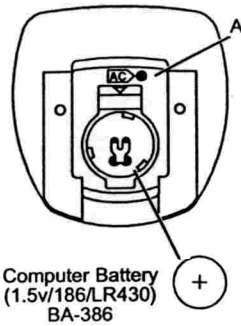
STALLATION PROCEDURE

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 underside of the unit once. This will clear and rerstart the computer's microprocessor.

2. SPEED SENSOR

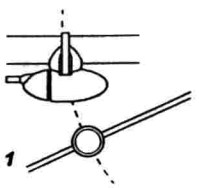


Fig. 1

The speed sensor is attached to the longer wire. Feed a zip-tie through the slot on the sensor, then mount it to 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**

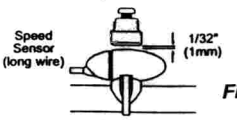


Fig. 2

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

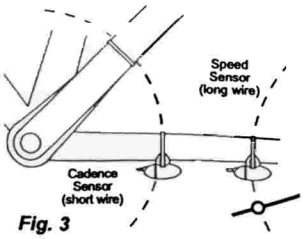


Fig. 3

The cadence sensor is on the shorter wire. Feed a zip-tie through the slot on the sensor, then mount it to 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 on the sensor. Clearance between the magnet and the sensor should again be 1mm. Secure the magnet with a zip-tie. **Fig. 4**

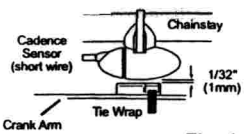
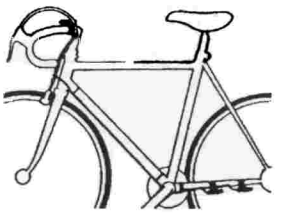


Fig. 4

4. SENSOR WIRING



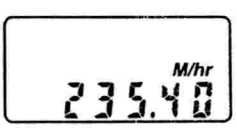
Route the wire under the bottom bracket and along the down tube, then up the front brake cable. Wire must not hang loosely, but must maintain sufficient slack to allow for steering. Secure both wires with the zip-ties provided. Sensor wire must not be wrapped together with other wires (light, etc.), as this may cause erratic readings.

5. MOUNTING BRACKE

Attach the mounting bracke to the handlebar using the bracket screw provided. Rubber shims are also incl ed to provide a secure fit. I the bracket clamp closes c pletely, or the bracket slips the handlebar, shims will b necessary. The mounting bracket can be attached to left or right of the stem. A mounting position near the front brake cable will make cable routing easier.

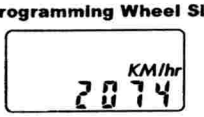
OPERATION

1. MPH/KPH Selection



Advance to the MXS/ODO screen using the right key. Next, press and hold BOTH keys simultaneously until a flashing "M/hr" or " KM/hr" appears. Press the RIGHT key to select M/hr (miles) or KM/hr (kilometers). Press the LEFT key to enter your selection and advance to the wheel size input screen.

2. Programming Wheel Size

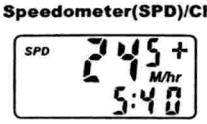


STEP 1: Once you select miles (M/hr) or kilometers (KM/hr) and press the LEFT key, the computer will automatically advance to the wheel size programming screen. **STEP 2:** The factory default setting is 2124 (KM/hr) or 83.62(M/hr). The left hand digit will flash. Use the RIGHT key to adjust the value. **STEP 3:** Press the LEFT key to set the value and advance to the next flashing digit. **STEP 4:** Repeat this sequence until all digits have been set to the appropriate value. **STEP 5:** Press the LEFT key one final time to enter the wheel size setting into memory, and return to the MXS/ODO display screen.

Refer to the chart below for typical wheel size circumferences.

