

**CADEX**

## **CADEX WHY?**

We believe in taking moonshots.

## **CADEX HOW?**

Better components through unrivaled engineering expertise, a mastery of the next generation of material technologies, investment in advanced production processes, and by pushing the boundaries of research of the bike and rider in motion.

## **CADEX WHAT?**

Ultra-performance cycling components.


## **THE PURSUIT OF PINNACLE PRODUCT**

We have set our sights on making the industry's best-performing cycling components. The pursuit of pinnacle product will embolden us to be curious in ways we have not yet been. It will inspire us to deepen our study of the bike and rider in motion. It will animate us to invest in the development of new technologies and to reach out to new partners. It will push us to deepen our collaboration with the professionals who race our products and to understand what it means to achieve pinnacle performance.

## GENERAL WARNING

Like any sport, bicycling involves risk of injury and damage. By choosing to ride a bicycle, you assume the responsibility for that risk, so you need to know – and to practice – the rules of safe and responsible riding and of proper use and maintenance. Proper use and maintenance of your bicycle reduces risk of injury.

This Manual contains many “Warnings” and “Cautions” concerning the consequences of failure to maintain or inspect your bicycle and of failure to follow safe cycling practices.

- The combination of the  safety alert symbol and the word **WARNING** indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death.
- The word **CAUTION** used without the safety alert symbol indicates a situation which, if not avoided, could result in serious damage to the bicycle or the voiding of your warranty.

Many of the warnings and cautions say “you may lose control and fall”. Because any fall can result in serious injury or even death, we do not always repeat the warning of possible injury or death.

Because it is impossible to anticipate every situation or condition which can occur while riding, this manual makes no representation about the safe use of the bicycle under all conditions. There are risks associated with the use of any bicycle which cannot be predicted or avoided, and which are the sole responsibility of the rider.

## IMPORTANT INFORMATION

This manual contains important safety, performance and service information. Read it before you take the first ride on your new bicycle, and keep it for reference.

Additional safety, performance and service information for specific components such as or pedals on your bicycle, or for accessories such as helmets or lights that you purchase, may also be available. Make sure that your dealer has given you all the manufacturers’ literature that was included with your bicycle or accessories. In case of a conflict between the instructions in this manual and information provided by a component manufacturer, always follow the component manufacturer’s instructions.

If you have any questions or do not understand something, take responsibility for your safety and consult with your dealer or the bicycle’s manufacturer.

## A SPECIAL NOTE FOR PARENTS

As a parent or guardian, you are responsible for the activities and safety of your child, and that includes making sure that the bicycle is properly fitted to the child; that it is in good repair and safe operating condition; that you and your child have learned and understand the safe operation of the bicycle; and that you and your child have learned, understand and obey not only the applicable local motor laws, but also the common sense rules of safe and responsible bicycling. As a parent, you should read this manual, as well as review its warnings and the bicycle's functions and operating procedures with your child, before letting your child ride the bicycle. Failure to follow this warning could result in serious injury or death.

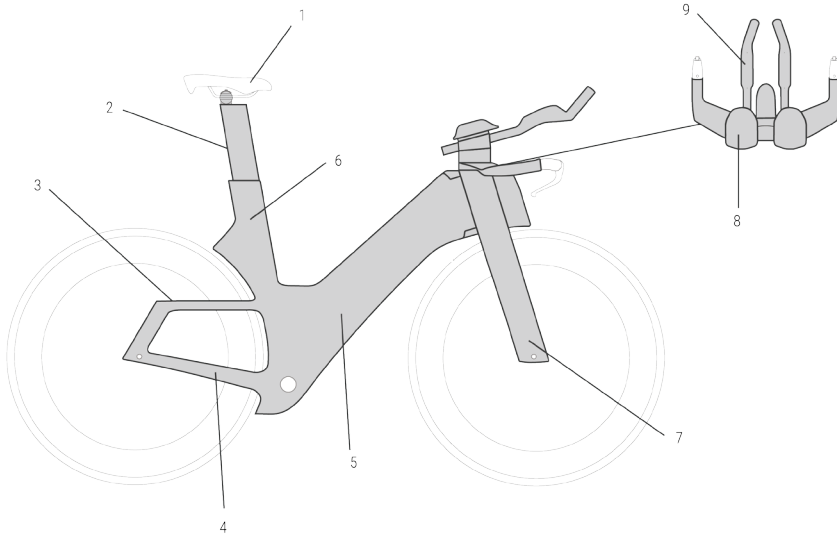
If you have any questions or do not understand something, take responsibility for your safety and consult with your dealer or the bicycle's manufacturer.

