

Thank you for your purchase! At MSW® we believe that having essential accessories makes a good ride great—whether you're tracking fitness or just looking for the fastest route to work, we hope this MSW Miniac Wired Cycling Computer CC-100 gives you the data you need to achieve your goal.

▲ WARNING: CYCLING CAN BE DANGEROUS. BICYCLE PRODUCTS SHOULD BE INSTALLED AND SERVICED BY A PROFESSIONAL MECHANIC. NEVER MODIFY YOUR BICYCLE OR ACCESSORIES. READ AND FOLLOW ALL PRODUCT INSTRUCTIONS AND WARNINGS INCLUDING INFORMATION ON THE MANUFACTURER'S WEBSITE. INSPECT YOUR BICYCLE BEFORE EVERY RIDE. ALWAYS WEAR A HELMET.

▲ WARNING: Chemical Burn Hazard. Keep batteries away from children.

This product contains a lithium button/coin cell battery. If a new or used lithium button/coin cell battery is swallowed or enters the body, it can cause severe internal burns and can lead to death in as little as 2 hours. Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

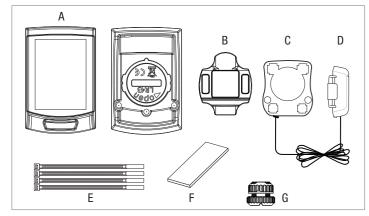
For additional product and safety information go to: www.mswbike.com/safety.

COMPATIBILITY AND INTENDED USE

The MSW wired computer can be used on any bike with wheels from 14" to 700c; from kids bikes to road bikes.

INCLUDED PARTS

Please check that all the following items have been included with the cycle computer before starting.



E 4 nylon ties

F Rubber shim

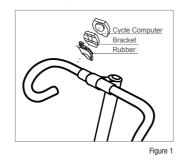
G Wheel magnet

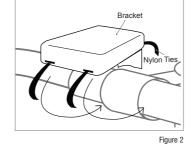
- A CC-100 Series cycle computer
- B Rubber pad
- C Handlebar bracket
- D Sensor

INSTALLATION

MOUNTING THE HANDLEBAR BRACKET

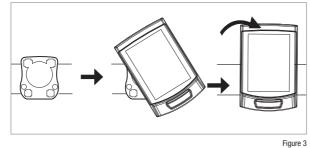
Fit the rubber pad to the back of the handlebar bracket and use the nylon ties to attach it to the bar. The wire will be on the side of the bar facing the seat. Do not fully tighten the nylon ties until you're certain the angle of the computer is correct (figs 1, 2).





MOUNTING THE COMPUTER

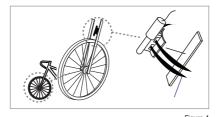
Place the cycle computer on the bracket and secure by turning it clockwise (fig 3).

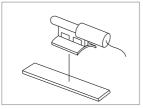


MOUNTING THE SENSOR

To keep your bike tidy and to prevent the wire from snagging on things, you may want to wind the sensor and wire around a cable between your handlebar and fork. The front brake cable often works well for this, but it will depend on your bike. Make sure that once the sensor is mounted, you can rotate your handlebars fully without pulling the wire.

You want to mount the sensor to the fork leg such that there is 15-25mm between the fork leg and spokes. Use the rubber shim to keep the sensor from slipping, and use the nylon ties to affix it to the fork, but do not tighten them fully at this time (figs 4, 5).

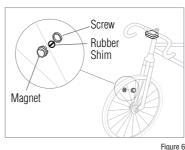




MOUNTING THE WHEEL MAGNET

Secure the wheel magnet on the spoke of the front wheel with screw (fig 6). Make sure the magnet side faces the speed sensor and lines up with the groove on the end of the sensor. The maximum distance between the speed sensor and the magnet on the spoke is 5mm (fig 7). You may need to move the magnet or sensor up or down to align them with the proper gap. Once the sensor and magnet are aligned, fully tighten the nylon ties and wheel magnet screw.

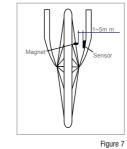
A WARNING: Make sure all components are tight and do not interfere with the rotation of the wheel or handlebars before riding the bicycle.



