

PLEASE VISIT YOUR AUTHORIZED BATCH RETAILER FOR
SERVICE AND QUESTIONS.



Batch Bicycles
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 **OWNER'S MANUAL**
for *Fitness Bikes*

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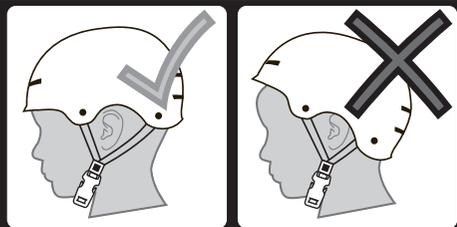
Warranty35

• **Contact Information****Back Cover**

This manual contains important safety, assembly, operation and maintenance information. Please read and fully understand this manual before operation. Save this manual for future reference.

ALWAYS WEAR YOUR HELMET WHEN RIDING THIS PRODUCT!

Always read the user manual that comes with your helmet to make sure it is fitted and attached properly to the wearer's head according to the fitting instructions described in the user manual.



BATCH Limited Warranty

We've Got You Covered

Batch Bicycles comes with our industry's best warranty program – Batch Bicycles Service Program. Once your Batch Bicycle is registered, Batch Bicycles provides each original retail purchaser of a Batch Bicycle a warranty against defects in materials and workmanship, as stated below:

General:

Part or model specifications are subject to change without notice.

This Limited Warranty is the only warranty for the product. ALL WARRANTIES OTHER THAN STATED HEREIN ARE DISCLAIMED INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TO THE EXTENT ALLOWABLE BY APPLICABLE LAW. ALL LIABILITY FOR INCIDENTAL, PUNITIVE, SPECIAL, OR CONSEQUENTIAL DAMAGES ARE EXPRESSLY DISCLAIMED, TO THE EXTENT ALLOWABLE BY APPLICABLE LAW.

The only uses for this product are described in this manual.

In order to be eligible for service under this Limited Warranty you MUST complete the on-line warranty registration within 30 days of the date of original purchase of the product.

The Limited Warranty extends only to the original consumer and is not transferable to anyone else.

What does this Limited Warranty cover?

This Limited Warranty covers defects in workmanship and materials for all parts of the product except those indicated below as not warranted.

What must you do to keep the Limited Warranty in effect?

This Limited Warranty is effective only if:

Product is completely and correctly assembled.

Product is used under normal conditions for its intended purpose (see the following section for excluded activities).

Product receives all necessary maintenance and adjustments.

Product is used for general transportation and recreational use only.

What is not covered by this Limited Warranty?

This product is designed for recreational use only.

This Limited Warranty does not cover normal wear and tear, normal maintenance items, or any damage, failure, or loss that is caused by improper assembly, maintenance, adjustment, storage, or use of the product. This limited warranty does not extend to future

performance.

This Limited Warranty will be void if the product is ever:

- Used in any competitive sport
- Used for stunt riding, jumping, aerobatics or similar activity
- Modified in any way
- Modified with the addition of a motor
- Ridden by more than one person at a time
- Rented, sold, or given away
- Used in a manner contrary to the instructions and warnings in this Owner's Manual

What will The Manufacturer do?

Manufacturer's sole and exclusive obligation under this Limited Warranty is to repair and/or replace, at its sole option, any covered defect in workmanship or materials.

How do you get service once you have registered your product for limited warranty coverage as described above?

Contact your authorized Batch Bicycles retailer.

What rights do you have?

This Limited Warranty gives you specific legal rights. You may also have other rights which vary from State to State.

For how long does this Limited Warranty last?

- Steel rigid fork: Lifetime when owned by the original retail purchaser.
- Aluminum Frame: Lifetime when owned by the original retail purchaser.
- Any other original part or component shall be covered by the stated warranty of the original manufacturer. Any products not specifically included above are hereby omitted.
- All Batch Bicycle parts and accessories: 1 year
- All time frames stated in this Limited Warranty are measured from date of original retail purchase.

When used in this Limited Warranty, "Lifetime" means for as long as the original retail purchaser owns the product.

Owner's Bicycle Identification Record

NOTE: This information is only available on the bicycle itself.

Each bicycle has a Recovery Code stamped into the frame. The Recovery Code ① can be found on the bottom of the crank housing as shown.

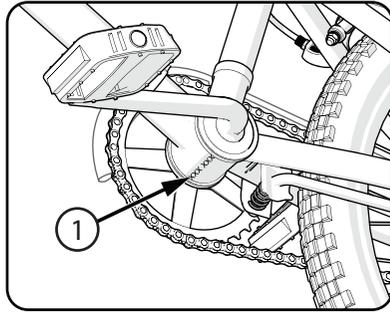
Write this number below to keep it for future reference.

If the bicycle is stolen, give this number and a description of the bicycle to the police. This will help them find the bicycle.

Recovery Code:

Purchase Date:

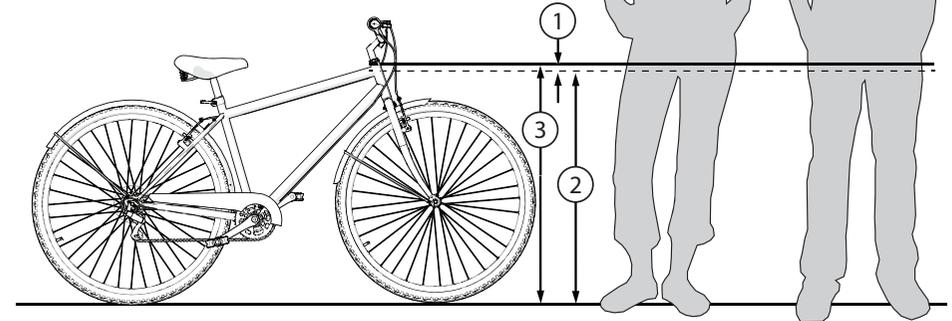
Model Name:



Fitting the Rider to the Bicycle

To determine the correct size of bicycle for the rider:

- Straddle the assembled bicycle with feet shoulder width apart and flat on the ground.
- There must be at least 1 inch (2.5 cm) of clearance ① between the highest part of the top tube ② and the crotch of the rider with tires properly inflated.
- The minimum leg-length for the rider is the highest part of the top tube plus one inch ③.
- **NOTE:** See Assembly sections for Seat adjustment.



! **IMPORTANT!!** Read All Warning And Safety Information **➔**

Warning and Safety Information

MEANINGS OF WARNINGS:



This symbol is important. See the word “**CAUTION**” or “**WARNING**” which follows it. The word “**CAUTION**” is before mechanical instructions. If you do not obey these instructions, mechanical damage or failure of a part of the bicycle can occur.

The word “**WARNING**” is before personal safety instructions. If you do not obey these instructions, injury to the rider or to others can occur.

- CHOKING HAZARD. Small parts. Not for children under 3 years.
- Adult assembly is required.
- Handlebar hand grip or tube end plugs should be replaced if damaged as bare tubes have been known to cause injury. All products with capped handlebar ends should be checked regularly to ensure that adequate protection for the ends of the handlebars are in place.
- Replacement forks must have the same rake and tube inner diameter as the original product.
- Do not add a motor to the product.
- Do not tow or push the product.
- Do not modify the product.
- Replace worn or broken parts immediately with original equipment.
- If anything does not operate properly, discontinue use.

The Owner’s Responsibility



WARNING: This bicycle is made to be ridden by one rider at a time for general transportation and recreational use. It is not made to withstand the abuse of stunting and jumping.

If the bicycle was purchased unassembled, it is the owner’s responsibility to follow all assembly and adjustment instructions exactly as written in this manual, and any “Special Instructions” supplied and to make sure all fasteners and components are securely tightened.

NOTE: Periodically check that all fasteners and components are securely tightened.

If the bicycle was purchased assembled, it is the owner’s responsibility, before riding the bicycle for the first time, to make sure the bicycle has been assembled and adjusted exactly as written in this manual, and any “Special Instructions” supplied and to make sure all fasteners and components are securely tightened.

NOTE:

If product is assembled, please proceed to sections:

- Testing Stem, Handlebar
- Seat Clamp tightness.

Inspection of the Bearings

Maintenance:

Frequently check the bearings of the bicycle. Have a bicycle service shop lubricate the bearings once a year or any time they do not pass the following tests:

Headset Bearings:

The fork should turn freely and smoothly at all times. With the front wheel off the ground, you should not be able to move the fork up, down, or side-to-side in the head tube.

Crank Bearings:

The crank should turn freely and smoothly at all times and the front sprockets should not be loose on the crank. You should not be able to move the pedal end of the crank from side-to-side.

