## 1. INTRODUCTION

**WARNING**

- Please dispose of the used batteries according to local regulations
- Keep the batteries and accessories away from children

## 2. FEATURES

- Current Speed (0-99.9 Km/h Or M /hr)
- Average Speed (0-99.9 Km/h Or M /hr)
- Max. Speed (0-99.9 Km/h Or M /hr)
- Trip Distance (Up To 999.99 Km Or M)
- Auto Trip Timer ( 9 : 59 : 59)
- Service Reminder
- Speed Comparator
- Speed Tendency
- Odometer Save Function
- Total Distance
- Digital Clock
- 12/ 24 Hour Selectable
- KM/ M Selectable
- Current Cadence
- Average Cadence
- Maximum Cadence
- Current Heart Rate
- Average Heart Rate
- Max. Heart Rate
- Min. Heart Rate
- Heart Rate Zone Alert
- Auto Power Off
- Auto Wake Up

## 2. GETTING PREPARED

The computer has three menus, the bike, cadence and the HRM. Icon BIKE is displayed in the bottom field when the bike menu is activated, while icon CAD is displayed in the bottom field when the cadence menu is activated.
Press the button B to toggle between the three menus.
Press the button A to toggle through various sub-features of each menu.

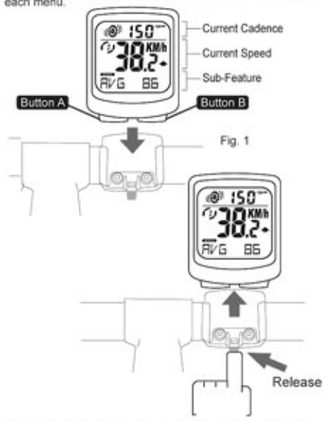



Fig. 1

**ATTENTION !! Refer to the appendix for installation reference.**

**THE BIKE**
**WHEEL SIZE FACTOR**
The wheel size factor is the distance the wheel turns in one revolution in millimeter. It is determined by the following formula: Wheel diameter (mm) X3.1416

For quick reference, you may use the wheel size factor chart below.

| Tire size | L (mm) | Tire size | L (mm) | Tire size | L (mm) |
|---|---|---|---|---|---|
| 12 x 1.75 | 935 | 26 x 1.00 | 1913 | 650 x 20C | 1938 |
| 14 x 1.50 | 1020 | 26 x 1(650) | 1952 | 650 x 23C | 1944 |
| 14 x 1.75 | 1055 | 26 x 1.25 | 1953 | 650 x 35A | 2090 |
| 16 x 1.50 | 1185 | 26 x 1-1/8 | 1970 | 650 x 35A | 2125 |
| 16 x 1.75 | 1185 | 26 x 1-3/8 | 2068 | 650 x 38B | 2105 |
| 18 x 1.50 | 1340 | 26 x 1-1/2 | 2100 | 700 x 18C | 2070 |
| 18 x 1.75 | 1350 | 26 x 1.40 | 2005 | 700 x 19C | 2082 |
| 20 x 1.75 | 1515 | 26 x 1.50 | 2010 | 700 x 20C | 2096 |
| 20 x 1-3/8 | 1615 | 26 x 1.75 | 2023 | 700 x 23C | 2096 |
| 22 x 1-3/8 | 1770 | 26 x 1.95 | 2050 | 700 x 25C | 2105 |
| 22 x 1-1/2 | 1785 | 26 x 2.00 | 2055 | 700 x 28C | 2136 |
| 24 x 1 | 1753 | 26 x 2.10 | 2068 | 700 x 30C | 2146 |
| 24 x 3/4 Tubular | 1785 | 26 x 2.125 | 2070 | 700 x 32C | 2155 |
| 24 x 1-1/8 | 1795 | 26 x 2.35 | 2083 | 700C Tubular | 2130 |
| 24 x 1-1/4 | 1905 | 26 x 3.00 | 2170 | 700 x 35C | 2168 |
| 24 x 1.75 | 1890 | 27 x 1 | 2145 | 700 x 38C | 2180 |
| 24 x 2.00 | 1925 | 27 x 1-1/8 | 2155 | 700 x 40C | 2200 |
| 24 x 2.125 | 1960 | 27 x 1-1/4 | 2161 | 29 x 2.1 | 2288 |
| 24 x 7.6 | 1520 | 27 x 1-3/8 | 2169 | 29 x 2.3 | 2326 |


Fig. 2

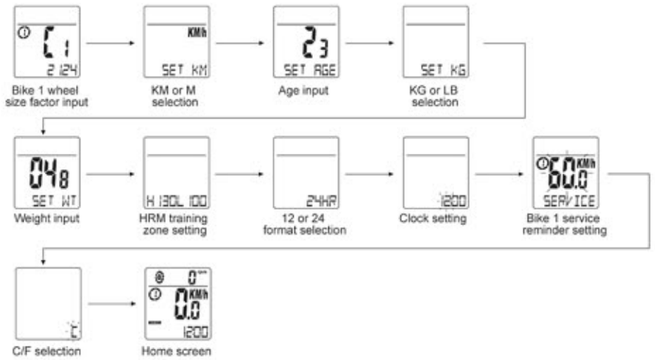
For most accurate value, please follow steps below:
1. Start by inflating the tire with proper pressure
2. Facing the tire valve to the ground and mark a spot on the ground (right below the valve)
3. With the rider's weight on the bike, roll one full rotation in a straight line (so roll until the valve face the ground again)
4. Measure the distance in millimeter.This value is your wheel size factor.