PROGRAMMING COMPUTER

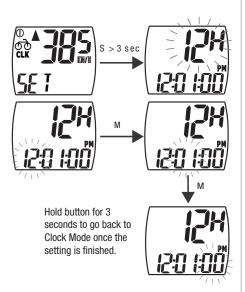
Current speed compared to

average speed (Above/Below)



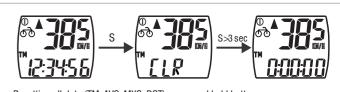
Setting the time: Press and hold button for 3 seconds to access setting function. Press button once to adjust 12/24 hours.

Press button to make time adjustment. Press to adjust time. Press to switch between hours and minutes.



TM MODE (TRIP TIME MODE)

Trip Timer will operate automatically when the bike is in motion



Resetting all data (TM, AVS, MXS, DST): press and hold button for 3 seconds; all data fields except odometer will reset to zero.

CYCLE COMPUTER MAIN DISPLAY & BUTTON FUNCTION Mode Change

PM/AM Indicator

Speed Scale

Press button quickly to change mode:

MODE BUTTON

CLK MODE (Clock Mode) - 12/24 hr and Time switch

TM MODE (Trip Time Mode)

Function Display <

AVS MODE (Average Speed Mode)

MXS MODE (Max Speed Mode) (Except S307W)

ODO MODE (Total Odometer Mode)

AVS MODE (Average Speed Mode)



The average speed from the beginning of the trip.

MXS MODE (Maximum Speed Mode)



the beginning of the trip.

NOTE: If the time or distance is over the max value (29 hr: 59 min: 59 sec or distance: 999.99km), the computer will not be able to measure correct average speed and will display "Err". Once the time and distance value have been reset, the average speed will show normally.





DST MODE (Distance Mode)



beginning of the trip.

ODO MODE

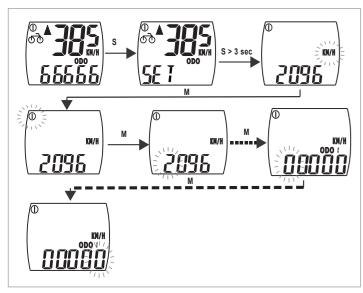


ODO (TOTAL MILEAGE MODE):

Total mileage accumulated from the last time the computer was reset. **NOTE:** Odometer mode will return to zero after replacing the battery.

Changing the speed scale, wheel settings, and ODO:

Under ODO Mode, press and hold button for 3 seconds to go to setting function.



Press button again to select Km/h or Mile/h.

Press button to go to Wheel Settings. Input the correct wheel size by pressing button. You can input wheel sizes (circumference) from 100–2999mm.

See chart for common wheel sizes or instructions for calculating your wheel circumference. Once you've entered your wheel size, press button to proceed to entering mileage. Press and hold the button for 3 seconds to exit the setting function and return to ODO mode.

MAINTENANCE

If the display contrast changes and becomes faint, it's time to replace the battery.

NOTE: Do not expose Miniac wired computer to extremely cold or hot temperatures. Avoid leaving the unit in direct sunlight for extended periods of time.

SENSOR

Check the position of sensor and magnet periodically. Rust or corrosion on the magnet may cause malfunction. The gap between magnet and sensor cannot exceed 5mm.

BRACKET/MAGNET/SENSOR BAND

These items can be wiped with a damp rag or mild soap solution.

BATTERY REPLACEMENT

Unscrew the back cover. The (+) side should be facing up. Gently remove the battery and replace it with a new model LR43 battery.

BATTERY WARNINGS

A coin-cell, lithium-ion battery is used in this device. If these guidelines are not followed, batteries may experience a shortened lifespan or may present a risk of damage to the device, fire, chemical burn, electrolyte leak, and/or injury.

