





# Owners Manual

Read and keep this manual.

Patented


Copyright 2007 All Rights Reserved

 The following manual is provided to assist in the assembly, maintenance, service, safe operation, and warranty of the Connect Cycles Child Bike. Failure of the owner or operator to read, understand and follow everything contained in this Owner's Manual can result in serious personal injury and death. Proper assembly, maintenance, and operation of the Connect Cycles Child Bike and adult bike is your responsibility. We recommend that you consult a bicycle specialist if you have any doubts or concerns as to your experience or ability to properly assemble, maintain or operate this product. To reduce risk of injury to adult and child rider, the Connect Cycles Child Bike must be properly fitted and adjusted to the adult bike and in good safe operating condition at all times. The adult and child rider is responsible to learn and understand the safe operation of the Connect Cycles Child Bike. Each rider must know, understand, and comply with all appropriate vehicle, bicycle, and traffic laws and also the rules of safe, common sense bicycling.

<p><b>Requirements</b></p> <p><b>Adult Bike</b></p> <ul style="list-style-type: none"> <li>- Minimum tire diameter 25" (635mm)</li> <li>- Seat post diameter 1" (25.4mm) - 1.25" (31.8mm)</li> </ul> <p> Do not use on seat post diameters smaller than 1" (25.4mm) or failure may occur, which can cause serious injury to riders.</p> <ul style="list-style-type: none"> <li>- Use of steel seat post is recommended.</li> <li>- No accessories or equipment (racks, etc.) on rear that interfere with tow bar operations.</li> </ul> <p><b>Adult Rider</b></p> <ul style="list-style-type: none"> <li>- Rider of tow bicycle must be an adult.</li> <li>- Adult rider must have good bicycle riding ability and skills.</li> </ul>	<ul style="list-style-type: none"> <li>- Adult rider must weigh at least twice that of child rider.</li> <li>- Adult rider must wear a properly fitted and approved bicycle helmet.</li> </ul> <p><b>Child Rider</b></p> <ul style="list-style-type: none"> <li>- Maximum child weight of 75 pounds.</li> <li>- Child rider must have good basic bicycle riding skills.</li> <li>- Child rider must be alert at all times keeping hands on handlebars, feet on pedals, and stay seated.</li> <li>- Child rider must wear a properly fitted and approved bicycle helmet.</li> </ul> <p><b>Tools Required for Assembly</b></p> <table> <tr> <td>2 Adjustable Wrenches</td> <td>1 Wire Cutter</td> </tr> <tr> <td>1 Flat Head Screwdriver</td> <td>1 Pliers</td> </tr> </table> <p>Metric Allen Set</p>	2 Adjustable Wrenches	1 Wire Cutter	1 Flat Head Screwdriver	1 Pliers
2 Adjustable Wrenches	1 Wire Cutter				
1 Flat Head Screwdriver	1 Pliers				


## Child Bike Assembly (See corresponding numbered illustrations)

**1 Handlebar and Stem** Insert handlebar stem **A**, with oval hole facing forward, into head tube ensuring all cables are free of tangles and front forks are facing forward. Lock pin **B** must be in the out position before installing handlebar stem. With handlebar stem installed, align front forks forward and push lock pin in by hand to make sure lock pin functions correctly.

 Lock pin must push easily in and out all the way flush to receiver face **C** in order to function properly. Ensure handlebar stem minimum insertion mark **D** is not showing.


Tighten stem bolt **E**. To readjust handlebar stem height, loosen stem bolt three or four turns and tap bolt. Readjust and tighten. Adjust handlebars to desired position and tighten handlebar clamp bolts **F**.

**2 Seat** Insert seat post into bike frame, adjust height and tighten bolt **G**.

 Seat post must be inserted so minimum insertion mark **H** does not show.

Adjust tilt of seat by loosening bolt **I**, tilt up or down and tighten.

