



dZ2L Wired Cycle Computer Owner's Manual



INTRODUCTION

Congratulations on your purchase of the dZ2L cycle computer by FILZER. This is an easy to use cycle computer.

HOW TO MEASURE WHEEL SIZE

WHEEL SIZE (WS): Before you program your computer you need to determine your Wheel Size (WS). WS is the circumference of the front wheel in mm. This value is entered into the computer in order to calculate speed and distance.

While charts provide a quick and easy way to get WS, there are no standard wheel sizes in the cycling world - i.e. the circumference (or Wheel Size = WS) of a 700x23 tire will differ from one brand of tire to another - so for accurate speed and distance values on your computer you need to measure your wheel circumference.

To obtain WS:

Method 1: Fast (and not so accurate) method - use chart provided.

Method 2: Most accurate method:

a) See Figure 8.

b) Inflate your tires to their proper pressure.

c) Put a mark on your front wheel on the outside circumference.

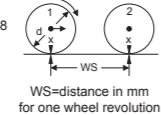
d) Put a mark on the floor.

e) Put the mark on the wheel on the mark on the floor.

f) Rotate the wheel one full revolution until the mark on the wheel is on the floor again. Mark this location.

g) Measure the distance between the marks on the floor in mm. This is the Wheel Size (WS) (i.e. your wheel circumference in mm).

h) Write this number down. The value should be between 1800 and 2200 mm for standard size tires. The unit can accommodate WS values between 100 and 5999 mm.



WS=distance in mm for one wheel revolution

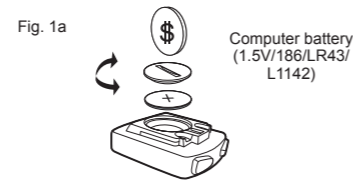
Fig.8

FUNCTIONS

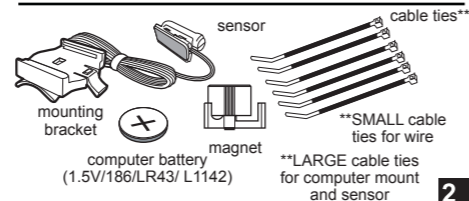
Speedometer (0-99.9 Km/hr or M/hr)
Tripmeter (DST) (Up to 999.99 Km or M)
Odometer (ODO) (Up to 9999.99 Km or M)
Auto trip timer (TM) (59:59:59)
Speed Comparator (+ or -)
Speed Tendency

BATTERY INSTALLATION

Computer - (Note: Battery is pre-installed) Remove the battery cover from the bottom of the computer using a small coin. Install the 1.5V battery with positive (+) pole facing the cover (Figure 1a). If the LCD shows irregular figures, take out the battery and install again. This will clear and restart the computer's microprocessor.



PARTS



SETUP

SETUP/RESET: In SETUP mode you can set WHEEL SIZE (WS), and KM/MILE. Press and hold the LEFT and RIGHT buttons for 4 seconds to access initial setup mode. The digits on the bottom row will flash - this is the WHEEL SIZE (WS) setup. Note - all data will be lost.

WHEEL SIZE (WS): Press the RIGHT button to adjust the value of the first digit of WS. Once you have entered the correct value press the LEFT button to advance to the next digit. Repeat for all four digits. Press the LEFT button to confirm and advance to KM/MILE setup.

KM/MILE SELECTION (12/24): Km/Miles units for distance and speed will flash. Press the RIGHT button to toggle between kilometre (KM) and miles (M). Press the LEFT button to confirm and exit setup.

ADJUSTING WHEEL SIZE (WS) and KM/M AFTER SETUP: If you need to change WS or change KM/M after setup see above SETUP/RESET section above.

PARTS INSTALLATION LOCATION

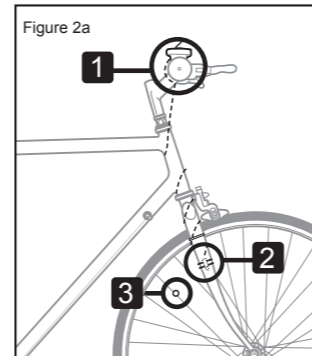
Area 1 - Mounting bracket (handlebar)
Area 2 - Speed sensor (right fork)
Area 3 - Speed Magnet (front wheel spoke)

a) Install the mounting bracket as per page 5
b) See Figure 2a for routing of sensors wire.

c) Make sure that there is enough wire clearance so the handlebars can rotate fully in both directions without pulling at the sensor wire.

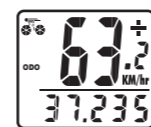
d) Without using LARGE cable ties - position the sensor on the inside face of the right fork and the magnet on a wheel spoke. Position the sensor and magnet in such a way so that the magnet passes over the circle arrow on the sensor as shown in Figures 2c, 2e and 2f.

e) Once you have determined the approximate position of the sensor and magnet - loosely put the LARGE cable ties on the sensor and attach the magnet to the correct spoke. See Figures 2d and 2e on how to attach the spoke magnet. The magnet should be maximum 2mm from the sensor.