Wheel Bearings:

Lift each end of the bicycle off the ground and slowly spin the raised wheel by hand. The bearings are correctly adjusted if:

- The wheel spins freely and easily.
- The weight of the spoke reflector, when you put it toward the front or rear of the bicycle, causes the wheel to spin back and forth several times.
- There is no side-to-side movement at the wheel rim when you push it to the side with light force.

Lubrication

WARNING:

- Do not over lubricate. If oil gets on the wheel rims or the brake shoes, it will reduce brake performance and a longer distance to stop the bicycle will be necessary. Injury to the rider or to others can occur.
- The chain can throw excess oil onto the wheel rim. Wipe excess oil off the chain.
- Keep all oil off the surfaces of the pedals where your feet rest.
- Using soap and hot water, wash all oil off the wheel rims, the brake shoes, the pedals, and the tires.
- Rinse with clean water and dry completely before you ride.
- Using a light machine oil (20W), lubricate the bicycle according to the following table:

Lubrication Table (as equipped)

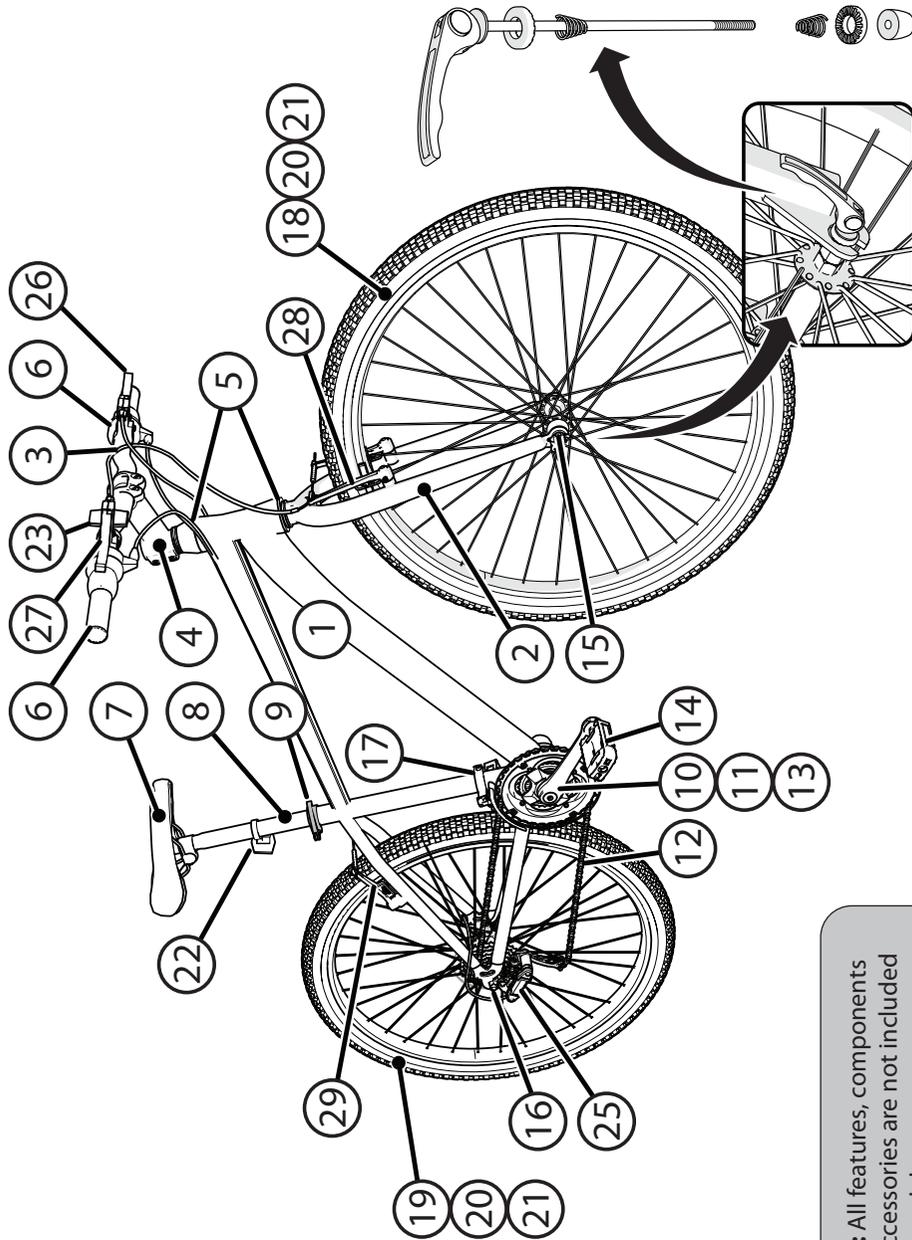
| What | When | How |
|-----------------------|------------------|---|
| Pedals | every six months | Put four drops of oil where the axles go into the pedals. |
| Chain | every six months | Put one drop of oil on each roller of the chain. Wipe all excess oil off the chain. |
| Derailleurs | every six months | Put one drop of oil on each pivot point of the derailleurs. |
| Brake Levers | every six months | Put one drop of oil on the pivot point of each brake lever. |
| Wheel Brakes | every six months | Put one drop of oil on the pivot point of each cantilever brake. |
| Brake and cable | every six months | Put four drops of oil into both ends of each cable. Allow oil to soak back along the cable wire. |
| Rear Sprocket Cluster | every six months | Lay the bicycle on its left side. Slowly turn the rear wheel clockwise. Put four drops of oil in the crack between the rear sprockets (which are stationary) and the freewheel body (which is turning clockwise). |
| Shock Fork | every six months | Lift up the rubber fork boot and dab a small amount of grease on the fork leg just above the plastic bushing. |

Rules of the Road

 **WARNING:** Failure of the rider to obey the following “Rules of the Road” can result in injury to the rider or to others.

- Obey all traffic regulations, signs, and signals.
- **Protective Equipment must be worn:** Always wear safety equipment such as a helmet that meets CPSC (or equivalent standard for your country) with chinstrap securely fastened, knee pads, elbow pads, wrist guards, gloves and shoes.
- Ride on the correct side of the road, in a single file, and in a straight line.
- If possible, avoid riding at night, dusk, dawn and any other time of poor visibility.
- **If you must ride at night or at time of poor visibility:**
 - Purchase, install, and use a headlight and taillight.
 - Headlights are required by all states for nighttime riding and taillights are required in some states.
 - Battery-powered lights or flashing safety lights are also recommended.
- **Reflectors:** For your own safety, do not ride the bicycle if the reflectors are incorrectly installed, damaged, or missing. Make sure the front and rear reflectors are vertical. Do not allow the visibility of the reflectors to be blocked by clothing or other articles. Dirty reflectors do not work well. Clean the reflectors, as necessary, with soap and a damp cloth.
 - Make yourself more visible to motorists.
 - Wear light-colored or reflective clothing, such as a reflective vest and reflective bands for your arms and legs.
 - Use reflective tape on your helmet.
 - Do not let anything cover the reflectors.
- **Use extra caution in wet weather:**
 - Ride slowly on damp surfaces because the tires will slide more easily.
 - Allow increased braking distance in wet weather.
- **Avoid these hazards to prevent loss of control or damage to your wheels:**
 - Be aware of drain grates, soft road edges, gravel or sand, pot holes or ruts, wet leaves, or uneven paving.
 - Cross railroad tracks at a right angle to prevent the loss of control.
 - Avoid unsafe actions while riding.
 - Do not carry any passengers.
 - Do not carry any items or attach anything to your bicycle that could hinder your vision, hearing, or control.
 - Do not ride with both hands off the handlebar.
 - Do not add a motor to the product.
 - Do not tow or push the product.
 - Do not modify the product.
 - Replace worn or broken parts immediately with original equipment.
 - If anything does not operate properly, discontinue use.

Parts Assembly

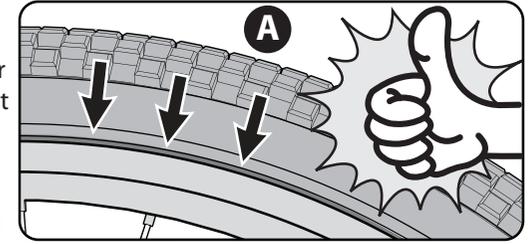


NOTE: All features, components and accessories are not included on all models.

Tires (as equipped)

MAINTENANCE:

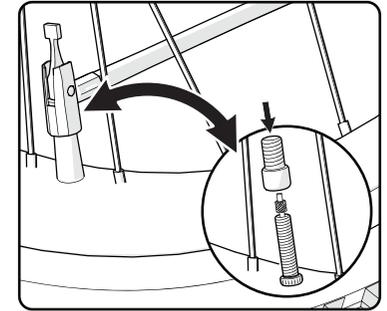
- Frequently check the tire inflation pressure because all tires lose air slowly over time. For extended storage, keep weight off of the tires.
- Do not use unregulated air hoses to inflate the tire/tubes. An unregulated hose can suddenly over inflate tires and cause them to burst.
- Replace worn tires.



