

#OVERACHIEVE

**CADEX**

English



Thank you for selecting CADEX WheelSystems, a highly engineered and innovative bicycle wheel solution which will help you achieve your performance goals. Following the instructions below will ensure that you get the most performance from your equipment and that it will continue to perform at the highest level. If you have any questions about anything covered in this manual, please contact your authorized CADEX retailer.

#### IMPORTANT:

This manual contains important safety, performance and service information. Make sure you are familiar with the information provided in the manual prior to installing your new wheels or before going on your first ride and keep it for future reference.

For further information, please visit: [www.cadex-cycling.com](http://www.cadex-cycling.com)



## ! WARNING

- Compliance with the following instructions concerning assembly, handling, maintenance and care of your CADEX wheels is essential to provide proper and safe operation. Disregarding these instructions can lead to accidents resulting in serious injuries or even death.
- CADEX WheelSystems are designed and intended for use on a bicycle. The wheel or its components should not be used for any other applications or as a tool or toy, or in any manner other than that described in this user's manual. Otherwise, it is at the user's own risk. If you are not sure about the intended use of your WheelSystem, please consult your local authorized CADEX retailer for the intended use of the WheelSystem.
- Use CADEX or Giant Tubeless tire products that meet the ETRTO dimension standards to be compatible with CADEX tubeless WheelSystem.
- The tubular tire needs to use the proper size for CADEX tubular WheelSystems.
- CADEX tubeless tires are always the best match for CADEX Tubeless WheelSystems. Should you choose to use a non-CADEX tire, we have created a CADEX approved list of tires that we have tested to be 100% compatible with CADEX rims. To ensure your safety and to maintain your CADEX limited warranty, use only the tires listed on the CADEX Approved Tire List. If necessary, you may use an inner tube on a CADEX tubeless rim, so long as the tire you are using is on the CADEX Approved Tire List. The CADEX Approved Tire List can be found on [www.cadex-cycling.com/global/cadexapproved](http://www.cadex-cycling.com/global/cadexapproved).**
- Using brake pads or tires that are not compatible or recommended by CADEX may result in damage to your WheelSystem and void the warranty.
- For CADEX Tubular WheelSystems, please refer to the tire manufacturer's instructions for tubular tire installation.



## BEFORE RIDING

- Ensure that the wheels are compatible with all other parts such as type of brake, skewers, cassette, tire, valve and rim tape. Additionally, ensure that the wheels are properly installed prior to your first ride.
- If you encounter difficulties or are uncertain about anything identified in this user's manual, please contact your local authorized CADEX retailer.

## ! WARNING

If the wheel is not installed correctly or is improperly maintained, it may be dangerous and cause accidents with serious injury.

# ASSEMBLY A

## Using CADEX Tubeless WheelSystems with tubeless tires:



#### CAUTION :

When installing CADEX Tubeless WheelSystem (including rim tape, tubeless valve, tubeless sealant, and tubeless tire), please refer to the set up instructions issued by CADEX or consult your local authorized CADEX retailer.

- When installing a tubeless tire on your CADEX Tubeless WheelSystem, use it in combination with the CADEX tubeless rim tape, tubeless valves, tubeless sealant and tubeless tire. If your wheels are to be used with rim brakes, we recommend the use of CADEX heat resistant tubeless rim tape. If you have question, please contact your authorized CADEX retailer.

- When installing the rim tape, Ensure the tape is set in the center of the rim bed, covers the entire width of the tire well and make sure that the tape overlaps 15cm on both sides of the valve hole (see Figure 1).

- For the installation of the tubeless valve, please see Figure 2 and Figure 3. Ensure that the provided O-ring seal is positioned correctly between lock-ring and rim (see Figure 2) Attach the lock-ring to the valve and tighten it finger tight. Do not use any kind of tools to tighten the valve lock-ring.

