Filzer

dB 4LW Wireless Cycle Computer Owner's Manual

Congratulations on your purchase of the dB4LW wireless cycle computer by FILZER Enterprises, Inc. 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.

Functions

Speedometer (0-99.9 Km/hr or M/hr)
Tripmeter (**DST**) (Up to 999.99 Km or M)
Odometer (**ODO**) (Up to 9999.9 Km or M)
Auto trip timer (**TM**) (9:59:59)
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

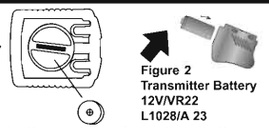


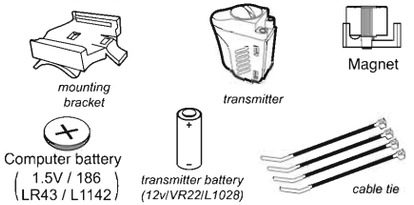
Figure 1
Computer Battery 3V/CR2032

Figure 2
Transmitter Battery 12V/VR22 L1028/A 23

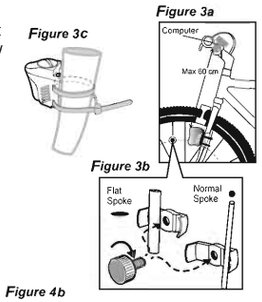
Remove the battery cover from the bottom of the computer using a small coin. Install the 3V battery with positive (+) pole facing the cover as in Fig. 1. If the LCD shows irregular figures, take out the battery and install again. This will clear and restart the computer's microprocessor. Computer Battery 3V/CR2032

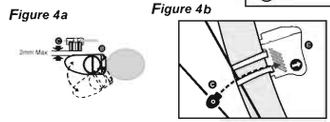
Install the 12V battery in the Transmitter with the positive (+) pole facing the battery cap. Re-install the cap with a small coin and be sure it is tight to prevent moisture leakage. See Figure 2.

Sensor Installation

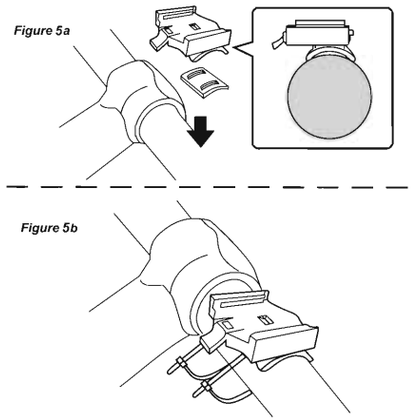


Clamp the magnet on the spoke of front wheel with the screw provided and attach the sensor to the left fork using cable ties as shown in Fig. 3a,3b and 3c. Make sure the arc of magnet intersects the alignment mark on the sensor with 2mm clearance as shown in Fig.4a and 4b.

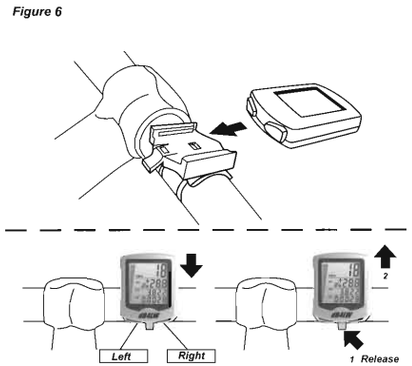




Attach the mounting bracket to the right side of the handlebar by using a screwdriver as shown in Figs. 5a & 5b. Make sure the mounting bracket is clamped tightly and will not slip on the handlebar with the rubber shims provided.



Slide the computer onto the mounting bracket until it snaps firmly into position. Press the release button to remove the computer as shown in Fig. 6



HOW TO MEASURE WHEEL FACTOR

Press and hold LEFT and RIGHT buttons for 4 seconds to access wheel size input mode. **Note all information in computer will be erased.**

The digits on the bottom row will flash. The value you need to enter into the computer is the Wheel Factor. Wheel Factor is the circumference of the wheel in mm. To obtain Wheel Factor:

1) Fast (and not so accurate) Method - use chart provided.
2) Most accurate method:
   a) See figure 8.
   b) Inflate your tires to proper pressure
   c) Put a mark on the outside circumference of your front wheel (use masking tape).
   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 spot on the floor.
   g) Measure the distance between the marks on the floor in mm. This is your wheel factor (i.e. your wheel circumference).

