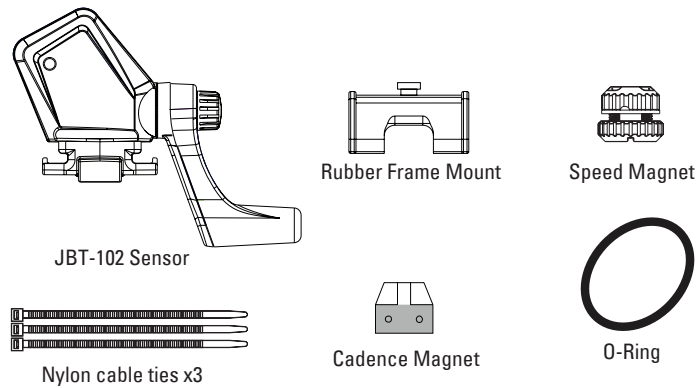


SPEED & CADENCE SENSOR USER'S MANUAL

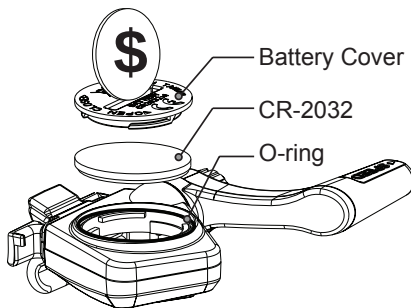
CODE: JBT-102

IN THE BOX



BATTERY REPLACEMENT

To replace the battery, unscrew the back cover. Gently remove the battery and replace it with a new battery model CR2032. The (+) side should be facing up.
*NOTE: Losing O-ring may cause water leakage.



SAFE USE GUIDELINES

WARNING

- Read and follow all instructions concerning Speed & Cadence sensor setup and installation
- Keep this device away from children. It contains batteries that can be harmful or fatal if swallowed.
- Do not attempt to modify your JetBlack Speed & Cadence sensor.
- Before you start any exercise program you should consult a physician. Should you become ill, feel dizzy, light-headed or nauseous, stop riding immediately and seek medical attention.

CAUTION

- Check the position of the sensor and magnet periodically.
- Check the sensor and magnet are securely fastened periodically.
- The magnets and sensors may only be rinsed with fresh water or washed with a mild soap, other cleaning products may cause damage.

COMPATIBILITY (Dual Bluetooth Smart & ANT+)

The Speed & Cadence Sensor enables wireless tracking of pedalling cadence and overall speed in real time and sends data to the compatible display devices via ANT+/ Bluetooth Smart (Bluetooth 4.0) with dual mode wireless technology.

Compatibility

iOS devices:

iPhone 4s and above, iPod touch (5th gen and above), iPad (3rd gen and above), iPad mini, iPod nano (7th gen and above)
Ensure Bluetooth services are enabled.

Android devices:

Most devices with Bluetooth Smart Ready technology or ANT+™ enabled Androids with OS version 4.3 or newer.
Please check your phones manufacturing details for compatibility with either ANT+ or Bluetooth Smart.

Other devices:

Compatible with most cycle apps, smartphones, watches and cycle computers, however please check the devices compatibility with Bluetooth Smart or ANT+™ Speed profiles

PAIRING THE SENSOR

The below steps are to be followed after installation is complete (see installation step over the page). To connect your device (smartphone, tablet, watch or cycle computer) to the sensor follow the below steps:

1. Make sure you remove any wireless sensors from the surrounding area as these may cause interference and could cause pairing to fail.
2. Make sure your device (smartphone, tablet, watch or cycle computer) has either Bluetooth smart or ANT+ and ensure that it is enabled.
3. Begin pedalling the bicycle or rotating the cranks backwards so that the magnets activate the sensors. The sensor will wake up and then begin to send out a search signal for a compatible device to connect with (smartphone, tablet, watch or cycle computer).
4. Go to the device you wish to pair and while continuing to pedal or back pedal, search for Speed & Cadence sensors.
5. The sensor typically pairs to an active device within about 5-20 seconds. Initial pairing may take up to two minutes.
6. If pairing fails, try the process again and then see the trouble shooting section.

TRAINER VIRTUAL POWER

Trainer virtual power is based on the speed of your trainer in a set resistance level and the recorded resistance of that trainer at the given speed. Using an app that includes the JetBlack trainer power curves will display your virtual power readings.

Important note:

- Carefully follow your trainer's user manual/setup instructions to keep your power readings consistent and more accurate.
- Make sure you have the correct trainer model selected in the app settings.
- For trainers that have resistance adjustment, make sure the correct resistance level is selected.