Size	M/hr	KM/hr
20"	62.83	1596
22"	69.25	1759
24"	75.43	1916
26"	81.61	2073
700x25c	83.62	2124
27x1"	84.09	2136
27x1 1/4"	84.84	2155
700x38	85.43	2170

3. Speedometer(SPD)/Clock



Speedometer (SPD)
Displays instantaneous speed *(M/hr or KM/hr)*. Accurate to 0.5m/h or KM/h

Speed Comparison
(+ or -) Compares current speed to average speed. As you ride, a (+) or (-) will appear in the upper right hand corner of the display. This will indicate whether your current speed is faster (+) or slower (-) than your average speed. This function is automatic, requires no programming, and cannot be disabled.

Clock
Displays time of day in a 12 hour format.

Clock Setting
STEP 1: With the computer in the SPD/Clock display screen, press and hold the LEFT key for 3 seconds.

STEP 2: The screen will clear and the hours will flash. Advance the hours using the RIGHT key. Hold this key to quickly advance the hours. Press the LEFT key to set the value and advance to the minutes setting. **STEP 3:** Advance the minutes using the RIGHT key. Hold this key to quickly advance the minutes. Press the LEFT key to set the value and return to the SPD/Clock display screen.

4. Speedometer(SPD)/ Stopwatch(STP)

Stopwatch (STP)
Press the LEFT key to start and stop the Stopwatch. While the Stopwatch is running, 'M/hr' or 'KM/hr' will flash in all display screens. The Stopwatch will record up to 9:59:59 before resetting to 0 and starting again.
To reset STP, press and hold the LEFT key for 2 seconds.

5. Average Speed(AVS)/ Tripmeter(DST)

Average speed (AVS)
Displays average speed in increments of 0.5 M/hr or KM/hr calculated using your true ride time and trip distance. To reset AVS, press and hold the LEFT key for 2 seconds. Note: This will also reset DST.

Tripmeter (DST)
Displays distance traveled during current ride up to 999 mi. or km. To reset DST, pre and hold the LEFT key for 2 seconds. Note: This will also reset AVS.

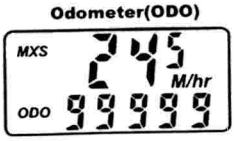
Maximum Speed (MXS)
Displays the fastest speed attained during a ride. To reset MXS, press and hold LEFT key for 2 seconds.

Odometer (ODO)
Displays cumulative ride distance up to 99,999 mi. or km, in whole mi. or km. To reset ODO, remove the battery. Note: This will also reset wheel size setting.

Auto Sleep
To prolong battery life, the 20C will automatically enter "sleep" mode after 5-10 minutes of non-use. The computer will automatically restart itself as soon as it receives input from the front wheel, or as soon as any of the buttons are pushed.

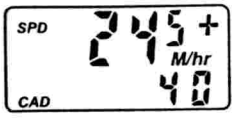
Global Reset
To reset all display screens (except ODO, clock and wheel size), press and hold both buttons for 5 seconds in any display screen.

6. Maximum Speed(MXS)/ Odometer(ODO)



Cadence (CAD)
Displays crank revolutions per minute (RPM) from 40 to 240. To activate the Cadence feature, press and hold the LEFT key in the MXS/ODO screen until a flashing 'CAD' appears. Press the RIGHT key and 'CAD' will stop flashing. Press the LEFT key once more to activate the feature. Now use the RIGHT button to scroll to the SPD/CAD display screen. To deactivate the Cadence feature, press and hold the LEFT key in the MXS/ODO screen until 'CAD' appears. Press the RIGHT key and 'CAD' will flash. Now press the LEFT key to deactivate the feature.

7. Cadence Option



TROUBLESHOO

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

Display readout fades
Low or dead battery

No trip distance reading
Check correct sensor/m alignment
Check battery and core installation

Slow display response
Temperature outside of ating limits(0-55 degree

Black display
Temperature too hot, or play exposed to direct s light too long

Display shows irregular fi
Press Auto Clear butto bottom of unit to clear restart computer

MXS displays 99.50, disp freezes
Press Auto Clear butto re-align sensor and ma