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cyclemorph Tandem Adapter OWNER'S MANUAL





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Thank you for buying the CycleMorph Tandem Adapter!

Tandem Adapter LLC is dedicated to helping people spend more time cycling together. We've tried to make this owner's manual as brief as possible so you can spend less time reading and more time on the road.

BEFORE USING THE TANDEM ADAPTER, READ AND UNDERSTAND THESE INSTRUCTIONS AND THE IMPORTANT WARNINGS ON PAGES 22-24.

- The Adapter must be professionally adapted to attach to the rear of a specific bicycle.
- Do not attempt to adapt the Adapter to your bike.
- In order to ensure the safety and enjoyment of the Adapter, a certified bicycle mechanic must perform this procedure.
- Once it is professionally adapted, **you can attach and detach the Adapter easily** in 10 minutes or less with no tools.

WARNINGS WARNINGS WARNINGS

THESE ARE IMPORTANT WARNINGS. MORE SPECIFIC BIKE & TANDEM WARNINGS IN REAR OF MANUAL.

1. Combined weight of BOTH riders must not exceed **350 pounds**.

Example:	Captain	= 175 pounds		Captain	= 200 pounds
	+ Stoker	= 125 pounds		+ Stoker	= 200 pounds
	==========			==========	
	Combined weight	= 300 pounds		Combined weight	= **400 pounds**

2. The Adapter is for most mountain, hybrid and comfort bikes.
   Do not attach to: **Road bikes, department store bikes, bikes with stamped rear dropouts, horizontal slide rear drop-outs or carbon fiber seat posts.**
   CHECK WITH YOUR LOCAL BIKE SHOP OR CALL US AND ASK ABOUT YOUR SPECIFIC BIKE.

3. Understand tandem riding and practice in a safe location before you ride in dangerous areas or in traffic.

4. Seat post must not be extended beyond minimum insertion line.

5. Make sure critical connection points are attached correctly before riding the Adapter.

6. In turns and while riding over humps, curbs or other high spots, adjust pedaling to avoid
   striking ground with either captain's or stoker's pedals. Also, for really big curbs, mind the captain's derailleur.

AN IMPORTANT NOTE

The Cyclemorph Tandem Adapter is just that…adaptable. Because it will work on literally millions of new and old bikes, the instructions on the pages that follow are general in nature.

However, some minor adjustments in procedure may be necessary for your particular bike. By way of example, your bike may require:

- A slight difference in the way the captain's bike derailleur dummy cable will be attached, especially on the down tube routings;
- A floating cable extender on the captain's bike derailleur cable, especially on top tube routings;
- A brake adjustment if you use disk brakes.

In all cases, the mechanic who sets up your bike will explain everything in detail, walk you through the process a couple of times, and make sure you understand exactly how everything works before he turns you loose.

You'll be delighted by how quickly you catch on and how soon you have the Adapter on and off your bike in just a few minutes. It really is that simple.

And so…

Here we go!

TAKE YOUR TIME, YOU WILL SAVE TIME

If your derailleur cable is on the **DOWN** tube, attach the Adapter following steps 1-17 on pages 7-22. Detach in reverse order

If your derailleur cable is on the **TOP** tube, attach the Adapter following steps 1-16 on pages 23-38. detach in reverse order.

VERY IMPORTANT

Make sure all cable housings are properly positioned in cable stops as you go.

This is the most common problem in attaching the Adapter!

1. Put captain's bike in the highest gear. This means the chain will go around the smallest chain ring on your rear wheel.

