

Sensor

Attach the sensor 3 temporarily, with the adhesive tape, to the inside of the right front fork

E

spoke

Magnet

Attach the magnet 4 to the right side spoke of the front wheel. Adjust the position of the sensor 3 and the magnet 4 so that it meets the conditions A and B in the "Important" column. Fix the sensor 3 with the nylon ties



front fork



NOTE: To utilize previously accumulated Odometer data, refer to the section "Manually Replacing Mileage into Odometer" described in the last section of this manual.

The following set up is required before use:



K

Clock

Fia. 5

1028

1028

of "Hours" and "Minutes

М

= mile

210

30

Ъ

7

numbe

Switching

Increases the

+

ALL CLEAR

Bracket

the spiral tube

with the screw

Note: Allow enough wire clearance in the area

Secure the wire along the fork with the nylon

ties 6, and along the front brake cable with

Apply the bracket rubber pad 5 to the bracket 1, so that the band fits the handlebar. Fix it

(Length of Tire Roll-Out) cm Determine the length of the tire (Length in centimeters) from the Cross Reference Table. Alternately, you can find the most accurate wheel calibration number by rolling the tire on the ground. In this method, properly inflate the tires, sit on the bike and measure the distance of one wheel SET Button length. This distance in centimeters is the most accurate number. (Inches X 2.45 = Centimeters)

1. Find the Wheel Calibration Number

2. Perform the ALL CLEAR OPERA-TION to clear the computer and set the speed scale:

Press the SET Button while pressing the MODE and START/STOP(S) Buttons (ALL CLEAR OP-ERATION: Fig. 2). The entire memory of the computer will be erased, and the complete screen will light up and then all fade away, leaving a flashing "K" on the screen. A press on the MODE Button will display "K" and "M" alternately (Fig. 3). Select your desired speed scale. Then press the START/STOP(S) Button to set the scale. The display moves to the next screen.

3. Set the Wheel Circumference.

The number "210" (typical wheel circumference for 700x23C tires) will be displayed (Fig. 4).

Input the number from step 1 above. Press the MODE Button to increase the number. Press the START/STOP(S) Button to decrease it. You can fast forward the numbers by holding either buttons down. Set the number by pressing the SET Button Your computer is now set up for riding.

Cross Reference Table L(cm 2 x1.75 4 x 1.50 4 x 1.75 102 106 119 16 x 1.50 x 1.75 x 1.50 x 1.75 0 x 1.7 x 1 x 1 2 x 1-1/2 x 3/4Tubular x 1-1/8 4 x 1-1/4 192 26 x 7/8 <u>26 x 1(65)</u> 26 x 1.25 x 1-1/8 x 1-3/8 x 1 <u>x 1-1/2</u> 6 <u>x 1</u>.40 <u>20 x 1.75</u> <u>26 x 1.95</u> <u>26 x 2.00</u> 202 <u>x 2</u> x 3.00 x 1-1/8 x 1-1/4 <u>50 x 38A</u> 50 x 38B 212 0 x 180 0 x 190 700 x 23C 210 14 17) x 28 16 00C Tubular

ОК

70,

Setting the CLOCK

For setting the CLOCK, the TIME function must be turned off and the speed scale symbol (either M for Miles or K for Kilometers) must not be flashing (Fig. 5). The CLOCK is set to either 24-HOUR or 12-HOUR depending on the SPEED SCALE selected. In K (kilometers), a 24-HOUR CLOCK is selected, while in M (miles) a 12-HOUR CLOCK is selected

- 1. In the TIME Function(Tm), hold down the MODE Button, the an mark will appear. This is an indication that you are in the CLOCK function.
- 2. Press the SET Button. The "HOURS" will flash. Use the MODE Button to change/advance the number, and the ST./STOP(S) Button to switch between "HOURS" and "MINUTES".

3. Press the SET Button to set the CLOCK.

OPERATING THE COMPUTER



Fig. 6

Fig. 7

Changing the Data Displayed

Pressing the MODE Button changes the data displayed on the screen as shown in Fig. 6. A single press of the button will switch to the next main mode, and a holding down of the button for 2 seconds or longer will switch to the sub-mode. To get back to the main mode from the sub-mode, just press the MODE button.

Starting/Stopping the Recording



MODE

Pressing the ST./STOP(S) Button (Fig. 8) will start the recording of TIME,

AVERAGE SPEED and DISTANCE 1 or 2, and a subsequent press will stop the recording. During the recording, the speed scale (K or M) will flicker



and Average Speed

Fig. 9

Time

0.1234

Auto Mode (Automatic Recording) - AT

You can set the computer to record TIME, AVERAGE SPEED and DIS-TANCE 1 or 2 automatically. This is called the AUTO MODE. The computer's sensor detects the motion of your wheel to start and stop recording automatically. (Once the AUTO MODE is set, you cannot start or stop the recording with the ST./STOP(S) Button.)

In Trip Distance 1/ 2, Elapsed Time Activating AUTO MODE: (Fig. 9)

In the DISTANCE, TIME or AVERAGE SPEED function, press the SET button. The AT symbol will appear on the screen to identify the AUTO MODE. You can take the computer out of the AUTO MODE in the same way

Moving TIME, AVERAGE SPEED and MAX SPEED to Upper Display

You can move TIME, AVERAGE SPEED or MAX SPEED to the upper display, giving you larger font and an easy-to-see screen(Fig. 10). When the computer is set in the AUTO MODE (AT), the switching is possible by displaying the mode you would like and pressing the ST./STOP(S) Button. You can go back to the original display in the same way.



