

SCHWINN®

Owner's Manual Kids Bike

This manual contains important safety, performance and maintenance information. Read the manual before taking your first ride on your new bicycle, and keep the manual handy for future reference.

To register your bike visit
schwinnbikes.com/register



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Congratulations

on your new bicycle! Proper assembly and operation of your bicycle is important for your safety and enjoyment. Our customer service department is dedicated to your satisfaction with Pacific Cycle and its products. If you have questions or need advice regarding assembly, parts, performance, or returns, please contact the experts at Pacific Cycle. **Enjoy the ride!**

Toll free: 1-800-626-2811.

Customer Service hours: Monday - Friday 8 AM- 5 PM Central Standard Time (CST)

You may also reach us at:

Web: www.pacific-cycle.com

Email: customerservice@pacific-cycle.com

Mail: P. O. Box 344

4730 E. Radio Tower Lane
Olney, IL 62450

Do not return this item to the store. Please call Pacific Cycle customer service if you need assistance. You will need your model number and date code located on the service sticker near the bottom bracket area. See **Section 7: Purchase Record** for the location of the model number on your bicycle.

About This Manual

It is important for you to understand your new bicycle. By reading this manual before you go out on your first ride, you'll know how to get better performance, comfort, and enjoyment from your new bicycle. It is also important that your first ride on your new bicycle is taken in a controlled environment, away from cars, obstacles and other cyclists.

This manual contains important information regarding safety, assembly, use, and maintenance of the bicycle but is **not** intended to be a complete or comprehensive manual covering all aspects concerning bicycle ownership. We recommend consulting a bicycle specialist if you have any doubts or concerns regarding your experience or ability to properly assemble and maintain the bicycle.

A Special Note For Parents and Guardians

It is a tragic fact that most bicycle accidents involve children. As a parent or guardian, you bear the responsibility for the activities and safety of your minor child. Among these responsibilities are to make sure that the bicycle which your child is riding is properly fitted to the child; that it is in good repair and safe operating condition; that you and your child have learned, understand and obey not only the applicable local motor vehicle, bicycle, and traffic laws, but also the common sense rules of safe and responsible bicycling. As a parent, you should read this manual before letting your child ride the bicycle. Please make sure that your child always wears an approved bicycle helmet when riding.

Helmets Save Lives!

- ALWAYS WEAR A PROPERLY FITTED HELMET WHEN RIDING YOUR BICYCLE
- DO NOT RIDE AT NIGHT
- AVOID RIDING IN WET CONDITIONS



Correct Fitting

Make sure your helmet covers your forehead



Incorrect Fitting

Forehead is exposed and vulnerable to serious injury

1 Safety

SAFETY SIGNAL WORDS

The following safety signal words indicate a safety message. The symbol alerts you to potential hazards. Failure to follow the warning may result in damage to property, injury, or death.

This manual contains many Warnings and Cautions concerning the consequences of failure to follow safety warnings. Because any fall can result in serious injury or even death, we do not repeat the warning of possible injury or death whenever the risk of falling is mentioned.

WARNING!

Indicates a hazard or unsafe practice that will result in severe injury or death. Failure to read, understand and follow the safety information in this manual may result in serious injury or death.

CAUTION!

Indicates a hazard or unsafe practice that could result in minor injury.

NOTICE

Indicates a hazard unrelated to personal injury, such as property damage.

USER RESPONSIBILITY

WARNING!

Do not install any kind of power plant or internal combustion engine to a bicycle. Adapting a bicycle in this manner poses an extreme safety risk to rider and could result in loss of control or death.

All persons assembling, using, and maintaining the bicycle must read and understand the safety warnings and operating instructions in this manual before using the bicycle.

It is the responsibility of the user, or in the case of a child rider, an adult, to ensure the bicycle is properly maintained and in proper operating condition. Doing so will reduce the risk of injury. Always conduct regular maintenance and inspection of your bicycle. Complete the Safety Checklist at the end of this section before each use.

A responsible adult must always supervise the use of the bicycle by a child. You must ensure:

- The child is wearing the proper protective attire and approved bicycle helmet.
- The child is seated securely and the bicycle is properly fitted to the child.
- The child understands applicable laws and common sense rules of safe responsible bicycling.

BICYCLE SETUP

⚠ WARNING!

Inability to safely reach the handlebars and dismount the bicycle may result in loss of control of the bicycle. If the bicycle has a top tube on the frame, ensure there is one to three inches of clearance between the rider and the top tube.

Improper setup or maintenance of the bicycle may result in an unexpected movement, loss of control, and serious injury or death.

Correct Bicycle Size

Riding a bicycle that is not correctly sized to the rider may result in the rider's feet not being able to touch the ground and balance the bicycle, properly reach the handlebar for steering or braking, and loss of control when pedaling.

Use the wheel size in the following table as a guide to match the rider and bicycle. For example, bicycles with a wheel size of 12 inches fit a rider that is 28 to 38 inches tall. **Note:** Some bicycles such as folding bicycles may have smaller wheels but still fit adults.

If the bicycle has a top tube on the frame, check that there is one to three inches of clearance between the rider and the top tube. **Figure 1.1**

Wheel Size	Riders Approximate Height
12 inch	28 - 38 inches tall
14 inch	36 - 40 inches tall
16 inch	38 - 48 inches tall
18 inch	42 - 52 inches tall
20 inch	48 - 60 inches tall
24 inch	56 - 66 inches tall
26 inch, 27.5 inch, 29 inch, 700c	64 - 74 inches tall

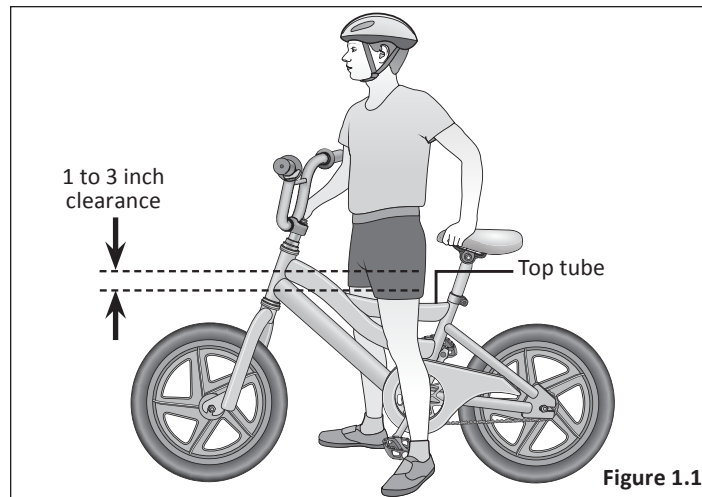


Figure 1.1

Seat Height and Handlebar Reach

⚠ WARNING!

Improperly adjusted seat height could affect the rider's ability to reach the handlebar and pedals may result in an unexpected movement, loss of control, and serious injury or death. Follow these guidelines when adjusting the seat height. Always ensure the seat post **minimum insertion marks** are below the seat clamp and **cannot** be seen. Ensure the seat clamp is locked and the seat cannot move.

- 1 Your legs should be almost completely straight when the pedal is in the down most position, just a slight bend in the knee. **Figure 1.2**

Note: The rider's feet may not touch the ground easily. If this is the case the rider can simply move forward off the seat to mount and dismount the bicycle or the seat can be adjusted lower if the rider is uncomfortable with the height, but note that riding is more difficult with the seat too low, as the legs are in an unnatural position.

Do not raise the seat so much the knees lock straight when pedaling or you have to move forward off the seat to pedal. This is unsafe and the bicycle cannot be controlled in this condition.

- 2 You should be able to safely reach the handlebar with your arms bent slightly (approximately 10 degrees) at the elbow.

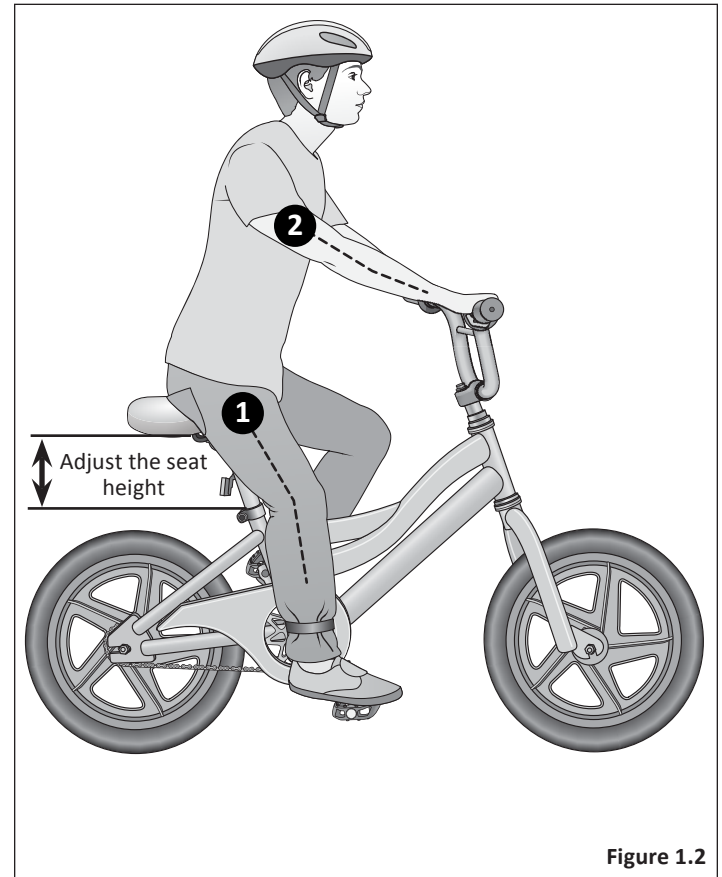


Figure 1.2

Quick-release Lever

⚠ WARNING!

Improper setup or maintenance of the quick-release levers may result in an unexpected movement, loss of control, and serious injury or death. Before riding always check that the quick-release lever is firmly locked in place and the seat does not move.

Seat Post

- 2 Ensure the seat post's ***minimum insertion marks*** are **not** visible above the seat clamp and the clamp is locked in place. **Figure 1.3**

Note: See **Section 4: Adjusting the Seat Height** if adjustments are needed.

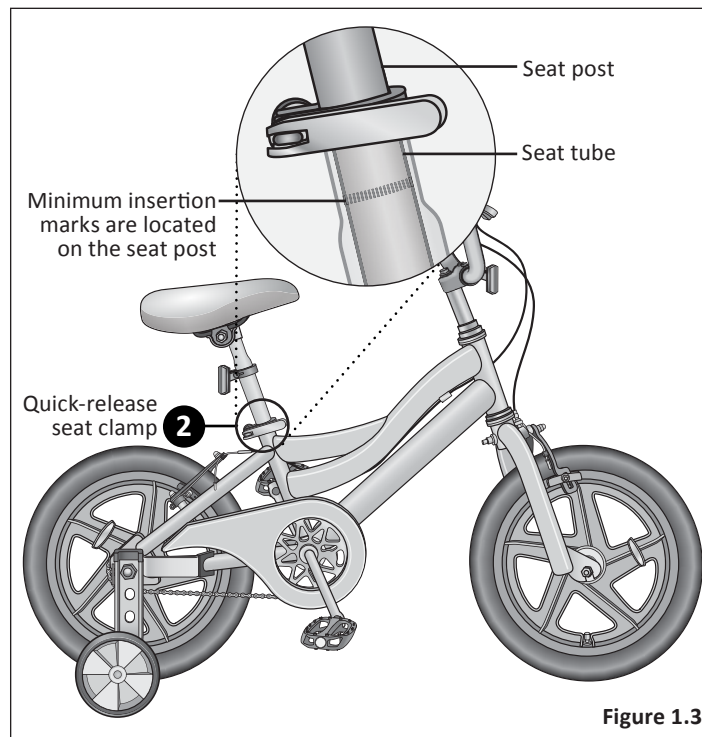


Figure 1.3

PERSONAL SAFETY

WARNING!

Riding a bicycle without protective gear, clothing, or a helmet may result in serious injury or death. Always wear protective gear, clothing, and helmet when riding the bicycle. Ensure protective gear does not interfere with steering, braking, and pedaling.

Protective Gear and Clothing

Always wear: Figure 1.4

- Colors that are easily seen and, if possible, reflective clothing.
- Clothing appropriate for the weather conditions.
- Use of protective gear such as pads for the knees and elbows is highly recommended for children.
- A properly fitted, ASTM or SNELL approved, bicycle helmet shall be worn at all times by riders of the bicycle. For information regarding how to properly fit a helmet visit: <http://www.nhtsa.gov/people/injury/pedbimot/bike/easystepsweb>

Do not wear:

- Loose clothing parts, strings, or jewelry that may become entangled with moving parts on the bicycle or interfere with handling of the bicycle.

- Pants with loose pant legs. If necessary, always tuck pant legs into a sock or use a leg band to avoid the clothing becoming caught in the drive chain.
- Shoes with untied shoe laces.

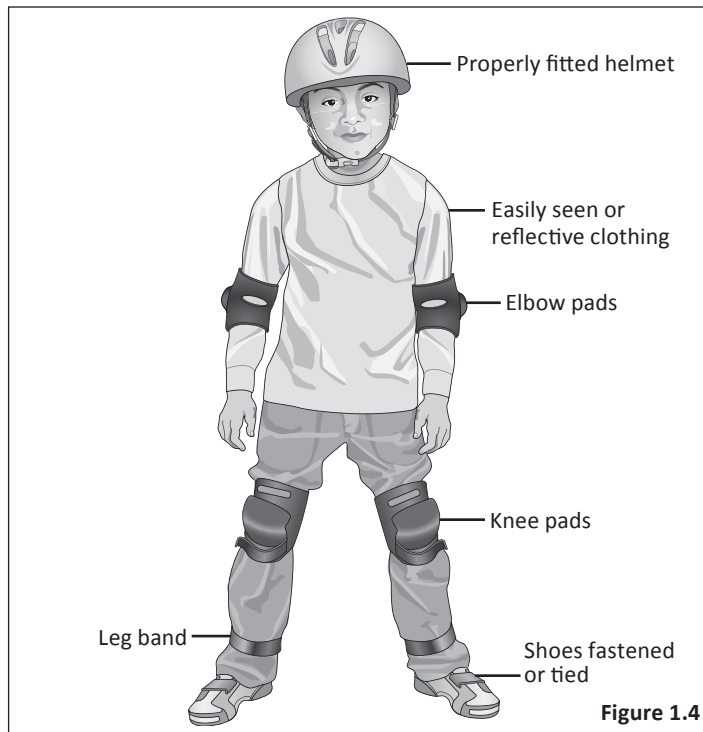


Figure 1.4

Helmet Use

Important! Many states have passed helmet laws regarding children. Make sure you know your state's helmet laws. It is your job to enforce these rules with your children. Even if your state does not have a children's helmet law, it is recommended that everyone wear a helmet when cycling. When riding with a child carrier seat or trailer, children must wear a helmet.

It is strongly advised that a properly fitting, ASTM or SNELL approved, bicycle safety helmet be worn at all times when riding your bicycle. In addition, if you are carrying a passenger in a child safety seat, they must also be wearing a helmet.

