

Features	
FUNCTIONS	20
Speedometer (0-99.9 M/hr or KM/hr)	✓
Tripmeter (Up to 999.9 M or KM)	✓
Tripmeter Reset	✓
Odometer (Up to 9999.9 M or KM)	✓
Trip Timer (9:59.59)	✓
Auto Start/Stop	✓
Maximum Speed (Up to 99.9 M or KM)	✓
Digital Clock (12/24 hour selectable)	✓
Average Speed (Up to 99.9 M or KM)	✓
Scan (DTS, MXS, AVS, TM)	✓
Freeze Frame Memory (TM and AVS)	✓
Speed Comparator (+ or -)	✓
Speed Tendency (or)	✓
Odometer Reset	✓
Maintenance Program	✓
Calorie Counter (0.0 to 9999 Calories)	✓
Fat Burned (0.0 to 9999 Grams)	✓
Temperature (-10°C to 50°C)/ 14°F to 122°F)	✓
Miles or Kilometers Selectable	✓
Miles/hr or Kilometers/hr Selectable	✓

Speedometer Sensor & Magnet

Clamp the magnet onto a spoke of the front wheel as shown (Fig. 4). Attach the sensor to the front fork using the two cable ties. Make sure the magnet cycles past the sensor as the wheel turns (Fig. 2). As the magnet passes the sensor, it should come within 5 mm of the sensor, but not touch the sensor (Fig. 3).

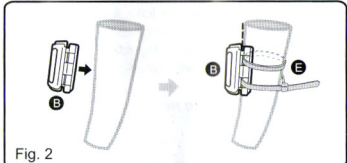
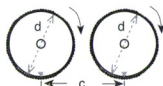


Fig. 3

Fig. 4

Wheel Size Input

To set the wheel size or after replacement of the battery, press and hold both buttons for a few seconds. The unit will switch to Wheel Size Input Mode. Multiply the wheel diameter (d) in millimeters by 3.1416 to determine the wheel factor [C]. To input wheel factor into the computer, press the right button to progress the digit and press the left button to select the digit (hold the right button for fast advance). Press the left button again for mile/kilometer selection. (Note: removing the battery will erase wheel size.)



Distance traveled in millimeters with one wheel revolution

Mile/Kilometer Selection

Press the right button to choose between Mile (M) and Kilometer (KM). Press the left button to make the selection. After this selection, the computer will switch to speedometer mode and is ready for use.

5th Screen – Average Speed (AVS)

Speedometer: Displayed on top line.
Speed Comparator: in same position as previous screen.
Speed Tendency: in same position as previous screen.
Average Speed: Average speed is displayed on the bottom line. AVS is the average speed for the current trip. AVS resets when **Tripmeter** is reset.
Press right button to move to next screen.



6th Screen – Trip Timer (TM)

Speedometer: Displayed on top line.
Speed Comparator: in same position as previous screen.
Speed Tendency: in same position as previous screen.
Trip Timer: Trip timer is displayed on the bottom line. It is activated with wheel movement and records only the actual time spent riding.
Press right button to move to next screen.



Quick Set-up

- Press either button.
- Set tire size:
 - Press right button. Flashing number will change.
 - Press left button to select number and move to next digit.
- Miles/Kilometer per Hour
 - Press right button to switch between kilometers and miles.
 - Press left button to select.
- Age
 - Press right button. Flashing number will change.
 - Press left button to select number and move to next digit.
- Weight
 - Press right button. Flashing number will change.
 - Press left button to select number and move to next digit.
- Maintenance
 - Press right button to choose between 200, 400, 600 or 800 miles.
 - Press left button to select.
 - C1 will flash. Press either button.
- Clock
 - Press left button and hold for a few seconds. 12 will flash.
 - Press right button to change to 24 hour clock, if desired.
 - Press left button to select 12 or 24 hour clock.
 - Hours will flash. Right button will progress numbers. Left button will select number and move to minutes. Repeat selection of minutes in same manner as hour was selected.
- After computer is set up, pressing the right button will move through the functions.

Mounting Bracket

Using zip ties, attach the mounting bracket to the right side of the handlebar (Fig. 5). If necessary, to achieve a snug fit, place a rubber shim between the bracket and the handlebar (Fig. 6). To attach the computer to the mounting bracket: Slide the unit onto the bracket until it snaps firmly into position (Fig. 7). To remove the computer from the mounting bracket: Wrap your forefinger around the front of the mounting bracket. Press the release button. Push the computer forward with your thumb.

Fig. 5

Fig. 6

Fig. 7

1st Screen – Speedometer mode

Speedometer: Displayed on top line
Speed Comparator: A "+" or "-" sign appears to the right of the speed. A "+" indicates that you are traveling faster than your average speed (AVS). A "-" indicates that you are traveling slower than your average speed.
Speed Tendency: A cyclist symbol appears to the left of the speed display. The wheel turns forward to indicate acceleration. The wheel turns backward to indicate deceleration.
Clock: A 12- or 24-hour clock is displayed on the bottom line. To switch between the two formats, press left button and hold for a few seconds until the bottom line flashes either 12 or 24 (depending on current format). Press right button to change to 12- or 24-hour format. Press the left button to select. Next the hours will flash. Press the right button to progress numbers. Press the left button to select number. Next the minutes will flash. Press the right button to progress numbers. Press the left button to select number.
Press right button to move to the next screen.



