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TREK.

AMERICAN BICYCLE TECHNOLOGY

Sensor Cycling Computer

Owners Manual

TREK OWNERS MAUAL :
Congratulations and thank you for purchasing the Trek Sensor Bicycling Computer! The New Trek Sensor represents the latest in bicycle computer technology, concepts with features that can greatly enhance the riding experience of any cyclist, whether they are a recreational rider or a top notch racer. The Trek Sensor may actually change the way you ride your bicycle!
Please read this instruction manual carefully and save this manual for future reference.

Precautions
Remember to watch the road while riding. Watching your bicycle computer makes it difficult to see upcoming obstacles. Awareness of potential road, trial, or traffic problems should be your main concern.

⚠ WARNING

Never place fingers near the spokes of a rotating wheel or other moving parts which could cause injury.

Watch where you are going when riding your bicycle. Inattention may cause a loss of control resulting in personal injury.



COMPUTER FUNCTIONS

Speedometer Display (SPD)
Current riding speed is indicated on the top line of the display with the SPD icon. Instantaneous speed has a display range of 2.5 – 99.5 M/h (4 – 99.5 Km/h).

Stopwatch (STP) The Stopwatch is displayed on the lower line with the **STP** icon. The **STP** stopwatch is automatically activated by wheel movement. It cannot be manually turned on or off, and records only the time spend actually riding. To clear stored information and get ready for your next ride, enter **SPD/STP** display mode and press both keys for over 2 seconds. This will clear all resetable functions **STP, DST, AVS & MXS).**

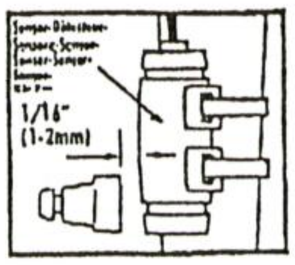
Speed Comparison Display
When riding, a ▲ or ▼ icon will appear to the right of the current Speed display. A + icon indicates that your current speed is faster than your recorded average speed. A – icon means you are traveling slower than your recorded average speed.

Trip Distance (DST)
Trip Distance is displayed on the lower line, indicated by the **DST** icon. Trip distance is tied to the **STP** stopwatch, and records automatically when riding. Trip Distance records up to 999.9 miles (or Kilometers), with a resolution of 0.1 miles/kilometers.

Average Speed (AVS)
Average Speed is displayed in 0.1 mi/Km increments on the upper line, indicated by the **AVS** icon. **AVS** is calculated with the Auto Timer Stopwatch and is the average speed only for time spent actually riding.

Odometer (ODO)
The cumulative distance traveled for all rides is displayed on the lower line, indicated by the **ODO** icon. Total Odometer can be cleared to 0 by pressing the All Clear button on the bottom of the computer or by removing and re-installing the battery.





Maximum Speed (MXS)
The Maximum Speed reached during a ride is displayed in 0.1 mi/Km increments on the top line, with the **MXS** icon. Maximum Speed is stored in memory and is updated each time a new, higher speed is reached.

CLOCK (CLK)
The 12 hour clock is displayed on the lower line, indicated by the **CLK** icon.

STP "Lap Timer" Display
A unique **STP** "Lap Timer" display allows you to lock the display at the end of a ride segment and view the **STP , DST, AVS** and **MXS** at a later time. This is especially useful at the end of a race, allowing you time to cool down without adding time to your Stopwatch.

As you cross the finish line, press the Adjust Key for over 1 second to freeze information on the display. You may continue to ride, viewing the information locked on the flashing locked display. The computer will continue to record information and store it in memory. Press the Adjust Key to update the current display information.

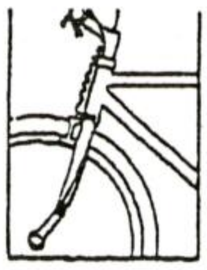
RESETTING THE COMPUTER
In SPD/STP mode, press both keys for over two seconds to clear **STP, DST, AVS** and **MXS** display.

SLEEP MODE
To conserve battery power, the computer will enter the 'Sleep' mode after 5 minutes of no speed input, blanking the display. Press any key to enter normal operating modes.

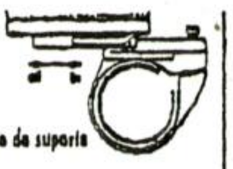
(Note: Unit will not enter sleep mode in setting function mode.)