! WARNING: Do not ride or sit on the unit if a tire is under inflated. This can damage the tire, inner tube and rim.

INFLATING THE TIRES:

- Use a hand or a foot pump to inflate the tires.
- Service station meter-regulated air hoses are also acceptable.
- The maximum inflation pressure is shown on the tire sidewall.



Before adding air to any tire, make sure the edge of the tire (the bead) is the same distance from the rim, all around the rim, on both sides of the tire **A**. If the tire does not appear to be seated correctly, release air from the inner tube until you can push the bead of the tire into the rim where necessary. Add air slowly and stop frequently to check the tire seating and the pressure, until you reach the correct inflation pressure.

Maintenance and Service

WARNING:

- Inspect the product frequently. Failure to inspect the product and to make repairs or adjustments, as necessary, can result in injury to the rider or to others. Make sure all parts are correctly assembled and adjusted as written in this manual and any “Special Instructions”.
- Immediately replace any damaged, missing, or badly worn parts with original equipment.
- Make sure all fasteners are correctly tightened as written in this manual and any “Special Instructions”. Parts that are not tight enough can be lost or operate poorly. Over tightened parts can be damaged. Make sure any replacement fasteners are the correct size and type.
- Self-locking nuts and other self-locking fasteners may lose their effectiveness when re-used.

NOTE: Have a bicycle service shop make any repairs or adjustments for which you do not have the correct tools or if the instructions in this manual or any “Special Instructions” are not sufficient for you.

Parts Assembly

| # | DESCRIPTION | # | DESCRIPTION |
|----|--------------------------------------|----|--|
| 1 | Frame | 16 | Rear Axle Nuts / Quick Release Axle |
| 2 | Fork | 17 | Front Derailleur |
| 3 | Handlebar | 18 | Front Wheel Assembly |
| 4 | Handlebar Stem | 19 | Rear Wheel Assembly |
| 5 | Headset Bearings | 20 | Tire (x2) |
| 6 | Shift and Grip Set (left and right) | 21 | Inner Tube (x2) |
| 7 | Seat with Clamp | 22 | Rear Reflector (rack, fender or seat post mount) |
| 8 | Seat Post | 23 | Front Reflector (handlebar or fork mount) |
| 9 | Seat Post Clamp | 24 | Kickstand (not shown) |
| 10 | Crank Set with Sprocket | 25 | Rear Derailleur |
| 11 | Crank Bearing Set | 26 | Left Brake Lever |
| 12 | Chain | 27 | Right Brake Lever |
| 13 | Chain Guard (styles may vary) | 28 | Front Brake |
| 14 | Pedal Set | 29 | Rear Brake |
| 15 | Front Axle Nuts / Quick Release Axle | | |

Introduction to Assembly

THIS OWNER'S MANUAL IS MADE FOR SEVERAL DIFFERENT BICYCLES:

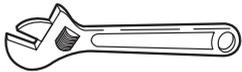
- Some illustrations may vary slightly from the actual product.
- Follow instructions completely.
- If the bicycle has any parts that are not described in this manual, look for separate "Special Instructions" that are supplied with the bicycle.
- Models may have different accessory items such as bags, baskets, reflectors, cup holders, racks, etc.
- All features, components and accessories are not included on all models.
- Use the Index page to locate specific sections of this manual.
- Please read through this entire manual before beginning assembly or maintenance.
- If you are not confident with assembling this unit, refer to a local bike shop.

⚠ WARNING: Keep small parts away from children during assembly.

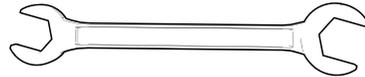
NOTE: All of the directions (right, left, front, rear, etc.) in this manual are as seen by the rider while seated on the bicycle.

Do not dispose of the carton and packaging until you complete the assembly of the bicycle. This can prevent accidentally discarding parts of the bicycle.

Tools Needed (not included)



Adjustable Wrench



Open-end Wrenches



Metric Allen Wrenches

Front Derailleur Adjustments - continued

Put the "high" adjusting screw  in the correct position as follows:

- Shift the chain onto the largest front sprocket and the smallest rear sprocket.
- Turn the "high" adjusting screw  so the right inside edge of the chain cage and the chain just do not touch.

NOTE: If the shift lever does not move easily:

- If the shift cable seems to stick, lubricate it.
- Do not lubricate the shift control.
- If the shift cable is sharply bent, rusted or has broken strands, replace it.

Perform the "Rear Derailleur Adjustments" if:

- The chain will not shift onto all the rear sprockets.
- The chain comes off the rear sprockets.
- The chain makes noise while on the smallest or largest rear sprocket.
- The rear derailleur rubs the spoke protector.

Front Derailleur Adjustments

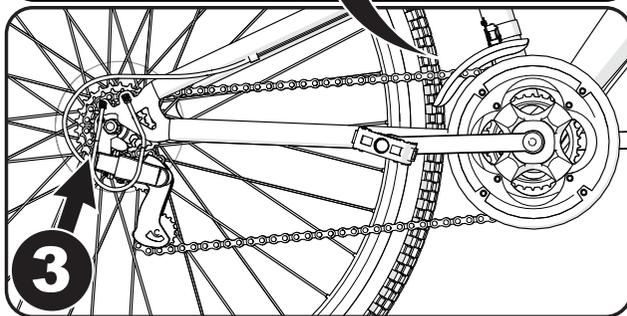
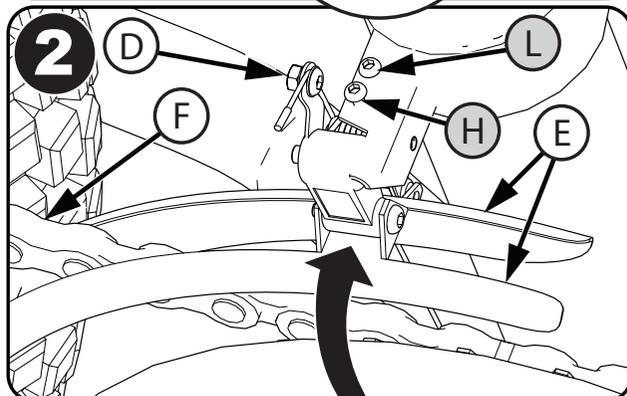
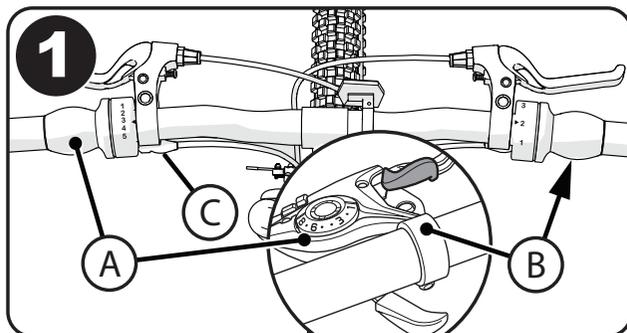
These instructions describe most adjustments that the shift system may need. If you can not adjust the shift system using these instructions, have a bicycle service shop do the adjustments that are needed.

The Handlebar Twist Grips (or Thumb Shifts) (**View 1**) control the Shift System. The Left Side (**A**) shifts the chain on the front sprockets (**View 2**). The Right Side (**B**) shifts the chain on the Rear Sprocket (**View 3**).

The front derailleur (**View 2**) has two adjusting screws. The "low" adjusting screw, sometimes marked **L**, limits how far the front derailleur and chain can move toward the frame. The "high" adjusting screw, sometimes marked **H**, limits how far the front derailleur and chain can move away from the frame.

Put the "low" adjusting screw **L** in the correct position as follows:

- Shift the chain onto the third largest rear sprocket and the smallest front sprocket.
- Turn the lever Barrel Adjuster **C** all the way IN.
- Loosen Nut **D** of the cable clamp.
- Turn the "low" adjusting screw **L** so the left inside edge of the chain cage **E** and the chain **F** just do not touch.
- Remove the slack from the cable wire and tighten Nut **D** securely.



Handlebar and Stem Installation - Threadless Stem (as equipped):

CAUTION:

- Threadless Stem **B** should be installed with bike sitting on the ground and both wheels installed.
- Make sure Fork is fully inserted from the bottom and Front Brake is pointing FORWARDS.
- Disc Brake models: Disc Brake will generally be on the LEFT side of the Fork.

