

BICYCLEOWNER'S MANUAL


The following manual is only a guide to assist you and is not a complete or comprehensive manual of all aspects of maintaining and repairing your bicycle. The bicycle you have purchased is a complex object. Hyper Bicycles recommends 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. You will save time and the inconvenience of having to go back to the store if you choose to write or call us concerning missing parts, service questions, operating advice, and/or assembly questions.


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Monday-Friday 8:00AM to 5:00PM (CST)
For product related questions email us at: info@hyperbicycles.com
For customer service questions email us at: service@hyperbicycles.com

## IMPORTANT NOTICE

## WRITE YOUR SERIAL NUMBER HERE



Keep your serial number handy in case of damage, loss or theft.

TOLL FREE SERVICE HOTLINE
1-866-204.9737 SERIAL NUMBER LOCATION

Bottom View



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MAX W EIGHT: 275 Ibs
This manual contains important safety, performance
and maintenance information. Please read this manual before taking your first ride on your new bicycle, and keep this manual handy for future reference.

## VISIT US ONLINE@

 www.hyperbicycles.com
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 1-866-204•9737If you have a problem, do not return to the store, call 1-866-204-9737. Adult Supervision Required when in use. For parts or repair service, call Hyper Bicycles at 1-866-204-9737.


## BICYCLE <br> SAFETY

## SAFETY EQUIPMENT

WARNING! 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.

## 1. HELMET

While not all states require bicyclists to wear approved protective headgear, common sense dictates that you should wear an ANSI or Snell approved helmet whether the law requires it or not. Most serious bicycle injuries involve head injuries which might have been avoided if the rider had worn a helmet. Your dealer has a variety of attractive helmets, and can recommend one to suit

Right Way


## Wrong Way


your needs. Your helmet must fit correctly, be worn correctly and be properly secured to perform optimally. Ask your dealer to help you with the fit and adjustment of your helmet.

WARNING! Always wear a helmet when riding your bike. Always keep the chin strap securely buckled. Failure to wear an approved helmet may result in serious injury or death.

## 2. REFLECTORS

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. The size, performance and location of each reflector is specified by the U.S. Consumer Products Safety Commission. The reflectors are designed to pick up and reflect car lights in a way that helps you to be seen and recognized as a moving bicyclist.

CAUTION! Check reflectors and their mounting brackets regularly to make sure that they are clean, straight, unbroken and securely mounted. Have your dealer replace damaged reflectors and straighten or tighten any that are bent or loose.

WARNING! Do not remove the reflectors or reflector mounting brackets from your bicycle. They are an integral part of the bicycle's safety system. Removing the reflectors may reduce your visibility to others using the roadway.

Being struck by other vehicles often results in serious injury or death. remember: reflectors are not a substitute for lights. Always equip your bicycle with all state and locally mandated lights.

## 3. LIGHTS

We strongly recommend that children not ride after dusk or before daylight. If you must ride your bike after dusk or before full daylight, your bicycle must be equipped with lights so that you can see the road and avoid road hazards; and so that others can see you. Vehicle laws treat bicycles like any other vehicle. That means you must have a white front and a red rear light operating if you are riding after dusk or before full daylight. Your bike dealer can recommend a battery or generator powered lighting system appropriate to your needs.

WARNING: Reflectors are not a substitute for proper lights. It is your responsibility to equip your bicycle with all state and locally mandated lights. Riding at dawn, at dusk, at night or at other times of poor visibility without a bicycle lighting system which meets local and state laws and without reflectors Is dangerous and may result in serious injury or death.

## 4. PEDALS

Some higher performance model bicycles come equipped with pedals that have sharp and potentially dangerous surfaces. These surfaces are designed to add safety by increasing adhesion between the rider's Shoe and the bicycle pedal.

If your bicycle has this type of high-performance pedal you must take extra care to avoid serious injury from the pedals' sharp surfaces.

Based on your riding style or skill level, you may prefer a less aggressive pedal design. Your dealer can show you a number of options and make suitable recommendations.

## MECHANICAL SAFETY CHECK

Here is a simple, sixty-second mechanical safety check which you should get in the habit of making every time you're about to get on a bike.

## 1. NUTS, BOLTS

Lift the front wheel off the ground by two or three inches, then let it bounce on the ground. Anything sound, feel or look loose? Do a quick visual and tactile inspection of the whole bike. Any loose parts or accessories? If so, secure them. If you're not sure, ask someone with experience to check.

## 2. TIRES \& WHEELS

Tires correctly inflated? Check by putting one hand on the saddle, one on the intersection of the handlebars and stem, then bouncing your weight on the bike while looking at tire deflection. Compare what you see with how it looks when you know the tires are correctly Inflated; and adjust if necessary.

