



# Bicycle Computer

**CY-533**

Manual

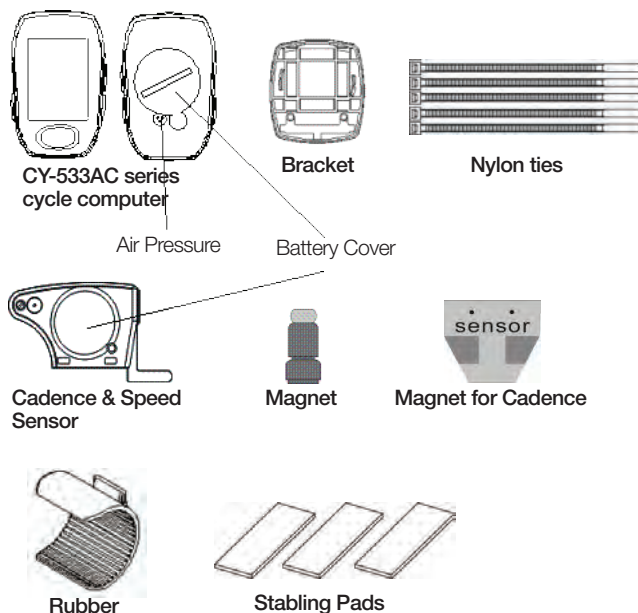


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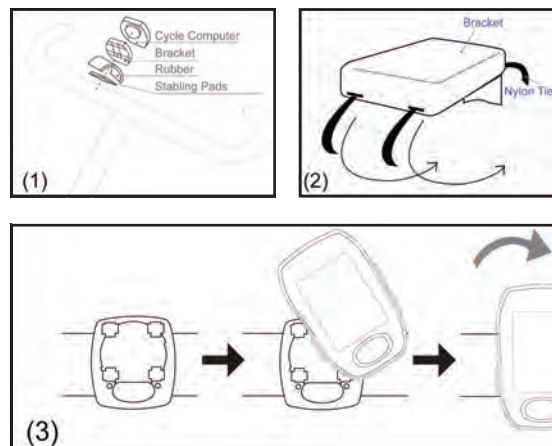
## Chapter 1 Item list

Please check that all the following items have been included with your cycle computer before starting.

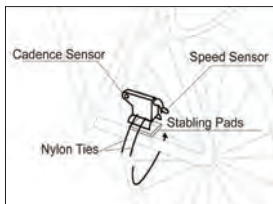


## Chapter 2 Operation

### 2.1 attaching bracket on the handle bar

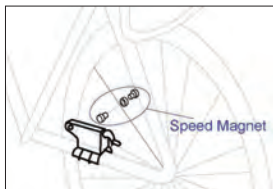


## 2.2 attaching speed sensor/magnet on bicycle



### Installing the Cadence & Speed Sensor

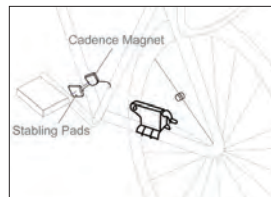
Check the right side of the Chain Stay to find the suitable point to attach the Cadence & speed sensor. The distance between cycle computer & the sensor would be within 150 cm.



### Installing the Speed Magnet

Put the Speed Magnet on the left spokes of the back wheel and must face the speed sensor.

*Note: Turn the speed handle to adjust speed sensor. The Max distance between speed sensor and Magnet should be within 1mm~5mm.*



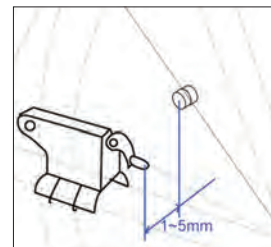
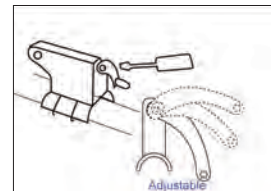
### Installing the Cadence Magnet