STEP 1:

1. Add Spacers **A** as needed for proper Gap **E**.
2. Insert the Stem **B** fully onto the Fork Tube **C**.
3. Point the Stem towards the front of the bike and in line with the fork and wheel.
4. With downward pressure on Stem, move bicycle fork/wheel back and forth so there is no looseness in Headset Bearings **D**.

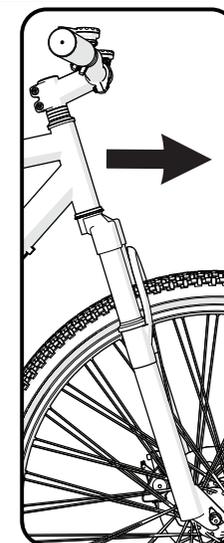
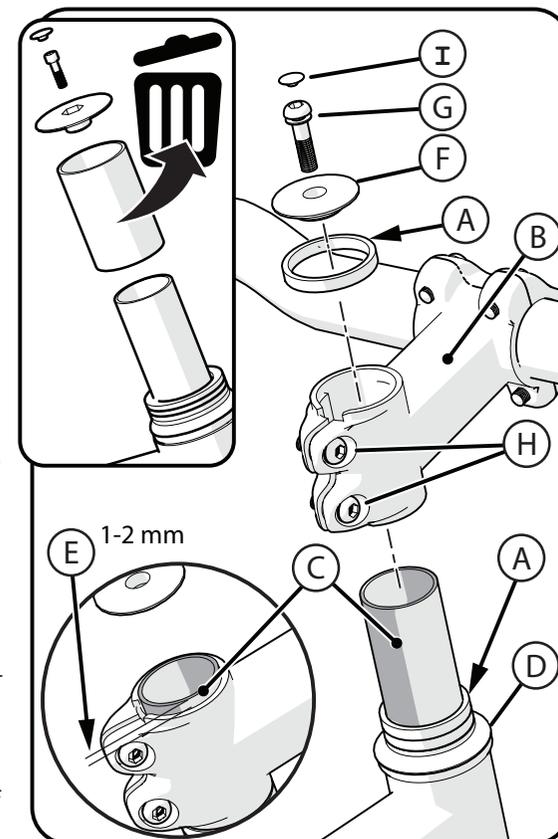
NOTE: Ensure the Steerer Tube **C** extends at least 1-2mm above the top of the Stem **E**.

5. Place Cap **F** into stem and tighten screw securely **G**. Try to move Fork back and forth. There should be no movement in Headset Bearings **D**. If needed, redo above steps.
6. If supplied, insert Rubber Cap **I** securely.

STEP 2:

7. Tighten the stem bolts **H** securely.

WARNING: Ensure handlebar and fork turn left to right smoothly and without friction.



Handlebar Installation

2/4 BOLT STEM:

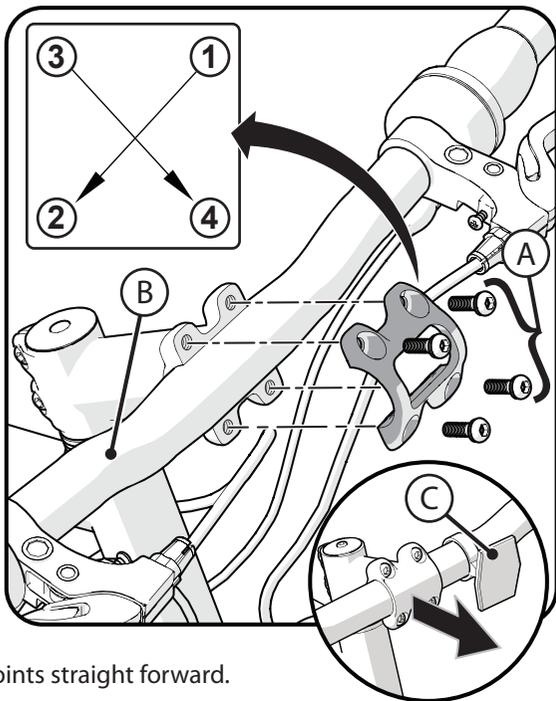
1. If necessary, loosen the Handlebar Clamp Bolt(s) (A) and rotate Handlebar (B) into a comfortable riding position.
2. Tighten Handlebar Clamp Bolt(s) (A) securely.

NOTE: On four bolt stems, tighten Bolts (A) evenly in a cross-pattern as shown. Do not over tighten.

⚠ WARNING: If the handlebar clamp is not tight enough, the handlebar can slip in the stem. This can cause damage to the handlebar or stem, and can cause loss of control.

NOTE: (various models)

1. Position FRONT Reflector (C) so it points straight forward.
2. Tighten Clamp Screw.



Rear Derailleur Adjustments - continued

Put the "low" adjusting Screw in the correct position as follows:

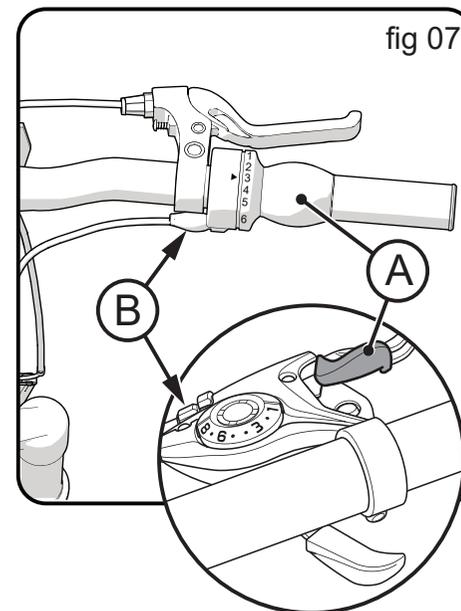
- Shift the chain onto the largest rear Sprocket (F).
- Loosen Nut of the cable clamp.
- Turn the "low" adjusting Screw (L) so the Jockey Roller is exactly below the largest rear sprocket. (fig 06)
- Tighten the Nut of the cable clamp.

Adjust the Index Shift System:

- Shift the chain onto the smallest rear sprocket.
- Without turning the crank, turn the Right Shift Control (A) one "click" rearward - or "click" thumb lever (fig 07).
- Slowly turn the crank forward.
- The chain should move from the smallest rear sprocket to the next larger rear sprocket.
- Turn the Adjusting Barrel (B) OUT as needed so the chain moves exactly on to the second rear sprocket and does not rub, jump, or delay.

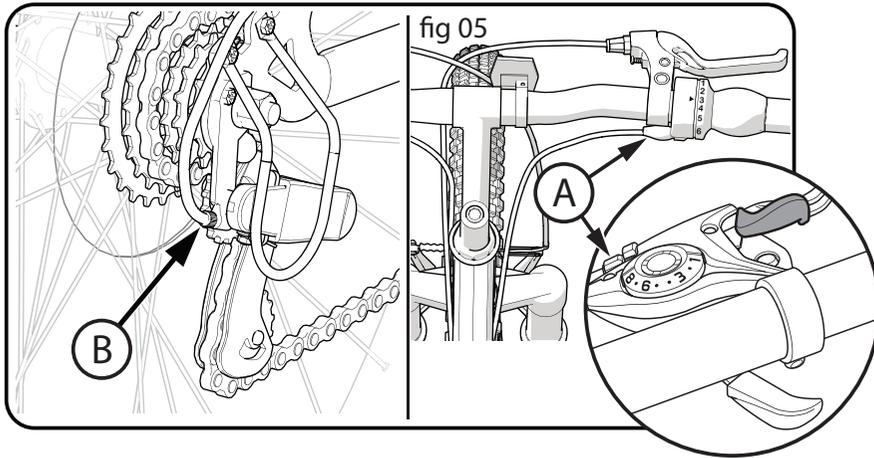
When adjusted properly, the shift system will operate smoothly with no chain rubbing.

NOTE: If you have trouble, take the bike to a bike shop.



Rear Derailleur Adjustments

The rear derailleur has two adjusting screws. The “low” adjusting screw, sometimes marked **L**, limits how far the rear derailleur and chain can move toward the wheel. The “high” adjusting screw, sometimes marked **H**, limits how far the rear derailleur and chain can move away from the wheel.



Put the “high” adjusting screw in the correct position as follows:

- Shift the chain onto the smallest rear sprocket. Loosen Nut **C** of the cable clamp.
- Turn the lever Barrel Adjuster **A** and rear Derailleur Adjustor **B** all the way IN (**fig 05**).
- Turn the “high” adjusting Screw **H** so the Jockey Roller **D** is in line with the outside edge of the smallest rear Sprocket **E** (**fig 06**)
- Remove the slack from the cable wire and tighten the Nut of the cable clamp.