**3 Pedals** Locate pedal marked **R** (right) and start into chainwheel side crank arm, turning pedal clockwise by hand to avoid stripping threads. Locate pedal marked **L** (left) and start into opposite crank arm, turning pedal counter-clockwise by hand to avoid stripping threads. Tighten pedals secure with wrench.

 Never ride with loose pedals.

**4 Chain** Turn bicycle upside down, resting it on seat and handlebars. Loosen rear wheel axle nuts and coaster brake arm clip. Move wheel forward to loosen and backward to tighten chain. Correctly adjusted, chain should have approximately **10mm** of vertical movement when checked in center between chainwheel **J** and rear sprocket **K**. Center wheel in frame, make sure training wheel lock bracket tab **M** is fitted into axle slot and tighten axle nuts and brake arm clip secure.

**5 Front Wheel** Install front wheel making sure retaining washer **N** is hooked into holes in fork. Make sure wheel is centered between forks and tighten axle nut.

**6 Training Wheels** Install wheel bracket **O** into lock bracket **M** and tighten plastic knob **P**. Install training wheel **Q** onto wheel bracket, hold bike vertical, adjust bottom of wheel to 1/2" (1.25cm) above ground and tighten bolt **S**. Repeat assembly on other side.

## 7 Brakes

**Front Brake Warning:** Brake cable housing must first be inserted through hole in reflector / front brake cable bracket to position brake cable properly from hitting the receiver when turning **7.0**. Open brake lever **T** and place cable nipple end **U** into lever and then close lever. Secure ferrule end of cable **V** into cable adjusting barrel **W**, **7.1**. Thread other end of brake cable through cable adjusting barrel **X**. Loosen cable anchor nut **Y** and thread brake cable through cable anchor **7.2**. Squeeze the brake arms together against the rim of the wheel. Loosen brake shoe nuts **Z** and turn the brake shoes until they match the angle of the rim. Tighten brake shoe nuts securely. Pull down on the end of cable with pliers, hold taut and securely tighten cable anchor nut. Spin the wheel making sure the brake shoes do not hit the rim and they are an equal distance from the rim on both sides. Test brake lever 20–25 times to take care of any initial cable stretch.



Keep brakes properly adjusted and in good working condition at all times.  
Failure to secure tight all brake hardware could result in brake failure and injury.

**Back Brakes** Coaster brake is operated by applying back pedal pressure and allows rider to coast without pedaling, if desired.



Make sure brake arm is correctly attached to chain stay with brake arm clip. Brake will not operate otherwise. Do not ride bicycle until all brakes are functioning properly. To test, apply brakes while trying to push bike forward to make sure they stop the bicycle.

### Tow Bar Installation

**8** Remove adult bike seat post. Determine seat post diameter and shim (s) if needed. **AA** Small Shim **BB** Large Shim. Insert seat post through tow bar, facing gap in shim(s) to rear if used, and reinstall seat post.



Seat post must be inserted a minimum distance **CC** into adult frame and seat post bolt must be tightened correctly to prevent risk of injury to riders.

Position tow bar close at frame, align to rear of adult bike and tighten bolts.



Bolts **DD**, **EE** and **FF** must be tightened to prevent risk of injury to riders.

**9** Install **8mm QR**. See step 12 to operate Quick Release. Determine extended tow bar length. Hole **GG** 14"-16" child bike, hole **HH** 18"-20" child bike. Slide outer tube over inner tube, install pin **II** and latch.

**10** Attach tow bar to child bike by lifting coupler **JJ** end of tow bar in one hand and lifting front of child bike with the other hand to position **10.1**. Slide coupler down, over receiver **KK** engaging them at curved ears **10.2**. Lower both tow bar and child bike, keeping upward force on child bike, until fully engaged **10.3**. Properly engaged, child bike front wheel is held above ground and coupler and receiver holes aligned for Quick Release installation.

Child bike front wheel must be 3"-5" (8 cm-13 cm) above ground **LL** to prevent risk of injury to riders. See wheel height adjustment **13**.