INSTALLATION
Sensor and Wheel Magnet

1. Position the sensor unit to the inside of either the right of left fork blade anywhere from 3-6 inches up from the fork blade tip. Attach the sensor to the fork blade with the quick ties but do not tighten the ties completely until final adjustment is complete.



Shims will prevent slipping
Les cales empêchent tout glissement
Gli spessori eviteranno lo slittamento
Gummiunterlagen verhindern Verrutschen
Os anéis de borracha impedem o deslizamento do suporte
Los suplementos impedirán que resbale
De vulplaatjes voorkomen verschuiven van de staun





2. Attach the wheel magnet to a spoke, aligning the magnet with the sensor so it faces and intersects the bottom polished line on the sensor. The magnet should have 1-2 mm clearance from the sensor. If the sensor and magnet are too close or touching, rotate the sensor unit toward the back of the fork blade until adequate clearance is achieved. Carefully tighten the quick ties making sure you maintain the proper space between the magnet and the sensor. Trim the excess quick tie strap using a scissors or fingernail clipper. Tighten the magnet screw, but be careful not to over tighten as this can damage the fitting.

Sensor Wiring and Bracket

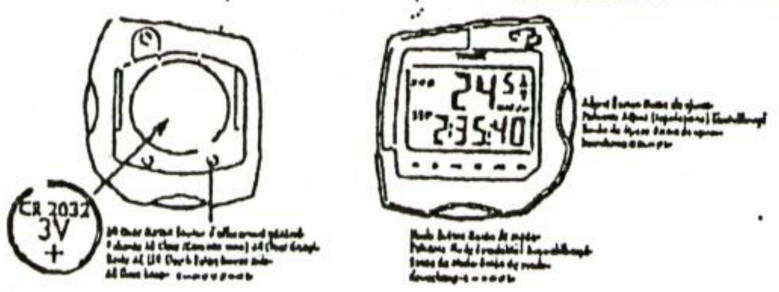
1. Route the sensor wire up the back of the fork blade or wind the wire around the blade, making sure that the wire is not loose and that you leave enough wire to reach the handlebar. Secure the wire to the fork blade immediately above the sensor and at the top of the fork blade, using the adhesive strips that are provided or electrical tape.

2. Wind the wire upward around the front brake cable until the wire is adjacent to the handlebar, allowing enough slack for free movement of the steering assembly cables.

3. Attach the bracket to the handlebar on either side of the stem. The bracket goes onto the handlebar with the wire toward the rider side of the bar. Use the appropriate rubber shim between the bracket and handlebar to provide a secure fit.

Attaching the Computer to the Bracket

The Trek Sensor Computer attaches to the mounting bracket by sliding the unit onto the bracket from the back until it snaps firmly into position. To remove the computer from the bracket, place your thumb against the back of the mounting bracket and pull the computer toward you with your index finger.



COMPUTER SET UP
Battery Installation

1. Remove the battery cover from the back side of the computer using a narrow flat blade screwdriver.

2. Install the battery so that the positive, "+" side of the battery is visible, and replace the battery cover.

CAUTION: On the bottom of the computer head next to the battery door is a small recessed button. This is the Auto Clear Button. Pressing this button will clear all memories and reset all functions to their default values.

BUTTON FUNCTIONS

The Sensor is equipped with 2 buttons that control the function of the unit.

