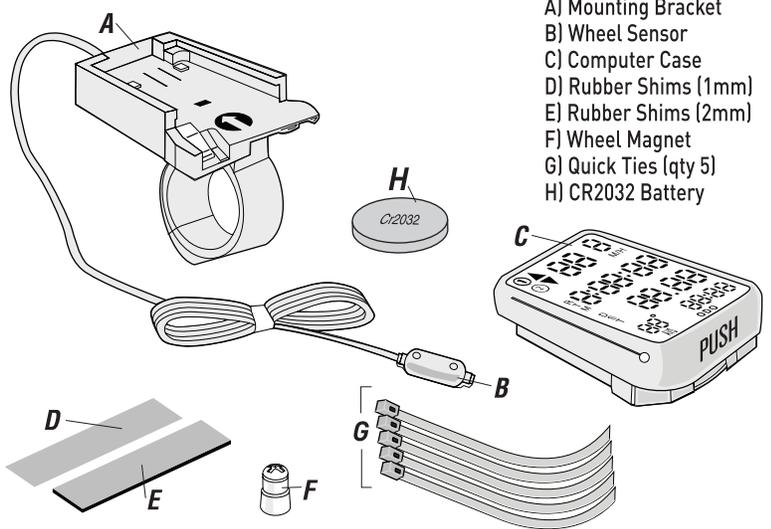


PROTEGÉ 8.0 + PROTEGÉ 9.0 INSTRUCTION MANUAL



HARDWARE PACK



- A) Mounting Bracket
- B) Wheel Sensor
- C) Computer Case
- D) Rubber Shims (1mm)
- E) Rubber Shims (2mm)
- F) Wheel Magnet
- G) Quick Ties (qty 5)
- H) CR2032 Battery



WARNING: INGESTION HAZARD: This product contains a button cell or coin battery. **DEATH** or serious injury can occur if ingested. A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**. **KEEP** new and used batteries **OUT OF REACH of CHILDREN**. **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.

MOUNTING INSTRUCTIONS

STEP 1: Attach the wheel sensor to the right or left fork using two quick ties (diagram 1). **Note:** Do not fully tighten quick ties until final placement is determined. We recommend a sensor placement of 1-2 inches up from hub axle (diagram 1). Position sensor and wire on backside (toward rider) of fork blade to offer protection from debris while riding.

STEP 2: Attach magnet to spoke using screwdriver (diagram 2) so magnet lines up directly across from one of the flat round dots at the lower or upper portion of wheel sensor with a distance of 2-5 mm between sensor and magnet (diagram 3). **Caution:** Do not over-tighten magnet screw.

STEP 3: Attach the wire harness to the fork using quick ties (diagram 1). Excess wire can be wrapped around brake cable before securing bracket to handlebar. **Note:** Allow slight wire slack between fork and brake cable for turning handlebars.

STEP 4: Attach the computer bracket to the handlebars near the stem (diagram 4). Use any combination of rubber shims to fit different diameter handlebars. Tighten the screw so the bracket will not rotate on the handlebars. Slide the computer head into the bracket until it "snaps" into place.

STEP 5: TEST With the computer head in the bracket, rotate front wheel to test for proper function of magnet/wheel sensor alignment. The mph/kph indicator will flash if the sensor and magnet are properly aligned. Tighten quick ties on sensor when correct alignment is achieved.

TO REMOVE COMPUTER HEAD FROM BRACKET: Push the computer in the opposite direction you would to mount it (diagram 5). The computer head will "snap" out. **Note:** You may have to push hard, or carefully pry with a small screwdriver.

MOUNTING SENSOR

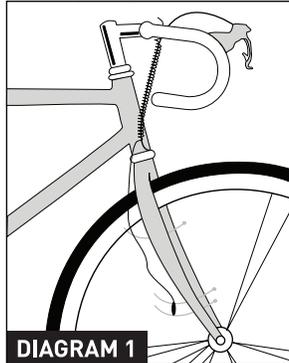


DIAGRAM 1

MOUNTING MAGNET (FRONT WHEEL)

