SIGMA BIKE COMPUTER
BC 1706 HR

BIKE COMPUTER
TOPLINE

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1.1 INTRODUCTION AND PACKAGING CONTENTS

Introduction
Congratulations on having chosen a bicycle computer from SIGMA. Your new BC 1706 HR will provide you a reliable service in riding your bike for many years to come.

The BC 1706 HR is a state-of-the-art measuring instrument. Please read instructions carefully to become familiar with the functions and usage of this bicycle computer.

SIGMA wishes you an enjoyable time using your BC 1706 HR.

Functions of the BC 1706 HR

- Heart rate
- Digital coded
- Two wireless systems
- Easy setup
- Fast setting mod
- Backup settings
- Large display
- Large backlit
- Digital signal
- Large battery
- Simple operation
- Easy maintenance
- Pulse monitor with transmitter
- Transmitter, magnet, battery door key and mounting bracket
- Fixation accessories

<table>
<thead>
<tr>
<th>Functions</th>
<th>3x</th>
</tr>
</thead>
<tbody>
<tr>
<td>42 mm</td>
<td></td>
</tr>
<tr>
<td>32 mm</td>
<td></td>
</tr>
<tr>
<td>30 mm</td>
<td></td>
</tr>
</tbody>
</table>
1.2 KEY FUNCTIONS/FUNCTIONS TABLE

The key functions

**RESET**
Reset the functions listed below

**MODE 2**
Call forward the functions listed below

**SET**
Setting the various parameters

**MODE 1**
Call forward the functions listed below

The functions

**RESET**
TRIP DIST.
TRIP TIME
AVG. SPEED
AVG. HR
MAX. HR
MAX. KMH
STOPWATCH
TIMER +/-
TRIP +/-

**MODE 2**
KIG. PULSE
AVG. PULSE
MAX. PULSE
CLOCK
STOPWATCH
TIMER +/-
TRIP +/-
ODD BKE 1/2*
TOTAL ODD*
TOTAL TIME*

**SET**
LANGUAGE
WS BKE 1/2
SHOW PULSE YES/NO
TRIP +/-
TIMER +/-
e etc.

**MODE 1**
TRIP DIST.
TRIP TIME
AVG. SPEED
MAX. KMH

Pressing RESET and SET buttons on the same time will switch on/off the display backlight.

1.3 INSTALLATION ON THE BIKE

Installation of Mounting Bracket

1.  
2.  
3.  
4.  

1.3 INSTALLATION ON THE BIKE

5. Installation of Magnet

6. Installation of the transmitter

7. max. 45 cm

8. left side

9. max. 30°

10. max. 45 cm
1.3 INSTALLATION ON THE BIKE

Max. 12 mm

12

Test: Battery

1.4 THE CONNECTION

CONNECTION

- Installation of the BC 1706 HR into the mounting bracket. Zero on speed and pulse display is blinking.
- If needed, press MODE 2 until ECG PULSE is displaying.

- There are 2 possibilities to pair speed and heart rate:

1. Riding, after 20 seconds (max. 5 min.) the receiver has matched with both transmitters, data will be displayed.

2. Turn front wheel until KMH/MPH display has stopped blinking (A).

The chest belt transmit some signals (B) ECG PULSE stops to blinking, values are shown.

-20 sec

A

B
1.5 THE BASIC SETTINGS

- After 5 min. of no transmission, BC 1706 HR changes to sleep mode (Time and Model name shown in the display). Press any button to re-activate the Computer a short pairing will find the transmitter.
- Removing the BC 1706 HR from the mounting will cut off the connection.

- If TOO MANY SIGNALS are shown: Extend the distance of all transmitters and press any button to continue. Pairing starts again.

DISPLAY CHANGE

- Press MODE1 button until the desired function is displayed (TRIP DIST, TRIP TIME, AVG. SPEED, MAX. SPEED).

- Press MODE 2 button until the desired function is displayed (ECG PULSE, AVG. PULSE, MAX. PULSE, CLOCK, STOPWATCH, TIMER, TRIP UP/DOWN, ODO, BIKE 1/2.*, TOTAL ODO*, TIME BIKE 1/2.*, TOTAL TIME*)

* not whilst moving

DISPLAY ILLUMINATION

- The lighting function is switched on/off when you press the SET and RESET button at the same time.

- Display quickly shows LIGHT ON/LIGHT OFF.