2. Undo rear brakes and spread brake arms open for easy wheel removal.



3. Un-do rear brake cable quick connect on captain's bike.

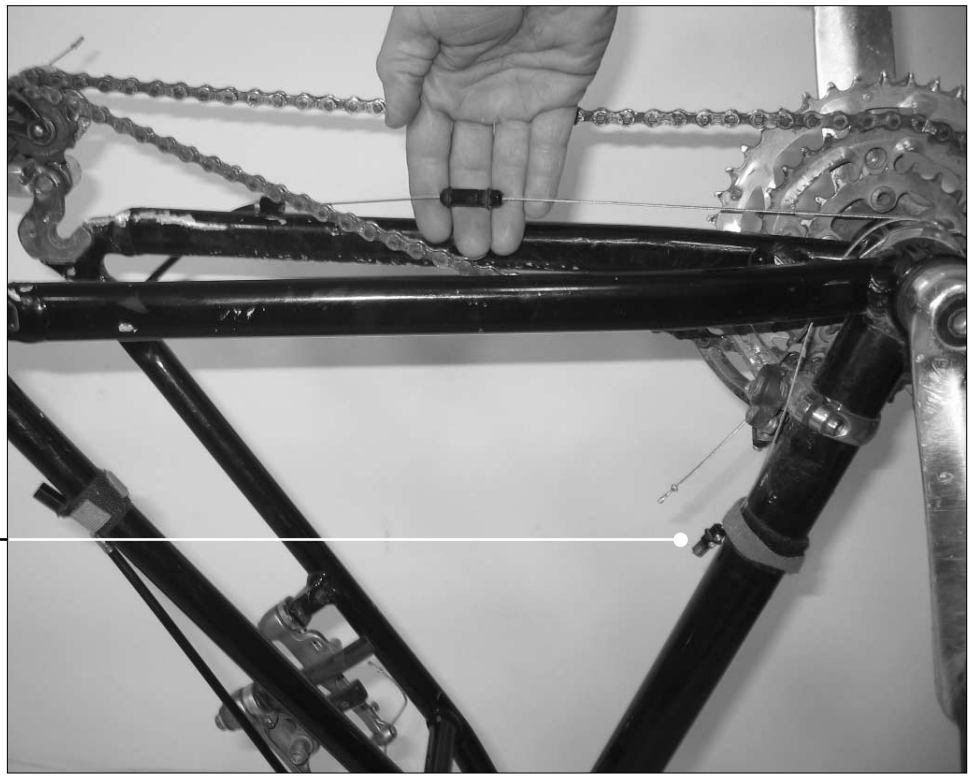


4. Turn bike over.

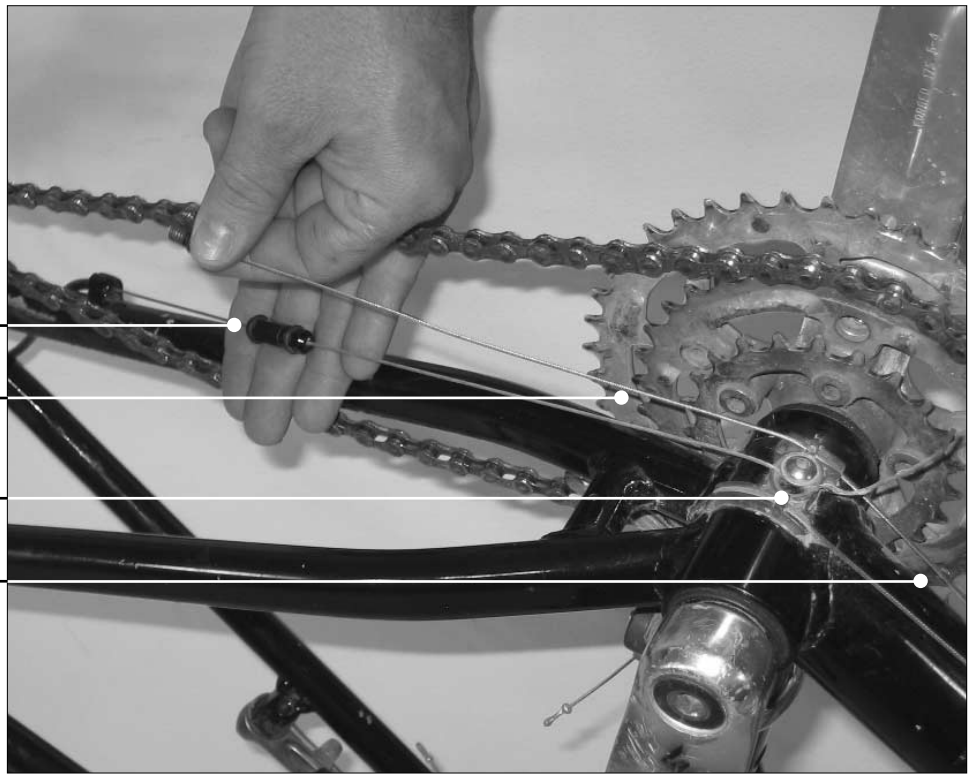
5. Remove rear wheel



6. Disconnect rear derailleur cable quick connect on captain's bike.



7. Attach captain's rear derailleur cable to the dummy cable that aligns the derailleur with the Adapter gear cluster.



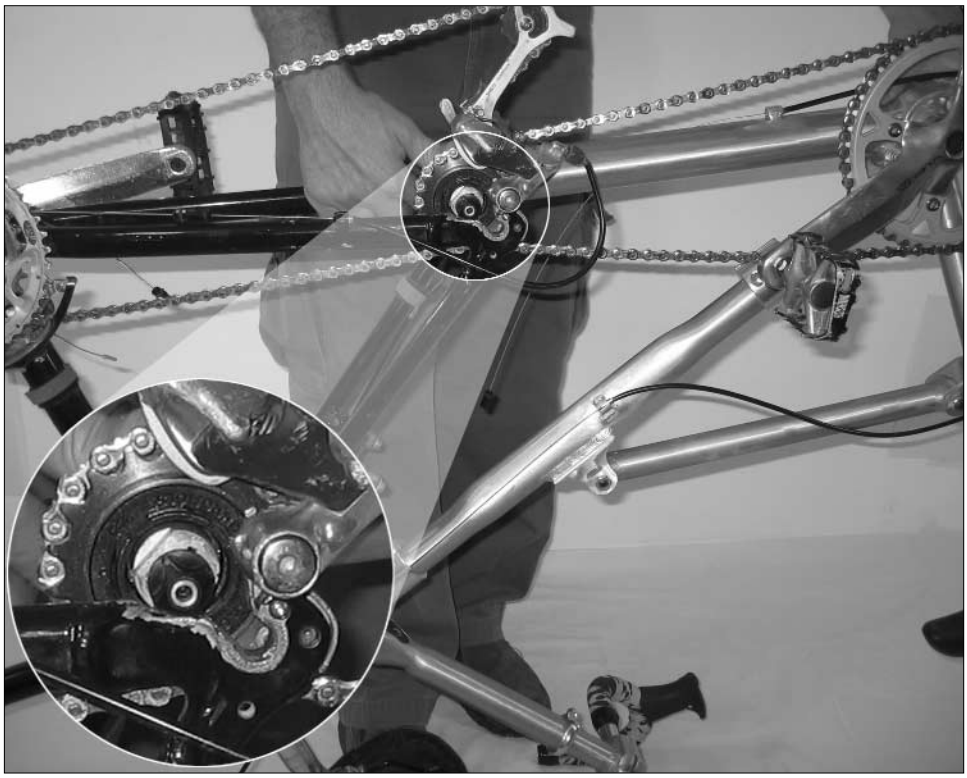
