CooSpo BK467

COOSPO Cadence & Speed Sensor User Manual

Model: BK467
Brand: CooSpo

1. Introduction

The COOSPO Cadence & Speed Sensor (Model BK467) is a versatile device designed to track real-time cycling cadence or speed data. It utilizes both Bluetooth and ANT+ protocols for broad compatibility with various cycling computers and smartphone applications. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance of your sensor.



Figure 1: COOSPO Cadence & Speed Sensor (Model BK467)

2. What's in the Box

Upon opening the package, verify that all components are present:

- COOSPO Cadence & Speed Sensor (BK467)
- Rubber Bands (various sizes for mounting)
- Rubber Mounting Pads (flat and concave)
- CR2032 Battery (pre-installed or included separately)
- User Manual



Figure 2: Package contents including the sensor, rubber bands, and user manual.

3. Setup Guide

3.1. Battery Installation and Mode Switching

The sensor operates in two modes: Cadence Mode and Speed Mode. The mode is determined by the orientation of the battery upon reinstallation. A blue LED indicates Cadence Mode, and a red LED indicates Speed Mode.

1. Unpack the product and locate the sensor.
2. Carefully open the battery cover using a coin or similar tool.
3. Remove the insulating sheet if present, or remove and reinsert the CR2032 battery.
4. Observe the LED indicator:
    - A **blue LED flash** indicates the sensor is in **Cadence Mode**.
    - A **red LED flash** indicates the sensor is in **Speed Mode**.
5. To switch modes, simply remove the battery and reinsert it. The sensor will toggle between Cadence and Speed modes with

each reinstallation.

6. Close the battery cover securely.



Figure 3: Battery reinstallation to switch between Cadence (blue LED) and Speed (red LED) modes.



Figure 4: Visual guide for mode switching by reinstalling the battery.

3.2. Mounting the Sensor

Ensure the sensor is in the desired mode (Cadence or Speed) before mounting.

3.2.1. Cadence Mode Mounting

For cadence tracking, mount the sensor on the inside of your left crank arm using the provided rubber pad and bands. Ensure it is securely fastened and does not interfere with pedaling or chain movement.

3.2.2. Speed Mode Mounting

For speed tracking, mount the sensor on the front wheel hub using the provided rubber pad and bands. Ensure it is securely fastened and does not interfere with wheel rotation or spokes.



Figure 5: Mounting the sensor for Cadence Mode (on crank) and Speed Mode (on wheel hub).

4. Operation

4.1. Connecting to Devices and Applications

The COOSPO BK467 sensor supports both Bluetooth and ANT+ connectivity. It is compatible with most fitness applications and GPS bike computers, including Zwift, OpenRider, RideWithGPS, Cyclemeter, Peloton, Rouvy, Coosporide, and COOSPO BC107/BC200/CS300/CS500.

4.1.1. Smartphone App Connection

When connecting to a smartphone application, ensure Bluetooth is enabled on your phone.**Important:** You must search for the sensor directly within the application itself, not through your phone's system Bluetooth settings. The sensor needs to be active (wake it up by moving the crank or wheel) for it to be discoverable.

