Bell Wireless Speedometer™

Installation

BATTERY Make sure to write down the Odometer value before changing the battery so you can later re-enter it in the odometer. Install the new battery with the positive (+) pole facing outward **(Figure 1)**. After changing the battery all settings are erased.

Clamp the magnet to a spoke on the right side of the front wheel **(Figure 2)**. Make sure that the magnet is facing the outside of the wheel so that the flat side of the magnet passes in front of the sensor.

Attach the speedometer sensor to the right fork leg using the two cable ties provided. Make sure the metal side of the sensor is facing the wheel. Do not fully secure the cable ties yet, as the sensor location might require further adjustments **(Figure 3)**.

Adjust the sensor and magnet location so that clearance between the two is no greater than 1/5" (5mm) **(Figure 4)**. Magnet should pass by the tip of the sensor.

Remove the adhesive tape shield on the back of the bracket and position the bracket on the handlebar of the bicycle. Fasten the O-ring around the top edge of the bracket and wrap around the underside of the handlebar and attach to the bottom edge of the bracket. Insert the computer into the mounting bracket and twist to the right to lock into place.

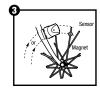## Components

Computer Unit

Computer Battery (3.0V/CR2032)

O-Rings (3)

Sensor

Mounting Bracket

Magnet

Cable Ties (2)

① ② ③ ④

Sensor

Magnet

or

Magnet

Bicycle fork

Magnet

5mm Sensor

Sensor

Top View

Programming the Computer

Wheel Size Input

The flashing number "2124" is the preset value. To determine the correct wheel factor, refer to the table shown. Set the wheel factor by pressing the Right button until the correct setting appears. Press the Left button to lock in the correct digit. Repeat until all four digits are entered.

Road Bike		Mountain Bike	
20"	1596	24"	1888
22"	1759	26"	2045
24"	1916	27"	2155
26"	2073	28"	2237
27"/700c	2124		

Km or Mile Selection

After setting the Wheel Factor the Km/M selection will appear. Press the Right button to choose kilometer or mile. Press the Left button to confirm.

12 or 24 Hour Format Selection

After setting the Km/M input selection, the clock format screen will appear. Press the Right button to choose between the two formats. Press the Left button to confirm.

KG or LB Selection

After the hour format selection, the Kg/Lb selection will appear. Press the Right button to choose between Kilograms (Kg) or Pounds (Lb). Press the Left button to confirm choice.

Once the weight unit is selected, the computer will ask the user to enter his/her weight. This will allow the computer to accurately estimate the number of calories burned while riding.

To enter the correct weight, press the Right button until the correct digit appears. Press the Left button to lock in the correct digit. Repeat until all digits are entered.

NOTE: The weight entered should be between 80–499Lb or 35–199Kg. The speedometer is now ready to use.

Clock

Set the time by pressing and holding the Right button until the hour is flashing. To set, press the Right button until desired setting is displayed. Press the Left button to confirm. Repeat steps for the minute setting.

Quickstart

Now that the speedometer is configured, insert the computer into the bracket and twist to the right to lock in place. To check for proper installation, spin the front wheel. The speed tendency icon in the upper left corner of the screen should be turning as the computer starts recording data (Refer to *Troubleshooting* in case of problems).

UPPER SCREEN

· Current Speed (SPD)
  0–199.9 Km/hr or M/hr

· Calories Burned (CAL)
  0–999.9 Calories Burned

· Speed Comparison (+ or -)

· Speed Tendency

LOWER SCREEN

· Trip Distance (DST)
  0–999.9 Km or M

· Trip Timer (TM)
  9 hrs 59 min 59 sec

· Odometer (ODO)

· Average Speed (AVS)

· Maximum Speed (MXS)

· Clock

Current Speed (SPD)

Current Speed represents instantaneous speed. It is displayed on the upper screen. The speedometer measures speeds up to 200Km/hr or 125 M/hr. If no keys are touched and no movement sensed from the bicycle for five minutes, the speedometer will go into sleep mode. Press any key to reactivate.