## BICYCLE SAFETY



Tires in good shape? Spin each wheel slowly and look for cuts in the tread and sidewall. Replace damaged tires before riding the bike.

Wheels true? Spin each wheel and check for brake clearance and side-to-side wobble. If a wheel wobbles side to side or hits the brake pads, take the bike to a qualified bike shop to have the wheel trued.

CAUTION: Wheels must be true for hand brakes to work effectively. Wheel truing is a skill which requires special tools and experience. Do not attempt to true a wheel unless you have the knowledge and tools needed to do the job correctly.

## 3. BRAKES

If your bicycle has hand-operated brakes, squeeze the brake levers. Are the brake shoes contacting the wheel rim within an inch of brake lever movement? Can you apply full braking force at the levers without having them touch the handlebar? If not, your brakes need adjustment. Do not ride the bike until the brakes are properly adjusted. If your bicycle has a coaster brake, check to make sure that the coaster brake arm is securely clamped to the bicycle frame. If the arm or its mounting bracket are loose, do not ride the bike until the brake arm is properly secured. See page 16.

WARNING: Riding with improperly adjusted and secured brakes or worn brake shoes is dangerous and can result in serious injury or death.
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## 4. WHEEL NUTS

Are the front and rear wheels straight and secure in the dropouts? Are the wheel nuts properly tightened?

WARNING: Riding with an improperly installed or insufficiently tightened wheel can cause the wheel to wobble or disengage from the bicycle, which can cause damage to the bicycle and serious injury or death.

## 5. HANDLEBAR AND SADDLE ALIGNMENT

Are the saddle and handlebar stem correctly parallel to the bike's top tube and tight enough so that you can't twist them out of alignment?

## 6. HANDLEBAR ENDS

Are the handlebar grips secure and in good condition? If not, replace them. Are the handlebar ends plugged? If not, plug them before you ride.

WARNING: Loose or damaged handlebar grips can cause you to lose control and fall. Unplugged handlebars can act like a cookie cutter on your body, and cause serious injury in an otherwise minor accident.

## RIDING SAFELY AND RESPONSIBLY

NOTE: Like any sport, bicycling involves risk of injury and damage. By choosing to ride a bicycle, you assume the responsibility for that risk. Not the people who sold you the bike. Not the people who made it. Not the people who distribute it. Not the people who manage or maintain the roads or trails you ride on. You. So you need to know - and to practice - the rules of safe and responsible riding.

## AN IMPORTANT NOTE TO PARENTS

In addition to The Basics (page 7), the Rules of the Road (page 7), the Rules of the Trail (page 9), Wet Weather Riding (page 10), Night Riding (page 10) and Bicycling in Traffic (page 11) kids need to be taught...and to have frequently reinforced...the following rules and lessons which adults are already expected to know. We urge you to take the time to familiarize yourself with these rules and to teach them to your child before you let your child ride unsupervised.

## \&1. RULES

I No playing in the road or in the street

- No riding on busy streets.

E No riding at night.

- Stop for all STOP signs.
- Ride on the right of traffic.


## 2. LESSONS

The lessons that follow relate to some of the most common real situations that children encounter when riding their bikes. Go over these situations with your child and make sure the lesson objective is accomplished.

Driveway Rideout: When a youngster rides out of the driveway and is struck by a car, that is called a rideout accident.

What can you do?
First, realize the danger of your own driveway. If there are obstructions to the view of passing motorists (like bushes or trees), trim them back. You might park your car in front of the driveway, if local ordinance permits. This way, your child can't use the driveway as a launching pad.

But the most important thing you can do is teach your child about driveway safety. Take your child outside to the driveway and have him/her practice the following steps:

- Stop before entering the street.
- Look left, right and left again for traffic.

I If there's no traffic, proceed into the roadway.
Running the Stop Sign: Car/bike crashes can happen when a cyclist runs a stop sign. Most cyclists who get hit riding through stop signs know that they

money" to the bike so that, in an emergency, the child will be able to call home.

Following the Leader: There is increased risk of car/bike collision if children are following each other, because if the first one does something dangerous, those following may do it too.

## What can you do?

Teach your child to always assess the traffic situation for him/herself. When a group is riding around, each cyclist should stop for stop signs; each cyclist should look to the rear before making left turns; and so on. One way to get the message across is to play a game with the chld similar to 'Simon Says'. In this game, however, the emphasis should not be on doing what 'Simon Says', but rather have the child make a decision based on the situation. The child should learn to ignore what 'Simon Says'. Children need to learn to think for themselves to ride safely.

SUMMARY: Teach your child early - the earlier the better. Learning skills such as looking and avoiding hazards takes time. Be prepared to repeat lessons until your child understands what you're trying to get across. Be patient. Your efforts will be rewarded, knowing that your child is aware of safe riding skills.