The correct helmet should: Figure 1.5

- Be comfortable
- Have good ventilation
- Fit correctly
- Cover forehead

Incorrect helmet position: Figure 1.6

- Helmet **does not** cover the forehead

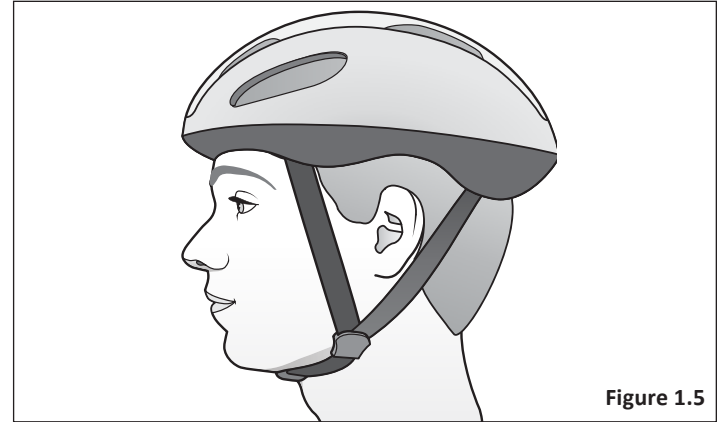


Figure 1.5

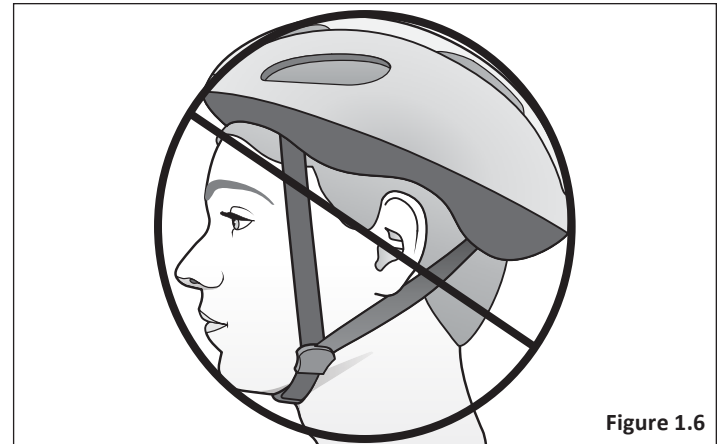


Figure 1.6

1 Safety

Reflectors

WARNING!

Missing, damaged, or dirty reflectors will affect the ability of others to see and recognize you as a moving bicyclist, increasing the risk of being hit, serious injury or death. Always check the reflectors are in place and make sure they are clean, straight, unbroken and securely mounted before riding the bicycle.

Important! Federal regulations require every bicycle over 16 inches to be equipped with front, rear, wheel, and pedal reflectors. Many states require specific safety devices. It is your responsibility to familiarize yourself with the laws of the state where you ride and to comply with all applicable laws, including properly equipping yourself and your bike as the law requires. Bicycles under 16 inches are considered “sidewalk bicycles” and may not be fitted with reflectors. These bicycles should **not** be ridden on streets, at night or unsupervised by an adult.

Check and confirm the front and rear reflectors are in the correct position: **Figure 1.7**

- **Front Reflector:** Should aim forward (when viewed from above) and be mounted so it is within 5 degrees of vertical.
- **Rear Reflector:** Should aim straight back (when viewed from above) and be mounted so it is within 5 degrees of vertical.

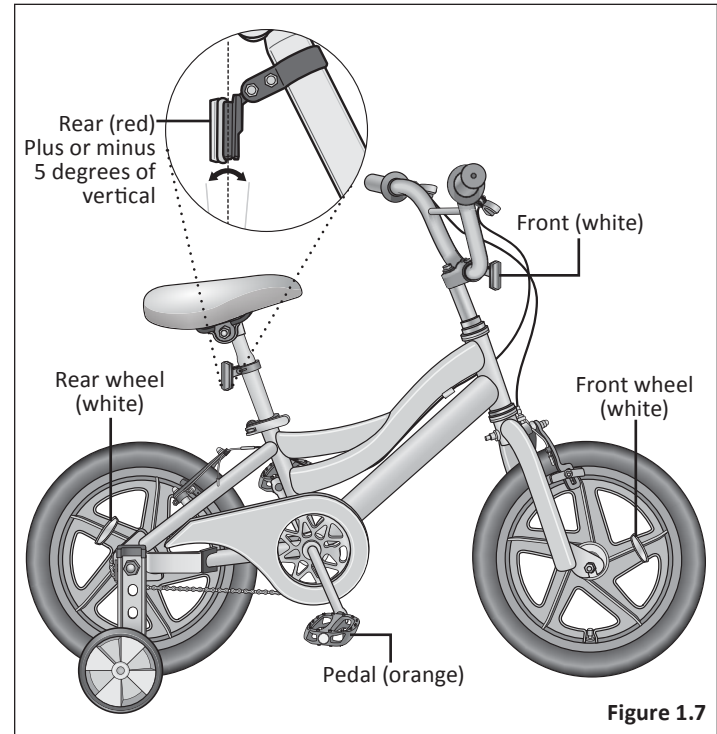


Figure 1.7

RIDING SAFETY

WARNING!

Riding the bicycle in unsafe conditions (i.e. at night), in an unsafe manner, or disregarding traffic laws may result in an unexpected movement, loss of control, and serious injury or death.

General Safety

- Familiarize yourself with all the bicycle's features before riding. Practice gear shifts, braking, and the use of toe clips and straps, if installed.
- Always ride defensively in a predictable, straight line. Never ride against traffic.
- Expect the unexpected (e.g. opening car doors or cars backing out of concealed driveways).
- Take extra care at intersections and when preparing to pass other vehicles.
- Maintain a comfortable stopping distance from all other riders, vehicles and objects. Safe braking distances and forces are subject to the prevailing weather conditions. Do not lock up the brakes. When braking, always apply the rear brake first, then the front. The front brake is more powerful and if it is not correctly applied, you may lose control and fall.
- Always use the correct hand signals to indicate turning or stopping.
- Obey the traffic laws (e.g., stopping at a red light or stop sign, giving way to pedestrians).

- Wear proper riding attire, reflective if possible, and avoid open toe shoes.
- Do not use items that may restrict your hearing and vision.
- Do not carry packages or passengers that will interfere with your visibility or control of the bicycle.

Road Conditions

- Be aware of road conditions. Concentrate on the path ahead. Avoid pot holes, gravel, wet road markings, oil, curbs, speed bumps, drain grates and other obstacles.
- Cross train tracks at a 90 degree angle or walk your bicycle across.

Wet Weather

- When riding in wet weather always wear reflective clothing and use safety lights to enhance visibility.
- Exercise extreme caution when riding in wet conditions.
- Ride at a slower speed. Turn corners gradually and avoid sudden braking.
- Brake earlier, it will take a longer distance to stop.
- Pot holes and slippery surfaces such as line markings and train tracks all become more hazardous when wet.

1 Safety

Night Riding

- **Important!** Riding a bicycle at night is **not** recommended. Check your local laws regarding night riding.
- Ensure bicycle is equipped with a full set of correctly positioned and clean reflectors.
- Use a white light on the front and a red light on the rear. Use lights with flashing capability for enhanced visibility.
- If using battery powered lights, make sure batteries are well charged.
- Wear reflective and light colored clothing. Wear reflective clothing and use safety lights for increased visibility.
- Ride at night only if necessary. Slow down and use familiar roads with street lighting.

Hill Technique

- Gear down before a climb and continue gearing down as required to maintain pedaling speed.
- If you reach the lowest gear and are struggling, stand up on your pedals. You will then obtain more power from each pedal revolution.
- On the descent, use the high gears to avoid rapid pedaling.
- Do not exceed a comfortable speed; maintain control and take additional care.
- Braking will require additional distance. Initiate braking slowly and earlier than usual.

Cornering Technique

- Brake slightly before cornering and prepare to lean your body into the corner.
- Maintain the inside pedal at the 12 o'clock position and slightly point the inside knee in the direction you are turning.
- Keep the other leg straight, do not pedal through fast or tight corners.
- Decrease your riding speed, avoid sudden braking and sharp turns.

Safe Riding Rules for Children

- Many states require that children wear a helmet while cycling. Always wear a properly fitted helmet.
- Do not play in driveways or the road.
- Do not ride on busy streets.
- Do not ride at night.
- Obey all the traffic laws, especially stop signs and red lights.
- Be aware of other road vehicles behind and nearby.
- Before entering a street: Stop, look left, right, and left again for traffic. If there's no traffic, proceed into the roadway.
- If riding downhill, be extra careful. Slow down using the brakes and maintain control of the steering.
- Never take your hands off the handlebars, or your feet off the pedals when riding downhill.

BEFORE YOU RIDE SAFETY CHECKLIST

Before every ride, it is important to carry out the following safety checks. Do not ride a bicycle that is not in proper working condition!

Accessories

- ☐ The reflectors are properly placed and not obscured. **Note:** Bicycles 16" and under may not be equipped with reflectors since small children should not ride at night.
- ☐ All other fittings on the bike are properly and securely fastened, and functioning.
- ☐ The rider is wearing a properly fitted helmet (protective gear if necessary) and that clothing and loose items are properly constrained.

Bearings

- ☐ All bearings are lubricated, run freely and display no excess movement, grinding or rattling.

Brakes

- ☐ The front and rear brakes work properly.
- ☐ The brake shoe pads are not overly worn and are correctly positioned in relation to the rims.
- ☐ The brake control cables are lubricated, correctly adjusted and display no obvious wear.
- ☐ The brake control levers are lubricated and tightly secured to the handlebar.

Chains

- ☐ The chain is oiled, clean and runs smoothly.

Cranks and Pedals

- ☐ The pedals are securely tightened to the crank arms.
- ☐ The crank arms are secured to the axle and are not bent.

Frame and Fork

- ☐ The frame and fork are not bent or broken.
- ☐ The quick-release clamps are locked in place.

Steering

- ☐ The handlebar and post are correctly adjusted and tightened, and allow proper steering.
- ☐ The handlebars are set correctly in relation to the forks and the direction of travel.
- ☐ The handlebar binder bolt is tightened.

Wheels and Tires

- ☐ The rims do not have dirt or grease on them.
- ☐ The wheels are properly attached to the bicycle and axle.
- ☐ The tires are properly inflated within the recommended pressures displayed on the tires sidewall.
- ☐ The tires have the proper amount of tread, no bulges or excessive wear.

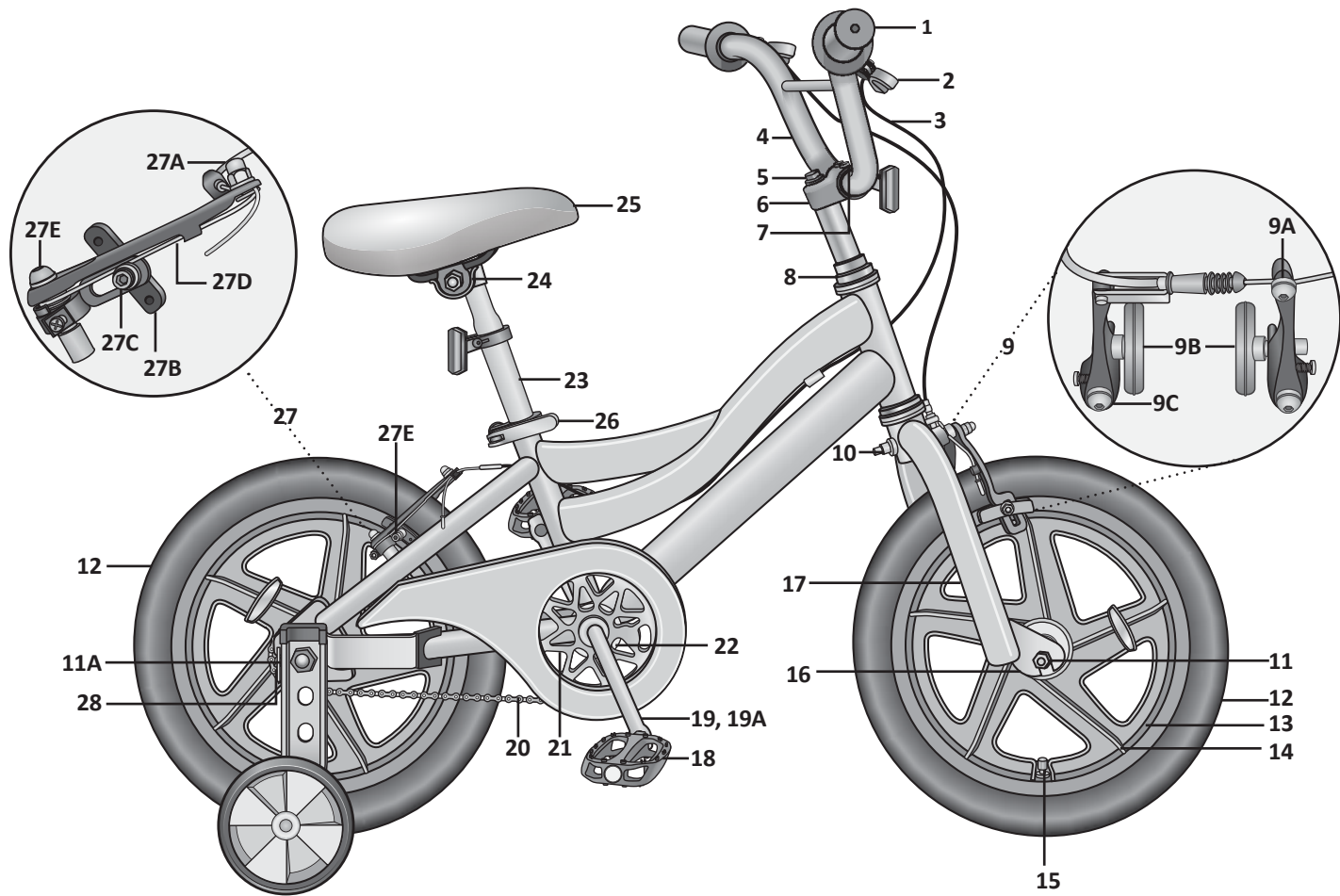
2 Parts Identification

Juvenile Bicycle

Get to know the parts of your bicycle. This will help with assembly, maintenance, and troubleshooting. Models vary in color and style.

	Part name	Torque (in.-lb)
1	Handlebar grip	-
2	Rear brake lever	55 - 70
3	Brake cable	-
4	Handlebar	-
5	Handlebar binder bolt(s)	145 - 200
6	Stem	-
7	Stem binder bolt	100 - 120
8	Headset	175 - 260
9	Caliper brake assembly	50 - 70
9A	Brake cable pinch bolt	50 - 70
9B	Brake pads	-
9C	Brake pads hardware	50 - 60
10	Caliper brake attaching nut	70-85
11	Wheel axle nut (front)	180-240
11A	Wheel axle nut (rear)	240-300
12	Tire	-
13	Rim	-
14	Spoke	-
15	Valve stem	-

	Part name	Torque (in.-lb)
16	Fork dropout	-
17	Fork	-
18	Pedal	300-360
19	Crank arm (1-piece)	300
19A	Crank arm (3-piece)	390
20	Chain	-
21	Chainwheel	-
22	Bottom bracket lockring	300
23	Seat post	-
24	Seat post attaching hardware	130-170
25	Saddle (seat)	-
26	Seat post clamp	60-80
27	Linear brake assembly	-
27A	Brake cable pinch bolt	50-70
27B	Brake pad	-
27C	Brake pad hardware	50-60
27D	Brake spring	-
27E	Brake pivot bolt	17-20
28	Freewheel	-



3 Assembly

WARNING!

- Improper assembly of this product may result in serious injury or death. Always follow the instructions in this manual and check critical components (e.g. wheels, seat, pedals, brakes, derailleurs, tires) before each use.
- We recommend that you consult a bicycle specialist if you have doubts or concerns as to your experience or ability to properly assemble, repair, or maintain your bicycle. If your bicycle was obtained assembled, we recommend that you read these instructions and perform checks specified in this manual before riding.

Your new bicycle was assembled and tuned in the factory and then partially disassembled for shipping. You may have purchased the bicycle already fully assembled and ready to ride **or** in the shipping carton in the partially disassembled form. The following instructions will enable you to prepare your bicycle for years of enjoyable cycling.

For more details on inspection, lubrication, maintenance and adjustment of any area please refer to the relevant sections in this manual. If you have questions about your ability to properly assemble this unit, please consult a qualified specialist before riding.

If you need replacement parts or have questions pertaining to the assembly of your bicycle, call the service line direct at: **1-800-626-2811**. Monday - Friday 8:00 am to 5:00 pm Central Standard Time (CST).

