



# GARMIN 010-12843-00 Speed Sensor 2 and Cadence Owner's Manual

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GARMIN 010-12843-00 Speed Sensor 2 and Cadence Owner's Manual



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## Introduction



## WARNING

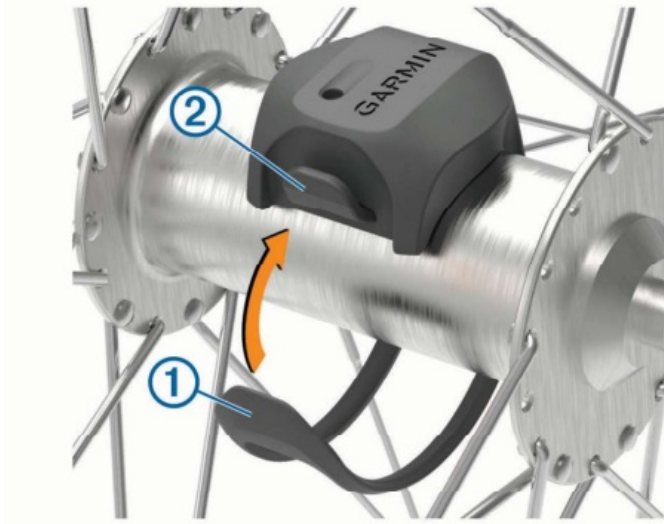
See the Important Safety and Product Information guide in the product box for product warnings and other important information.

Always consult your physician before you begin or modify any exercise program.

### Installing the Speed Sensor

**NOTE:** If you do not have this sensor, you can skip this task.

**TIP:** Garmin recommends you secure your bike on a stand while installing the sensor.



1. Place and hold the speed sensor on top of the wheel hub.
2. Pull the strap around the wheel hub, and attach it to the hook 2 on the sensor. The sensor may be tilted when installed on an asymmetrical hub. This does not affect operation.
3. Rotate the wheel to check for clearance. The sensor should not contact other parts of your bike.

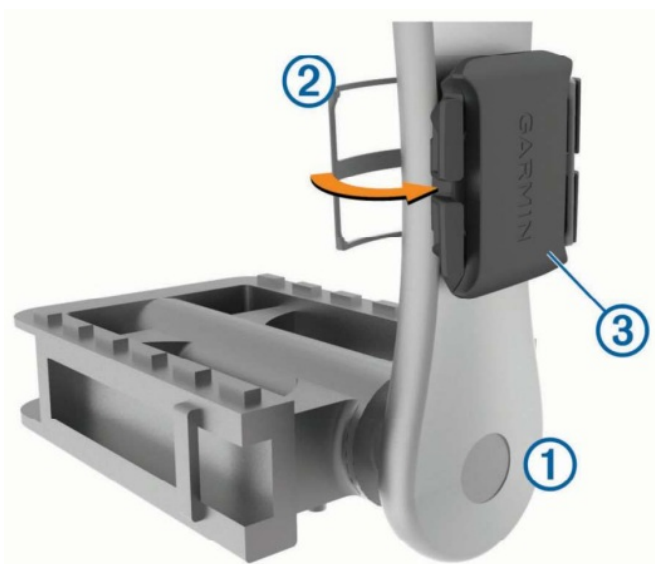
**NOTE:** The **LED** flashes green for five seconds to indicate activity after two revolutions.

### Installing the Cadence Sensor

**NOTE:** If you do not have this sensor, you can skip this task.

**TIP:** Garmin recommends you secure your bike on a stand while installing the sensor.

1. Select the band size that fits your crank arm securely. The band you select should be the smallest one that stretches across the crank arm.
2. On the non-drive side, place and hold the flat side of the cadence sensor on the inside of the crank arm,
3. Pull the bands 2 around the crank arm, and attach them to the hooks 3 on the sensor.



4. Rotate the crank arm to check for clearance. The sensor and bands should not contact any part of your bike or shoe.

**NOTE:** The LED flashes green for five seconds to indicate activity after two revolutions.

5. Take a 15 minute test ride and inspect the sensor and bands to ensure there is no evidence of damage.

### Pairing the Sensors with Your Device

The first time you connect a wireless sensor to your device using ANT+ or Bluetooth technology, you must pair the device and sensor. After they are paired, the device connects to the sensor automatically when you start an activity and the sensor is active and within range.

**NOTE:** The pairing instructions differ for each Garmin compatible device. See your owner's manual

- Bring the Garmin compatible device within 3 m (10 ft.) of the sensor.
- Stay 10 m (33 ft.) away from other wireless sensors while pairing.
- Rotate the crank arm or wheel two revolutions to wake up the sensor. The LED flashes green for five seconds to indicate activity. The LED flashes red to indicate a low battery level
- If available, pair the sensor using ANT+ technology.

**NOTE:** The sensor can pair with up to two Bluetooth devices and any number of ANT+ devices. After you pair the first time, your Garmin compatible device automatically recognizes the wireless sensor each time it is activated.

### Garmin Connect™

Your Garmin Connect account allows you to track your performance and connect with your friends. It gives you the tools to track, analyze, share, and encourage each other. Record the events of your active lifestyle. You can create your free Garmin Connect account when you pair your device with your phone using the Garmin Connect app.

**Store your activities:** After you complete a ride with your device, you can sync with the Garmin Connect app to it as long as you want. upload that activity and keep.