- By pressing any button display will be illuminated, with the next pressure you can switch to the next function. Protect the battery by avoiding unnecessary illumination!

1.5 THE BASIC SETTINGS

BASIC SETTINGS

- Press SET for 3 sec to make the following basic settings:

- Language, change between km/h/mph, wheel size 1/2, time, show pulse, km-bike 1/2, time-bike 1/2 and display contrast. After changing the battery only the time and display contrast have to be entered.

1. ASSEMBLY 2nd WHEEL

Switching between WHEEL 1 and WHEEL 2 is automatic.
1.5 THE BASIC SETTINGS

1. Optional bike 2
   Art.-Code: 00405

   • You have to take the (optional) transmitter bike 2 (red button).
   • It is no longer possible to change by making an entry.
   • There is only one heart rate transmitter.

2. LANGUAGE ENTRY
   • Press MODE 1 until LANGUAGE is displayed.
   • Press the SET button briefly.

   • The display flashes. Set the desired language using the MODE 1 button and.
   • Confirm by pressing SET.

3. KMH / MPH ENTRY
   • Press MODE 1 to change between KMH/MPH entry.
   • Press SET briefly.

   • KMH or MPH is displayed and flashes.
   • Select MPH or KMH using MODE 1.

   • Confirm by pressing the SET button.

   • SET OK in Display confirm the modification.
1.5 THE BASIC SETTINGS

4. WHEEL SIZE BIKE 1 ENTRY

- Press MODE 1 to change to BIKE 1.
- Press SET briefly.

- Wheel size is displayed and the first digits blink.
- Select values by pressing MODE 2 (+) or RESET (-).

- Press MODE 1 button to change to the next digit, enter the values as shown above.

- Bike 1 is always the bike with the transmitter Bike 1 (grey plate).

- Determine the correct value for your wheel size from Table C "Wheel Size Chart" (refer to next page). Enter this value.

- Enter the value with RESET/MODE 2 button.
- Alternatively: calculate/determine WS (Tab. A or Tab. B).

- Alter the last digit, confirm by pressing SET.

WHEEL SIZE CHART

A

B

km/h:
WS = mm x 3.14
mph:
WS = mm x 3.14

km/h:
WS = mm
mph:
WS = mm
1.5 THE BASIC SETTINGS

**ETRTO**

<table>
<thead>
<tr>
<th>ETRTO</th>
<th>161.17/2</th>
<th>KMH/MPH</th>
</tr>
</thead>
<tbody>
<tr>
<td>47.305</td>
<td>16x1.75x2</td>
<td>12.7/2</td>
</tr>
<tr>
<td>47.406</td>
<td>20x1.75x2</td>
<td>15.92</td>
</tr>
<tr>
<td>37.400</td>
<td>24x1.5</td>
<td>19.48</td>
</tr>
<tr>
<td>47.507</td>
<td>24x1.75x2</td>
<td>19.07</td>
</tr>
<tr>
<td>23.571</td>
<td>26x1</td>
<td>19.73</td>
</tr>
<tr>
<td>40.568</td>
<td>28x1.5</td>
<td>20.96</td>
</tr>
<tr>
<td>44.559</td>
<td>28x1.6</td>
<td>20.51</td>
</tr>
<tr>
<td>47.559</td>
<td>28x1.75x2</td>
<td>20.70</td>
</tr>
<tr>
<td>56.569</td>
<td>28x1.9</td>
<td>20.89</td>
</tr>
<tr>
<td>32.559</td>
<td>28x2.00</td>
<td>21.14</td>
</tr>
<tr>
<td>37.590</td>
<td>26x1.3/8</td>
<td>21.05</td>
</tr>
<tr>
<td>37.584</td>
<td>26x1.3/8x1.1/2</td>
<td>20.86</td>
</tr>
<tr>
<td>20.571</td>
<td>26x1.3/4</td>
<td>19.54</td>
</tr>
</tbody>
</table>

