



## dZ4L-3 Wired Cycle Computer Owner's Manual



### INTRODUCTION

Congratulations on your purchase of the dZ4L-3 wired cycle computer by FILZER. Packed with all the features that a professional rider needs to keep track of during a workout, this computer is a perfect training tool for any cyclist.

### 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 its 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. The unit can accommodate WS values between 100 and 5999 mm.

### FUNCTIONS

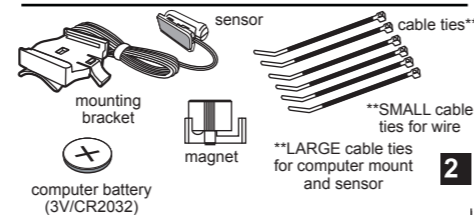
Speedometer (0-99.9 Km/hr or M/hr)  
Tripmeter (DST) (Up to 999.99 Km or M)  
Odometer (ODO) (Up to 9999.99 Km or M)  
Auto trip timer (TM) (99:59:59)  
Maximum Speed (MXS) (up to 99.9 Km/Hr or M/hr)  
Digital Clock, 12/24 hour Selectable  
Average Speed (AVS) (0-99.9 Km/hr or M/hr)  
Speed Comparator (+ or -)  
Speed Tendency (▲)  
Odometer Program Function

### BATTERY INSTALLATION

Computer - (Note: Battery is pre-installed) Remove the battery cover from the bottom of the computer using a small coin. Install the 3V 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 AND SENSOR INSTALLATION



### INITIAL SETUP

**SETUP/RESET:** In INITIAL SETUP mode you can set WHEEL SIZE (WS), KM/MILE, 12/24 hour clock and clock time. 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.

**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 advance to 12/24 CLOCK setup.

**CLOCK (12H/24H):** A 12 or 24-hour digital clock is displayed on the bottom row of the screen. Press the RIGHT key to toggle between 12 and 24 hour format. Press the LEFT button to confirm and advance to clock setup.

**CLOCK:** Press the RIGHT button to advance the hours (hold RIGHT button for fast advance). Press the LEFT button to confirm hours. Press the RIGHT button to advance minutes (hold RIGHT button for fast advance). Press LEFT button to confirm minutes and exit setup.

**ADJUSTING CLK, ODO and WHEEL SIZE (WS) VALUES AFTER SETUP:** CLK, ODO and WS can be changed after setup. Go to CLK screen. Press and hold LEFT button for 5 seconds. CLK hours will flash. Press the RIGHT button to advance the hours. Press the LEFT button to confirm hours. Press the RIGHT button to advance minutes. Press LEFT button to confirm minutes and enter ODO setup. To adjust ODO value, press the RIGHT button and then press the LEFT button to confirm and select the value. Repeat this sequence to reach the desired odometer value and enter WS setup. To adjust WS value, press the RIGHT button and then press the LEFT button to confirm and select the value. Repeat this sequence to reach the desired WS value and exit setup.

### PARTS INSTALLATION LOCATION

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

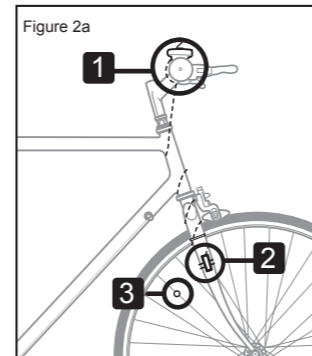
a) Install the mounting bracket as per page 5

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.

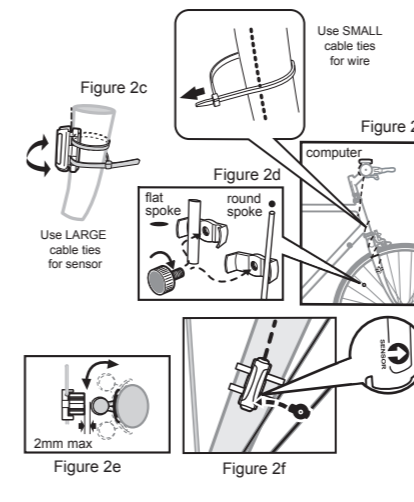
d) Without using tie wraps - position the sensor on the inside face of the right fork and the magnet on a wheel spoke. Position the sensor and magnet in such a way so that the magnet passes over the circle arrow on the sensor as shown in Figures 2c, 2e and 2f.

e) Once you have determined the approximate position of the sensor and magnet - loosely put 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.