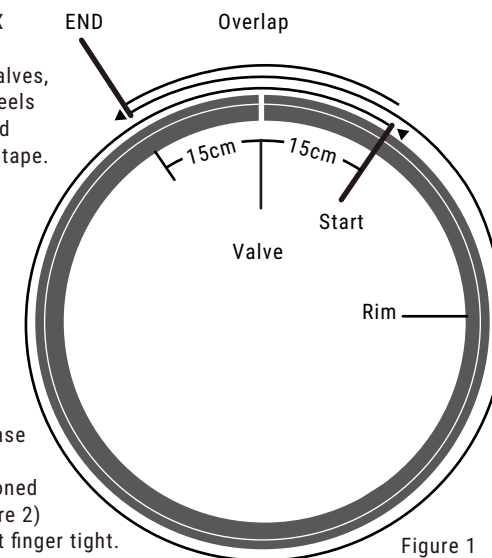


Figure 1

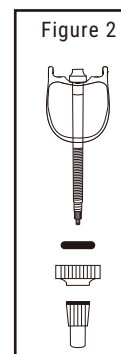


Figure 2

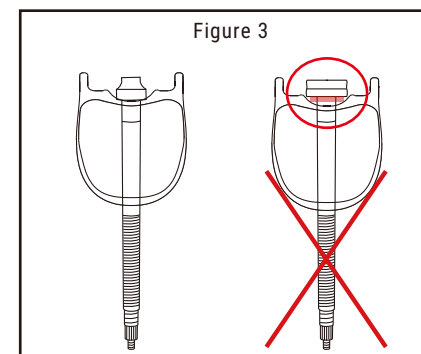


Figure 3

4. For the installation of tubeless tires, please see "ASSEMBLY B, How to install tubeless tires on CADEX Tubeless WheelSystem."
5. For filling the sealant, please see "ASSEMBLY C, How to fill sealant into CADEX Tubeless WheelSystem."
6. To achieve the best cycling performance, we strongly recommend the use of CADEX or Giant Tubeless System products (rim tape, tubeless valves, tubeless sealant, and tubeless tires) in combination with your CADEX Tubeless WheelSystem. CADEX or Giant Tubeless System products can be purchased from your local authorized Giant or CADEX retailer.

## ⚠ WARNING

- The use of a tubeless tire with CADEX Tubeless WheelSystem without CADEX or Giant recommended tubeless rim tape and tubeless valves can result in inflation failure.
- We strongly recommend against the use of tire levers when installing the tubeless tire as this may cause structural damage to the tire and/or rim, resulting in inflation failure or sudden loss of air pressure
- Use of a tubeless tire with a CADEX Tubeless WheelSystem without tire sealant may result in poor air retention and/or lead to sudden air loss in the event of a puncture
- To achieve the puncture sealing performance, use only Giant sealant. Using non-Giant sealant may result in corrosion (tire, rim, and rim tape) or sticky tire and rim, which may lead to abnormal disassembly.

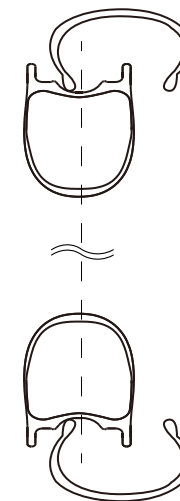


**CAUTION :**  
Tire levers which have a sharp edge and/or are made of a metallic material may damage the rim. To prevent rim damage we recommend only using Giant tire installation tool or the CADEX tire levers which are delivered with the CADEX wheelsystem.

## ASSEMBLY B How to install tubeless tire on CADEX Tubeless WheelSystem:

### Step 1:

Start from the opposite side of the valve, insert one side of the tire bead in the center channel of the rim bed (see Figure 4 below, center channel of the whole rim).



### Step 2:

Start from the opposite side of valve, insert the other side of the tire bead in the center channel of the rim bed (see Figure 4 below). Make sure to work toward the valve as shown in figure below. Ensure the beads of both sides of the tire all around the rim are in the center channel of the rim bed to finish the installation. (Use of Giant tire installation tool and lubricant may reduce the resistance of installation. Giant Tubeless System installation tool and lubricant can be purchased from your local authorized Giant retailer.)

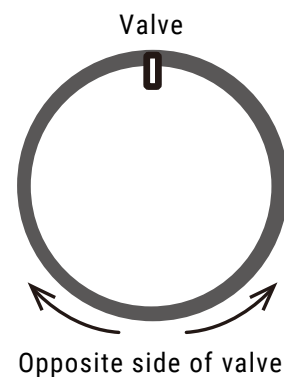
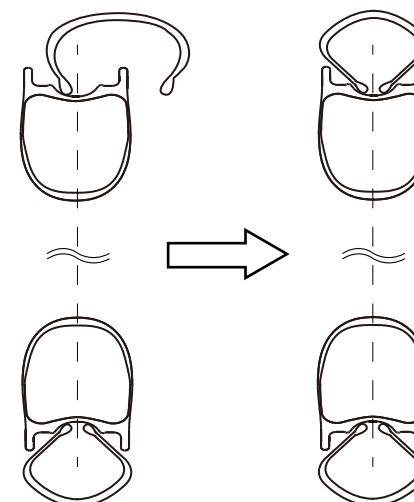


