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 Wireless Cycling Computer CC-200 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.

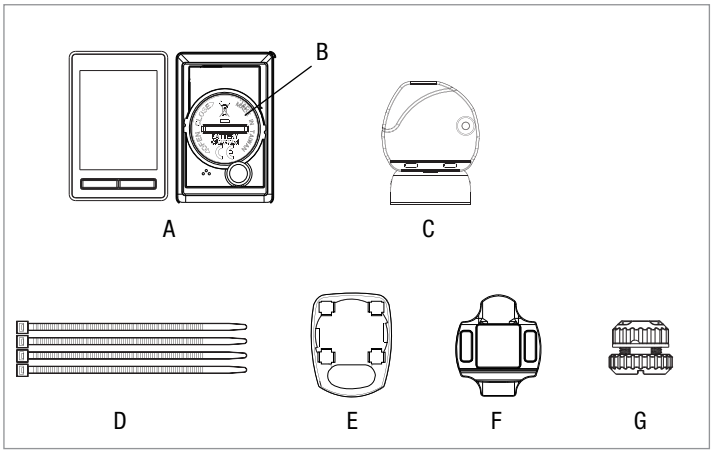
For additional product and safety information go to: www.mswbike.com/safety.

COMPATIBILITY AND INTENDED USE

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

The wireless sensor and computer are not ANT+ or Bluetooth compatible. Sensors from other manufacturers will not work with MSW computers. The computer and sensor are water resistant (splash resistant) but should not be submerged.

INCLUDED PARTS



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

A CC-200 cycle computer
B Battery cover
C Sensor
D 4 nylon zip-ties
E Mounting bracket
F Rubber shim
G Wheel magnet

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. Do not fully tighten the nylon ties until you're certain the angle of the computer is correct. (figs 1, 2).

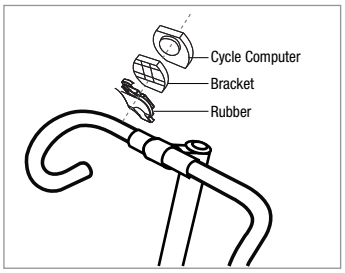


Figure 1

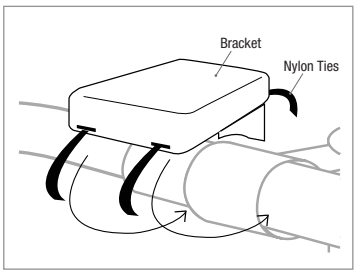


Figure 2

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

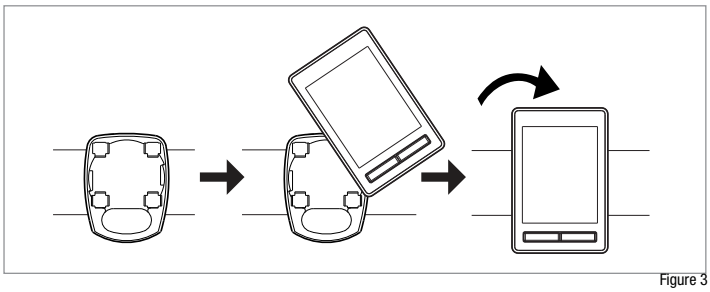


Figure 3

MOUNTING THE SENSOR

Find a suitable point on the fork to mount the sensor.(fig 4). The distance between cycle computer and the speed sensor should be within 60cm (fig 5).

Use the nylon ties to secure the sensor, but don't tighten fully yet.

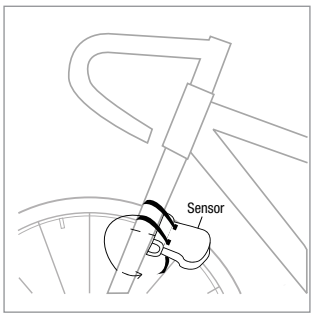


Figure 4

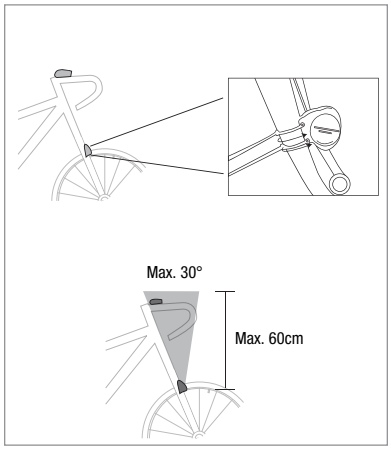


Figure 5

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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 5 mm (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.