## B. THE BASICS

1. Always do the Mechanical Safety Check Before you get on a bike.
2. Be thoroughly familiar with the controls of your bicycle.
3. Be careful to keep body parts and other objects away from the sharp teeth of chainrings; the moving chain; the turning pedals and cranks; and the spinning wheels of your bicycle.
4. Always wear a cycling helmet which meets the latest Snell or ANSI standard.
5. Always wear shoes that will stay on your feet and will grip the pedals. Never ride barefoot or wearing sandals.
6. Wear bright, visible clothing that is not so loose that is can catch on moving parts of the bicycle or be snagged by objects at the side of the road or trail.
7. Don't jump with your bike. Jumping a bike, particularly a BMX bike, can be fun; but it puts incredible stress on everything from your spokes to your pedals. Perhaps most vulnerable to jumping on jumping their bikes risk serious damage, to their bicycles as well as to themselves.

## C. RULES OF THE ROAD

1. Learn the local bicycle laws and regulations. Many communities have special regulations about licensing of bicycles, riding on sidewalks, law regulating bike path and trail use, and so on. Many states have helmet laws, child carrier laws and

2. Never ride your bicycle while under the influence of alcohol or drugs.
3. If possible, avoid riding in bad weather, when visibility is obscured, at dusk or in the dark, or when extremely tired. Each of these conditions increases the risk of accident.

## RULES OF THE TRAIL

1. We recommend that children not ride off-road without the accompaniment of an adult. In any event, never ride alone in remote areas. Even when riding with others, make sure that someone knows where you're going and when you expect to be back. Always take along some kind of identification, so that people know who you are in case of an accident; and take a couple of dollars in cash for a candy bar, a cool drink or an emergency phone call.
2. Surface hazards make off-road riding much more difficult and therefore more dangerous than riding on paved roads. Start slowly and build up your skills on easier terrain before tackling the more difficult.
3. Learn and obey the local laws regulating where and how you can ride off-road, and respect private property. Don't ride where you are not welcome or where you are not allowed.
4. You are sharing the trail with others - hikers, equestrians, other cyclists. Respect their rights, and be tolerant if they inconvenience you.
5. Yield right of way to pedestrians and animals. Ride in a way that does not frighten or endanger them, and stay far enough away so that their unexpected moves don't endanger you.
6. You may be riding in sensitive habitat, so stay on the designated trail. Don't contribute to erosion by riding in mud or with unnecessary sliding. Don't disturb wildlife or livestock; and don't disturb the ecosystem by cutting your own trail through vegetation or streams.
7. It is your responsibility to minimize your impact on the environment. Ride accordingly. Leave things as you found them; and always take out everything you brought in.
8. If you crash: First, check yourself for injuries, and take care of them as best you can.

Next, check your bike for damage, and fix what you can.
Then, when you get home, carefully perform the maintenance proceedure described this manual and check for any other damaged parts. All bent, scored or discolored parts are suspect and should be replaced.

©
WARNING: A crash can put extraordinary stress on bicycle components, causing them to fatigue prematurely. Components suffering from stress fatigue can fail suddenly and catastrophically, causing loss of control, serious injury or death.

CAUTION: If you have any doubt about the condition of the bicycle or any of its parts, take it to your dealer for a thorough check.

BICYCLE SAFEM


## WET WEATHER RIDING

WARNING: Wet weather impairs traction, braking and visibility, both for the bicyclist and for other vehicles sharing the road. The risk of accident is dramatically increased in wet conditions.

Under wet conditions, the stopping power of your brakes (as well as the brakes of other vehicles sharing the road) is dramatically reduced and your tires don't grip nearly as well. This makes it harder to control speed and easier to lose control. To make sure that you can slow down and stop safely in wet conditions, ride more slowly and apply your brakes earlier and more gradually than you would under normal, dry conditions.

## NIGHT RIDING

Riding a bicycle at night is many times more dangerous than riding during the day. Therefore, children should never ride at dawn, at dusk or in the dark. Adults should not ride at dawn, at dusk or at night unless it is absolutely necessary.

(1)
WARNING: Riding at dawn, at dusk, at night or at other times of poor visibility without a bicycle lighting system which meets local and State laws and without reflectors is dangerous and can result in serous injury or death.

Even if you have excellent night vision, many of the
people with whom you're sharing the road don't. A bicyclist is very difficult for motorists and pedestrians to see at dawn, at dusk, at night or at other times of poor visibility. If you must ride under these conditions, check and be sure you comply with all local laws about night riding: follow the Rules of the Road and of the Trail even more carefully; and make sure to take the following additional precautions:

Before riding at dawn, at dusk, at night or at other times of poor visibility, take the following steps to make yourself more visible:

- Make sure that your bicycle is equipped with correctly positioned and securely mounted reflectors
- Purchase and install an adequate battery or generator powered head and tail light.

