

CHILDREN'S BIKE ASSEMBLY

FOR SERVICE

CALL TOLL FREE 1.800.451.5368
Monday - Friday 9:00 a.m. to 4:00 p.m. Eastern Standard Time

Congratulations on the purchase of your new bike! With proper assembly and maintenance it will offer you years of enjoyment.

Carefully read and follow this manual (and any others included with this bike) before riding your bike. Please retain this manual for future use.

This manual is provided to assist you and is not intended to be a comprehensive manual covering all aspects of maintaining and repairing your bicycle. The bicycle you have purchased is a complex piece of equipment that must be properly assembled and maintained in order to be ridden safely. If you have any doubts about your ability to properly assemble your bicycle, you must have it assembled by a professional bicycle mechanic.

⚠ **Failure to properly assemble and maintain your bicycle could result in serious injury or death.**

RESPONSIBILITY OF THE OWNER!

Reading and following the information and instructions in this manual are essential to your ability to ride safely.
1. It is the responsibility of the owner or in the case of a younger rider the parents of the rider to be certain all assembly instructions are followed even if the bike has been assembled by the seller or a professional assembly company.
2. Brakes are essential to safety. Be sure they are checked and working properly before each use. Remember that any mechanical system changes condition during use and must be maintained.
3. Rules for bicycle use (bicycle laws)vairy from location to location so be certain the rider knows and understands the rules that apply to bicycle usage in your area. Wearing a helmet and using lights and reflectors are two examples of rules that make sense as safety precautions at all times.
4. Know how to operate the bicycle and all equipment on it before first use and be certain anyone else allowed to use the bike knows as well.
5. There are many different types of bicycles and often these types are designed for different uses. Make sure you know what type unit you have and do not exceed its service limitations. Be sure you check and understand the bicycle classifications set forth below including size of the unit which is proper for the rider to insure good control during use. Do not overload a unit with a rider which is too heavy or too large and do not attempt to carry loads on the bicycle in excess of its capacity. Do not attempt to use street bikes for off road riding.

Mountain Bikes. (Max weight of rider+luggage+bike = 320lbs/145kg). These bikes are intended for use off road on trails where tree-roots and rocks are likely to be encountered. The use of a bike in hazardous conditions such as on changeable and uneven surfaces can put very high unpredictable loads on the bike and it's components. Lack of rider skill and experience of these conditions can further increase these loads leading to the possibility of serious damage to the bike and injury to the rider. Wear a helmet at all times. Check your bike frequently for loose or damaged parts and do required maintenance.

Trekking, Comfort & Cruiser Bikes. (Max weight of rider+luggage+bike = 320lbs/145kg). These bikes are intended for use on public roads, paths or tracks that are in good condition. These bikes are NOT intended for off-road use. Wear a helmet at all times. Check your bike regularly and do required maintenance.

Racing Bikes. (Max weight of rider+luggage+bike = 298lbs/135kg). These bikes are intended for high speed amatuer use on public roads, paths or tracks that are in good condition. These bikes are not to be considered specialized racing bikes for use in sanctioned competitive events. These bikes are NOT intended for off-road use. Wear a helmet at all times. Check your bike regularly and do required maintenance.

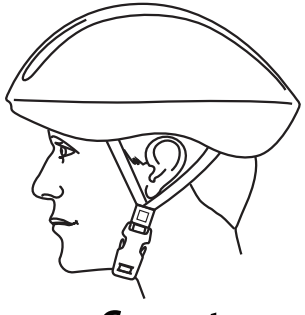
Children's Bikes. (Max weight of rider+luggage+bike = 231lbs/105kg). These bikes are intended for use by children in safe areas that are in good condition and free of traffic. Children must always ride within their abilities and should wear a safety helmet at all times. A parent should check the bike regularly and do required maintenance.

OWNER'S RESPONSIBILITY continued

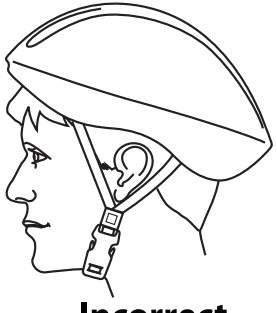
NOTE. Carefully read this manual and follow instructions. Your bicycle may come with additional instruction sheets that cover features unique to your bike. Please ensure that you read and become familiar with their contents. Always wear a CPSC approved helmet when riding your bike. Familiarize yourself with local and state traffic laws.

Any major service or adjustments on your bike should be carried out by a professional bike mechanic. If you wish to make adjustments yourself, this manual contains important tips on how to do it. **CAUTION:** Any adjustments you make are entirely at your own risk. Do **NOT** use your bike for freestyle and stunt riding, jumping or competitive events. Even if you are riding a mountain bike, you should know that off-road use or any similar activities can be dangerous and you are warned that you assume the risk for personal injury, damages or losses incurred from such use. Do not ride your bike when any part is damaged. If you are unsure how to carry out repairs or maintenance on your bike it is vital that you consult a local bike mechanic for professional support.

WARNING: As with all mechanical components, the bicycle is subjected to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the design life of a component has been exceeded, it may suddenly fail, possibly causing injuries to the rider. Any form of crack, scratches or change of coloring in highly stressed areas indicate that the life of the component has been reached and should be replaced.



Correct
Forehead covered



Incorrect
Forehead exposed

ALWAYS WEAR A HELMET - IT COULD SAVE YOUR LIFE!

A properly fitting, CPSC approved, bicycle helmet should 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:

- be comfortable
- be lightweight
- have good ventilation
- fit correctly
- cover the forehead

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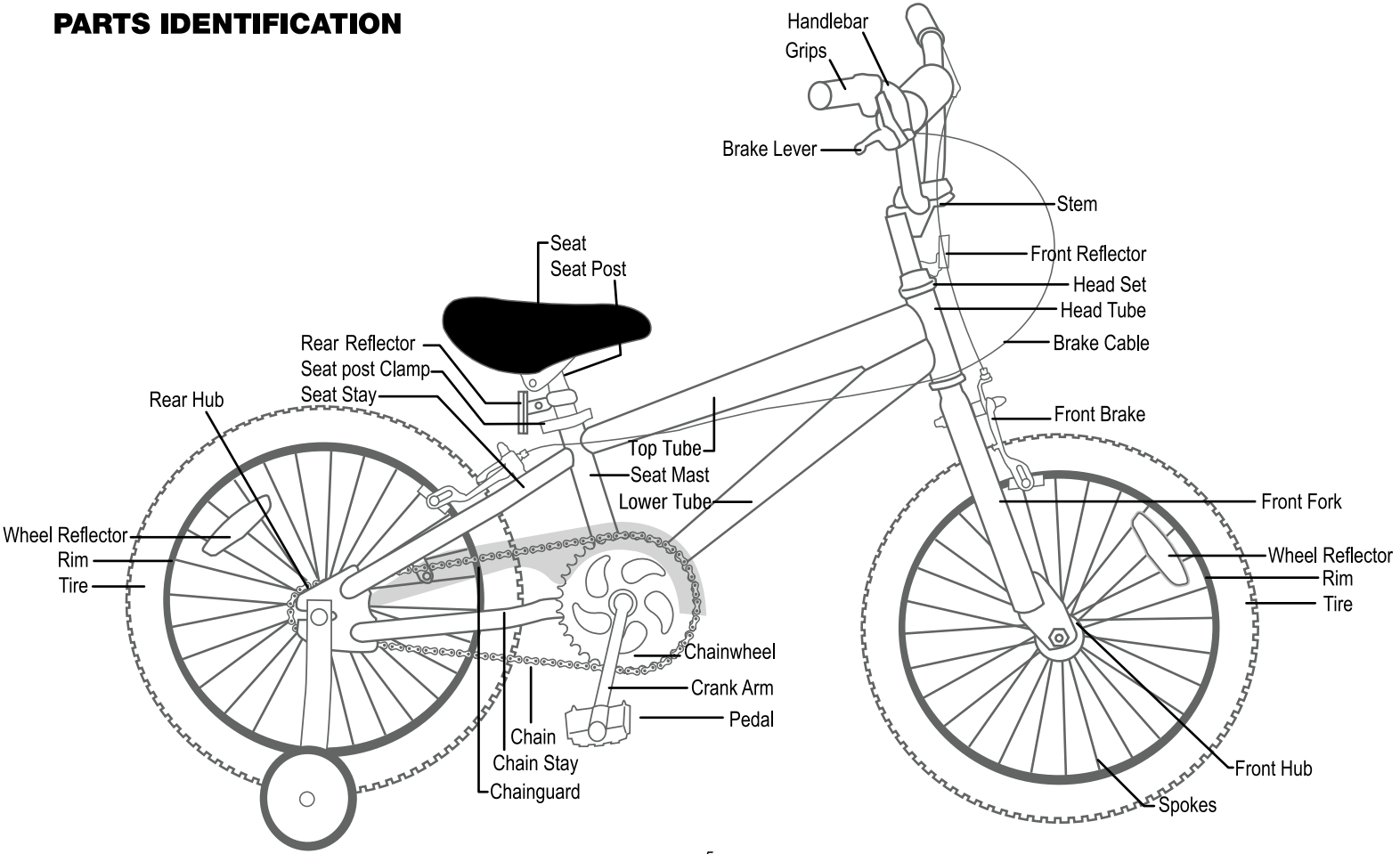
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⚠ WARNING / CAUTION

