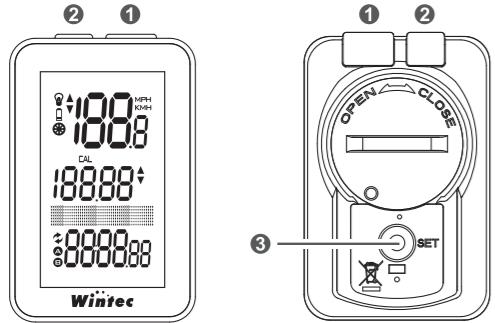




2.4GHz ANT+ Wireless Bike Computer Instruction Manual

Wintec

Design Patented



Overview

1 Function keys

- Press the button to switch and look through the cycling information on information page.
- In the setting mode, press the button to change numbers or measurement units.
- When entering the altitude adjustment, press the button to switch among three types of adjustment or the numbers.

2 Backlight / Switch keys

- On the information page, press the button can enable the backlight, and the backlight stays on 5 seconds before turning off.
- In the setting mode, press the button to shift the selected parts on numbers or units.
- When entering the altitude adjustment, press the button to shift the selected parts on the screen.

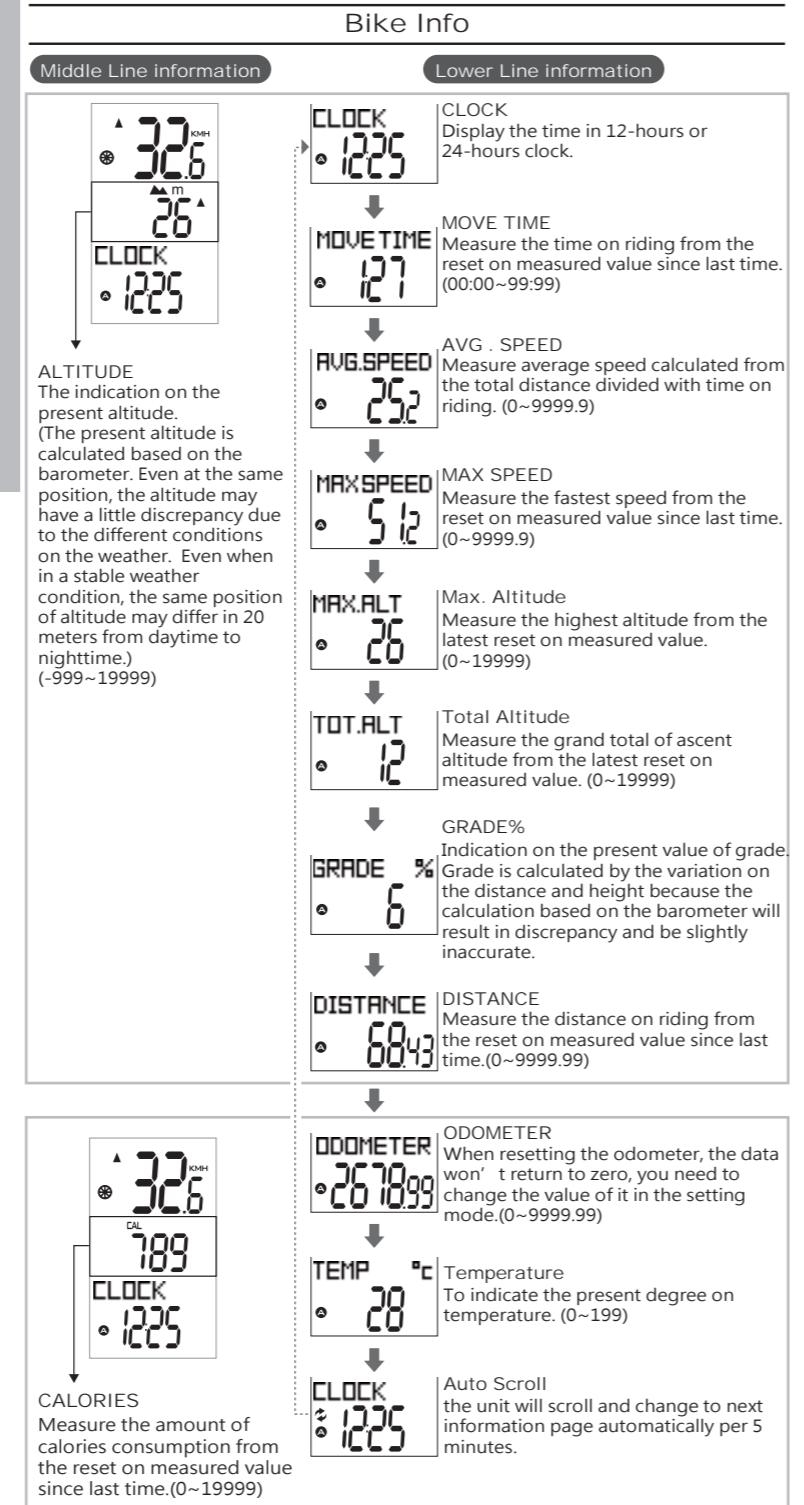
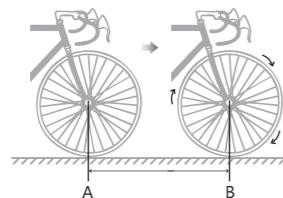
3 Setting Button