If you need more information, please visit the manual section on the CADEX website [www.CADEX-cycling.com](http://www.CADEX-cycling.com) or scan the QR code.



## WHAT IT'S CALLED

The bike illustrations indicate basic bicycle components. Your specific bicycle models may not be shown, please visit our website for more specific information.



1	Saddle	4	Chain Stay	7	Composite Front Fork
2	Seatpost	5	Down Tube	8	Arm Cup
3	Seat Stay	6	Seat Tube	9	Extensions

# CHAPTER 1

## BASIC SAFETY

### BE SEEN, BE NOTICED

Light, as an accessory, contributes to better safety for it is an active to incoming and rear side approaching traffic. A bell enables active warning to surrounding road users. Reflectors, though being a passive device, are long-proven to be effective for safety. Above items may also be regulated by local authorities and having them equipped in your country can be mandatory. Consult your local dealer if in doubt.

### ALL ABOUT CONTROL

To slow down your bike is way more important than to go full speed ahead. Always get familiarized with your brake orientation and braking power. While most countries have the brakes fitted with right-hand side as rear brake and left hand as front brake as default setup, particular countries may have the brakes fitted in the opposite way. Braking power can vary between different types of brakes. Generally, rim-style and disc-style brake yield different characteristics and feedback. Misuse of the brake in an unexcepted situation can lead to crashes and serious injury. As a bicycle user, it is your responsibility to ensure the brake setup and performance prior to any prolonged riding.

#### A. CYCLING HELMET

Always wear a cycling helmet which meets the latest certification standards and is appropriate for the type of riding you do. Always follow the helmet manufacturer's instructions for fit, use and care of your helmet. Most serious bicycle injuries involve head injuries which might have been avoided if the rider had worn an appropriate helmet. If you have any questions regarding correct helmet fit, use or care please ask your dealer.

#### WARNING

Failure to wear a helmet when riding may result in serious injury or death. The area in which you ride may require specific safety devices. It is your responsibility to familiarize yourself with the laws of the area where you ride and to comply with all applicable laws, including properly equipping yourself and your bike as the law requires.

Observe all local bicycle laws and regulations. Observe regulations about bicycle lighting, licensing of bicycles, riding on sidewalks, laws regulating bike path and trail. It is highly recommended to wear an authority approved bicycle helmet whenever you ride. Be mindful wearing a helmet may be mandatory according to the local regulations in your country / region. Bicycle helmets are categorized into different scenarios from daily commute to extreme sports, therefore, be sure to wear a helmet that is suitable for your intended use.

#### B. SEAT HEIGHT ADJUSTMENT

Correct saddle adjustment is an important factor for getting the most performance and comfort from your bicycle. Standover height is the basic element of bike fit. If the saddle position is not comfortable for you, see your dealer.

The saddle can be adjusted in three directions:

Up and down adjustment. To check for correct saddle height

- Sit on the saddle.
- Place one heel on a pedal; rotate the crank until the lowest position and the crank arm is parallel to the seat tube.

Your leg should be fully extended without changing your seating position, use, helmet laws, child carrier laws, special bicycle traffic laws. It's your responsibility to know and obey the laws. If your leg is not fully extended (the seat is too low), raise the seat a bit and measure again. If your leg is overly stretched (the seat is too high), lower the seat a bit and measure again.

### C. SEATPOST

For structural and safety concerns a minimum of 80 mm seatpost insertion in the frame is required. Always ascertain yourself after any saddle height adjustment was made. Fail to comply will void the warranty. On certain models, the seatpost may have insertion scale marked either on the front or rear side. This is also an indication of the amount of insertion. The line of minimum insertion or safety line on the seatpost should never be visible under any circumstance.

