

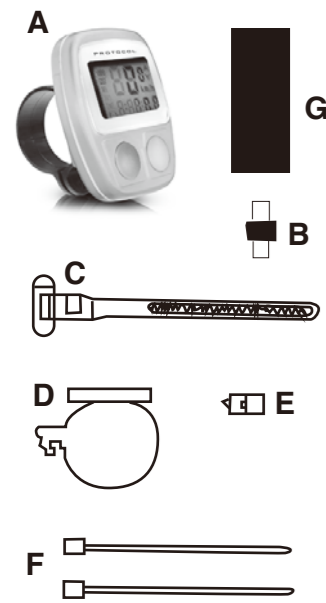
Instruction Manual for **Bike Brain™** Digital Cycling Computer



Read through this entire instruction manual BEFORE using the **Bike Brain Digital Cycling Computer**.

We're dedicated to bringing you well-designed products that make living fun and easy. We stand behind all our products and warrant this to be free from defects in workmanship and materials for 1 year from the date of purchase.

For questions please consult our website [ProtocolNY.com](http://ProtocolNY.com).



- PARTS**
- A. Counter
  - B. Plastic screw
  - C. Sensor bracket
  - D. Mounting shoe
  - E. Wheel magnet
  - F. Cable ties
  - G. Rubber piece

- MEASURES**
- Current speed
  - ODO** Odometer (total distance)
  - DST** Trip distance
  - MXS** Maximum speed
  - AVS** Average speed
  - TM** Trip time
  - R** Wheel rotation per minute

**Mounting the Sensor Bracket (Fig. 1)**

The sensor bracket attaches to the left side of the front wheel fork of the bicycle. Loosen the plastic screw on the bracket, hold the bracket at the desired place on the fork, and close the loop. Use the rubber piece to adjust the diameter for a snug fit. Tighten the screw.

Unscrew the magnet from the holder. Attached the magnet to a spoke on the wheel making sure the magnet aligns with the sensor with a clearance of less than .2 inches. Screw the holder back onto the magnet.

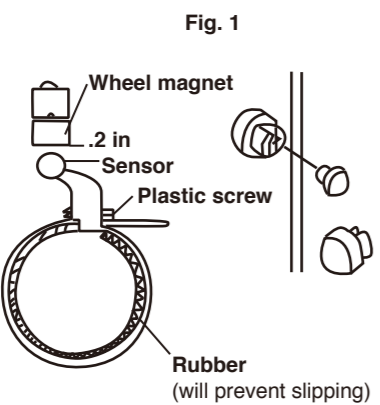


Fig. 1

**Mounting the Counter (Fig. 2)**

Loosen the screw on the mounting shoe and attach to the handlebars. Rubber pieces are also provided to provide a secure fit if the clamp cannot close completely or if it slides on the handlebar. Tighten the screw. The mounting shoe can attach to either the right or the left side of the handlebar depending on the user's preference.

Slide the counter onto the shoe until it snaps firmly into place. Push forward in the opposite direction to remove.

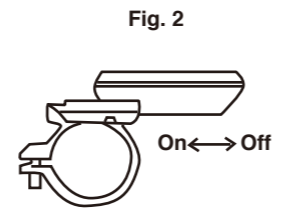


Fig. 2

**Securing the Wires (Fig. 3)**

Route the wire up the front wheel fork, using the provided cable ties to secure. The wire must not hang loosely however it must have enough slack to allow the bike to move freely. Any remaining wire can be wrapped around the front brake cable and to the handlebar. Any excess wire should be looped and secured to the bicycle frame with a cable tie.

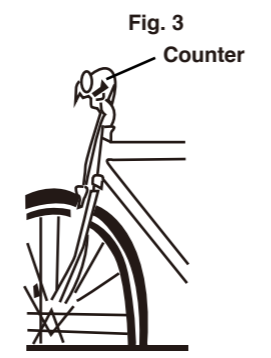


Fig. 3

**Select m/h or km/h display**

Press the LEFT button to select m/h or km/h. Press the RIGHT button to confirm.

**Wheel Size**

After setting the m/h or km/h display, numbers will flash on the screen. Press the LEFT button continually to enter the wheel's circumference. To scroll through the numbers faster, press and hold the LEFT button. Press the RIGHT button to confirm.