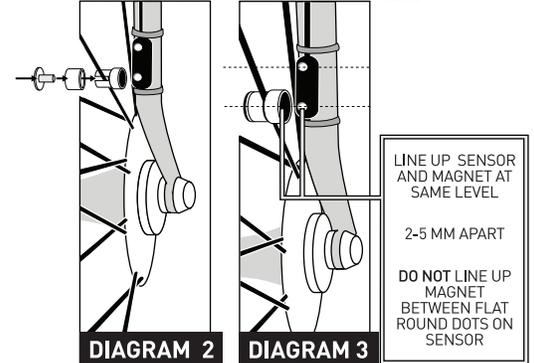


DIAGRAM 2

DIAGRAM 3

LINE UP SENSOR AND MAGNET AT SAME LEVEL
2-5 MM APART
DO NOT LINE UP MAGNET BETWEEN FLAT ROUND DOTS ON SENSOR

MOUNTING BRACKET

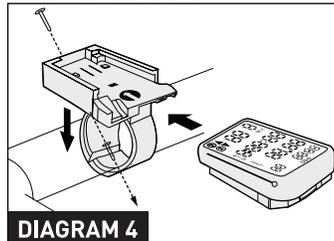


DIAGRAM 4

COMPUTER HEAD REMOVAL

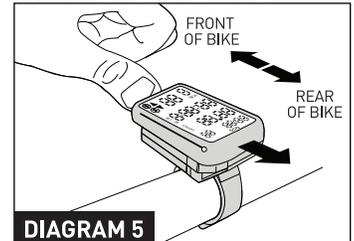
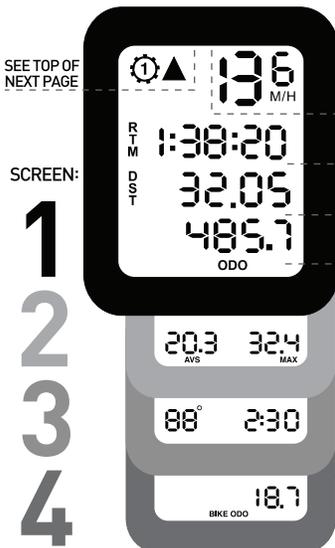


DIAGRAM 5

FUNCTIONS + SPECIFICATIONS

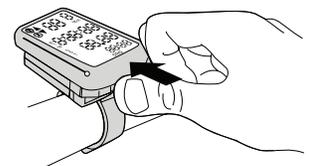


LINE: LCD Specification - Line 1, 2, and 3 modes do not change

- 1 CURRENT SPEED: Miles or Kilometers per hour - 0 to 99.9 mph/kph - Increments of 0.1 mph/kph
- 2 RIDE TIME (RTM): Up to 9:59:59 - Increments of 1 second
- 3 RIDE DISTANCE (DST): Up to 999.99 M or K - Increments of 0.01 M or K
- 4 ODOMETER (ODO): Up to 99,999.99 M or K - Increments of 0.01 M or K (ODO = Cumulative distance for BIKE 1 and BIKE 2)

CHANGE MODE TO SCREEN 2-4 BY PUSHING COMPUTER FORWARD IN BRACKET TO ACCESS:

- OR AVERAGE SPEED (AVS): 0-99.9 mph/kph - Increments of 0.01 mph/kph
- OR MAXIMUM SPEED (MAX): 0-99.9 mph/kph - Increments of 0.01 mph/kph
- OR TEMPERATURE: -19° to 120°F/-19° to 50°C (two digit display, neg. symbol does not display)
- OR CLOCK: 12 hr format - Indicated by flashing colon ":" (Protegé 9.0 only)
- OR BIKE ODOMETER (BIKE ODO): Up to 99,999.99 M or K - Increments of 0.01 M or K This is the distance for the wheel size currently being used, it only appears when distance is registered on both BIKE 1 and BIKE 2.



PUSH AND RELEASE FOR MODE CHANGE
CAUTION: HOLD FOR LESS THAN ONE SECOND OR YOU WILL RESET ALL THE RIDE DATA

ADDITIONAL FEATURES

SPEED COMPARATOR: Indicated by "▲" and "▼"
 "▲" indicates your current speed is faster than your current average speed.
 "▼" indicates your current speed is slower than your current average speed.

DUAL WHEEL SIZE SETTINGS: Indicated by "①" or "②". Allows user to program two separate wheel sizes so the computer can be used for two separate bikes with purchase of second handlebar bracket harness (part #8000-8).

"①" represents an ATB or Hybrid tire, or bike 1.
 "②" represents a Road or smooth tire, or bike 2.