#### WARNING

A seatpost that is positioned too high can damage the bike and can cause you to lose control and fall. Make sure the seat post is inserted in the frame at least 80mm.

#### WARNING

When making saddle angle adjustments with a single bolt saddle clamp, always check to make sure that the serrations on the mating surfaces of the clamp are not worn. Worn serrations on the clamp can allow the saddle to move, causing you to lose control and fall.

Always tighten fasteners to the correct torque. Bolts that are too tight can stretch and deform. Bolts that are too loose can move and fatigue. Either mistake can lead to a sudden failure of the bolt, causing you to lose control and fall.

### D. SADDLE

Forward and backward adjustment. The saddle can be adjusted forward or back to help you get the optimal position on the bike. Ask your dealer to set the saddle for your optimal riding position and to show you how to make this adjustment. If you choose to make your own forward and backward adjustment, make sure that the clamp mechanism is clamping on the straight part of the saddle rails and is not touching the curved part of the rails and that you are using the recommended torque on the clamping fastener(s).

## CHAPTER 2

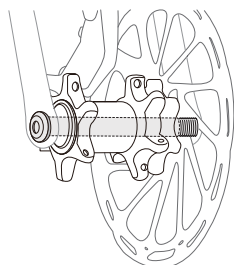
### HOW THINGS WORK ON YOUR BICYCLE

It's important for your safety, performance and enjoyment to understand how things work on your bicycle. We urge you to ask your dealer how to do the things described in this section before you attempt them yourself, and that you have your dealer check your work before you ride the bike.

#### WHEELS

Types of wheel attachment	Application
Thru-axle	The modern way on most disc-brake bikes (see Figure2.1)

Figure 2.1



An easy way to check if the wheel is properly secured is to grab the wheel and attempt to move it sideways. If any play or knocking is felt, that can be from a loose wheel fastener.

Types of wheel attachment	Tool
Thru-axle	Use a hex / allen key If it comes with a handle, rotate the handle until it's hand-tight

#### BRAKES

##### **⚠ WARNING**

Riding with improperly adjusted brakes, worn brake pads, or wheels on which the rim wear mark is visible is dangerous and can result in serious injury or death.

##### **⚠ WARNING**

Never shift a derailleur onto the largest or the smallest sprocket if the derailleur is not shifting smoothly. The derailleur may be out of adjustment and the chain could jam, causing you to lose control and fall.



## TIRES

Recommended tire size: 700x25C-28C

ISO 4210-2:4.10.2 standard for tire clearance states that a minimum of 4mm of clearance must remain between the tire and any frame element. Please contact the authorized CADEX dealer store for additional information

## TIGHTENING TORQUES FOR CADEX BIKES

Register your new CADEX product on the CADEX website within 8 weeks of the product delivered date, and you'll be enrolled in lifetime warranty for frame.

Applying the correct torque values when tightening threaded fasteners is very important for your safety. Always tighten fasteners to the correct torque. The torque specifications can usually be found on or near the bolt or concerning parts itself. If there is no torque specification indicated, then check the owner's manual section on the CADEX website or ask your dealer for support. In case of any uncertainty regarding correct tightening torques, always consult the manuals of the concerning component or with your CADEX dealer for further clarification.

Bolts that are too tight can stretch and deform, bolts that are not tight enough can move and fatigue. In both cases it can lead to an unexcepted failure of the bolt. Always use a correctly calibrated torque wrench for tightening critical fasteners on your bike.

Please make sure to always follow the torque wrench manufacturer's instructions on the correct way to set and use the torque wrench for accurate results.

## CHAPTER 3 MAJOR SERVICE AND WARRANTY INFORMATION

If you want to learn to do major service and repair work on your bike:

- A. Ask your dealer for copies of the manufacturer's installation and service instructions for the components on your bike, or contact the component manufacturer.
- B. Ask your dealer to recommend a book or website.
- C. Ask your dealer about the availability of bicycle repair courses in your area.