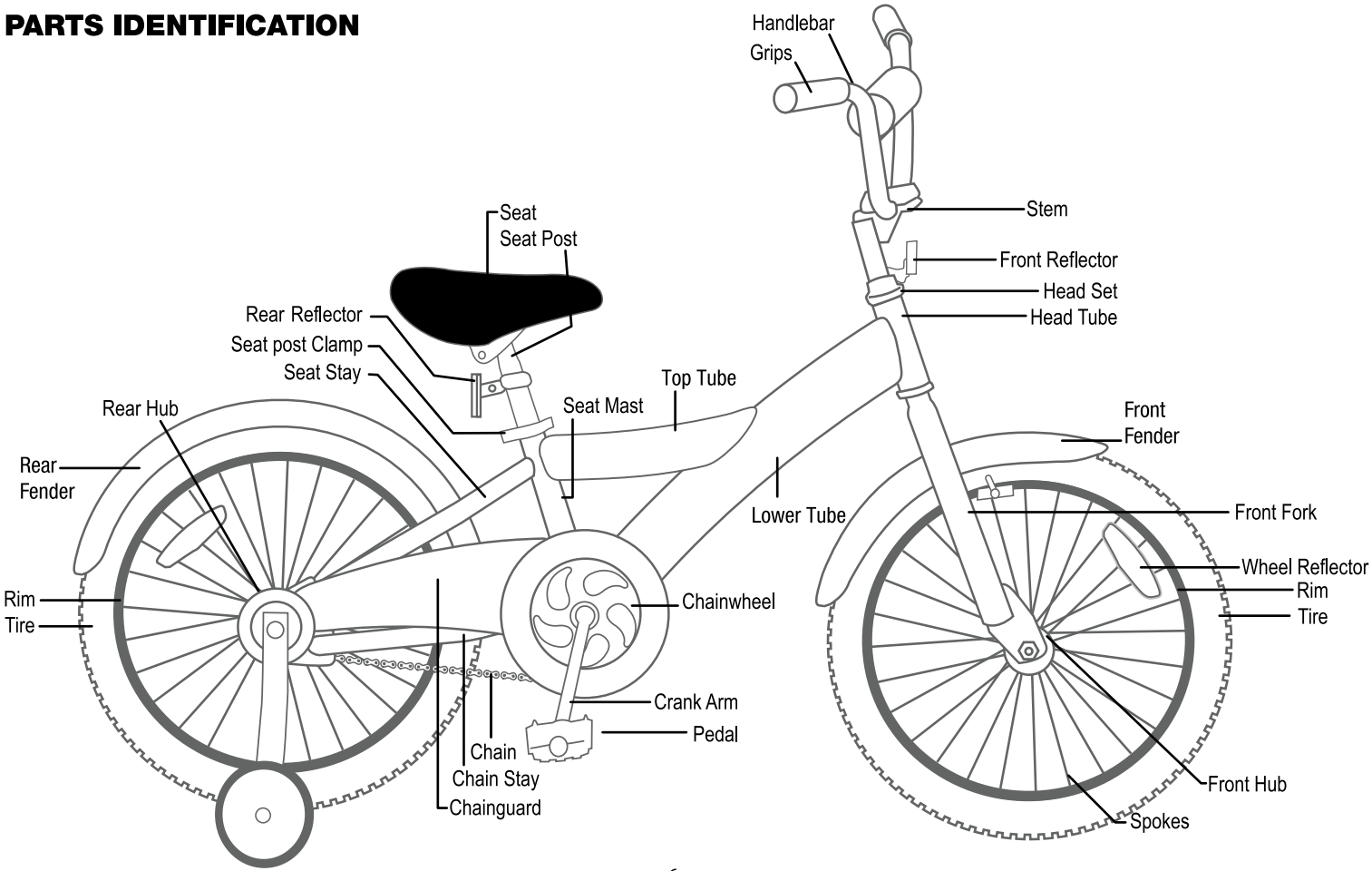
Throughout this manual you will see the words **WARNING** and **CAUTION**. Please pay special attention to this information, as it could affect your safety as you assemble and ride your bike.

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

PARTS IDENTIFICATION



PARTS IDENTIFICATION



RULES OF THE ROAD

In the interest of safe cycling, make sure you read and understand the owner's manual.
Throughout this manual you will find **WARNING, CAUTIONS**, and **NOTES** or **NOTICES.**
WARNINGS: Pay special attention to these since failure to do so could result in injury to the rider or others.
CAUTIONS: If not followed these could result in mechanical failure or damage.
NOTES or **NOTICES:** These specify something that is of special interest.

Before you ride this bicycle, read this RULES OF THE ROAD section and check that all parts are installed as per this instruction manual. If you understand how the bicycle operates, you will get the best performance. When you read this instruction book, compare the illustrations to the bicycle. Learn the location of all the parts and how they work. Keep this book for future reference. Before you ride the bicycle, check the brake and other parts of the bike. Make sure all parts are assembled correctly and working properly. Take your first ride in a large, open, level area. If you have a problem, check the assembly instructions and follow the maintenance procedures in this book. If you do not feel comfortable with your skills in assembling or adjusting the bike, please take your bike to a professional bike repairman.

1. **WARNING ON AND OFF ROAD CONDITIONS:** The condition of the riding surface is very important. If the surface is wet, or has sand, small rocks or other loose debris on the surface, carefully decrease the speed of the bicycle and ride with extra caution. It will also take a longer time and more distance to stop. Apply the brake earlier than normal and with less force to help keep the bicycle from sliding.

2. NOTICE: some state and local laws may require that your bike be equipped with a warning device, such as a horn or bell and a light. Do NOT ride at night. Vision is quite limited at dawn and dusk.

3. Always wear shoes when riding a bicycle and avoid loose fitting clothes. Wear a cuff band or trouser clip to keep pants from getting caught in the chainwheel. Long sleeves, long pants, gloves, eye protection and elbow and knee pads are also recommended.

4. **CAUTION: WET WEATHER WARNING:** Check your brakes frequently. The ability to stop your bicycle is critical. Roads are slippery in wet weather so avoid sharp turns and allow more distance for stopping. Brakes may become less efficient when wet. Leaves, loose gravel and other debris on the road can also effect stopping distance.

5. Don't wear anything that restricts your hearing.

6. When riding, **ALWAYS WEAR A CPSC APPROVED BIKE HELMET.**

RULES OF THE ROAD continued

7. Obey all traffic regulations. Most traffic regulations apply to bike riders as well as automobile operators. Observe all state and local traffic regulations, signs and signals. Check with your local police station on bicycle licensing and inspection, and where it is legal to ride your bike.

8. Keep to the RIGHT SIDE. Follow the traffic flow in a straight line close to the curb. Watch out for opening car doors and cars moving in and out of traffic. Use caution at intersections and keep both hands on the handlebars.

9. Never carry passengers. This is dangerous and it makes the bicycle harder to control. Never carry packages that can hinder your vision or control of the bike.

10. When riding in pairs or in larger groups, form a single line along the right side of the road. Set up a sensible distance between riders. Don't follow too closely.

11. Always be alert. Animals or people may dart in front of you. Give pedestrians the right-of-way. Don't ride too close to pedestrians, and don't park your bicycle where it can get in the way of foot/vehicle traffic.

12. Be careful at all intersections. Slow down and look both ways before crossing.

13. Use hand signals. Always let other drivers and pedestrians know what you are going to do. Signal 100 ft. before turning unless your hand is needed to control the bike.

14. **WARNING: NIGHT TIME OPERATION:** We do NOT recommend riding your bike at night. If you have an emergency that requires you to ride at night, you must have proper lights and reflectors. NEVER ride at night without a headlight, taillight, a white front reflector, a red rear reflector, pedal reflectors and white wheel reflectors.

15. Cover your stem, handlebar, and top tube with safety pads for additional protection.

16. Never hitch rides. Never hold onto moving vehicles while riding. Never stunt ride or jump on your bike.

17. **ON AND OFF ROAD OPERATION:** Avoid the following road hazards: drain grates, pot holes, ruts, soft road edges, gravel, leaves (especially when they are wet), uneven pavement, railroad crossings, manhole covers, curbs, speed bumps, puddles, and debris call all have effect on your riding and result in loss of control.

18. Do not ride your bicycle if the chain cover is not attached.

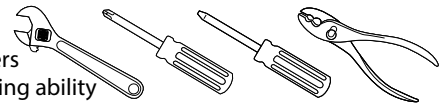
BEFORE RIDING:

Your new bicycle was assembled and tuned in the factory and then partially disassembled for shipping. 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 bicycle, please consult a professional bicycle mechanic before riding.

TO AVOID INJU RY, THIS PRODUCT MUST BE PROPER LY ASSEMBLED BEFORE USE. WE STRONG LY RECOMMEND TH AT YOU REVIEW THE COMPLETE ASSEMB LY GUIDE AND PERFORM CHECKS SPECIFIED IN THE OWNER'S MANUAL BEFORE RIDING.

* 5/6mm hex wrench
* Torque wrench
* Air pump & tire guage to inflate tires
* Bicycle lubricant or grease

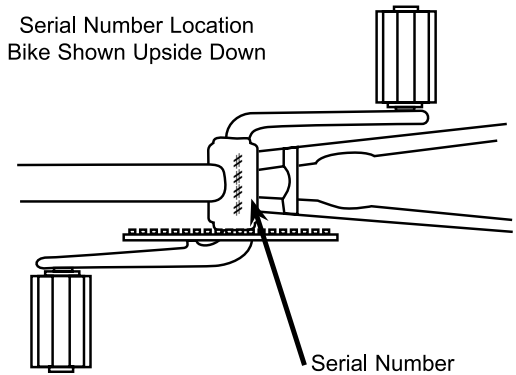
* 6" adjustable wrench
* Phillips & standard screwdrivers
* A pair of pliers with cable cutting ability



RECORD SERIAL NUMBER

Each bicycle has a serial number stamped into the bottom of the frame (See Illustration). Record this number HERE to keep for future reference. This number can be helpful to reclaim your bike if ever lost or stolen. THIS INFORMATION IS ONLY AVAILABLE ON THE BIKE ITSELF. There is no record of your serial number at the store purchased or with our company. It is your responsibility to record this information.

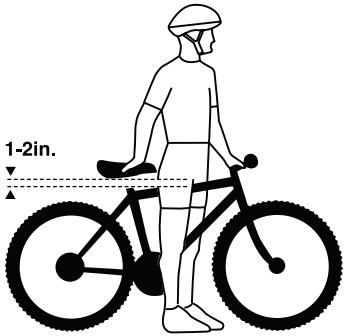
Serial Number:_____



CORRECT FRAME SIZE

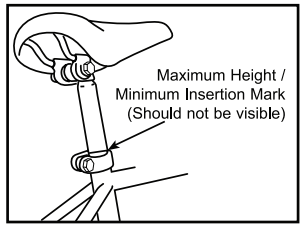
When selecting a new bicycle, the correct choice of frame size is a very important safety consideration. Most full sized bicycles come in a range of frame sizes. These sizes usually refer to the distance between the center of the bottom bracket and the top of the frame seat tube.

The ideal clearance will vary between types of bicycles and rider preference. This makes straddling the frame when off the saddle easier and safer in situations such as sudden traffic stops. Women can use a men's bicycle to determine the correct size women's model.



THERE SHOULD BE A CLEARANCE OF NO LESS THAN 1-2 INCHES BETWEEN THE GROIN AREA OF THE INTENDED RIDER AND THE TOP TUBE OF THE BICYCLE, WHILE THE RIDER STRADDLES THE BICYCLE WITH BOTH FEET FLAT ON THE GROUND.

THE SEATPOST "MINIMUM INSERTION" / "MAXIMUM HEIGHT" MARK SHOULD NOT BE VISIBLE WHEN THE SEAT POST IS INSERTED INTO THE SEAT MAST OF THE BIKE. DO NOT RAISE THE SEAT POST BEYOND THIS MARK. THE SEAT POST MAY BREAK CAUSING YOU TO LOSE CONTROL AND FALL. ALWAYS CHECK TO MAKE SURE SEAT POST ADJUSTING MECHANISM IS TIGHTENED SECURELY BEFORE RIDING.



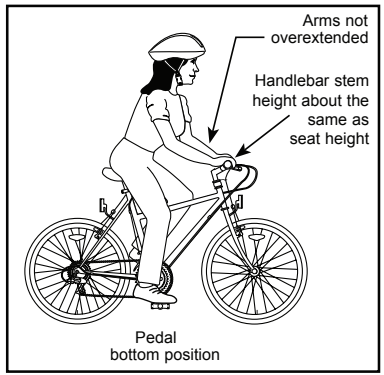
RIDING POSITION

SADDLE HEIGHT

In order to obtain the most comfortable riding position and offer the best possible pedaling efficiency, the seat height should be set correctly in relation to the rider's leg length. The correct saddle height should not allow leg strain from over-extension, and the hips should not rock from side to side when pedaling. While sitting on the bicycle with one pedal at it's lowest point, place the ball of your foot on the pedal. The correct saddle height will allow the knee to be slightly bent in this position.