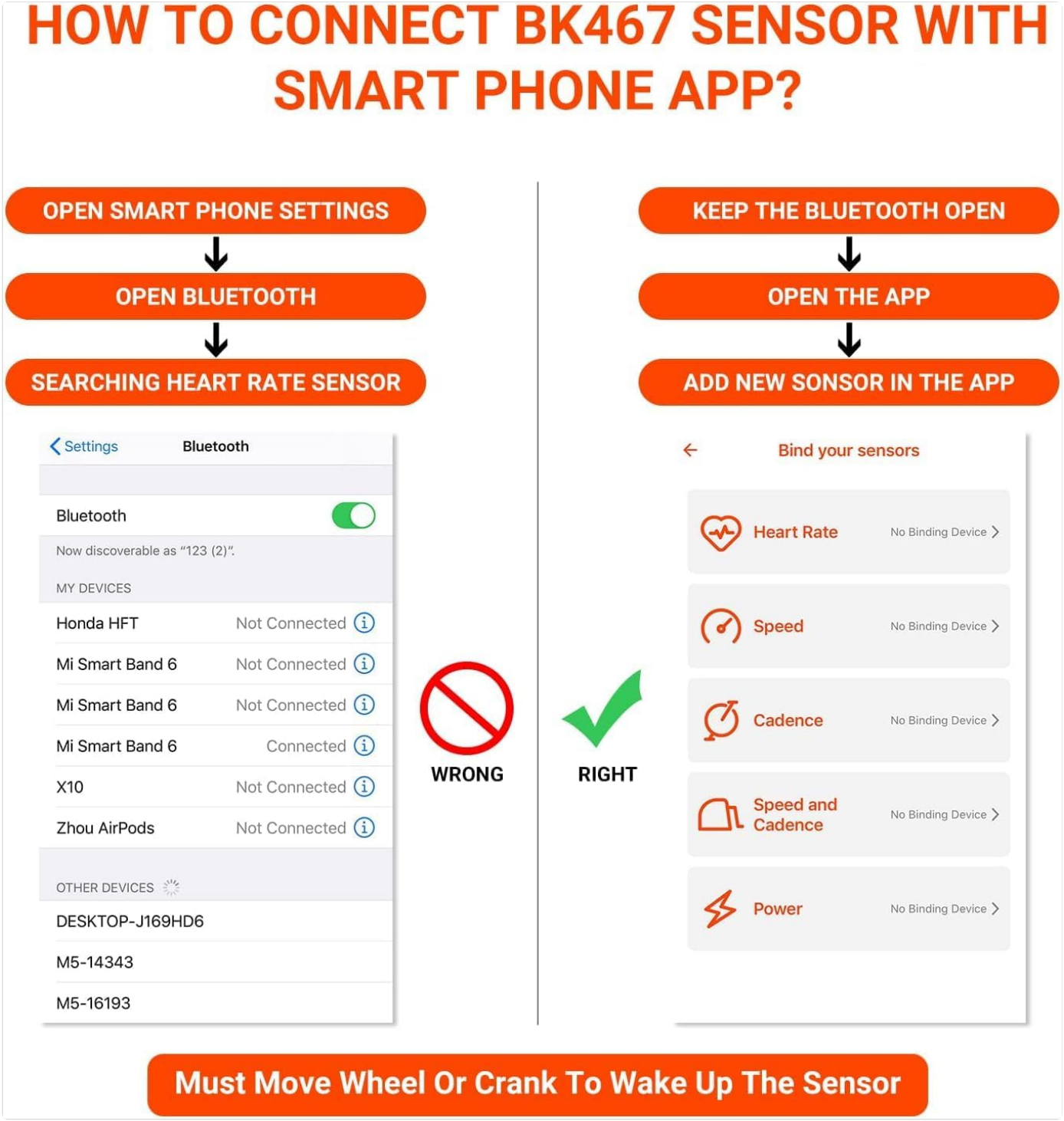


Figure 6: Correct method for connecting the sensor to a smartphone application.

