

CYCLOMETER 30 CYCLOMETER 31



MADE IN USA

AVOCET

OPERATION

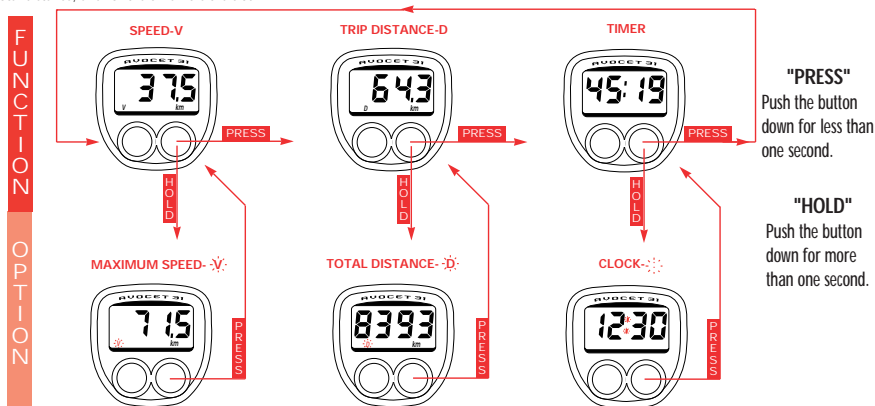
The three primary functions of the Cyclometer 30/31—speed, trip distance, and timer—are presented in a loop sequence by pressing the right button. Each primary function has an optional function that is reached by holding the right button down for one second.

For speed the optional function is maximum speed; for trip distance it is total distance; and for the timer it is the clock.

To return to the primary function from an optional function, press the right button.

Pressing the left and right buttons at the same time while in maximum speed, trip distance, or timer resets the function currently displayed to zero.

While in the timing function, the timer is started and stopped by pressing the left button.



SPEED FUNCTIONS



Speed. The display has a "V" in its lower left corner. It shows current velocity up to 108 km/h or 67 mph with .5 km/h or mph resolution.



Maximum Speed. The display has a flashing "V" in its lower left corner and shows the maximum speed reached up to 108 km/h or 67 mph. Reset by pressing both buttons at the same time.

TIME FUNCTIONS



Timer. Press the left button to start or stop the one-hour timer. After 59 minutes and 59 seconds the display resets to zero and resumes counting. To reset, press both buttons at the same time.



Clock. The 12-hour clock display has a flashing colon between hours and minutes to make it easily distinguishable from the timer.

DISTANCE FUNCTIONS



Trip Distance. The display has a "D" in its lower left corner. Distances up to 999.9 miles or kilometers are recorded. It can be reset to zero by pressing both buttons at the same time.



Total Distance. The display has a flashing "D" in its lower left corner and shows the total distance traveled up to 9999 miles or kilometers. It can only be reset by removing the battery.

SETTING THE CLOCK

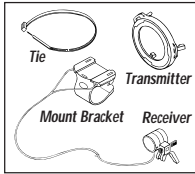


Set Hour. Press both buttons at the same time. The hour digits will flash. Press the left button to advance the hours. When you reach the correct hour, press the right button. The minute digits will flash.



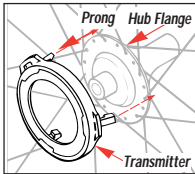
Set Minute. Press the left button to advance the minutes. When you reach the correct minute, press the right button to exit clock set.

PARTS AND TOOLS



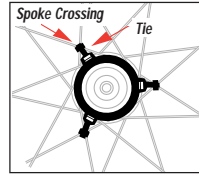
Tools. You will need a small screwdriver and scissors. If your front wheel does not have a quick-release hub, you will also need a wrench to remove it.

INSTALLATION-STEP 1



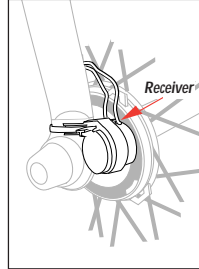
Transmitter. Remove the front wheel. The 3-prong transmitter supplied snaps on the right hub flange of most 36-spoke wheels. For 32-spoke wheels, use a 4-prong transmitter available separately. For medium and large flange hubs, attach with ties (see step 1A). Reinstall the wheel.

INSTALLATION-STEP 1A



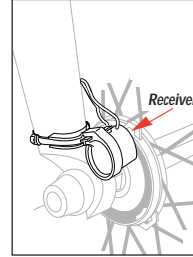
Transmitter-Cable Tie Method. If the ring does not snap on the hub flange, cut off its prongs. Attach it to the three nearest spoke crossings with ties. Center the ring while gradually tightening the ties. Trim the tie ends and reinstall the wheel. A rear wheel transmitter kit is available separately for incompatible forks and use with trainers.

INSTALLATION-STEP 2



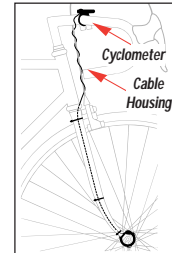
Receiver. Position the receiver on the front of the fork opposite the transmitter magnet (dark stripe). Squeeze the legs of the clamp together to mount on forks with thin ends. Thread a cable tie through the hole in the clamp and around the fork. Pull the tie tight, then adjust the receiver as close as possible to the transmitter (less than 1/8" for best performance).