Below is a quick reference chart on warranty period,

Warranty Period	1 year	2 years	10 years	Lifetime
Paint finish & decal	√			
Components <ul style="list-style-type: none"> <li>• Handlebars</li> <li>• Seatpost</li> </ul>		√		
Fourche en Composite			√	
Frame				√
Parts not mentioned above	√			
*warranty period is to be determined by its original brand				

### LIMITED WARRANTY

CADEX warrants for the original owner only the frame, rigid fork, or original component parts of each new CADEX brand bicycle to be free from defects in material and workmanship for the following specified periods.

### REQUIRED ASSEMBLY WHEN PURCHASED

This warranty applies only to bicycles and framesets 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.

**⚠ WARNING**

Technological advances have made bicycles and bicycle components more complex, and the pace of innovation is increasing. It is impossible for this manual to provide all the information required to properly repair and/or maintain your bicycle. In order to help minimize the chances of an accident and possible injury, it is critical that you have any repair or maintenance which is not specifically described in this manual performed by your dealer. Equally important is that your individual maintenance requirements will be determined by everything from your riding style to geographic location. Consult your dealer for help in determining your maintenance requirements.

**⚠ WARNING**

Many bicycle service and repair tasks require special knowledge and tools. Do not begin any adjustments or service on your bicycle until you have learned from your dealer how to properly complete them. Improper adjustment or service may result in damage to the bicycle or in an accident which can cause serious injury or death.

CADEX provides limited warranty to the original owner. The product must be purchased new via authorized dealer or CADEX Store. Proof of purchase may be mandatory upon a claim.

Full warranty information, including exclusions, can be referred in the complete manual.

## **THE LIFESPAN OF YOUR BIKE AND ITS COMPONENTS NOTHING LASTS FOREVER, INCLUDING YOUR BIKE.**

When the useful life of your bike or its components is over, continued use is hazardous.

Every bicycle and its component parts have a finite, limited useful life. The length of that life will vary with the construction and materials used in the frame and components; the maintenance and care the frame and components receive over their life; and the type and amount of use to which the frame and components are subjected. Use in non-triathlon events, trick riding, ramp riding, jumping, aggressive riding, riding on severe terrain, riding in severe climates, riding with heavy loads, commercial activities and other types of non-standard use can dramatically shorten the life of the frame and components. Any one or a combination of these conditions may result in an unpredictable failure.

All aspects of use being identical, lightweight bicycles and their components will usually have a shorter life than heavier bicycles and their components. In selecting a lightweight bicycle or components you are making a tradeoff, favoring the higher performance that comes with lighter weight over longevity. So, if you choose lightweight, high performance equipment, be sure to have it inspected frequently.

These are important safety checks and very important to help prevent accidents, bodily injury to the rider and shortened product life.

Factors that shorten product life:

- Hard, harsh riding style
- "Hits", crashes, jumps, other "shots" to the bike
- High mileage
- Higher body weight

- Stronger, more fit, more aggressive rider
- Corrosive environment (wet, salt air, winter road salt, accumulated sweat)
- Presence of abrasive mud, dirt, sand, soil in riding environment

Factors that lengthen product life:

- Smooth, fluid riding style
- No "hits", crashes, jumps, other "shots" to the bike
- Low mileage
- Lower body weight
- Less aggressive rider
- Non-corrosive environment (dry, salt-free air)
- Clean riding environment

### **▲ WARNING**

Do not ride a bicycle or component with any crack, bulge or dent, even a small one. Riding a cracked frame, fork or component could lead to complete failure, with risk of serious injury or death.

## **EXCLUSIONS**

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

- Normal wear and tear on parts such as ties, chains, brakes, cables and gearwheels in situations where there are no assembly or material defects.
- Bicycles serviced by other than an Authorized CADEX Dealer.
- Modifications from the original condition.
- Use of the bicycle for abnormal activities or for purposes other than those for which the bicycle was designed.
- Damage caused by failing to follow the owner's manual.
- Paint, finish and decal damage resulting from taking part in jumping, downhill and / or training for such activities or events or as a result of exposing the bike to, or riding the bike in, severe conditions or climates.
- Labor charges for part replacement or changeover.