TOOLS REQUIRED

- Phillips head screw driver
- 4 mm, 5 mm, 6 mm and 8 mm Allen wrench
- Adjustable wrench or a 9 mm, 10 mm, 14 mm and 15 mm open and box end wrenches
- A pair of pliers with cable cutting ability

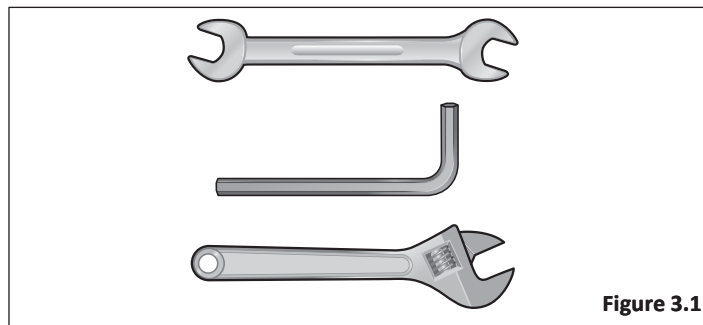


Figure 3.1

GETTING STARTED

- 1 Open the carton from the top and remove the bicycle.
Figure 3.2
- 2 Remove the straps and protective packaging from the bicycle. **Important!** Do not discard packing materials until assembly is complete to ensure that no required parts are accidentally discarded.
- 3 Inspect the bicycle and all accessories and parts for possible shortages. It is recommended that the threads and all moving parts in the parts package be lubricated prior to installation.
Note: We recommend using a lithium based grease on the parts before assembly.

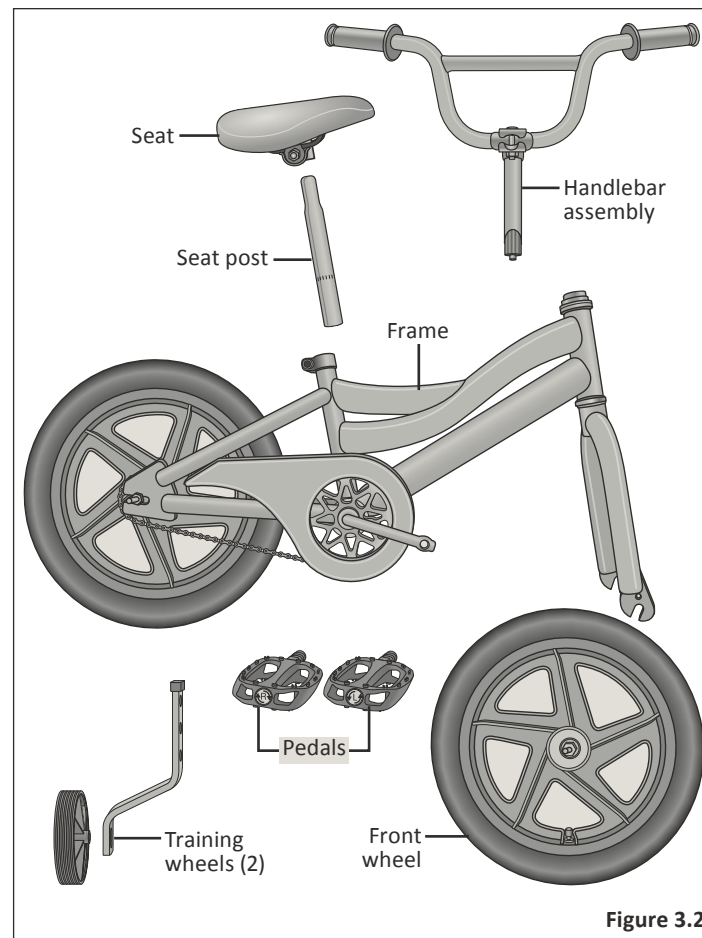


Figure 3.2

ATTACH THE HANDLEBAR

⚠ WARNING!

- Improper attachment of the handlebar may result in damage to the stem post, steering tube and result in loss of control, serious injury or death. Ensure the **minimum insertion marks** on the stem post are **not** visible above the top of the headset.
- Failure to properly tighten handlebar components may result in loss of control, serious injury or death. Always check the handlebar cannot move and is secured to the frame before riding the bicycle.

There are two types of stems that attach the handlebar to the steerer tube. It is either a **quill** or **clamp (threadless) stem**.

Attaching a Quill Stem

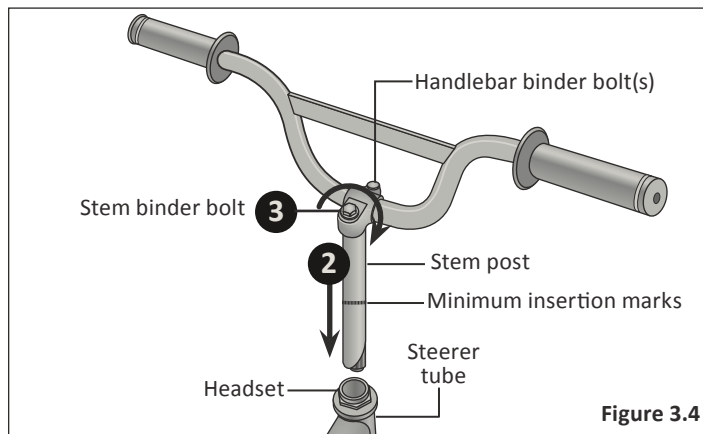
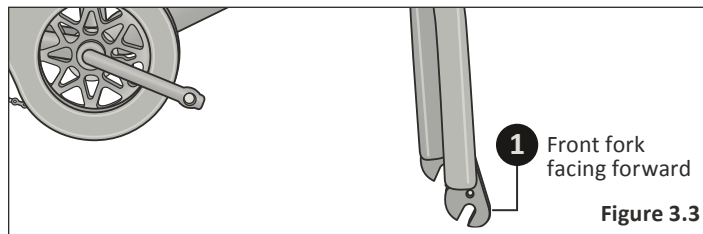
- 1 Turn the front fork to face forward. **Figure 3.3**

Position the handlebar assembly over the steerer tube. Look at all the cables to be sure they run in a smooth arc from the shifter or brake lever to the front brake or cable stop on the frame. **Important!** If they are twisted or kinked, the shifting and braking will not work. **Figure 3.4**

- 2 Insert the stem post into the steerer tube and adjust the handlebar height until the rider feels they have control of the bicycle and are comfortable. See **Section 1, Fig. 1.2: Seat Height and Handlebar Reach** for guidelines.

Important! Be sure the **minimum insertion marks** do **not** go above the top of the headset and are **not** visible.

- 3 Using a 6 mm Allen wrench tighten the stem binder bolt at the top of the stem post. Check the handlebar binder bolt(s) to be sure they are properly tightened and the handlebar is clamped in place. **Note:** See **Section 4: Adjusting the Handlebar** if adjustments are needed.



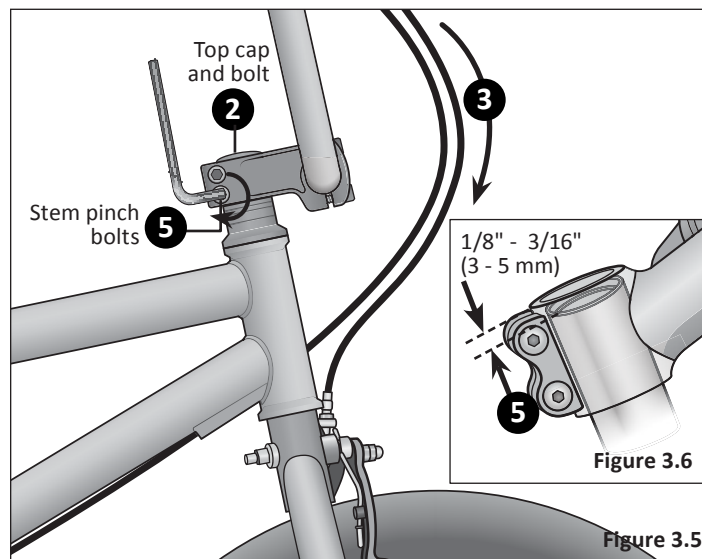
Attaching a Threadless Stem

Important! Do not disassemble the headset or lose any parts. Be sure the end of the fork is on the ground or being held with your free hand, because once you loosen the top cap the fork assembly may fall out of the frame.

- ❶ Turn the front fork to face forward (ie: the fork dropout is in the furthest forward position). **Figure 3.3**
- ❷ Using a 5 mm Allen wrench loosen the top cap bolt on the steerer tube and remove the top cap and bolt. **Important! Do not** remove the spacers. **Figure 3.5**
- ❸ Position the handlebar assembly over the steerer tube. Look at all the cables to be sure they run in a smooth arc from the shifter or brake lever to the front brake or cable stop on the frame. **Important!** If they are twisted or kinked, the shifting and braking will not work.
- ❹ While holding the fork assembly in place, use a 6 mm Allen wrench and loosen the stem pinch bolts. Slide the handlebar assembly onto the steerer tube.
- ❺ Align and center the stem to the fork and wheel. Tighten the stem pinch bolts until there is no play between the stem and stem tube. **Note:** There should be a 3 to 5 mm ($1/8'' - 3/16''$) gap between the top of the stem and stem post. **Figure 3.6**
- ❻ Place the top cap onto the top of the steerer tube. Insert and tighten the top cap bolt until it is snug. **Do not over tighten.**

- ❼ Using a 5 mm Allen wrench tighten the top cap bolt. Do the following checks to determine if the headset is properly set. Tighten or loosen the top cap bolt if necessary.
 - Lift up the front wheel of the bicycle, if the wheel **does not** move freely left to right the headset is too tight.
 - Hold the handlebar, close the brakes and rock the fork back and forth. If you hear a knock or clunking sound the headset is too loose.

Note: If needed, see **Section 4: Adjusting the Headset** for more detailed information. See **Section 4: Adjusting the Handlebar** for information on aligning the handlebar.



ATTACH THE FRONT BRAKE CABLE

⚠ WARNING!

Failure to properly set the brakes may result in the inability to stop the bicycle movement and cause serious injury or death. Be sure the brakes are functioning properly before using the bicycle.

If the brakes are not attached follow these steps:

- 1 Rotate the cable adjustment barrel and cable nut until the slots are aligned with the slot on the brake lever body. **Figure 3.7**
- 2 Press the brake lever towards the grip.
- 3 Slide the brake cable through the slots and place the cable head into the brake lever. **Figure 3.8**
- 4 Release the brake lever. **Figure 3.9**
- 5 Lightly pull on the cable, and rotate the cable nut and cable barrel so they are no longer aligned.

Note: See **Section 4: Adjusting the Brakes** if adjustments are needed.

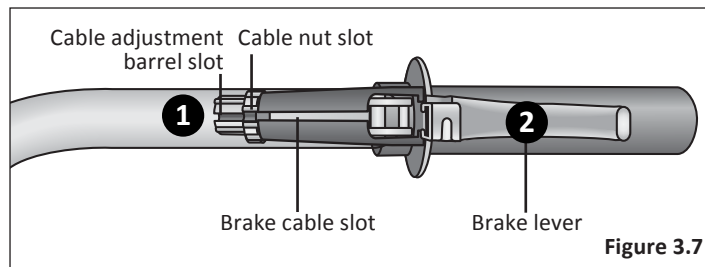


Figure 3.7

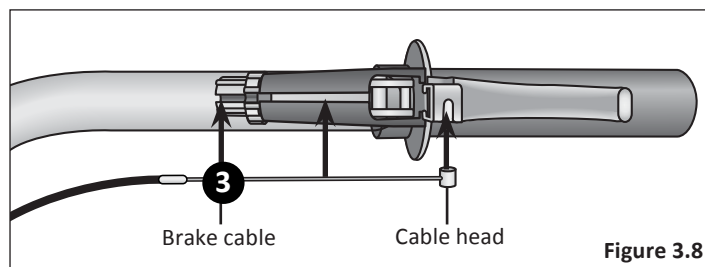


Figure 3.8

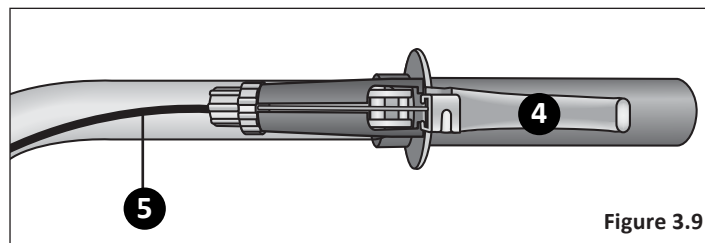


Figure 3.9

ATTACH THE FRONT WHEEL

There are two types of front wheel assemblies; nutted with **step retaining washer**, and nutted with **clip retaining washer**.

Note: Quick-release wheels may be on both the front and rear wheels or just one. Also, some tire tread patterns have a direction, so compare your front tire and rear tire of the bicycle so that both tread patterns face the same way.

Nutted with Step Retaining Washer

- 1** Position the front wheel between the front fork legs with the axle resting inside the fork drop outs. **Important!** Be sure the wheel is as **centered** as possible between the fork legs. **Figure 3.10**
- 2** Place a step washer on each end of the axle. **Note:** The flat side of the step washer must be facing out, and the protrusion on the washer must fit into the fork drop out. **Figure 3.11**
- 3** Attach the two axle nuts on the axle. Tighten one nut part way, then tighten the other nut. Repeat until both sides are tightened securely. Be sure that the wheel is centered between the fork legs.
- 4** If the wheel is off center, loosen the axle nut on the side that has a smaller gap between tire and fork leg, and use your hand to push the wheel to a centered position; hold the wheel with one hand, and tighten the axle nut and check again. Repeat if needed to be sure the wheel is centered and securely tightened.

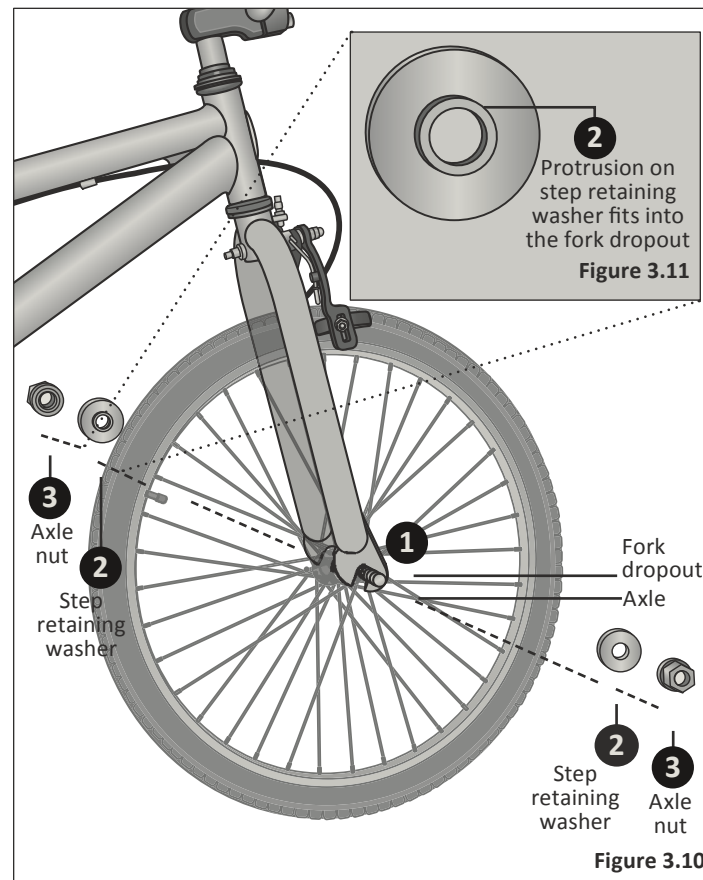


Figure 3.10

Nutted with Clip Retaining Washer

- 1 Loosen the axle nuts on the front wheel. If there is a washer inside of the axle nut, it belongs outside of the fork dropouts. **Figure 3.12**
- 2 Position the front wheel between the front fork legs with the axle resting inside the fork drop out.

Important! Be sure the wheel is as *centered* as possible between the fork legs.

