Garmin 010-12843-30

Garmin Speed Sensor 2 Instruction Manual

Model: 010-12843-30

1. OVERVIEW

The Garmin Speed Sensor 2 is a wireless sensor designed to accurately monitor your speed and distance while cycling. Its magnet-free design ensures easy installation, maintenance, and transfer between multiple bicycles. This sensor transmits data via both ANT+ connectivity and Bluetooth Low Energy technology, allowing it to pair with a wide range of compatible devices, including Garmin Edge cycling computers, Garmin watches, and various training applications.

Once properly set up and calibrated, the Speed Sensor 2 provides consistent and precise speed and distance data, even when a head unit is not actively connected or GPS signals are unavailable.

2. SETUP

2.1 Unpacking and Initial Inspection

Carefully remove the Garmin Speed Sensor 2 from its packaging. Verify that all components, including the sensor unit and the mounting strap, are present and undamaged.

2.2 Battery Installation

The Speed Sensor 2 typically comes with a pre-installed CR2032 battery. If the battery needs to be installed or replaced, gently twist the battery cover counter-clockwise to open it. Insert the CR2032 battery with the positive (+) side facing up. Replace the cover and twist clockwise until it is securely closed. The sensor will activate automatically.

2.3 Mounting the Sensor

The Speed Sensor 2 is designed to attach to the hub of either your bicycle's front or rear wheel. Follow these steps for installation:

1. Select a wheel hub for mounting. Ensure the area is clean and free from obstructions.
2. Place the sensor on the center of the wheel hub.
3. Secure the sensor to the hub using the provided rubber mounting strap. Loop the strap around the hub and hook it onto the sensor's attachment points. Ensure the sensor is firmly held in place and does not interfere with any moving parts of the wheel or fork/frame.

Image: Garmin Speed Sensor 2 securely mounted on a bicycle wheel hub using the rubber strap.

Image: A closer view of the Garmin Speed Sensor 2 attached to the wheel hub, showing its compact design.

2.4 Wheel Size Configuration

For accurate speed and distance readings, you must configure your wheel size. This can be done in two ways:

- **Garmin Connect App:** Pair your sensor with the Garmin Connect mobile application and manually enter your wheel size.
- **Garmin Edge Cycling Computer/Compatible Device:** Pair the sensor with your Garmin Edge device. The device may offer an auto-calibration feature or allow manual entry of the wheel size. Refer to your specific device's manual for detailed instructions.

Once the wheel size is set, the sensor will provide accurate data even if your paired device is not present during a ride.

3. Operating the Sensor

3.1 Pairing with Devices

The Garmin Speed Sensor 2 uses both ANT+ and Bluetooth Low Energy (BLE) for wireless communication. To pair it with a compatible device:

1. Ensure the sensor is awake by spinning the wheel a few times.
2. On your Garmin Edge cycling computer, Garmin watch, or other compatible device/app, navigate to the sensor pairing menu.
3. Select to add a new speed sensor. The device will search for available sensors.
4. Once the Garmin Speed Sensor 2 is detected, select it to complete the pairing process.

The sensor will automatically connect to your paired device when it is within range and active.

3.2 Data Transmission

The sensor transmits real-time speed and distance data to your paired device. This data can be viewed on your device's display and recorded for later analysis in platforms like Garmin Connect.

4. Maintenance

4.1 Battery Replacement

The Speed Sensor 2 uses a CR2032 coin cell battery. When the battery is low, your paired device may display a low battery warning. To replace the battery:

1. Remove the sensor from your bicycle wheel hub.
2. Gently twist the battery cover counter-clockwise to open it.
3. Remove the old CR2032 battery.
4. Insert a new CR2032 battery with the positive (+) side facing up.
5. Replace the battery cover and twist clockwise until it is securely closed. Ensure the O-ring seal is properly seated to maintain water resistance.

4.2 Cleaning and Storage

Clean the sensor regularly with a damp cloth to remove dirt and debris. Avoid using harsh chemicals or abrasive materials. When not in use for extended periods, store the sensor in a cool, dry place. Removing the battery during long-term storage can help prolong battery life.

5. Troubleshooting

- **Sensor Not Pairing:**
    - Ensure the sensor is awake by spinning the wheel.
    - Check that the battery is correctly installed and not depleted. Replace if necessary.
    - Verify that your receiving device (e.g., Garmin Edge, smartphone) has ANT+ or Bluetooth LE enabled and is searching for sensors.
    - Move the sensor closer to the receiving device during the pairing process.

- **Inaccurate Speed/Distance Readings:**

- Confirm that the correct wheel size is configured in your paired device or Garmin Connect app.
- Ensure the sensor is securely mounted on the wheel hub and not slipping.
- Check for any physical obstructions that might interfere with the sensor's operation.

- **Intermittent Connectivity:**

  - Ensure there are no strong electromagnetic interferences nearby.
  - Check the battery level of the sensor.
  - Update the firmware of your Garmin device if an update is available.

6. SPECIFICATIONS

Product Dimensions	6 x 7.4 x 16.6 cm
Item Model Number	010-12843-30
Brand	Garmin
Model Name	Garmin Speed Sensor 2
Compatible Vehicle Type	Bicycle
Special Features	Bluetooth
Connectivity Technology	Bluetooth, ANT+
Included Components	Speed Sensor 2
Mounting Type	Hub Mount
Item Weight	81 grams

7. WARRANTY AND SUPPORT

For warranty information, product support, and additional resources, please visit the official Garmin website or contact Garmin customer service. Keep your proof of purchase for warranty claims.
Official Garmin Support: www.garmin.com/support