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Garmin 010-12104-00

Garmin Bike Speed Sensor and Cadence Sensor User Manual

Model: 010-12104-00

1. Introduction

The Garmin Bike Speed Sensor and Cadence Sensor are wireless devices designed to monitor your cycling performance. These sensors provide accurate data on your pedaling cadence (revolutions per minute) and speed, enhancing your training both indoors and outdoors. They are designed for easy installation and maintenance, featuring a magnet-free design.



Image 1.1: Overview of the Garmin Speed Sensor, Cadence Sensor, and various sized mounting straps. The speed sensor is shown at the top right, the cadence sensor at the bottom left, and three different sized rubber straps are visible on the right side.

2. What's Included

Your package should contain the following items:

- Speed Sensor
- Speed Sensor Sleeve (for mounting)
- Cadence Sensor
- Cadence Sensor Straps (various sizes)
- Instruction Manual (this document)

3. Setup and Installation

The sensors are designed for tool-free installation. Ensure your bike is stable before beginning installation.

3.1. Speed Sensor Installation

1. Locate the speed sensor. It is typically smaller and designed to attach to a wheel hub.
2. Select the appropriate rubber sleeve for your wheel hub size.
3. Place the speed sensor into the rubber sleeve.
4. Stretch the sleeve around the hub of either the front or rear wheel. Ensure the sensor is securely centered on the hub and does not interfere with spokes or other bike components.
5. Spin the wheel to confirm the sensor is stable and does not rub against any parts.



Image 3.1: The speed sensor (top right in the main product image) is designed to fit into a rubber sleeve and attach to a bicycle wheel hub.

3.2. Cadence Sensor Installation

1. Locate the cadence sensor. It is designed to attach to a crank arm.
2. Select the appropriate rubber strap for your crank arm size.
3. Place the cadence sensor onto the inside of either crank arm.
4. Secure the sensor firmly using the selected rubber strap. Ensure the sensor is stable and does not interfere with

pedaling or shoe clearance.

5. Rotate the pedals to confirm the sensor is stable and does not rub against any parts.



Image 3.2: The cadence sensor (bottom left in the main product image) is secured to a crank arm using one of the provided rubber straps.

4. Device Pairing

The Garmin Speed and Cadence Sensors use ANT+ wireless technology to communicate with compatible Garmin devices. Follow these steps to pair your sensors:

1. Ensure your Garmin compatible device (e.g., Edge cycling computer, Forerunner watch) is powered on and within 3 meters (10 feet) of the sensors.
2. Keep other ANT+ sensors at least 10 meters (33 feet) away during the pairing process to avoid interference.
3. On your Garmin device, navigate to the sensor settings menu. This path may vary by device (e.g., Settings > Bike Settings > [Your Bike] > ANT+ Spd/Cad > Sensor Details).
4. Select the option to search for speed and cadence sensors.
5. To activate the sensors for pairing, spin the wheel (for the speed sensor) and rotate the crank arm (for the cadence

sensor) a few times. The sensors will automatically enter pairing mode.

6. Once detected, select the sensors from the list on your Garmin device to complete the pairing process.
7. **Important Note:** If your device offers options like "Spd. and Cad. Sensor" or "Spd/Cad Sensor", choose "Spd. and Cad. Sensor" for these separate units. The "Spd/Cad Sensor" option is typically for combined speed/cadence sensors.

5. Operation

Once paired, the sensors will automatically transmit data to your compatible Garmin device when you begin cycling.

- **Speed Sensor:** Attaches to your wheel hub and provides accurate speed and distance data. It self-calibrates with your Garmin Edge device and functions reliably even during indoor training on a turbo trainer.
- **Cadence Sensor:** Fastens to your crank arm and measures your pedal strokes per minute (SPM). This data is crucial for optimizing your training efficiency and maintaining a consistent pace.

Ensure your Garmin device is configured to display speed and cadence data during your activity for real-time monitoring.