Put the Cadence Magnet on the Crank and must face Cadence Sensor

*Note: The max distance between the Cadence sensor and Magnet should be within 5mm.*

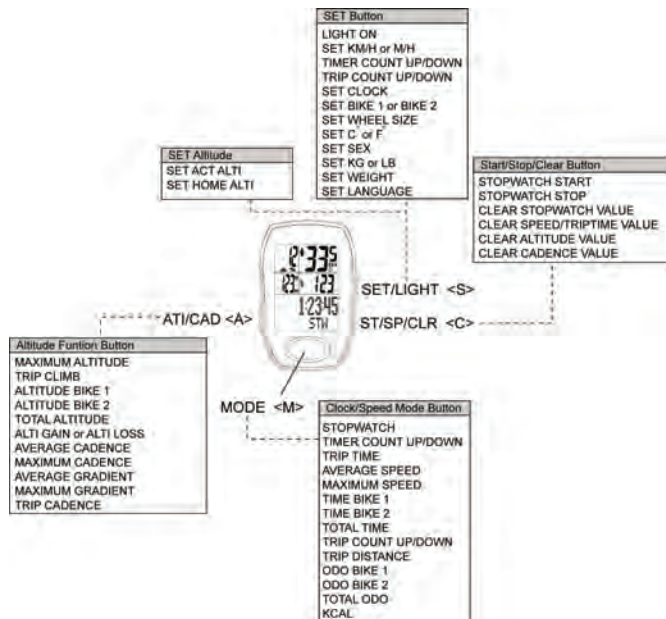
Please check green light on the Cadence & Speed sensor to make Bitmap sure 2 functions operated normally when riding your bicycle at first time.

*Note: Please turn around the wheel to check the green light on the sensor, Initial flashing green light indicates the sensor detected magnet signals normally.*



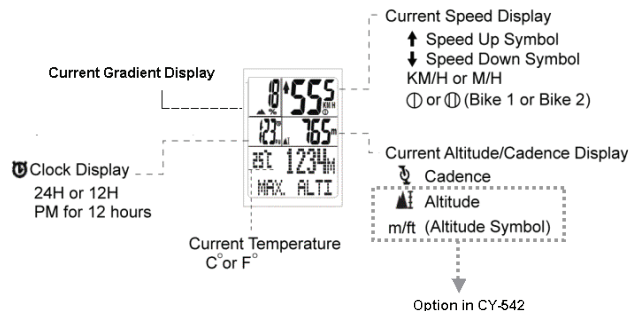
**Chapter 3**

# Nomenclatur



**Chapter 4**

# Main Screen Display



## Chapter 5

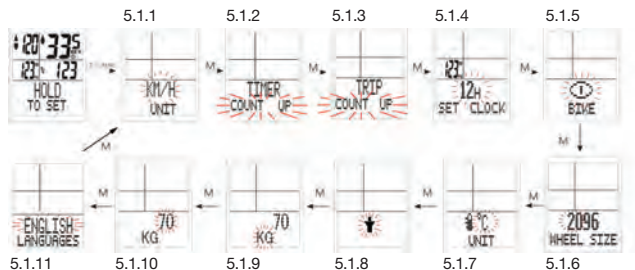
# Basic Setting

Before starting the device, please set the basic settings in advance to get more accurate and useful information from device.

### 5.1 Clock/Speed Setting mode

- Press **[M]** key to get into clock/speed mode.
- Under any mode, press **[S]** key for 2 seconds.

#### Screen



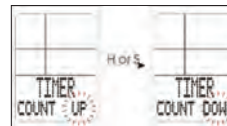
#### 5.1.1 KM/H or ML/H



The user can select the unit for speed which will be displayed on the screen.

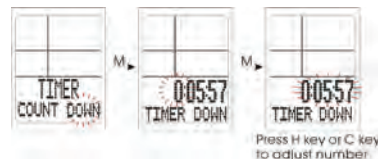
- Under KM/H or ML/H, press **[C]** key or **[A]** key to switch one another.
- Press **[M]** key to transfer next setting!