REACH

To obtain maximum comfort, the rider should not over extend his or her reach when riding. There should be a slight bend in the rider's elbows. Refer to the section regarding Seat and Seat posts to learn how to adjust the seat post height.



ASSEMBLING YOUR BIKE

PREPARATION

It is important that you read this owner's manual before you start to assemble your bicycle. WE RECOMMEND THAT YOU CONSULT A PROFESSIONAL BICYCLE MECHANIC IF YOU HAVE DOUBTS OR CONCERNS AS TO YOUR ABILITY TO PROPERLY ASSEMBLE, REPAIR, OR MANITAIN YOUR BICYCLE. Remove all parts from the shipping carton. Check to make sure no parts are loose on the bottom of the carton. Carefully remove the front wheel which is attached to the side of the bicycle for shipping. Carefully remove all other packing material from the bicycle. This includes zip ties, axle caps and material protecting the frame.

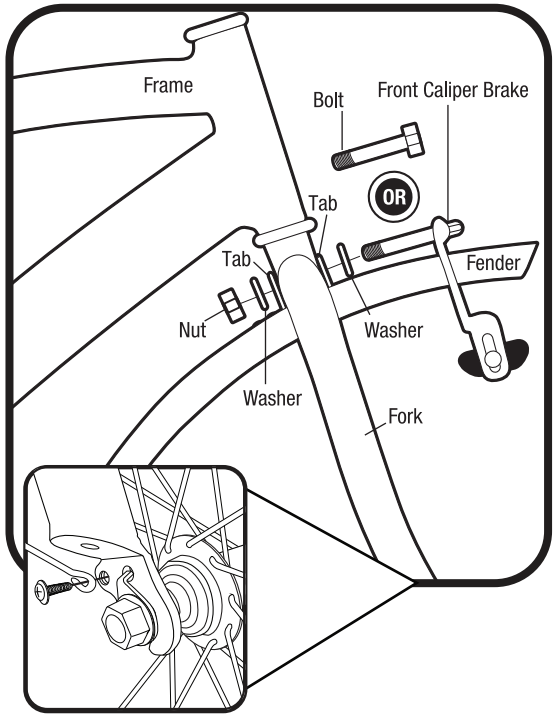
FRONT FENDER

IF your bike has fenders, it may be necessary to assemble the front fender to your bike. The front fender is mounted at the fork crown. There are two methods to mount your front fender. the first is the caliper brake mounting system, and the second is the 10mm nut and bolt system. Identify the mounting system used on your bike and follow the instructions below.

1. If your bike has a front caliper brake:
Remove the hex nut from the caliper brake bolt on the rear of the fork, and slide the brake assembly onto the fork making sure the attachment holes and the fender bracket holes line up. Reattach the caliper brake making sure that the brake arms are on each side of the fender. Tighten the calipe brake bolt securely.

2. If your bike does NOT have a front caliper brake:
Place the fender assembly onto the fork making sure the attachment holes and the fender bracket holes line up. Attach the fender with the 10mm hex bolt and nut included. Tighten the bolt securely.

If your fenders have stabilizer arms, attach the bottom of the stabilizer arm to the bottom of the fork, using the washer and screw provided.



FRONT WHEEL

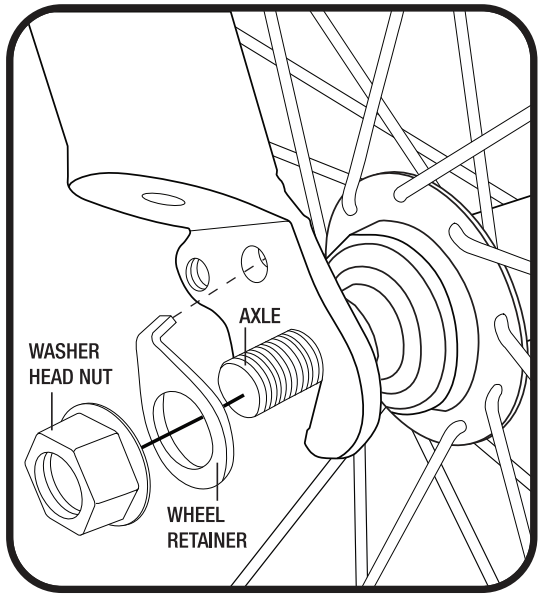
1. Remove the nuts, washers and wheel retainers from the front wheel axle, if necessary. If these are not on the wheel axle, they will be included int he hardware bag.

2. Slide the wheel onto the open ends of the fork. Slip an axle retainer onto each end of the axle, and hook the retainers into the holes in the fork end. Loosely install the washer onto each end of the axle (serrated end toward the retainer), then intall the hex nut. (Note: there may be a washer head nut in place of the washer and hex nut).

3. Center the wheel in the fork and tighten the axle nuts securely, alternating from one side to the other.

4. Spin the wheel to make sure that it is centered in the fork and does not wobble. If the wheel is not centered, loosen the nuts and try again.

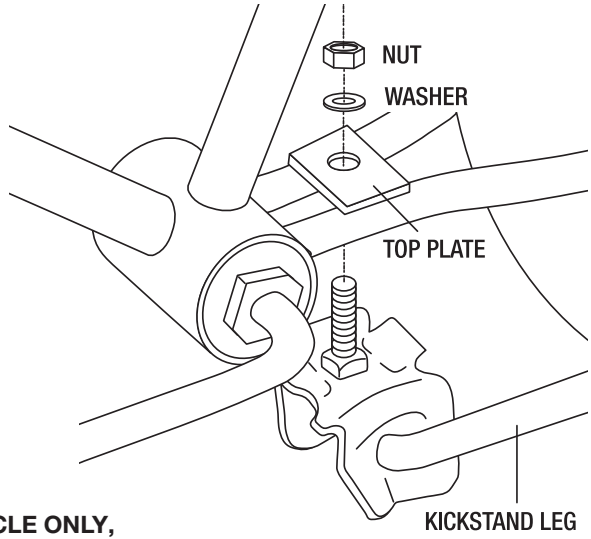
Torque requirement: 16-20 ft lbs.



KICKSTAND

If your bike is equipped with a kickstand, please follow the instructions below.

1. Place the bicycle in an upright position.
2. Remove the top plate from the kickstand.
3. From the left side of the bicycle (opposite side from chainring), place the kickstand in position beneath the two rear fork legs.
4. Place the top plate, flange down, onto the mounting bolt.
5. Replace the washer and nut onto the mounting bolt. Hold the kickstand arm in an up position aligned with the frame stay, then securely tighten the mounting bolt.
6. Leave the leg of the kickstand down so it will support the bicycle during the rest of the assembly process.



WARNING! THE KICKSTAND IS DESIGNED TO SUPPORT THE BICYCLE ONLY, NOT THE BICYCLE AND RIDER.

TRAINING WHEELS

Trainer wheels are pre-assembled to the trainer arms for your convenience.

NOTE: DO NOT REMOVE THE THIN AXLE NUT.

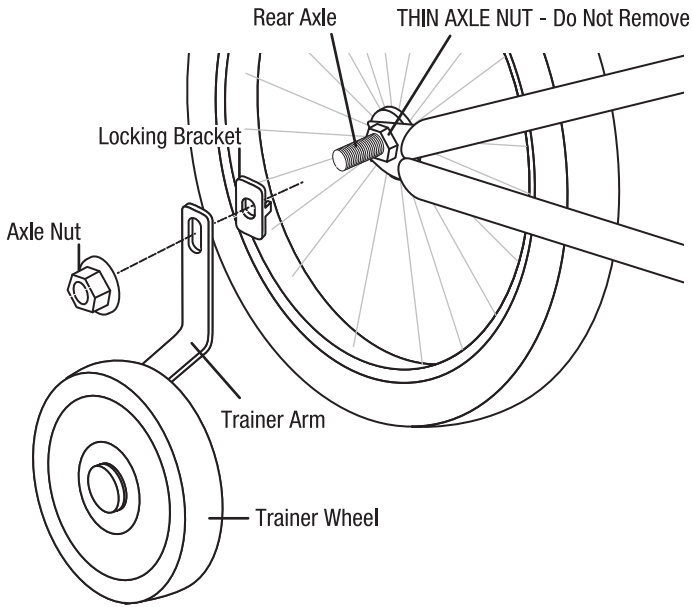
1. Install locking bracket, as illustrated, with the prong towards the rear of the bike. Be sure prong on the locking bracket fits into the axle slot on the frame.

2. Install trainer arms, with wheels attached.

3. Thread on outside axle nut and tighten. As you are tightening the axle nut, adjust the trainer's height by moving the trainer up or down, until you have the desired height. The trainer wheel should be approximately 1/4" off the ground.

CAUTION! Be sure all nuts are adjusted properly and tightened securely before the child rides the bicycle.

Torque Requirement For Rear Axle Nut 16-20 ft. lbs.



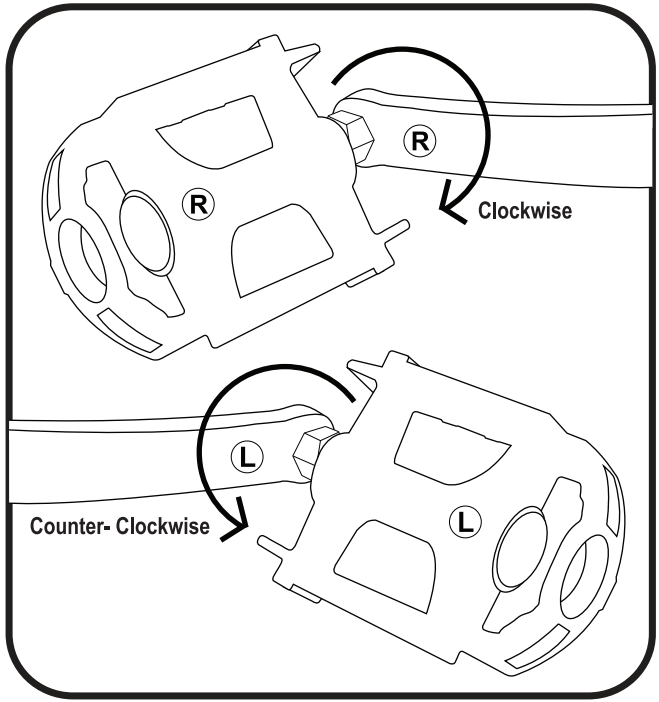
PEDAL INSTALLATION

1. Apply a small amount of grease to the threads of each pedal. look for the letter “L” or “R” on the side or end of each pedal spindle (picture). Turning the spindle clockwise by hand (Picture), thread the pedal marked “R” into the crank arm on the right (drive) side of the bicycle. Make sure that you are not “cross-threading”. which can strip the threads in the crank arm. If the threads do not turn easily, don’t force them. Back the spindle out and start over. Once the pedal is threaded into the crank arm, tighten the spindle securely to the crank arm with a 15mm open end or an adjustable wrench.