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

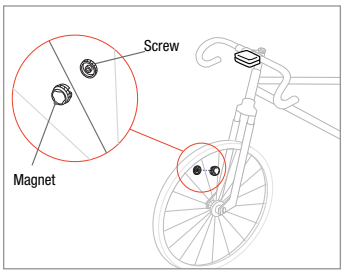


Figure 6

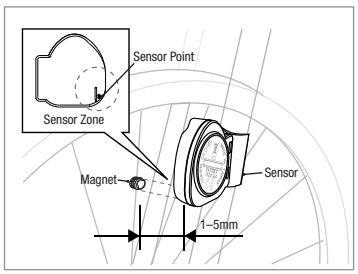
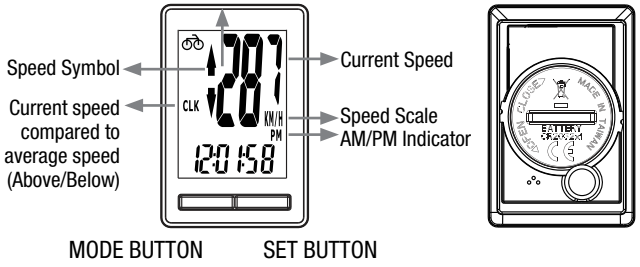


Figure 7

CYCLE COMPUTER MAIN DISPLAY & BUTTON FUNCTION



Mode Change

Press MODE button to change mode:

CLK MODE (Clock Mode)

TM MODE (Trip Time Mode)

AVS MODE (Average Speed Mode)

MXS MODE (Max Speed Mode)

DST MODE (Total Distance Mode)

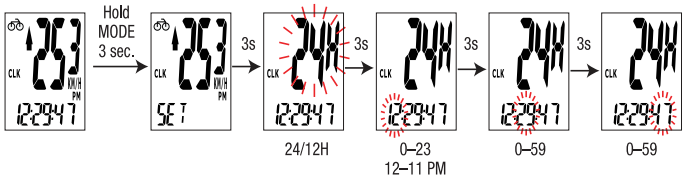
ODO MODE (ODO Mode)

SCAN MODE

CLK MODE (CLOCK MODE)

How to set the time

In clock mode press and hold “SET” button for 3 seconds to access setting function. Press “SET” button once to adjust 12/24 hours.



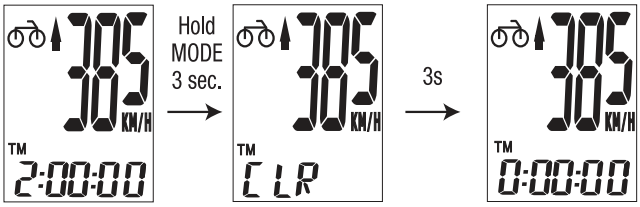
Press “MODE” button to make time adjustment. Press “SET” to adjust time. Press “MODE” to switch between hours and minutes.

Press and hold the “MODE” button for 3 seconds to exit the setting function and return to the CLK mode

TM MODE (TRIP TIME MODE)

NOTE: If trip time runs over 10 hours, the display will return to zero.

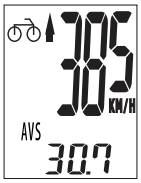
Trip Timer will operate automatically when the bike is in motion. Resetting all data (TM, AVS, MXS, DST): press and hold “SET” button for 3 seconds; all data fields except odometer will reset to zero.



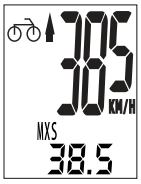
AVS MODE (AVERAGE SPEED MODE)

MXS MODE (MAXIMUM SPEED MODE)

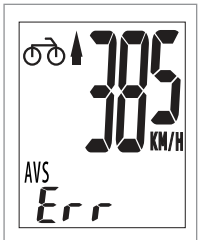
NOTE: If the time or distance is over the max value (29 hr: 59 min: 59 sec or distance: 999.99km), the computer will not be able to measure correct average speed and will display “Err”. Once the time and distance value have been reset, the average speed will show normally.