COMPUTER DISPLAY

There are 3 main screens. Press the RIGHT button to toggle between the three display screens.
Screen 1 displays Current Speed, Odometer (ODO), Speed Comparator (+ or -) and Speed Tendency.



Screen 2 displays Current Speed, Tripometer (DST), Speed Comparator (+ or -) and Speed Tendency.

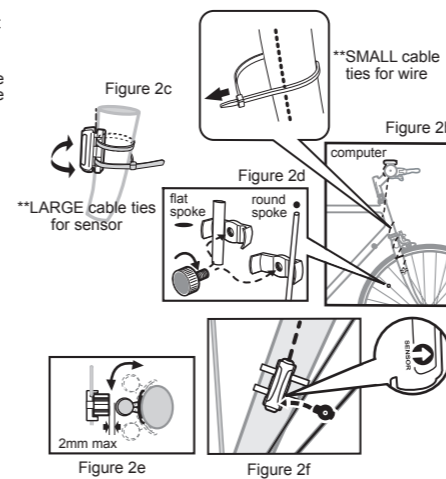


Screen 3 displays Current Speed, Auto Trip Timer (TM), Speed Comparator (+ or -) and Speed Tendency.



f) Test out the positioning of the sensor and magnet by rotating the front wheel to see if the computer registers a speed value. If no value is registered reposition the sensor and magnet again. Make sure the magnet passes over circle arrow on the speed sensor as shown in Figure 2f. Once you have positioned the magnet and sensor properly, tighten up the sensor cable ties and ensure the magnet is securely tightened.

g) Secure the rest of the wire securely to the frame of your bicycle with the remaining SMALL cable ties. Make sure that there are no dangling wires.



COMPUTER FUNCTIONS

SPEEDOMETER
Instantaneous Speed is displayed on the top row. The range of measurement is from 0 to 99 KM/hr (0 to 99 M/hr) and accuracy is +/-0.5 KM/hr (M/hr).



TRIPOMETER (DST)
Press the right button to scroll through screens until DST is displayed on the left side of the display. The trip distance (DST) value is displayed on the bottom row. Tripometer is activated automatically with speedometer input. To reset DST to zero go to the DST Screen and press and hold the LEFT button for 2 seconds. Note: Trip Timer (TM) will also be reset to zero.



TRIP TIMER (TM)
Press the right button to scroll through screens until TM is displayed on the left side of the display. The Trip Timer (TM) value is displayed on the bottom row. Trip Timer is activated automatically with speedometer input (when the front wheel is turning). It records only the time spent actually riding. To reset TM to zero go to the DST Screen and press and hold the LEFT button for 2 seconds.

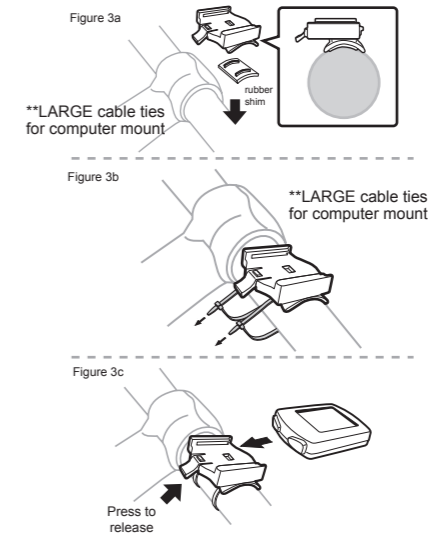


ODOMETER (ODO)
Press the right button to scroll through screens until ODO is displayed on the left side of the display. The total distance traveled (ODO) value is displayed on the bottom row. To reset ODO to zero, press and hold LEFT and RIGHT buttons for 5 seconds or remove the battery. Note all data will also be reset to zero and you will enter setup mode.



MOUNTING BRACKET INSTALLATION

Attach the mounting bracket to the right side of the handlebar with the LARGE cable ties (Figure 3a and 3b). Make sure the mounting bracket is clamped tightly and will not slip on the handlebar. Slide the computer onto the mounting bracket until it snaps firmly into position. Press the release button to remove the computer (Figure 3c).



SPEED COMPARATOR: A (+) or (-) sign appears on the top right hand corner of the display. A (+) indicates you are traveling faster than your average speed. A (-) indicates you are riding slower than your average speed.

SPEED TENDENCY (Acceleration & Deceleration): A cyclist icon appears on the top left hand side of the display. The wheels turn forward to indicate acceleration, and turn backwards to indicate deceleration.

AUTO START/STOP: To prolong battery life, the computer will automatically switch off if the unit is left unused for more than 5 or 6 minutes. Display will reappear with a press on either button or input from the front wheel.

Trouble Shooting

Problem	Solution
No Speedometer reading	Improper magnet/transmitter alignment. Check magnet/transmitter alignment.
Slow display response	Temperature outside of operating limits (32-125 °F or 0-55 °C)
No Trip Distance reading	Improper magnet/transmitter alignment. Check magnet/transmitter alignment.
Display shows irregular figures or blank screen	Re-install computer battery and verify that the computer battery is good.



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Art No.: K-04-T-P3-GB-FILZER(dZ2L)