2. Turning the spindle counterclockwise by hand, thread the pedal marked “L” into the crank arm on the left side of the bike. Make sure that you are not “cross-threading”. which can strip the threads in the crank arm. If the threads do not turn easily, don’t force them. Back the spindle out and start over. Once the pedal is threaded into the crank arm, tighten the spindle securely to the crank arm with a 15mm open end or an adjustable wrench.

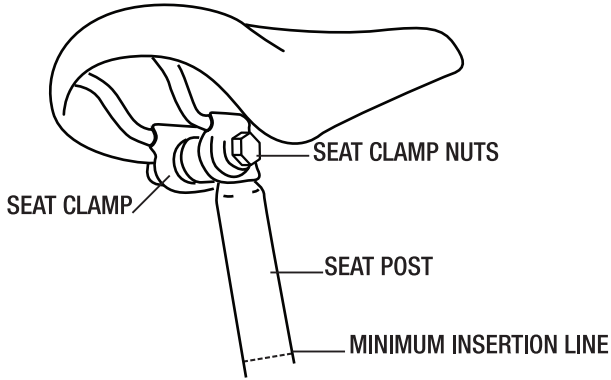
⚠ WARNING! IMPROPERLY INSTALLED AND TIGHTENED PEDALS CAN WORK LOOSE, DAMAGING THE BICYCLE AND CAUSING POSSIBLE SERIOUS INJURY OR DEATH TO THE RIDER.

Torque Requirement 15-18 ft. lbs.



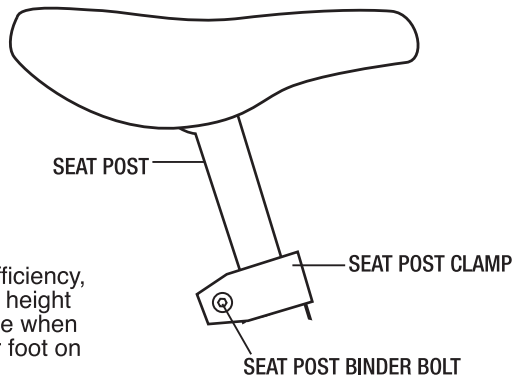
SEAT & SEAT POST ASSEMBLY

1. Loosen the seat clamp nuts.
2. Insert the top portion of the seat post into the seat clamp. Be sure the seat post is completely inserted into the seat clamp and butted tightly against the underside of the seat.
3. Tighten seat clamp nuts securely.
4. Insert the seat post (with seat attched) into the bike frame. Be sure that the seat post is inserted past the minimum insertion line.
5. Tighten the seat post binder bolt securely at the desired height.
6. Adjust the angle of the seat so that the top of the seat is parallel to the ground or comfortable to the rider.
7. Retighten the seat clamp nuts securely. Check for tightness by attempting to twist the seat. If the seat is loose, be sure to tighten the clamp nuts and binder bolt securely. Torque requirement 15-20 ft. lbs.



⚠ THE SEATPOST "MINIMUM INSERTION" / "MAXIMUM HEIGHT" MARK SHOULD NOT BE VISIBLE WHEN THE SEAT POST IS INSERTED INTO THE SEAT MAST OF THE BIKE. DO NOT RAISE THE SEAT POST BEYOND THIS MARK. THE SEAT POST MAY BREAK CAUSING YOU TO LOSE CONTROL AND FALL.

ALWAYS CHECK TO MAKE SURE SEAT POST ADJUSTING MECHANISM IS TIGHTENED SECURELY BEFORE RIDING. RIDING WITH AN IMPROPERLY TIGHTENED SEAT POST CAN ALLOW THE SEAT TO TURN OR MOVE AND CAUSE THE RIDER TO LOSE CONTROL



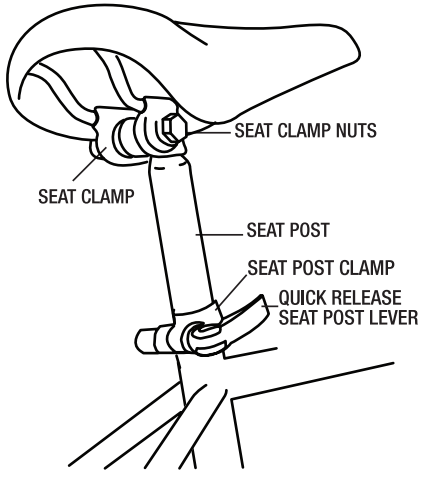
SADDLE HEIGHT

In order to obtain the most comfortable riding position and offer the best possible pedaling efficiency, the seat height should be set correctly in relation to the rider's leg length. The correct saddle height should not allow leg strain from over-extension, and the hips should not rock from side to side when pedaling. While sitting on the bicycle with one pedal at it's lowest point, place the ball of your foot on the pedal. The correct saddle height will allow the knee to be slightly bent in this position.

To obtain maximum comfort, the rider should not over extend his or her reach when riding. There should be a slight bend in the rider's elbows.

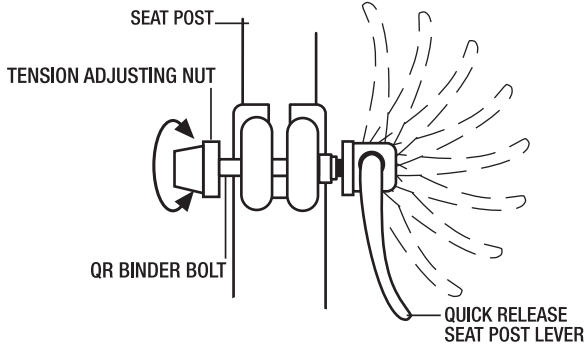
SEAT & QUICK RELEASE SEAT POST ASSEMBLY

1. Loosen the seat clamp nuts.
2. Insert the top portion of the seat post into the seat clamp. Be sure the seat post is completely inserted into the seat clamp and butted tightly against the underside of the seat.
3. Tighten seat clamp nuts securely.
4. Insert the seat post (with seat attched) into the bike frame. Be surethat the seat post is inserted past the Minimum Insertion Line. Review SADDLE HEIGHT guidelines on page 19.
5. Tighten the tension adjusting nut by hand and move the quick release lever to the closed position. NOTE: Turning the tension adjusting nut clockwise while keeping the lever from rotating reduces clamping force. Less than half a turn of the tension adjusting nut can make the difference between safe clamping force and unsafe clamping force. You should feel considerable resistance while moving the lever. If not, re-open and retighten the lever, then move it to the closed position so it is in line with the top tube of the frame (as shown in the top illustration).
6. Adjust the angle of the seat so that the top of the seat is parallel to the ground or comfortable to the rider.
7. Retighten the seat clamp nuts securely. Check for tightness by attempting to twist the seat. If the seat is loose, be sure to tighten the clamp nuts and binder bolt securely. Torque requirement 15-20 ft. lbs.



⚠ THE SEATPOST "MINIMUM INSERTION" / "MAXIMUM HEIGHT" MARK SHOULD NOT BE VISIBLE WHEN THE SEAT POST IS INSERTED INTO THE SEAT MAST OF THE BIKE. DO NOT RAISE THE SEAT POST BEYOND THIS MARK. THE SEAT POST MAY BREAK CAUSING YOU TO LOSE CONTROL AND FALL.

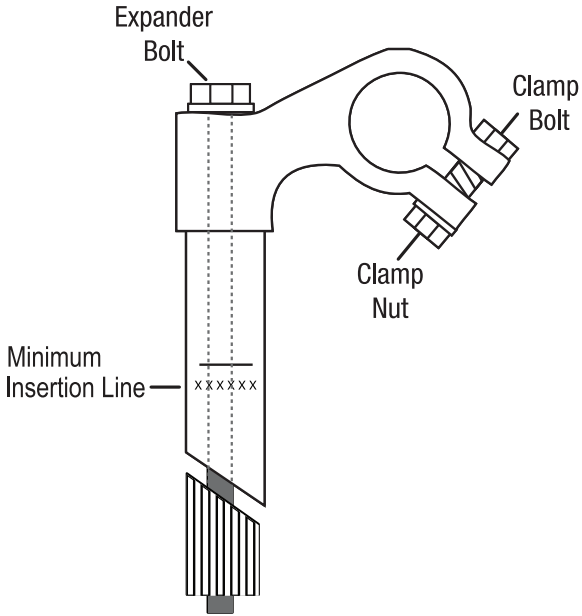
ALWAYS CHECK TO MAKE SURE SEAT POST ADJUSTING MECHANISM IS TIGHTENED SECURELY BEFORE RIDING. RIDING WITH AN IMPROPERLY TIGHTENED SEAT POST CAN ALLOW THE SEAT TO TURN OR MOVE AND CAUSE THE RIDER TO LOSE CONTROL AND FALL.



HANDLEBAR STEM: Y-STEM

NOTE: the handlebar stem has been pre-assembled to the handlebar at the factory.

1. Remove the packing material and rotate the handlebar into an upright position. Slightly loosen the clamp bolts to allow the handlebar to rotate easily. After you have acheived a comfortable handlebar position, proceed to tighten the clamp bolt to the required torque.
2. Insert the handlebar stem into the fork tube (head of the bike) with the clamp portion of the stem towards the front of the bike. The stem must be inserted far enough to hide the minimum insertion line marked on the stem. If necessary, loosen the expander bolt to allow the stem to fit the fork tube.
3. Place a drop of oil under the head of the expander bolt. Tighten the expander bolt just enough to hold the stem in place.
4. Raise or lower the handlebar stem until you have reached the desired height for your child and then position the handlebar so it is perpendicular (90 degrees) to the front wheel. Next, tighten the expander bolt to the required torque. Be sure to have inserted the stem into the fork tube at least 2 1/2" (65mm), making certain the minimum insertion line is not visible.



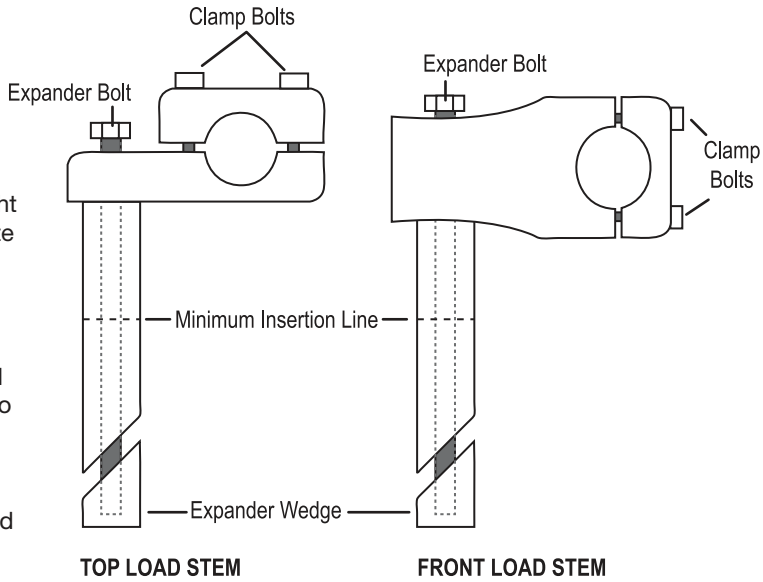
⚠ WARNING! ASSEMBLER IS CAUTIONED AGAINST THE DANGER OF DAMAGING THE HANDLEBAR STEM ASSEMBLY AND POSSIBLE INJURY TO THE RIDER RESULTING FROM OVER TIGHTENING THE EXPANDER BOLT AND EXPANDER WEDGE.