I Wear light colored, reflective clothing and accessories, such as a reflective vest, reflective arm and leg bands, reflective stripes on your helmet, flashing lights...any reflective device or light source that moves will help you get the attention of approaching motorists, pedestrians and other traffic.

- Make sure your clothing or anything you may be carrying on the bicycle does not obstruct a reflector or light.

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While riding at dawn, at dusk, at night or at other times of poor visibility:

I Ride slowly.
I. Avoid areas of heavy traffic, dark areas, and roads with speed limits over 35 mph .

- Avoid road hazards.

I If possible, ride on routes already familiar to you.

## BICYCLING IN TRAFFIC



Obey traffic signs and signals -Bicycles must drive like the other vehicles if they are to be taken seriously by the motorists


Never ride against trafficMotorists aren't looking for bicyclists on the wrong side of the road.


Choose best way to turn left There are two ways to make a left turn. \#1 Like an auto Signal, move into the left lane and turn left. \#2 Like a pedestrian - Ride straight to the far side crosswalk. Walk your bike across.


Go slow on sidewalks Pedestrians have the right of way. By law, you must give pedestrians audible warning when you pass. Don't cross driveways or intersections without slowing to a walkers' pace and looking very carefully for traffic (especially traffic turning right on a green light). driveways or intersections


Don't pass on the right Motorists may not look for or see a bicycle passing on the right.

## TOOLS/TECHNICAL SUPPORT

Your new bicycle was assembled and tuned in the factory and then partially disassembled for shipping. You may have purchased the bicycle already full re-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. Please check that all parts referred to in the instructions and shown in the diagram have been included, and that all tools needed are at your disposal. For more details on inspections, lubrication, maintenance and adjustment of any area please refer to the relevant sections in this manual. If you need replacement parts or have questions pertaining to assembly of your bicycle, contact Hyper Bicycles directly.

VISIT US ONLINE@ For product related questions email us at: info@hyperbicycles.com www.hyperbicycles.com For customer service questions email us at: service@hyperbicycles.com

## HYPER BICYCLES SERVICE AND TECHNICAL SUPPORT: <br> 1-866-204-9737 OR 1-866-20-(HYPER) <br> Monday - Friday (8:00AM-5:00PM - CST)

## Tools Required:

- Phillips head screw driver; $4 \mathrm{~mm}, 5 \mathrm{~mm}$
- 6 mm \& 8 mm Allen keys; adjustable
- Adjustable wrench or a $9 \mathrm{~mm}, 10 \mathrm{~mm}, 14 \mathrm{~mm} \& 15 \mathrm{~mm}$
- Open and box end wrenches; and a
- Pliers with cable cutting ability.


To avoid injury, this product must be properly assembled before use. If your bicycle was obtained after assembled, we strongly recommended that you review the complete assembly instructions and maintenance checks specified in this manual before riding.

## Riding Safety and Responsibility

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

If the bicycle was purchased unassembled, it is the owner's responsibility to follow All assembly and adjustment instructions exactly as written in this manual and any "Special Instructions" supplied with the bicycle. The owner must make sure all components are securely attached.

If the bicycle was purchased assembled, it the owner's responsibility, before riding the Bicycle for the first time, to make sure the bicycle is assembled and adjusted exactly As written in this manual and any "Special Instructions" supplied with the bicycle. The owner must make sure all components are securely attached.

## Fitting the Rider to the Bicycle

To determine the correct size of bicycle for the rider.


Straddle the assembled bicycle with feet shoulder width apart and flat on the ground
There must be at least one inch of clearance (1) between the highest part of the top tube (2) and the crotch of the rider

The minimum leg-length for the rider is the highest part of the top tube plus one-inch (3).
The rider must be able to easily reach and operate the brake levers (if so equipped).

1. Put the seat post mounted rear reflector in the correct position by loosening the screws of the rear reflector bracket.
2. Make sure the rear reflector is vertical and points straight toward the rear of the bicycle.
3. Make sure there are at least 3 inches of clearance between the top of the seat and the top of the red rear reflector.

Operation and Maintenance


WARNING: For your own safety, do not ride the bicycle if the reflectors are incorrectly installed, damaged, or missing. Make sure the front and rear reflectors are vertical. Do not allow the visibility of the reflectors to be blocked by clothing or other articles. Dirty reflectors do not work well. Clean the reflectors, as necessary, with soap and a damp cloth.

## Bicycle Assembly

## REFLECTORS

Your bicycle is supplied with one front (white), one rear (red), two wheel (white), and two pedal (orange) reflectors. These are an important safety and legal requirement, and should remain securely fitted and in good, clean conditions at all times. Periodically, inspect all reflectors, brackets and mounting hardware for signs of wear or damage. Replace immediately if damage is found.