When the computer is not set in the AUTO MODE (AT), you can switch the display by holding down the ST./ STOP(S) Button for 2 seconds. 2 sec

Resetting the DISTANCE 1, TIME, MAX SPEED and AVER-AGE SPEED Functions (RESE)

In any function other than Odo or Dst2, simultaneously press the MODE Button and the ST./STOP(S) Button for one (1) second. DISTANCE 1, TIME, MAX SPEED and AVERAGE SPEED functions will reset to zero (Fig. 11). DISTANCE 2 will not reset.

Resetting the DISTANCE 2 RESET

In Dst2 function, a simultaneous hold down of the MODE and ST./STOP(S) Buttons for 1 second will reset the data of DISTANCE 2 only



Odometer

Fig. 13

1234

210

>6

*

ack

Wheel Setting A and B, and Changing the Wheel Setting

- The computer has two wheel settings, allowing you to use the unit between two bikes with different size tires. You can tell which WHEEL SETTING you are in by the Wheel Selection Symbol on the screen (Fig. 12)
- Wheel Setting "B" has been specifically programmed for low speed sensitivity, and we recommend the use of this setting with your mountain bike.
- · To select between Wheel Setting "A" or "B", hold down the SET Button when you are in any function other than the ODOMETER (Odo) function (Fig. 12)

To check the number for the current wheel setting, simultaneously press the ST./STOP(S) Button and the MODE Button when you are in the ODOMETER (Odo) function. While in this status, if you hold down the button for 3 seconds or longer, you can switch between the Wheel Setting "A" and "B" without using the SET Button. Changing the Wheel Setting Number (Fig.13)

- 1. In the ODOMETER function, press the SET Button on the back Increases the number of the computer. The number for the Wheel Setting will flash on the screen.
 - 2. Pressing the MODE Button will increase the number, while pressing the ST./STOP(S) Button will decrease it.
- Decreases When the Wheel Setting you would like is displayed, press the 3. the number SET Button on the back of the computer.

Power Saving Function

When the computer does not receive a signal for approximately 60 to 70 minutes, the computer goes into the power saving mode, and only the CLOCK is displayed. Press either the MODE Button or ST./STOP(S) Button to wake-up the computer.

Maintenance

- When the computer or the contact of bracket gets wet, dry it off with a cloth. Rusting will cause the speed detection error.
- When dirt or small grains of sand get jammed between push buttons and the main unit, push buttons may not be smoothly operated. When this has occurred, just wash them away with water

Trouble-Shooting

No display

Has the battery in the main unit run out?

Replace it with a new one, and do all clear operation.

Incorrect data appears on the screen.

Perform the "ALL CLEAR OPERATION". (If possible, take note of the Odo data before performing the "ALL CLEAR OPERATION", and enter it again later

Current speed does not appear. (When this has occurred, short-circuit the contact of the main unit several times by using a small metal piece. If the speed display appears, the computer is working fine. The problem may be attributed to the bracket or the sensor.) Is the wire damaged? A damaged wire might not be visible.

Replace the bracket sensor with a new one.

Is the distance between the sensor and the magnet too great?

Re-adjust the position of the sensor and the magnet. (Clearance: approx. 5 mm) Is there anything sticking on the contact of the main unit or of the bracket? Clean the contact with a soft cloth.

Replacing the Battery



Fig. . 14



• Insert a new lithium battery (CR2032) with the (+) pole facing up (Fig. 14)

Perform the ALL CLEAR OPERATION after replacing the battery, and perform necessary setting

ALL CLEAR OPERATION



Press the SET Button with something like a pen while pressing the MODE and ST./STOP(S) Buttons (fig.15). The entire memory (Odo data, speed scale, wheel setting, and clock time) of the computer will be erased, and the computer is in the distance scale selection mode. Perform this operation when the battery is replaced or in the case of unusual display caused by electrostatics, etc.

Manually Replacing Mileage (Odo) into Odometer Although the Odo data returns to zero when the ALL CLEAR OPERA-



Odo data you have recorded so far, by manually entering the previous Odo data. (Be sure to take note of the data before replacing the battery.) 1. After performing the ALL CLEAR OPERATION, select the speed



*

scale by pressing the MODE Button. Then, hold down the MODE Button without pressing the SET Button (Fig. 16).

TION is performed to replace the battery, you can continue to retain the

2. The Odo and 0000.0 will be displayed, with the flashing digit of 0.1. Enter numbers by pressing the MODE Button, and move digits by pressing the ST./STOP(S) Button.

For the Odo data, you can enter up to the 10,000th digit. Display the numbers you noted on the screen, and press the SET Button on the back of the computer. Then, you will be in the Wheel Setting function.

3. Set the Wheel Setting in accordance with the description in the section "Setting Up the Computer 3".

Specifications

Moves digits.

Fig. 16

Power Supply	Lithium Battery (CR2032) x 1 Battery Life : Approx. 3 years
Controller	4-bit 1-chip Microcomputer (Crystal Controlled Oscillator)
Display	Liquid Crystal Display
Sensor	No Contact Magnetic Sensor
ength of Wire	70cm

Applicable Wheel Circumference 100cm - 300cm

LIMITED WARRANTY

2-Year Warranty for Main Unit Only

(Accessories/Attachments and Battery Consumption excluded) If trouble occurs during normal use, the part of the Main Unit will be repaired or replaced free of charge. The service must be performed by Cat Eye Co., Ltd. To return the product, pack it carefully and remember to enclose the warranty certificate with instruction for repair. Please write or type your name and address clearly on the warranty certificate. Insurance, handling and transportation charges to our service shall be borne by person desiring service







Fig. 11