EXPANDER BOLT TORQUE REQUIREMENT 10-15 ft-lbs (13-20 N-m)
CLAMP BOLT TORQUE REQUIREMENT 8-11 ft-lbs (11-15 N-m)

HANDLEBAR STEM: 4 - BOLT

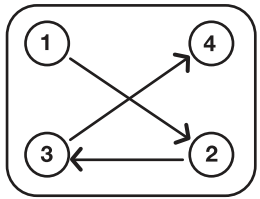
NOTE: the handlebar stem has been pre-assembled to the handlebar at the factory.

1. Remove the packing material and rotate the handlebar into an upright position. Slightly loosen the clamp bolts to allow the handlebar to rotate easily. After you have acheived a comfortable handlebar position, proceed to tighten the clamp bolts to the required torque.
2. Insert the handlebar stem into the fork tube (head of the bike) with the clamp portion of the stem towards the front of the bike. The stem must be inserted far enough to hide the minimum insertion line marked on the stem. If necessary, loosen the expander bolt to allow the stem to fit the fork tube.
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⚠ WARNING! ASSEMBLER IS CAUTIONED AGAINST THE DANGER OF DAMAGING THE HANDLEBAR STEM ASSEMBLY AND POSSIBLE INJURY TO THE RIDER RESULTING FROM OVER TIGHTENING THE EXPANDER BOLT AND EXPANDER WEDGE.

EXPANDER BOLT TORQUE REQUIREMENT 10-15 ft-lbs (13-20 N-m)
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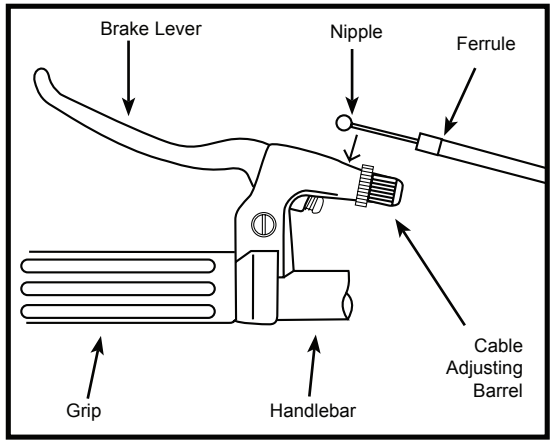
Cross Tighten Clamp Bolts For Even Clamping

HAND BRAKES

Determine which type of brake your bike is equipped with and refer to the appropriate assembly instructions. If your bike comes equipped with a foot brake ONLY, no brake adjustment is required. For more information on brake adjustment and maintenance, refer to the maintenance section of this manual.

NOTE: A greater force is required to activate the rear brake due to longer cable length. It is advisable to mount the rear brake on the side of the stronger hand. It is important to become familiar with the use of hand brakes. When properly adjusted, hand brakes are an efficient braking system. Keep the rim and brake shoes clean and free from wax, lubricants and dirt at all times. Keep brakes properly adjusted and in good working condition at all times.

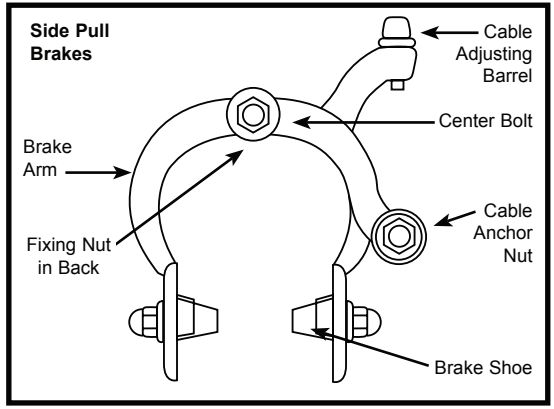
Open the brake lever and place the nipple end of the short brake cable into the lever, then close the lever. Secure the ferrule against the lever using the cable adjusting barrel.



SIDE PULL CALIPER BRAKE

Loosen the cable anchor nut and thread the brake cable through it. Tighten the nut by hand until it holds the cable in place. Squeeze the brake arms together against the rim of the wheel. Loosen the nuts on the brake shoes and turn until they match the angle of the rim. Tighten the nuts securely. Pull down on the end of the brake cable with pliers, hold taut and securely tighten the cable anchor nut. Spin the wheel, the brake shoes should not contact the rim at any point and should be an equal distance from the rim on both sides. Make sure all nuts and bolts are securely tightened. Test the brake levers 20-25 times to take care of any initial cable stretch. Be sure to tightly secure the brake fixing nut behind the fork.

WARNING! When assembling or adjusting the brakes, make sure the cable anchor is tight. Failure to securely tighten the nut could result in brake failure and personal injury.



COASTER BRAKE

It is not necessary to assemble any part of your coaster brake, but it is important to understand how your coaster brake works.

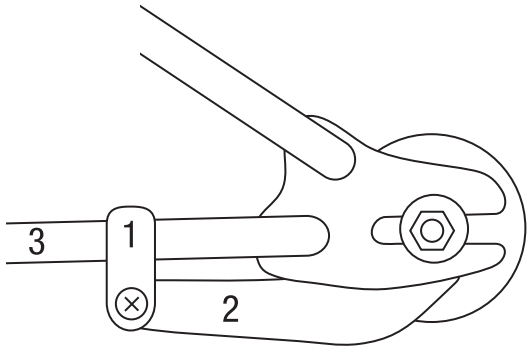
Operation

Push the pedals backward to move the chain backward. The chain activates the coaster brake mechanism that is inside the rear wheel hub. As you push the pedals backward with increasing force, the braking action of the coaster brake increases.

If your bicycle has a caliper brake(s) in addition to the coaster brake, always use the coaster brake as the main brake to stop the bicycle.

⚠ WARNING: If you do not obey the following instructions, injury to the rider or to others can occur:

1. When you ride the bicycle the first time, test the coaster brake and practice using it at a low speed in a large level area that is free of obstructions.
2. Every time the bicycle is ridden, make sure the clamp [1] on the brake arm [2] is securely attached to the chain stay [3] of the bicycle frame. The coaster brake will not work correctly if the brake arm is not attached to the chain stay.
3. Always try to brake while going in a straight line. If you must brake while turning; when the pavement is wet; or when the pavement is covered with sand, gravel, or leaves, start to brake sooner than normal and apply the brake intermittently to reduce the chance of skidding.
4. Be careful when riding downhill or at a high speed because as your speed increases, a longer distance to stop the bicycle will be necessary. Slow for curves because too much speed can force you to make a turn that is too wide.
5. Have the coaster brake repaired by a bicycle service shop the first time you notice that it does not stop the bicycle quickly and smoothly or just does not work as well as it has in the past.



Maintenance

Every two years, more often if you ride in dusty or dirty conditions, have a bicycle service shop clean and lubricate the parts of the coaster brake that are inside the rear wheel hub.

DOLL CARRIER

If your bike comes with a rear mount doll carrier, please follow these instructions to assemble it to the bike.

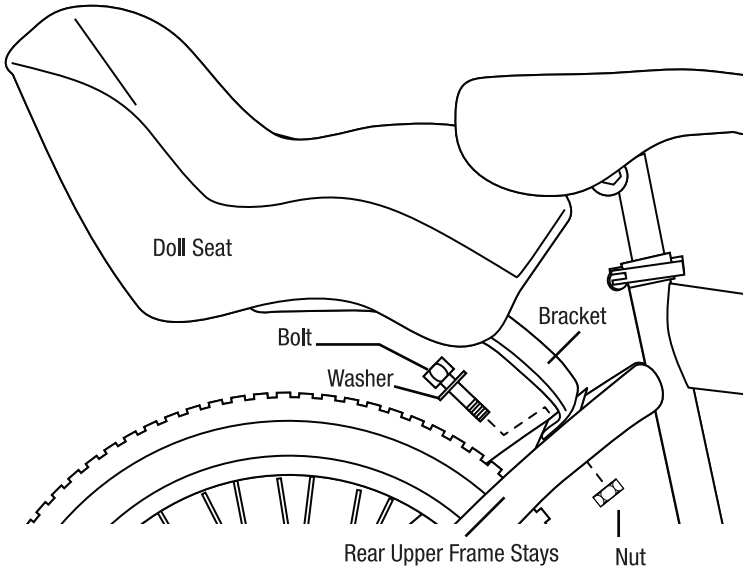
The doll seat has already been attached to the mounting bracket for your convenience.

1. Align the hole in the mounting bracket, with the hole in the small plate welded to the rear upper frame stays on your bike.

2. Insert the bolt with washer through the aligned holes in the bracket and plate.

3. Attach using the nut provided. Tighten securely.

Warning! This carrier is a TOY and intended for use with dolls only. Do not allow children or pets to ride in the doll carrier.



AXLE PEG ASSEMBLY

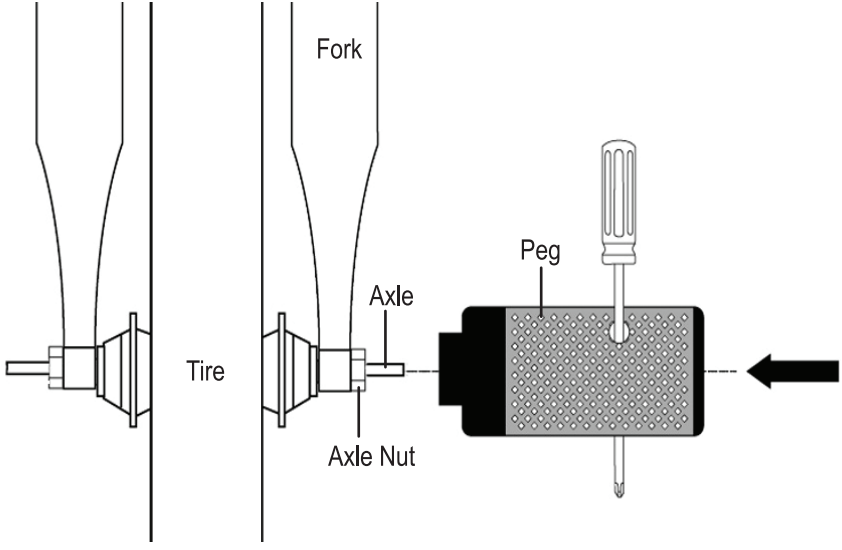
If your bike has front or rear pegs, please follow the instructions below.

1. Confirm that the axle nut is tightened securely on the axle.

2. Attach the peg to the axle by turning clockwise. A screw driver can be placed through the mounting holes to help in turning peg onto the axle.

3. Tighten against the frame or fork for a snug fit. repeat for all pegs included.

NOTE: Some bikes come with 2 pegs, some with 4 pegs. **NOT ALL AXLES ARE ABLE TO ACCEPT PEGS. THE AXLE SHOULD PROTRUDE AT LEASTE AN INCH FROM THE AXLE NUT TO ACCEPT PEGS.** please consult a professional bike mechanic if you have questions regarding your bike.