**ETRTO**

<table>
<thead>
<tr>
<th>ETRTO</th>
<th>161.17/2</th>
<th>KMH/MPH</th>
</tr>
</thead>
<tbody>
<tr>
<td>32.630</td>
<td>27x1 1/4</td>
<td>21.93</td>
</tr>
<tr>
<td>26.630</td>
<td>27x1 1/4 Fiby</td>
<td>21.74</td>
</tr>
<tr>
<td>40.622</td>
<td>28x1.5</td>
<td>22.24</td>
</tr>
<tr>
<td>47.622</td>
<td>28x1.75</td>
<td>22.68</td>
</tr>
<tr>
<td>40.635</td>
<td>28x1 1/2</td>
<td>22.65</td>
</tr>
<tr>
<td>37.622</td>
<td>28x1.3/8x1 5/8</td>
<td>22.05</td>
</tr>
<tr>
<td>18.622</td>
<td>720x1BC</td>
<td>21.02</td>
</tr>
<tr>
<td>20.622</td>
<td>720x20C</td>
<td>21.14</td>
</tr>
<tr>
<td>23.622</td>
<td>720x23C</td>
<td>21.23</td>
</tr>
<tr>
<td>25.622</td>
<td>720x25C</td>
<td>21.46</td>
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<td>28.622</td>
<td>720x28C</td>
<td>21.48</td>
</tr>
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<td>32.622</td>
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<td>21.74</td>
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<td>37.622</td>
<td>720x35C</td>
<td>22.25</td>
</tr>
<tr>
<td>40.622</td>
<td>720x40C</td>
<td>22.94</td>
</tr>
</tbody>
</table>

- Bike 2 is always the bike with the speed transmitters labeled bike 2 (optional).

6. TIME ENTRY

(kmh = 24 h / mph = 12 h)

- Press MODE1 until CLOCK is displayed.
- Press the SET button briefly.

5. WHEEL SIZE BIKE 2

- Press MODE1 to change to BIKE 2.
- Press SET button briefly.

- The entry flashes.
- Set the hours with the RESET/MODE2 button.

- First digit flashes.
- Entry as for WHEEL 1: Select values by pressing RESET/MODE2, move to the next digit by pressing MODE1 etc.
- Change to the minute entry by pressing MODE1.
- Set the minutes with the RESET/MODE2 button.
1.5 THE BASIC SETTINGS

- Confirm by pressing the SET button.

7. HEART RATE DISPLAY

- Press MODE 1 button until SHOW PULSE is displayed.
- Press SET briefly.

- Entry shows the current setting.
- Select YES or NO by pressing MODE1, confirm by pressing SET.
- YES, if you wear the chest belt transmitter.

- Selecting NO, the ECG PULSE, AVG PULSE and MAX PULSE functions will not be displayed and there will be no pairing.
- Confirm by pressing the SET button.

- SET OK in Display confirm the modification.

TOTAL DATA ENTRY
8. KM-BIKE 1/2
9. TIME-BIKE 1/2

- You can transfer the total Km, e.g. when purchasing this device, from another bike computer here.
- Press SET briefly.

- The first digit is flashing.

- Proceed like for the wheel size:
  Select value by pressing RESET/MODE2, move to the next digit by pressing MODE1 etc.

- Press MODE 1 button for moving to the next digit.

- After entry of the last digit confirm by pressing SET.
1.5 THE BASIC SETTINGS

10. CONTRAST
- Press MODE1 until CONTRAST is displayed.
- Press SET briefly.

1.6 SET STOPWATCH

- Hold down RESET > 3 sec to reset the display to zero.

1.6 SET STOPWATCH

- The entry flashes.
- Set the value by pressing the RESET/MODE2 button (1=weak 3=strong).

- Confirm by pressing the SET button.
- To leave the setting menu please hold the SET-button for 3 seconds.

1.7 SET TIMER (+/-)

- Press MODE 2 until TIMER +/- is displayed.
- Hold down the SET button.

- Display flashes.
- Press MODE1 to count upwards (+) or downwards (-).
- Confirm by pressing the SET button.
1.8 SET KM COUNTER (+/-)

- Press MODE 2 until TRIP UP/DOWN is displayed.
- Hold down the SET button.

2 sec

- Display flashes.
- Press MODE1 to count upwards (+) or downwards (-).

MODE1

- Confirm by pressing the SET button.
- Enter the starting time for TIMER +/- by pressing RESET/MODE2.

RESET M2

- Press MODE1 to jump to the next digit:
  - Set the value by pressing the RESET/MODE2 button.
  - Confirm by pressing the SET button.

MODE1

2.1 COMPARE SPEED

Speed/Average speed
- If the speed is nearly the same is displayed.

2.1 COMPARE SPEED

- After 2 sec only the displayed function is reset to 0.