6. Maintenance

6.1. Battery Replacement

The sensors are powered by a single Lithium Metal battery (CR2032, included). When the battery level is low, your Garmin device may indicate this. To replace the battery:

1. Locate the battery cover on the sensor.
2. At the bottom edge of the battery cover, there is a small tab. Use your fingernail or a small, flat tool to gently push this tab approximately 2 mm counter-clockwise. The cover should then release.
3. Carefully remove the old battery.
4. Insert a new CR2032 battery with the positive (+) side facing up.
5. Align the battery cover and press it down, then turn it clockwise until it clicks securely into place.
6. After replacing the battery, you may need to re-pair the sensor with your Garmin device.

6.2. Cleaning

Clean the sensors periodically with a damp cloth to remove dirt and debris. Avoid using harsh chemicals or abrasive cleaners, as these can damage the sensor casing or electronics. Ensure the sensors are dry before re-installation or storage.

7. Troubleshooting

- **Sensor Not Pairing:**
  - Ensure the sensors are active by spinning the wheel or rotating the crank arm.
  - Check the battery level. Replace the battery if necessary.
  - Bring your Garmin device closer to the sensors (within 3 meters / 10 feet).
  - Move away from other ANT+ sensors during pairing.
  - Remove the battery from the sensor for 30 seconds, then reinsert it to reset the sensor.
  - If still experiencing issues, gently pry up the battery contacts slightly to ensure a firm connection.

- Verify you are selecting the correct sensor type on your Garmin device (e.g., "Spd. and Cad. Sensor" for separate units).

- **Inaccurate Readings:**
  - Ensure sensors are securely mounted and not shifting during activity.
  - Check for physical obstructions or damage to the sensors.
  - Confirm the sensor is correctly installed (e.g., cadence sensor on crank arm, speed sensor on hub).
- **Sensor Disconnects Frequently:**
  - Check battery level.
  - Ensure there are no strong electromagnetic interferences nearby.
  - Update the firmware on your Garmin device if an update is available.

8. Specifications

Attribute	Detail
Model Number	010-12104-00
Dimensions (L x W x H)	2.37 x 1.56 x 1.4 inches (approximate, combined)
Weight	1.6 ounces (approximate, combined)
Wireless Protocol	ANT+
Battery Type	CR2032 (Lithium Metal)
Measuring Range (Speed)	0-100 mph
Measuring Range (Cadence)	0-200 spm (strokes per minute)
Operating Temperature	-20°C to 60°C (-4°F to 140°F) (Typical for Garmin sensors)
Water Rating	Water-resistant (Typical for Garmin sensors, e.g., IPX7)

9. Compatible Devices

The Garmin Speed and Cadence Sensors are compatible with a wide range of Garmin devices that support ANT+ connectivity. A partial list includes:

- Fenix 2, Fenix 3, Fenix 5 series
- Approach S60
- D2 series
- Descent Mk1
- Edge 25, Edge 130, Edge 500, Edge 510, Edge 520, Edge 520 Plus, Edge 800, Edge 810, Edge 820, Edge 1000, Edge 1030
- Edge Explore 820, Edge Explore 1000
- epix

- eTrex Touch 35, eTrex Touch 35t
- Forerunner 35, Forerunner 230, Forerunner 235, Forerunner 310XT, Forerunner 630, Forerunner 645, Forerunner 735XT, Forerunner 910XT, Forerunner 920XT, Forerunner 935
- Oregon 600, Oregon 650, Oregon 650t, Oregon 700, Oregon 750, Oregon 750t
- tactix Bravo, tactix Charlie
- Varia Vision In-Sight Display
- VIRB 360, VIRB Ultra 30, VIRB X, VIRB XE
- vivoactive, vivoactive 3, vivoactive HR

For the most up-to-date compatibility list, please refer to the official Garmin website or your device's specific documentation.

10. Warranty and Support

Garmin products are backed by a limited warranty. For detailed warranty information, please refer to the warranty card included with your product or visit the official Garmin website. For technical support, product registration, or to purchase accessories, please visit www.garmin.com/support.

Always ensure you are using official Garmin resources for support to receive accurate and reliable assistance.

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