Preparing the computer

How to install the unit on your bicycle

1. **Install the sensor and magnet**
   - The distance between the computer and the sensor must not exceed the transmission range of 70 cm. The back of the computer must face the sensor.
   - The magnet passes through the sensor zone.
   - The clearance between the sensor and magnet is 5 mm or less.
   - *The magnet may be installed anywhere on the spoke if the above installation conditions are satisfied.*

2. **Install the sensor on the right front fork**
   - Pull the sensor out of the sensor zone.
   - Install the sensor on the right front fork as high as possible. Spoke on the right.

3. **Attach the bracket to the stem or handlebar**
   - When attaching the bracket to the stem:
     - Stem
     - Nut
     - Sensor
     - Magnet
     - Sensor rubber pad
     - Bracket rubber pad
     - Nylon ties (x2)
   - Right front fork (inside)
   - Sensor zone
   - Pull it out as if lifting the tire. Cut it off if necessary.

4. **Remove/install the computer**
   - For wing type handlebar or oversized stem, bracket can be mounted using the Bracket Holder and nylon ties. (Optional)
   - After installation, check that the speed is displayed on the computer when gently turning the front wheel. When it is not displayed, check the positions of A, B, and C.

Preventing the computer

Before using the computer, please thoroughly read this manual and keep it for future reference.

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Starting/Stopping measurement

Measurements start automatically when the bicycle is in motion. During measurement, km/h or mph flashes.

Switching computer function

As shown in the figure, pressing MODE changes the measurement data at the top/bottom row display.

Resetting data

Pressing and holding MODE on the measuring screen resets the measurement data to 0.

Backlight

Pressing LIGHT turns on the screen illumination for about 3 seconds.

Power-saving mode

If the computer has not received a signal for 10 minutes, power-saving mode will activate and only the date/clock will be displayed. When you press MODE, the computer receives a sensor signal, and the measuring screen reappears. If another 60 minutes of inactivity elapses, SLEEP will be displayed on the screen with the SLEEP display, and pressing MODE returns it to the measuring screen.

ETA estimated time of arrival and progress graph

When you set the distance from your departure point to your destination point, the estimated time of arrival at that destination will be estimated and displayed based on the remaining distance and the average speed. When the progress in a graph is displayed, the progress data is updated.

Estimated time of arrival (ETA)

To set the target trip distance, you can select automatic setting or manual setting.

Automatic setting (AUTO)

Once you perform the resetting operation, the trip distance just before resetting is automatically set as a target trip distance.

Manual setting (MANU)

The distance from your departure point to your destination point is set manually from the "Target trip distance setting" on the Menu screen.

Date format setting

For the setting procedure, refer to "Target trip distance setting" on the Menu screen.

The ETA estimated time of arrival changes to ET. When the estimated time of arrival is estimated to be within 24 hours, it returns to the estimated time of arrival display.

The estimated time of arrival is fixed, but changes according to the trip conditions (speed, stop, etc.).

When the unit reaches the target trip distance, it changes to ETA. The ETA screen regardless of the measuring screen displayed, and then returns to the original measuring screen in 5 seconds after notifying the arrival.

The ETA "Estimated time of arrival" stops while displaying the current time; however, the computer continues measuring.

Data view (DST VIEW / CO2 VIEW)

This unit automatically saves the trip distance and the Carbon offset, which can be viewed for the day, week, month, year, and total.

Data view's contents and update timing

Trip distance and the Carbon offset saved are updated at 0:00 in the morning. The update timing for the day, week, month, and year is as follows:

**DAY**
- Trip distance per day: Data can be viewed for today and yesterday.
- At the time of updating at 0:00 in the morning, the unit saves yesterday's data, and discards the data for the day before yesterday.

**WEEK**
- The data for every 7 days starting from January 1st, regardless of the day of the week, is stored as data for the week, and last week.
- At the time of updating every 7 days, the unit stores the data for last week, and discards the data for the week before the last week.

**MONTH**
- The data starting from the 1st to the end of the month is stored as data for the month. Data can be viewed for this month and last month.
- At the time of updating at the beginning of a month, the unit stores the data for last month, and discards the data for the month before the last month.

**YEAR**
- The data starting from January 1st to December 31st is stored as data for the year. Data can be viewed for this year and last year.
- At the time of updating on January 1st, the unit saves the data for last year, and discards the data for the year before the last year.

**TOTAL**
- The total trip distance (Total Distance) can be viewed and the total Carbon offset since the computer started measuring.