2.2 DELETE

RESET DISPLAY
- Press MODE1/2 until the desired function is displayed.
- Hold down the RESET button.

- Display flashes.

> 2 sec
2.2 DELETE

- Press RESET for longer than 4 sec to reset the displays for AVG. PULSE, MAX. PULSE, TRIP DIST., TRIP TIME, AVG.SPEED, MAX. SPEED to zero.

3. TECHNICAL DATA

<table>
<thead>
<tr>
<th>Default</th>
<th>Max</th>
<th>Min</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed</td>
<td>0.0</td>
<td>199.5*</td>
<td>kmh/mph</td>
</tr>
<tr>
<td>TRIP DIST</td>
<td>0.00</td>
<td>9,999.9</td>
<td>km/mi</td>
</tr>
<tr>
<td>TRIP TIME</td>
<td>00:00:00</td>
<td>999:59</td>
<td>h:mm:ss</td>
</tr>
<tr>
<td>EXG PULSE</td>
<td>0</td>
<td>240</td>
<td>40 lpm</td>
</tr>
<tr>
<td>STOPWATCH</td>
<td>00:00:00</td>
<td>999:59</td>
<td>mm:ss, 1/10</td>
</tr>
<tr>
<td>TIMER +/-</td>
<td>00:00:00</td>
<td>9.59:59</td>
<td>- mm:ss</td>
</tr>
<tr>
<td>TRIP +/-</td>
<td>0.00</td>
<td>999.99</td>
<td>-99.99</td>
</tr>
<tr>
<td>TOTAL ODO 1/2</td>
<td>0</td>
<td>99.999</td>
<td>km/mi</td>
</tr>
<tr>
<td>TOTAL TIME 1/2</td>
<td>0.00</td>
<td>9.999</td>
<td>h:mm hh:mm hh:mm h hh</td>
</tr>
<tr>
<td>WHEEL SIZE 1/2</td>
<td>2.155</td>
<td>3.999</td>
<td>1.000</td>
</tr>
</tbody>
</table>

*Depends on the presetted wheel size

3.1 GENERAL WARNINGS

Battery:
1 lithium button cell 2032, 3V.
In case Computer battery is weak, battery symbol and "LOW" will be displayed.

Computer: 1 x CR 2032, 3V
Speed transmitter: 1 x CR 2032, 3V
Chest belt: 1 x CR 2032, 3V

Batteries can be returned after use.

3.2 WARRANTY

We are liable to our contracting partners for defects as defined by law. Batteries are excluded from the guarantee.
3.3 TROUBLE SHOOTING

KMH no display
- Old mounting bracket with radio transfer (ROS) used?
- Computer correctly slotted into mounting bracket?
- Contacts checked for oxidation/corrosion?
- Distance between magnet and sensor (max. 12 mm)
- Checked whether magnet is magnetised?

No display of heart rate
- In setting SHOW PULSE = NO
- Refer to no display of KMH
- Transmitter chestbelt moistened, before use?

No display (screen blank)
- Check battery
- Battery inserted correctly [plus and minus]?
- Battery contact ok? [bend carefully]

KMH wrong display
- 2 magnets installed?
- Magnet positioned correctly?
- Wheel size set wrongly?
- Correct handlebar installed after bike changes?

Display black/changes slowly
- Temperature too high (>30°C) or too low (<0°C)

No pairing
- Check distance between transmitter/magnet
- Transmitter battery discharged
- Activate the Computer by pressing any button
- Check distance between transmitter/receiver
- If using a hub dynamo, change the position of the transmitter

Too many signals are shown:
- Extend distance between transmitters and press any button

3.4 CHANGE BATTERY

Transmitter:
- Open top cover with tool.
- Take the battery out of the top cover!
- Pay attention to polarity!

Note:
____________________________________________________

Computer:
- Open the top cover with a coin
- WHEEL SIZE BIKE 1/2, TRIP TIME BIKE 1/2 and TOTAL ODO BIKE 1/2, LANGUAGE, KMH/MPH remain saved even when the battery is changed.
- Observe direction of plus and minus poles; when the compartment is open you must see the PLUS side of the battery!
- If sealing ring is loose, re-insert it
- After battery change you have to re-enter clock and contrast again.

Pay attention to the polarity!

Chestbelt:
- Open the top cover with a coin
- Pay attention to the polarity!

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