## (Front Reflector Bracket Installation)

NOTICE: It is important to check and adjust the position of the reflectors as you assemble your bike. The reflectors must always be vertical (perpendicular to the ground) and pointed toward the front and rear of the bike. Please make sure that the adjustment is correct as a final step in the assembly of your bike.

## Attaching hardware to the handlebars.

With the white reflector facing forward wrap the rear end of the reflector bracket around the handlebar(A). Once the bracket is in the correct position, and the fastening nut is in place underneath the bracket, thread the screw down through the top of the bracket. Tighten screw firmly with screwdriver(B).


Handlebar Reflector Diagram A

BTCYCLE
ASSEMBLY



## SADDLE HEIGHT (FIG A)

1. Turn crank to place it in it's lowest position.
2. Place heel of foot on pedal with foot parallel to the ground.
3. Position saddle so that toe of other foot can touch the ground. Saddle should also be parallel to the ground and aligned straight with the bicycle frame.
4. Tighten seat post bolt. Recommended torque is $150 \mathrm{in} / \mathrm{lbs}$.

NOTE: Seat post must be inserted at least to the minimum insertion mark stamped on the lower part of the post. If no minimum insertion mark can be found, make sure at least 3 " of the post is inside the bicycle frame tube.


FIG A

## FORWARDS AND BACKWARDS <br> (FIG B)

1. Position crank arm parallel to the ground.
2. Place ball of foot on pedal with foot parallel to the ground.
3. Position the saddle so that an imaginary line drawn from the center of your knee to the pedal spindle is vertical. Some riders move the saddle slightly forward of this position.
NOTE: Saddle should be horizontal and perfectly aligned with the bicycle.
4. Tighten saddle clamp nuts securely.


FIG B

Please read and follow all directions in this manual.

## INSTALL PEDALS



1. Thread the pedal marked " R " clockwise into the right or chain wheel side of the crank arm.

2. Thread the pedal marked " $\llcorner$ " counter-clockwise into the left side of the crank arm.

## NOTE:

Hand thread pedals into position without use of a wrench to ensure threads are not crossed. Damage to crank arm will result from crossed threads. When tightening with a wrench, make sure each spindle is firmly seated against the crank arm. If jaws of wrench are too thick, they may prevent proper tightening of pedal spindle against crank arm.
All pedals have " L " or " R " stamped on the threaded spindle of each pedal.


## INSTALL SADDLE (SEAT CLAMP)

1. Insert the seat post into bicycle frame tube with small swaged end up.

NOTE: Seat post must be inserted at least to the minimum insertion mark stamped on the lower part of the post. If no minimum insertion mark can be found, make sure at least $3^{\prime \prime}$ of the post is inside the bicycle frame tube.
2. Tighten / Close the Quick Release (as per instructions Fig. 2 Page 20)
3. Adjust saddle clamp nuts, so that saddle clamp will fit down fully onto top swaged end of seat post.
4. Tighten saddle clamp nuts evenly on both sides to the desired position of saddle on seat post. Insure that saddle is in firm position and does not move before riding (recommended top of saddle level to ground.)


## INSTALL SADDLE (Quick Release)

Attention! Always insert seat post into bicycle frame above the minimum insert mark, see Fig. 2. Incorrect seat post insertion outside of minimum mark will cause bicycle damage or injury.


## Adjusting the Handlebar Stem and Headset

NOTE: the handlebar stem and headset are an integrated system. Both must be adjusted at the same time.

1. To adjust the headset or stem, first loosen the two stem binder bolts, then the adjuster bolt in the top cap.
2. Align the handlebar stem with the front wheel.
3. To remove play from the headset, begin by tightening the adjuster bolt in the top cap. This will tighten the headset and remove side to side movement of the fork. If the fork fails to rotate freely, the adjuster bolt is too tight and needs to be loosened. WARNING: Do not over tighten the adjuster bolt. Its functions to adjust the headset. The stem binder bolts' function is to hold the fork and stem in place. 4. Once the headset is adjusted, tighten the two stem binder bolts to the recommended torque of $\mathbf{1 4 0}$ pounds per inch. Do not over tighten these bolts.

WARNING: Do not over tighten the stem binder bolts and handlebar binder bolts. Failure to properly tighten these bolts may damage the handlebar and/or stem to fork assembly. This may compromise the steering action, causing you to possibly lose control, and possibly injure yourself.

1. When Quick Release is in the open position, see (Fig. 1) insert the seat post above the Minimum Seat Post Mark.
2. Hold the saddle aligned in the forward position at the desired seat height. Close quick release counter clockwise see (Fig. 2).