Tires and Tubes

After assembling your bike, it will be necessary to inflate the tires. Check the sidewall of the tire for the correct tire pressure (PSI) and inflate tires accordingly with a MANUAL BICYCLE PUMP. **Improper inflation is the biggest cause of tire failure. Due to the slightly porous nature of bicycle inner tubes, it is normal for your bike tires to lose pressure over time. For this reason it is critically important to maintain the proper tire inflation on your bike.**

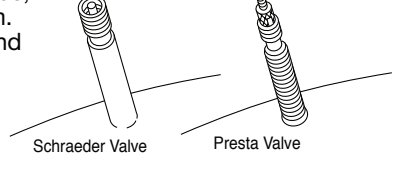
1. Your bicycle has been equipped with tires which the bike's manufacturer felt were the best balance of performance and value for the use for which the bike was intended. The tire size and pressure rating are marked on the sidewall of the tire. CAUTION: Pencil type automotive tire gauges and gas station air hose pressure settings can be inaccurate and should not be relied upon for consistent, accurate pressure readings. Instead, use a high quality dial gauge.

⚠ WARNING: Never inflate a tire beyond the maximum pressure marked on the tire's sidewall. Exceeding the recommended maximum pressure may blow the tire off the rim, which could cause damage to the bike and injury to the rider and others. The best way to inflate a bicycle tire to the correct pressure is with a bicycle pump. Gas station air hoses move a large volume of air very rapidly, and will raise the pressure in your tire very rapidly. We do not recommend using gas station air hoses.

Tire pressure is given either as maximum pressure or as a pressure range. How a tire performs under different terrain or weather conditions depends largely on tire pressure. Inflating the tire to near its maximum recommended pressure gives the lowest rolling resistance; but also produces the harshest ride. High pressures work best on smooth, dry pavement. Very low pressures, at the bottom of the recommended pressure range, give the best performance on smooth, slick terrain such as hard-packed clay, and on deep, loose surfaces such as deep, dry sand. Tire pressure that is too low for your weight and the riding conditions can cause a puncture of the tube by allowing the tire to deform sufficiently to pinch the inner tube between the rim and the riding surface.

Some special high-performance tires have unidirectional treads: their tread pattern is designed to work better in one direction than in the other. The sidewall marking of a unidirectional tire will have an arrow showing the correct rotation direction. If your bike has unidirectional tires, be sure that they are mounted to rotate in the correct direction.

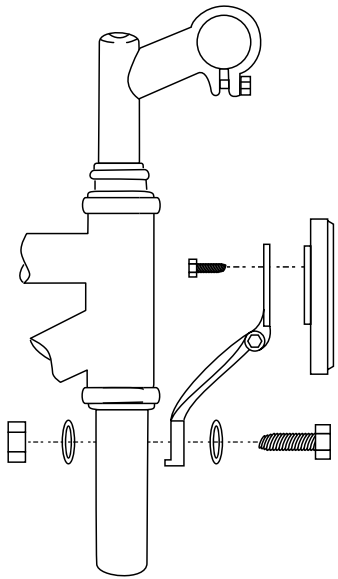
2. The tire valve allows air to enter the tire's inner tube under pressure, but doesn't let it back out unless you want it to. There are primarily two kinds of bicycle tube valves: The Schraeder Valve and the Presta Valve. The bicycle pump you use must have the fitting appropriate to the valve stems on your bicycle. The Schraeder is like the valve on a car tire, this is the type of valve stem you should have on your bike. To inflate a Schraeder valve tube, remove the valve cap and push the air hose or pump fitting onto the end of the valve stem. To let air out of a Schraeder valve, depress the pin in the end of the valve stem with the end of a key or other appropriate object.



REFLECTORS

Your bike is supplied with one front (white), one rear (red), two wheel (white) reflectors and four pedal (orange) reflectors. These are an important safety and legal requirement, and should remain securely fitted and in good condition at all times. Periodically, inspect all reflectors, brackets and mounting hardware for signs of wear or damage. Replace immediately if damage is found. Some bicycles will require you to instsall your reflectors onto your bicycle. Please refer to the following section for instructions on all types of bicycle reflectors.

⚠ WARNING! REFLECTORS ARE IMPORTANT SAFETY DEVICES WHICH ARE DESIGNED AS AN INTEGRAL PART OF YOUR BICYCLE. FEDERAL REGULATIONS REQUIRE EVERY BICYCLE TO BE EQUIPPED WITH FRONT, REAR, WHEEL, AND PEDAL REFLECTORS. THESE REFLECTORS ARE DESIGNED TO PICK UP AND REFLECT STREET LIGHTS AND CAR LIGHTS IN A WAY THAT HELPS YOU TO BE SEEN AND RECOGNIZED AS A MOVING BICYCLIST. CHECK REFLECTORS AND THEIR MOUNTING BRACKETS REGULARLY TO MAKE SURE THEY ARE CLEAN, STRAIGHT, UNBROKEN AND SECURELY MOUNTED. HAVE YOUR DEALER REPLACE DAMAGED REFLECTORS AND STRAIGHTEN OR TIGHTEN ANY THAT ARE BENT OR LOOSE.



FORK MOUNT REFLECTORS

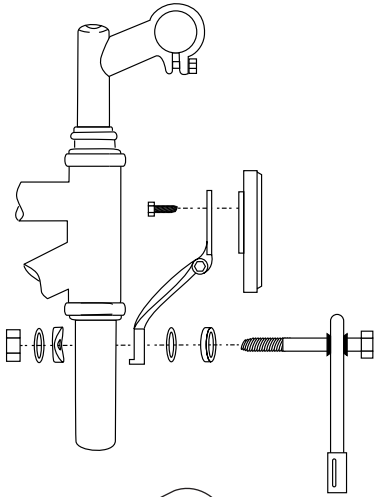
First insert one washer onto the hex bolt and insert hex bolt through the reflector bracket and then through the fork. Next, insert a second washer onto the bolt and thread a hex nut onto the bolt behind the fork. Tighten bolts until snug, making sure the reflector is in an upright position.

CAUTION: Be sure the reflector is vertical to the ground. If the reflector is aimed up or down, oncoming headlights may not reflect properly in the reflector.

FRONT REFLECTOR MOUNT WITH CALIPER BRAKE ASSEMBLY

First remove the hex nut from the back of the fork and pull the brake from the fork. insert a spacer, washer and reflector bracket on to the caliper bolt. Insert the caliper bolt back into the fork and secure firmly with a concave spacer, washer and hex nut. Finally, adjust the reflector such that it is in an upright position. Tighten bolts until snug.

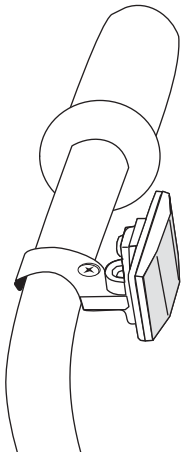
CAUTION: Be sure the reflector is vertical to the ground. If the reflector is aimed up or down, oncoming headlights may not reflect properly in the reflector.



FRONT REFLECTOR MOUNT ON HANDLEBAR

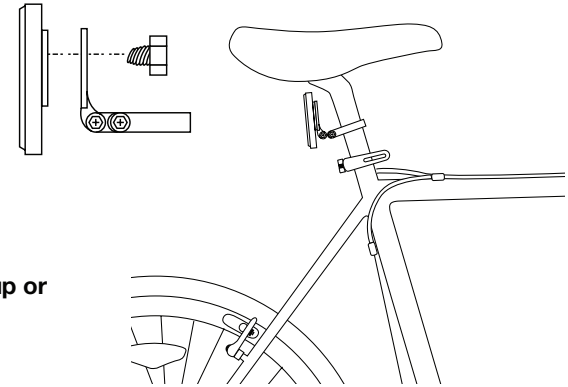
1. Remove the clamp screw from the reflector bracket.
2. Push open the bracket loop and slide in over the handlebar tube. If there is a sizing insert included with the bracket, please be sure it is inside the clamp loop before mounting.
3. Position the reflector bracket on the handlebar between the grip and crossbar, about 5” from the end of the handlbar.
4. Tighten the clamp screw securely.

CAUTION: Be sure the reflector is vertical to the ground. If the reflector is aimed up or down, oncoming headlights may not reflect properly in the reflector.



REAR REFLECTOR MOUNT ON SEAT POST

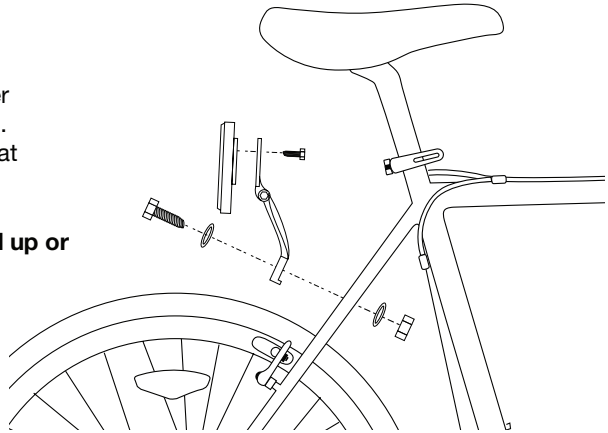
First attach the reflector to the bracket with the reflector screw, see the top diagram. Next, remove the clamp screw and open the clamping reflector bracket. place clamping reflector bracket around the seat post. If the clamp is too loose, insert the shim inside the clamp. Tighten the clamp screw to hold the reflector assembly in place. Finally adjust the reflector assembly in place and ensure that it is upright and facing away from the brike.



CAUTION: Be sure the reflector is vertical to the ground. If the reflector is aimed up or down, oncoming headlights may not reflect properly in the reflector.

REAR REFLECTOR MOUNT ON SEAT STAY BRACKET

First insert one washer onto the hex bolt and insert hex bolt through the reflector bracket and then through the seat stay bridge bracket. Next, insert a second washer onto the bolt and thread a hex nut onto the bolt behind the seat stay bridge bracket. Tighten bolts until snug. Finally adjust the reflector assembly in place and ensure that it is upright and facing away from the brike.



CAUTION: Be sure the reflector is vertical to the ground. If the reflector is aimed up or down, oncoming headlights may not reflect properly in the reflector.

MAINTENANCE & REPAIR

Correct routine maintenance of your new bike will ensure a longer life for your bike and a safer ride for you.

Every time you ride your bike, its condition changes. The more you ride, the more frequently maintenance will be required. We recommend you spend a little time on regular maintenance tasks. The following schedules will assist you in knowing what tasks need to be performed and how often. If you have any doubts about your abilities to accomplish these tasks, we recommend you take your bike to a professional bicycle mechanic periodically to have them done.