8. Let the Adapter's open captain's seat post clamp rest on the captain's seat post.



9. Insert gear cluster of Adapter into captain's bike rear drop-outs.

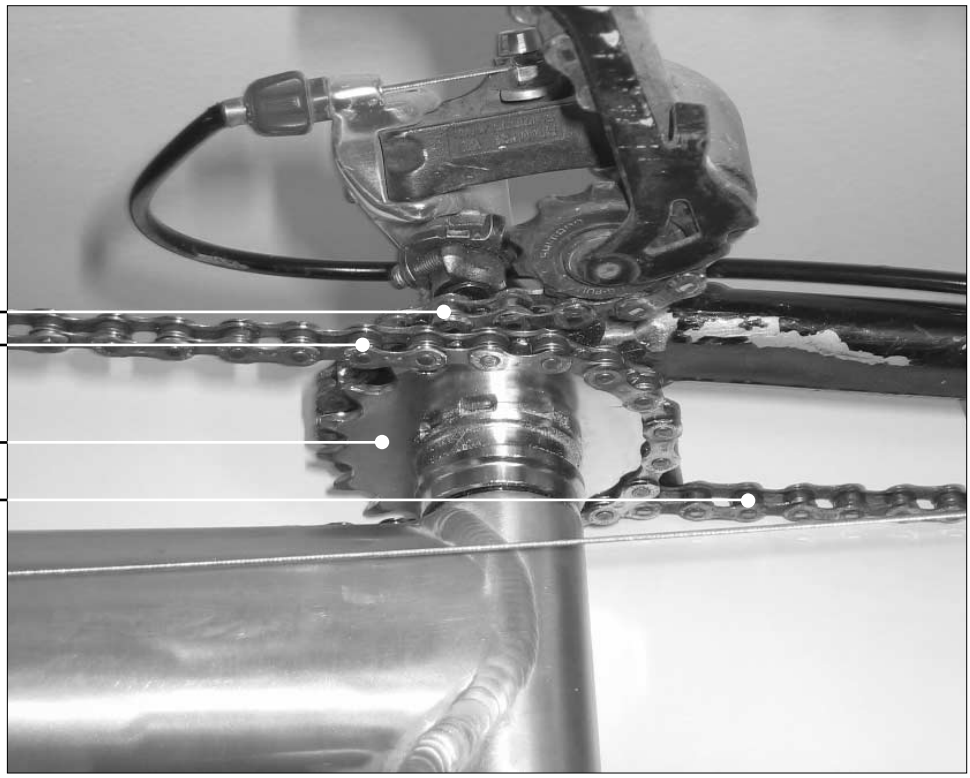
   It may be necessary to pick up on the captain's bike to let the gear cluster axle slide into the rear drop-outs.

   HINT: It may be easier if you place foot under seat to raise bike.



Inset: Adapter gear cluster axle slides into captain's bike rear drop outs.

