detach the computer, slide forward the computer with the lever pushed simultaneously.

Note Allow enough wire clearance in the area marked with an ⟵ to insure that you can turn the handlebar from left to right without pulling the wire.

Lever
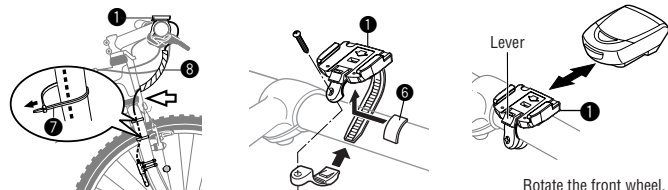
4 Test The Basic Functions
Rotate the front wheel gently and see if the computer indicates the running speed.

Rotate the front wheel.

Note When the computer does not indicate the speed, check the position of the magnet and the sensor.

OK
0.0 → 7.0

Computer Set-up (For 1st use or after replacing the battery)

1 All Clear
Push three buttons (MODE, START/STOP and SET) at the same time.
* Do this procedure without fail for stable measurement when you use this system for the first time and every time the battery is replaced.

SET Button
START/STOP Button
MODE Button

SET Button   Contact Point
START/STOP Button
MODE Button
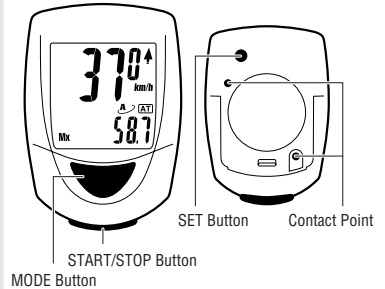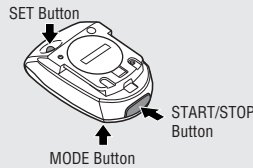
2 Select The Measurement Unit
Select the measurement unit, kilometer or mile, by pushing the MODE button.

Kilometer   MODE   Mile

Choose Either of The Followings.
• When you want to input the reading of the currently used odometer, keep pressing the MODE button for two seconds and input the reading.
• When you want to start the odometer from zero, push the START/STOP button.

❗ You need to know the tire circumference (L cm) beforehand.

L cm

You can refer to the guide chart to roughly know the tire circumference. ⬇

Starting the odometer from zero.

ST/STOP

Retaining the current odometer reading (the odometer starts from the reading you inputted)

MODE — For two seconds.

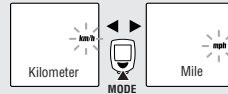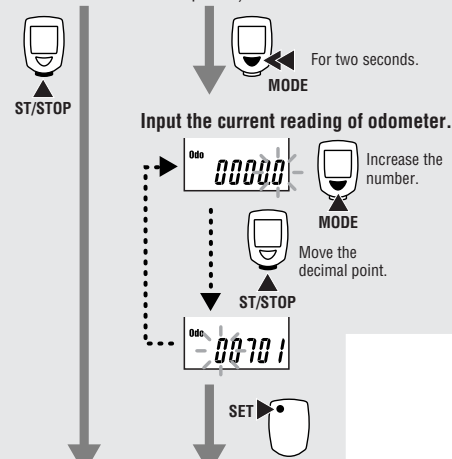**Input the current reading of odometer.**

Odo 00000   MODE Increase the number.

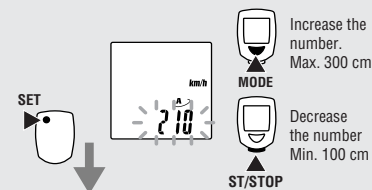ST/STOP Move the decimal point.

Odo 0070.1

SET

3 Set The Tire Circumference
Set the tire circumference in cm.
Note You can easily set it by referring to the chart shown right.
Setting is completed by pushing the SET button.

SET

2.10

MODE Increase the number. Max. 300 cm
ST/STOP Decrease the number Min. 100 cm

Tire size	L(cm)
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 3/4Tubular	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

Tire size is usually shown on the sidewall of tires.

Preparation Complete.
(the screen will show the time measurement in this state)

* The auto mode is ON in this state.

Computer Operations

Selection of the data-display mode (bottom of the screen).
Pressing the MODE button changes the functions in the sub-display.

