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Please note: specifications are subject to change for improvement without notice. @Apr. 2006 by Shimano Inc. XBC IZM Printed in Japan

These service instructions are printed on recycled paper.

SI-7AB0D

SERVICE INSTRUCTIONS MONTAGE-INSTRUCTIES EINBAUANLEITUNG INSTRUCTIONS DE MONTAGE INSTRUCCIONES DE SERVICIO 取扱い説明書 ISTRUZIONI per l'ASSISTENZA MANUAL DE INSTRUÇÕES



Cycle Computer

SC-6500/SC-6500-M SC-6500-MX/SC-6500-T

SHIMANO

English	3	-	24
Dutch	25	-	46
German	47	-	68
French	69	-	90
Spanish	91	-	112
Japanese	113	-	134
Italian	135	-	156
Portuguese	157	-	178

Cycle Computer SC-6500/SC-6500-M SC-6500-MX/SC-6500-T

INDEX

5
6
8
9
10
11
12
13
14
14
15
16
17
24

🛕 Warning

Be careful not to pay excessive attention to the computer data while riding, otherwise you might have an accident.

Specifications

Model No.	SC-6500	SC-6500-MX	SC-6500-T	SC-6500-M
STI lever	ST-6501 ST-5500-C	ST-M951 ST-M950 SL-M951	ST-T400 ST-T300	ST-M952 SL-M952 ST-M750 SL-M750 SL-M570 SL-M570

NOTE;

- * The all clear (AC) button is used to clear the main unit memory.
- * Never disassemble the main unit, as it cannot be reassembled.
- * The main unit is fully waterproofed to withstand wet weather conditions; however, do not deliberately place it into water.
- * Avoid leaving the main unit exposed to extremely hot weather conditions.
- * Handle the main unit carefully, and avoid subjecting it to any shocks.
- * Do not use thinner or other solvents to clean parts such as the main unit and sensor, as they may dissolve the part casings.
- * To clean these parts, wipe them with a cloth soaked in a weak mixture of neutral detergent and water.

1. External appearance





mode 2





3. Display Modes

"Current speed" and "Gear indicator (bar)" are always displayed



(1) Current speed (VEL)



When main display cadence appears on top

Current speed will appear in the sub - display 0.0 (2.0) - 130.0km/h 0.0 (1.2) - 80.0mph (Range) The current speed will appear at the top of the main display.

(2) Gear indicator (bar)



(3) Time display (CLK)

а (; <u>; Э</u>2: 1Ч 24-hours clock

Clock will appear when changing mode 2 to mode 1 and during power saver function.

(4) Trip distance group (TIM, DST, MAX, AVE)

The trip distance group includes trip time (TIM), trip distance (DST) maximum speed during trip (MAX) average speed during trip (AVE). To activate the trip distance group, press the Mode button until "TIM" is displayed, and then press the ST/SP button.

The km/mile symbol will blink. The computer will automatically record data whenever the wheel sensor is activated by wheel rotation. The computer will automatically stop recording data when the wheel stops rotating.

To manually stop functions, press the ST/SP button once.

To reset trip distance group, press the Mode button and ST/SP button simultaneously.

Whole group will reset to zero.

Additionally, while this group is operating the km/mph, rpm and $F\mbox{-}R$ displays will flash.

Trip time (TIM)

0-99:59:59 (h; min; sec)



Trip distance (DST)

0-999.99 (km, mile)



Maximum speed (MAX)

0.0 (2.0) - 130.0km/h



Average speed (AVE)

0.0 (2.0) - 130.0km/h 0.0 (1.2) - 80mph.



Note;

To calculate the average speed, You must travel for more than 10 seconds or more.

An arrow-up displayed indicates that your current speed is faster than your average speed and an arrow-down if the speed is lower.

If the trip time (TIM) exceeds 100 hours or the trip distance (DST) exceeds 1,000 kilometers (1,000 miles), the values for the trip time (TIM) and the trip distance (DST) will return to zero and measurement will then continue. However, "ER" will be displayed as the average speed (AVE). To clear this display, reset it to zero. Note that this will clear all of the values for the measurements made up until that point.

(5) ODO meter (ODO)



(6) Stopwatch (STW) group

STW
DST, STW
AVE, STW
MAX, STW

This group includes stopwatch trip distance average speed and maximum speed.

The stopwatch is activated by pressing ST/SP button. While the stopwatch group is operating the stopwatch (STW) display will flash.

Stopwatch trip distance (DST,STW) records total during STW function.

Stopwatch average speed (AVE, STW) records the average speed during STW function.

Maximum speed (MAX,STW) records the Maximum speed during the stopwatch function.



Press switch B to change mode

Stopwatch (STW) 0.0-90:00 (min, sec)



Stopwatch trip distance (DST, STW) km mile



Note:

The functions of this aroup are only available when stopwatch is activated

If the trip distance mode is also activated simultaneously, it is not possible to view at the distance. However the trip distance. average speed and maximum speed will still be recorded during this time

Stopwatch average speed (AVE,STW) km/h mile/h



Stopwatch maximum speed (MAX, STW) km/h mile/h



(7) Cadence (rpm)



Cadence is calculated from the F-R gear tooth numbers and current speed.