NOTE:
The captain's bike chain will go around the outside chain ring of the Adapter's gear cluster assembly

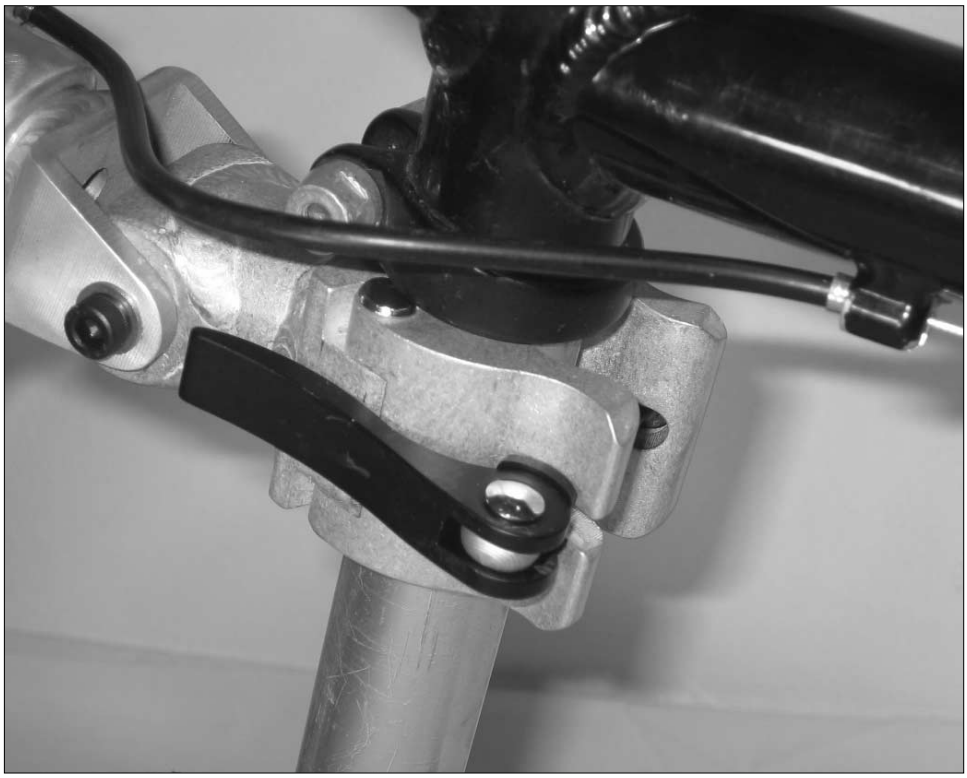


10. Tighten the quick release in the drop-outs.

    It is important that the quick release lever be positioned in such a way that the stoker will not hit it with his foot as he or she is pedaling.



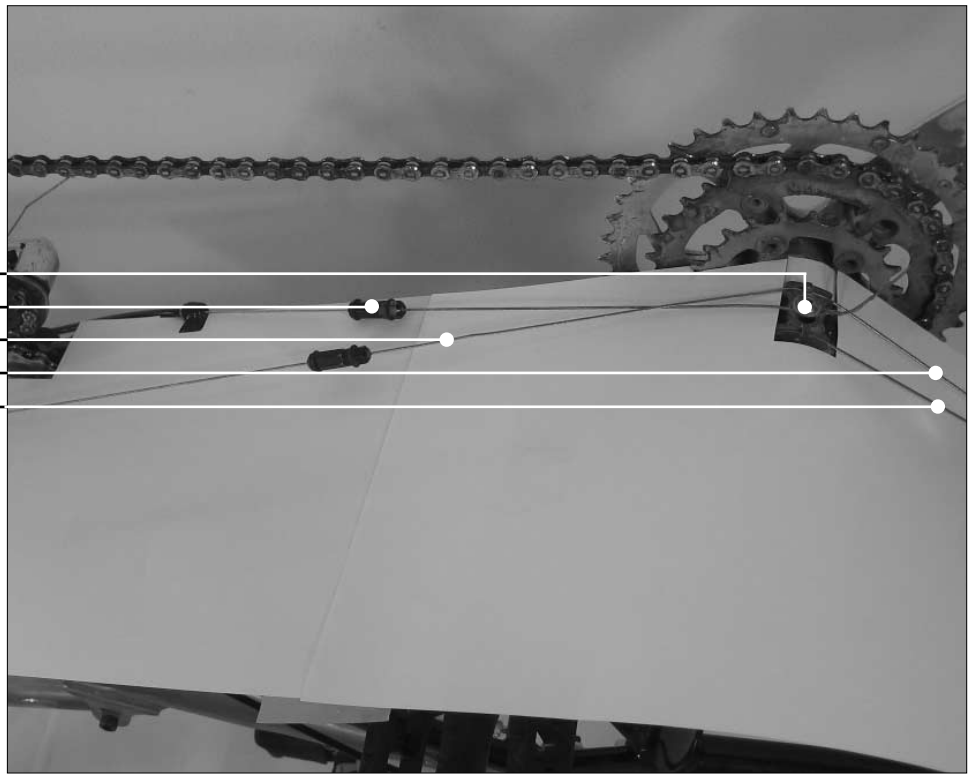
11. Close and tighten captain's seat post clamp onto the captain's seat post.



12. Attach captain's bike cable quick connect to derailleur cable extension on the Adapter so captain maintains control of rear derailleur.