- Do not leave the device exposed to a heat source or in a high-temperature location, such as in the sun in an unattended vehicle. To prevent the possibility of damage, remove the device from the vehicle or store it out of direct sunlight, such as in the glove box
- Do not disassemble, modify, remanufacture, puncture or damage the device or batteries
- Do not immerse or expose the device or batteries to water or other liquids, fire, explosion, or other hazard
- Do not use a sharp object to remove the batteries
- KEEP BATTERIES AWAY FROM CHILDREN
- NEVER PUT BATTERIES IN MOUTH. Swallowing can lead to chemical burns, perforation of soft tissue, and death. Severe burns can occur within two hours of ingestion. Seek medical attention immediately
- Replaceable coin-cell batteries may contain perchlorate material. Special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate
- Only replace batteries with correct replacement batteries. Using other batteries presents a risk of fire or explosion
- Do not operate the device outside of the temperature ranges specified in these instructions
- Contact your local waste disposal department to dispose of batteries in accordance with applicable local laws and regulations

TROUBLESHOOTING

Q1. Display is black or very light:

The battery power may be low. Make sure the battery is installed correctly or replace if necessary.

Q2. Display becomes dark or black:

The unit is too hot. Place the unit in a shaded area and it will return to normal.

Q3. The unit operates slowly or struggles:

The unit is too cold. Warm the unit and it will return to normal.

Q4. Data in display varies enormously:

Check the surroundings for electromagnetic or high energy interference e.g. power lines and move away from the source of interference.

Q5. Data in display shows slowly:

The unit may be too cold. When the temperature rises, the data reading will return to normal.

Q6. Current speed does not appear:

The sensor may be too far from the magnet. Make sure the gap is no wider than 5mm. Make sure the magnet is free of corrosion.

SPECIFICATIONS

Operating Temp	32-104°F (0-40°C)
Storage Temp	14-122°F (-10-50°C)
Battery	3V Lithium CR2032
Battery life (computer)	~1 yr (1 hr/day use)
Weight	14g
Timer Range	29 (hour) : 59 (minute) : 59 (mi)
Current Speed Range	0~99.9km / 0~62.4 mi
Average Speed Range	0~99.9km / 0~62.4 mi
MAX Speed Range	0~99.9km / 0~62.4 mi
(Trip) Distance Range	0~999.99km / 0~624.99 mi
Odometer Range	0~99999km / 0~62499 mi

WHEEL SIZE CHART

CALCULATING WHEEL CIRCUMFERENCE

To get the most accurate speed and distance data, the wheel size must be correct. Mark the tire or position the valve stem at the 6 o'clock position and push the bike until the mark or valve stem is back to 6 o'clock. Then measure the length between two points to get the circumference.



Tire Scale	L (mm)
14 x 1.5"	1020
14 x 1.75	1055
16 x 1.50	1185
16 x 1.75	1195
18 x 1.50	1340
18 x 1.75	1350
20 x 1.75	1515
20 x 1-3/8	1615
22 x 1-3/8	1770
22 x 1-1/2	1785
24 x 1	1753
24 x 3/4 tubular	1785
24 x 1-1/8	1795
24 x 1-1/4	1905
24 x 1.75	1890
24 x 2.00	1925
24 x 2.125	1965
26 x 7/8	1920
26 x 1 (59)	1913
26 x 1 (65)	1952
26 x 1-1/8	1970
26 x 1-3/8	2068
26 x 1-1/2	2100
26 x 1.40	2005
26 x 1.50	2010
26 x 1.75	2023
26 x 1.95	205
26 x 175	2023

Tire Scale	L (mm)
26 x 1.95	2050
26 x 2.00	2055
26 x 2.10	2068
26 x 2.125	2070
26 x 2.35	2083
26 x 3.00	2170
27 x 1	2145
27 x 1-1/8	2155
27 x 1-1/4	2161
27 x 1-3/8	2169
27.5 x 2.25	2128
29 x 2.10	2288
29 x 2.30	2326
650 x 35A	2090
650 x 38A	2125
650 x 38B	2105
700 x 18C	2070
700 x 19C	2080
700 x 20C	2086
700 x 23C	209-6
700 x 28C	2136
700 x 30C	2146
700 x 32C	2155
700c Tubular	2130
700 x 35C	2168
700 x 38C	2180
700 x 40C	2200

WARRANTY PROCESS

If you and your shop think your MSW product is worthy of a warranty inspection, please return the product to the original place of purchase, accompanied by a sales receipt.

 $For complete \ warranty \ information, \ visit \ www.mswbike.com/safety/warranty.$