TROUBLE SHOOTING

If connection cannot be made or becomes intermittent please follow the below steps:

- As with most electronic receiving devices, there can sometimes be interference that causes inaccurate display readouts. Avoid using your sensor near common sources of interference. These include high voltage power lines, air conditioning motor units, fluorescent lights, wristwatches, mobiles and computers.
- If some interference remains or your sensor is in a power conservation mode, pairing may take up to 2 minutes for the first connection to occur. Keep pedalling and allow up to 2 minutes for connection (subsequent connections are typically quicker).
- Check the receiving device (smartphone, tablet, watch or cycle computer) has more than 10% battery remaining.
- Check the receiving device has Bluetooth Smart or ANT+ enabled.
- Check that the battery is installed correctly
- Replace the battery in the sensor and retry pairing process
- **Note:** The signal does not travel well through material objects or bodies. Where possible, try to keep clear line of sight between the receiving device and transmitting Speed & Cadence sensor.

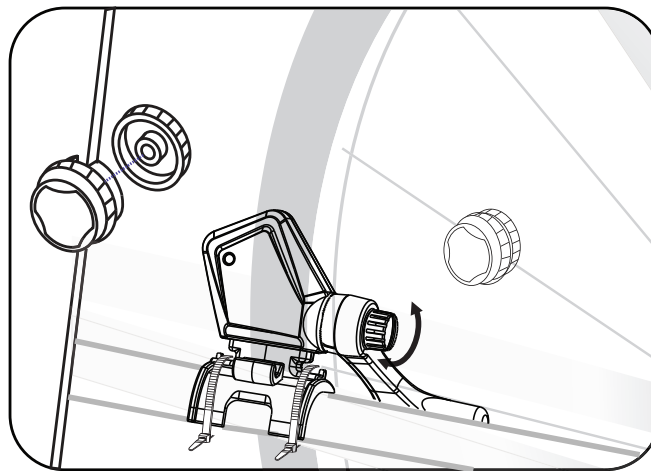
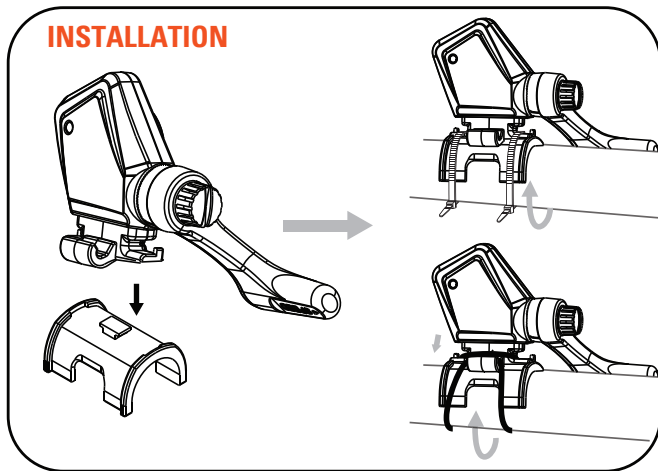
LIMITED WARRANTY

JetBlack aims to provide the highest possible quality at all times. However, should you have any issues with your product please notify us immediately.

The JetBlack WhisperDRIVE Speed Sensor comes with a limited lifetime warranty. This warranty is not applicable to damage caused by, misuse, abuse, neglect, accident or commercial use. It does not cover general wear and tear, unauthorised modification or failure to follow instructions or warnings in owner's manual. Units which use batteries or computer display units come with a one year warranty.

It is the responsibility of the purchaser to retain receipts for proof of purchase in the event that warranty is required.

www.jetblackcycling.com
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1. Install Speed and Cadence Sensor

Mount the Cadence sensor on the top left hand (non drive side) chainstay using cable ties or O-ring. Ensure the cadence side is facing the pedal and the speed sensor is facing the rear wheel. If using an O-ring, pull it from the back to the front hook to secure the sensor on the bike. If using cable ties, keep them loose enough to allow adjustments whilst aligning the magnets. Do not tighten the cable ties until you are happy with the magnets and sensor positions. Once the cable ties are tightened, trim any loose ends.