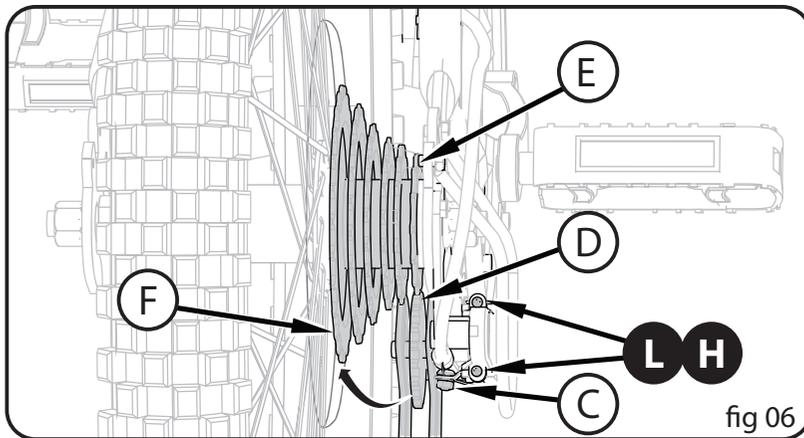


fig 06

continued >>

Installing the Front Wheel with Quick Release Axle

⚠ WARNING:

- Check QR axle and secure before every ride.
- If you hear any unusual noise from the wheels when riding - check the QR axle system.
- Do not ride with improperly adjusted or worn QR axle, this can result in serious injury.
- If you have any problems with the QR axle system, contact the bicycle manufacturer or a local bicycle shop.
- This product is not intended for use in stunt riding, ramp jumping, acrobatics, or similar activities.
- Understand all operating procedures before riding.
- Replace worn or broken parts immediately.

Loosen the Front Brakes

(VIEW 1):

1. Squeeze the two Brake arms together **A**.
2. Lift out the Brake Cable Guide **B** from the Guide Bracket **C**.

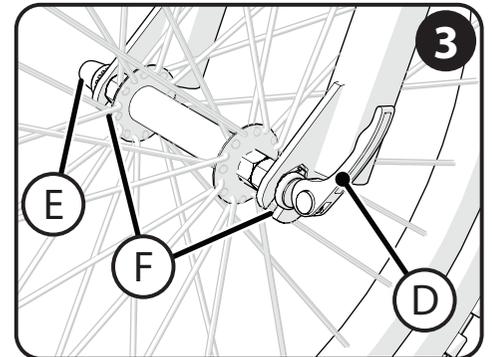
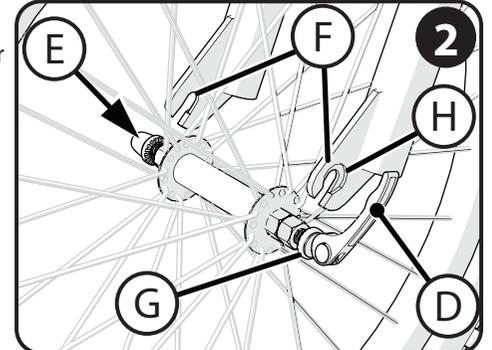
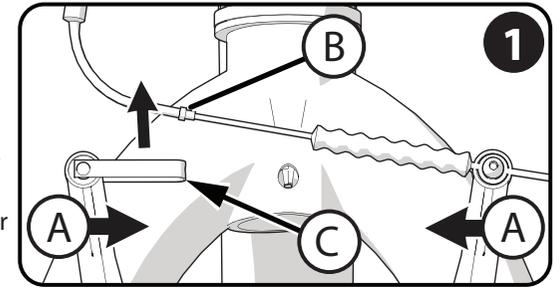
Install the Front Wheel with QR Axle

(VIEW 2):

3. Move the QR Lever **D** to the OPEN position and loosen QR Nut **E** enough so the wheel axle fits into the Fork Dropouts **F** with Brakes pointing forward or Brake Disc on correct side.
4. Ensure the serrated Washers **G** sit inside Fork Recess **H** on both sides.

(VIEW 3):

5. Pushing down on fork to ensure wheel axle is fully seated in Fork Dropouts and tighten QR Nut **E** (turn clock-wise) hand tight.
6. Position QR Lever pointing UP or BACK and partially close.
7. Adjust QR Nut and push QR Lever **D** closed with palm of hand.

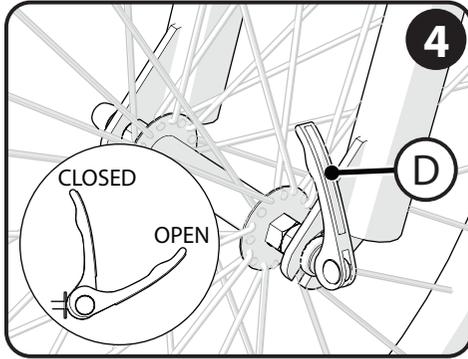


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Installing the Front Wheel with Quick Release Axle - continued

(VIEW 4):

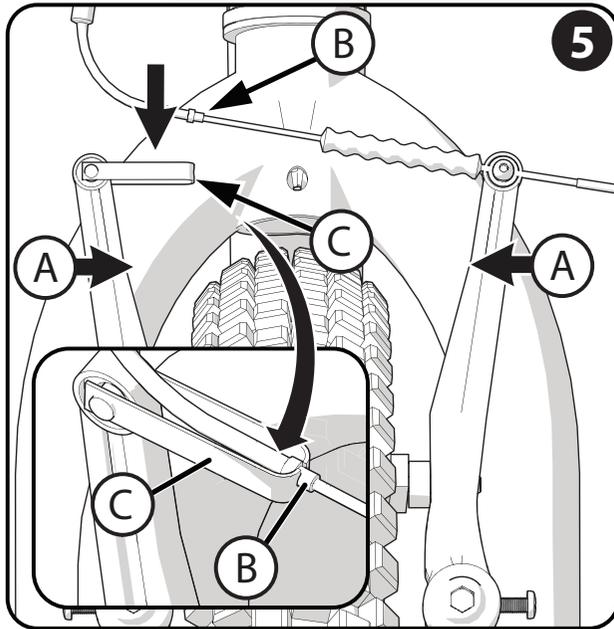
- Ensure QR Lever is tight and fully closed (D).
- Ensure wheel is centered in fork and held securely.
- **Wheel shown with QR Lever (D) in Closed position.**



RE-ATTACH FRONT BRAKE CABLE:

(VIEW 5):

1. Squeeze the two Brake arms together (A).
2. Insert the Brake Cable Guide (B) into the cutout in the Guide Bracket (C).
3. Make sure the Brake Cable Guide (B) is seated securely in the Guide Bracket (C) cutout.



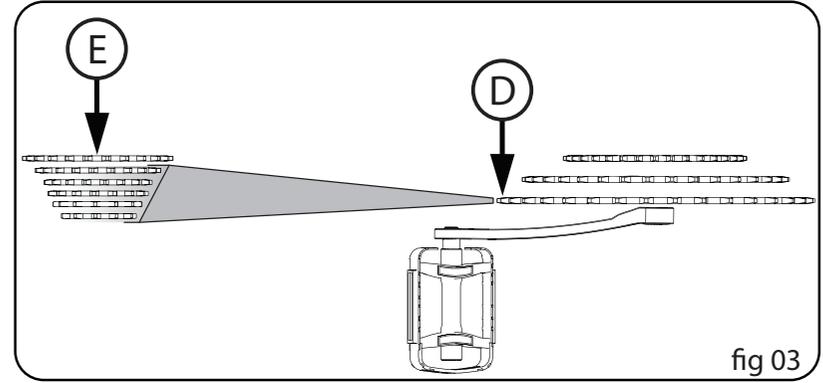
⚠ WARNING:
Check Front Brake Adjustment Before Riding! See Brakes Section

- ⚠ WARNING:**
- Ensure the Quick-Release (QR) is properly tightened before each ride.
 - **DO NOT RIDE WITH THE QR IN THE OPEN POSITION.**

If you have any difficulties adjusting or maintaining the QR Axle system, refer to a local bicycle repair shop. The bicycle technicians are trained to work on QR Axle systems and components.

