# EN MCE310/315 Bicycle counter

## Initialization setting

### 1. All clear
5s | ① + ②

### 2. Unit selection
MPH / KMH

### 3. Circumference setting

### 4. Total distance setting

### 5. Maintenance setting

### 6. Weight setting

### 7. Clock setting

### 8. Back light setting
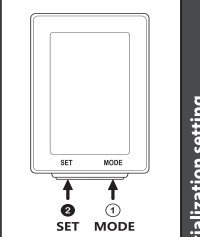
N=BUTTON NUMBER:
① : Mode Button
② : Set Button
2s means press the button for more than 2 seconds

SET MODE
② ①

## Main Function

### 9. Clock/Auto Scan

### 10. Stop watch

### 11. Distance

### 12. Riding time

### 13. Average speed/Maximum speed

### 14. Calories/total calories/fat burnt

### 15. Tep/highest tep/lowest tep

### 16. Data Reset

(DST=0) (TM=0) (AVSPD=0) (MXSPD=0) (TOTCAL=0) (FAT=0) (HI TEP=0) (LO TEP=0)

### 17. Automatic off

### 18. Battery change
COIN
Battery cap
3V CR2016

### 19. Tire circumference
2nd  1st

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## Function and Specification

**○ Current speed**
The current speed is always displayed on the top line when riding. It displays current speed up to 199.9KM/h or 199.9M/h.

**▲▼ Speed comparator**
Acceleration or deceleration comparing with average speed.

**CLK Clock**
It can display the current time in 24HR clock.

**⟳ : Auto-scanning display mode**
The computer will change DST(distance), TM(riding time), AV SPD (average speed) mode automatically every 2 seconds.

**STW : Stop watch**
Measure the time for short-distance riding. Press the set button 2 to start the stopwatch. Press the set button 2 again to stop the stopwatch. Press the set button 2 and keep it pressed for more than 2 seconds to reset the stopwatch to 0.

**DST : Distance**
The DST function accumulates the distance data from the last reset operation as long as the bike is being ridden.

**TOT DST : Total distance**
1. The computer calculate the total distance as long as the bike is riding, 2. The data can be set during initialization process.

**TM : Riding time**
The TM records the riding time from the last reset operation.

**AV SPD : Average speed**
1. It is calculated from the DST divided by the TM. The average data counted is from the last reset to current point. 2. It is updated every 3 seconds.

**MX SPD : Maximum speed**
It records the highest speed from the last reset operation.

**CAL : Calorie**
This value indicates the current calorie consumption.

**TOT CAL : Total calories**
This value indicates the total calorie consumption from the last reset operation.

**TEP : Temperature**
Long press set button 2 in this mode for around 5 seconds to change the display from ℃ to ℉ or vice versa.
TEP ▲ : Highest temperature  TEP ▼ : Lowest temperature

**Back light:**
LT1 mode: the back light will be on for 5 seconds when pressing any button in any mode within the set time period, LT2 mode: the back light will be on or off when holding "M" for 2 seconds.

**⚡: Maintenance program**
The maintenance symbol will be displayed to remind you for the parts replacement or to lubricate the chains and wheels after the preset distance is reached.

## Main Unit Setup

**1. Computer initialization (Fig.1)**
A CR2016 battery is already loaded in the main unit when purchased. Hold down the mode button 1 and set button 2 simultaneously for more than 5 seconds to initiate the computer and clear all data.

**2. Unit selection (Rys.2)**
Press mode button 1 to choose KM/H or MPH and press set button 2 to confirm.

**3. Circumference setting (Fig.3)**
Measure the value of your wheel size (Fig.19) or refer to the quick table (Fig.20). Press set button 2 to confirm the default value 2155mm directly and continue to the next setting. The setting range of wheel size is 1000m~2999mm. Precise measurement (Fig.19)

Roll the wheel until the value stem is at its lowest point close to the ground. Then mark this first point on the ground. Push the bicycle until the value stem returns to its lowest point. Mark the second point on the ground. Measure the distance between those two points and enter this value to set the wheel circumference.
Quick table (Fig.20): get a suitable circumference value from the table.