This allows you to know which wheel size corresponds with which bike you are riding

ADDED FEATURES:

- Auto LCD OFF - LCD automatically shuts off to conserve power after 5 minutes of non-use. Clock will still be displayed.
- Auto-Start/Stop - Automatically starts recording data or stops recording data when you start or stop riding.
- MacroMonitor™ LCD display displays up to 4 functions at once, allowing for fewer mode changes.
- "Buttonless" design for ease of use - push computer forward in bracket to change modes.
- Weather proof construction for all-weather use.

COMPUTER SETUP + PROGRAMMING

TO INSTALL THE BATTERY: remove cover by pulling up on the small tab on the battery cover. Install the battery (model CR2032 3V Lithium) with the "+" side facing up. Replace the battery cover, making sure that the rubber gasket is in place and the battery cover is flush. Reinstall the battery cover by lining up indentation and pressing down.

SETUP AND PROGRAMMING are facilitated by using the "set" and "mode" buttons located on the underside of the computer case (diagram 6). To initiate programming, press "mode" button to display SCREEN 1, with "ODO" displayed on line 4. Depress and hold the "set" button for 3-4 seconds (use a pen or small phillips screwdriver). Upon release, the M/H or K/H icon will flash.

STEP 1: TO SELECT MILES/HOUR (M/H) OR KILOMETERS/HOUR (KM/H) press the mode button. Press the set button to lock in your selection and the screen will display "2154" (or your current tire setting) with the last digit flashing

STEP 2: WHEEL SIZE SETTING (WSS) The screen will now display "①" default WSS "2154" with the "4" flashing.* Background information: The bicycle computer calculates information based upon the distance traveled each time your wheel goes around. The wheel size setting equals the distance in mm traveled in one revolution of your wheel. *For WSS less than 1000mm, input your WSS in WSS ②. WSS ① does not allow a size less than 1000mm. There are two methods to determine the wheel size setting.

METHOD 1: Read the tire size on the side wall of your tire and input the number that corresponds to your tire size on the tire size chart to the right. Since there are many tire manufacturers and designs, tires listed as the same size from different manufacturers can actually vary significantly in their actual circumference. Therefore, we recommend using method 2 for maximum accuracy in your computer readings.

METHOD 2: WHEEL ROLL OUT For best results, find a flat smooth surface to perform the wheel roll out and inflate your tires to riding pressure.

A) Place a piece of masking tape or draw a line on the surface to determine a starting position.

B) Position the front tire valve at the 6:00 position (diagram 2) directly above the starting position.

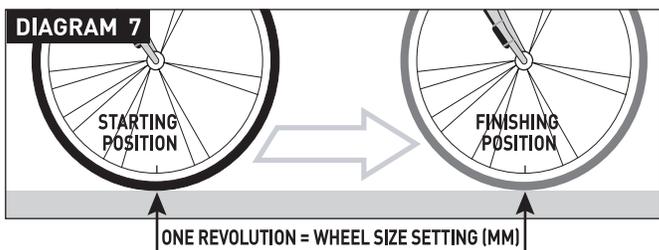
C) Roll the bicycle forward one revolution of the wheel in a straight line until the valve stem is again at the 6:00 position. (Note: Putting pressure on the handle bars to simulate body weight on the tire will give more accurate results.) Mark the finishing position with masking tape or a line. Measure the distance between the starting and finishing positions in mm. This is your WSS. Repeat the procedure if necessary and average the results. (Note: If you use an inch measuring tape, multiply inches by 25.4 to achieve your WSS in mm.)

STEP 3: ENTERING WHEEL SIZE SETTING (WSS) ① A) Press "mode" button to change flashing first digit to desired selection.

B) Press "set" button to lock in your selection and advance to the next flashing digit.

C) Repeat steps A-B until all four digits are set. After the fourth digit is set it will advance to the screen Odometer setting.

DIAGRAM 7



STEP 4: ODOMETER SETTING ①: The digit on the far right will be flashing. (If you don't need to set the Odometer, repeatedly press "set" to advance to WSS ②.) Repeat steps 5A and 5B again to set the Odometer.

STEP 5: WHEEL SIZE SETTING ② (WSS): The screen will now display "②" default WSS "0000" with the first "0" flashing. Repeat step 5 used to set WSS ①. Note: 2nd wheel size is not active if size is not entered.