- 3 Place the clip retaining washer on the axle and slide it up against the fork drop out. Make sure the hooked end is inside the small hole of the fork dropout. **Figure 3.13**
- 4 Place the two outer axle nuts on and tighten evenly. Tighten one side part way, then tighten the other side and repeat until both sides are tightened securely. Be sure that the wheel remained centered between the fork legs.
- 5 If it is off center, loosen the axle nut on the side that has a smaller gap between tire and fork leg and use your hand to push the wheel to a centered position; hold the wheel with one hand and tighten the axle nut and check again. Repeat if needed to be sure the wheel is centered and securely tightened.

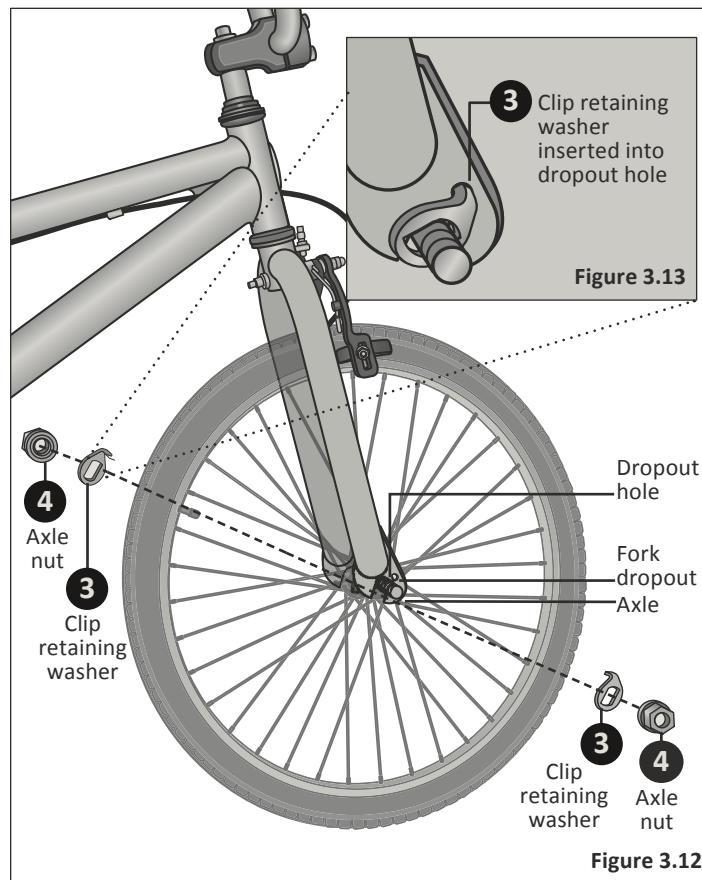


Figure 3.12

ATTACH THE SEAT

⚠ WARNING!

Improperly adjusted seat height could affect the rider's ability to reach the handlebar and pedals resulting in unexpected movement, loss of control, and serious injury or death. Follow these guidelines when adjusting the seat height. Always ensure the seat post **minimum insertion marks** are below the seat clamp and **cannot** be seen. Ensure the seat clamp is locked and the seat cannot move.

- 1 Unlock the quick-release lever and insert the seat post into the seat tube. **Figure 3.14**
- 2 Adjust the seat height up or down until the rider feels they have control of the bicycle and is comfortable.

Important! Be sure the **minimum insertion marks** do not go past the top of the seat clamp and are **not** visible. See **Section 1, Fig. 1.2: Seat Height and Handlebar Reach**.

- 3 Close the quick-release lever and lock the seat in place. If there is not enough pressure to hold the seat in place open the quick-release lever. With one hand on the quick-release lever and one hand on the adjustment nut, start to hand tighten the adjustment nut until you start to feel some resistance against the post clamp. **Do not** attempt to tighten by turning the quick-release lever. The quick-release lever is for closing, the adjustment nut is for adjusting the pressure.

- 4 Try to close the quick-release lever. If it closes easily, open it up and tighten the adjustment nut further. If it is too difficult to close, open the quick-release lever up and loosen the adjustment nut a little and try again.

Important! You should feel resistance when you close the quick-release lever that should leave a temporary impression on your fingers. Open and close the handle to ensure the seat is securely locked in place.

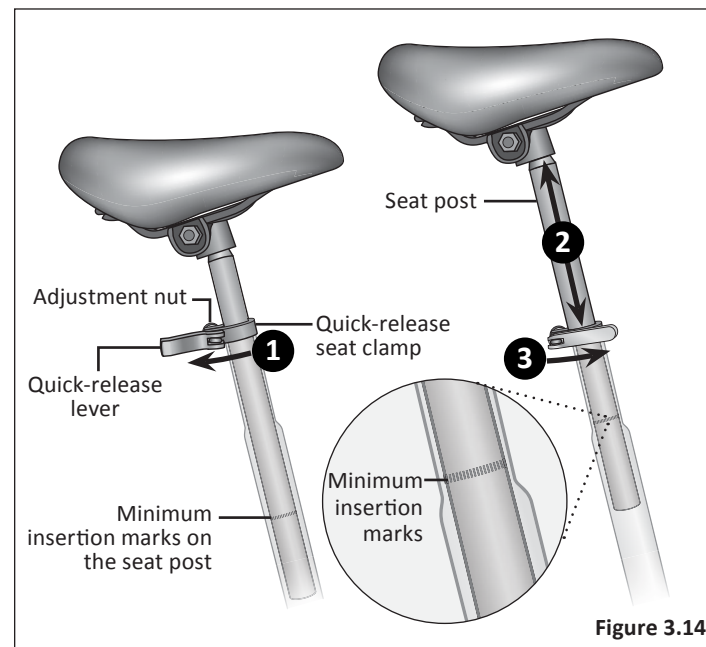


Figure 3.14

ATTACH THE PEDALS

⚠ WARNING!

- Attachment of an incorrect pedal into a crank arm can strip pedal threads and cause irreparable damage. Visually match the R and L stickers on the pedal and crank arm before attaching the pedals. Before your first ride, please check to ensure your pedals are attached correctly.
- It is very important that you check the crank set for correct adjustment and tightness before riding your bicycle.

- 1 Match the pedal marked **R** with the right-hand crank arm, and match the pedal marked **L** with the left-hand crank arm. **Figure 3.15**
- 2 Place the threaded pedal into the threaded hole on the crank arm.
- 3 By hand, slowly turn the spindle the correct direction. Clockwise for right side pedal, counterclockwise for left side pedal. **Important!** Stop if you feel resistance! This may be an indication the spindle is entering the hole at an angle. Remove the spindle and repeat step two and three.
- 4 If the spindle is entering the hole cleanly then use a 15 mm wrench or pliers to tighten completely.
- 5 Repeat steps 1- 4 for the remaining pedal.

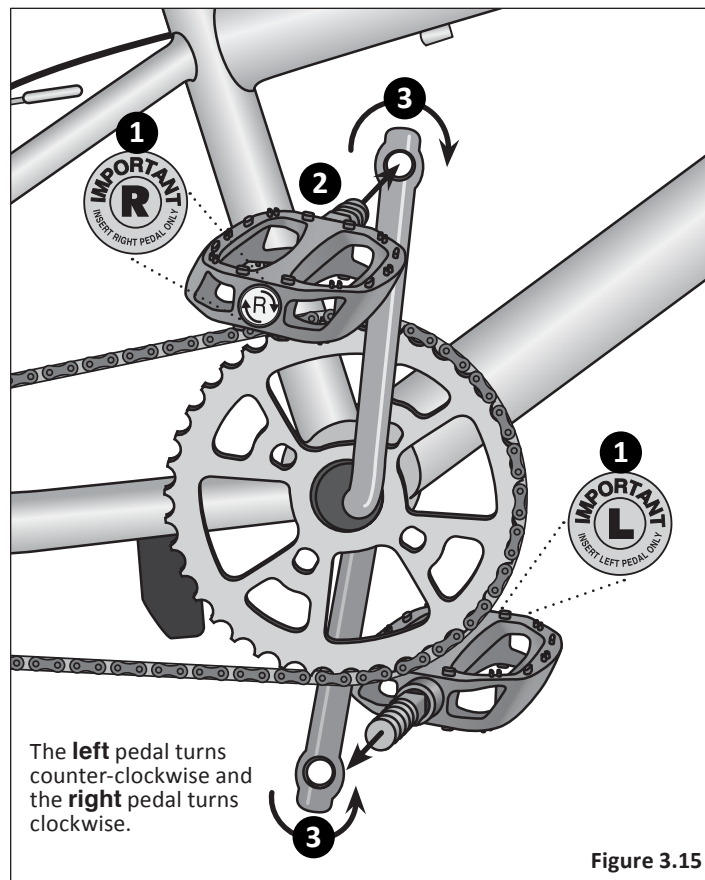


Figure 3.15

ATTACH THE TRAINING WHEELS

WARNING!

Failure to properly assemble and set up the training wheels may cause instability and tip over resulting in serious injury or death. Always check the training wheels before using the bicycle.

Note: Not all bicycles will accept training wheels. If your bicycle did not come stock with training wheels, please call Pacific Cycle to help determine if after-market training wheels can be attached.

There are three different braces used to attach the training wheels to the bicycle: the **c-shape brace**, the **flat brace** and the **flat brace with stabilizer**. Determine which brace was included with your bicycle and follow the instructions below.

C-Shape Brace

- 1 Remove the outer axle nut and washer from the rear wheel axle. **Figure 3.16**
- 2 Place the brace stabilizer washer onto the axle and align the washer so that the notch on the washer fits into the frame drop out.
- 3 Place the C-shaped wheel brace onto the axle.

- 4 Replace the washer and axle nut. Tighten the axle nut securely, making sure that the wheel brace stays in the proper vertical position.
- 5 The elongated hole on the wheel brace allows the training wheel height to be adjusted for proper fit.

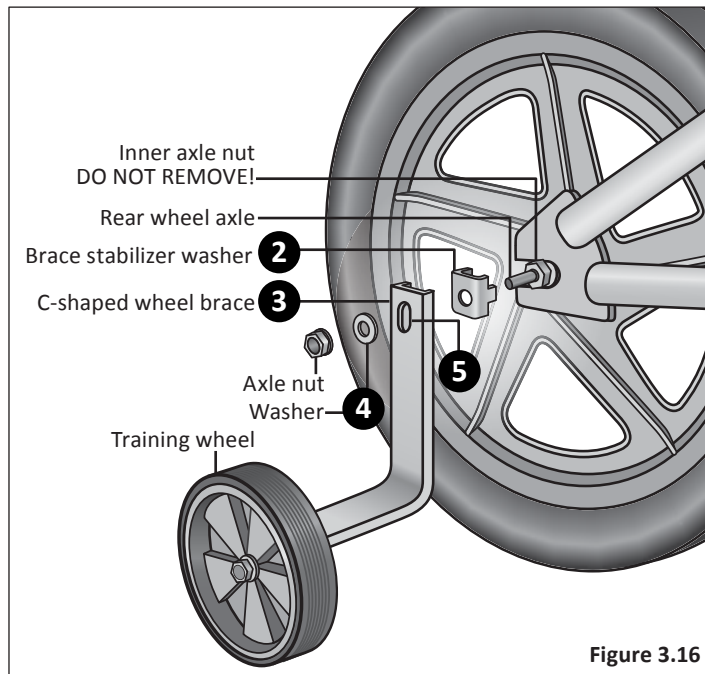


Figure 3.16

3 Assembly

Flat Brace

- ❶ Remove the outer axle nut and washer from the rear wheel axle. **Figure 3.17**
- ❷ Place the flat wheel brace onto the axle.
- ❸ Place the brace stabilizer washer onto the axle and align it so that the notch fits into the rear frame drop out.
- ❹ Replace the washer and axle nut.
- ❺ Tighten the axle nut securely, making sure that the wheel brace stays in the proper vertical position. The elongated hole on the wheel brace allows the training wheel height to be adjusted for proper fit.

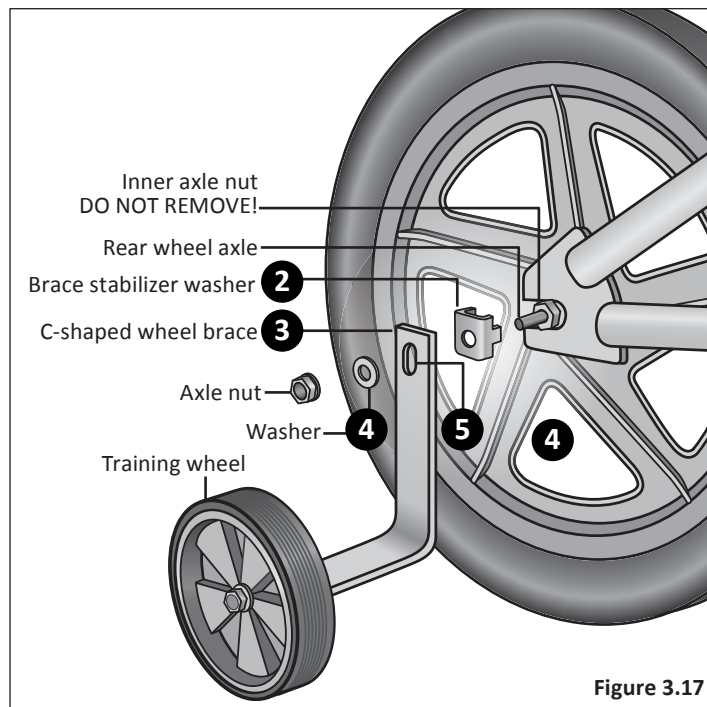


Figure 3.17

Training Wheel Stabilizer Bracket

- 1 Remove the outer axle nut and washer from the rear wheel axle. **Figure 3.18**
- 2 Insert the training wheel brace into the stabilizer bracket so that the forked end of the stabilizer bracket faces in.
- 3 Slide assembly onto the rear axle so that the forked end hooks around the chain stay of the bicycle.
- 4 Replace the axle nut and washer, secure tightly.
- 5 The elongated hole on the brace allows for raising and lowering the training wheel to the proper height.

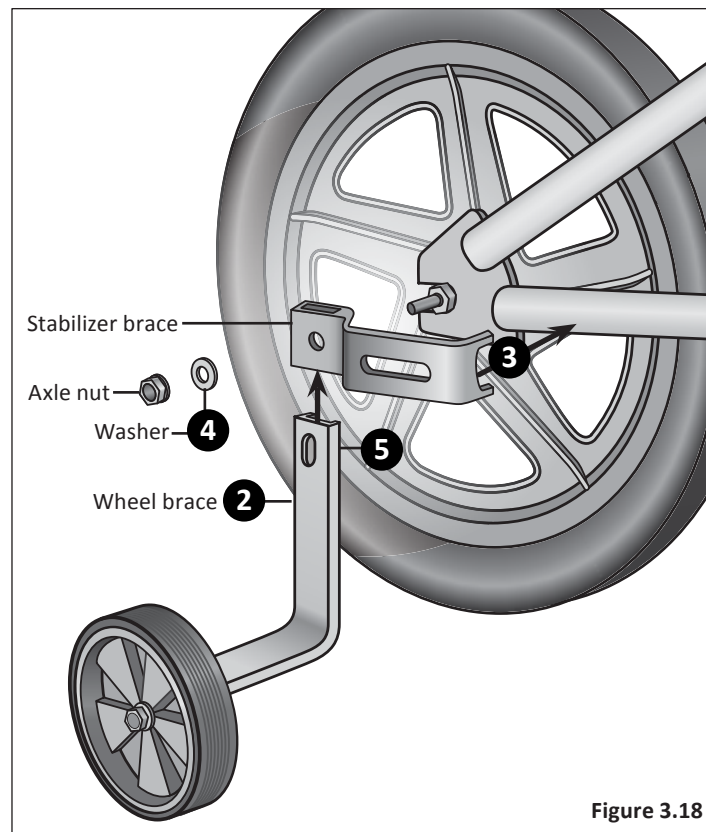


Figure 3.18

ATTACH THE PEGS

Important! Periodically check to make sure pegs are tight. Some models may come equipped with 2 or 4 pegs. To install:

- 1 **Do not** loosen or remove axle nuts. **Figure 3.19**
- 2 Check to make sure axle nuts are properly tightened before installing pegs.
- 3 Thread the pegs on the axle over the axle nut.
- 4 Insert a screwdriver or similar tool through the peg holes and tighten by turning the peg with the tool. **Figure 3.20**
- 5 Repeat steps three and four for the remaining pegs.