Note: If the seat post /saddle is not secure enough open the quick release lever. Slightly turn Adjustment Nut and close quick release lever. Repeat until seat post is very secure. There should be enough tension to make it hard to close quick release lever.


## Handlebar and Stem

1. Assemble the stem to the fork: If necessary, assemble the stem to bolt (4),washer (5), and wedge nut (2) to the stem (1).
Turn the stem bolt only four revolutions into the wedge nut.
Turn the stem bolt only four revolutions into the wedge nut (2). Point the stem toward the front of the bicycle and put it into the locknut (7). Put the stem at a comfortable height for the rider.

WARNING: To prevent steering system damage and possible loss of control, the "MIN-IN" (minimum insertion) mark on the stem must be inside the locknut.

Make sure you can not see the "MIN-IN" (minimum insertion) mark (3) on the stem above the locknut.
Tighten the stem bolt just enough that the stem will not fall into the locknut.
2. Assemble the handlebar to the stem:

Put the handlebar (8) into the stem, but do not tighten the handlebar clamp (6) at this time.
Align the stem with the front wheel and tighten the stem bolt
3. Assemble the brake lever to the handlebar. Loosen the clamp screw of each brake lever.
If necessary, move the handlebar to each side to install the brake levers put the brake levers on the handlebar with the brake lever for the rear brake on the right side of handlebar.
Do not tighten the clamp screw of the brake levers at this time.
4. Tighten stem bolt and the handlebar clamp:

WARNING: do not over tighten the stem bolt. Over tightening the stem bolt can damage the steering


## BICYCLE ASSEMBLY



## Handlebar and Stem (continued)

Put the handlebar in a comfortable position for the rider

4
WARNING: if the handlebar clamp is not tight enough, the handlebar can slip in the stem. This can cause loss of control

Tighten the bolts of the handlebar clamp. If the handlebar clamp has more than one bolt, than tighten the bolts equally.
5. Test the tightness of the stem: straddle the front wheel and hold it between your legs.

Try to turn the front wheel by turning the handlebar. If the handlebar and stem turn with out turning the front wheel, realign the stem with the front wheel.

Tighten the bolt tighter than you did before (about half a revolution only at a time).

Do this test again, until the handlebar and stem do not turn without turning the wheel
6. Test the tightness of the handlebar: Hold the bicycle stationary and try to move the ends of the handlebar forward or backward.
If the handlebar moves, loosen bolts of handlebar clamps. Put the handlebar in the correct position

Tighten the bolts of the handlebar clamp tighter than before If the handlebar clamp has more than one bolt, tighten the bolts equally

Do this test again, until the handlebar does not move in the handlebar clamp.

## Assemble the front wheel to the fork as shown:

Insert wheel into position making sure the axle (1) is aligned with the fork dropout (2)

- Make sure the tab of each security washer (4) is in the hole of the fork

NOTE: Some models have a front fork with a built in wheel retention feature. The security washers are not required and will not fit on a fork with this feature.

- Using the two axle nuts (3) with serrations, tighten axle nuts and secure the front wheel.

(1)
WARNING: Do not use the nuts without
serrations to attach the front wheel.
NOTE: the recommended torque of $\mathbf{2 1}$ ft-Ibs.

Hub Insertion Diagram


Security Washer Diagram


BICYCLE ASSEMBLY


## Coaster Brake

APPLY PRESSURE TO SLOW DOWN OR STOP

The coaster brake is a sealed mechanism, which is a part of the bicycle's rear wheel hub. The brake is activated by reversing the rotation of the pedal cranks (see the coaster brake diagram). Start with the pedal cranks in a nearly horizontal position, with the front pedal in about the 4 o'clock position, and apply downward foot pressure on the pedal that is to the rear. The more downward pressure you apply, the more braking force, up to the point where the rear wheel stops rotating and begins to skid.


APPLY PRESSURE TO PEDAL TO SLOW DOWN OR STOP

©
CAUTION: Before riding, make sure that the brake is working properly. If it is not working properly, have the bicycle checkedby your dealer before you ride it.

## Adjusting your coaster brake

Coaster brake service and adjustment requires special tools and special knowledge. Do not attempt to disassemble or service your coaster brake. Take the bicycle to your dealer for coaster brake service.

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 (actually, there are other designs, but they are seldom seen in the US anymore): 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 (Shown) is like the valve on a car tire. To inflate a Schraeder valve tube, just 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.

The Presta (Shown) has a narrower diameter and is only found on bicycle tires. To inflate a Presta valve tube using a Presta headed bicycle pump, remove the valve cap; unscrew (counterclockwise) the valve stem lock nut; and push down on the valve stem to free it up. Then push the pump head on to the valve head, and inflate. To inflate a Presta valve with a gas station air hose, you'll need a Presta adapter (available at your bike shop) which screws on to the valve stem once you've freed up the valve. The adapter fits the end of the air hose fitting. To let air out of a Presta valve, open up the valve stem lock nut and depress the valve stem. Always close the valve stem lock after inflation.