- In the information status, press and hold the setting button on the back for 3 seconds to enter the setting mode.
- In the setting mode, press the button shortly to scroll over the setting functions.
- In the setting mode, press and hold the setting button on 3 seconds again to return to the information page.

Wheel Size (Reference Chart)

Tire Size	L (mm)	Tire Size	L (mm)	Tire Size	L (mm)
12 x 1.75	935	26 x 7/8	1920	27 x 1-1/4	2161
14 x 1.5	1020	26 x 1(59)	1913	27 x 1-3/8	2169
14 x 1.75	1055	26 x 1(65)	1952	650 x 35A	2090
16 x 1.5	1185	26 x 1.25	1953	650 x 38A	2125
16 x 1.75	1195	26 x 1-1/8	1970	650 x 38B	2105
18 x 1.5	1340	26 x 1-3/8	2068	700 x 18C	2070
18 x 1.75	1350	26 x 1-1/2	2100	700 x 19C	2080
20 x 1.75	1515	26 x 1.40	2005	700 x 20C	2086
20 x 1-3/8	1615	26 x 1.50	2010	700 x 23C	2096
22 x 1-3/8	1770	26 x 1.75	2023	700 x 25C	2105
22 x 1-1/2	1785	26 x 1.95	2050	700 x 28C	2136
24 x 1	1753	26 x 2.00	2055	700 x 30C	2170
24 x 3/4 Tubular	1785	26 x 2.10	2068	700 x 32C	2155
24 x 1-1/8	1795	26 x 2.125	2070	700C Tubular	2130
24 x 1-1/4	1905	26 x 2.35	2083	700 x 35C	2168
24 x 1.75	1890	26 x 3.00	2170	700 x 38C	2180
24 x 2.00	1925	27 x 1	2145	700 x 40C	2200
24 x 2.125	1965	27 x 1-1/8	2155		

- Spin the wheel and choose one piece of the spoke or let the valve stem vertically straight to the ground to be A point marked on the surface of ground.
- Then spin the wheel in one circle and when the same piece of spoke or the valve stem reach to the ground again, mark the position of it as B point on the ground.
- Measure the distance between point A and B (mm) to acquire the wheel size for setting.



Data Reset

Press ① function key for 3 secs can clear the present data back to Zero except the altitude adjustment. For the altitude adjustment, please refer to the operation of Altitude adjustment Mode.

Power Saving Mode

If the main unit does not receive a signal or when keypads or sensor do not triggered after about 10 minutes, the main unit enters power saving mode and only displays the time info.

Auto Start / Stop

Under the power saving mode, press ① function key can wake up the information page.