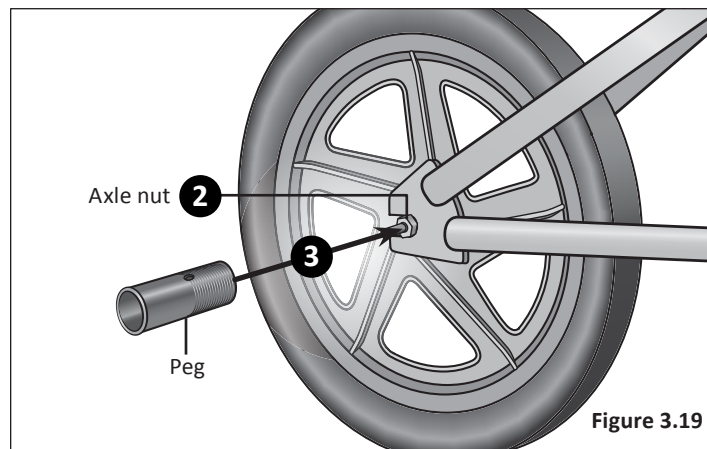


Figure 3.19

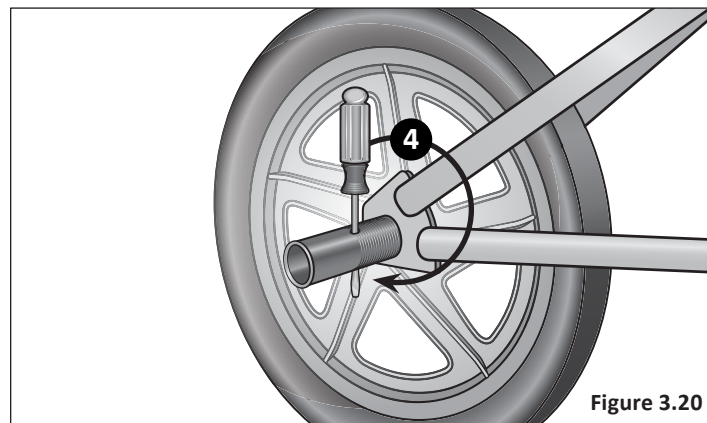
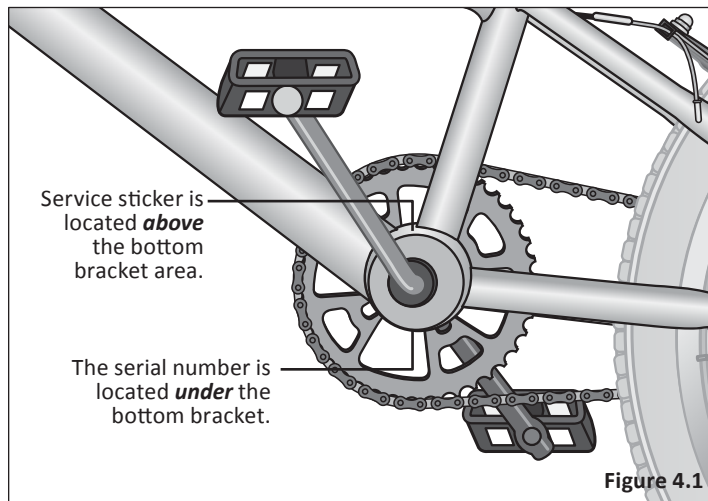


Figure 3.20

4 Adjustments

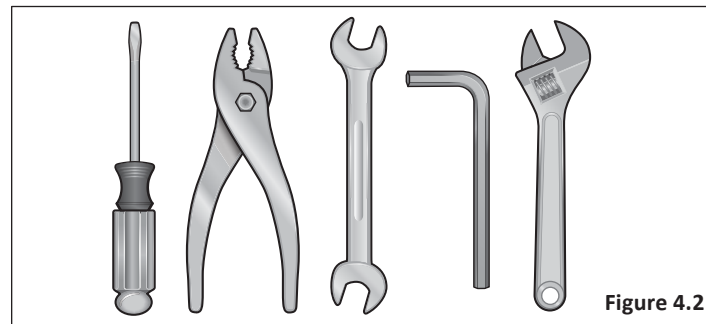
After your bicycle is assembled you will need to make adjustments. If you need replacement parts or have questions pertaining to the assembly of your bicycle, call the service line direct at: **1-800-626-2811**. Monday - Friday 8:00 am to 5:00 pm Central Standard Time (CST).

Note: You will need your model number and date code located on the service sticker near the bottom bracket area. **Figure 4.1**



TOOLS REQUIRED

- Phillips head screw driver
- 4 mm, 5 mm, 6 mm and 8 mm Allen wrench
- Adjustable wrench or a 9 mm, 10 mm, 14 mm and 15 mm open and box end wrenches
- A pair of pliers with cable cutting ability



ADJUSTING THE BRAKES

WARNING!

Failure to properly set the brakes may result in the inability to stop the bicycle movement and cause serious injury or death. Be sure the brakes are functioning properly before using the bicycle.

Adjusting Linear Pull Brakes

Attaching the Brake Cable to the Brake Carrier

- ❶ Squeeze the two brake arms together until the brake pads touch the wheel rim. **Figure 4.3**
- ❷ With your other hand, pull on the brake cable and insert the end of the “noodle” into the brake carrier.

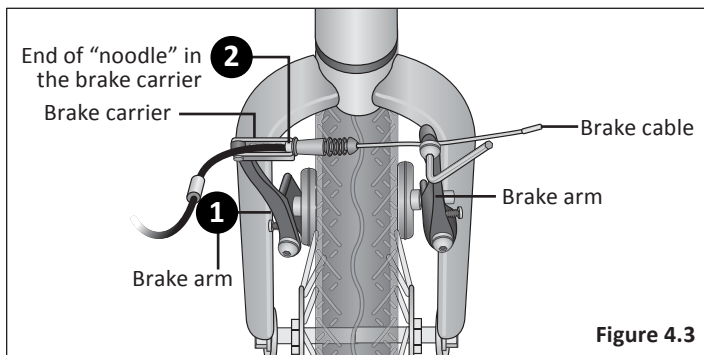


Figure 4.3

Adjusting the Brake Pads

- ❸ Check the brake cable is seated in the brake lever. Using a 5 mm allen wrench loosen the cable anchor bolt enough so the brake cable can move freely. **Figure 4.4**
- ❹ Pull the brake cable through the cable anchor so the left brake arm moves towards the rim and there is approximately a 1/8" (3 mm) gap between the brake pad and rim.
- ❺ Move the right brake arm towards the rim until there is approximately a 1/8" (3 mm) gap between the brake pad and rim.
- ❻ Using the 5 mm allen wrench, firmly tighten the cable anchor bolt completely.

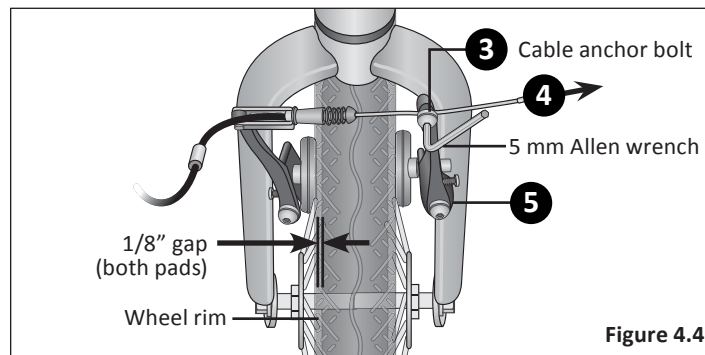


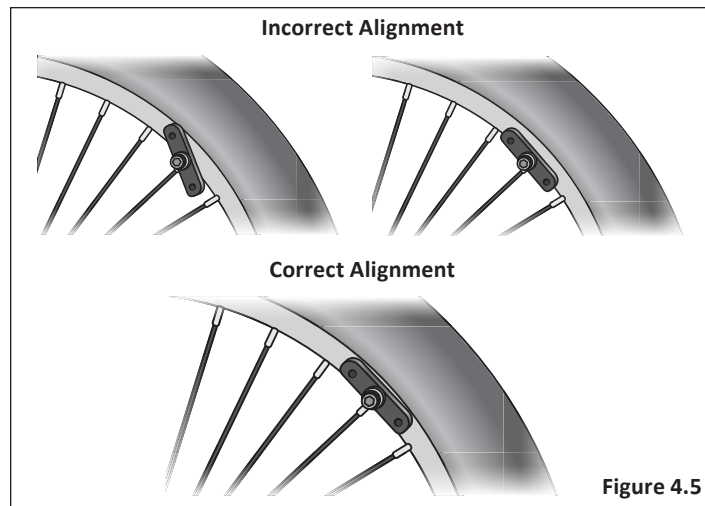
Figure 4.4

Important! Before riding the bicycle it is important to check the brakes. If you squeeze the brake lever and one brake arm moves more than the other (or not at all) the brake is not centered. You will need to fine-tune the brake pads. Multiple adjustments may be necessary to center the brake pads, correctly set the brake pressure, and set the gap between the brake pad and rim.

Adjust the Brake Pad Alignment

Check that all brake pads are aligned correctly. If not, use a 5 mm allen wrench and loosen the bolt enough so you can reposition the pad. Position the pad so it is evenly centered on the rim. Retighten the bolt after positioning the pad correctly.

Figure 4.5



Center the Brake Pads

Rotate the wheel and look straight down at the gap between the rim, brake pads, and fork. If you find the gap between these are uneven it indicates the wheel, the brake pads, or both are not centered.

- 1 If you see the gap between the fork and wheel is uneven loosen the axle nuts and adjust the wheel until centered.

Figure 4.6

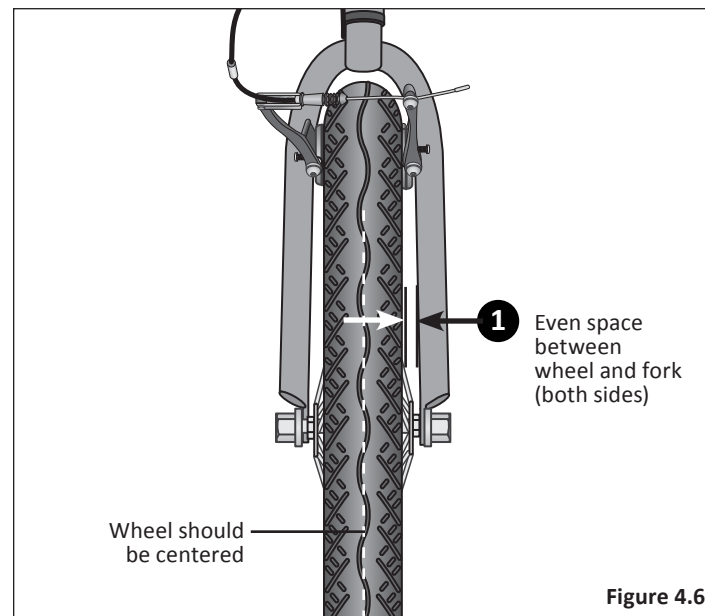


Figure 4.6

4 Adjustments

- 2 If the gap between the brake pad and wheel is uneven, adjust the position of the brake pad.
 - Using a phillips head screwdriver, adjust the brake arm screws on either side of the brake arm. **Note:** Turning the screw **clockwise** moves the pad away from the rim. Turning the screw **counterclockwise** moves the pad towards the rim. **Figure 4.7**
 - Start with the side where the pad is closest to the rim or is not moving properly. Turn the screw to move the pad towards or away from the rim.
 - Adjustments to these screws should be made in small increments, one-quarter to one-half turn then checked by activating the brake lever three to four times after each adjustment. If you continue to adjust the screw until you have noticeable movement you will run out of adjustment.
- 3 Pull and release the brake lever a few times and check if the pads are centered.
- 4 If necessary, repeat steps one through three until the brake pads are centered and the gap between the pads and rim is close to 1/8 inch.

Note: If you run out of adjustment capability on one side, adjust the screw on the opposite side. If you run out of adjustment capability on both screws do a minor adjustment to the brake cable. Adjustments should be made to each side as equally as possible to prevent running out of adjustment capability.

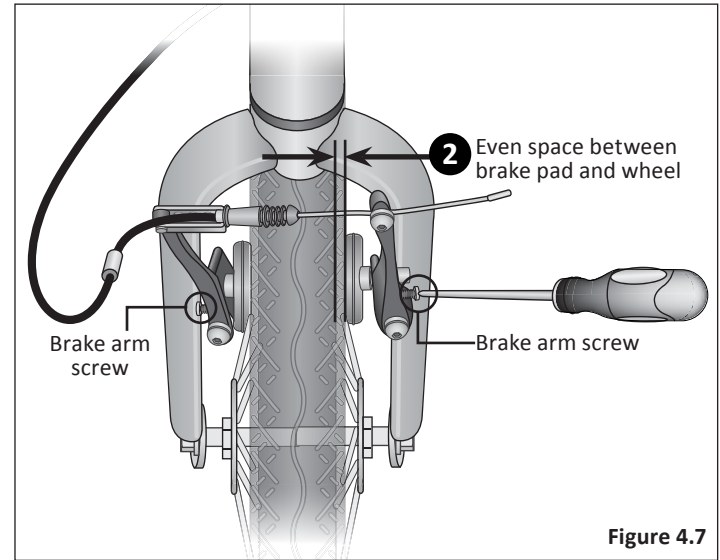


Figure 4.7

Adjusting the Side-pull Caliper Brake

Attaching the Brake Cable to the Brake Carrier

- ❶ If the brake cable is disconnected at the caliper, thread the brake wire through the adjustment barrel. **Figure 4.8**
- ❷ Loosen the cable anchor bolt until you can see a gap large enough for the cable wire.
- ❸ Thread the cable wire through the gap. By hand, screw the cable anchor bolt snug enough to hold the cable wire.
- ❹ Check the cable end is seated in the brake lever.
- ❺ With one hand squeeze the caliper arms until both brake pads contact the rim. Loosen the cable anchor bolt just enough to allow the cable wire to move freely.
- ❻ While holding the caliper closed, use your other hand to pull the brake cable tight (through the cable anchor bolt). Check that the cable end is seated in the brake lever and the barrel adjuster of the brake.
- ❼ Tighten the cable anchor bolt as much as you can by hand and then while still squeezing the caliper arms until both brake pads contact the rim, tighten the cable anchor bolt fully with a 10 mm box wrench. **Note:** Use the adjustment barrel(s) to fine-tune the brake cable tension. Turning the barrel clockwise will loosen the brake cable tension, counter-clockwise will tighten the brake cable tension. **Figure 4.9**