## Shraeder Valve



## Presta Valve



BICYCL ASSEMBLY

Then test the brakes and practice using them at low speed in a large and level area that is free of obstruction.

When correctly used, the brake system is very effective. But, if you apply the coaster brake too strongly you may loose traction in the rear wheel putting the bicycle into a slide.

Always try to brake while going in a straight line. Apply brakes earlier with less pressure in the following conditions: wet pavement, sand, gravel, leaves, or if you need to brake while turning. To reduce the chance of skidding apply brakes intermittently.

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 too wide. Do not touch coaster brake after used in high speed situations. Coaster brake will get hot and may cause a burn.

## Front Fender Installation

The front and rear fenders need to be attached to your Cruiser before riding. All the hardware is in place, you will only have to loosen the hardware to mount the fenders and re-tighten. Check to assure that the fender is centered between the forks and not rubbing, or close to rubbing the tire anywhere. Use a wrench to tighten the nut at the top of the fork, the tighten the screws using a screwdriver on both sides of the fork legs at the bottom. The fender should be secure and not rub the tire when spun.


Remove the nut at the top rear of the fork as indicated by the arrow. Place the front fender over the wheel and between the fork legs.


Remove the screws at the bottom of the fork legs, behind the axle nut on each side of the fork legs.


Slide the mounting tab on the top of the fender over the bolt where the nut was previously removed.


Position the fender support rail on the outside of the fork leg and line up the slot in the rail with the hole in the fork leg. Reinsert and hand tighten the screw, repeat this for the other side


Replace the nut and hand tighten


Replace the nut and hand tighten

## BICYCLE ASSEMBLY



## Rear Fender Installation

The front and rear fenders need to be attached to your Cruiser before riding. All the hardware is in place, you will only have to loosen the hardware to mount the fenders and re-tighten.


The rear fender is already attached at two points to your Cruisers frame. You only need to secure the rails from the rear of the fender to the rear dropout.


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Check to insure that the fender is centered over the tire and does not rub, or is not close to rubbing when spun. Tighten the screws using a screwdriver.


Remove the screws just behind the axle nuts on both sides of the rear wheel.


NOTE: For men's model please secure the rails from the rear of the fender to the rear of seat stay.


Place the slot on the support rail over the hole in the dropout, reinsert and hand tighten the screw. Repeat for the other side.

CAUTION! As always with a new bike, and after making changes or repairs, take a careful test ride noting any potential issues. If you are unsure about the safety of your bike you should always take it to a qualified mechanic and have then do a thorough check.

## Repair and Service

©
WARNING: Inspect the bicycle frequently. Failure to inspect the bicycle and to make repairs or adjustments, as necessary can result in injury to the rider or to others. Make sure all parts are correctly assembled and adjusted as written in this manual and any "Special Instructions".

Immediately replace any damaged, missing, or badly worn parts.
Make sure all fasteners are correctly tightened as written in this manual and any "Special Instructions". Parts that are not tight enough can be lost or operate poorly. Overtightened parts can be damaged. Make sure any replacement fasteners are the correct size and type.

If your frame is aluminum, inspect the bicycle frame carefully and frequently. Aluminum frames can develop very small cracks due to stress, severe shocks, etc. If you see any small cracks, stop riding the bicycle. Have the frame inspected by a qualified professional at a bicycle service shop before riding the bicycle again.

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

## Rear Wheel/Chain Adjustment

Maintenance: The chain must be at the correct tightness. If too tight, the bicycle will be difficult to pedal. If too loose, the chain can come off the sprockets.

WARNING: The chain must remain on the sprockets. If the chain comes off the sprockets, the bike will not operate.

When the chain (1) is at the correct tightness, you can
 pull it one-half inch (2) away from a straightedge (3) as shown.

## BICYCLE ASSEMBLY

## TIRE REMOVAL

1 Let the air out of the tire by depressing the valve core (the little pin in the centre of the valve stem opening).
2 Separate the tire bead from the sides of the rim by pressing with your thumbs. Work your way around the tire on both sides to be sure that the beads of the tire are not sticking to the rim. (Figure A)
3 Stand the wheel up on a firm surface with the valve stem on the bottom and grasp the upper part of the tire with both hands. Try to roll the tire off the far side of the rim.

4 With the wheel standing as in Figure 3, use bicycle tire tools or spoon handles with rounded ends (at least two - preferably three) to lift the bead on one side of the tire off the rim. Be careful not to pinch the inner tube between the tire tools and the tire bead or rim. Once you have got the bead off for about one fourth of the circumference of the tire using the tools, the rest can usually be pulled off by hand.