Schedule 1 - Lubrication

Frequency	Component	Lubricant	How to Lubricate
Weekly	chain	chain lube or light oil	brush on or squirt
	derailleur wheels	chain lube or light oil	brush on or squirt
	derailleurs	oil	oil can
	brake calipers	oil	3 drops from oil can
	brake levers	oil	2 drops from oil can
Monthly	shift levers	lithium based grease	disassemble
Every Six Months	freewheel	oil	2 squirts from oil can
	brake cables	lithium based grease	disassemble
Yearly	bottom bracket	lithium based grease	Bicycle Mechanic
	pedals	lithium based grease	disassemble
	derailleur cables	lithium based grease	disassemble
	wheel bearings	lithium based grease	Bicycle Mechanic
	headset	lithium based grease	Bicycle mechanic
	seat pillar	lithium based grease	disassemble

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 chain (WD-40™)

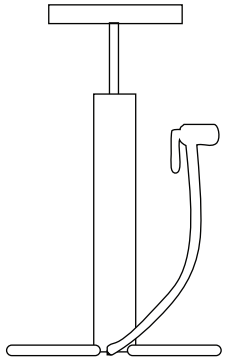
Schedule 2 - Service Checklist

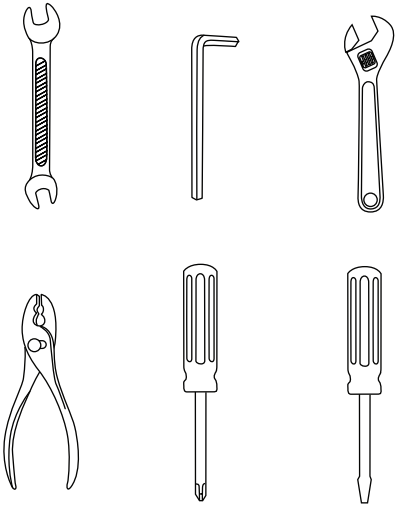
NOTE: Many instructions for adjustments can be found in the assembly portion of this manual.

Frequency	Task
Before every ride	Check wheel and pedal tightness Check tire pressure Check brake operation Check wheels for loose spokes Make sure all fasteners are tightened securely
After every ride	Quick wipe down with damp cloth
Weekly	Lubrication as per schedule 1
Monthly	Lubrication as per schedule 1 Check derailleur adjustment Check brake adjustment Check brake and gear cable adjustment Check tire wear and pressure Check wheels are true and spokes tight Check hub, head set and crank bearings for looseness Check pedals are tight Check handlebars are tight Check seat and seat post are tight and comfortably adjusted Check frame and fork for trueness Check all nuts and bolts are tight
Every Six Months	Lubrication as per schedule 1 Check all points as per monthly service Check and replace brake pads, if required Check chain for excess play or wear
Yearly	Lubrication as per schedule 1

Tools Required for Maintenance

1. Open ended wrench or ring wrenches: 8mm, 9mm, 10mm, 12mm, 13mm, 14mm, 15mm
2. Open end or pedal wrench 15mm
3. Allen key wrenches: 4mm, 5mm, 6mm, 8mm
4. Adjustable wrench
5. Standard flat head screwdriver
6. Standard Phillips head screwdriver
7. Standard slip joint pliers
8. Tire pump
9 Tube repair kit
10. Tire levers





Travel Tools

We suggest you take the following items with you when going on a long bike ride:

1. Spare tube
2. Patch kit
3. Pump
4. Tire levers
5. Multi-tool
6. Cell phone or change for a pay phone

WHEELS AND TIRES

Wheel Inspection
It is most important that wheels are kept in top condition. Properly maintaining your bicycle's wheels will help braking performance and stability when riding. Be aware of the following potential problems:

- **Dirty or greasy rims:**

Caution: These can render your brakes ineffective. Do not clean them with oily or greasy materials. When cleaning, use a clean rag or wash with soapy water, rinse and air dry. Don't ride while they're wet.
When lubricating your bicycle, don't get oil on the rim braking surfaces.

- **Wheels not straight:**

Lift each wheel off the ground and spin them to see if they are crooked or out of true. If wheels are not straight, they will need to be adjusted. This is quite difficult and is best left to a professional bicycle mechanic.

- **Broken or loose spokes:**

Check that all spokes are tight and that none are missing or damaged.
Caution: Such damage can result in severe instability and possibly an accident if not corrected.
Again, spoke repairs are best handled by a mechanic.

- **Loose hub bearings:**

Lift each wheel off the ground and try to move the wheel from side to side.
Caution: If there is movement between the axle and the hub, do not ride the bicycle. Adjustment is required.

- **Axle nuts:**

Check that these are tight before each ride.

- **Quick release:**

Check that these are set to the closed position and are properly tensioned before each ride.
Caution: Maintain the closed position and the correct adjustment. Failure to do so may result in serious injury.

Tire Inspection

Tires must be maintained properly to ensure road holding and stability. Check the following areas:

Inflation: Ensure tires are inflated to the pressure indicated on the sidewall of the tire. Improper inflation is the biggest cause of tire failure. Due to the slightly porous nature of bicycle inner tubes, it is normal for your tires to lose pressure over time. For this reason, it is critically important to maintain the proper tire inflation on your bike. **Caution: Use a hand or foot pump to inflate tires. NEVER inflate tires with an air compressor at a gas station. This can cause the tubes to over inflate and blowout.**

Bead Seating: When inflating or refitting the tire, make sure that the bead is properly seated in the rim.

Tread: Check that the tread shows no signs of excessive wear or flat spots, and that there are no cuts or other damage. **Caution: Excessively worn or damaged tires should be replaced.**

Valves: Make sure valve caps are fitted and that valves are free from dirt. A slow leak caused by the entry of the dirt can lead to a flat tire, and possibly a dangerous situation.

Recommended Tire pressures:

The recommended pressure molded on the sidewall of your bicycle tires should match the following chart. Use this as a general guide.

BMX	**35-50 p.s.i.**
MTB	**40-65 p.s.i.**
Road Touring	**70-90 p.s.i.**
Road Racing	**110-125 p.s.i.**
Hybrid/Crossbike	**60-100 p.s.i.**

HOW TO FIX A FLAT TIRE

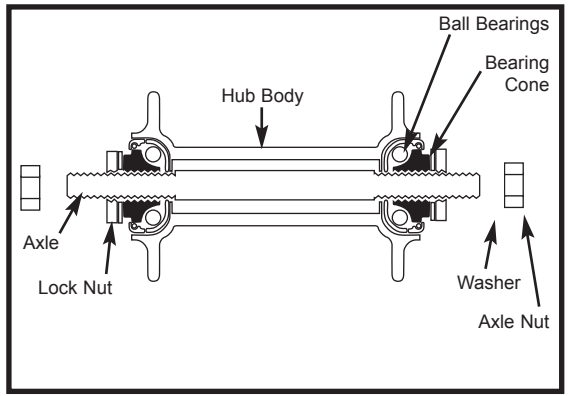
If you need to repair a tire, follow these steps:

1. Remove the wheel from the bicycle.
2. Deflate the tire completely via the valve. Loosen the tire bead by pushing it inward all the way around.
3. Press one side of the tire bead up over the edge of the rim. Note: Use tire levers, not a screwdriver, otherwise you may damage the rim.
4. Remove the tube, leaving the tire on the rim.
5. Locate the leaks and patch using a tube repair kit or replace the tube. Note: Ensure that the replacement tube size matches the size stated on the tire sidewall and that the valve is the correct type for your bicycle.
6. Match the position of the leak in the tube with the tire to locate the possible cause and mark the location on the tire.
7. Remove the tire completely and inspect for a nail, glass, etc. and remove if located. Also inspect the inside of the rim to ensure there are no protruding spokes, rust or other potential causes. Replace the rim tape which covers the spoke ends.
8. Remount one side of the tire onto the rim.
9. Using a hand pump, inflate the tube just enough to give it some shape.
10. Place the valve stem through the hole in the rim and work the tube into the tire. Note: Do not let it twist.
11. Using your hands only, remount the other side of the tire by pushing the edge toward the center of the rim. Start on either side of the valve and work around the rim.
12. Before the tire is completely mounted, push the valve up into the rim to make sure the tire can sit squarely in position.
13. Fit the rest of the tire, rolling the last, most difficult part on using your thumbs. Note: Avoid using tire levers as these can easily puncture the tube or damage the tire.
14. Check that the tube is not caught between the rim and the tire bead at any point.
15. Using a hand pump, inflate the tube until the tire begins to take shape, and check that the tire bead is evenly seated all the way around the rim. When properly seated, fully inflate the tire to the pressure marked on the sidewall.
16. Replace the wheel into the frame checking that all gears, brakes and quick release levers are properly adjusted.

HUB BEARING ADJUSTMENT

When checked, the hub bearings of either wheel will require adjustment if there is any more than slight side play.

1. Check to make sure neither locknut is loose.
2. 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 bicycle cone wrench or flat, thin open end wrench.
3. Rotate the adjusting cone as needed to eliminate free play.
4. Re-tighten the locknut while holding the adjusting cone in position.
5. Re-check that the wheel can turn freely without excessive side play.

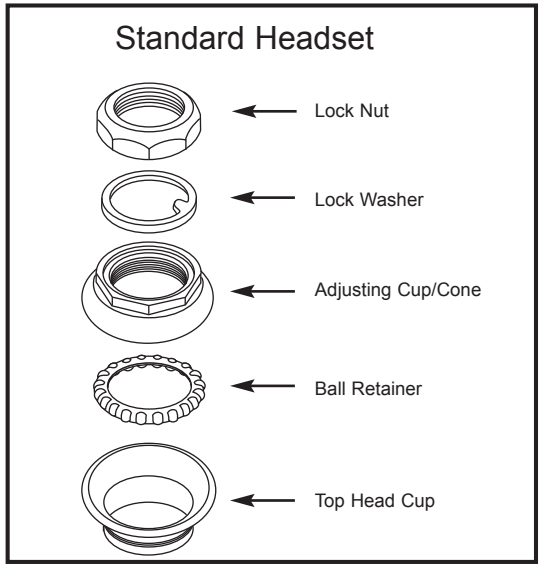


HEADSET

INSPECTION

The headset bearing adjustment should be checked every month. This is important as it is the headset which locks the fork into the frame, and if loose, can cause damage or result in an accident. While standing over the frame top tube with both feet on the ground, apply the front brake firmly and rock the bicycle back and forth; if you detect any looseness in the headset, it will need adjustment. Check that the headset is not over tight by slowly rotating the fork to the right and left. If the fork tends to stick or bind at any point, the bearings are too tight.

Note: If your bike is equipped with a threadless headset, please see a qualified specialist for repairs and adjustments.



ADJUSTMENT

Loosen the headset top locknut or remove it completely along with the reflector bracket, if fitted. Turn the adjusting cup clockwise until finger tight. Replace the lock washer or reflector bracket and tighten the lock nut using a suitable wrench.

Note: Do not over tighten or bearing damage will occur.

WARNING! Always make sure that the headset is properly adjusted and that the headset locknut is fullytightened before riding.

WARNING! Over tightening the stem bolt or headset assembly may cause damage to the bicycle and/or injury to the rider.

LUBRICATION

The brake lever and brake caliper pivot points should be oiled with 2-3 drops of light oil at least every three months to ensure smooth operation and to reduce wear. Cables should be greased along their entire length, after removing them from their casings, at least every six months. Always grease new cables before fitting.