#### 5.1.2 TIMER COUNT UP or TIMER COUNT DOWN

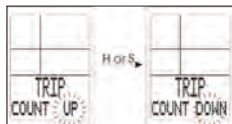


The user can select TIMER COUNT UP or TIMER COUNT DOWN. After selects the unit, it (COUNT UP / COUNT DOWN) will display.

- Under TIMER COUNT UP or TIMER COUNT DOWN, press **[C]** key or **[A]** key to switch another one.
- Press **[A]** key or **[C]** key to adjust number.
- Press **[M]** to transfer next setting!

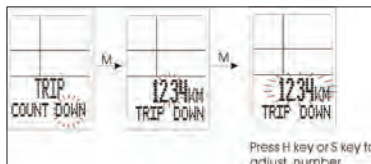


## 5.1.3 TRIP COUNT UP or TRIP COUNT DOWN



The user can select TRIP COUNT UP or TRIP COUNT DOWN in the setting mode. After selects the function, it (TIMER UP / TIMER DOWN) will display.

- Under TRIP COUNT UP or TRIP COUNT DOWN, press **[A]** key or **[C]** key to switch one another.



- Under TRIP COUNT DOWN, press **[M]** key to set up distance for TRIP COUNT DOWN.
- Press **[A]** key or **[C]** key to adjust number .
- Press **[M]** to transfer next setting!

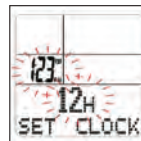
## 5.1.4 CLOCK



Under SET CLOCK

- Press **[A]** key or **[C]** key to adjust number (12H, 24H, hour, minute, second).
- Press **[M]** to transfer next setting!

## 5.1.5 BIKE 1 or BIKE 2



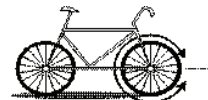
CY-533AC contains two bike setting, it allows the user to use this device for two bikes with different wheel size.

Under BIKE 1 or BIKE 2

- Press **[A]** key or **[C]** key to adjust number
- Press **[M]** to transfer next setting!

## 5.1.6 WHEEL SIZE

To get the accurate result from the device for speed value or other information, the wheel size must be correct. Mark the symbol on the tire and ride one circle. Then measure the length between two points that result comes out. Or determine the wheel circumference by the following equation:



Circumference (mm) = 2x3.14xR (inch) x2.54 (1 inch = 2.54 cm)  
R=Radius in centimeter

Please also refer the “**wheel size chart**” on the last page to find out the wheel size.



Under WHEEL SIZE

- Press **[A]** key or **[C]** key to adjust number
- Press **[M]** to transfer next setting!

## 5.1.7 TEMPERATURE

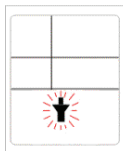


The user can select temperature unit (°C or °F) that will be display on the screen.

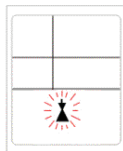
Under Temperature

- Press **[A]** key or **[C]** key to adjust number.
- Press **[M]** to transfer next setting!

## 5.1.8 Set Sex



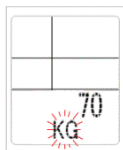
A or C →



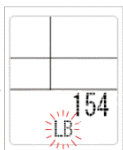
Under Set Sex

- Press **[A]** key or **[C]** key to adjust symbol of male or female.
- Press **[M]** to transfer next setting!

## 5.1.9 Set KG or LB



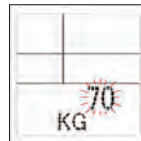
A or C →



Under Set KG or LB

- Press **[A]** key or **[C]** key to adjust weight symbol.
- Press **[M]** to transfer next setting!

## 5.1.10 Set Weight



Under Set Weight

- Press **[A]** key or **[C]** key to adjust number.
- Press **[M]** to transfer next setting!