Wheel Diameter d	Wheel Factor c
26 x 1.0	1913
26 x 1.25	1953
26 x 1.4	2005
26 x 1.5	2010
26 x 1.75	2023
26 x 1.95	2050
26 x 2.0	2055
26 x 2.1	2068
26 x 2.3	2170
700 x 18	2070
700 x 20	2086
700 x 23	2096
700 x 25	2105
700 x 28	2136
700 x 30	2170
27 x 1"	2145
27 x 1 1/8"	2155
27 x 1 1/4"	2161

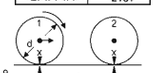


Fig.8 distance in millimeter per one turn

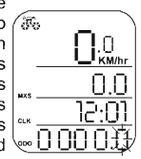
Press the Right Button to adjust the value of the first digit of the Wheel Factor. Once you have entered the correct value press the Left Button to confirm the value and advance to the next digit. Repeat for all four digits.
Press the Left Button to advance to KM/MILE selection.

KM/MILE Selection:

After the wheel size input, the Km/Miles units for distance and speed will flash. Press the RIGHT button to choose between Kilometer (KM) and Mile (M), press the LEFT button to confirm.

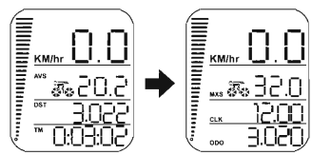
Clock (12H/24H): A 12 or 24-hour digital clock is displayed on the third row of the screen. After Km/mile selection in setup mode, the 12h/24h will flash. Press the RIGHT key to switch between the 12 and 24 hour format. Press the LEFT button to confirm and advance to the clock mode. Press the RIGHT button to advance the hours by one unit (hold RIGHT button for fast advance). Press the LEFT button to confirm hours. Press the RIGHT button to advance the minutes (hold RIGHT button for fast advance). Press LEFT button to confirm minutes and exit setup mode.

ODOMETER SET: To set the odometer (ODO) after battery replacement and wheel size setting, press RIGHT button to advance to ODO mode and then hold LEFT button for 5 seconds until the last digit of the ODO is flashing. To adjust the 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.



DISPLAY:

Current speed, Average Speed (AVS), Tripmeter (DST), Trip Timer (TM) and Speed Comparator (+ or -) are shown in the first display screen. Press the RIGHT button to toggle between the two display screens. Current speed, Maximum Speed (MXS), Clock (CLK), Total Distance / odometer (ODO) and Speed Comparator (+ or -) are shown in the second display screen.



Speed Comparator:
A "+" or "-" sign appears on the second row of the display, to the right of the AVG/MAX speed. A "+" indicates you are traveling faster than your average speed (AVS). A "-" indicates you are riding slower than your average speed.

Speed Tendency: (Acceleration & Deceleration)
A cyclist icon appears on the second row of the display. The wheels turn forward to indicate acceleration, and turn backwards to indicate deceleration.

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

Odometer: (ODO)
Total distance traveled (ODO) and is displayed on the bottom row. To reset ODO, press and hold LEFT and RIGHT buttons for 5 seconds or remove the battery.

Tripmeter: (DST)
Trip distance (DST) is displayed on the third row. Tripmeter is activated automatically with speedometer input. To reset DST to zero press and hold the LEFT button for 2 seconds. NOTE: TM (Trip Time) and AVS (Average Speed) will also be reset at that time.

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 mode, press and hold the LEFT button in the MXS display screen for 2 seconds.

Average Speed: (AVS) Average Speed (AVS) is displayed on the second row. AVS is calculated using the Trip Timer and Tripmeter. To reset AVS, press and hold the LEFT button in the AVS display screen for 2 seconds.

Trip Timer: (TM) Trip Timer (TM) 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 press and hold the LEFT button in the TM display screen for 2 seconds. spent actually riding. To reset TM to zero press and hold the LEFT button in the TM display screen for 2 seconds

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.

PROBLEM:	SOLUTION:
Inaccurate maximum Speed reading	Unknown atmospheric or RF interference. Reset Max speed
No Speedometer reading	Improper magnet/transmitter alignment. Check Magnet/transmitter alignment. Also verify that transmitter battery is good.
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. Also verify that transmitter battery is good.
Display shows irregular figures or blank screen	Re-install computer battery and verify that the computer battery is good.

Filzer

FILZER ENTERPRISES, INC.
Made in China

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