**11** Insert Quick Release **MM**, install adjusting nut **NN** and lock.

**12** **6mm / 8mm Quick Release Operation** To properly lock, place lever in open position **OO** and hold, then Hand Tighten adjusting nut until it stops. Pivot lever to closed position. Halfway closed, there must be firm resistance for proper locking. If resistance is not firm, open lever and Hand Tighten adjusting nut clockwise. Pivot lever all the way to closed position **PP** and lock.

**13** With tow bar attached, adjust front wheel height by loosening, do not remove, bolts **QQ**. Lift front of child bike up by handlebars to raise front wheel height and push down on front of child bike handlebars to lower front wheel height. Adjust to correct wheel height and tighten bolts **QQ**, **13.1**. After receiver is properly adjusted disconnect tow bar from child bike and tighten jam bolt **RR**, **13.2**.





Bolts **QQ** and **RR** must be tightened to prevent risk of injury to riders.

**14** Slide to stored position, hole **SS**. Insert pin, and latch. Insert Quick Release into tow bar coupler for storage. Warning, Excessive Quick Release clamping force may damage coupler end by collapsing it. Loosen left rear axle nut (right side optional). Place storage bracket **TT** between bike frame and axle nut **UU**, facing rear, Hand Tighten Only. Fold tow bar down to side, align storage bracket **VV** to receive tow bar, tighten rear axle nut and storage bracket assembly.

## Operating Instructions

### Using Tow Bar

1. Unclip tow bar from stored position.
2. Remove pin, extend to proper length, insert pin and latch.  
 Failure to place safety latch over end of pin can result in pin coming loose and can cause serious injury to riders.
3. Remove Quick Release from coupler end of tow bar.
4. Hold tow bar coupler end in one hand and lift front of child bike with other hand. Align handlebars forward so that steering lock pin will insert freely, slide coupler down over receiver, engaging them at curved ears. Lower both tow bar and child bike slowly, keeping upward force on child bike, until fully engaged.

 Lock pin must insert freely or damage to steering lock system could occur.

5. Insert Quick Release and lock.


### Storing Tow Bar

1. Remove Quick Release from coupler and receiver.
2. Hold tow bar coupler end in one hand and child bike in other hand. Lift both up, slightly pushing down on child bike until disengaged.
3. Insert Quick Release into coupler end of tow bar for storage.  
Excessive clamping force may damage coupler by collapsing it.
4. Remove pin, slide tow bar together, insert pin and latch.
5. Fold tow bar down to side and place into storage clip.

### Using Flip-Up Training Wheels

1. Loosen plastic knob.
2. Pull wheel bracket out away from lock bracket until clear.
3. Rotate wheel bracket up or down as desired.
4. Push wheel bracket back into lock bracket and tighten plastic knob.

#### Hand tighten firmly.

 Never use training wheels in the operational position (flipped down) when using the child bike with the tow bar attached as they prevent the child bike from leaning when cornering, and can cause serious injury to riders.

### Mechanical Safety Check

Carry out the following safety checks before every ride:

#### Tow Bar

- Ensure all nuts and bolts are properly tightened.
- Ensure all parts of tow bar have no damage or cracks.
- Ensure all moving parts in universal joint have no wear.
- Ensure safety pin and tow bar holes are not worn or damaged and that they fit together without excessive play.
- Ensure coupler and receiver function properly and steering lock pin inserts freely by hand and locks handlebars.
- Ensure Quick Release functions properly.
- Ensure storage clip functions properly.

#### Flip-UP Training Wheels

- Frequently check that plastic knobs are securely tightened.

#### Adult Bike

- Ensure seat post is not bent or cracked and is securely fastened into frame.
- Ensure front and rear brakes work properly.
- Ensure bike is in correct and safe working order. See adult bike Owner's Manual.

#### Child Bike

- Ensure head tube and frame of bike has no sign of damage.
- Ensure rear free wheel capability and brakes work properly.
- Ensure bike is in correct and safe working order.