## 5.1.11 LANGUAGE



CY- 533AC offers 5 different languages (ENGLISH, FRANCAIS, DEUTSCH, ITALIANOL, ESPANOL) for the user to choose, after selecting the preferred language, all the displays will change to the selected language.

Under LANGUAGE

- Press **[A]** key or **[C]** key to switch language.
- Press **[M]** to transfer next setting or press **[S]** key for 2 seconds to leave setting mode.

*Note: under any setting mode, press **[S]** for 2 seconds to leave setting mode!*



## 5.2 Altitude Mode Setting

- Press **[A]** key to get into altitude mode.
- Under any altitude functions, press **[S]** key for 3 seconds.



### 5.2.1 ACTUAL ALTITUDE



Because air pressure will be influenced by temperature or weather changes while going out for a ride. In order to correct the influence of the weather change or temperature changes, the user can also adjust the actual altitude on CY-533AC. If the user sees a road sign indicating actual altitude that differs from the actual altitude value on the device, the user may adjust actual altitude according to the sign.

Under ACT. ALTI

- Press **[A]** key or **[C]** key to adjust actual altitude.
- Press **[M]** to transfer next setting.

### 5.2.2 HOME ALTITUDE



The "home altitude" is the altitude of the starting location (home or starting point). This value can be found by maps, internet or newspaper. Once the number is entered into CY-533AC, it will calculate automatically. The accurate calculation of altitude requires the precise information for home altitude. To make CY-533AC indicating altitude and climbing more precisely, home altitude must be set up in advance.

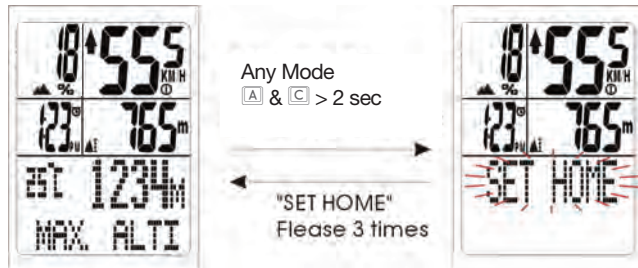
- Press **[A]** key or **[C]** key to home altitude.
- Press **[M]** to transfer next setting.

# Basic Functions Indication

CY-533AC has 4 different modes with individual functions to use for cycling. Before starting the device, you need to get more details information about each functions!

### 5.2.3 RE-CALIBRATING THE ALTIMETER

Due to change in local barometric pressure influenced by temperature and wind, the user may notice the ending altitude is different from the home altitude as day goes by. It is normal because of pressure influences over time. So before goes out for a ride, we suggest to call back the home altitude value in CY-533AC.

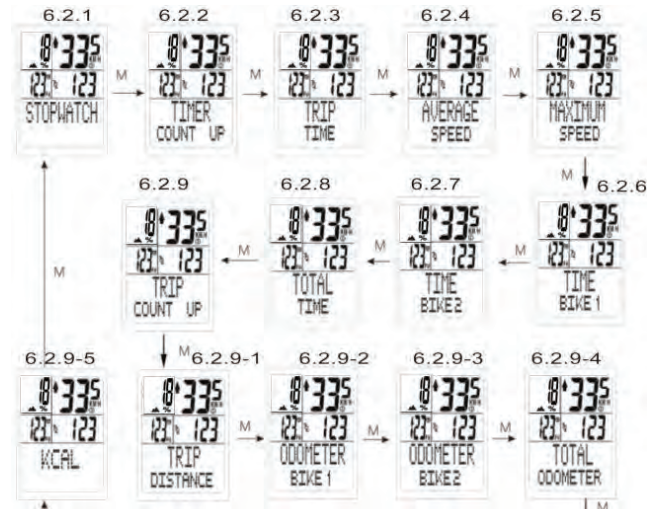


- Under any mode, press and hold [A] key and [C] key at same time for 3 sec until "SET HOME" display.
- The user can call back the value for home altitude you have entered before at any time.