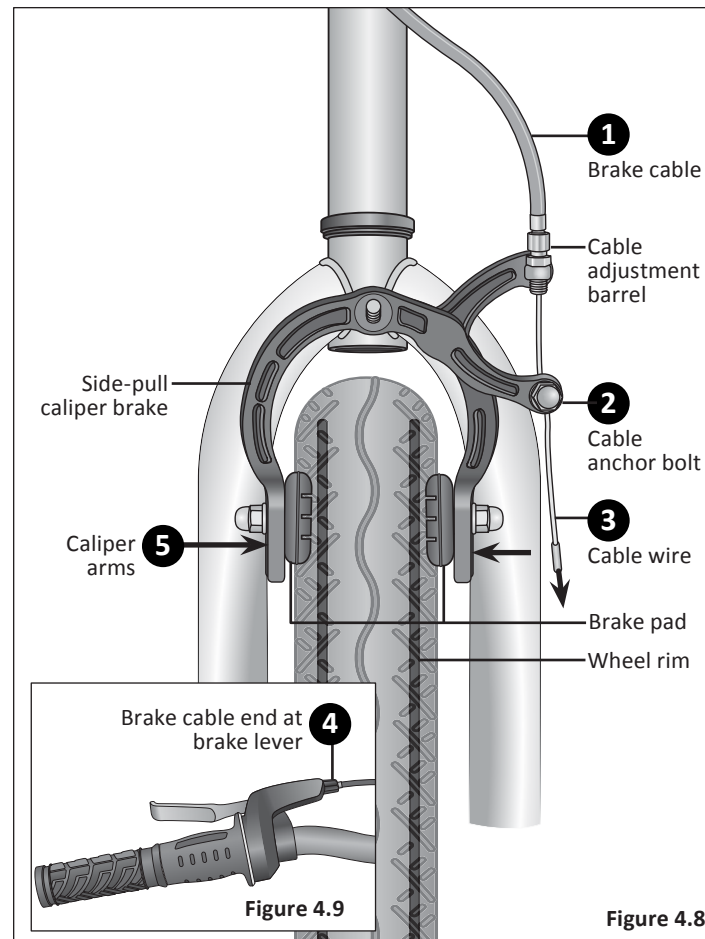


Figure 4.8

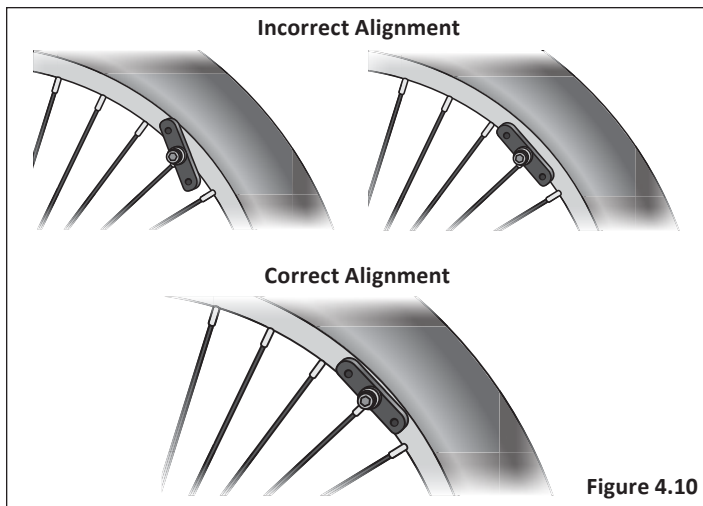
Figure 4.9

4 Adjustments

Adjusting the Brake Pads

Important! Before riding the bicycle it is important to check the brakes. If you squeeze the brake lever and one brake arm moves more than the other (or not at all) the brake is not centered. You will need to fine-tune the brake pads. Multiple adjustments may be necessary to center the brake pads, correctly set the brake pressure and set the gap between the brake pad and rim.

- 1 Check that all brake pads are aligned correctly. If not, use a 5 mm Allen wrench and loosen the bolt enough so you can reposition the pad. Position the pad so it is evenly centered on the rim. Retighten the bolt after positioning the pad correctly. **Figure 4.10**

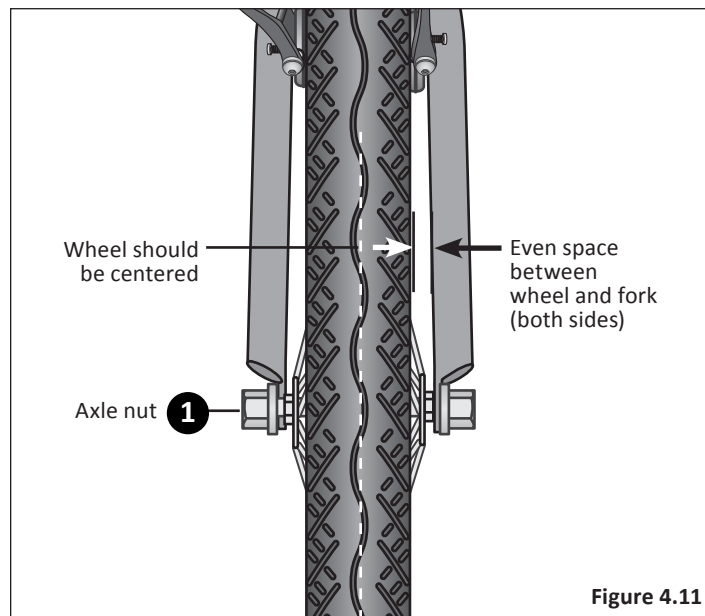


Center the Brake Pads

Rotate the wheel and look straight down at the gap between the rim, brake pads and fork. If you find the gap between these are uneven it indicates the wheel, the brake pads, or both are not centered.

- 1 If you see the gap between the fork and wheel is uneven loosen the axle nuts and adjust the wheel until centered.

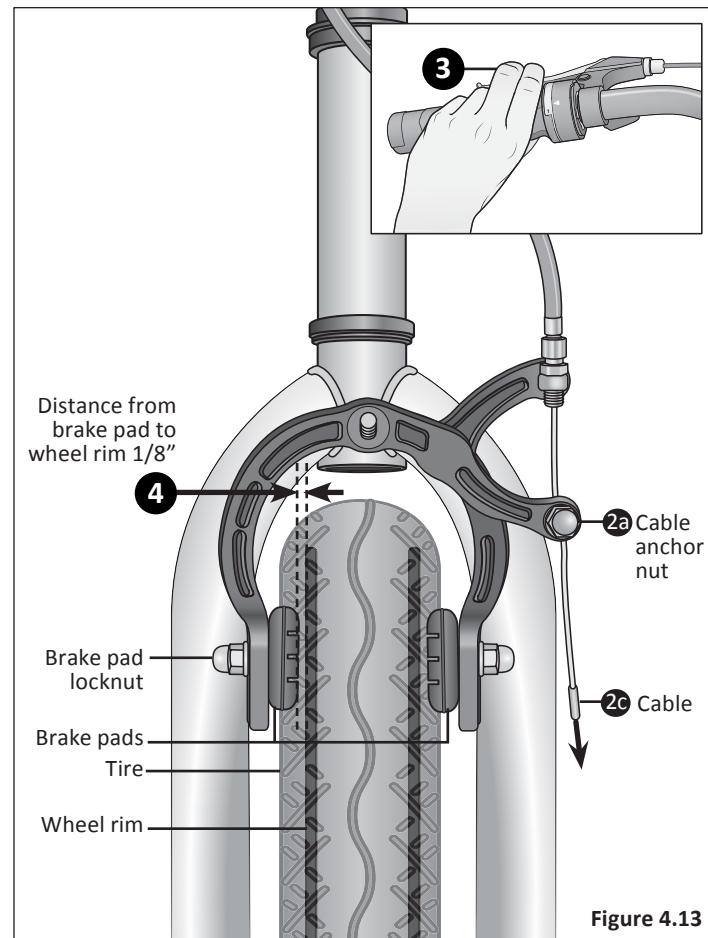
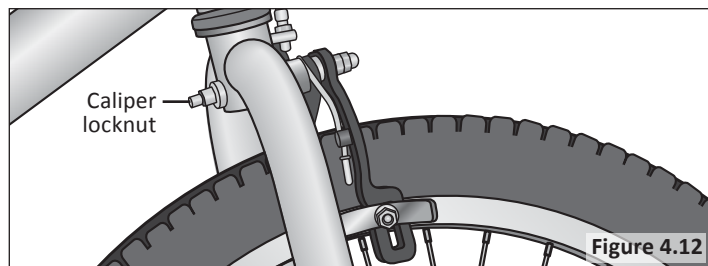
Figure 4.11



- 2 If the gap between the brake pad and wheel is uneven, adjust the cable tension. **Figure 4.13**
 - 2a Loosen the cable anchor nut.
 - 2b Using one hand, squeeze the brake pads against the rim.
 - 2c Pull the slack out of the cable.
 - 2d While holding tension on the cable, tighten the cable anchor nut.

Note: Watch the brake if it begins to shift or rotate, then release the brake lever and use your hand to rotate the brake caliper back until both sides of the brake move equally. Sometimes it is necessary to over-rotate the brake slightly, so that as you tighten the caliper locknut, the brake will end up centered. **Figure 4.12**

- 3 Pull and release the brake lever a few times and check if the pads are centered.
- 4 If necessary, repeat steps one through three until the brake pads are centered and the gap between the pads and rim is close to 1/8 inch.



4 Adjustments

Check the Brakes

- ❶ After adjusting the brake, squeeze the brake lever as hard as you can several times and re-inspect the brake pads, centering and brake lever travel. If the brake pads are no longer square to the rim, repeat brake pad adjustments.
Figure 4.14
- ❷ Be sure that brake pads return to a centered position by spinning the wheel and listening for the brake pad rubbing the rim on either side. Re-adjust as needed.
- ❸ Check that the brake cable tension allows the brake lever about 1/3 of the travel before the brake pads contact the rim. If the cable has stretched or slipped, re-adjust the brake cable tension by loosening cable anchor bolt and pulling more cable through the anchor or use brake adjustment barrels for fine tuning brake cable tension.

Brake is correctly adjusted when:

- The brake pads do not drag on the rim when the brake is open. **Figure 4.15**
- Both brake pads move away from the rim equally when the brake is released.
- When the brake is applied, the brake pads contact the rim before the brake lever reaches about 1/3 of the way to the handlebar.

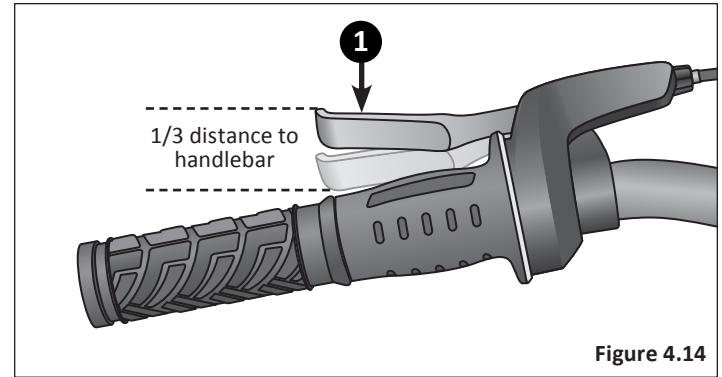


Figure 4.14

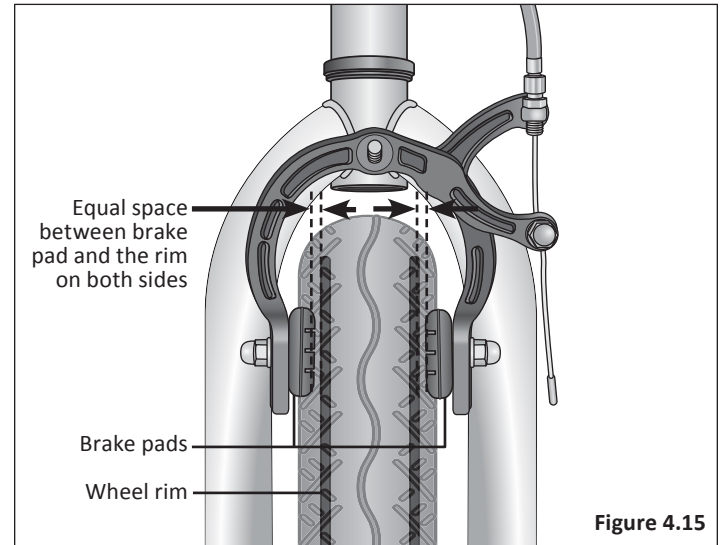


Figure 4.15

ADJUSTING THE SEAT HEIGHT

⚠ WARNING!

Improperly adjusted seat height could affect the rider's ability to reach the handlebar and pedals resulting in unexpected movement, loss of control, and serious injury or death. Follow these guidelines when adjusting the seat height. Always ensure the seat post **minimum insertion marks** are below the seat clamp and **cannot** be seen. Ensure the seat clamp is locked and the seat cannot move.

- 1 Unlock the quick-release lever. **Figure 4.16**
- 2 Adjust the seat height up or down until the rider feels they have control of the bicycle and are comfortable.

Important! Be sure the **minimum insertion marks** do not go past the top of the seat clamp and are **not** visible. See **Section 1, Fig. 1.2: Seat Height and Handlebar Reach**.

- 3 Close the quick-release lever and lock the seat in place. If there is not enough pressure to hold the seat in place open the quick-release lever. With one hand on the quick-release lever and one hand on the adjustment nut, start to hand tighten the adjustment nut until you start to feel some resistance against the seat clamp. **Do not** attempt to tighten by turning the quick-release lever. The quick-release lever is for closing, the adjustment nut is for adjusting the pressure.

- 4 Try to close the quick-release lever. If it closes easily, open it up, and tighten the adjustment nut further. If it is too difficult to close, open the quick-release lever up, and loosen the adjustment nut a little and try again.

Important! You should feel resistance when you close the quick-release lever that should leave a temporary impression on your fingers. Open and close the handle to ensure the seat is securely locked in place.

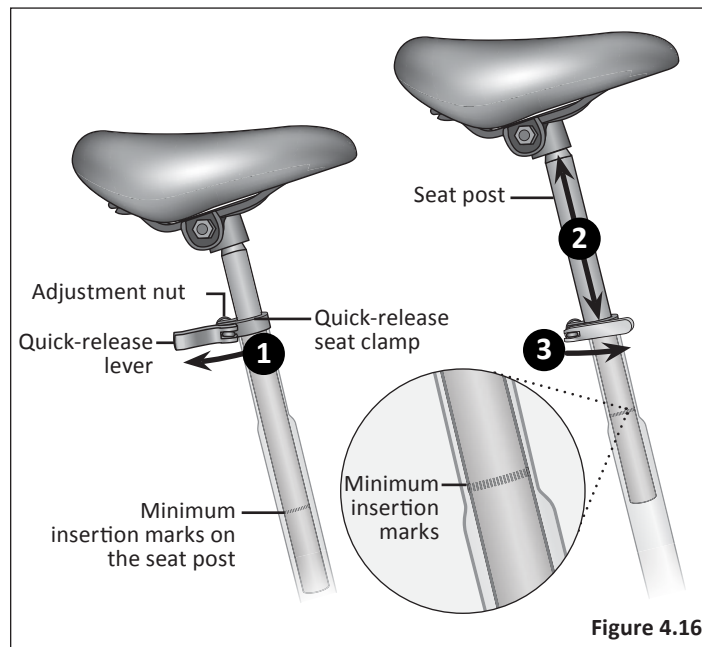


Figure 4.16

ADJUSTING THE HANDLEBAR

⚠ WARNING!

- Improper adjustment of the handlebar may result in damage to the stem post, steering tube and result in loss of control, serious injury or death. Ensure the **minimum insertion marks** on the stem post are **not** visible above the top of the headset.
- Failure to properly tighten handlebar components may result in loss of control, serious injury or death. Always check the handlebar is functioning properly and secured to the frame before riding the bicycle.

Adjusting the Handlebar Height

Instructions for adjusting the handlebar height depend on whether your bicycle has a **quill** or **clamp (threadless) stem**. Refer to **Section 3: Attach the Handlebar** for instructions on adjusting the handlebar height.

Align the Handlebar

- 1 Stand in front of the handlebar and hold the front wheel between your legs.
- 2 Using a 6 mm Allen wrench, loosen the stem binder bolt, or pinch binder bolts, and move the handlebar left or right until it is aligned with the front wheel. **Figure 4.17**

- 3 Tighten the stem binder bolt and check the handlebar is securely attached and functioning properly.

Adjust the Handlebar Angle

- 1 Using a 6 mm Allen wrench loosen the handlebar binder bolt(s). **Figure 4.17**
- 2 Rotate the handlebar into the desired position.
- 3 Check that the handlebar is centered to the frame and front wheel. Sit on the seat and check your reach to grips, shifters, and brakes. Refer to **Section 1: Seat Height and Handlebar Reach** for guidelines.
- 4 Tighten the handlebar binder bolt(s) and check the handlebar is securely attached and functioning properly.