NOTE:
Example cable routing for typical DOWN TUBE set up.



13 Put rear wheel on the Adapter and turn bike over.



14 Attach captain's bike cable quick connect to brake cable extension on the Adapter so captain maintains control of rear brake.

15. Close rear brakes on Adapter.



16. Stow captain's rear brake cable under Velcro tab.

    Pull brake cable out slightly to put tension on brake arms. This helps maintain brake cable in the stowed position.



17. Check critical points before riding.



1. captain's seat post clamp
2. gear cluster assembly quick release
3. rear wheel quick release
4. rear brakes
5. stoker stem
6. cable quick connects

1 Put captain's bike in the highest gear. This means the chain will go around the smallest chain ring on your rear wheel.

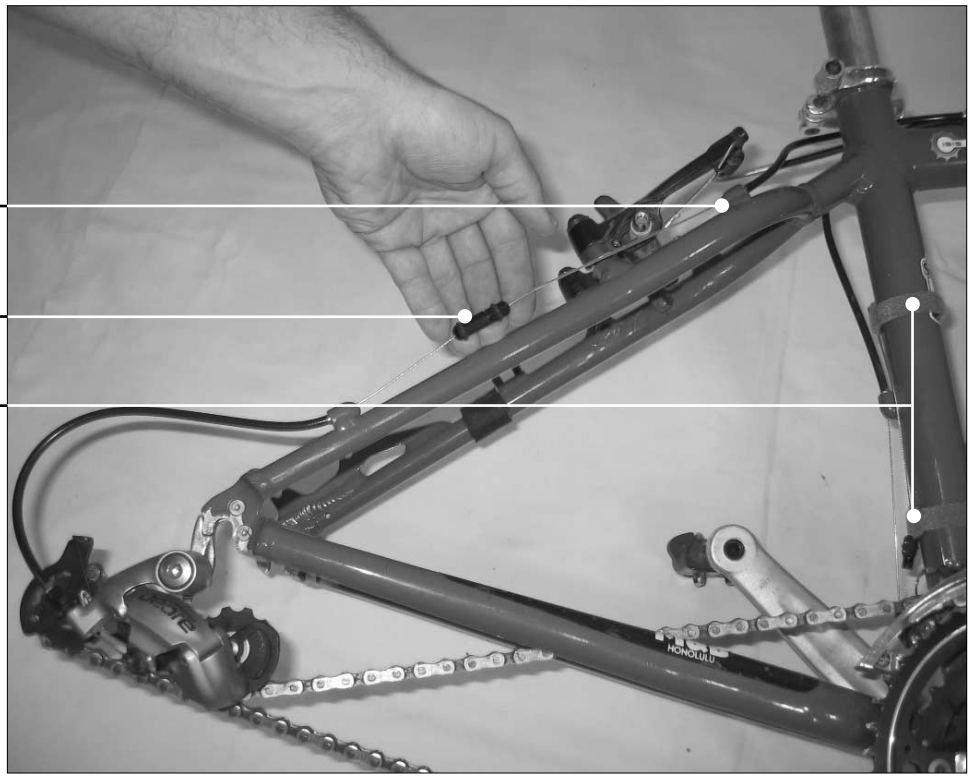
2 Undo rear brakes and spread brake arms open for easy wheel removal.



3 Undo rear brake cable quick connect on captain's bike.



4 Remove rear wheel and lay bike on side—derailleur and crank side up.



5 Disconnect rear derailleur cable quick connect on captain's bike and remove derailleur cable housing from cable stop.

6 Install captain's bike derailleur dummy cable, placing head of cable in cable stop (to align bypassed captain's bike derailleur with the Adapter gear cluster).



IMPORTANT WARNING! DO NOT LOSE THIS DUMMY CABLE! It is specific to your bike. Its length is determined by the bicycle mechanic who configures the Adapter to your bike. We suggest you store the captain's derailleur dummy cable under Velcro tabs on your bike (pictured here) or in an under-seat bag (not provided) when it is not being used.

7 Set captain's bike upside down.

8 Let the Adapter's open captain's seat post clamp rest on the captain's seat post.



9 Insert gear cluster of Adapter into rear drop-outs of captain's bike.

It may be necessary to pick up on the captain's bike to let the gear cluster engage with the rear drop-outs.

HINT: It may be easier if you place foot under seat to raise bike.



NOTE
The captain's bike chain will go around the outside chain ring of the Adapter's gear cluster assembly.



10 Tighten the quick release in the drop-outs.

It is important that the quick release lever be positioned in such a way that the stoker will not hit it with his foot as he or she is pedaling.