The counter reads in centimeters so if you are measuring the wheel's diameter in inches, you must multiply the measurement by 2.54.

Example: 20"D x 2.54 = 50.8cm

To calculate circumference, multiply the wheel's diameter by 3.14. Round up or down to the nearest whole number.

Example: 50.8cmD x 3.14 = 159.51. Round to 160 and enter into the counter.

A quick reference chart is below for common wheel sizes:

Diameter	Circumference (in centimeters)
20"	160
22"	176
24"	192
26"	207
26.5"	211
26.8"	214
27"	216
28"	224

**Odometer**

The counter will automatically default to 0000.0 on the odometer. If you have distance already traveled that you would like to add to the counter, press the LEFT button to change the number and the RIGHT button to move to the next digit. Press the RIGHT button to confirm once completed.

If you are starting out with zero distance traveled, press the RIGHT button continually to confirm the distance as 0000.0

**Recording Cycle Movements**

Press the RIGHT button to enter the main screen and then press the LEFT button until "km/h" or "m/h" start to flicker. The counter will now record Distance (DST), Max Speed (MXS), Average Speed (AVS), Elapsed Time (TM), and Rotation (R).

- NOTES:
- The counter will not record when it is in Odometer (ODO) or Clock modes.
  - The counter will continue to record in DST, MXS, AVS, TM, and R modes.

**Reading the Values**

While you are recording, the screen will automatically set to scan mode ( ) and flash through the different values to display the current stats for those values every 4 seconds. If you would like to check a specific value, press the RIGHT button to scroll to that value.

The screen will remain on that value until you press the RIGHT button to enter scan mode again.

**Auto on/off**

To preserve the batteries, the counter will automatically switch to and remain in Clock mode after 2 minutes of inactivity. To switch back to reading the values press either button once.

**Speedometer**

Current speed is indicated where circled. During the ride a '^' or 'v' will display to indicate that the current speed is higher or lower than the average speed (AVS). The current speed will be indicated in all modes.



**Odometer (ODO)**

The screen will indicate the total distance traveled where circled.

To check the tire circumference entered, press the left button once while in this mode. To clear the tire circumference and total distance, press the LEFT button for 6 seconds and the screen will return to the "Select k/m or m/h" screen. Follow the previous steps to set up again.



**Trip Distance (DST)**

The screen will indicate the current trip distance traveled where circled.

To clear the current trip distance, press the LEFT and RIGHT button at the same time. The computer will clear the records of DST, MXS, AVS, and TM while leaving the odometer intact.



**Maximum Speed (MXS)**

The screen will indicate the maximum speed on the current trip where circled.



**Average Speed (AVS)**

The screen will indicate the average speed on the current trip where circled.



**Trip Time (TM)**

The screen will indicate the amount of time that has passed on the current trip where circled. The counter will record only the time actually spent riding and will not record if the bicycle is stopped.



**Rotation per Minute (R)**

The screen will indicate how many wheel rotations are made on the current trip where circled.



**Clock (24H)**

To set the clock, you must be in the clock mode. Press the LEFT and RIGHT button at the same time and the digits indicating the hour will start to flicker. Press the LEFT button to scroll to the correct hour and then press the RIGHT button. The digits indicating minute will start to flicker. Press the LEFT button to scroll to the correct minute. Press the RIGHT button to confirm and go back to the main screen.



The screen will indicate time where circled.

**Freeze Frame – Checking Stats**

To check the stats at the end of your bike ride, press the LEFT button and the display will lock. The "km/h" or "m/h" will stop flickering and the counter will stop recording.

Press the RIGHT button to scroll through the different values: DST, MXS, AVS, TM, and R.

To erase the memory and start over, press the LEFT and RIGHT button at the same time. The DST, MXS, AVS, and TM values will go back to zero.

**Troubleshooting**

Problem	Solution
No speedometer reading	Improper magnet/sensor alignment Counter is not properly attached to mounting screw
Slow display response	Temperature exceeds operating limits (32° - 131°F)
Dark display	Temperature too hot or display exposed to sun for too long
Display starts to fade	Poor battery contacts or dead battery
No display	Dead battery