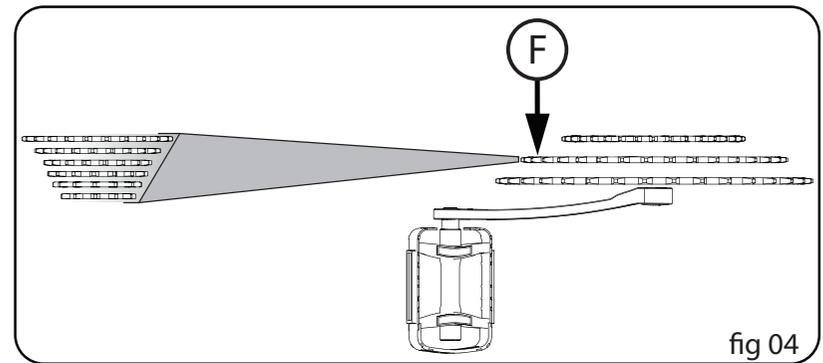
Shift System - continued

THESE ARE THE HIGHER GEAR COMBINATIONS:



- They allow you to pedal harder and at a slower rhythm, but with more distance traveled per pedal revolution.
- For the best performance in this case, do not use the largest rear sprocket (E).

THESE ARE THE MIDDLE RANGE GEAR COMBINATIONS:



- These overlap some of the higher and some of the lower gear combinations.
- On bicycles with three front sprockets, you may wish to keep the chain on the middle front sprocket (F) and shift the chain on the rear sprocket cluster.

Shift System - continued

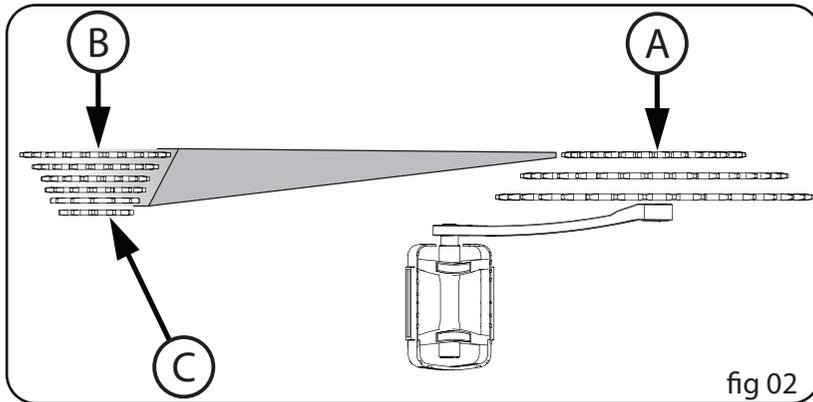
CAUTION: Do not force the shift levers. Shift only when pedaling forward and without strong force. Do not backpedal. Backpedaling can cause the chain to come off the sprockets. Backpedaling and shifting while not pedaling can damage the sprockets and stretch the cable wire.

There is no “correct gear” in which to ride the bicycle. The “correct gear” is the one that is comfortable to you.

To select a gear or sprocket combination while riding:

1. While pedaling, shift the chain onto different front and rear sprocket combinations.
2. You will feel a difference in the rhythm and ease of pedaling.
3. Shift the chain to the gear that allows you to pedal at a rhythm and effort that is comfortable to you.
4. When riding uphill or against the wind, you may wish to keep the chain on the smallest front sprocket **(A)** and shift the chain on the rear sprocket cluster **(B)**.

THESE ARE THE LOWER GEAR COMBINATIONS:

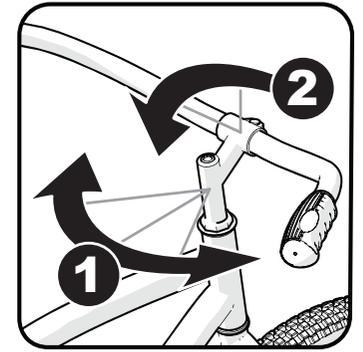


- They allow you to pedal easier and at a faster rhythm, but with less distance traveled per pedal revolution.
- For the best performance in this case, do not use the smallest rear sprocket **(C)**.
- When riding downhill or with the wind, you may wish to keep the chain on the largest front sprocket **(D)** and shift the chain on the rear sprocket cluster.

Testing Stem and Handlebar Tightness

TO TEST THE TIGHTNESS OF THE STEM:

- Straddle the front wheel between your legs.
- Try to turn the front wheel by turning the handlebar **1**.
- If the handlebar and stem turn without turning the front wheel, realign the stem with the wheel and tighten the stem bolt(s) tighter than before (about 1/2 revolution only at a time) until the handlebar and stem do not turn without turning the front wheel.



TO TEST THE TIGHTNESS OF THE HANDLEBAR CLAMP:

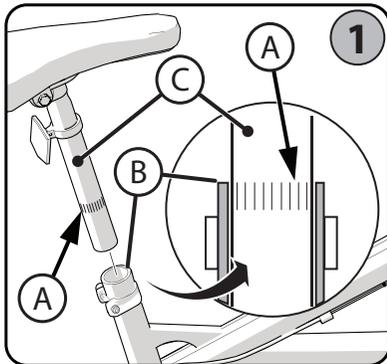
- Hold the bicycle stationary and try to move the ends of the handlebar up and down **2**.
- CAUTION:** Do not exceed 100 lbs (45 kg) downward force.
- If the handlebar moves, loosen the bolt(s) of the handlebar clamp.
 - Put the handlebar in the correct position and tighten the bolt(s) of the handlebar clamp tighter than before.
 - If the handlebar clamp has more than one bolt, tighten the bolts equally.
 - Do this test again, until the handlebar does not move in the handlebar clamp.

Seat Installation

WARNING: To prevent the Seat coming loose and possible loss of control, the "MIN-IN" (minimum insertion) mark (A) on the Seat Post must be **BELOW** the top of the Seat Tube (B).

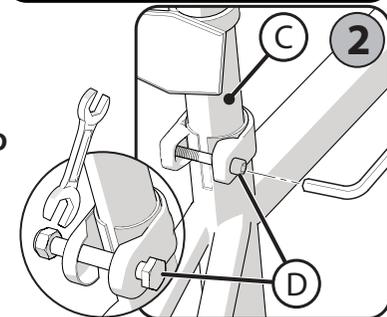
STEP 1 - INSERT SEAT POST INTO SEAT TUBE:

- If needed, loosen Seat Post Clamp Screw (D) or open the Quick Release Lever (E).
- Point the Seat forward and put the Seat Post (C) into the Seat Tube (B) with the "MIN-IN" marks BELOW the top of the Seat Tube as shown.



STEP 2 - BOLT SEAT CLAMP: (various models)

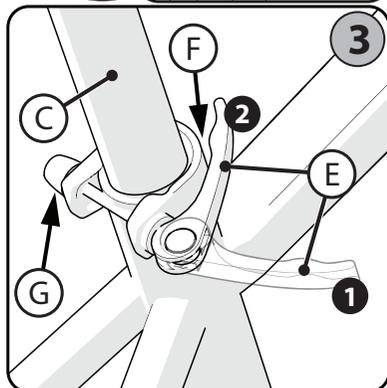
- With Seat Post (C) inserted according to STEP 1 - Tighten Screw (D) securely so Seat supports the rider without moving.



STEP 3 - QUICK RELEASE LEVER: (various models)

CAUTION: Operate the Quick Release Lever by **HAND ONLY - DO NOT USE TOOLS.**

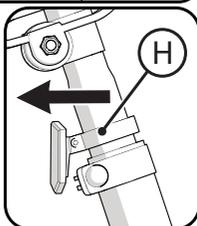
1. As needed, open and close the Quick Release Lever (E) with one hand and tighten or loosen the Adjusting Nut (G) by hand, so that you first feel resistance to the Quick Release Lever when it is in the "OPEN" position 1.
2. Push the Quick Release Lever to the "CLOSE" position 2 - It will take **strong force** to clamp securely so that the Quick Release Lever lays against the Seat Post Clamp (F).



WARNING: You must use strong force to move the Quick Release Lever securely to the "CLOSE" position 2. This ensures that the seat does not move during normal operation.

REFLECTOR: (as equipped)

Position Seat Post Reflector (if equipped) (H) so it points straight backwards. Tighten Clamp Screw.