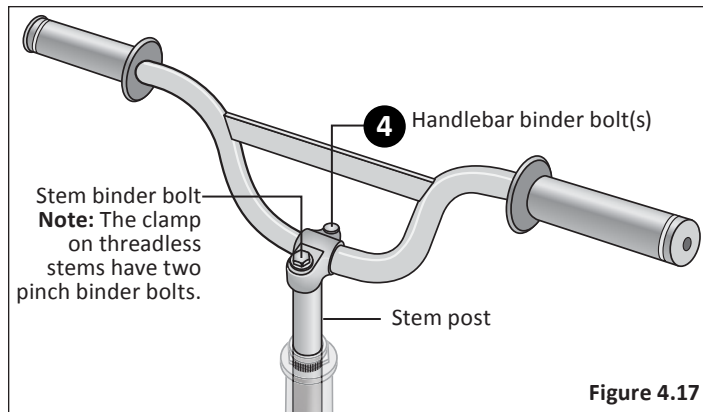


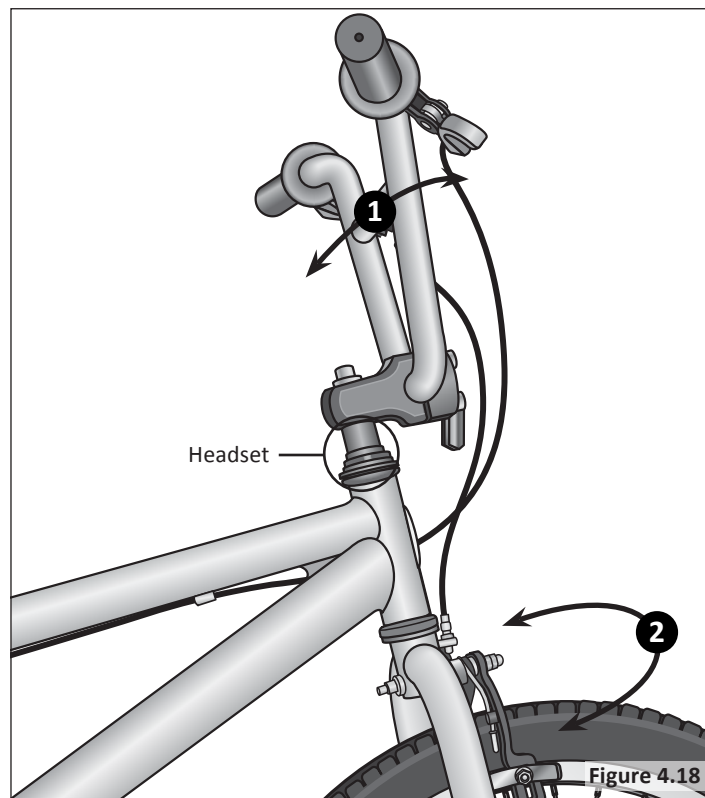
Figure 4.17

ADJUSTING THE HEADSET

Threadless headsets are similar to threaded headsets, they use two sets of bearings and bearing cups. Unlike a threaded headset, a threadless headset does not have an upper threaded race or use a threaded steerer tube. Instead the steerer tube extends from the fork all the way through the head tube and above the headset and is held in place by the stem clamped on top.

Conduct the following checks to determine if there is play in the headset:

- 1 **Shakiness:** Apply the front brake and push the handlebars back and forth, front to back. Or if the bicycle is on a workstand and the front wheel removed, push and pull on the forks. If you feel a knocking sensation or "clunk" it means the headset is too loose.
- 2 **Stiffness:** Lift the front of the frame so the front wheel is off the ground. The handlebar and wheel should flop to one side or another. If there is drag or binding the headset is too tight.



4 Adjustments

- 1 Loosen the top cap bolt and remove the top cap.

Important! Do not disassemble the headset or lose any parts. Be sure the end of the fork is on the ground or being held with your free hand, because once you loosen the top cap the fork assembly may fall out of the frame. **Figure 4.19**

- 2 Check that the gap between the top of the steerer tube and top of the stem is between 3 - 5 mm (1/8" - 3/16").
Figure 4.20

If the gap is not correct add or remove spacers until it is. The stem needs to press down on the spacers in order to adjust the bearings. If the gap is correct then re-install the top cap and tighten the top cap bolt until it is snug. **Do not over tighten.**

- 3 Slightly loosen the stem pinch bolts. The stem probably won't move but make sure the stem remains aligned with the fork and wheel.
- 4 Re-install and tighten the top cap down with a 1/4 to 1/2 turn of the top cap screw and test for shakiness in the headset. If there is still play in the headset then turn the top cap bolt another 1/4 to 1/2 turn. Repeat this process until the shakiness is gone.
- 5 Lift up the front wheel of the bicycle, if the wheel **does not** move freely left to right the top cap bolt is too tight. If this is the case turn the top cap bolt back some.

- 6 Repeat steps 3 and 4 until there is no play in the headset. If the play in the headset cannot be rectified with these adjustments see a **qualified bicycle mechanic for these repairs.**

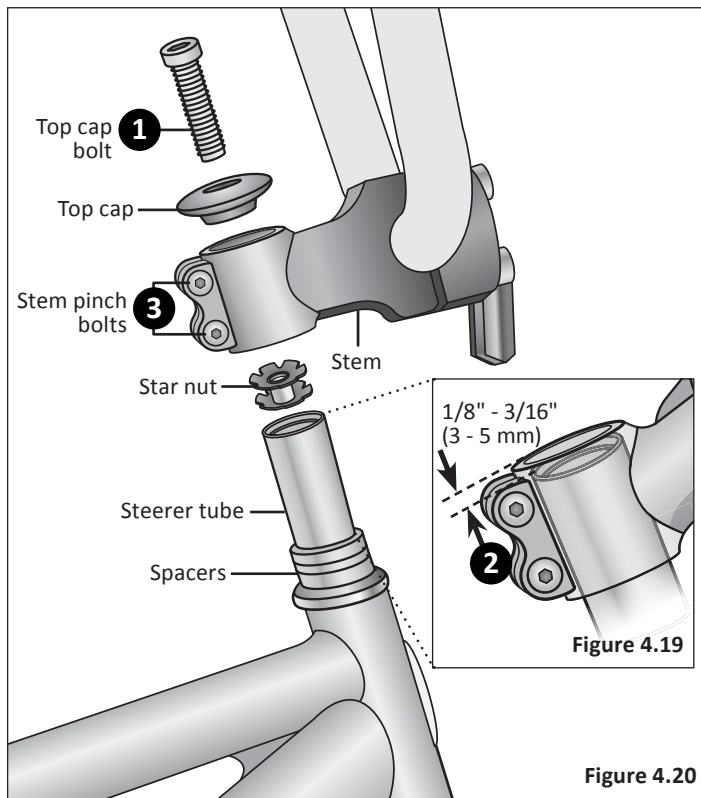


Figure 4.20

ADJUSTING THE BOTTOM BRACKET

Typically the bottom bracket contains four major pieces: locking, adjustable cone, bearings, and washers. The locking has notches. The adjustable cone will have notches for a spanner wrench or bottom bracket tool. The cones can be removed and replaced separately. A set of round ball bearings are found in each adjustable cone. A typical ball bearing is 5/16" in diameter and contains nine balls. This type of bottom bracket may be cleaned, greased and adjusted.

Bearing Adjustment

The basic concept for bearing adjustments is to get the bearings adjusted as loose as possible but without play. Start by purposely beginning with play in the adjustment and then tightening in small increments until play is gone. **Note:** Extended use may cause the bearings, cups (or cones) to become worn and pitted. In this case, bearing adjustment will not be possible. If bottom bracket is correctly adjusted, but grinds when spun, cups and/or cones are worn and should be replaced. **Figure 4.21**

- ❶ Loosen the locknut. Turn adjusting cone counter-clockwise until it hits the ball bearing, then turn back clockwise to loosen 1/4 turn.
- ❷ Secure the locknut.
- ❸ Grab the end of the crank arms and rock it sideways to check for play. If play is present, loosen locknut and turn adjusting cone counter-clockwise slightly to tighten. Re-secure locknut and check again.

- ❹ Repeat process of checking for play and re-tightening cone a slight amount until no play is felt. **Note:** The one-piece crank systems do not use a polished bearing system. There will be some roughness to a correctly adjusted bottom bracket. Adjust as loose as possible but without play in the crank assembly.

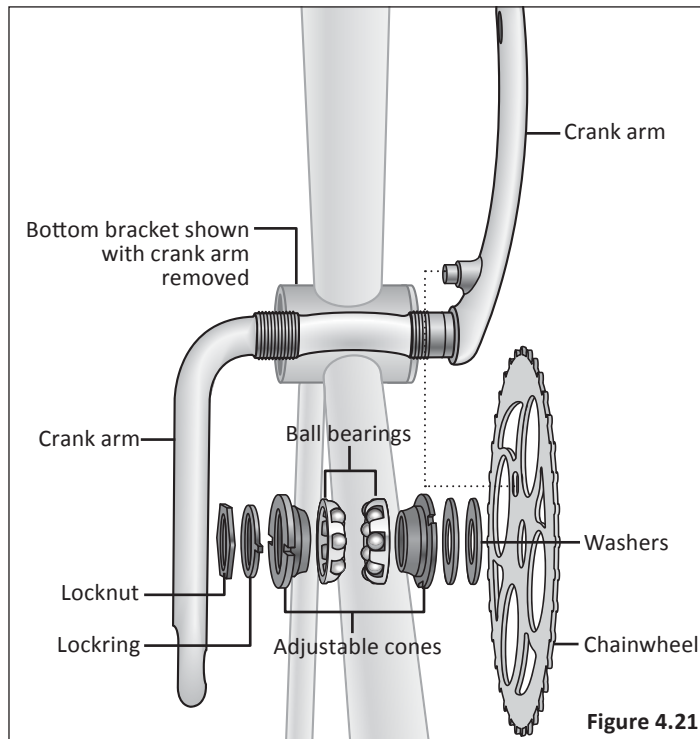


Figure 4.21

5 Use

⚠ WARNING!

Failure to follow all local and state regulations and laws pertaining to bicycle use as well as the safety warnings in this manual may result in serious injury or death. Always follow all local and state regulations and laws pertaining to bicycle use, follow the safety warnings in this manual and use common sense when riding the bicycle. Always conduct a pre-ride check of the bicycle condition before riding.

BRAKE OPERATION

There are two types of braking systems for bicycles; **foot operated** and **hand operated**.

Foot Operated Brakes

Foot operated brakes allow the rider to pedal forward to accelerate the bicycle, and pedal backwards to brake. The harder you push back on the pedals, the more braking force is applied to the rear wheel. **Figure 5.1**

In most cases a foot operated brake is strong enough to **lock up** (stop the wheel from turning) the rear wheel and cause the tire to skid. While this will decelerate the bicycle quickly, it will also cause unnecessary wear on the tire, and terrain, and can cause a loss of steering control.

It is recommended to practice braking so that you have control over how quickly the bicycle comes to a stop. It is also important

to know the environment that you are riding on. For example, a dry paved road is very predictable when stopping. But if you add rain, gravel, snow or anything else, the rider needs to be extra careful, and allow extra stopping distance, and slow down before turning. The rider should also be careful as terrain changes to keep the bicycle at a controllable speed.

Some models may have a combination of foot and hand operated brakes. It is OK to operate them at the same time or independently. However, if the bicycle is equipped with a front wheel hand brake, be careful to use front and rear brake simultaneously, and avoid locking up the front wheel, as this can cause a loss of steering control, and cause a crash. See hand operated brakes on the next page for more detail.

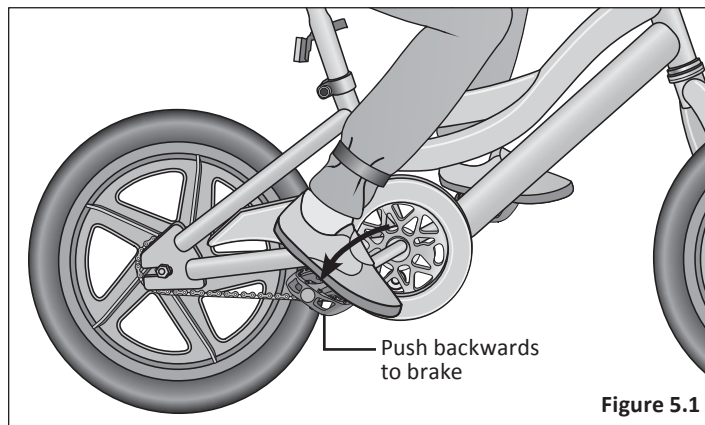


Figure 5.1

Hand Operated Brakes

⚠ WARNING!

If the front brake is applied too quickly or too hard, the front wheel can stop turning resulting in a front pitch over or cause the bicycle to lose steering function leading to a crash.

Hand operated brakes have a separate hand lever to operate front and rear brakes. Front hand brake levers are located on the left side of the handlebar, and rear hand brake levers are located on the right side of the handlebar. **Figure 5.2**

Hand operated brakes may be used alone or on some models in conjunction with foot operated brakes. It is OK to operate one brake at a time or all together, depending on your style, comfort, and riding conditions, however, be careful to pay close attention to front brakes locking up.

To best avoid this:

- Apply the front and rear brakes simultaneously, while shifting your body weight back slightly to compensate for braking force.
- As terrain changes, the rider must practice and learn how the bicycle will respond in a new terrain or weather change. The same bicycle will react differently if it is wet, or if there is gravel on the road etc.

- Always test the brakes and be sure you feel comfortable with the reaction. If the riding conditions are too steep (off road for example) and you are unsure, dismount the bicycle and walk past the questionable terrain before riding again.
- Remember that as you apply the brakes your weight will want to shift forward, and the wheels will want to stop.

Note: See **Section 4: Adjusting the Brakes** for information on brake adjustment.

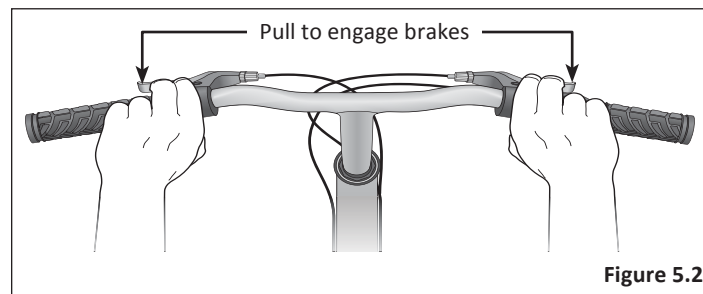
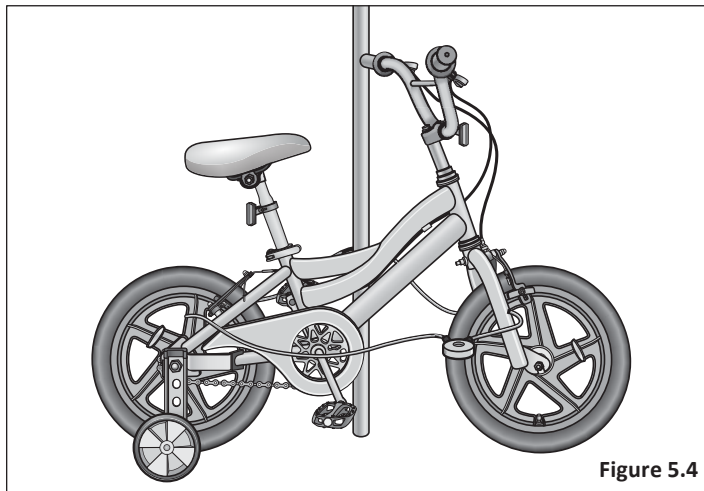
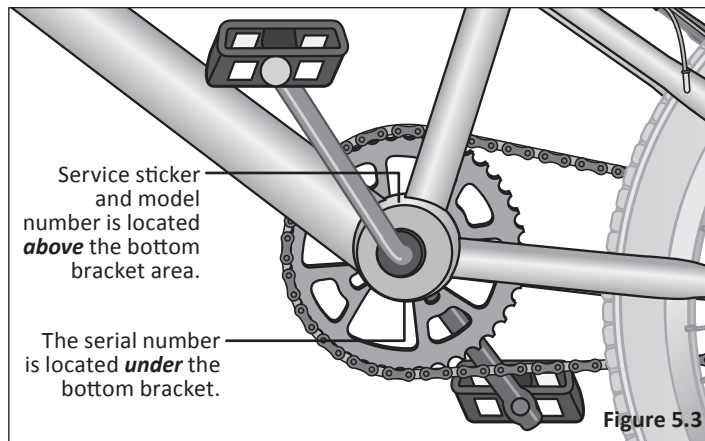


Figure 5.2

SECURITY

You just bought a new bicycle! Don't lose it. It is advisable that the following steps be taken to prepare for and help prevent possible theft:

- Maintain a record of the bicycle's model number. Serial number is underneath the bottom bracket. Model number is above the bottom bracket. **Figure 5.3**
- Register the bicycle with the local police and/or bicycle registry.
- Invest in a high quality bicycle lock that will resist hacksaws and bolt cutters.
- Always lock your bicycle to an immovable object if it is left unattended. Keep in mind that individual parts of a bicycle may be stolen. Most commonly, if you lock just a wheel or just the frame, other parts may be removed from the bicycle. Although it is impossible to lock all the parts, it is suggested to lock the major components if possible. **Figure 5.4**
- Use a lock that is long enough to lock the frame and both wheels if possible. Some models with quick-release front wheels allow the front wheel to be placed beside the frame so a smaller lock can be used to lock all 3 components.
- Be aware that a quick-release seat post can be stolen. It is recommended to remove the seat post and saddle and carry it with you if you believe that this is a risk.