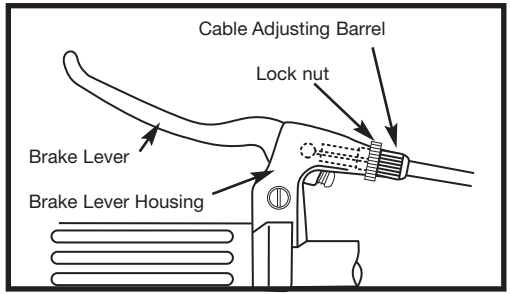
ADJUSTMENT - SIDEPULL CALIPERS

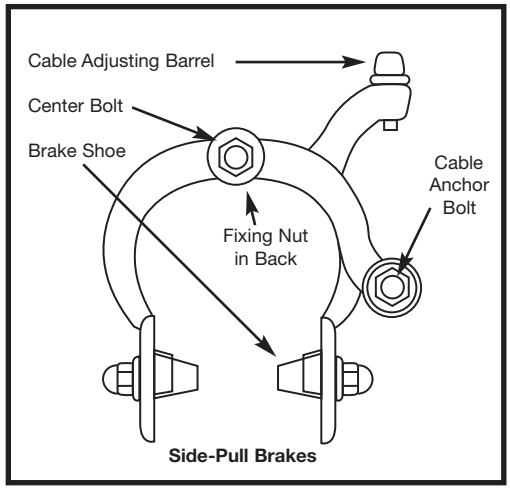
Minor brake adjustment can be made via the cable adjusting barrel, usually located at the upper cable arm.

Caution: The brake cable adjusting barrels are for minor adjustments only. For major adjustments see the appropriate section in the manual for the type of brakes on your bicycle.

To adjust, squeeze the brake pads against the rim, loosen the locknut and turn the adjuster. Brake pad clearance should be a maximum 2mm from the rim. When correct, retighten the lock nut. If the pads cannot be set close enough to the rim in this manner, you may have to adjust the cable length. Screw the barrel adjuster 3/4 of the way in, squeeze the pads against the rim, undo the cable anchor bolt and pull the cable through with pliers. Retighten the cable anchor bolt and apply full force to the brake lever to test, then fine tune using the barrel adjuster. If one pad is closer to the rim than the other, loosen the fixing nut at the back of the brake, apply the brake to hold it centered, and retighten the fixing nut.

WARNING! Ensure the brake fixing nut is secured tightly. Failure to do this may cause the brake assembly to dislodge from the fork/frame.





Side-Pull Brakes

PEDALS

Pedals are available in a variety of shapes, sizes and materials, and each are designed with a particular purpose in mind. Some pedals can be fitted with toe clips and straps. These help to keep the feet correctly positioned and allow the rider to exert pulling force, as well as downward pressure, on the pedals. Use of toe clips with straps requires practice to acquire the necessary skill to operate them safely.

Inspection: Pedals should be inspected every month, taking note of the following areas:

- Check that the pedals are tightened securely against the crank arm. If pedals are allowed to become loose, they will not only be dangerous but will also cause irreparable damage to the cranks.
- Check that pedal bearings are properly adjusted. Move the pedals up and down, and right to left, and also rotate them by hand. If you detect any looseness or roughness in the pedal bearings then adjustment, lubrication or replacement is required.
- Ensure that the front and rear pedal reflectors are clean and securely fitted.

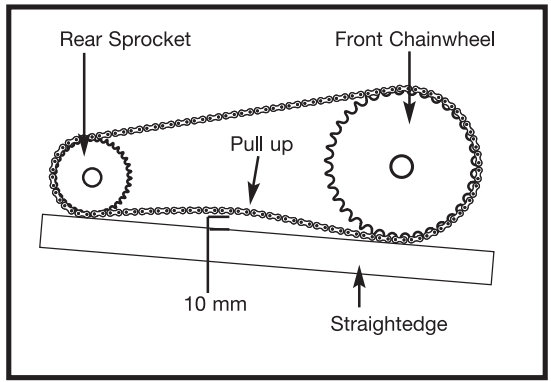
WARNING! Never ride with loose pedals. Always wear shoes.

Lubrication and Adjustment: Many pedals cannot be disassembled to allow access to the internal bearings and axle. However, it is usually possible to inject a little oil onto the inside bearings, and this should be done every six months.If the pedal is the type that can be fully disassembled, then the bearings should be removed, cleaned and greased every six to twelve months. Because of the wide variety of pedal types and their internal complexity, disassembly procedures are beyond the scope of this manual and further assistance should be sought from a professional bicycle mechanic.

Attachment

Note: The right and left pedals of a bicycle each have a different thread and are not interchangeable. Never force a pedal into the incorrect crank arm. Check for the right (R) and left (L) letters on each pedal and crank arm. Match the appropriate pedal to each crank (right to right and left to left) for assembly. Insert the correct pedal into the crank arm and begin to turn the thread with your fingers only. When the axle is screwed all the way in, securely tighten using a 15mm narrow open-ended wrench so that the shoulder of the pedal spindle is securely tightened against the crank arm. If removing a pedal, remember that the right pedal axle must be turned counter clockwise, i.e. the reverse of when fitting. If replacing the original pedals with a new set, make sure the size and the axle thread is compatible with the cranks on your bicycle. Bicycles use one of two types of cranks and these use different axle threads. Your bike may be equipped with cranks that are a one piece design with no separate axle. These operate with pedals that have a 1/2"(12.7mm) thread. Bikes equipped with three piece crank sets with a separate axle, left crank and right crank, use a slightly larger 9/16"(14mm) thread. Note: Never try and force a pedal with the wrong thread size into a bicycle crank.

CHAIN



Inspection: The chain must be kept clean, rust free and frequently lubricated in order to extend its life as long as possible. It will require replacement if it stretches, breaks, or causes inefficient gear shifting. Make sure that there are no stiff links, they must all move freely.

Lubrication

The chain should be lubricated with light oil at least every month, or after use in wet, muddy, or dusty conditions. Take care to wipe off excess oil, and not to get oil on the tires or rim braking surfaces.

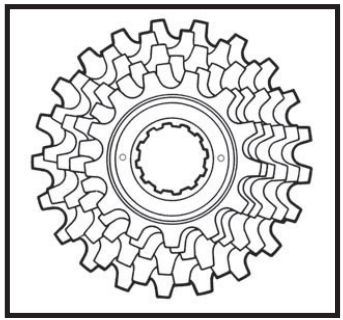
Adjustment and Replacement

On derailleur geared bicycles the rear derailleur automatically tensions the chain. To adjust the chain on single speed freewheel, coaster hub braked or 3-speed hub geared bicycles:

1. Loosen the rear axle nuts (and coaster brake arm clip if fitted) and move the wheel forward to loosen, or backward to tighten, in the frame.
2. When correctly adjusted, the chain should have approximately 10mm of vertical movement when checked in the center between the chainwheel and rear sprocket. Center the wheel in the frame and re-tighten the axle nuts after any adjustment.

Chains require a special tool to fit and remove chain links, or to change the length. We recommend that you go to a local bicycle mechanic to replace or change the length of your chain.

FREEWHEEL



Inspection: Like the chain, the freewheel must be kept clean and well lubricated. If the chain has become worn and needs replacing, then it is likely that the freewheel will also have become worn and should also be replaced. Take the chain off the freewheel and rotate it with your hand. If you hear a grinding noise or the freewheel stops suddenly after spinning it, it may need adjustment or replacement. Such action is beyond the scope of this manual and you should consult a local bike mechanic.

Problem	Possible Cause	Remedy
Gear shifts not working properly	- Derailleur cables sticking/stretched/damaged - Front or rear derailleur not adjusted properly - Indexed shifting not adjusted properly	- Lubricate/tighten/replace cables - Adjust derailleurs - Adjust indexing
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	- 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/bearings - 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

Problem	Possible Cause	Remedy
Freewheel does not rotate	- Freewheel internal pawl pins are jammed	- Lubricate. If problem persists, replace freewheel
Brakes not working effectively	- Brake blocks worn down - Brake blocks/rim greasy, wet or dirty - Brake cables are binding/stretched/damaged - Brake levers are binding - Brakes out of adjustment	- Replace brake blocks - Clean blocks and rim - Clean/adjust/replace cables - Adjust brake levers - Center brakes
When applying the brakes they squeal/squeak	- Brake blocks worn down - Brake block toe-in incorrect - Brake blocks/rim dirty or wet - Brake arms loose	- Replace blocks - Correct block toe-in - Clean blocks 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 block toe-in - Tighten headset
Wobbling wheel	- Axle broken - Wheel out of true - Hub comes loose - Headset binding - Hub bearings collapsed - QR mechanism loose	- Replace axle - True wheel - Adjust hub bearings - Adjust headset - Replace bearings - Adjust QR mechanism

Problem	Possible Cause	Remedy
Steering not accurate	- Wheels not aligned in frame - Headset loose or binding - Front forks or frame bent - Stem wedge bolt not tight	- 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

WARRANTY

This Warranty extends only to the original retail purchaser, who must produce proof of purchase in order to validate any claim. This warranty is not transferable to anyone else.

What does this Warranty cover? This Limited Warranty covers all parts of the bicycle to be free of defects in workmanship and materials.

What must you do to keep the Warranty in effect? This Warranty is effective only if:
- The bicycle is completely and correctly assembled.
- The bicycle is used under normal conditions for its intended purpose, by a person that properly fits and is capable of controlling the bicycle.
- The bicycle receives all necessary maintenance and adjustments.

What is not covered by this Warranty? This warranty does not include labour and transportation charges.The bicycle is designed for general transportation and recreational use only. This Warranty does not cover normal wear and tear, paint, rust, normal maintenance items, personal injury, or any damage, failure, or loss that is caused by accident, improper assembly, maintenance, adjustment, storage, or use of the bicycle.
This Warranty will be void if the bicycle is ever:
- Used in any competitive sport.
- Used for stunt riding, jumping, aerobatics or similar activity.
- Installed with a motor or modified in any other way.
- Ridden by more than one person at a time.
- Rented or used for commercial purposes.
- Used in a manner contrary to the instructions in this Owner's Manual.

Kent International will not be liable for incidental or consequential loss or damage, due directly or indirectly from use of this product.

For how long does this Warranty last? The frame is warranted for the usable life of the bicycle. Kent International will replace the frame at no charge, should it fail in any weld point when the cycle has been used in a normal manner, and determined by our inspection. Kent will also replace the bicycle fork if it should fail at any weld point. You must receive prior authorization from Kent Customer Service, before returning any product or parts. All other components are warranted against defects for six months from the date of purchase when properly assembled and used in a normal manner.

What will Kent do? We will replace, without charge to you, any frame, fork, or component found to be defective by Kent.
CONSUMER MUST PAY ALL LABOR AND TRANSPORTATION CHARGES CONNECTED WITH THE REPAIR OR WARRANTY WORK.

How do you get service? Phone the Customer Service Department (8am - 4pm E.S.T.) at 1-800-451-KENT. All warranty claims should be made to Kent International, Inc. 60 E. Halsey Rd. Parsippany, NJ 07054 USA.

What rights do you have? This warranty gives you specific legal rights. You may also have other rights which vary from State to State.