### 6.1 Clock/Speed Functions

- Press [M] key to get into clock/speed functions.

#### Display Changes



## 6.1.1 ACTUAL ALTITUDE

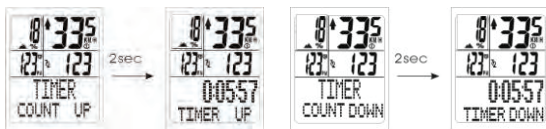


Sub-function of clock/speed function.

The user can press [C] key to start or stop the function of stopwatch,

To clean the time, by holding [C] key for 3 seconds.

## 6.1.2 TIMER COUNT UP/TIMER COUNT DOWN



Sub-function of clock/speed function.

Timer count up: The timer will increase while riding the bicycle.

Timer count down: The timer will decrease towards zero while riding the bicycle.

The user can set up the count down time in the setting mode.

### NOTE

The user can select count up or count down in the setting mode.

After selects the display method, it (TIMER UP / TIMER DOWN) will display!

## 6.1.3 TRIP TIME



Sub-function of clock/speed function.

Displays the user's trip time from the beginning to the current point.

## 6.1.4 AVERAGE SPEED



Sub-function of clock/speed function.

Displays the user's average speed from the beginning to the current point .

## 6.1.5 MAXIMUM SPEED



Sub-function of clock/speed function.

Displays the user's maximum speed from the beginning to the current point .

## 6.1.7 TIME BIKE 2



Sub-function of clock/speed function.

Displays the total riding time for Bike 2.

## 6.1.6 TIME BIKE 1



Sub-function of clock/speed function.

Displays the total riding time for Bike 1.

## 6.1.8 TOTAL TIME



Sub-function of clock/speed function.

Displays the total riding time (Bike 1 + Bike 2).

## 6.1.9 TRIP COUNT UP/TRIP COUNT DOWN



Sub-function of clock/speed function.

Trip count up: The distance will increase while riding the bicycle.

Trip count down: The distance will decrease towards zero while riding the bicycle.

The user can set up the count down distance in the setting mode.

### NOTE

The user can select count up or count down in the setting mode.

After select the display method, it (TRIP COUNT UP / TRIP COUNT DOWN) will display.

### 6.1.9-1 TRIP DISTANCE



Sub-function of clock/speed function.

Displays the user's trip distance from the beginning to the destination.

### 6.1.9-2 ODO BIKE 1



Sub-function of clock/speed function.

Displays the odometer of first wheel size setting.

### 6.1.9-3 ODO BIKE 2



Sub-function of clock/speed function.

Displays the odometer of second wheel size setting.

### 6.1.9-4 TOTAL ODO



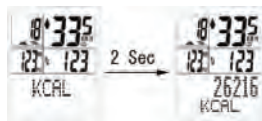
Sub-function of clock/speed function.

Displays the total odometer of bike1 + bike 2.

### NOTE

The number can not be erased by clear function, CY-533AC will keep the value of ODO BIKE1, ODO BIKE2 and Total Odometer in the memory even after the user changes new battery.

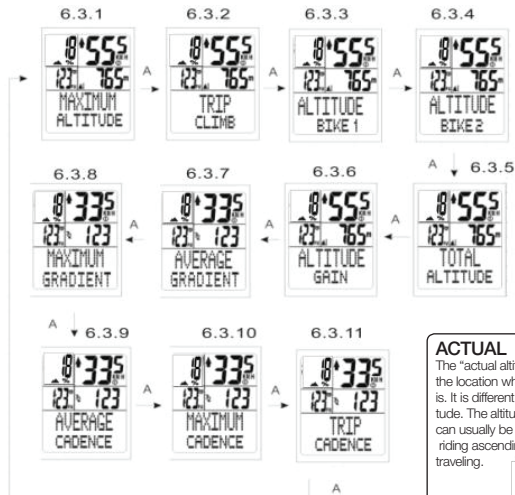
## 6.1.9-5 KCAL



## 6.2 Altitude/Cadence Functions

The CY-533AC uses barometric air pressure to measure the altitude. It can convert the data from current barometric pressure into the respective altitude.