STEP 6: ODOMETER SETTING ②: Repeat step 6 to set Odometer ②.

STEP 7: CLOCK SETTING: The hour digit on the far left will be flashing. Repeat steps 5A and 5B again to set the time. To reset the clock only, press "mode" button until clock function is displayed on line four. Press "set" button to initiate clock reset. Follow steps 5A and 5B above to set the time. When you are done, the computer case will enter normal operating mode. Now is time to properly install the bracket and sensor.

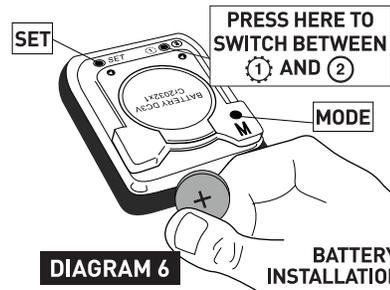


DIAGRAM 6

BATTERY INSTALLATION

TIRE SIZE	WSS	TIRE SIZE	WSS
20 x 1.75	1502	700 x 23c	2105
24 x 1.75	1894	700 x 25c	2105
26 x 1 (559mm; 650c)	1925	700 x 28c	2143
26 x 1.25	1950	700 x 32c	2160
26 x 1.5	1996	700 x 35c	2168
26 x 1.95	2055	700 x 38c	2184
26 x 2.1	2070	700 x 40c	2200
26 x 3.0	2170	700 x 45c	2242
26 x 4.0	2288		
27.5 x 1.95	2090		
27.5 x 2.1	2148		
29 x 2.1	2288		
29 x 2.3	2326		

FOR FUTURE REFERENCE, WRITE YOUR WSS HERE:

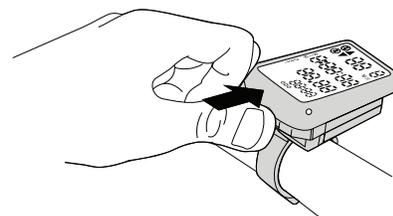
COMPUTER OPERATION

PRECAUTION: When using the Protégé Bicycle Computer, you should ride safely and pay primary attention to the road, traffic or trail conditions at all times.

MODE CHANGE: Push the computer forward in the bracket as far as it will go and release. The fourth line will change functions. It is recommended that the thumb be positioned in the center of the computer when activating mode changes. Note: do not hold the computer forward in the bracket for more than one second or ride data will be reset to "0".

RESET RIDE DATA: After your ride or before your next ride, you can reset "ride" data (Ride Time, Ride Distance) to "0" by pushing the computer forward in the bracket until ride data clears to "0". Release computer when ride clears to "0".

BATTERY INSTALLATION: The battery should last for 1-2 years with normal use. If you find it necessary to replace the battery, remove the computer from its bracket. (Hint: Record your Odometer mileage before replacing the battery, so you can re-input your Odometer reading after the battery is installed.) Turn the computer over and remove battery cover (diagram 6). Install the battery (Model CR2032 3V Lithium) with the "+" side facing up. Snap battery cover into case until secure. Make sure the rubber water seal gasket is in place and the battery cover is flush with battery case. Refer to Computer Setup and Programming to re-input setup data. Replace the computer in the bracket.



PUSH & HOLD FOR THREE (3) SECONDS TO RESET ALL THE RIDE DATA

TROUBLESHOOTING

1) DISPLAY IS BLANK OR SHOWS PARTIAL DIGITS

Remove and reinsert battery. If problem persists, a new battery may be required.

2) LCD DISPLAYS NUMBERS BUT DOES NOT RECORD DATA WHEN RIDING

Check for proper wheel sensor/magnet alignment (see diagram 3). Check battery in the computer.

3) LCD SCREEN IS DARK

This is normally caused by overheating when the computer is left sitting in the sun. Allow the computer to cool and it should return to normal.

4) THE MODE BUTTON WILL NOT WORK DURING SETUP

This is usually caused by the set button being slightly stuck inside the computer case. Try bending a paper clip and use the end to wiggle the set button around until it pops and is flush with the computer case. This will unlock the mode button and make it possible to set up the computer.

5) THE LCD SCREEN GOES BLANK AND COMPUTER RESETS

Take out the battery and bend the two metal contacts towards to battery to help establish better contact. Re-insert the battery.

If you experience any other problems, contact your Planet Bike dealer or Planet Bike.