Note;

Cadence always appears during bicycle movement regardless if the crankarms are rotating.

(8) Main display cadence (VEL)



Cadence (rpm) can also be shown in main display. Current speed will move to sub-display.

Cadence on main display

Current speed on sub-display

(9) Lap counter (CNT)



This function is used to count laps, etc. (range 0 - 99) Lap counter is activated by pressing the ST/SP button. To reset the counter to zero, press mode and ST/SP button simultaneously.

To reset all of the TIM group, STW group and lap counter values to zero, press the Mode button and ST/SP button simultaneously for 2 seconds or more.

This is possible regardless of what is currently appearing on the display.

(10) Digital gear number F-R



Gear combinations are displayed when a shift has been made. This will show for approx 4 seconds then original screen will return.

The gear combinations are;

 Front double Front triple inner ... 1 outer ... 2 outer ... 3 Rear Numbers are displayed in order starting from low end. Low1 High 9.etc.

(11) Gear ratio

Gear ratio is also displayed only when a shift has been made. This will show for approx 4 seconds.

Gear ratio formula;

Gear ratio = $\frac{\text{number of teeth front chain wheel}}{\text{number of teeth rear sprocket}} \frac{48}{15} = 3.2$

(12) Pace Arrow

Moves when distance time is operating



(13) Low battery display (LO BAT)

This flashes when the remaining battery power is low. The battery should be replaced with a new one as soon as possible.



(14) Power saver function

When the computer is left without receiving any signal or any button activation the unit will be in a "sleep" state and only the clock will appear on the display. The normal display will return as

soon as a signal is received or a button has been pressed.

Note;

During the stopwatch function the stopwatch will continue to operate even when the power saver function has been activated. The stopwatch will stop automatically after 90minutes have passed.

4. Resetting

This function allows you to reset km/h-mph, tire circumference, gear combination, type of rear derailleur, and time without losing any data (i.e. total distance, trip distance etc)

To re-set go to any display other than CLK on the sub display. Press switch "B" for 5 seconds or more. Then follow instruction section 8 data input.

Switch B 5sec.



5. Viewing data after removing the computer from the bracket mount

The data can still be viewed even when the computer has been removed from the handlebar bracket.



changes in order when switch A is pressed



6. Setting tolerances

VEL 1%	
DST, ODO 0.05%	
CLK 30ppm	(5minutes or less per month)
STW, TIM 50ppm	

7. Installation to the bicycle

Install the levers to the handlebars. Then connect and adjust the brake and shifting cables. Refer to the STI Lever Service Instructions for details on these procedures.

Installing the signal cable (SC-6500)

Install the signal cable as shown



* For the SC-6500-M, SC-6500-MX and SC-6500-T, refer to the Service Instructions included.

(2) Installing the computer

Install the band and the bracket as shown in Figure No2. Tape the signal cable to the handlebars

(3) Slide the computer onto the bracket until it clicks into its place.

as shown in Figure No3.



After this, wrap handlebar with finishing tape around the handlebars to secure both the signal cable and the brake cable





- 1 Km or Miles
- 2. Tire circumference
- 3. No.of chainring teeth

- 4. No.of sprocket teeth
- 5. Type of rear derailleur
- Current time

(1) Measuring the tire circumference

To measure the tire circumference first ensure that the tire is inflated to the standard tire pressure. Make a mark on the tire and the ground at the point where the tire touches the ground, and move the bicycle forward one full revolution of the front wheel while seated on the bicycle, Mark the point where the marking on the tire touches the ground again. Measure the distance between the two points in millimeters. Round the distance to the nearest multiple of 5mm.

Example

•	
2028 - 2032mm · · · · ·	2030mm
2033 - 2037mm · · · ·	2035mm
2038 - 2042mm · · · · ·	2040mm



(2) Checking the number of chainring and sprocket teeth

Check whether the front chainwheel is a double or a triple chainwheel.

Example









Check whether the cassette has 7,8, or 9 sprockets.

Example

12,13,14,15,16,17,19,21,23 9 sprocket 12,13,14,15,16,17,19,21 8 sprocket

(3) Selecting Km or Miles

When switch "AC" (All Clear) is pressed, the display as shown in fig6 appears and the k/h setting starts flashing. Select your choice for Km/h or Mile/h by pressing switch "A".

Once your choice is displayed, press switch "B" continuously for 2 seconds or more to set.

(4) Entering the tire circumference

The display will appear as shown in fig7, Enter the value which was measured previously.





The value will increase by 5mm each time switch "A" is pressed.

The value will change rapidly when switch "A" is pressed continuously.

Once the desired value is displayed, press switch "B" for 2 seconds or more to set.

In the case of tires which have circumference of less than 2050mm, press switch "A" continuously. After the value increases to 2395, it will change to 1700.

Continue pressing switch "A" until the desired value is reached, and then press switch "B" 2 seconds or more to set.

