



CYCLING COMPUTER with CADENCE

VETTA®

C20 FEATURES



Dual Readout
LCD Screen

Speedometer
(Accuracy within
0.5MPH/KPH)

Speed
Comparator

Digital Clock

Cadence
(40 to 240rpm)

Stopwatch
(9 hours, 59
minute,
59 second)

Average Speed
M/hr or KM/hr
selectable

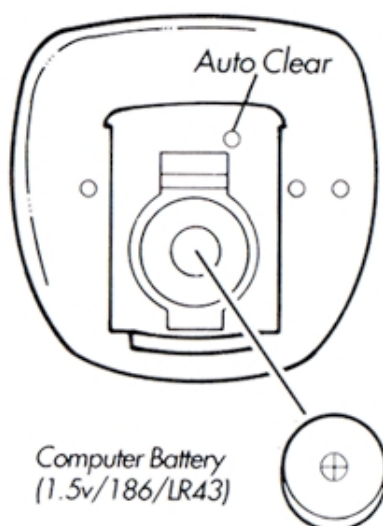
Odometer
(99999 mile)

Day Tripmeter
(Up to 999.99
miles)

Auto Start/Stop

Fits all popular
bicycles

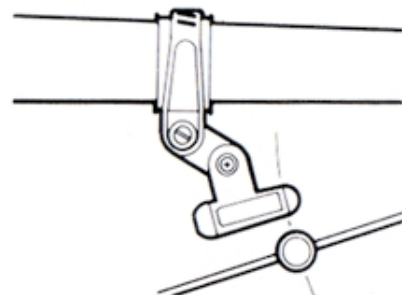
1. Battery Installation



Remove the battery cover from the bottom of the computer using a flat blade screwdriver. Install the battery with the positive(+) pole facing the battery cover and replace the cover.

Should the LCD show irregular figures, press the Auto Clear button on the bottom of the unit once. This will clear and restart the computer's microprocessor.

2. Speedometer Sensor



The speedometer sensor is marked SPD. Attach the mounting strap to the sensor, then mount on the left chain stay using a thin rubber shim. If chainstay is less than 20mm in diameter, use 4-6mm shim. **Fig. 1** Position the sensor and magnet as shown, making sure that the center of the magnet intersects the alignment mark on the sensor with 1/32"(1mm) clearance. **Fig. 2**

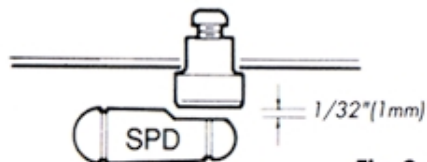


Fig. 2

Attach speed magnet to left side rear wheel spoke with the screw provided. Overtightening the screw can strip the threads so use caution.

3. Cadence Sensor

4. Sensor Wiring

5. Mounting Shoe

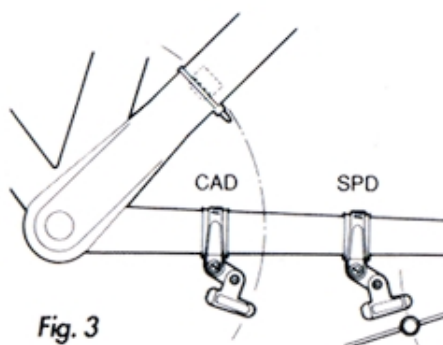


Fig. 3

The cadence sensor is marked CAD. Attach the mounting strap to the sensor, then mount on the left chain stay using a thin rubber shim. Trim excess strap after securing to bicycle frame.