LCD Contrast Adjustment

LCD contrast can be adjusted when the battery is installed on the unit. In the meantime, all the icons will show up on the display by 3secs, in the meantime, press ① function key, or ②Backlight/Switch key any of it to make adjustment. If the setting is done, press ③ setting Button to exist.

Pairing the Speed Sensor with Unit

If the unit needs to start pairing with sensor again, please enter the setting mode and performing the pairing under the page of S.Scan. Before scanning, you need to select A or B bike in advance; the system will store and input the sensor ID of A or B Bike automatically next time. (Please swing the magnet over the detection zone on the sensor to activate the sensor before performing the pairing with computer.)

Altitude Adjustment

Under the information browsing page, if any of the it contains the altitude related info(like MAX.ALT, TOT ALT, GRADE), in the meantime, press function key 1 for about 3 secs to enter the altitude adjustment mode.

There are three selections for altitude adjustment.

- ADJUST: Adjust and input the altitude manually according to any operating environment like riding along seacoast or up to the mountain and the height can be acquired on the positions.
- Home: Adjust and input the altitude manually according to the default altitude on your home.
- Default: Calculation on altitude according to the factory default.

Setting Mode

Enter / Return to the information page, press and hold the button for 3 seconds to enter the clock setting mode. Return to the information page, press and hold the button for 3 seconds again.

Clock Setting

- Function keys: Select time in 12-hours or 24-hours clock or set the time in lower line.
- Backlight/Switch keys: To shift the selected parts between 12-hours or 24-hours clock or time setting.
- Setting Button: Store the setting value and go to the next selection for clock or time setting.

KMH / MPH Setting

- Function keys: Select the indication on KMH or MPH unit.
- Setting Button: Store the setting value and go to the next selection for tire size setting.

A or B bike

- Function keys: Select the bike A or B.
- Setting Button: Store the setting value and go to the next selection for tire size setting.

Setting on Tire Size

- Function keys: Change the numbers of length.
- Backlight/Switch keys: Shift the selected parts on numbers.
- Setting Button: Store the setting value and go to the next selection for Odometer setting.

Odometer Setting

- Function keys: Change the numbers of odometer.
- Backlight/Switch keys: Shift the selected parts on numbers.
- Setting Button: Store the setting value and go to the next selection for odometer setting.

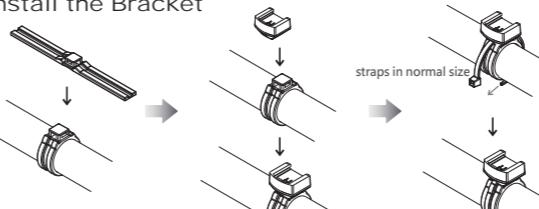
Speed Sensor Pairing

- Function keys: perform the pairing on speed sensor and return to the information page.
- Setting Button: go to the clock setting page.

Installing the Unit

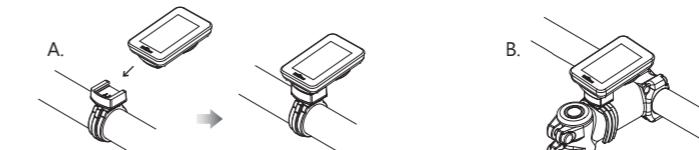


How to Install the Bracket



Install the Bike Computer

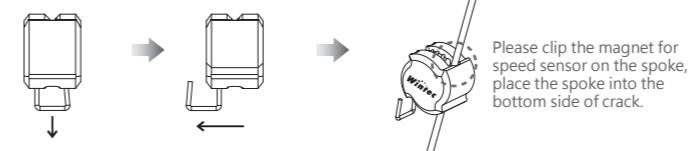
Install the bike computer on the A. handle bar or B. stem



★ Please make sure the unit has been well-clicked into the bracket.

