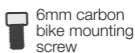


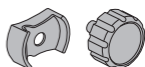


# DUOTRAP S

ANT+ and Bluetooth Smart Dual Mode  
Integrated Speed and Cadence Sensor



Carbon bike speed magnet (wheel)



Alloy bike speed magnet (wheel)



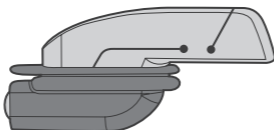
CR2032 battery



Cadence band shim (optional)



Gasket (alloy bikes)



Sensor with grommet (carbon bikes)



Small cadence magnet band (crank)

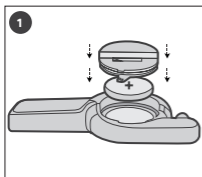


Medium cadence magnet band (crank)

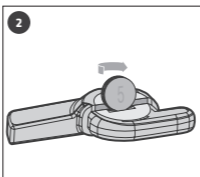


Large cadence magnet band (crank)

## BATTERY INSTALLATION AND REPLACEMENT

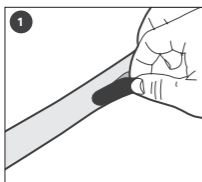


Replacement battery CR2032.

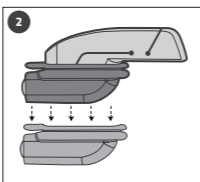


Use a coin to close battery compartment.

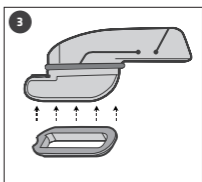
## SENSOR INSTALLATION (ALLOY BIKES)



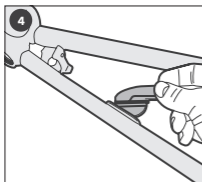
Remove DuoTrap S cover from chainstay.



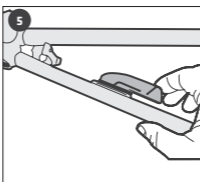
Remove grommet and replace with gasket in #3.



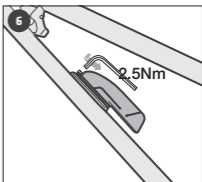
Install gasket onto sensor with notch aligned with screw hole as depicted



Install sensor into chainstay.

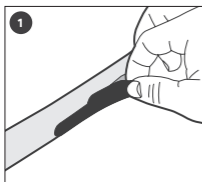


Hold sensor into place and install **8mm long screw**.

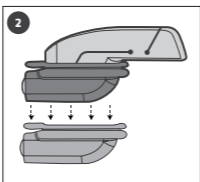


While holding sensor in place, use a 2.5mm hex to tighten **8mm long screw**.

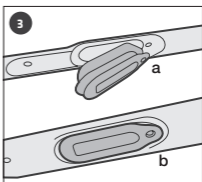
## SENSOR INSTALLATION (CARBON BIKES)



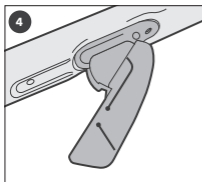
Remove DuoTrap S cover from chainstay.



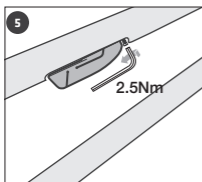
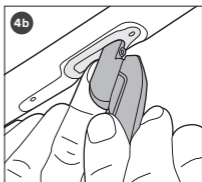
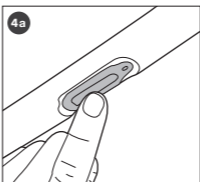
Remove grommet.



Fully insert grommet into chainstay resulting in a flush connection with chainstay.



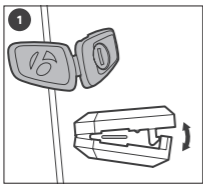
Install sensor into grommet in the chainstay. Hint: Hold grommet in place with one hand while inserting sensor with the other as seen in pic 4a and 4 b.



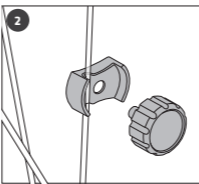
While holding sensor in place, use a 2.5mm hex to tighten **6mm short screw**.

**Note: 6mm screw must be used with carbon frames.**

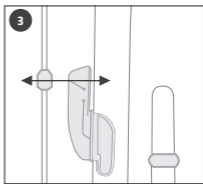
## SPEED MAGNET INSTALLATION (CARBON AND ALLOY BIKES)



**Speed magnet (carbon bikes)** Snap magnet onto inside/trailing edge non-drive side spoke. Some carbon frame/wheel combinations may require magnet to be flipped so the thin side faces sensor.

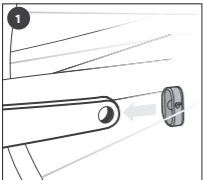


**Speed magnet (alloy bikes)** Tighten wheel magnet on spoke for alloy bikes

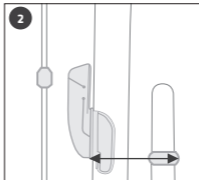


Align speed magnet with tech mark on DuoTrap S. Verify sensor is aligned with magnet by illumination of red speed sensor LED as wheel is rotated. LED will illuminate for the first 10 revolutions.

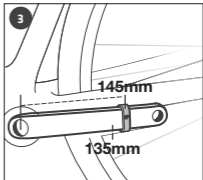
## CADENCE MAGNET INSTALLATION (CARBON AND ALLOY BIKES)



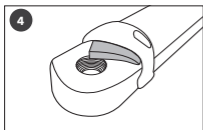
Remove the pedal and install cadence magnet on nondrive side crank arm with thick side nearer the chainstay. Use cadence magnet band that gives the best fit.



Verify magnet is aligned with sensor by illumination of green cadence sensor LED as crank is turned. LED will illuminate for the first 10 revolutions. Align magnet with tech mark on alloy bike's chain stay.



For carbon bikes, place magnet 135mm or 145mm from the center of the bottom bracket to the center of the magnet.



Hint: If the magnet is aligned but the LED does not illuminate, place a cadence band shim underneath the appropriate magnet.

## PAIRING AND SENSOR ACTIVATION

**Pairing:** Consult your ANT + or Bluetooth Smart device's instructions for pairing. Sensor will need to be activated directly before pairing process.

**Sensor Activation:** To verify proper magnet install, spin wheel or turn crank more than two revolutions. Initial sensor activation and magnet alignment will be indicated by the LEDs flashing up to 10 times.

**Please Note:** The sensor will stay active for at least 2 minutes although the LEDs no longer flash.

**Bluetooth Smart Connection:** Install and activate sensor. Turn on your phone's (or other compatible device) Bluetooth capability. Open the desired cycling app and follow instructions for Bluetooth Smart sensor connection. Please note, Bluetooth Smart devices do not always appear in your phone's settings, even when connected. All apps collect, share, and display speed and cadence information differently.

FCC ID: 04GDUOTRAPS

This device complies with part 15 of the FCC Rules.

Operation is subject to the following conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

## NOTES:

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE GRANTEE OF THIS DEVICE COULD VOID THE USER'S AUTHORITY TO OPERATE THE DEVICE.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or experienced radio / TV technician for help.

## IC: 7666A-DUOTRAPS

This device complies with Industry Canada RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicable aux appareils radio. Exempt de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.