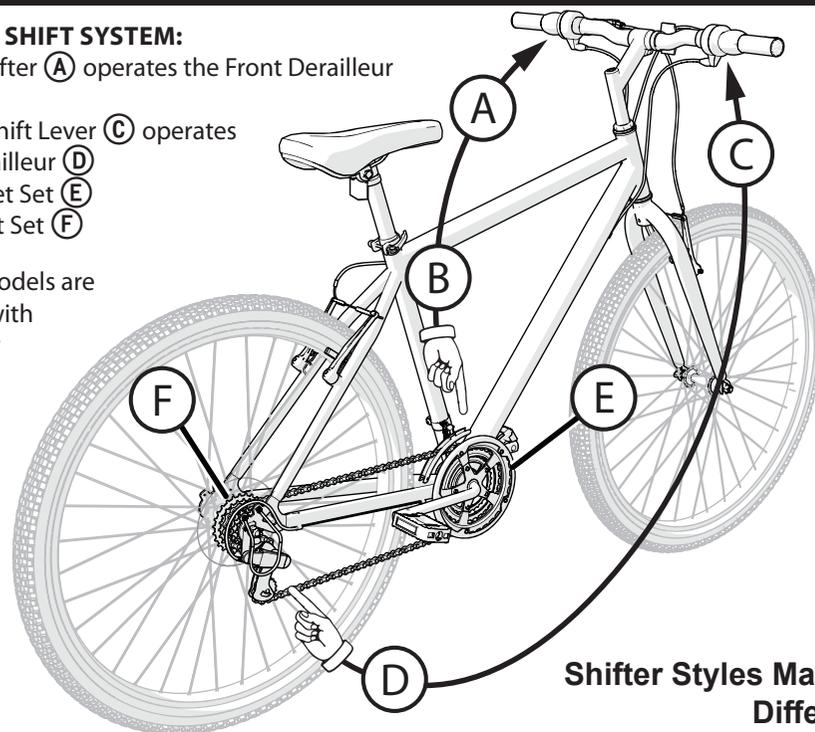


Shift System

PARTS OF THE SHIFT SYSTEM:

- Left-hand Shifter (A) operates the Front Derailleur (B)
- Right-hand Shift Lever (C) operates the Rear Derailleur (D)
- Front Sprocket Set (E)
- Rear Sprocket Set (F)

NOTE: Some models are not equipped with Front Derailleur (B) and Front Shift Lever (A)



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 loss of control and injury.
- Never move the shifter while pedaling backward, nor pedal backwards immediately after having moved the shifter. This could jam the chain and cause damage to the bicycle and/or loss of control and injury.

OPERATE THE SHIFT SYSTEM AS FOLLOWS:

1. The rider turns the Rear Shift Control (C) around the handlebar (for twist shift models) or moves the shift lever (thumb shift models) to an index position
2. When the rear shift control moves into each position with a "click" sound, the shift is complete
3. The rider turns the Front Shift Control (A) around the handlebar (for twist shift models) or moves the shift lever to an index position (thumb shift models)
4. Each shift control pulls a cable wire that is attached to the derailleur.
5. The derailleur moves and guides the chain from one sprocket to another.
6. If there is some chain noise after the shift, turn the rear shift control a small amount to "trim" the rear derailleur.

Linear Pull Brake System - continued

Test the tightness of the cable clamp (fig C):

1. Squeeze each Brake Levers **(G)** with firm pressure.
2. Make sure the cable does not move in the Cable Clamp **(E)**.
3. If the cable moves in the cable clamp, adjust the brakes again but tighten the cable clamp tighter than before.
4. Do this test again, until the cable does not move in the cable clamp.

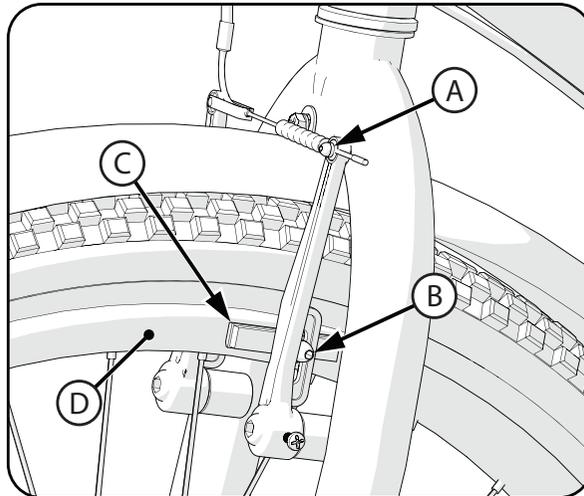
Test the travel of each brake lever:

1. Squeeze each Brake Lever **(G)** with strong pressure
2. If the brake lever touches the grip, adjust the brakes again.

⚠ WARNING: After you adjust the brakes again, if either brake lever touches the grip or does not work well, have a bicycle service shop repair or adjust the brakes.

Linear Pull Brake Pad Replacement

1. If necessary, loosen brake cable Adjustment Bolt **(A)**.
2. Loosen and remove brake pad Bolt/Screws **(B)**.
3. Remove old Brake Shoe **(C)**.
4. Install new Brake Shoe, making sure it is pointing forward and lined up evenly with the Wheel Rim **(D)**.
5. Tighten brake pad Bolt/Screw and Adjustment Bolt according to Torque Chart.



⚠ WARNING: Replace Brake Pad with same model and type as original.

Seat Bolt Saddle Adjustment (various models)

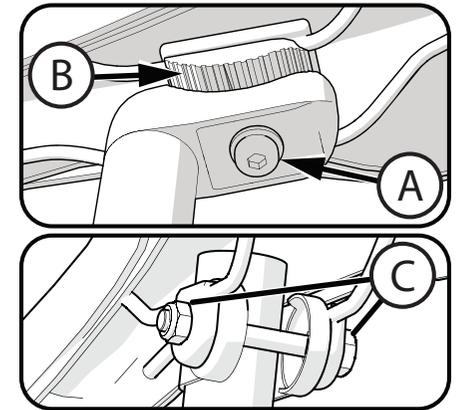
SINGLE BOLT CLAMP:

1. Loosen the Clamp Bolt **(A)** sufficiently to allow any Serrations **(B)** on the mechanism to disengage before changing the saddle's angle.
2. With serrations fully re-engaged and saddle in a comfortable riding position, tighten the Clamp Bolt **(A)** securely to ensure the saddle will not come loose.

⚠ WARNING: Serrations on the mating surfaces of the Clamp can wear with use and adjustment. Check that the Clamp is tight and secure before each ride.

DUAL CLAMP:

3. Loosen Clamp Bolt/Nut **(C)** as needed and adjust Seat to a comfortable riding position.
4. With Clamp fully on Seat Post as shown, tighten Bolt/Nut **(C)** securely so that seat does not move when in use.



Testing Seat Clamp and Post Clamp Tightness

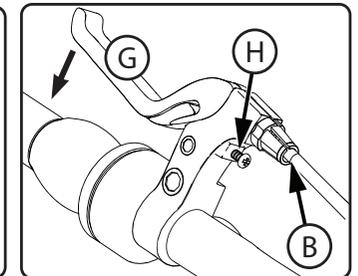
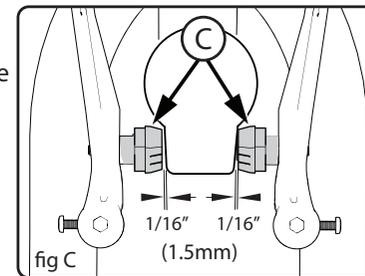
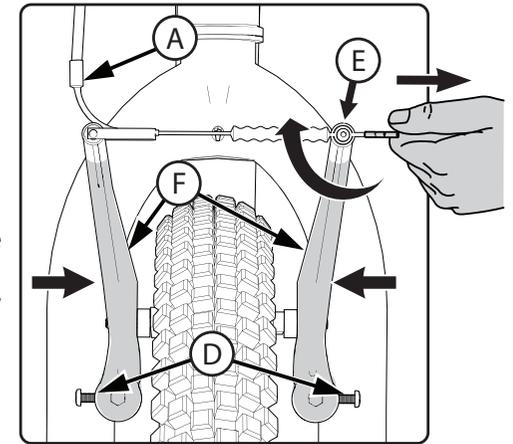
To test the tightness of the seat clamp and the post clamp:

- Try to turn the seat side-to-side and to move the front of the seat up and down.
- **If the seat moves in the Seat Clamp:**
 - Loosen the Seat Clamp Nut.
 - Put the seat in the correct position and tighten the Seat Clamp tighter than before.
 - Do this test again, until the seat does not move in the Seat Clamp.
- **If the Seat Post moves in the Seat Tube Clamp:**
 - Loosen the Seat Clamp Lever.
 - Put the Seat Post in the correct position and tighten the Seat Clamp Nut tighter than before.
- If necessary, tighten or loosen Hand Nut so that Quick Release tightens securely.
 - Do this test again, until the Seat Post does not move in the Seat Tube Clamp.

Linear Pull Brake System Adjustment - continued

PUT THE BRAKE SHOES THE CORRECT DISTANCE FROM THE RIM:

1. If desired, adjust Brake Levers **G** to a comfortable distance from the grip using the Adjustment Screw **H**. Turning the screw IN brings it closer to the grip.
2. Make sure brake line Sheaths **A**, **B** are seated correctly.
3. Position each Brake Shoe 1/16 inch away from the rim:
4. Turn the caliper brake adjusting Screws **D** in or out to make the adjustment.
5. If the Brake Shoes **C** cannot be positioned the correct distance from the rim, hold both Brake Shoes against the rim and loosen the cable clamp Screw **E**.
6. Squeeze the Brake Arms **F** together and pull or loosen the cable wire slightly.
7. Tighten the cable clamp Screw.