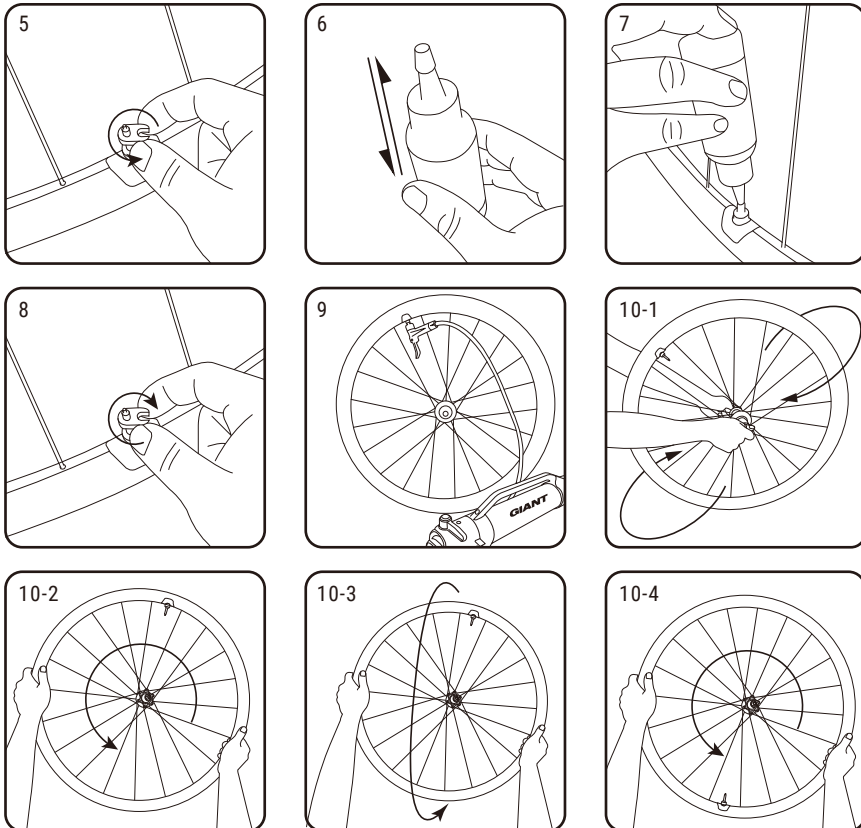
Figure 4



## ASSEMBLY C

### How to add sealant to a Tubeless CADEX WheelSystem:

- Step1 : Remove valve core from valve body by using the provided tool. (Figure 5)
- Step2 : Shake the bottle well to distribute particles throughout the sealant. (Figure 6)
- Step3 : Using either the Giant Check and Refill Syringe or the bottle nipple, fill sealant through the open valve body. Depending on tire size the volume should be between 30~60 ml per wheel. (Figure 7)
- Step4 : Reinstall the valve core to valve body by using the provided tool. Ensure the valve core and lock ring are firmly tightened. (Figure 8)
- Step5 : Re-inflate the tire to the 7.5 BAR (110 PSI) pressure. (Figure 9)
- Step6 : Gently shake and spin the WheelSystem to distribute the sealant throughout the inside cavity of the tire and coat the entire inner surface to achieve the best performance. (Figures 10.1-10.4)
- Step7 : Install the WheelSystem according to the wheel and/or bicycle owner's manual, inflate the tire to recommended riding pressure, close the valve and go for a ride.



## Brakes:

### IMPORTANT:

Braking with carbon rims at slow speed may cause a shuddering sensation. Only use CADEX brake pads for carbon rims to ensure best braking performance. Other pads may not provide sufficient braking performance and could overheat the rim, causing the carbon fibers to delaminate. Failure to follow may lead to personal injury and void of your warranty. Consult an authorized CADEX dealer for recommended brake pads.



### CAUTION :

1. Check the compatibility of the brakes, especially the brake interface of the frame, fork and wheel. Mount the brake set and its components to the manufacturer's recommendations.
2. When mounting and adjusting rim brake pads, ensure to position the pads at least 3mm from the rim edge (Figure 11).  
Mounting closer to the rim edge may result in overheating during continuous braking or damage to the carbon fiber.

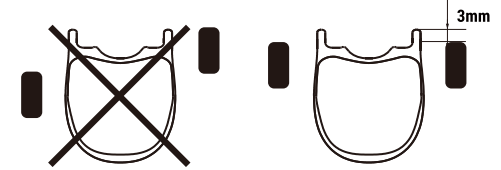


Figure 11



### WARNING

Incorrect adjustment of the brake pads will void the warranty.