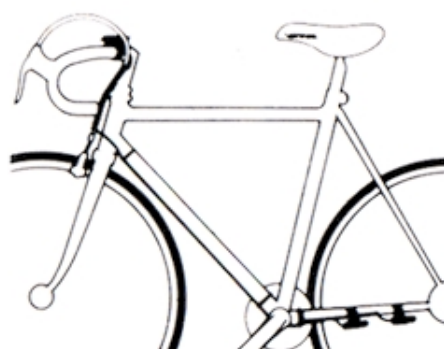
Fig. 3

Attach the cadence magnet to the left crank arm, making sure that the arc of the magnet intersects the alignment mark. Clearance between the magnet and the sensor should again be 1 mm. Secure the magnet with a tie wrap. Fig. 4

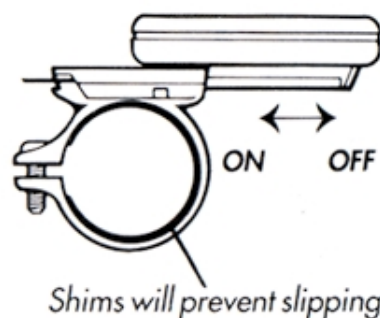


Fig. 4

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Route the wire under the bottom bracket and along the down tube to the head tube, then up the front brake cable. Wire must not hang loosely, but leave enough slack to allow for steering. Secure both wires with the tie wrap provided. Sensor wire must not be wrapped together with other wires (light, etc.). This will cause erratic readings.



Attach the mounting shoe to the handlebar using the bracket screw provided. Rubber shims are also included to provide a secure fit. If the clamp closes completely, or the bracket slips on the handlebar, shims will be necessary.

Bracket can be attached to either left or right hand side of the handlebar. Attaching the mounting shoe to the side of the handlebar closest to the brake cable is preferable.

NOTE: Vetta C-10 and C-20 computers are interchangeable and will fit and function on each others mounting shoes.

6. Computer

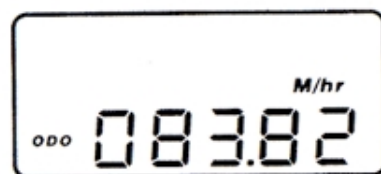


Fig. 5

The Vetta C20 computer attaches to the mounting shoe by sliding the unit until it snaps firmly into position. Fig. 5 To check for proper speed function and sensor alignment,

OPERATION

1. MPH/KPH Selection



To select Miles or Kilometers per hour press the RIGHT key until the MXS/ODO screen appears. Next, press BOTH keys simultaneously for over two seconds. Use the RIGHT key to select M/hr (miles per hour) or KM/hr (kilometers per hour). Set with the LEFT key, which will activate the wheel circumference input.

Press LEFT key to select digit to set, indicated by flashing. The RIGHT key will adjust the digit to the desired number (hold for fast advance). When input is complete, push the LEFT key to enter.

For convenience you can refer to this chart of typical wheel size circumferences.

Size	Inches	mm
20"	62.83	1596
22"	69.25	1759
24"	75.43	1916
26"	81.61	2073

spin the front wheel with computer in speed mode.

Important: To remove computer from mounting shoe, wrap forefinger around the front of the mounting shoe and push the computer forward with your thumb.

Wheel Size Input

For accurate speedometer readings you must input the wheel circumference of your bicycle. If you selected miles per hour, enter the circumference in inches. If you use kilometers per hour, enter the circumference in millimeters.

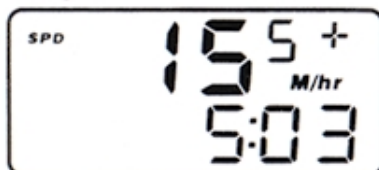
(Note: Removing battery will erase Wheel Size Input)

(W/tire)

700x25c	83.62	2124
27x1"	84.09	2136
27x1 1/4"	84.84	2155
700x38	85.43	2170

Press the RIGHT key to advance to Speedometer/Clock.

2. Speedometer/Clock



Speed is displayed, indicated by SPD. Instantaneous speed has a display range of 3.5 to 99.5 M/hr (5.0 to 99.5 Km/hr) and an accuracy of + or - 0.25 M/hr (Km/hr).

Clock

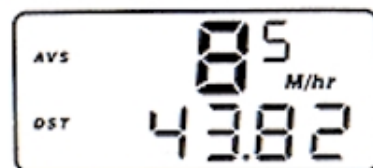
A 12 hour digital clock appears indicated by flashing second colons. To adjust, press LEFT key for 2 seconds. Adjust the flashing hour digits by RIGHT key (hold for fast advance) and set digits by LEFT key. Use the RIGHT key to adjust minute digits and LEFT key to set.