6 Maintenance

WARNING!

- Failure to conduct maintenance on the bicycle may result in malfunction of a critical part and serious injury or death. Proper maintenance is critical to the performance and safe operation of the bicycle.
- The recommended intervals and need for lubrication and maintenance may vary depending on conditions the bicycle is exposed to. Always inspect the bicycle and conduct necessary maintenance before each use of the bicycle.

This section presents important information on maintenance and will assist you in determining the proper course of action to take if you do have a problem with the operation of the bicycle. If you have questions regarding maintenance please call our customer service, toll free, at **1-800-626-2811** or see a qualified bicycle mechanic. **Do not** call the store where the bicycle was purchased.

Correct routine maintenance of your new bike will ensure:

- Smooth running
- Longer lasting components
- Safer riding
- Lower running costs

BASIC MAINTENANCE

The following procedures will help you maintain your bicycle for years of enjoyable riding.

- For painted frames, dust the surface and remove any loose dirt with a dry cloth. To clean, wipe with a damp cloth soaked in a mild detergent mixture. Dry with a cloth and polish with car or furniture wax. Use soap and water to clean plastic parts and rubber tires. Chrome plated bikes should be wiped over with a rust preventative fluid.
- Store your bicycle under shelter. Avoid leaving it in the rain or exposed to corrosive materials.
- Riding on the beach or in coastal areas exposes your bicycle to salt which is very corrosive. Wash your bicycle frequently and wipe or spray all unpainted parts with an anti-rust treatment. Make sure wheel rims are dry so braking performance is not affected. After rain, dry your bicycle and apply anti-rust treatment. If the hub and bottom bracket bearings of your bicycle have been submerged in water, they should be taken out and re-greased. This will prevent accelerated bearing deterioration.
- If paint has become scratched or chipped to the metal, use touch up paint to prevent rust. Clear nail polish can also be used as a preventative measure.
- Regularly clean and lubricate all moving parts, tighten components and make adjustments as required.

LUBRICATION SCHEDULE

Component	Lubricant	Method
Weekly		
Chains	Chain lube or light oil	Brush on or squirt
Brake calipers	Oil	Three drops from oil can
Brake levers	Oil	Two drops from oil can
Freewheel	Oil	Two drops from oil can
Derailleur Systems	Light oil or grease	All pivot points should be lubricated (more often in severely rainy or muddy conditions). Wipe off any excess oil.
Brake cables	Lithium based grease	Remove cable from casing. Grease entire length. Wipe off excess lubrication from other surfaces.
Brake lever and caliper pivot points	Light oil	Two to three drops from oil can
Shifting cables	Thin layer of grease	Clean and grease
Yearly		
Bottom bracket	Lithium based grease	Disassemble
Pedals	Lithium based grease	Disassemble
Wheel bearings	Lithium based grease	Disassemble
Headset	Lithium based grease	Disassemble
Seat stem	Lithium based grease	Disassemble
Pedals: that can be disassembled		See bicycle mechanic for maintenance.

Note: The frequency of maintenance should increase with use in wet or dusty conditions. Do not over lubricate. Remove excess lubricant to prevent dirt build up. **Never** use a degreaser to lubricate your chains (WD-40®).

PARTS MAINTENANCE

Tires

Frequency: Inspect and maintain at least each use

Inspect	Action	Maintenance
Tire Inflation	Check tire pressure.	Inflate tire to the pressure indicated on the tire sidewall. See “Inflating a Tire Tube” for more detail. If the tire is flat see “Fixing a Flat Tire” for more detail.
	Check the bead is properly seated while inflating or refitting the tire.	Reduce air pressure in the tube and re-seat the bead.
	Spin wheel and check rotation / alignment is smooth and even.	Loosen axle nut(s) and adjust until properly seated. If the hub bearings need repair see a bicycle mechanic for repair.
Bead Seating	Check for broken or loose spokes.	See bicycle mechanic for repair.
Tread	Inspect for signs of excessive wear, flat spots or cuts and damage.	Replace tire.
Valves	Check that valve caps are fitted and free of dirt.	Clean dirt from the valve.

Wheels

Frequency: Inspect and maintain at least each use

Inspect	Action	Maintenance
Rims	Inspect for dirt and grease.	Use a clean rag or wash with soapy water, rinse, and air dry.
Wheels	Check the wheels are securely fastened to the bicycle and axle nuts are tight.	Adjust if necessary and tighten axle nuts.
	Spin wheel and check rotation / alignment is true	See bicycle mechanic for repair.
Spokes	Check for broken or loose spokes.	See bicycle mechanic for repair.
Hub Bearings	Lift each wheel and see if there is movement side to side.	See bicycle mechanic for repair.

Drivetrain (pedals, chains, chainwheel, crank set, freewheel)

Frequency: as noted

Inspect	Action	Maintenance
Pedals	Every month, check each pedal is securely set and tighten into the crank arm.	If necessary, re-set and tighten.
	Before each ride, check each front and rear pedal reflectors are clean and in place.	Clean or replace.
Pedal Bearings	Every ride, check the pedal bearings are properly adjusted. Move the pedal up and down, left and right. If looseness or roughness is detected adjustment, lubrication or replacement is required.	See bicycle mechanic for repair.
Chains	Every week, check the chain is clean, properly lubricated, rust-free, and is not stretched, broken, or has stiff links.	Lubricate if necessary. Replace if rusted, stretched, or broken.
Crank Set	Every month, check the crank set (crank arms, chain rings, and bottom bracket axle and bearings) is correctly adjusted and tight.	See bicycle mechanic for repair.

Brakes

Frequency: Inspect and maintain before each use

Inspect	Action	Maintenance
Levers	Check the levers are securely fastened to the handlebar.	Position the levers to fit the rider's grip and screw tight to handlebar.
Pads	Check pad position, gap and pressure.	See Section 4: Adjusting the Brakes
Cables	Check the outer casing for kinks, stretched coils and damage. Check cables for kinks, rust, broken strands or frayed ends. Check the outer casing for kinks, stretched coils and damage.	Replace cable.
	Check the housing is seated properly into each cable stop of the bicycle.	It is recommended that the cables and housing be replaced every riding season.

HUB BEARINGS

Hub bearings require special thin wrenches called **cone wrenches**. If you do not own these tools, do not attempt hub bearing adjustments. Have a qualified bicycle mechanic perform the adjustment if you have any doubts.

- ❶ Check to make sure neither locknut is loose.
- ❷ To adjust, remove wheel from bicycle and loosen the locknut on one side of the hub while holding the bearing cone on the same side with a cone wrench.
- ❸ Rotate the adjusting cone as needed to eliminate free play.
- ❹ Re-tighten the locknut while holding the adjusting cone in position.
- ❺ Re-check that the wheel can turn freely without excessive side play.

INFLATING THE TIRE TUBE

WARNING!

- An unseated tire can rupture unexpectedly and cause serious injury or death. Be sure the tire is properly seated when inflating the tube.
- Over inflation or inflating the tube too quickly may result in the tire blowing off the rim and damaging the bicycle or causing injury to the rider. Always use a hand pump to inflate the tube. **Do not** use a gas station service pump to inflate the tube.

Follow these steps to inflate a tire:

- ❶ Remove the valve cap and add air.
- ❷ Be sure the tire is evenly seated on the rim, both sides.
- ❸ Spin the wheel and check for high and low areas.
- ❹ Complete inflation to the recommended psi found on the sidewall of the tire.
- ❺ Be sure the tire is evenly seated on the rim, both sides. If not, release some air and repeat steps three through six.
- ❻ Check for dirt in the valve cap or stem. Clean dirt from cap or stem.
- ❼ Securely replace the valve cap on the stem.

REPAIRING A FLAT TIRE



WARNING!

An unseated tire can rupture unexpectedly and cause serious injury or death. Be sure the tire is properly seated when inflating the tube.

Follow these steps to fix a flat tire:

- 1 Match tube size and tire size (see tire sidewall for size).
- 2 Remove the wheel from the bicycle. Deflate the tire tube completely.
- 3 Squeeze the tire beads into the center of the rim.
- 4 Opposite the valve, use a bicycle tire lever to pry the tire bead up and out of the rim. Repeat around the wheel until one bead is off the rim.
- 5 Remove tube. Release second tire bead.
- 6 Remove tire.
- 7 Carefully inspect inside of the rim and tire for the cause of the flat.
- 8 Inflate the tube $\frac{1}{4}$ full and place inside tire.
- 9 Insert the valve stem through valve stem hole in rim.
- 10 Start at the valve stem and install the first bead onto the rim. Repeat for the second bead.
- 11 Slowly inflate the tire tube, checking the tire is seated properly and not pinched as the tire tube is inflated.
- 12 Inflate to recommended pressure (see tire sidewall).

TROUBLESHOOTING GUIDE

Problem	Possible Cause	Remedy
Slipping chain	- Excessively worn/chipped chainring or freewheel sprocket teeth - Chain worn/stretched - Stiff link in chain - Non compatible chain/chainring freewheel	- Replace chainring, sprockets and chain - Replace chain - Lubricate or replace link - Seek advice at a bicycle shop
Chain jumping off freewheel sprocket or chainring	- Chainring out of true - Chainring loose - Chainring teeth bent or broken - Rear or front derailleur side-to-side travel out of adjustment - Cross chaining and shifting under load	- Re-true if possible, or replace - Tighten mounting bolts - Repair or replace chainring/set - Adjust derailleur travel
Constant clicking noises when pedaling	- Stiff chain link - Loose pedal axle/bearing - Loose bottom bracket axle/bearings - Bent bottom bracket or pedal axle - Loose crankset	- Lubricate chain/adjust chain link - Adjust bearings/axle nut - Adjust bottom bracket - Replace bottom bracket axle or pedals - Tighten crank bolts
Grinding noise when pedaling	- Pedal bearings too tight - Bottom bracket bearings too tight - Chain fouling derailleurs - Derailleur jockey wheels dirty/binding	- Adjust bearings - Adjust bearings - Adjust chain line - Clean and lubricate jockey wheels
Freewheel does not rotate	Freewheel internal pawl pins are jammed	Lubricate. If problem persists, replace freewheel

Problem	Possible Cause	Remedy
Brakes not working effectively	• Brake pads worn down • Brake pads/rim greasy, wet or dirty • Brake cables are binding/stretched/damaged • Brake levers are binding • Brakes out of adjustment	• Replace brake pads • Clean pads and rim • Clean/adjust/replace cables • Adjust brake levers • Center brakes
When applying the brakes they squeal/squeak	• Brake pads worn down • Brake pads toe-in incorrect • Brake pads/rim dirty or wet • Brake arms loose	• Replace pads • Correct pads toe-in • Clean pads and rim • Tighten mounting bolts
Knocking or shuddering when applying brakes	• Bulge in the rim or rim out of true • Brake mounting bolts loose • Brakes out of adjustment • Fork loose in head tube	• True wheel or take to a bike shop for repair • Tighten bolts • Center brakes and/or adjust brake pads toe-in • Tighten headset
Wobbling wheel	• Axle broken • Wheel out of true • Hub comes loose • Headset binding • Hub bearings collapsed • Quick-release mechanism loose	• Replace axle • True wheel • Adjust hub bearings • Adjust headset • Replace bearings • Adjust quick-release mechanism

6 Maintenance

Problem	Possible Cause	Remedy
Steering not accurate	• Wheels not aligned in frame • Headset loose or binding • Front forks or frame bent	• Align wheels correctly • Adjust/tighten headset • Take bike to a bike shop for possible frame realignment
Frequent punctures	• Inner tube old or faulty • Tire tread/casing worn • Tire unsuited to rim • Tire not checked after previous puncture • Tire pressure too low • Spoke protruding into rim	• Replace inner tube • Replace tire • Replace with correct tire • Remove sharp object embedded in tire • Correct tire pressure • File down spoke

PURCHASE RECORD

Fill in immediately and retain as a record of your purchase.

Please retain your sales receipt for any possible warranty claims.

Your Name: _____

Address: _____

City: _____ State: _____

Date Purchased: _____

Place of Purchase: _____

Model & Brand Information: _____

Wheel Size: _____ Color: _____

Model Number: _____

Date Code: _____

Serial Number: _____

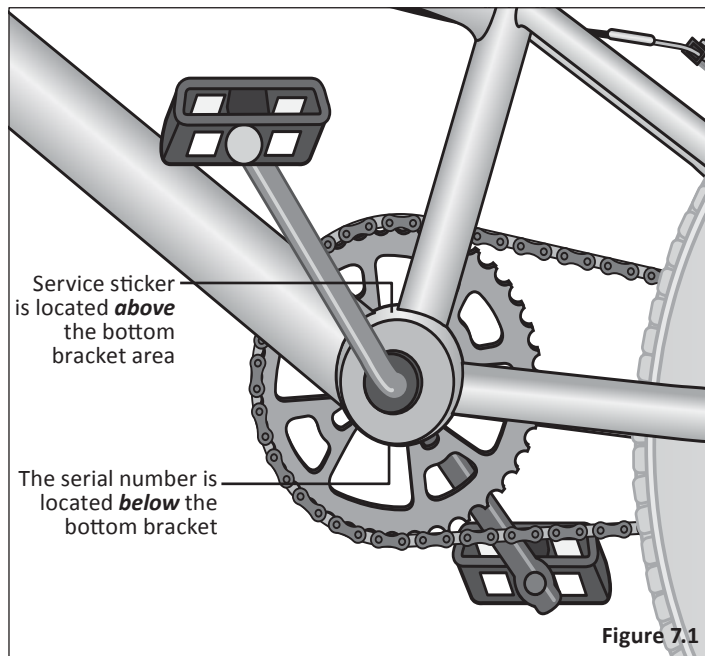


Figure 7.1



Limited Lifetime Warranty

For as long as you own the bike.
Some restrictions apply.
Details at schwinnbikes.com

⚠ WARNING: This product can expose you to chemicals including lead and lead compounds, which is known to the State of California to cause cancer, birth defects and other reproductive harm. For more information go to www.P65Warnings.ca.gov

US 1-800-626-2811
Canada 1-877-758-4741
schwinnbikes.com

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