

## 7 Measuring and Display Functions

### SPD

**Current Speed**  
The current speed is displayed on the upper line of the display and updated once a second over a range of 0 (4) to 99 km/h (0 (3) to 65 miles/h).

13 km/h  
95.1 mi/h

### ODO

**Total Distance (Odometer)**  
The total distance is continuously measured, accumulated and displayed on the lower line of the display until the battery wears down or all clear operation is done. The range is 0.0 to 9999.9 km (miles) in 0.1 km (mile) increments. When 10,000 km (miles) is reached, the odometer returns to zero and counting begins anew.

20 km/h  
26.73 mi/h

### DST

**Trip Distance**  
The trip distance from the starting point to the current point is calculated and displayed on the lower line of the display. The range is 0.00 - 999.99 km (miles) in 0.01 km (mile) increments. When 1,000 km (miles) is reached or when the Mode button and Start/Stop button are pressed simultaneously (reset operation), the trip distance returns to zero and counting begins anew.

13 km/h  
95.1 mi/h

### TM

**Elapsed Time**  
The elapsed time is measured from the starting point to the current point, and displayed on the lower line of the display in units of hours, minutes and seconds. The range is 0:00:00 to 9:59:59 in second increments. When 10 hours have elapsed or when the Mode button and Start/Stop button are pressed simultaneously (reset operation), the counter returns to zero and counting begins anew.

23 km/h  
03:74:2 mi

### AVS

**Average Speed**  
The average speed is calculated on the basis of the elapsed time and the trip distance from the starting point to the current point, and displayed on the lower line of the display. It is measured up to 27 hours 46 minutes 39 seconds (99,999 seconds) for the elapsed time or 999.99 km (miles) for the trip distance. If either is exceeded, (E) is displayed and calculation ceases.

21 km/h  
19.3 mi/h

18 km/h  
E

### MXS

**Maximum Speed**  
The maximum speed is stored in memory and displayed on the lower line of the display. It is measured in the range of 0 (4) - 99 km/h (0 (3) - 65 miles/h). The minimum display unit is the same as the current speed.

36 km/h  
39 mi/h

## 8 Auto (Automatic Start/Stop) Function

● The CC-8900 has an automatic start/stop function (Auto function). This Auto function switches the unit to start or stop automatically. You don't need to press the start/stop button each time. When the set button is pressed, and the AT symbol appears on the display screen, the Auto function is switched on.

● **How to switch on/off the Auto Function.**  
Set the main unit in the TM, DST or AVS mode with the mode button. Press the set button. The auto function will switch on/off each time when the set button is pressed. When the Auto function is switched on, the AT symbol appears. \*When the auto function is in use, the elapsed time is measured, excluding stop time and resting time.

## 9 Power Saving Function

When the main unit is left without receiving any input for 60-70 minutes continuously, the power will be automatically saved. Then the main unit will display the clock time only as shown in the Figure. Press either mode button or start/stop button to release power saving mode. (The power saving mode is automatically released when the main unit received signal from the sensor.)

10:04

## 10 Button Function

● **Start/Stop Button**  
Measurement of the trip distance and elapsed time is simultaneously started or stopped when the start/stop button is pressed. During operation the speed scale symbol flashes. If the Automatic Start/Stop Mode is selected, this button will not function.

### Set Button

This button is used for setting the wheel circumference and clock time, for switching on/off the Automatic Start/Stop Function and to clear all preset data and any irregularity. When the Set button is pressed in the stop state in each mode, the following value can be changed.

- In ODO mode ..... Wheel circumference
- In 12-hour clock mode ..... 12-hour clock
- In TM, DST or AVS mode ..... On/off the Automatic Start/Stop

● **Mode Button**  
The display mode mark shifts in the illustrated sequence each time the button is pressed, and the corresponding data is simultaneously displayed on the lower line of the display. If the mode button is held for over 2 seconds, 12-hour clock will be displayed.

