Sigma 07162

Sigma BC 7.16 ATS Wireless Bike Computer User Manual

Model: 07162

INTRODUCTION

The Sigma BC 7.16 ATS is a wireless bicycle computer designed to provide essential cycling data. It features a large, easy-to-read display and offers basic functions including speed, distance, ride time, and average speed. Its simple installation and user-friendly interface make it suitable for various cycling enthusiasts.

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your BC 7.16 ATS wireless bike computer.

PACKAGE CONTENTS

Before you begin, please ensure all components are present:

- BC 7.16 ATS bicycle computer unit
- ATS transmitter (speed sensor)
- Wireless mount (for handlebar or stem)
- Power magnet (for spoke)
- O-rings (2) for mounting
- User Manual (this document)

SETUP AND INSTALLATION

1. Installing the Computer Mount

The wireless mount can be installed on either the handlebar or the stem.

1. Position the mount on your desired location (handlebar or stem).
2. Secure the mount using the provided O-rings. Ensure it is firmly attached and does not rotate.
3. Slide the BC 7.16 ATS computer unit onto the mount until it clicks into place.

Image: The Sigma BC 7.16 ATS bike computer display, showing current speed (18.4 KMH) and average speed (15.13), with a wireless signal icon. This image illustrates the main unit and its display.

2. Installing the Speed Sensor (ATS Transmitter)

The speed sensor transmits data wirelessly to the computer unit.

1. Attach the ATS transmitter to the front fork, on the same side as the computer mount, using the provided O-rings or zip ties (not included).
2. Ensure the sensor is positioned so that the magnet on the spoke passes within 5mm of the marked area on the sensor.

3. Installing the Power Magnet

The power magnet triggers the speed sensor with each wheel rotation.

1. Attach the power magnet to a spoke on the front wheel.
2. Adjust the magnet's position so it aligns with the speed sensor and passes within 5mm of it during wheel rotation.

4. Initial Setup and Wheel Size Configuration

Accurate speed and distance readings depend on correct wheel size input.

1. Press and hold the SET button (usually on the back or bottom of the unit) to enter setup mode.

2. Use the MODE button to navigate through settings.
3. Locate the wheel size setting. Refer to your tire's sidewall for its ETRTO or ISO designation (e.g., 700x23C, 26x1.95).
4. Enter the corresponding wheel circumference in millimeters (mm). A common chart for wheel circumferences is provided below for reference. If your exact size is not listed, measure your wheel's circumference manually.
5. Confirm the setting by pressing SET again.

Common Wheel Circumferences (Approximate)

Tire Size	Circumference (mm)
700x23C	2096
700x25C	2105
26x1.95	2050
29x2.1	2288

Note: For precise measurement, inflate your tire to riding pressure, mark a spot on the tire and ground, roll the bike one full revolution, and measure the distance.

OPERATING INSTRUCTIONS

The BC 7.16 ATS features a simple two-button operation (MODE and SET).

Functions Overview:

- **Current Speed:** Displays your real-time speed.
- **Average Speed:** Shows the average speed for the current ride.
- **Maximum Speed:** Records the highest speed achieved during the current ride.
- **Trip Distance:** Measures the distance covered in the current ride.
- **Total Distance:** Accumulates the total distance ridden (odometer).
- **Ride Time:** Tracks the duration of the current ride.
- **Total Ride Time:** Accumulates the total time ridden.
- **Clock:** Displays the current time.

Navigating Functions:

Press the **MODE** button to cycle through the various functions displayed on the screen.

Resetting Trip Data:

To reset trip-specific data (Current Speed, Average Speed, Maximum Speed, Trip Distance, Ride Time):

1. Navigate to any trip-specific function (e.g., Trip Distance).
2. Press and hold the **SET** button until the values reset to zero.

Note: Total Distance and Total Ride Time are cumulative and cannot be reset through this method.

Automatic Start/Stop:

The BC 7.16 ATS features an automatic start/stop function. The computer will automatically begin recording data when it detects wheel movement and pause when movement stops. This conserves battery

life and simplifies operation.

MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your Sigma BC 7.16 ATS.

- **Cleaning:** Wipe the computer unit and sensor with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Water Resistance:** The unit has an IP54 international protection rating, meaning it is protected from dust and splashing water. It is not designed for submersion. Avoid high-pressure washing directly on the unit.
- **Battery Replacement:** When the display becomes dim or erratic, it's time to replace the battery. The computer uses a standard coin cell battery (e.g., CR2032). Carefully open the battery compartment on the back of the unit, replace the battery, and ensure the seal is properly seated before closing.
- **Sensor/Magnet Alignment:** Periodically check that the speed sensor and magnet are correctly aligned (within 5mm) and securely fastened. Vibrations from riding can sometimes cause them to shift.
- **Storage:** If storing the bike computer for an extended period, consider removing the battery to prevent leakage. Store in a cool, dry place.

TROUBLESHOOTING

Here are solutions to common issues you might encounter:

- **No Speed/Distance Display:**
  - Check battery in both the computer unit and the ATS transmitter. Replace if necessary.
  - Ensure the speed sensor and magnet are correctly aligned and within 5mm of each other.
  - Verify the computer unit is securely seated in its mount.
  - Confirm the wheel circumference setting is correct.

- **Inaccurate Readings:**
  - Re-check the wheel circumference setting. Even a small error can lead to significant inaccuracies over distance.
  - Ensure the magnet passes cleanly past the sensor without obstruction.
  - Interference from other electronic devices or strong magnetic fields can sometimes affect wireless signals. Try moving away from such sources.

- **Display is Dim or Blank:**
  - Replace the battery in the computer unit.
  - Ensure the battery is inserted with the correct polarity.

- **Unit Not Responding to Buttons:**
  - Try removing and reinserting the battery to perform a soft reset.
  - Ensure buttons are not stuck or obstructed.

SPECIFICATIONS

Feature	Detail

Feature	Detail
Model Number	07162
Connectivity Technology	ATS (Analog Transmission System) Wireless
Display Type	LCD
Screen Size	27 Millimeters
Functions	7 (Current Speed, Average Speed, Max Speed, Trip Distance, Total Distance, Ride Time, Total Ride Time, Clock)
Battery Life	Up to 100 Hours
Battery Type	Lithium Metal (CR2032)
International Protection Rating	IP54 (Dust protected, protected from splashing water)
Mounting Type	Handlebar Mount and Stem Mount
Item Weight	0.04 Pounds (approx. 18 grams)
Color	Black

WARRANTY AND SUPPORT

Specific warranty details for the Sigma BC 7.16 ATS Wireless Bike Computer are typically provided with the product packaging or on the official Sigma website. Please refer to the documentation included with your purchase for the most accurate and up-to-date warranty information.

For technical support, replacement parts, or further assistance, please visit the official Sigma website or contact their customer service department. Contact information can usually be found on the manufacturer's website or in the product's original packaging.