Clock Time - In Elapsed Time, press and hold the Mode button for two seconds to display Clock Time. Pressing the Mode button again will return the sub-display to Elapsed Time.

Trip Distance 1 and 2 – The computer has two separate trip distances. Trip Distance 2 is reset independently. It can be used to record distance within a ride or multiple days distances. In Trip Distance 1, press and hold the Mode button to select Distance 2. You will continue to view this distance until you select Distance 1 with the same procedure.

Start or Stop of Measurements.
The computer can be programmed to run in either MANUAL MODE or AUTO TIME MODE. In Manual Mode you must press the START / STOP button to turn on and off the Timer, which records Distance and Average Speeds. In Auto Time **AT** the computer turns the Timer on and off depending on a signal from the sensor.

When speed is detected by the computer and the Timer is running, the km/h or mph will flash. Speed will appear on the computer screen and the Odometer will record, regardless if the Timer is running or not.

• Auto Time Mode (Automatic Measurement)
In AUTO TIME mode, the letters **AT** will appear on the computer screen. Elapsed time, Average and Distance are recorded automatically and the Timer, stops when the speed stops. In this mode the START/STOP button is not operable.

• Manual Measurements
When you don't see the icon **AT** on the screen, you can start or stop the measurements by pushing the START/STOP button.

When you push the button, measurements of Elapsed Time, Average Speed, Trip Distance 1 and 2 are started and they are stopped with the second push of the button.

• How to set ON or OFF the auto-mode
Push the SET button on the back side of the computer while Elapsed Time, Average Speed, Trip Distance 1 or 2 is displayed, then the icon **AT** is lit" (ON) or turned OFF.

Resetting Elapsed Time, Trip Distance, Average Speed and Max Speed.
Press and hold the MODE and START/STOP buttons for 2 sec. in either the Elapsed Time, Trip Distance 1, Average Speed or Maximum Speed functions to reset these functions. The Odometer and Trip Distance 2 are not reset. See below for details.

• Resetting Trip Distance 2
Trip Distance 2 is reset independently. When Trip Distance 2 is on the screen, press and hold both the MODE and START/STOP buttons to reset.

Computer Functions
• Power-saving Function

When no signal has been received for about one hour, the computer goes into the power savings mode to only display the Clock. When any button is pushed or the wheel is rotated, the computer screen reappears.

• Dual Tire Size

You can program two, Ⓐ and Ⓑ, tire circumferences and can easily switch Ⓐ to Ⓑ or vise versa to enable the system to be used by two bicycles which have different tire sizes. The computer program for circumference Ⓑ is programmed for low speed use. We recommend to use this for MTB's.

• Moving Elapsed Time, Average Speed and Maximum Speed to the upper display.
You can move the Elapsed Time, Average and Max Speed displays to the upper display for easier viewing. Hold the START/STOP button for 2 sec. and the sub-display will appear in the upper display. Hold the START/STOP button again for 2 sec. and the display returns to the normal set up.

Elapsed Time	Average Speed	Maximum Speed	
Minute Second	**Av**	**Mx**	Upper Part
Hour	**SPD**	**SPD**	Lower Part

Troubleshooting

No display appears.
Is the battery dead?
Replace it by the new one and do all clear procedure.

Strange data appears
Do all clear procedure (write down the number of Odometer if possible before doing the all clear procedure and input it manually after choosing the measurement unit).

Measurements do not start when the START/STOP button is pushed.
Is the icon **AT** ON?
Turn the Auto-Mode off to enable the start or stop of the measurements by manual operation of the button.

No speed data is displayed.
(If the speed data is not displayed, have the contact points short-circuited by a metal plate. In the case that this short-circuiting is detected by the computer, the computer is considered normal and the bracket and sensor may possibly have the cause of trouble.)
Is the gap between the sensor and the magnet too big? (should be within 5 mm)
Does the marked line of the sensor align with the center of the magnet?
Adjust the position of the magnet and the sensor.
Make sure that the contact points of the bracket or of the main body are free from dirt.
Wipe the contact points clean.
Is the cord not broken? Even if the outside of the cord looks normal, a breakage in the wire can occur.
Replace the bracket and sensor set with a new one.