3. The installation of center lock type disc brake rotor is shown in Figure 12. Please follow the disc brake manufacturer's instruction for rotor installation.

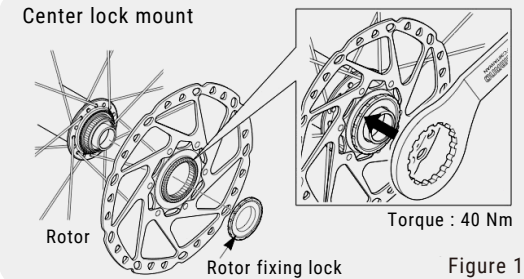


Figure 12



### CAUTION :

- Rims for disc brake wheels are designed to be used with disc brakes only. Do not use rim brakes on a disc brake wheel.
- Rims damaged by using non-CADEX exclusive brake pads are not covered by the product warranty.
- A rim will wear out with normal use. Check rims before and after each ride for signs of excessive wear and have the rim replaced as soon as it exhibits any signs that it is worn out or damaged.
- Always brake with both brakes at the same time. Avoid continuous hard braking, this can overheat the rim and may lead to tire failure.
- Braking power is also reduced if the rim is wet or if you have new wheels or new brake pads. Adjust your manner of riding accordingly.
- Consult your local authorized CADEX retailer for any questions on this section.

# MAINTENANCE & CARE

1. Load limit of your product (the weight of rider + bike + luggage)
  - WheelSystems for road bike: 285 lbs. / 129kg
2. Storing your WheelSystems
  - Carbon WheelSystems may be damaged by improper storing. Do not hang the bike by the wheel while displaying or storage.(Figure 13)



## CAUTION :

Use caution when attached the bike to a car rack as the the unpredictable high forces of the retention devices may cause damage to the wheels

3. Contact your authorized CADEX retailer for all wheel service needs. Have the spoke tension and the wheel trueness checked regularly. Spoke tension that is too high or too low can cause high operating loads of the wheel components and could lead to a premature failure caused by material fatigue.
4. Check the wheels before and after every ride for any damage. Do not ride the wheels under any circumstances if there is any damage to the rim or other components of the wheels. For example: deformation of the braking surface, cracks in the rim, broken spokes, and looseness or play in the bearings.

If this is the case, contact your authorized CADEX retailer to resolve the problem.

5. Get your bike checked by authorized CADEX retailer after every accident that may result in damage to your WheelSystems.

## 6. CLEANING:

- A. Wheels must be cleaned frequently with a soft sponge and neutral cleaner (such as mild soap and water). Do not use solvents (e.g. acetone, mineral spirits, etc.).
- B. Hub: The front and rear hub must be maintained at least once a year. If used regularly under extreme conditions (e.g. strong rain, mud, transport in rain, etc.) the driver body should be maintained more frequently. Frequent maintenance of the hubs guarantees a longer life span and optimal performance over time. Use of high-pressure water or strong cleaner may inject external contaminants into the hub and should be avoided. Do not use strong solvents. (e.g. acetone, mineral spirits, etc.).
- C. Sealant: to retain proper air tightness and puncture repair functionality, follow below mentioned maintenance frequency:

- Every 2 months: check and refill sealant as necessary
- Once per year: Remove old or dry sealant and use only a cloth rag to wipe the inside of the tire.

Improper maintenance may result in failure of sealant functionalities.

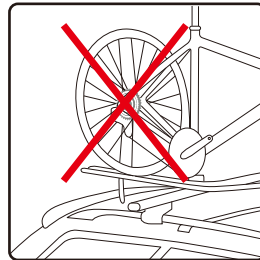
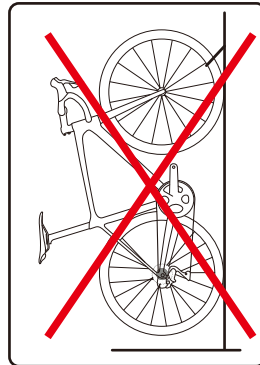


Figure 13



## CAUTION:

- Before riding your bicycle, check the tire pressure and clean all contaminants and brake pad residue (grit, dirt, oil, etc.) from the tires, brake pad and braking surface (particularly any traces of oil or grease) and check the wear of the brake pads, brake surface of the rim before every ride. Replace worn out brake pads with new ones to maintain optimum braking effect.
- If you use CADEX Tubeless WheelSystems with tubeless tires, check your tire after riding your bicycle. If tire damage exists which the sealant cannot seal, your tire structure is damaged, replace your tire.