2nd Screen – Odometer mode (ODO)

Speedometer: Displayed on top line.
Speed Comparator: in same position as previous screen.
Speed Tendency: in same position as previous screen.
Odometer: Total distance traveled is displayed on bottom line. To reset ODO to zero, press and hold both buttons for a few seconds until the screen changes or remove the battery. Both of these procedures will reset all functions.
Press right button to move to next screen.



7th Screen – Temperature

Speedometer: Displayed on top line.
Speed Comparator: in same position as previous screen.
Speed Tendency: in same position as previous screen.
Temperature: is displayed on the bottom line. While in temperature mode, press and hold left button for a few seconds until °C appears. Press right button to switch between °C (Centigrade) and °F (Fahrenheit). Press left button to select.
Press right button to move to next screen.



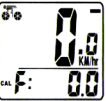
8th Screen – Calorie (CAL)

Speedometer: Displayed on top line.
Speed Comparator: in same position as previous screen.
Speed Tendency: in same position as previous screen.
Calories Burned: Calories burned is displayed on the bottom line.
Press right button to move to next screen.



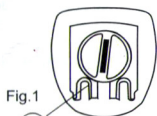
9th Screen – Fat Burning (CALF)

Speedometer: Displayed on top line.
Speed Comparator: in same position as previous screen.
Speed Tendency: in same position as previous screen.
Fat Burning: Fat Burned is displayed on the bottom line.
Press right button to move to Scan mode.



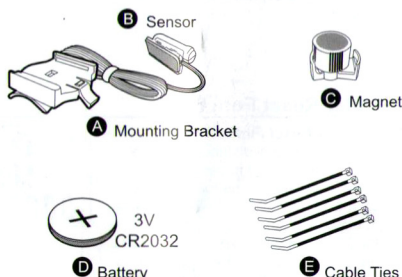
Battery Installation

Remove the battery cover from the bottom of the computer using a coin. Install the battery (3V/ CR2032) with the positive (+) pole facing the battery cover. Replace the cover as shown (Fig. 1).



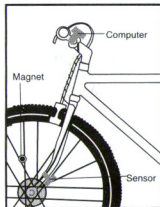
Computer Battery (3V / CR2032)

Accessories



Sensor wiring

Route the sensor wire up the front fork, using cable ties to secure it at the bottom and top. Wire must not hang loosely, but must have enough slack to allow the front wheel and handlebars to turn without putting too much tension on the sensor wire. Too much tension could loosen the wire from the computer and interrupt input to the computer. However, be certain that there is not too much slack and that the wire does not interfere with free movement or spinning of the front wheel. Route the remaining wire around the front brake cable and the handlebar. Excess wire should be carefully looped and secured to the stem with cable ties.



Auto Start / Stop

To preserve batteries, the cycle computer will automatically switch off if the unit is left unused for over 5 minutes. Display will reappear with a press on either button or input from the sensor.

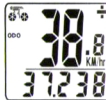
3rd Screen – Tripmeter (DST)

Speedometer: Displayed on top line.
Speed Comparator: in same position as previous screen.
Speed Tendency: in same position as previous screen.
Tripmeter: Total trip distance is displayed on bottom line. Tripmeter is automatically activated with movement of wheel. Reset tripmeter to zero by pressing the left button for a few seconds. **Tripmeter**, **Trip Timer**, and **Average Speed** will all be reset at this time.
Press right button to move to next screen.



4th Screen – Maximum Speed (MXS)

Speedometer: Displayed on top line.
Speed Comparator: in same position as previous screen.
Speed Tendency: in same position as previous screen.
Maximum Speed: Maximum speed is displayed on the bottom line. Maximum speed is stored in memory and updates only when a higher speed is reached. To reset MXS, press and hold the left button in the MXS mode.
Press right button to move to next screen.



Scan

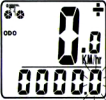
In **Scan** mode, the screen cycles through **DST**, **MXS**, **AVS**, and **TM** modes. Each screen is displayed for about 4 seconds.
Press right button to return to Speedometer mode.

Freeze Frame Memory

Press the left button, **Freeze Frame Memory** can lock the display at the end of a ride segment. **TM**, **DST**, and **AVS**, which will be flashing, can be read at a later time by pressing the right key. To reset the memory, press the left button; the display will stop flashing. This is particularly useful when crossing the finish line of a time trial. Note: Computer must be in either **ODO**, **DST**, **MXS**, **AVS**, or **TM** mode for this function to work.

Odometer Reset Function

The **Odometer Reset Function** allows you to reenter your total distance after the odometer has been reset to zero. In the **ODO** mode, press the left button for a few seconds until the last digit flashes. Press the right button to adjust the number. Press the left button to select the number. Then the next number will start to flash. Repeat process until all digits are reset to desired number. After selection of last digit, computer will return to **ODO** mode.



Troubleshooting

Malfunction	Remedy
No speedometer reading	Check alignment of magnet & sensor.
	Check distance between magnet & sensor.
Slow display response	Verify temperature is within operating limits (32°-130° F -- 0°-55 ° C)
Black Display	Replace battery
	Reseat battery
Display readout fades	Replace battery
	Reseat battery
No trip distance readout	Check alignment of magnet & sensor.
	Check distance between magnet & sensor.
Display shows irregular figures	Reseat battery
	Replace battery
	Reseat battery
	Replace battery

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DOBEL



20 FUNCTIONS
 INSTRUCTION MANUAL