Speed Comparator

A + or - sign appears to the right of the speed. "+" indicates you are travelling a faster than your average speed (AVS).

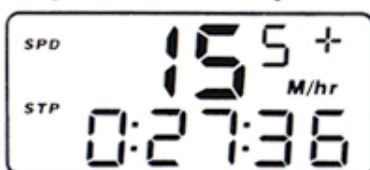
A "-" indicates you are going slower than your average speed.

4. Average Speed/Tripmeter



Average speed from 0 to 99.5mph in 0.5mph increments is indicated by AVS and appears in the top readout. Average speed is calculated automatically, using an internal

3. Speedometer/Stopwatch



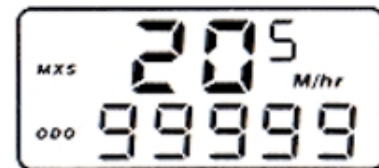
The LEFT key stops and starts the Stopwatch, which is indicated by STP. The Stopwatch will time up to 9 hours, 59 minutes, 59 seconds and then recycle. To zero the Stopwatch, press the LEFT key for over 2 seconds. The Stopwatch works independently without affecting any other functions. Press RIGHT key to advance to Average Speed/Tripmeter.

Speedometer

Speed is displayed on the top readout.

NOTE: Pressing both keys at the same time for 5 seconds in any mode will reset all functions except clock, odometer and wheel size setting.

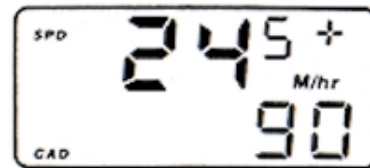
5. Maximum Speed/Odometer



High speed, up to 99.5mph, reached during a ride is indicated by MXS. To reset MXS press LEFT key for 2 seconds.

Odometer

6. Cadence Option



Pedal RPM from 40 to 240 is displayed on the lower readout and is indicated as CAD.

Speedometer

Speed is displayed on the top readout.

stopwatch to divide the riding time by the distance travelled.

Tripmeter

Trip distance is indicated by DST. Tripmeter is activated automatically with speedometer input. To reset DST to zero press the LEFT button for 2 seconds. This will also reset AVS. Press the RIGHT key to advance to Maximum Speed/Odometer. Note: DST reading may skip briefly while processing other data. Accuracy is not affected.

Total distance travelled up to 99999 is indicated by ODO. To reset Odometer to zero, remove the battery. ODO displays 0 initially (i.e. only whole mile or Km) with Km or M symbol.

Auto Start/Stop

To preserve batteries, the C20 automatically switches off if unused for over 5 to 6 minutes. Display will reappear with the touch of either key or speed input.

readout.

To activate cadence feature press the LEFT key in the ODO mode until the flashing CAD appears. Press RIGHT key and CAD will stop flashing. Press LEFT key to set. To remove the cadence feature press the LEFT key in the ODO mode until CAD appears. Press the RIGHT key and CAD will flash on and off. Press the LEFT key and cadence will be eliminated.

REPLACEMENT PARTS

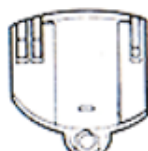


Cadence Magnet



Wheel Magnet

Computer Battery
(1.5v/186/LR43)



Mounting Shoe
w/sensors



Sensor Strap

IMPORTANT Troubleshooting

No/erratic speedometer or
cadence reading
Improper magnet/sensor alignment

Display readout fades
Low or dead battery

No trip distance reading
**Check correct sensor/magnet
alignment
Check battery and correct installation**

Slow display response
**Temperature outside of operating
limits
(0-55 degrees C)**

Black display
**Temperature too hot, or display
exposed to direct sunlight too long**

Display shows irregular figures
**Press Auto Clear button at bottom of
unit to clear and restart computer**

MXS displays 99.50, display freezes
**Press Auto Clear button; re-align
sensor and magnet**

NETTN®

Made and Printed in Hong Kong