#### Rider Safety Check

- Riders must wear properly fitted and approved bicycle helmets.
- Use only on smooth surfaces.
- Never exceed maximum child rider weight of 70 pounds.
- Do not ride on highways, in traffic, or on unsafe streets.
- Never exceed 15 miles per hour using tow bar.
- Never ride over bumps or curbs using tow bar.
- Avoid cornering near objects. Child bike will track closer to objects than adult bike.
- Never carry more than one child on child bike.
- Never use tow bar with a motorized bicycle or vehicle.
- Never use tow bar while carrying another child on adult bike.

- Adult rider must be thoroughly familiar with all operations and controls (steering, braking, and gears) of adult bike before using tow bar
- You must allow for greater starting and stopping distances due to extra length and weight of child rider and child bike.
- Adult rider must steady and securely hold adult bike upright before allowing child to mount child bike.
- Never use when child is tired. Child must be alert and capable of staying seated, keeping hands on handlebars and feet on pedals at all times.
- Adult and child rider must wear shoes that are securely fastened onto feet and that provide an adequate grip to pedals. Never ride barefoot or with sandals.
- Riding at night is dangerous and should be avoided. Only ride at night with approved lighted system and correctly positioned reflectors on both bikes.

### Riding With Tow Bar

Locate a safe, flat, and level riding area with no traffic to become safely familiar with operation and feel of towing the child bike. First, attach tow bar and ride without towing a child on the child bike. Note how both bikes turn, lean and feel while riding, stopping and starting. Note how child bike tracks closer when turning than adult bike and requires a wider turn, when close to objects, in order to clear objects. Continue to ride with child bike unoccupied until you feel confident with your ability to safely operate stopping, starting and towing the child bike.

Still in a safe area away from traffic, hold adult bike in upright position and allow child to mount child bike. You must always hold child bike steady when child gets on. Begin riding with the child at a slow pace and continue to ride until you are confident of both your abilities and the child's abilities to safely operate each bike with tow bar attached.

Practice starting and stopping. Distances required will be much different than when you are riding alone. You must allow for extra weight and length when stopping and starting. Learn and understand these differences before attempting to use tow bar in general riding situations. It is important to teach the child to use brakes only when instructed before attempting general riding situations.

Once you are confident of your abilities and the child's abilities to safely use tow bar you can then use it for more general riding situations. Never use tow bar if you have any doubts about your ability or the child's ability to handle general riding situations.

### Service and Maintenance



All parts of tow bar and bicycles are subject to stress and wear and may require replacement after extended use to prevent failure. If a problem is noticed, discontinue use until problem is corrected. Failure to correct a problem can cause serious personal injury to riders and death.

- Perform mechanical safety check before every ride.
- Look for scratches, cracks, bending and changes in color of metal or plastic which indicate fatigue or stress and replace worn parts.
- Break in period: All bolts, nuts, pins, and other components may stretch and require readjusting after first ten hours of use.
- Keep clean and free of dirt and water. Dirt and water can cause unit to wear prematurely and can cause corrosion which can reduce strength and life of the product.

### Limited Warranty

Connect Cycles warrants this product, to the original purchaser, to be free of defect in materials and workmanship for a period of one year from the date of purchase. This warranty is solely limited to the repair or replacement of defective parts and no transportation or labor is included.

This warranty does not apply to any product which has been improperly assembled, improperly maintained, subject to abuse or misuse, involved in accidents, or altered or repaired in any way. This warranty ceases when you rent, sell or give away the tow bar. Liability for consequential damages is excluded to the extent exclusion is permitted by law. This warranty gives you specific legal rights. Additional warranty rights may be provided by law in some areas.

To obtain warranty service, purchaser must return the defective components to the place of purchase or contact SEN Inc. at [www.connectcycles.com](http://www.connectcycles.com) for the repair or replacement, subject to the terms and conditions as described above.