**4. Total distance setting (Fig.4)**
Press the set button 2 to confirm the default value "0" and skip to the next setting.

**5. Maintenance setting (Fig.5)**
Press the set button 2 to confirm the default value "0" and skip to the next setting.

**6. Weight setting (Fig.6)**

**7. Clock setting (Fig.7)**
The computer displays the " CLK" symbol at the clock setting.
Press the set button 2 for 3 seconds to reset the clock.

**8. Back light setting (Fig.8)**
Press mode button 1 to choose from back light 1 or 2 and press set button 2 to confirm. If choose back light 2, press set button 2 to finish the initialization and enter the main function display. If choose back light 1, press set button 2 to continue to set the time period (start time and end time).

**9. Reset operation (Fig.16)**
Hold down the set button 2 until the LCD digit is blanked, then release it. The computer could reset STW, DST, TM, AVSPD, MXSPD, TOTCAL, FAT, HIGHEST TEP and LOWEST TEP. In the clock function display screen, the clock and back light could be reset by holding down the set button 2 for more than 3 seconds, in the total distance function display screen, the unit, wheel size, total distance and maintenance distance could be reset by holding down the set button 2 for more than 3 seconds. In the calorie function display screen, the weight could be reset by holding down the set button 2 for more than 3 seconds.

**10. Automatic Start/Off (Fig.17)**
The computer will automatically begin counting data upon riding (Only wire version) and it will automatically switch off and just display clock data when it has not been used for 1 minutes in order to save power.
**Data setting process**
1. The data is adjusted each digit separately, The setting digit is flickering, 2. Quickly press the mode button 1 to increase the digital value by 1. 3. Press the set button 2 to store the data and change to the next setting.

**Suitable Fork Size:**
12mm to 50mmØ (0.5"to 2.0"Ø).

**Wireless Sensing Distance:**
60cm between the transmitter and the main unit.

**Operation Temperature:**
0℃~50℃ (32°F~122°F)

**Storage Temperature:**
-10℃~60℃ (14°F~140°F)

**Main Unit Battery Power:**
3V battery x 1 (CR2016), battery operating life is about 2 years. (Based on an average of 1.5 hours use per day)

**Transmitter Battery Power (Wireless version):**
3V battery x 1 (CR2032), About 24,000km/15,000 miles riding distance or 2 years battery operating life. (The original factory-attached battery life may be shorter than this period due to shipping and storage time)

**Dimensions and Weight:**
Main Unit: 40 x 63 x 17mm / 28.7g

## TROUBLE SHOOTING

| PROBLEM | CHECK ITEMS | REMEDY |
|---|---|---|
| Main unit No display | 1. Is the battery dead? 2. Is there incorrect battery Installation? | 1. Replace the battery. 2. Be sure that the positive pole of the battery is facing the battery cap. |
| No current speed or Incorrect data | 1. Is it at the MAIN UNIT SETUP or another setting screen? 2. Are the relative positions and gap between sensor and magnet correct? 3. Is the circumference correct? 4. Is the sensing distance too long or the installation angle of the sensor incorrect? 5. Is the sensor battery nearly exhausted? 6. Is any strong interference source nearby? | 1. Refer to the setting procedure and complete the adjustment. 2. Refer to (Fig.C-a) and re-adjust position and gap correctly. 3. Refer to "Circumference Setting" and enter correct value. 4. Refer to (Fig.C-b) and adjust distance or angle between the main unit and the sensor. 5. Replace with a new battery. 6. Move away from the source of interference. |
| Irregular display | | Refer to the "Main Unit Setup" and initiate the computer again. |
| LCD is black | Did you leave main unit under direct sunlight when not riding the bike for a long period of time? | Place main unit in the shade to return to normal state. No adverse effect on data. |
| Display is slow | Is the temperature below 0℃ (32°F) ? | Unit will return to normal state when the temperature rises. |