When the total distance is entered manually, the entry is canceled.

How to calculate the Carbon offset (CO2 VIEW)

The Carbon offset is calculated as follows.

Trip distance (km) x 0.15 = Carbon offset (kg)

* This factor of 0.15 is determined by applying the average value of the overall gasoline-powered passenger cars in 2008 to the equation of the "Carbon offset from an internal combustion engine passenger car" described on the website of the Ministry of Environment, which estimates the amount of CO2 emissions from gasoline-powered cars.
How to restart

After changing the battery, or when the computer displays an error, restart the computer according to the following procedure.

* With the starting operation, the speed unit, date, tire size, and record data in the data view are retained.
* When the restarting operation is performed before 0:00 in the morning, the trip distance and the Carbon offset for the day are not saved due to the data view’s update timing. To retain measurement data for the day, perform the restarting operation before starting measurement on the next day.

1. Press the AC button on the back of the computer.
2. Set the date. To set the date, refer to “Preparing the computer-3”.
3. Set the clock. Refer to “Preparing the computer 4”.

Maintenance

To clean the computer or accessories, use diluted neutral detergent on a soft cloth, and wipe it off with a dry cloth.

Replacing the battery

If ** turns on, replace the battery. Install a new lithium battery (CR2032) with the (+) side facing upward. After the battery change, go through the restart operation, by pressing the AC button.

* Then restart the computer according to “How to restart”.

Sensor

When the speed is not displayed even after adjusting correctly, replace the battery. Install a new lithium battery (CR2032) with the (+) side facing upward. After replacement, check the positions of the sensor and magnet.

Troubleshooting

MODE does not work when the computer is mounted on its bracket.

Check that there is no dirt between the bracket and the computer.

Wash off the bracket with water to get rid of any dirt.

The sensor signal reception icon does not flash (the speed is not displayed). (Move the computer near the sensor, and turn the front wheel. If the sensor signal reception icon flashes, this trouble may be a matter of transmission distance due to battery drain, but not any malfunction.)

Check that the clearance between the sensor and magnet is not too large. (Clearance: within 5 mm)

Check that the magnet passes through the sensor zone correctly.

Adjust the positions of the magnet and sensor.

Is the computer installed at the correct angle?

Back of computer must face toward the sensor.

Check that the distance between the computer and sensor is correct. (Distance: within 20 to 70 cm)

Install the sensor within the specified range.

Is the computer or sensor battery weak?

In winter, battery performance diminishes.

Replace with new batteries. After replacement, follow the procedure “Replacing the battery”.

No display

Is battery in the computer run down?

Replace it. Then restart the computer referring to “How to restart”.

Incorrect data appear.

Restart the computer referring to “How to restart”.

Specification

<table>
<thead>
<tr>
<th>Battery</th>
<th>Computer: Lithium battery (CR2032) x 1, Sensor: Lithium battery (CR2032) x 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery life</td>
<td>Computer: Approx. 1 years (If the computer is used for 1 hour/day, the battery life will vary depending on the conditions of use.)</td>
</tr>
<tr>
<td>Sensor</td>
<td>Unit Total Distance reaches about 10000 km (6250 mile)</td>
</tr>
<tr>
<td>Transmission distance</td>
<td>Between 20 and 70 cm</td>
</tr>
<tr>
<td>Tire circumference range</td>
<td>0100 mm - 3999 mm (Initial value: 2096 mm)</td>
</tr>
<tr>
<td>Working temperature</td>
<td>32 °F - 104 °F (0 °C - 40 °C) (This product will not display appropriately when exceeding the Working Temperature range. Slow response or black LCD at lower or higher temperature may happen respectively.)</td>
</tr>
</tbody>
</table>

Dimensions/weight

Computer: 2-9/32" x 1-1/2" x 3/4" (58 x 38 x 19 mm) / 1.02 oz (29 g)

Sensor: 1-41/64" x 1-3/8" x 19/32" (41.5 x 35 x 15 mm) / 0.53 oz (15 g)

The factory-loaded battery life might be shorter than the above-mentioned specification.

* The specifications and design are subject to change without notice.

Open

Close

CR2032

#160-2190N
Speed sensor

#160-2193
Bracket

#160-0280N
Bracket band

#166-5150
Bracket

#160-2770
Bracket holder

Lithium battery (CR2032)

Standard parts

#160-2196

#160-2190N

#160-0280N

#166-5150

Optional parts