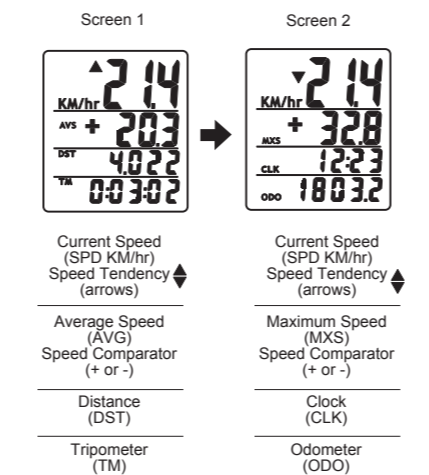
f) Test out the positioning of the sensor and magnet by rotating the front wheel to see if the computer registers a speed value. If no value is registered reposition the sensor and magnet again. Make sure the magnet passes over circle arrow on the speed sensor as shown in Figure 2f. Once you have positioned 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 SMALL cable ties. Make sure that there are no dangling wires.



### COMPUTER DISPLAY AND FUNCTIONS

**DISPLAY:** There are two main screens. Press the RIGHT button to toggle between the two display screens.



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

**SPEED TENDENCY (▲):** An "up arrow" or "down arrow" icon appears on the first row to the left of the current speed. An up arrow indicates you are accelerating. A down arrow indicates you are decelerating.

**AVERAGE SPEED (AVS):** AVS is displayed on the second row. AVS is calculated by dividing TM by DST. To reset AVS, go to the AVS screen then press and hold the LEFT button for 2 seconds. NOTE: TM and DST will also be reset to zero.

**MAXIMUM SPEED (MXS):** Maximum Speed (MXS) is displayed on the second row. Maximum speed is stored in memory and updates only when a higher speed is reached. To reset MXS to zero, go to MXS screen then press and hold the LEFT button for 2 seconds.

**SPEED COMPARATOR:** A "+" or "-" sign appears on the second line, to the right of the SPD icon. A "+" indicates you are traveling faster than your average speed (AVS). A "-" indicates you are riding slower than your average speed.

**TRIPOMETER (DST):** Trip distance (DST) is displayed on the third row. DST is accumulated automatically with speedometer input. To reset DST to zero, go to DST screen (SCAN OFF), press and hold the LEFT button for 2 seconds. NOTE: TM and AVS will also be reset to zero.

**CLOCK (CLK):** A 12/24 hour clock is displayed on the third row. To adjust CLK, ODO and WS see bottom section on page 7.

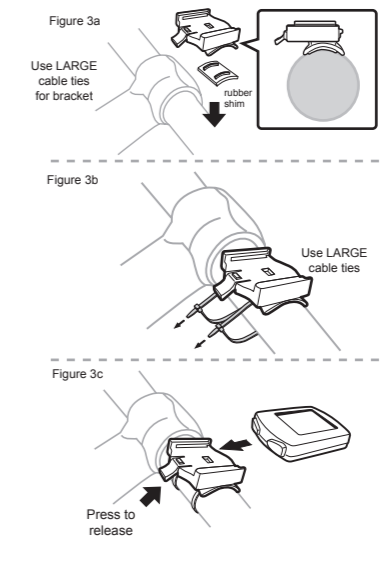
**TRIP TIMER (TM):** Trip Timer (TM) is displayed on the bottom row. Trip Timer is activated automatically with speedometer input (when the wheels are turning). It records only the time spent actually riding. To reset TM to zero, go to TM screen (SCAN OFF), press and hold the LEFT button for 2 seconds. NOTE: DST and AVS will also be reset.

**ODOMETER (ODO):** Total distance traveled (ODO) is displayed on the bottom row. To adjust CLK, ODO and WS see bottom section on page 7

**RESET:** See top section on page 7.

### 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).



**AUTO START/STOP:** The computer will start automatically when your wheels start rotating. In order to conserve the battery the computer will turn off automatically after 5 minutes.

### TROUBLE SHOOTING

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



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