**RESET:**  
Select any mode except total distance (ODO), and press the mode button and start/stop button simultaneously. Maximum speed (MXS), Average speed (AVS), Trip distance (DST) and elapsed time (TM) will be zero. (When the two buttons are pressed in ODO mode, the wheel circumference stored in memory will be displayed.)

**ALL CLEAR:**  
When the mode button, start/stop and set buttons are pressed simultaneously, all data stored in memory (including ODO, speed scale, Wheel circumference and clock time) are cleared. All displays illuminate, then the mile/h symbol illuminates. This operation should only be executed after replacing the battery or when irregular display of information occurs due to static electricity, etc. Since all the memories are erased, set the necessary data again according to "5. Main Unit Preparation".



## Trouble Shooting

The following situations do not indicate malfunction of the CYCLOCOMPUTER. Check the following before taking it for repairs.

Trouble	Check Items	Remedy
The entire liquid crystal screen is dark and unusual display is seen where it should not be.	Was it left for a long time under direct sun?	It returns to normal state if left in the shade. No adverse effect on data.
Display response is slow.	Is it at a low temperature under 32°F(0°C)?	It returns to normal state when temperature rises.
No display.	Has the Lithium Battery in the main unit worn out?	Replace the Lithium Battery with a new one.
Incorrect data appear.	Is the sensor plug inserted securely to the sensor jack?	Execute "All Clear" operation.
Current speed does not appear.	Is the sensor marking line of the sensor and the center of magnet matched each other?	Refer to section 4. "Securing the Wire" and connect correctly.
	Is the distance between sensor and magnet too far?	Refer to "Sensor/Magnet Mounting" and re-adjust correctly.
	Are the marking line of the sensor and the center of magnet matched each other?	Refer to "Sensor/Magnet Mounting" and re-adjust correctly.
	Is the wire broken?	Replace the Bracket & Sensor part with a new one.
When the start/stop button is pressed, the unit doesn't activate or stop.	Is the unit in the automatic start/stop mode?	The start/stop button doesn't function in the automatic start/stop mode.

## Maintenance / Precautions

- Do not leave the main unit exposed to direct sunlight when the unit is not in use.
- Do not disassemble the main unit, sensor and magnet.
- Don't pay too much attention to your computer's functions while riding. Keep your eyes on the road and duly consider to traffic safety.
- Check relative position of sensor and magnet periodically.
- For cleaning, use neutral detergent on soft cloth, and wipe off later with dry cloth. Do not apply paint thinner, benzene, or alcohol, to avoid damages on the surface.

### Specifications

Current Speed SPD 0 (4) - 99 km/h (27inch) ± 1 km/h or miles/h under 50 km/h

Total Distance (Odometer) ODO 0.0 - 9999.9 km (mile) ± 0.1 km (mile)

Trip Distance DST 0.00 - 999.99 km (mile) ± 0.01 km (mile)

Elapsed Time TM 0:00:00" - 9:59:59" ± 0.003 %

Maximum Speed MXS 0 (4) - 99 km/h (27inch) ± 1 km/h (miles/h)

Average Speed AVS 0.0 - 99.9 km/h (65.0 miles/h) ± 0.3 km/h (miles/h)

12-hour clock time 0:00" - 11:59" ± 0.003 %

Controller 4-bit 1-chip Microcomputer (Crystal Controlled Oscillator)

Display Liquid Crystal

Sensor No Contact Magnet Sensor

Power Supply Lithium Battery (CR2032) x 1

Operating Temperature Range 0°C - 40°C(32° - 104°F)

Storage Temperature Range -20°C - 50°C(-4°F - 122°F)

Applicable Cycle Sizes 130 cm - 229 cm

Battery Life Approx. 3 years (The life of the first factory-loaded battery may be shorter than this period.)

Dimension / Weight 71 x 34 x 21mm / 31g

The specifications and design are subject to change without notice. This computer converts 1 mile as 1.0/62 km.