**PRECAUTIONS AND SAFETY ADVICE**
1. Don't leave the main unit exposed to direct sunlight when not riding the bike. 2. Don't disassemble the main unit or its accessories. 3. Check relative position and gap of sensor, magnet and main unit periodically. 4. Don't use thinner, alcohol or benzine to clean the main unit or its accessories when they become dirty. The device should only be cleaned on the outside with a soft dry cloth. 5. Remember to pay attention to the road while riding. 6. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

## 20. Popular tires circumference reference table

| Tire Size | Circumference Number | Tire Size | Circumference Number | Tire Size | Circumference Number | Tire Size | Circumference Number |
|---|---|---|---|---|---|---|---|
| 18 Inch | 1436 mm | 26x1.50 | 2030 mm | 28 Inch | 2234 mm | 700C | 2117 mm |
| 20 Inch | 1596 mm | 26x1.75 | 2045 mm | 28.6 Inch | 2281 mm | 700x20C | 2092 mm |
| 22 Inch | 1759 mm | 26x1.95 | 2099 mm | 29x2.10 | 2324 mm | 700x23C | 2112 mm |
| 24x1.75 | 1888 mm | 26x2.1 | 2133 mm | 29x2.20 | 2333 mm | 700x25C | 2124 mm |
| 24 Inch | 1916 mm | 27.5x1.95 | 2167 mm | 29x2.35 | 2354 mm | 700x28C | 2136 mm |
| 24x13/8 | 1942 mm | 27.5x2.10 | 2192 mm | | | 700x32C | 2155 mm |
| 26x1.40 | 1995 mm | 27.5x2.35 | 2229 mm | | | 700x35C | 2164 mm |
| | | | | | | 700x38C | 2174 mm |

**SAFETY ADVICE CONCERNING BATTERIES**
1. Always replace the old battery with new battery of same type, 2. Remove the battery if the product is not to be used for a long period, 3. If the battery is exhausted, remove it from the device immediately, Otherwise the battery is more likely to leak, 4. Make sure you insert the battery the right way round (polarity), 5. Keep the battery away from children, Do not throw the battery into a fire, Never short-circuit it or take it apart, 6. If your battery leaks, remove it from the device immediately to prevent the device from being damaged. 7. Do not let the fluid from a leaking battery come into contact with your skin, eyes or mucous membranes. In the event of contact with fluid leaking from a battery, thoroughly flush the affected area with water and / or seek the advice of a doctor! DISPOSAL OF BATTERY: Batteries must not be disposed of with the household refuse. They may contain toxic heavy metals and require to be handled as special waste. The chemical symbols of heavy metals are: Cd=cadmium, Hg=mercury, Pb=lead For this reason, you must dispose of discarded batteries at a communal disposal centre

A
B
C
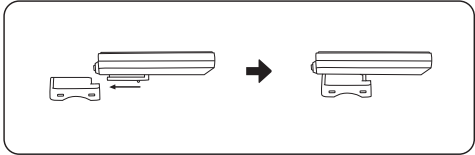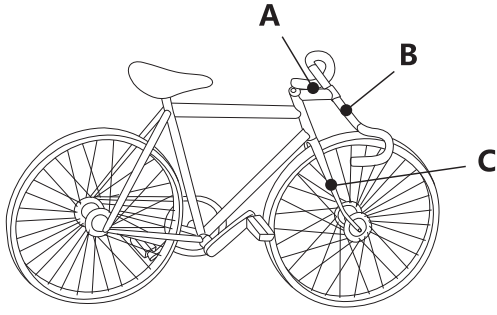
## Wireless version

## Wire version

### A. Mounting of the bracket: on the stem

A

### B. Mounting of the bracket: on the handlebar

B

### C. Mounting of the sensor and magnet

C

**C-a**

The distance between the sensor and maget is better to be smaller than 5mm.

**C-b**

90°

$L < 60cm$

**C-c**

COIN

Battery Cap

3V
CR2032

### A. Mounting of the bracket: on the stem

A

### B. Mounting of the bracket: on the handlebar

B

### C. Mounting of the sensor and magnet

C

**C-a**

The distance between the sensor and maget is better to be smaller than 5mm.