## **UNDERSTANDING COMPOSITES**

All riders must understand a fundamental reality of composites. Composite materials constructed of carbon fibers are strong and light, but when crashed or overloaded, carbon fibers do not bend, they break.

## WHAT ARE THE LIMITS OF COMPOSITES?

Well designed "composite" or carbon fiber bicycles and components have long fatigue lives, usually better than their metal equivalents. While fatigue life is an advantage of carbon fiber, you must still regularly inspect your carbon fiber frame, fork, or components.

Carbon fiber composites are not ductile. Once a carbon structure is overloaded, it will not bend; it will break. At and near the break, there will be rough, sharp edges and maybe delamination of carbon fiber or carbon fiber fabric layers. There will be no bending, buckling, or stretching.

## IF YOU HIT SOMETHING OR HAVE A CRASH, WHAT CAN YOU EXPECT FROM YOUR CARBON FIBER BIKE?

Let's say you hit a curb, ditch, rock, car, other cyclist or other object. At any speed above a fast walk, your body will continue to move forward, the CADEX carrying you over the front of the bike. You cannot and will not stay on the bike and what happens to the frame, fork and other components is irrelevant to what happens to your body.

What should you expect from your carbon frame? It depends on many complex factors, which is why we tell you that crash worthiness cannot be a design criteria. But we can tell you that if the impact is hard enough, the fork or frame may be completely broken. Note the significant difference in behavior between carbon and metal.

### WARNING

Never use clamping devices on the tubes of carbon frames. Clamps such as those found on bicycle work stands and car racks can cause serious damage to the carbon frame.

### IMPORTANT

Write down your CADEX bicycle model and serial number for your records. Check with your Authorized CADEX Dealer to determine the serial number location. Put your receipt of sale or proof of purchase in this manual for reference. This record will also help you with any police investigation or insurance claim.

**MODEL NUMBER:**

**SERIAL NUMBER:**

**COLOR:**

**DATE PURCHASED:**

**DEALER NAME:**

**DEALER ADDRESS:**

Please register here.  
Point the camera at the QR code.



#### **NOTE**

CADEX Bicycle, Inc., cannot guarantee individual records of serial numbers. If there is a loss or theft, your personal records will be needed. Your bill of sale should be kept for any warranty service.

## **POSITION OF THE FRAME SERIAL NUMBER**

You will find the frame number of your CADEX bicycle on the seat tube near the bottom bracket shell (crankset housing), on the underside of the bottom bracket shell or on the left rear dropout (rear hub).

## CADEX OFFICES / DISTRIBUTORS WORLDWIDE

Region	Country	Company	Contact
North Americas	Canada	GIANT BICYCLE CANADA INC.	No. 100-2255 Dollarton Highway, North Vancouver, BC V7H 3B1, Canada.
	USA	GIANT BICYCLE, INC	3587 Old Conejo Road Newbury Park CA 91320, U.S.A
Central / South Americas	Other American Countries	Local Agents / Distributors	www.cadex-cycling.com
Asia	Japan	GIANT (JAPAN) CO., LTD.	2-44-3 Kosugigoten-CYO Nakaharaku Kawasaki-Shi Kanagawa Japan
	Korea	GIANT KOREA CO., LTD	Achasan-ro 33 (Seongsu-dong 1-ga), Seongdong-gu, Seoul, 133-110 Korea
	Other Asian Countries	Local Agents / Distributors	www.cadex-cycling.com
Africa	Other African Countries	Local Agents / Distributors	www.cadex-cycling.com
Europe	Benelux (Incl. Denmark)	GIANT BENELUX B.V	Pascallaan 66, 8218 NJ, Lelystad, The Netherlands
	France (Incl. Spain)	GIANT S.A.R.L FRANCE	780 rue Guillibert de la Lauziere Pichaury 2 - Les Milles 13290 Aix En Provence
	Germany (Incl. Austria)	GIANT DEUTSCHLAND GmbH	Mettmanner Straße 25, 40 699, Erkrath, Germany
	Poland	GIANT POLSKA SP. Z O.O.	Ul. Osmańska 12 Warszawa
	UK	GIANT UK LTD.	Charnwood Edge, Syston Road, Cossington , LE7 4UZ , UK
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