WARNING: Do not over tighten the cable clamp. Over tightening the cable clamp may cut the cable and cause injury to the rider or to others.

8. Repeat these steps until the brake shoes are 1/16 inch from the rim and the Brake Lever **G** does not go all the way to the grip when squeezed (**fig C**).

WARNING: Do not move the brake shoes away from a wheel rim that is not true (straight). This can cause the caliper brake to be less effective and unsafe. To allow safe adjustment of the caliper brake, have a bicycle service shop true the wheel.

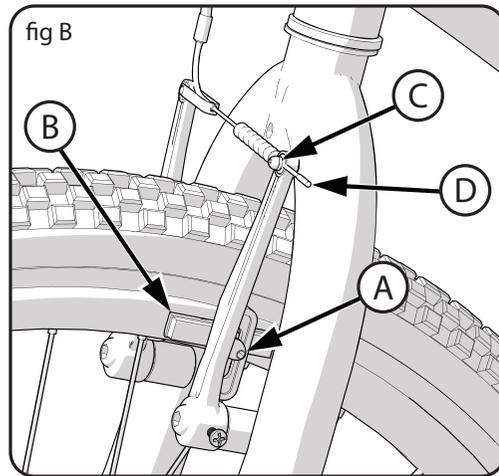
Linear Pull Brake System - Adjustment continued

NOTE: The front and rear brake adjustments are the same.

WARNING: You must adjust the front and rear brakes before you ride the bicycle.

Step 1: Put the brake shoes (B) in the correct position (fig B):

1. Loosen the Screw (A) of each Brake Shoe (B).
2. Adjust each Brake Shoe so it is flat against the rim and aligned with the curve of the rim.
3. Make sure each Brake Shoe does not rub the tire.
4. If the surface of the Brake Shoe has arrows, make sure the arrows point toward the rear of the bicycle.
5. Hold each Brake Shoe in position and tighten the Screw.



Step 2: Test the tightness of each Brake Shoe:

1. Try to move each Brake Shoe out of position.
2. If a Brake Shoe moves, do Step 1 again, but tighten the nut tighter than before.
3. Do this test again, until each Brake Shoe does not move.

Step 3. Stretching the cable (fig B):

1. Hold both Brake Shoes against the rim.
2. Loosen the cable clamp Screw (C).
3. Pull the Cable (D) tight and tighten the Screw.

WARNING: Do not over tighten the cable clamp Screw. Over tightening the cable clamp Screw may cut the cable and cause injury to the rider or to others.

4. Squeeze each brake lever firmly 20 times.
5. Hold both Brake Shoes against the rim and loosen the cable clamp Screw.
6. Pull the Cable tight and tighten the cable clamp Screw.

Pedal Installation

CAUTION: There is a RIGHT pedal marked (R) and a LEFT pedal marked (L).

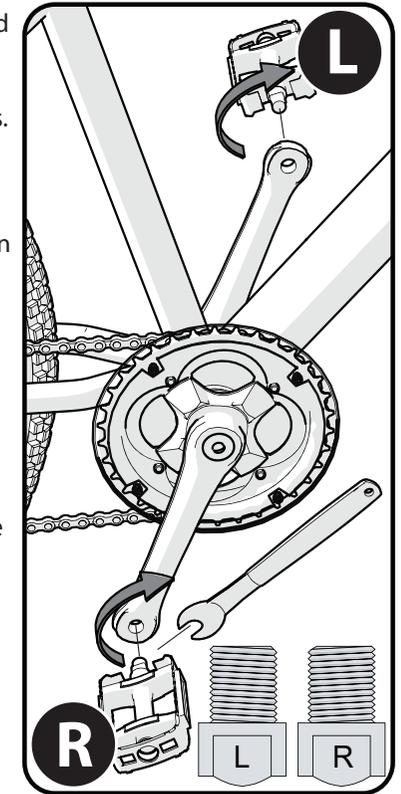
NOTE: A Pedal Wrench is preferred for attaching Pedals. A thin open-end wrench can also be used.

- The pedal marked (R) has right-hand threads. Tighten it in a **clockwise direction**.
- The pedal marked (L) has left-hand threads. Tighten it in a **counterclockwise direction (anti-clockwise)**.
- Turn the right pedal marked (R) into the right side of the crank arm, and the left pedal marked (L) into the left side of the crank arm.

Tighten the pedals:

- Make sure the threads of each pedal are fully into the crank arm.

WARNING: Ensure pedals are secure in crank arms so they will not loosen. Periodically check tightness.

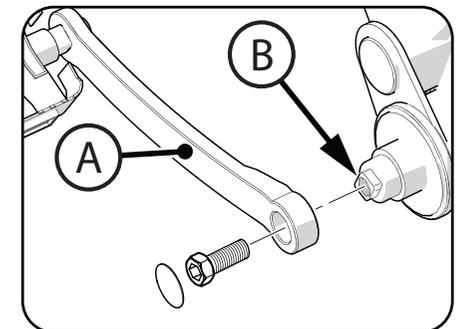


Three-Piece Cranks (various models)

Maintenance: Both Crank Arms (A) were tightened to the spindle (B) at the factory. After riding the bicycle the first few times, make sure the crank arms have not loosened. If either crank arm has loosened during this "break-in" period, re-tighten or have it tightened by a bicycle service shop.

Frequently check the tightness of the crank arms. If loose, tighten or have them tightened by a bicycle service shop.

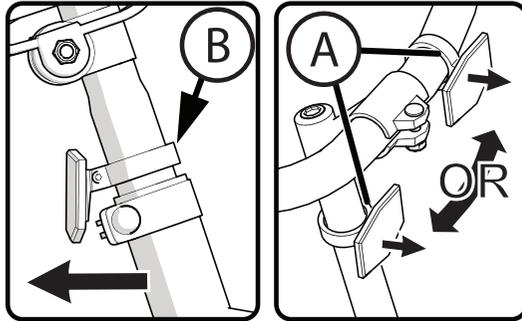
WARNING: If you ride the bicycle with a loose crank arm, the crank arm may fall off. The spindle may also damage the crank arm.



Reflector Installation (as equipped)

Reflector Installation:

1. Position FRONT Reflector (A) so it points straight forward.
2. Tighten Clamp Screw.
3. Position Seat Post Reflector (if equipped) (B) so it points straight backwards.
4. Tighten Clamp Screw.

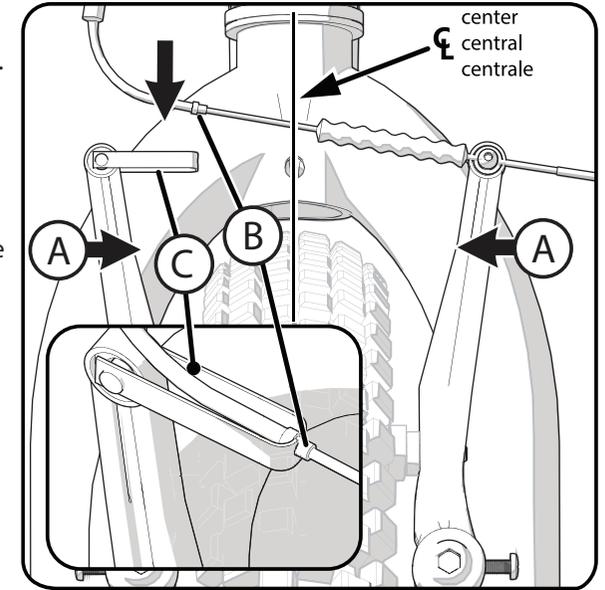


NOTE: Do not over-tighten. This will damage the Clamp.

Linear Pull Brake System Adjustment - Before Starting

IF EQUIPPED: The Following Sections Describe Final Brake System Adjustments Required Before Riding.

- Inflate Tires to recommended pressure on Tire side wall.
- Make sure Tire is centered in Fork.
- **If Needed, Re-attach Front Brake Cable:**
 - Squeeze the two Brake arms together (A).
 - Insert the Brake Cable Guide (B) into the cutout in the Guide Bracket (C).
 - Make sure the Brake Cable Guide (B) is seated securely in the Guide Bracket (C) cutout.



Check tightness of the cantilever mounting Bolt (A) (fig A):

- Make sure each cantilever mounting Bolt is tightened securely.

Center brake shoes on rim:

1. Turn the Adjustment Screw (B) on the cantilever arm to move the arm in or out so each Brake Shoe (C) is the same distance from the rim.
2. Squeeze the brake lever two times.
3. Do this step again, until both brake shoes are the same distance from the rim.