### SCREEN DISPLAY CHANGE



### ACTUAL ALTITUDE

The "actual altitude" is the altitude of the location where the user currently is. It is different from the home altitude. The altitude information signs can usually be founded when riding ascending the mountain or traveling.

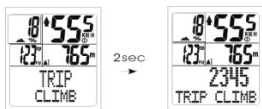


## 6.2.1 MAXIMUM ALTITUDE



Displays the maximum altitude for the trip.

## 6.2.2 TRIP CLIMB



The “TRIP CLIMB” tells the user the current climbing value for this trip.  
(TRIP CLIMB will increase only when riding uphill)

### NOTE

If the climbing does not reach more than 4 meters, trip climb will not increase.

## 6.2.3 ALTITUDE BIKE 1



If the user is riding under first setting of BIKE1, ALTI.BIKE1 will display the total Altitude value for BIKE1

### NOTE

This value cannot be erased by the clear function, unless apply the default setting.

(Refer to Default Setting Section)

## 6.2.4 ALTITUDE BIKE 2



If the user is riding under first setting of BIKE2, ALTI.BIKE2 will display the total Altitude value for BIKE2

### NOTE

This value cannot be erased by the clear function, unless apply the default setting.

(Refer to Default Setting Section)

## 6.2.5 TOTAL ALTITUDE



Display total altitude value of bike1 + bike2

### NOTE

This value cannot be erased by the clear function, unless apply the default setting.

(Refer to Default Setting Section)

## 6.2.6 ALTITUDE GAIN or ALTITUDE LOSS

Altitude gain and loss tells the user how high or low current riding is.

Altitude Function can be set into two systems. The metric system (m/min) or British system (feet/min)

If the user is riding uphill, the screen will display ALTI.GAIN. with value increasing.

If the user is riding downhill, the screen will display ALTI. LOSS. with value decreasing.



## 6.2.7 AVERAGE GRADIENT

Display average gradient from the beginning to the current point.



## 6.2.8 MAXIMUM GRADIENT

Display maximum gradient from the beginning to the current point.



## 6.2.9 AVERAGE CADENCE

Display average cadence from the beginning to the current point.



## 6.2.10 MAXIMUM CADENCE

Display maximum cadence from the beginning to the current point.





## 6.2.11 TRIP CADENCE

It display total cadence for one trip.



Under TRIP CADENCE, press key for 2 seconds  
(AVERAGE CADENCE, MAXIMUM CADENCE, TRIP CADENCE will return to zero)

## 6.3 CLEAR FUNCTIONS

Using key (clear button) to make the value to return zero!

### Clear The Measured Value For Altitude Function

Under TRIP CLIMB, press key for 2 seconds  
(MAXIMUM ALTITUDE, TRIP CLIMB, ALTITUDE GAIN, ALTITUDE LOSS will return to zero.)



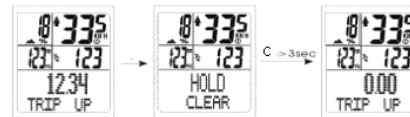
### Clear The Measured Value For Timer Count Up / Timer Count Down

Under TIMER COUNT UP or TIMER COUNT DOWN, press key for 2 seconds  
(TIMER COUNT UP will return to zero or TIMER COUNT DOWN will return to default setting.)



### Clear The Measured Value For Trip Count Up / Trip Count Down

Under TRIP COUNT UP or TRIP COUNT DOWN, press key for 2 seconds  
(TRIP COUNT UP will return to zero or TRIP COUNT DOWN will return to default setting.)



