

dBASE

dBASE 4L Cycle Computer Owner's Manual

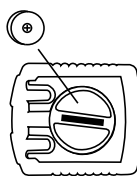


Congratulations on your purchase of the dBASE 4L cycle computer by FILZER Enterprises, Inc. Packed with all the features that a professional rider needs to keep track of during a workout, this computer is a perfect training tool for any cyclist.

Functions:

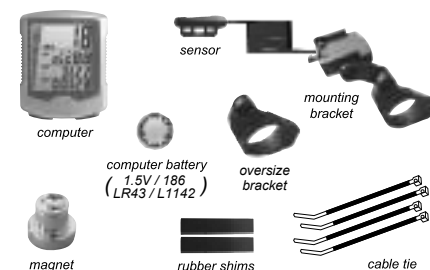
Speedometer (0-99.9 Km/hr or M/hr)
Tripmeter (**DST**) (Up to 999.99 Km or M)
Odometer (**ODO**) (Up to 9999.9 Km or M)
Auto trip timer (**TM**) (9:59:59)
Maximum Speed (**MXS**) (up to 99.9 Km/hr or M/hr)
Digital Clock, 12/24 hour Selectable
Average Speed (**AVS**) (0-99.9 Km/hr or M/hr)
Speed Comparator (+ or -)
Speed Tendency
Odometer Program Function

Figure 1:
Computer
Battery
1.5V / 186
LR43 / L1142

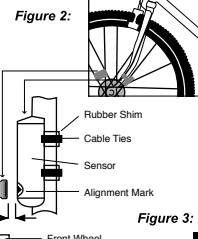


Remove the battery cover from the bottom of the computer using a small coin. Install the 1.5 V battery with positive (+) pole facing the cover as in Fig. 1. If the LCD shows irregular figures, take out the battery and install again. This will clear and restart the computer's microprocessor.

Sensor Installation:



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



Attach the mounting bracket to the right side of the handlebar by using a screwdriver as shown in Figs. 4a & 4b. Make sure the mounting bracket is clamped tightly and will not slip on the handlebar with the rubber shims provided. Adjust the position of the mounting bracket as shown in Fig 5 and fix it by locking the 3 screws tightly.

Figure 4a:

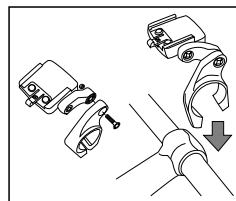


Figure 4b:

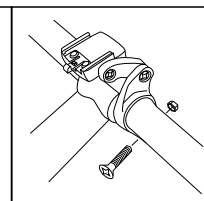
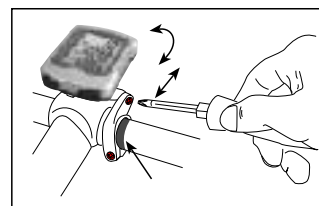


Figure 5:



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

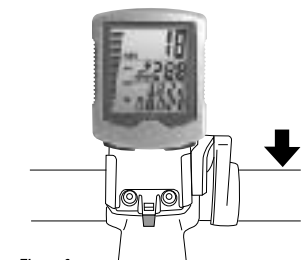
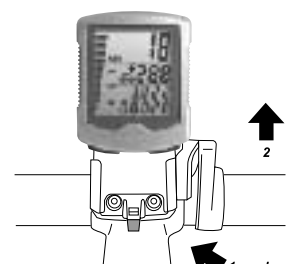


Figure 6:



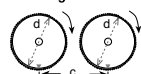
WHEEL SIZE INPUT:

Press and hold LEFT and RIGHT buttons for 2 seconds to access wheel size input mode. Multiply wheel diameter, D (Fig. 7) in millimeters by 3.1416 to determine wheel factor (i.e. circumference), C. Or use the chart above. (NOTE, write down your ODO value before you reset wheel size as the ODO value will be erased). Press the LEFT button to select digit to be input and the RIGHT button to adjust the digit to the desired number (hold for fast advance). Press the LEFT button again to advance to KM/MILE selection. (Note: Removing battery will erase Wheel Size Input and ODO value.)

For convenience you can refer to the chart of wheel diameter size factor inputs.

Wheel Diameter d	Wheel Factor C
20"	1596
22"	1759
24"	1916
26" (650A)	2073
26.5" (Tubular)	2117
26.6" (700x25C)	2124
26.8" (700x28C)	2136
27" (700x32C)	2155
28" (700B)	2237
(w/tire)	
ATB 24"x1.75	1888
ATB 26"x1.4	1995
ATB 26"x1.5	2030
ATB 26"x1.75	2045
ATB 26"x2 (650B)	2099
27"x1	2136
27"x1 1/4	2155

Figure 7:



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.

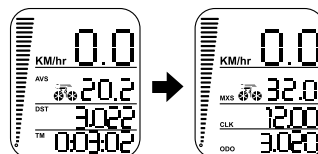
Clock (12H/24H): A 12 or 24-hour digital clock is displayed on the third row of the screen. After Km/mile selection in setup mode, the 12h/24h will flash. Press the RIGHT key to switch between the 12 and 24 hour format. Press the LEFT button to confirm and advance to the clock mode. Press the RIGHT button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

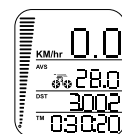
Instantaneous Speed is displayed in the top row. The range of measurement is from 0 to 99KM/hr (0 to 99M/hr) and accuracy is +/-0.5KM/hr (M/hr).

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:

No speedometer reading	Improper magnet / sensor alignment
Slow display response	Temperature outside of operating limits (0-55 degrees C)
Black display	Temperature too hot, or display exposed to direct sunlight too long
Display readout fades	Poor battery contacts or dead battery
No trip distance reading	Check correct sensor / magnet alignment
Display shows irregular figures	Check battery and correct installation
	Take out battery and install again



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Version 1.0

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