1. MODE
Changes the Main Screem of the Sensor

2. ADJUST
Adjusts digits while programming

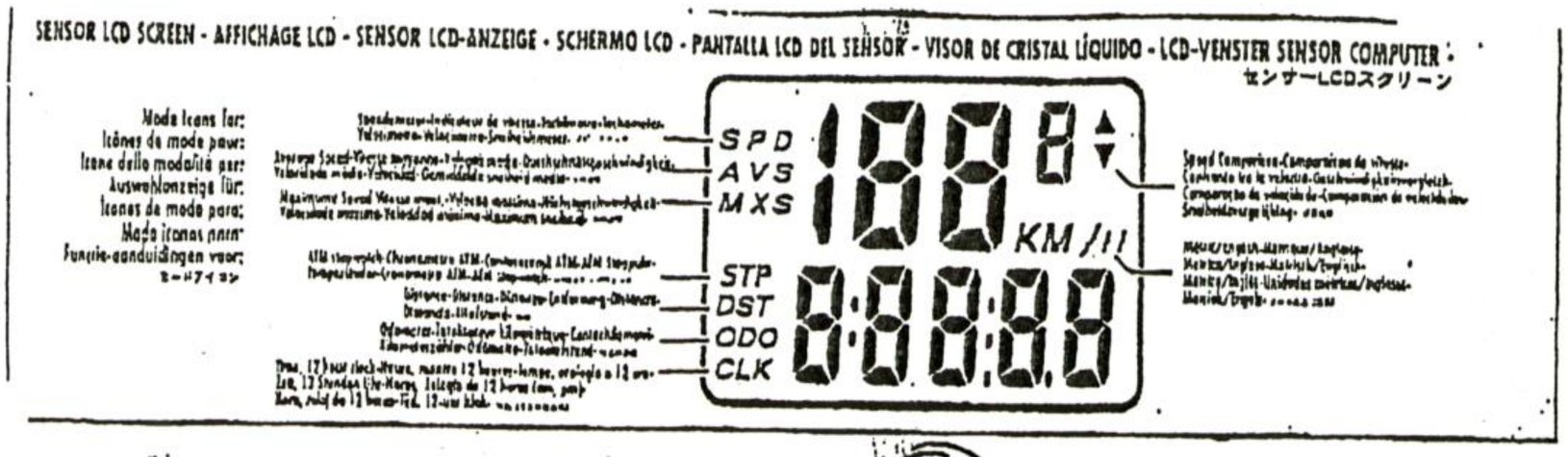
PROGRAMMING YOUR TREK SENSOR CYCLE COMPUTER

Setting the Clock
1. Press the Mode Key to advance to **MXS**/clock display.
2. Press and hold the Mode Key for over 2 seconds until hours setting begins to flash.
3. Press the Adjust Key to adjust hours setting, press the Mode Key to confirm and advance to minutes setting.
4. Press the Adjust Key (hold for fast advance) to adjust the minutes, and press the Mode Key to confirm setting and enter normal display mode.



Setting Miles/ Kilometers and Wheel Size

1. Press Mode Key computer Key to enter **AVS/ODO** mode.
2. Press and hold Mode Key for over 2 seconds until m/h begins to flash.
3. Press Adjust Key to select miles (m/h) or kilometers (km/h) display.
4. Press Mode Key to confirm choice and advance to wheel size setting.
5. Adjust the flashing digit with the Adjust Key, confirm choice by pressing Mode key, and advance to next flashing digit.



Wheel Size Setting

The wheel size setting number is equal to the distance, in millimeters, that your front wheel travels during one complete revolution. Each time the wheel magnet passes the sensor unit on your fork, the sensor sends an impulse to the computer telling it that your wheel has completed one revolution. The computer calculates this distance vs. time to give you accurate readings for the various modes.

Determining Wheel Size Setting

There are three methods for determining the wheel size setting. For the most accurate computer readings, it is best to measure the actual distance that your wheel travels in one complete revolution. This method is called a wheel roll out.

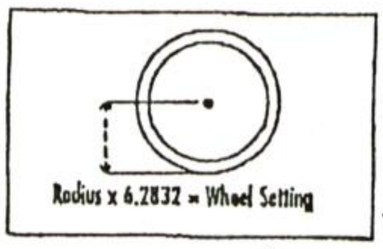
Method One: Wheel Roll Out

- Perform the wheel roll out on a hard, flat, smooth surface such as a garage or basement floor.
- Make sure your tires are properly inflated.

1. Position your bike so that the valve stem of the front wheel is at its bottom most position. Mark the spot on the floor directly under the center of the valve stem using a piece of tape or chalk.

2. Roll the bicycle forward in a straight line, while putting downward pressure on the handlebars to simulate rider weight. When the wheel has completed one revolution and the valve stem is at its bottom position, mark the floor directly under the center of the valve stem with tape or chalk. Measure the distance between the two marks in millimeters. (Note: Conversion of in. to mm. is 1 in.=25.4 mm. This is your wheel setting number. You can repeat this procedure and average your results. We recommend that you record your wheel setting numbers here for future reference.

Method Two:



Measure wheel radius (including tire) in mm and multiply by 6.2832=Wheel setting number.

Method Three:

Refer to the following chart and input the number that corresponds to your tire size. (Note: Actual size of two similarly marked tires from different manufactures can vary significantly, making this method the least accurate.)