5 With the bead on one side of the tire completely off the rim, you can now pull the inner tube out from between the tire and rim everywhere except in the area of the valve stem.
6 It should now be easy to pull the tire the rest of the way off the rim. Start at the side of the wheel opposite the valve stem and simply lift the bead of the tire up over the side of the rim and pull it off.

FIGURE A
Press with thumbs to separate tire bead. Continue around entire rim until the bead is completely separated.

FIGURE D
Rim strip protects inner tube from spoke ends.

FIGURE F Use thumb to press valve stem through hole in rim. Make certain valve stem is straight.


## Inspection of Bearings

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

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

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

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

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

## Lubrication / Maintenance

## WARNING: Do not over lubricate. If oil gets on the wheel rims or the brake shoes, it will

 reduce brake performance and a longer distance to stop the bicycle will be necessary. Injury to the rider or to others can occur.The chain can throw excess oil onto the wheel rim. Wipe excess oil off the chain.
Keep all oil off the surfaces of the pedals where your feet rest.
Using soap and hot water, wash all oil off the wheel rims, the brake shoes, the pedals, and the tires.
Rinse with clean water and dry completely before you ride the bicycle.


Tires
Maintenance Frequently check the tire inflation pressure because all tires lose air slowly over time. For extended storage, keep the weight of the bicycle off the tires.

A WARNING: Do not ride or sit on the bicycle if either inner tube is under inflated. This can damage the tire and inner tube. Do not use unregulated air hoses to inflate the inner tubes. An unregulated hose can suddenly over inflate bicycle tires and cause them to burst.

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

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

## Repair and Service

## WHEELS

## 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 rage 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 round. If wheels are not straight, they will need to be adjusted. This is quite difficult and is best left to a bicycle specialist.

## 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, bicycle specialist best handles spoke repairs.

## 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.


Using a light machine oil (20W) and the following guidelines, lubricate the bicycle:

What
When
Pedals
every six months

Chain
every six months

How
Put four drops of oil where each pedal axle goes into the pedal.

Put one drop of oil on each roller of the chain. Wipe all excess oil off the chain.

## Lubrication and Adjustment - One Piece Cranks

To adjust the free play in a one piece type bottom bracket, loosen the locknut on the left side by turning it clockwise and tighten the adjusting cone counter-clockwise using a screwdriver in the slot. When correctly adjusted, re-tighten the locknut counter-clockwise.

1) Remove the chain from the chain wheel.
2) Remove the left pedal by turning the spindle clockwise.
3) Remove the left side locknut by turning it clockwise and remove the keyed lock washer.
4) Remove the adjusting cone by turning it clockwise with a screwdriver.

5) Remove the left ball retainer, slide the crank assembly out of the frame to the right and remove the right ball retainer. Clean and inspect all bearing surfaces and ball retainers, and replace any damaged parts. Pack the ball bearings retainers with grease, then re-assemble in the reverse of the above procedure.

## Adjustment - 3 Piece Cranks



Maintenance: Both Crank Arms were tighten to the Spindle at the factory. After riding the bicycle the first few times make sure the crank arms have not loosened. If either Crank Arm has loosened during this "break-in" period re-tighten the Crank Arm Nut or have it tightened by a bicycle service shop. Frequently check the tightness of the crank arms. If loose tighten both Crank Arm Nuts or have them tightened by a bicycle service shop.

WARNING! If you ride the bicycle with a loose crank arm the crank arm may fall off while riding causing injury. A loose crank arm may also cause damage to spindle.

WEAR A HELINET WHEN YOU RIDE
Fing
Your purchase includes the following warranty which is in lieu of all other expressed warranties. This warranty is extended only to the initial consumer
purchaser. No warranty registration is required. This warranty gives you specific legal rights and you may have other rights which vary from state to state.
The entire frame is guaranteed against faulty materials and workmanship for as long as the initial consumer purchaser has the bicycle, subject to the
conditions of the warranty listed below. If frame failure should occur due to faulty materials or workmanship during the guarantee period, the frame will
be replaced. For frame replacement under this Hyper Bicycles Warranty, contact us with the Model and serial number, date of purchase, store where
purchased, and the nature of the failure, at service@hyperbicycles.com.

## PURCHASE RECORD CARD

## . Fill in immediately and send in as a record of your purchase. $\triangle$ Record Serial Number and retain in designated spot in front of this Manual.

Owner's Name: $\qquad$
Address: $\qquad$
Date Purchased: $\qquad$ Place of Purchase: $\qquad$
Model Name: $\qquad$
Wheel Size: $\qquad$ Color: $\qquad$
Serial Number:
(ALSO RECORD AND RETAIN SERIAL NUMBER IN DESIGNATED SPOT IN FRONT OF THIS MANUAL)


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