Maintenance
• To clean the computer or the attached parts, use diluted neutral detergent on a soft cloth, and wipe it off with a dry cloth.
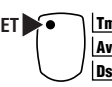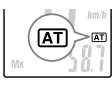
Replacing The Battery
When the display gets dim, replace the battery. If you want to retain and use the current reading of odometer, write down the odometer data before replacing the battery.
• Put a lithium battery CR2032 in the computer with the (+) mark facing up.
• After replacing the battery, do the necessary set-up of the computer in accordance with "Computer Set-up".

Measurement Display

Speed 0.0 (4.0) - 105.9 km/h
[0.0 (3.0) - 65.9 mph]

Average Pace Arrow
It shows that the current speed is faster or slower than the Average Speed.
Faster ▲ Slower ▼

Auto-mode Icon
When it is lit, the measurements are automatically started or stopped.

Wheel Icon
Indicates which wheel setting is selected.

Power Saving Screen
(When no signal is received for about one hour, the computer switches to the power-saving mode)

When you push either of the MODE button or the START/STOP button or you ride the bicycle, the display comes back to the measurement display.

You can program two tire sizes and use either of them.
Road ↔ MTB

Mode Selection Illustrations (bottom of the screen)

Av Average Speed
0.0 -105.9 km/h
[0.0 - 65.9 mph]
22.6

Dst Trip distance - 1
0.00 -999.99 km [mile]
12.34 ◄ ► 6.85

Trip distance - 2
0.00 - 999.99 km [mile]
* Resetting of Dst2 only

Odo Odometer
0.0 - 99999 km [mile]
1234.5

Mx Maximum Speed
0.0 (4.0) - 105.0 km/h
[0.0(3.0) - 65.0 mph]
30.8

Tm Elapsed Time
0:00'00" - 9:59'59"
0.12.34

Clock
0:00 - 23:59
[1:00 - 12:59]
10.10

For 2 sec. MODE / MODE

How to select tire size Ⓐ or Ⓑ
When data other than Odo is displayed
SET
Keep on pressing the button for two seconds
When the Odo data is displayed
MODE
Road ↔ MTB
Keep on pressing buttons for 2 sec. at the same time

Inputting the Tire Circumference
Range of setting: 100 - 300 cm
Return to Odo SET
SET
210
When the measurements are stopped
Increase the number (MODE)
Decrease the number (ST/STOP)

Setting The Clock Time
24 hour or 12 hour system is to be used with km/h or mph unit respectively
Return to Clock display SET
Increase the number (MODE)
SET
When the measurements are stopped.
10.10 ◄ ► 11.10
Set the hour / Set the minute (ST/STOP)

Specifications

Battery Life : A Lithium Battery (CR2032), Approx:3 yrs (approx:1 hrs per day usage)
Control System : 4-bit 1-chip micro-computer (with a crystal oscillator)
Display : Liquid crystal display
Sensing System : No-contact magnetic sensor
Range of Tire Circumference : 100 cm – 300 cm (Initial value – A:210 cm B:205 cm)
Range of Operational Temperature : 0°C – 40°C [32°F – 104°F]
Dimension and Weight(Computer) : 38 x 54 x 17.5 mm [1-1/2 x 2-1/8 x 11/16"] / 28 g [1.0 oz]
* The factory-loaded battery life might be shorter than the above-mentioned specification.
* The specifications and design are subject to change without notice.

Limited Warranty
2-Year Warranty : Computer Head Only (excluding the attached parts and deteriorated battery)
If any trouble or damage occurs during normal use, the product computer will be repaired or replaced free of charge. Type your name, address, telephone number or e-mail address, date of purchase and the situation of trouble and send it back together with the product to the closest address below. Transportation charges shall be borne by the customer. After being repaired, the product will be shipped back to the customer.

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     URL: http://www.cateye.com

* Accessory parts are available for the customers as shown below.

Standard Parts
#169-9350 Heavy Duty Wire and Bracket Sensor Kit
#169-9755 Attachment Kit
#169-9691 Wheel Magnet
#166-5150 Lithium Battery (CR2032)

Optional Parts
#169-9300 [169-9305] Bracket Sensor Kit [Long]
#169-9302 [#169-9307] Center Mount Bracket Kit [Long]
#169-9303 Bracket Sensor Kit for Aero Bar
#169-9304 Stem Mount Bracket Kit