## WARNING

To avoid damage to your carbon products, do not store or transport the product in a manner that the product is exposed to constant high temperatures. Excessive heat can damage the resin that joins the carbon fibers. Keep product is a minimum of 45cm (18 inches) away from any constant source of heat, for example car exhaust, heaters, open fire, etc. Do not exceed 150°F (65°C) exposure to your carbon products.

# CADEX LIMITED WARRANTY

- Giant Manufacturing Co., Ltd. or its affiliated company which is registered in the country where you purchased your CADEX WheelSystem ("CADEX") warrants it's CADEX WheelSystems ("Product") for a period of two (2) years from the date of purchase for the original owner only.
- Online registration of your CADEX WheelSystem within 8 weeks of the purchase date makes you eligible for the CADEX Incident Replacement Program. Please see <https://www.CADEX-cycling.com> for further information.

This warranty applies only to this product when purchased new from an Authorized CADEX dealer and assembled by that dealer at the time of purchase.

## LIMITED REMEDY

Unless otherwise provided, the sole remedy under the above warranty, or any implied warranty, is limited to the replacement of defective parts with those of equal or greater value at the sole discretion of CADEX.

This warranty extends from the date of purchase, applies only to the original owner, and is not transferable. In no event shall CADEX be responsible for any direct, incidental or consequential damages, including, without limitation, damages for personal injury, property damage, or economic losses, whether based on contract, warranty, negligence, product liability, or any other theory.

## EXCLUSIONS

The above warranty, or any implied warranty, does not cover:

- Normal wear and tear on parts in situations where there are no assembly or material defects.
- Consumable components including tires, rim tapes, spokes, brake pads, bearings, and tubeless tire sealant.
- Damage while using non-approved brake pads or tires on your product.
- Products serviced by other than an authorized CADEX dealer.
- Modifications of the product from its original condition.
- Use of product in abnormal, competition and/or commercial activities or for purposes other than those for which this product was designed.

- Damage caused by failing to follow this manual.
- Paint, finish and decal damage resulting from taking part in competitions, jumping, downhill and/or training for such activities or events or as a result of exposing the product to, or operating Product in, severe conditions or climates.
- Labor charges for part replacement or changeover.

Except as is provided by this warranty and subject to all additional warranties, Giant, CADEX or their employees and agents shall not be liable for any loss or damage whatsoever (including incidental and consequential loss or damage caused by negligence or default) arising from or concerning any CADEX product.

Giant and CADEX make no other warranties, express or implied. All implied warranties, including the warranties of merchantability and fitness for a particular purpose are limited in duration to that of the express warranties stated above.

Any claim against this warranty must be made through an Authorized CADEX Dealer. The purchase receipt or other proof of the date of purchase is required before a warranty claim may be processed.

Claims made outside the country of purchase may be subject to fees and additional restrictions. Warranty duration and details may differ by country. This warranty gives you specific legal rights, and you may also have other rights which may vary from place to place.

**THIS WARRANTY DOES NOT AFFECT YOUR STATUTORY RIGHTS.**

## Additions for Australia

In relation to goods sold in Australia, the following terms form part of this CADEX warranty in addition to the terms set out above. To the extent of any inconsistency between the below terms and the terms of the warranty set out above, the below terms will prevail.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. This CADEX warranty does not exclude, restrict or modify any such statutory right or remedies.

The Remedy and Exclusions outlined above operate in addition to all rights and remedies to which you may be entitled under the Australian Consumer Law and any other relevant legislation and are not intended to exclude, restrict or modify any such rights or remedies.

Any claim under this additional CADEX warranty must be made in person through an Authorized CADEX Dealer or distributor. Any cost incurred by you in making a claim under this warranty will be borne by you. Except as is provided by this warranty and subject to any rights or remedies to which you may be entitled under the Australian Consumer Law or other relevant law in relation to the goods to which this warranty relates, CADEX and its employees and agents shall not be liable for any other loss or damage whatsoever (including incidental and consequential loss or damage caused by negligence or default) arising from or concerning any Giant bicycle.

The benefits given to you by this CADEX warranty are in addition to other rights and remedies you may have under a law in relation to the goods to which this CADEX warranty relates. This CADEX warranty does not exclude, restrict or modify any such statutory rights or remedies.

The additions of the CADEX warranty are given by:

Name: Giant Bicycle Co. Pty Ltd

Company address: Unit 7, 3-5 Gilda Court, Mulgrave, Victoria, Australia

Company telephone number: (03)8541-4800

Company email address: [info@giantbikes.com.au](mailto:info@giantbikes.com.au)