INSTALLATION-STEP 2A



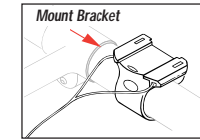
Receiver-Fat Forks. Position the receiver on the front of the fork opposite the transmitter magnet (dark stripe). Spread the clamp wide and mount on the round part of fat forks. Thread a cable tie through the hole in the clamp and around the fork. Pull the tie tight, then adjust the receiver as close as possible to the transmitter (less than 1/8" for best performance).

INSTALLATION-STEP 3



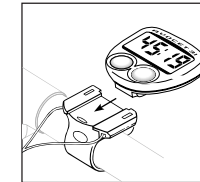
Receiver Wire. Secure the wire with ties starting at the receiver. Attach the wire only to parts that rotate when the bicycle is steered—the fork, the handlebar stem, or the front brake cable. Do not attach the wire to the head tube. Coil excess wire around the front brake cable housing.

INSTALLATION-STEP 4



Mount Bracket. Remove the clamp screw and place the mount bracket on the handlebar near the right side of the stem. Insert the clamp screw and tighten it until the bracket does not move when the Cyclometer is inserted or removed. Small diameter bars may require one or more wraps of tape beneath the clamp for a tight fit.

INSTALLATION-STEP 5



Cyclometer 30/31 Installation. Slide the Cyclometer into the mount bracket from front to rear until it snaps on. Choose the speed function, then spin the front wheel and watch for a reading. If the display remains at zero, make sure that the receiver and transmitter are aligned and nearly touching and that the Cyclometer is pushed all the way on the clamp.

CALIBRATION

Calibration Procedure. Find the calibration number for your tire size from the table or determine it by custom calibration. Go to the total distance function (a flashing "D" must show) and hold down both buttons for more than two seconds. This shows the calibration numbers. Numbers begin at 100 and go through 299. There is one sequence of numbers for miles followed by one for kilometers. Miles are indicated by "mi" in the lower right corner of the display, and kilometers by "km." To rapidly advance the numbers hold the left button down. To advance one number at a time, press the left button. When you reach your number, press the right button to leave calibration.

Note: If you switch between miles and kilometers, stored data is not converted to the new units. If you want to avoid adding miles to kilometers or kilometers to miles, completely reset the Cyclometer by removing and reinserting the battery.



CALIBRATION NUMBERS

Tire Size	mi	km	Tire Size	mi	km
20 x 1.75	164	165	700C tubular	224	225
24 x 1	188	289	700 x 20	221	222
24 tubular	189	190	700 x 25	224	225
26 tubular	207	208	700 x 28	225	226
26 x 1 (559-25)	205	206	700 x 32	227	228
26 x 1 (571-20)	207	208	700 x 35	229	230
26 x 1.25	211	212	700 x 38	230	231
26 x 1.5	212	213	27 x 7/8	223	224
26 x 1.9/1.95	220	221	27 x 1	226	227
26 x 2.125/2.2	225	226	27 x 1 1/8	228	229
26 x 1 3/8	222	223	27 x 1 1/4	230	231

Note: Tire sizes are molded into the tire sidewall. This table is based on popular tire brands and assumes recommended inflation pressure and a rider weight of 150 lbs. (68 kg). If your tire size is not included, or if you want to account for your particular combination of weight, tire pressure, and brand, use the custom calibration procedure.

CUSTOM CALIBRATION

To get a calibration number for your unique tire circumference you must measure the tire while you ride. To measure this rolling circumference first mark the ground directly below the valve stem when the stem is at its lowest point. Have a helper push you in your normal riding position until the valve stem returns to its lowest point. Make another mark below the stem. Measure the distance between the marks. This is your rolling circumference.

Calibration Formula

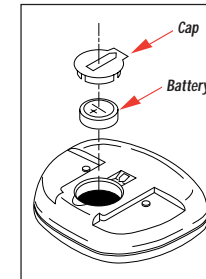
Miles: Calibration Number = Rolling Circumference in Inches x 2.7273.

Example: If your rolling circumference is 82.75 inches, then $82.75 \times 2.7273 = 225.684$. Rounded to the nearest whole number your calibration number is 226.

Kilometers: Calibration Number = Rolling Circumference in Millimeters x .108.

Example: If your rolling circumference is 2136 mm then $2136 \times .108 = 230.688$. Rounded to the nearest whole number your calibration number is 231.

BATTERY



Installation and Removal. Install the battery in its compartment on the back of the Cyclometer with the positive (+) side toward the cap. Press the cap on with your thumb. To remove the battery, pry the cap up with a screwdriver. Cyclometers 30 and 31 use different batteries. For Cyclometer 30 use Eveready 386 or Duracell D386. For Cyclometer 31 use Eveready AC675E or Duracell DA 675. Recalibrate your Cyclometer after removing the battery.