**SERVICE REMINDER**
It automatically tracks distance travelled and reminds you to service your bike according to the distance entered.
When the preset distance is reached, SERVICE will be displayed at the bottom field and ⓘ will be flashing.
Press button A to ignore this reminder.

## 3. GETTING STARTED

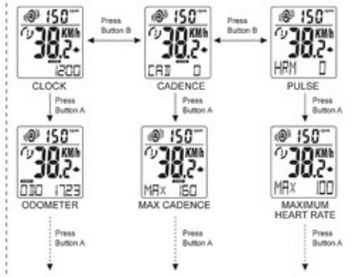
**SETUP MODE**
You can go to the setup mode by either:
a) Inserting the battery (if not installed)
b) Holding both **A** and **B** buttons

Press **B** button to adjust the value and the **A** button to enter and confirm the setting.




## 4. OPERATING THE COMPUTER

**SCROLLING THROUGH MENUS AND SUB-FEATURES**




SO_1860-62C-MCX235-MB-EL-APA
SIZE: (W)440mm x (H)99mm(單色雙面黑白印刷)
雙面印刷

## 5. OPERATING THE COMPUTER

**THE BIKE MODE:**

**CLOCK**
It shows the current time.
Hold the **A** button to reset the clock.
Press the **B** button to adjust the value and confirm with the **A** button.

**ODO (TOTODO-1)**
It measures distance accumulated for bike 1

**ODOMETER SAVE FUNCTION**
It allows you to re-input odometer for bike 1 after battery replacement. Hold the **A** button to re-input the odometer. Press the B button to adjust the wheel size factor of bike 1 if needed. Confirm with **A** button.

**TRIP DISTANCE (DST)**
It measures distance traveled on each ride

**MAXIMUM SPEED (MXS)**
It measures maximum speed reached.

**AVERAGE SPEED (AVS)**
It measures average speed.

**TRIP TIME (TM)**
It measures the time of each ride.

**TEMPERATURE (TEMP)**
It measures current temperature.
Hold the **A** button to change the temperature unit if needed. Press the **B** button to select and confirm with the **A** button.

**CALORIES BURNED (CAL)**
It measures calories burned.

**FAT BURNT (FAT)**
It measures fat burned in grams.

**SCAN**
It sets the computer to cycle through all features automatically while you ride

**SPEED TENDENCY**
Notice the ⓘ in the upper left hand corner of the middle display field. The icon is animated to spin when the wheel sensor is properly functioning and when you start your ride. It will appear to spin fast to indicate acceleration and appear to spin slow to indicate deceleration.

**SPEED COMPARATOR ( ◆ / ◆ )**
Notice the ◆ / ◆ icon located in the lower right hand corner of the middle display field. **A** ◆ indicates that you are riding faster than your average speed. **A** ◆ indicates you are riding slower than your average speed.

**THE CADENCE MODE:**

**MAXIMUM CADENCE (MAX CAD)**
It measures maximum cadence reached.

**AVERAGE CADENCE (AVG CAD)**
It measures minimum cadence.

**SCAN**
It sets the computer to cycle through all features automatically while you ride.

**THE HRM MODE:**

**MAXIMUM HEART RATE (MAX HR)**
It measures maximum heart rate reached.

**MINIMUM HEART RATE (MIN HR)**
It measures minimum heart rate.

**AVERAGE HEART RATE (AVG HR)**
It measures average heart rate.

**HEART RATE ZONE (ZONE)**
It indicates the heart rate zone you set.
Press button **A** to reset the heart rate zone.
Press button **B** to adjust the value and confirm by button **A**.

**HEART RATE ZONE ALERT**
Notice the ◆ / ◆ icon located next to the heart icon of the top display field. **A** ◆ indicates that your current heart rate is over the heart rate zone. **A** ◆ indicates your current heart rate is below selected heart rate zone.

**LOW BATTERY WARNING OF THE COMPUTER ( )**
Notice the icon located in between KM/h and ◆ / ◆ . It indicates low battery of the computer head.

**LOW BATTERY WARNING OF THE SENSORS**
Notice TX LOBAT displayed at the bottom field. It indicates low battery of either the speed or the cadence sensor. Press button A to ignore this warning.

**AUTO WAKE UP**
When there is a signal sending out from the sensor or the belt, this computer can auto wake up itself without pressing any button. In the first two hours after it turns off, it takes no more than 10 seconds the computer auto wakes up itself.
While after the first two hours, it takes less than 1 minute for the computer to auto wake up.

## TROUBLE SHOOTING

| | | |
|---|---|---|
| No speed or cadence reading | Improper magnet and sensor alignment | Check magnet and sensor alignment |
| | Dead battery of sensor | Replace the battery. Reset the computer and the sensor. |
| Improper and abnormal reading | Interference | Keep the unit away from any source of interference (e.g. CRT monitor and wireless devices) |
| | Wrong wheel size factor | Reset the computer and the sensor |
| Irregular reading | Ambient temperature | Reset the computer and the sensor |
| | Weak temperature Interference | |
| No HR reading | HR sensor not attached to your body securely | Adjust the chest strap to ensure good contact with your body |
| | Dry skin | Replace the battery |
| | Dead battery of sensor | Moisten the conductive pads with water or ECG-gel |
| | Dirty conductive pads | Clean the electrode pad with soft cloth dampening with diluted natural detergent. |

Art No.: MCX235-MB-EL-APA

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