Calories Burned (CAL)

Calories Burned is displayed on the upper screen. It represents the accumulated number of calories burned while riding. The calorie count on the screen will start over once 999 calories have been burned. Calories Burned can be reset at any time by pressing and holding the Left button when "CAL" is displayed on the screen.

Speed Comparison (+ or -)

"+" or "-" appears next to the current speed. This function shows the positive or negative acceleration of your

current speed. If the current speed is higher than the average speed, a "+" is displayed on your screen. If the current speed is lower than the average speed, a "-" is displayed on the screen. Shows only when SPD function is on upper screen.

Speed Tendency

"Graphic" is the animation of the wheel moving.

Trip Distance (DST)

Press the Right button until "DST" appears. Trip Distance is displayed on the lower screen. It is activated automatically with the bicycle in motion. Trip Distance can be reset by pressing and holding the Right button for two seconds when "DST" is displayed on the screen.

NOTE: Resetting Trip Distance will automatically reset Trip Timer and Average Speed.

Trip Timer (TM)

Trip Timer is displayed on the lower screen. It is activated automatically with the bicycle in motion: it is on when you ride and off when you stop. To display the timer, press the Right button until "TM" appears. The timer records the total cycling time for each trip. Trip Timer can be reset at any time by pressing and holding the Left button for two seconds when the "TM" is displayed on the screen. Note: Resetting Trip Timer will automatically reset Trip Distance and Average Speed.

Odometer (ODO)

Odometer is displayed on the lower screen. Just like a car, it measures distance ridden over time. After changing the computer battery, ODO will be set to zero. The odometer can be reset to the previous value by pressing and holding the Left button for two seconds when "ODO" is displayed on the screen.

Average Speed (AVS)

Average Speed is displayed on the lower screen. It represents the average speed while riding. Press the Right button until the "AVG" appears. The average speed is measured over the total cycling time for each trip. A figure can be expressed in Km/hr or M/hr. The average speed can be reset at any time by pressing and holding the Right button for two seconds when the AVS is displayed on the screen.

NOTE: Resetting the Average Speed will automatically reset the Trip Timer and Trip Distance.

Maximum Speed (MXS)

Press the Right button until the "MXS" appears. This display will show the maximum speed during your ride. Maximum Speed can be reset at any time by pressing and holding the Left button for two seconds when the MXS is displayed on the screen.

Reset

Reset	What's Reset	What's Not Reset	How
Trip Reset	Calories Burned (CAL) Trip Distance (DST) Trip Timer Average Speed (AVS)	Clock Odometer (ODO) Maximum Speed	Press both main left and right buttons down for 2 seconds
Program Reset	Above functions plus: Wheel Circumference KM or Mile Selection 12-24 Hour Format KG or LB Selection User Weight Clock Max Speed (MXS)	Odometer	Press YELLOW button on Left back of speedometer with a pencil tip
Total Reset	All functions, including Odometer (ODO) are reset (same as when you change the battery)	Nothing	Press RED button on Right back of speedometer with a pencil tip

Backlight

Hold either left or right main button for more than 1 second to activate the backlight feature & illuminate the display screen

Troubleshooting

Problem	Possible Cause	Recommended Action
No speedometer display and/or no data reading	Interference from electrical sources Improper magnet/sensor alignment Poor battery contact or low/dead battery	Move computer to different area Ensure sensor & magnet are properly installed and aligned (p. 1) Replace battery
Slow display response	Temperature outside of operational limits (0-60°C or 32-140°F)	Only use computer when temperature is within operational limits
Display shows irregular features	Poor battery contact or low/dead battery	Replace battery
Black display	Temperature too hot or display exposed to sunlight too long Computer damaged or dropped	Only use computer when temperature is within operational limits. Remove from sunlight Computer is broken

FCC Warning

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, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 instructions, may cause harmful interference to radio communications.

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 & 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.