# ID Scan for Coded Speed

## Clear The Measured Value For Average Cadence, Trip Cadence At The Same Time

Under TRIP CADENCE, press [C] key for 2 seconds  
(AVERAGE CADENCE, MAXIMUM CADENCE, TRIP CADENCE will return to zero.)



## Clear All The Measured Value Except ID Codes by DEFAULT SETTING

Under STOPWATCH MODE, press and hold all [M] [S] [C] keys at the same time for 6 sec until all the values return to default values.



The default setting will keep the ID Code and the Clock after all the default values.

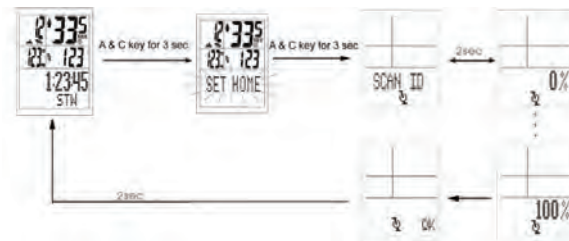
The advance of 2.4Ghz wireless transmitting technology is stabilized signals from the chest belt or speed sensor to the cycle computer. CY533AC can avoid noise interference from other devices while it is working with speed sensor. Each device and sensor has been ID SCAN after manufacturing. So the user can start to use the product immediately without doing ID SCAN.

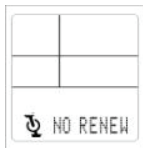
The main purpose of ID SCAN is to pair up the cycle computer to its speed/cadence sensor as well as to prevent signals and cross talk from other cycle computers. Each cycle computer set has been pre-ID Scan right after it's produced, so the users do not necessarily need to run ID-SCAN after their purchase. The users would need to run ID-SCAN as if additional speed/cadence sensor are being replaced or for purpose of second bike uses.

### NOTE

The BIKE1&BIKE2 can coordinate with one individual code from one speed sensor or two individual codes with additional speed sensor, chest belt respectively.

Under any mode, press [A] key and [C] key at same time for 6 seconds. When the percentage of 100% shows scan completed.  
(Please note that speed sensor have to be in wake up mode)





- If “NO RENEW” sign shows on the displayer when scan completed, it means ID scan failure. The user may press key again to scan again.
- The mode returns to Clock mode after 30 seconds automatically.

## Chapter 8

# Low Battery Indication

If low power for the battery, under Clock mode CY-533AC will display the signal to indicate the low battery information.



## Chapter 9

# Battery Replacement

### CY-500 series computer:

Unscrew the back cover. The (+) side should be facing up. Gently remove the battery and replace it with a new battery model CR2032.

### Sensor:

Unscrew the back cover. The (+) side should be facing up. Gently remove the battery and replace it with a new battery model CR2032.

## Chapter 10 Troubleshooting

### Q1. Display is black or very light:

The battery power may be low. Try a new battery to make sure the battery is installed correctly.

### Q2. Display becomes dark or black:

The unit is too hot. Place the unit in a shaded area, and it will return to normal.

### Q3. The unit operates slowly or struggled:

The unit is too cold. Warm the unit, and it will return to normal.

### Q4. Date in display varies enormously:

Check your surroundings for electro magnetic or high energy interference and move away from the source of interference.

### Q5. Data in display shows slowly:

The unit may be affected by low temperature factor but it didn't influence the function reading. When the temperature rises, the data reading/ witch will back to the normal.

### Q6. Current speed does not appear

It may be caused by the following situation: the distance & position between magnet and sensor to adjust or low battery power.