The tire size display can appear as any one of the following 11 displays, in addition to 26×1.75 (2050mm)

Tires with sizes other that these are not displayed

700	18 · · · · · · · 700 x 18C (2070)
700	19 · · · · · · · 700 x 19C (2090)
700	20 · · · · · · · 700 x 20C (2110)
700	25 · · · · · · · 700 x 25C (2115)
700	28 · · · · · · · 700 x 28C (2135)
26	13/8 · · · · · · 26inch x 1 3/8(2075)
26	2.00 · · · · · · 26inch x 2.00 (2085)
26	11/2 · · · · · · 26inch x 1 1/2 (2100)
26	1.00 · · · · · · 26inch x 1 (1970)
26	1.4 · · · · · · 26inch x 1.40 (2005)
26	1.5 · · · · · · 26inch x 1.50 (2050)

(5) Entering the number of chainring and sprocket teeth

The display will then change to that shown in fig8.



Enter the value starting from the outer chainring. "48" will flash on the display. The value will increase by one tooth each time switch "A" is pressed. The value is set by pressing switch "B". If the value is correct, press switch "B" once to accept the setting.

The "--" is displayed once for every five times the value is changed. If this value is set for the outer chainring by switch "B", all gear indicator related screen display will be eliminated.

When the switch "A" is pressed 2 seconds or more, the value will change rapidly. Once the value reaches 60, the value changes to 40 and then continues increasing to 60 again.

After setting the largest chainring the display will change to that shown in fig9.



Enter the number of teeth for the inner chainring (for double front chainwheel) or the middle chainring (for triple front chainwheel).

"38" will flash on the display. This position can be set from 20 - 50 by the same procedure of setting outer chainring. After setting the inner chainring or the middle chainring, the display will change to that shown in fig 10.



When using a double front chainwheel, press switch "A" once so that "--" is displayed, and then press switch "B" once to set, the front chainwheel will then be registered as a double front chainwheel and the display will change to show the rear sprocket settings.

When using a triple front chainwheel, the value can be set from 15 to 34 by the same procedure of setting middle chainring.

Entering the number of rear sprocket teeth

The display will then change to that shown in fig11.

Enter the number of teeth for each sprocket by the same procedure as that used for the chainrings. Press switch "A" to set the desired number of teeth, and then press switch "B" to accept the setting. The value can be set from 11 to 42. Once the setting for smallest sprocket through to the 7th sprocket thave been made, the display will change to that shown in fig12.





If the cassette has seven sprockets, press switch "A" once to change the flashing "21" to "--", and then press switch B once. This will indicate that there is no 8th sprocket, and the operation for entering the number of sprocket teeth will be complete.

If the cassette has 8 sprockets, enter the number of teeth for this position and follow the same procedure as above to enter "--" in the 9th position otherwise enter the number of teeth for the 9th sprocket.

Checking the number of teeth entered

Once the setting of number of sprocket teeth is completed, the display will return to the initial input display. Re check all values by repeatedly pressing switch "B" to

confirm each number of teeth. Press switch "B" once each time and check whether the entered number of teeth are matching with the sprocket

position on the display.

If all values entered are correct, press switch "B" for 2 seconds or more to continue the next entry procedure.



(6) Entering the type of rear derailleur

The display will change to that shown in fig 13. The display will change from "111" to "222" each time switch "A" is pressed.

- 111 · · · · · for Traditional rear derailleur
- 222 · · · · · for Rapid Rise Rear derailleur (reverse spring type)

Press switch "B" for 2 seconds or more to continue the next entry procedure.



(7) Setting the time (24 hour format)

The display will change to that shown in fig 14.

Set the time to one minute later than the current time.

Example

If the time is 10:46:23 · · · · 10:47: - -If the time is 13:59:16 · · · · 14:00: - -

The hours will advance when switch "A" is pressed. If switch "A" is pressed continuously, the hours will advance rapidly. Press switch "B" once to set the hour. The minutes section will then start flashing as shown in Fig 15. Set the minutes in the same procedure as for setting the hours. The clock will then start.





This completes the data entry operations. The display will now return to the normal display mode.

Note; To reset clock

Get a display where CLK appears on the sub - display. Press switch "B" for 5 seconds or more to change the time setting.

Replacing the battery (CR-2032 battery)

Insert the battery so that the "+" side is visible as shown in Fig. 16, and then tighten the battery cap. The battery which is installed at the time of purchase is for monitoring purposes. If the **ICOEXT** low battery indicator appears, replace the battery as soon as possible. Carry out the initialization procedure after the battery has been replaced.



Trouble Shooting

* Speed is not displayed.

- Check that the positions of the speed sensor and magnet are correct.
- Check that the main unit is fixed correctly to the bracket.

* Display does not appear or is faint.

• Poor contact, or battery is depleted. Replace with a new battery.

* Incorrect data is displayed.

- Press the A/C button to re-enter the data.
- * Display is dark.
 - This is because the main unit has become hot and has been affected by long-term exposure to direct sunlight, such as can occur during hot weather.
 - Store the main unit in a cool, shady place so that it can cool down and return to normal.

* Data display movement is slow.

• The computer operating temperature range is -10° C to 50°C. Check that the temperature is not lower than -10° C.

* No. of gears and gear ratios are not displayed.

• Replace the gear number sensor.