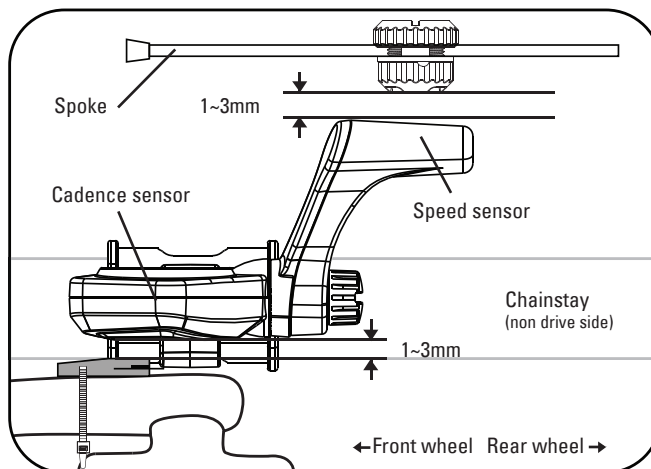
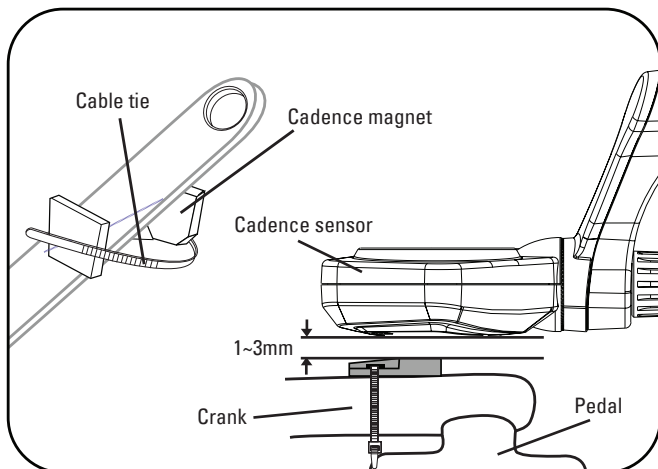
2. Install the Magnets

Secure the Speed Magnet on the spoke of the rear wheel using the screw and ensuring the magnet side faces the speed sensor.

Secure the Cadence Magnet on the inner side of the pedal, ensuring the magnet faces the Cadence Sensor.

Make sure the magnets are within 1-3mm of the sensor

CAUTION: Before riding, check that the sensors and magnets are secure. Rotate your wheel and cranks to make sure they are secure and don't come into actual contact with each other



3. Find your wheel size

To get an accurate reading, the wheel size must be correct. You may follow the attached guide or measure it yourself or you can determine this with the steps below:

1. Inflate tyre to pressure that the user will be using
2. Align a mark on the tyre with a mark on the ground
3. Apply some body weight to the handlebars to simulate a rider on the bike
4. Roll the tyre forwards for one revolution in a straight line until the mark reaches the ground again

5. Measure the length between two points to get the circumference
NOTE: For the JetBlack training app the wheel size is set for 700x23c.

Tire Scale	L(mm)	Tire Scale	L(mm)
14 x 1.50	1020	26 x 2.10	2068
14 x 1.75	1055	26 x 2.125	2070
16 x 1.50	1185	26 x 2.35	2083
16 x 1.75	1195	26 x 3.00	2170
18 x 1.50	1340	27 x 1	2145
18 x 1.75	1350	27 x 1-1/8	2155
20 x 1.75	1515	27 x 1-1/4	2161
20 x 1-3/8	1615	27 x 1-3/8	2169
22 x 1-3/8	1770	650 x 35A	2090
22 x 1-1/2	1785	650 X 38A	2125
24 x 1	1753	650 X 38B	2105
24 x 3/4 Tubular	1785	700 X 18C	2070
24 x 1-1/8	1795	700 X 19C	2080
24 x 1-1/4	1905	700 X 20C	2086
24 x 1.75	1890	700 X 23C	2096
24 x 2.00	1925	700 X 25C	2105
24 x 2.125	1965	700 X 28C	2136
26 x 7/8	1920	700 X 30C	2146
26 x 1(59)	1913	700 X 32C	2155
26 x 1(65)	1952	700C Tubular	2130
26 x 1.25	1953	700 X 35C	2168
26 x 1-1/8	1970	700 X 38C	2180
26 x 1-3/8	2068	700 X 40C	2200
26 x 1-1/2	2100	700 X 42C	2224
26 x 1.40	2005	700 X 44C	2235
26 x 1.50	2010	700 X 45C	2242
26 x 1.75	2023	700 X 47C	2268
26 x 1.95	2050	29 x 2.1	2288
26 x 2.00	2055	29 x 2.3	2326