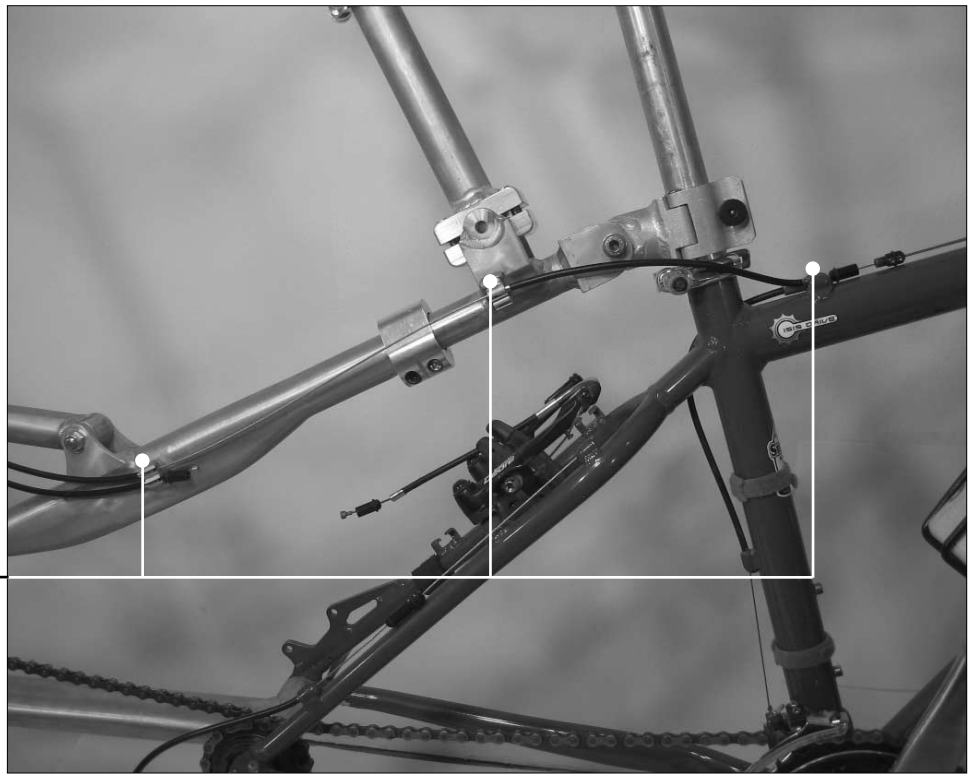


11 Close and tighten captain's seat post clamp onto the captain's seat post.



12 Put rear wheel on Adapter and turn bike over.

13 Make sure the Adapter brake cable extension ferrules are firmly seated in their cable stops, and attach the end of the cable to the captain's brake cable quick connect.



14 Close brakes on the tandem adapter.



15 Stow captain's brake cable end under Velcro tab.

Pull brake cable out slightly to put tension on brake arms. This helps maintain brake cable in the stowed position.



16 Make sure the Adapter's derailleur cable extension ferrules are firmly seated in their cable stops, and attach the captain's derailleur cable quick connect.