WHEEL SIZE CHART

	Wheel/Tire Size	Wheel Size Setting In mm
ATB	26 x 1.0 ATB	1913
	26 x 1.25	1953
	26 x 1.5	1985
	26 x 1.9	2055
	26 x 2.0	2074
	26 x 2.1	2095
	26 x 2.2	2110
ROAD	700 x 20c	2074
	700 x 23c	2114
	700 x 25c	2124
	700 x 28c	2140
	700 x 32c	2155
	700 x 35c	2175
	700 x 38c	2180
	700 x 40c	2190
	650 x 20c	1945
	650 x 23c	1990
	Wide 700c Tubular	2117
	Narrow 700c Tubular	2105
	27 x 1"	2145
	27 x 1-1/4	2160

QUICK REFERENCE GUIDE

Desired Function	Which Key	Notes	Notation
Advance Digits While Programming	Adjust Key		Hold for Fast Advance
Set Digits While Programming	Mode Key		
Set Clock	Mode Key for 2 Sec.		In MXS/Clock Screen
Set Miles/Kilometers/Wheel Size	Mode Key for 2 Sec.		In AVS/ODO Screen
Enter STP "Lap Timer" Display	Adjust Key for 2 Sec.		In any Screen
Reset STP, DST, AVG and Max	Mode Key for 2 Sec.		In SPD/STP Screen

TROUBLESHOOTING

- **No Speed Reading**
  Improper magnet to sensor alignment, computer improperly installed in bracket.
- **Slow Display Response**
  Temperature is outside operation limit (0°-55°C).
- **Display is Black**
  Temperature is too hot. Remove from direct sunlight to return to proper operation.
- **Display Fades or Disappears**
  Weak or dead battery, dirty battery contacts.
- **Irregular Display Figures**
  Check and record total Odometer, then press Auto Clear button to initialize computer. Follow setup procedure and adjust Odometer setting.

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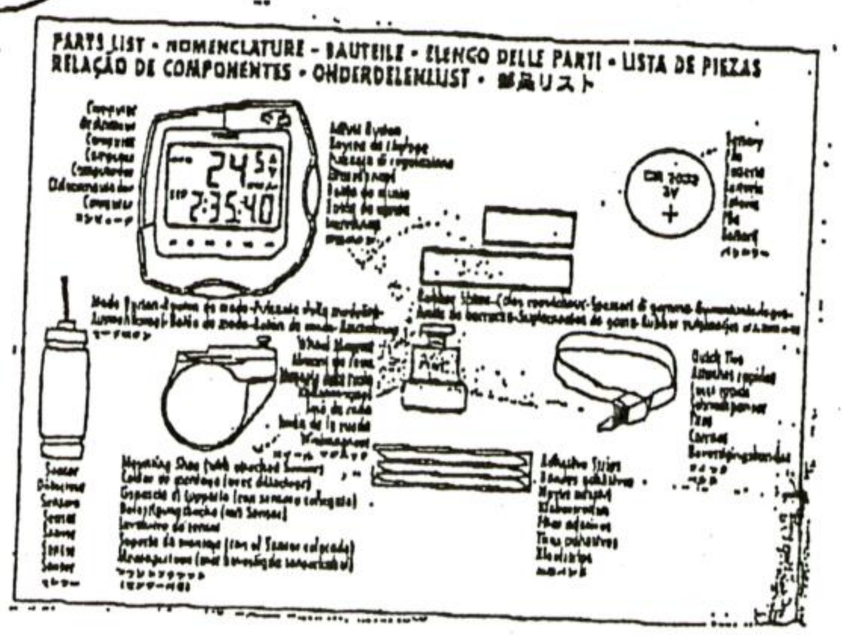

COMPUTER WARRANTY

Your Trek Sensor Computer is guaranteed for 2 years against defects in workmanship or materials. If you experience problems refer to the suggestions in the troubleshooting guide in this manual. If this does not solve your problem, please return the computer to your authorized Trek Dealer or send the computer postage paid to:

Trek Bicycle Corporation
Attn. Computer Warranty Dept.
801 W Madison Street
Waterloo, WI 53594 USA

TREK UK
Attn. Computer Warranty Dept.
15 Old Bridge Way
Bedfordshire, SG17 5HD ENGLAND

Please include the following:
1. The complete computer (wiring, etc.)
2. A copy of your sales receipt
3. A brief explanation of the problems
4. Your return address

For 2 years from the date of purchase, a replacement computer of the same model will be sent to you postage paid by Trek Bicycle Corporation.