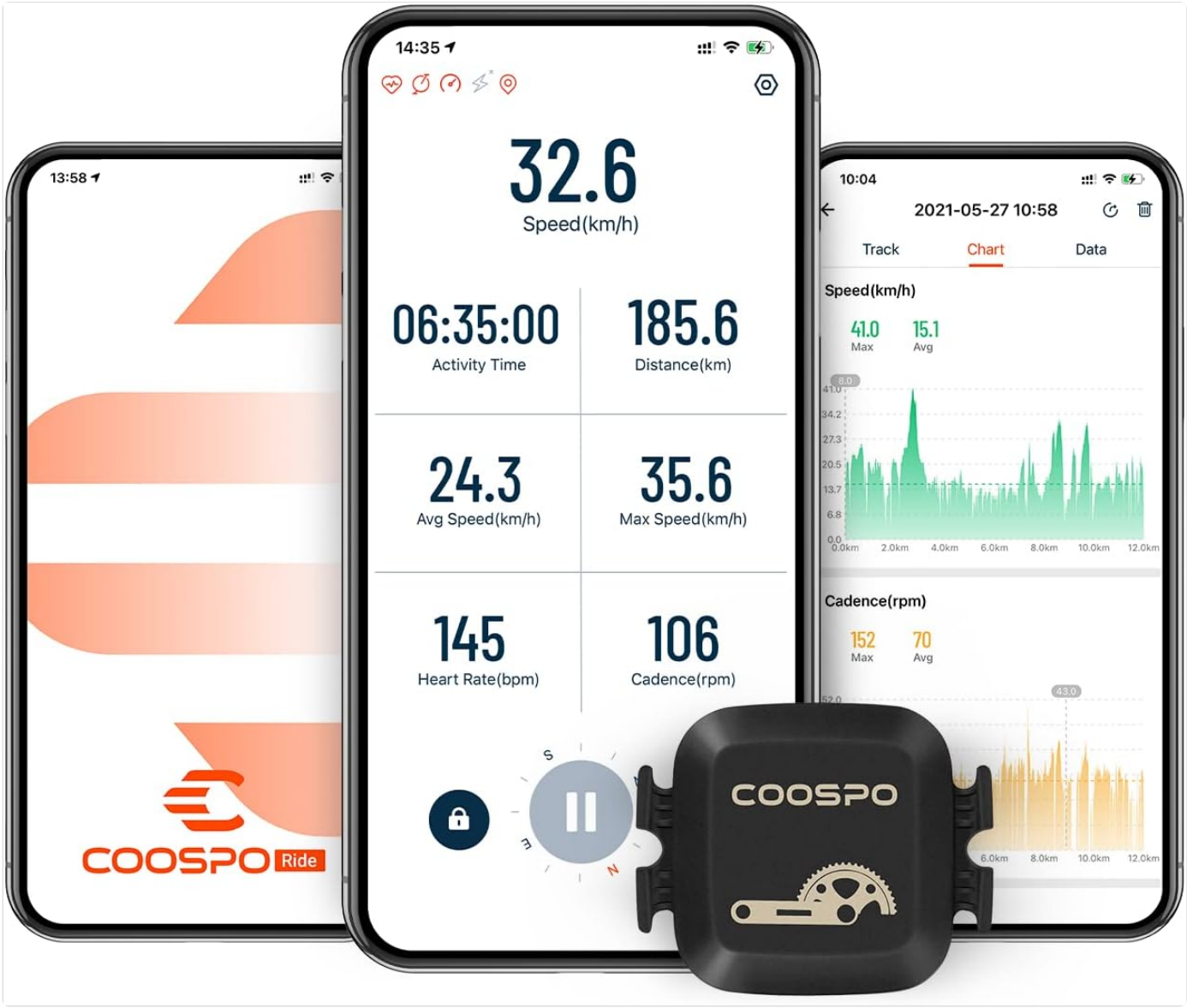


Figure 7: Example of data display within the CoospoRide APP.

4.1.2. GPS Bike Computer Connection

For GPS bike computers that support Bluetooth and ANT+ protocols, navigate to the sensor pairing menu on your device. Select "Add Sensor" and choose the COOSPO sensor from the list. Ensure the sensor is active by spinning the crank or wheel to wake it up.



Figure 8: Compatibility with cycling computers and smartphone applications.

4.2. Bluetooth & ANT+ Protocol Usage

- When using a Bluetooth connection, the sensor can only connect to one application or device concurrently.
- When using the ANT+ protocol, the sensor can be connected to multiple devices simultaneously.

4.3. Instructional Video

Watch this official video for a visual guide on unpacking, setting up, and connecting your COOSPO Cadence & Speed Sensor.

Your browser does not support the video tag.

Video 1: Bike Speed Sensor Setup and Connection Guide. This video demonstrates the unboxing, battery installation, mode switching, mounting on a bike, and connecting to a cycling computer for both cadence and speed modes.

5. Maintenance

- **Battery Life:** The sensor has an estimated battery life of 500 hours. Replace the CR2032 battery when the sensor no longer activates or connects reliably.

- **Water Resistance:** The sensor is rated IP67, meaning it is protected from dust and can withstand immersion in water up to 1 meter for 30 minutes. While it is water-resistant, avoid prolonged submersion or high-pressure water jets.
- **Cleaning:** Wipe the sensor clean with a damp cloth after use. Do not use abrasive cleaners or solvents.



Figure 9: The sensor features IP67 water resistance.

6. Troubleshooting

- **Sensor Not Connecting to App:** Ensure you are searching for the sensor within the app itself, not through your phone's general Bluetooth settings. The sensor must be woken up by spinning the crank or wheel.
- **Wahoo App Connection:** If using the Wahoo app, you may only be able to connect one COOSPO sensor at a time. The Wahoo app might not support connecting two sensors from other brands simultaneously.
- **Inaccurate Readings:**
    - Verify the sensor is securely mounted and not shifting during activity.
    - Ensure the sensor is in the correct mode (Cadence or Speed) for its mounting location.

    - Check battery level.
- **Sensor Falling Off:** Ensure the rubber bands are properly secured and tight. Consider using additional securing methods like zip-ties if experiencing issues with the sensor detaching during rides, especially on rough terrain.

7. Specifications

Feature	Detail
Model Name	BK467
Sensor Type	Cadence Sensor / Speed Sensor (switchable)
Connectivity Technology	Bluetooth, ANT+
International Protection Rating	IP67
Battery Type	CR2032 Lithium Metal
Battery Life	500 Hours
Item Weight	9.5 Grams
Product Dimensions (LxWxH)	1.63" x 1.33" x 0.54"
Material	Plastic
Mounting Type	Crank Arm / Wheel Hub (with rubber bands)



Sensor mode	Cadence or Speed Mode
Wireless connectivity	Bluetooth & ANT+
Waterproof grade	IP67
Weight	7g
Battery type	CR2032 (Included)
Poruduct size	1.57" x 1.37" x 0.47"

Figure 10: Product dimensions and key specifications.

8. Warranty

The COOSPO Cadence & Speed Sensor comes with a **12-month warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

9. Customer Support

For further assistance, technical support, or warranty inquiries, please contact CooSpo customer service. Refer to the product packaging or the official CooSpo website for the most up-to-date contact information.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question