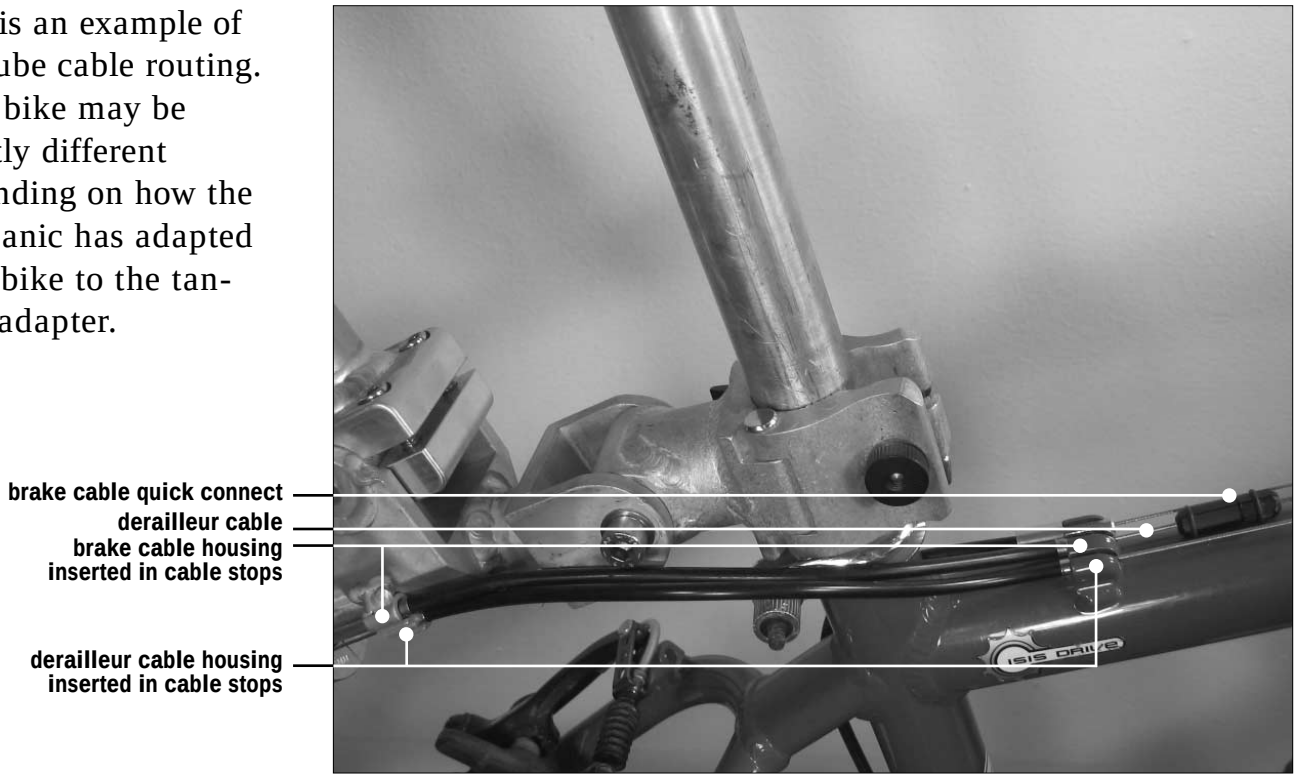


17 Check critical points before riding.

1. captain's seat post clamp
2. gear cluster assembly quick release
3. rear wheel quick release
4. rear brakes
5. stoker stem
6. cable quick connects



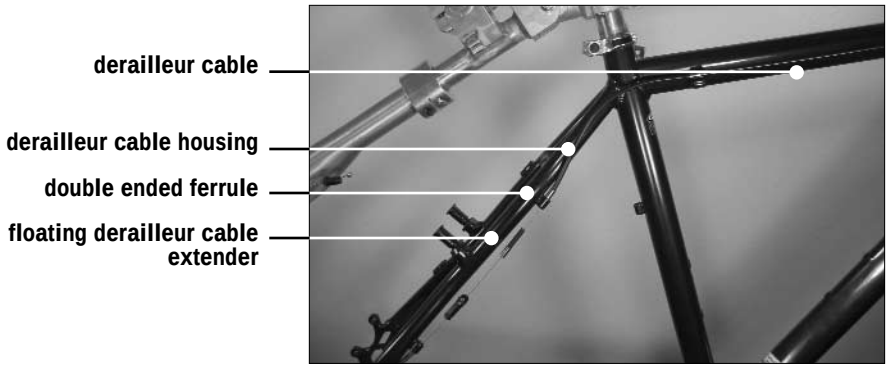
This is an example of top tube cable routing. Your bike may be slightly different depending on how the mechanic has adapted your bike to the tandem adapter.

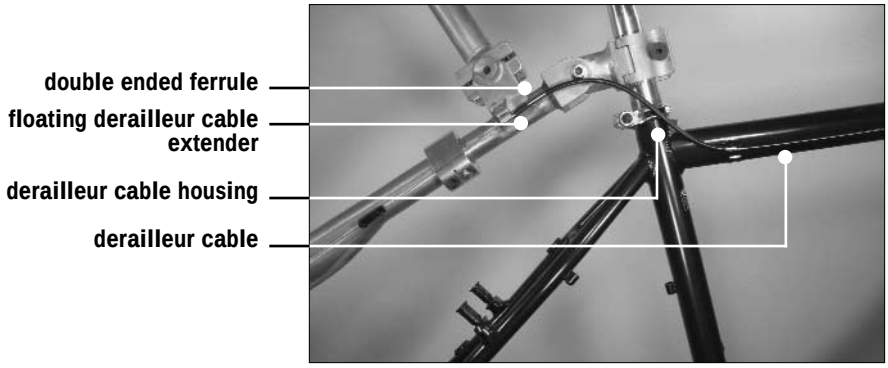


This is an example of top tube cable routing using a floating cable extender.

A floating cable extender is installed by the bike mechanic on the derailleur cable.

When routing derailleur cable through the cable stops, insert the floating cable extender in the double ended ferule in order to extend cable housing length.





WARNINGS WARNINGS WARNINGS

TERMS

Adapter: the CycleMorph Tandem Adapter you buy that, when assembled and attached to your primary bicycle, is called the stoker's bike.

The captain's bike: your primary bicycle that, when modified, will accept the Adapter.

The Tandem: the combined captain's and stoker's bikes ridden as a single unit.

Captain: the front rider, who steers, and controls the brakes and derailleur.

Stoker: the person who rides behind the Captain, on the Adapter's seat.

Dial in: to adapt to, and adjust, an Adapter to a captain's bike.

You have bought the Adapter to be attached to a captain's bike you already own and have ridden. That bicycle came with warnings and cautionary notes specific to it and to bicycling in general: the attachment of the Adapter to it in no way negates or lessens the importance of those warnings and cautionary notes.