## Chapter 11 Specifications

	Receiver	Speed Censor / Cadence	Transmitter & Belt
Operating Temperature	0 °C~ 50 °C	0 °C~ 50 °C	0 °C~ 50 °C
Storage Temperature	-10 °C~ 60 °C	-10 °C~ 60 °C	-10 °C~ 60 °C
Emitted Frequency	2.4GHz	2.4GHz ± 5%	2.4GHz ± 10%
Battery	3 volt lithium 2032cell	3 volt lithium 2032cell	3 volt lithium 2032cell
Weight	30.6 grams	20 grams	65 grams ± 10% (including belt)

**Stopwatch Range: 0~29 (hour): 59 (minute): 59 (Second)**

**Current Speed Range: 0~99.9 KM/ 0~62 Mile**

**AVG Speed Range: 0~99.9 KM/ 0~62 Mile**

**MAX Speed Range: 0~99.9 KM/ 0~62 Mile**

**(Trip) Distance Range: 0~999.99 KM/0~600 Mile**

**Odometer Range: 0~9999m/ 0~62000 Mile**

**Actual Altitude: 0~3999m/0~9999Feet**

**Max Altitude: 0~3999m/0~9999Feet**

**Trip Climb: 0~9999m/0~9999Feet**

**TOTALCTI: 0~99999m/0~99999Feet**

**ALTI, Gain/ Loss: 0~0199m/0~999Feet**

**Chapter 12**

# Limited Warranty

**This product is for three years limited warranty commencing on the date of purchase. The product will be free from defects in material and workmanship for three years from the date of purchase.**

- Warranty does not cover the batteries, damages due to misuse, abuse or accidents, cracked or broken cases, negligence of precautions, improper maintenance or commercial use.
- Warranty is void if the repairs are done by non authorized service technician.
- The warranties contained herein are expressly in lieu of any other warranties including implied warranty of merchantability and/ or fitness for purpose. In no event shall manufacturer be liable for any damages, direct or incidental, consequential or special, arising out of or related to the use of this manual or the products described herein.
- During this warranty period (three years) the product will either be repaired or replaced without charge.

**Chapter 13**

# Important Health Notice

**Please read over the following information before using the Cycle Computer.**

- Never use the cycle computer in combination with other medical/implanted electronic equipment and device (especially heart pacemakers, EKG equipment, TENS equipment, cardio-pulmonary machines and pacemaker.)
- If you are severely ill or pregnant, please consult your doctor before using cycle computer.
- Keep this device away from children. It contains batteries, which might be swallowed by children.
- As with most electronic receiving devices, there can sometimes be interference that causes inaccurate display readouts. Avoid using your cycle computer near common sources of interference. These include high voltage power lines, air conditioning motor units, fluorescent lights, wristwatches, mobiles, and computers.

## Chapter 14

# Wheel Size Chart

Tire Scale	L (mm)
14 x 1.50	1020
14 x 1.75	1055
16 x 1.50	1185
16 x 1.75	1195
18 x 1.50	1340
20 x 1.75	1515
20 x 1-3/8	1615
20 x 1-3/8	1770
22 x 1-1/2	1785
24 x 1	1753
24 x 3/4 Tubular	1785
24 x 1-1/8	1795
24 x 1-1/4	1905
24 x 1.75	1890
24 x 2.00	1925
24 x 2.125	1965
26 x 7/8	1920
26 x 1(59)	1913

Tire Scale	L (mm)
26 x 1(65)	1952
26 x 1.25	1953
26 x 1-1/8	1970
26 x 1-3/8	2068
26 x 1-1/2	2100
26 x 1.40	2005
26 x 1.50	2010
26 x 1.75	2023
26 x 1.95	2050
26 x 2.00	2055
26 x 2.10	2068
26 x 2.125	2070
26 x 2.35	2083
26 x 3.00	2170
27 x 1	2145
27 x 1-1/8	2155
27 x 1-1/4	2161
27 x 1-3/8	2169

Tire Scale	L (mm)
650 x 35A	2090
650 X 38A	2125
650 X 38B	2105
700 X 18C	2070
700 X 19C	2080
700 X 20C	2086
700 X 23C	2096
700 X 25C	2105
700 X 28C	2136
700 X 30C	2170
700 X 32C	2155
700C Tubular	2130
700 X 35C	2168
700 X 38C	2180
700 X 40C	2200



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