**Analyze your data:** You time can view more detailed information about your fitness and indoor activities, including , distance, calories burned, speed charts, and customizable reports.



**Share your activities:** You can connect with friends to follow each other's activities or post links to your activities on your favorite social networking sites.



**Manage your settings:** You can customize your device and user settings on your Garmin Connect account..

### Pairing the Speed Sensor With Your Smartphone

When you pair the speed sensor with the Garmin Connect app, you can record and upload cycling activities that include speed and distance data without using another Garmin device. The speed sensor must be paired directly through the Garmin Connect app, instead of from the Bluetooth settings on your smartphone.

**NOTE:** The cadence sensor cannot pair with the Garmin Connect app and be used as a standalone sensor.

1. From the app store on your smartphone, install and open the Garmin Connect app.
2. Bring your smartphone within 3 m (10 ft.) of the speed sensor.
 

**NOTE:** Stay 10 m (33 ft.) away from other wireless sensors while pairing.
3. Rotate the wheel two revolutions to wake up the speed sensor. The LED flashes green for five seconds to indicate activity. The LED flashes red to indicate a low battery level
4. Select an option to add the speed sensor to your Garmin Connect account:
  - If this is the first device you have paired with the Garmin Connect app, follow the on-screen instructions.
  - If you have already paired another device with the Garmin Connect app, from the  or  menu, select Garmin Devices > Add Device, and follow the on-screen instructions.

## Device Information

### User Replaceable Batteries

See the Important Safety and Product Information guide in the product box for product warnings and other important information.

#### Replacing the Speed Sensor Battery

The device uses one CR2032 battery. The LED flashes red to indicate a low battery level after two revolutions.

1. Locate the circular battery cover on the front of the sensor.



2. Twist the cover counter-clockwise until the cover is loose enough to remove

3. Remove the cover and the battery 2.

4. Wait 30 seconds.

5. Insert the new battery into the cover, observing polarity.

**NOTE:** Do not damage or lose the O-ring gasket

6. Twist the cover clockwise so that the marker on the cover aligns with the marker on the case.

**NOTE:** The LED flashes red and green for a few seconds after battery replacement. When the LED flashes green and then stops flashing, the device is active and ready to send data.

### Replacing the Cadence Sensor Battery

The device uses one CR2032 battery. The LED flashes red to indicate a low battery level after two revolutions:

1. Locate the circular battery cover on the back of the sensor. ②



2. Twist the cover counter-clockwise until the marker points to unlocked and the cover is loose enough to remove.
3. Remove the cover and the battery 2.
4. Wait 30 seconds.
5. Insert the new battery into the cover, observing polarity.  
**NOTE:** Do not damage or lose the O-ring gasket.
6. Twist the cover clockwise until the marker points to locked.  
**NOTE:** The LED flashes red and green for a few seconds after battery replacement. When the LED flashes green and then stops flashing, the device is active and ready to send data.

### Replacing the Cadence Sensor Battery

**NOTE:** Use these instructions for product models that have a coin slot on the battery door. The device uses one CR2032 battery.  
The LED flashes red to indicate a low battery level after two revolutions.

1. Locate the circular battery cover on the back of the sensor. ① ②



2. Twist the cover counter-clockwise until the marker points to unlocked and the cover is loose enough to remove.
3. Remove the cover and the battery 2
4. Wait 30 seconds.
5. Insert the new battery into the cover, observing polarity.  
**NOTE:** Do not damage or lose the O-ring gasket.
6. Twist the cover clockwise until the marker points to locked.  
**NOTE:** The LED flashes red and green for a few seconds after battery replacement. When the LED flashes green and then stops flashing, the device is active and ready to send data.

### Speed Sensor 2 and Cadence Sensor 2 Specifications

Battery type	User-replaceable CR2032, 3 V
Battery life	Approximately 12 mo. at 1 hr./day
Speed sensor storage	Up to 300 hr. of activity data
Operating temperature range	From -20° to 60°C (from -4° to 140°F)
Wireless frequency/protocol	2.4 GHz @ 4 dBm nominal
Water rating	IEC 60529 IPX7

### Troubleshooting

#### My device will not connect to the sensors

If your device will not connect to the speed and cadence sensors, you can try these tips.

- Rotate the crank arm or wheel two revolutions to wake up the sensor. The LED flashes green for five seconds to indicate activity. The LED flashes red to indicate a low battery level.
- Replace the battery if the LED does not flash after two revolutions.

- Enable Bluetooth technology on your smartphone or Garmin device.
- Pair the sensor with your device using ANT+ technology.

**NOTE:** If the sensor is already paired with two Bluetooth devices, you should pair using ANT+ technology or remove a Bluetooth device

- Remove the sensor from your Garmin device to retry the pairing process.

Remove the speed sensor from the Garmin Connect app and the Bluetooth settings on your smartphone to retry the pairing process.


## Limited Warranty

The Garmin standard limited warranty applies to this accessory. For more information, go to [www.garmin.com/support/warranty](http://www.garmin.com/support/warranty).



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## Documents / Resources

  SPEED SENSOR 2 AND CADENCE SENSOR 2 <small>Owner's Manual</small>	<a href="#">GARMIN 010-12843-00 Speed Sensor 2 and Cadence</a> [pdf] Owner's Manual 010-12843-00, 010-12843-00 Speed Sensor 2 and Cadence, Speed Sensor 2 and Cadence, S ensor 2 and Cadence, Cadence
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## References

- [User Manual](#)