Your new Adapter can be attached to a wide variety of bicycles, and it is impossible for Tandem Adapter LLC to address all the warnings and safety issues specific to each of these. If you have questions regarding the use of the Adapter with your intended captain's bike, please address these concerns to the IBD where you bought it, or with Tandem Adapter LLC online at www.cyclemorph.com.

In addition to the warnings and cautionary notes that apply to your intended captain's bike, Tandem Adapter LLC adds some that are specific to the Adapter and to tandem riding in general.

- Tandem Adapter LLC sells the CycleMorph Tandem Adapter **ONLY** through bicycle stores. Assembly of the Adapter, and dialing it in to a specific captain's bike **MUST** be done by a professional bicycle mechanic, who will teach you how to attach and detach it.
- If you change your captain's bike, or have bought your Adapter second-hand, the Adapter MUST be dialed in to the new captain's bike by a professional bicycle mechanic. Faulty dialing in–or dialing in to the wrong kind of bicycle–will **VOID OUR WARRANTY**, and worse, can render the Tandem dangerous, with resulting serious injuries to both captain and stoker. **DO NOT DIAL IN AN ADAPTER TO A CAPTAIN'S BIKE YOURSELF!**
- **DO NOT CHANGE COMPONENTS** of either your captain's bike or the Adapter yourself. Installing parts not intended for Tandem use will **VOID THIS WARRANTY**, and worse, can lead to parts failure and serious injury to both Captain and Stoker.
- **DO NOT** modify the Adapter frameset in any way, including sanding, drilling, filing, removing redundant retention devices, or by any other technique. Such modifications may cause your frame to fail, and will **VOID OUR WARRANTY**.
- **DO NOT ATTACH** the Adapter to a captain's bike with a carbon fiber seat post. The added stress of a stoker's weight can cause a carbon fiber seat post to shatter, with resulting serious injury to both Captain and Stoker. Our **WARRANTY** will **NOT** apply to a failure of this nature.
- This Tandem is not intended to be raced, or ridden over excessively rough terrain. **WARRANTY IS VOID** if product failure occurs during trick riding, jumping, downhill racing, or over excessively rough cross country terrain.
- All repairs and adjustments to the Adapter and captain's bike must be made by a professional bicycle mechanic.
- The **MAXIMUM COMBINED WEIGHT** of Captain and Stoker is **350 pounds.**
- The Adapter may be dialed in to a full suspension captain's bike **ONLY** if a professionally trained bicycle mechanic has determined that this is appropriate for the particular make and style of bike.
- Due to the extra weight of the Stoker, it is **CRITICAL** that the wheels and tires of your captain's bike are properly maintained and the tires fully inflated to the normal operating pressure embossed on the sidewalls of your tires.
- Due to added demand placed on brakes by the extra weight of the Stoker, it is **CRITICAL** that your brakes are in top condition and properly adjusted. Do **NOT** use with hydraulic brakes!
- You will probably need to adjust the seat and seat post, and the handlebar length and elevation, when you change Stokers. When doing this, **ALWAYS DOUBLE CHECK** before riding to make sure all tightening mechanisms are properly tightened.
- Always adjust the height of the Adapter's seat so the Stoker can keep both feet on the pedals at all times. However, under no circumstances allow the seat post to project from the frame beyond the Minimum Insertion or Maximum Extension mark etched into the seat post.

Before riding, always:

- **CHECK** to be sure that the seat post quick release binder is closed and tight;
- **CHECK** to be sure that the freewheel hub is firmly seated in the captain's bike rear drop outs, and the quick release binder is tight;
- **CHECK** to make sure that the brake and derailleur cables have been routed to the Adapter, that the captain's derailleur dummy cable is tensioned, and that the captain's brake cable is properly stowed;
- **CHECK** to make sure that the Adapter's brake assembly is closed.
- We **STRONGLY** recommend that both Captain and Stoker wear helmets.
- In turns and while riding over a hump in a trail or other high spot, **ADJUST PEDALING** to avoid striking the ground with either the Captain's or Stoker's pedal.
- When riding in low visibility conditions, the Stoker especially should wear light, bright, and reflective clothing. The CycleMorph Tandem Adapter is equipped with a full set of reflectors: keep them clean and in position, and add a tail light (purchased separately) for low-visibility-condition riding.
- **DO** protect the Adapter's derailleur during storage. We recommend hanging the Adapter in a protected space, with the derailleur not touching anything.

Finally, **TANDEM BICYCLES HANDLE DIFFERENTLY THAN SINGLE BICYCLES**. If you are a new tandem rider, we **STRONGLY** recommend you and your Stoker practice starting, riding, turning, braking and stopping in an area free of traffic hazards prior to riding on the road or in traffic. For tips on Tandem riding, please visit the following website:
www.sheldonbrown.com/tandem/index.html and click on
Forbeginner/intermediate tandemists near the top right side of the screen.