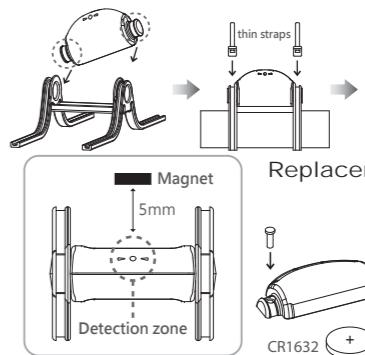
Installing on Magnet of Speed Sensor

- Please remove any dirty or oily things on the spoke to make sure no slipperiness before installing magnet.
- Release the safety hook on the magnet.
- Be sure to clip it on the spoke tightly into the most inner side of gap on the central of two-sided magnet.
- Lock the safety hook back on magnet in order to avoid it being thrown off in cycling.



Installing on the Speed Sensor

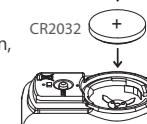
- Assemble the rubber desk with sensor.
- Please parallel detection zone on the sensor to the central surface on magnet.
- Measure the appropriate length of rubber desk when tie it up on the frame of bike with the straps and cut the additional parts off.



★ The sensor uses 2.4GHz transmission. It can be well-connected with bike computer no matter installed on front fork or chain stay.

Replacement of Battery

When there is a low-power icon appearing on the screen, please replace it with a new battery as soon as possible.



Maintenance

For cleanliness of the unit or accessories, moisten a soft cloth in and diluted neutral detergent and wipe it clean and dry with another towel.

Specification

Microcomputer 16-bit 1-chip (Crystal controlled oscillator)
Battery Bike Computer: 3Volt Lithium Battery CR2032 x 1

Speed Sensor: 3Volt Lithium Battery CR1632 X1
Bike computer: Approx. 10 months, calculated based on 1-hour consumption per day and depending on the extent on the usage.

Speed Sensor: Approx.12 months, calculated based on 1-hour consumption per day and depending on the extent on the usage.
*Please be aware that the frequent use on the backlight in operation will lead to faster power consumption.

Display Liquid crystal display

Tire Sizes Tire peripheral lengths from 0 to 9999 cm (Initial value: 2096 mm)
Working Temperature 0 °C ~ 40 °C (Please be aware that if the temperature is over high or low, it may result in a system delay or LCD turns dark.)

Dimension Bike Computer: 54 x 35 x 12mm / Speed Sensor: 46 x 26 x 15mm
Weight Bike Computer: 21g / Speed Sensor: 9g

* The life of the factory-loaded battery might be shorter than the description in usage.
★ The specifications and design are subject to change without notice.

Trouble Shooting

No Display:

- Check the battery capacities and it will be in low efficiency when in the cold season.
- If the battery installed upside down?
- Make sure the battery case locked on the unit.

No Speed info:

- Check if there are some dust inside the contacts on bracket or on the unit.
- Make sure the distances between sensors and magnet is within 5mm.

Not Correct Value on Speed and Distance:

- Make sure the correct value setting on tire peripheral.
- Make sure the distances between sensors and magnet is within 5mm.
- Unload the battery and install again.

The screen becomes dark:

Check if there is high temperature in environment.

The screen becomes dim:

Check if the power of battery is low.

System Delay:

- Check if there is over low temperature in environment.
- Check if the power of battery is low.

The inaccuracy on the altitude:

The present altitude is calculated based on the barometer, even at the same position, the altitude may have a little discrepancy due to the different conditions on the weather. Even when in a stable weather condition, the same position of altitude may differ in 20 meters from daytime to nighttime. The longer you are using the computer may lead to larger discrepancy. We suggest to manually input the present altitude when inaccuracy.

Notice !

Please read through instructions carefully before attempting to install WBC-301. Keep the manual at a place easily accessible, and do not throw away.

- Do not concentrate on the computer operations while bicycling. Always be sure to bicycling safety.
- Please check the distance between magnet and sensor within 5mm periodically.
- Never disassemble the main unit.
- Do not leave the main unit directly exposed to sunlight.
- Periodical check the positions on the magnet, sensors and bracket.
- WBC-301 only supports in ANT+ speed sensors. It does not support ANT+ cadence sensors or two-in-one sensors, heart rate sensors or other ANT+ accessories.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the installation, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio / TV technician for help

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions
(1) This device may not cause harmful interference
(2) This device must accept any interference received, including interference that may cause undesired operation.