The average speed from the beginning of the trip.



The maximum speed from the beginning of the trip.



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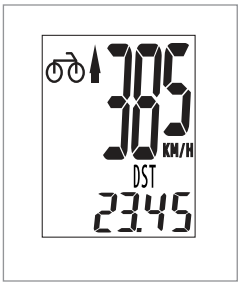
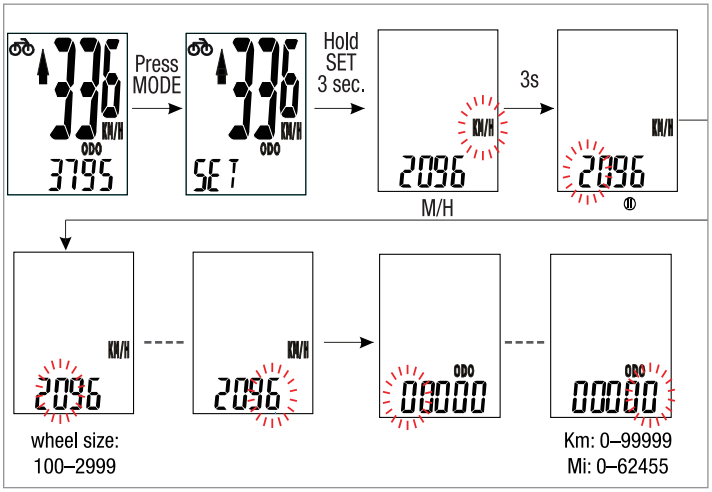
DST MODE (DISTANCE MODE)

The trip distance accumulated from the beginning of the trip.



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 entering mileage: Under ODO Mode, press and hold "SET" button for 3 seconds to go to setting function.

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

Press "MODE" button to go to Wheel Settings. Input the correct wheel size by pressing "SET" 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 MODE button to proceed to entering mileage.

Press and hold the MODE button for 3 seconds to exit the setting function and return to ODO mode.

SCAN MODE

Under SCAN MODE the display will automatically show all modes in a repeating loop every 4 seconds. Once the speed has been detected press any button to stop the SCAN feature.

MAINTENANCE

If the display contrast changes and figures become faint, it's time to replace the battery. Consider changing the computer sensor and transmitter batteries at the same time.

NOTE: Do not expose the computer to extremely cold or hot temperatures i.e. don't leave the unit in direct sunlight for extended periods of the 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

COMPUTER

Unscrew the back cover. The (+) side should be facing up. Gently remove the battery and replace it with a new battery model CR2032.

SENSOR:

Unscrew the back cover. The (+) side should be facing up. Gently remove the battery and replace it with a new battery model CR2032.

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

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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. Make sure the sensor battery is installed correctly or replace if necessary.

IMPORTANT HEALTH NOTICE!

Please read over the following information before using the Cycle Computer.

- Never use the cycle computer in combination with other medical/implanted electronic equipment or devices (especially heart pacemakers, EKG equipment, TENS equipment, cardio-pulmonary machines, or packemakers)
- If you are severely ill or pregnant, please consult your doctor before using the cycle computer
- Keep this device away from children. It contains batteries, which may be swallowed by children
- As with most electronic receiving devices, there can sometimes be interference that causes inaccurate display readouts. Avoid using your cycle computer near common sources of interference. These include high voltage power lines, air conditioning motor units, fluorescent lights, wristwatches, mobile phones, and computers

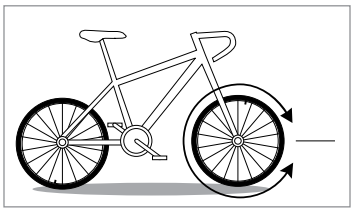
SPECIFICATIONS

Operating Temp	32–104°F (0–40°C)
Storage Temp	14–122°F (-10–50°C)
Battery (computer and sensor)	3V Lithium CR2032
Battery life (computer)	~1 yr (1 hr/day use)
Battery life (sensor)	~6000 mi (10,000km)
Weight	17.7g
Timer Range	29 (hour) : 59 (minute) : 59 (second)
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 1.50"	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
26 x 1.95	2050

Tire Scale	L (mm)
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 2.10	2170
27.5 x 2.30	2202
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	2096
700 x 25C	2105
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.

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