

Cruzbike V20 Complete 2019

ASSEMBLY GUIDE

Please review all of these instructions prior to assembly and riding.

Updated December 6, 2018



Welcome to Cruzbike

You've joined a growing movement in cycling. We're so glad to have you here. [We joke that bonding with a Cruzbike is like falling in love.](#) And it is. The discovery and learning, the building trust and unfolding adventure of joy-driven cycling really is a romance. Assembling your V20 following the steps in this guide is the first step in that romance. Get ready to savor it.

We're here to support you along the way.

What you'll need

These instructions don't require any special bicycle tools. A small tool kit is included with your V20 Complete. It has everything you might need except for:

Scissors/clippers

Disposable gloves

Grease or Vaseline

A well-lighted space

Drop-cloth to protect your flooring and make it easier to find any nuts dropped during assembly.

A stand like the [RAKK Bike Storage Stand](#) or a friend is helpful as well

Note: The tool kit includes allen wrenches and allows you to build additional allen and socket wrenches and screwdrivers by inserting parts into the buildable wrench tool.

Estimated time to assemble: 2-3 hours for a novice, 45 minutes for an experienced mechanic.

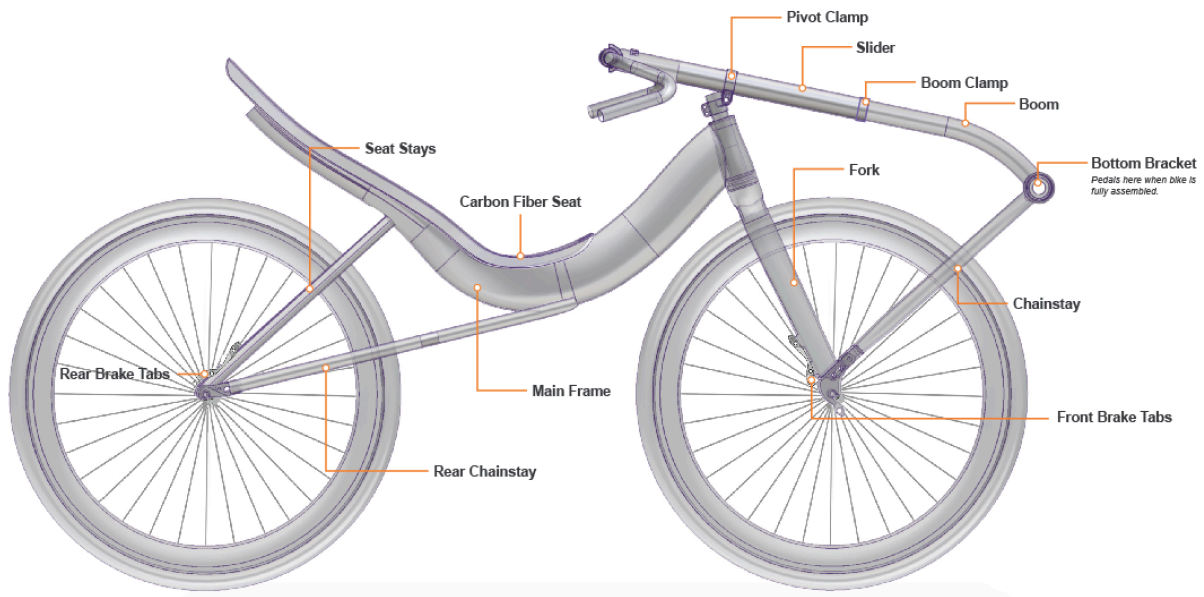
Fit Note: Proper fit on a Cruzbike will greatly enhance your riding experience, optimizing both comfort and performance. We've put together tips for Cruzbike fit and adjustment on our website [here](#) that will help you get started. We've also included a 10x10" piece of extra foam for you in the box just in case you need it for optimizing your seat or headrest comfort.

Additional Resources

Check out the V20 Complete Assembly Video [here](#).

Check out the Cruzbike Performance Bike (V20 and S40) Fit and Adjustment Video [here](#).

Anatomy of a V20

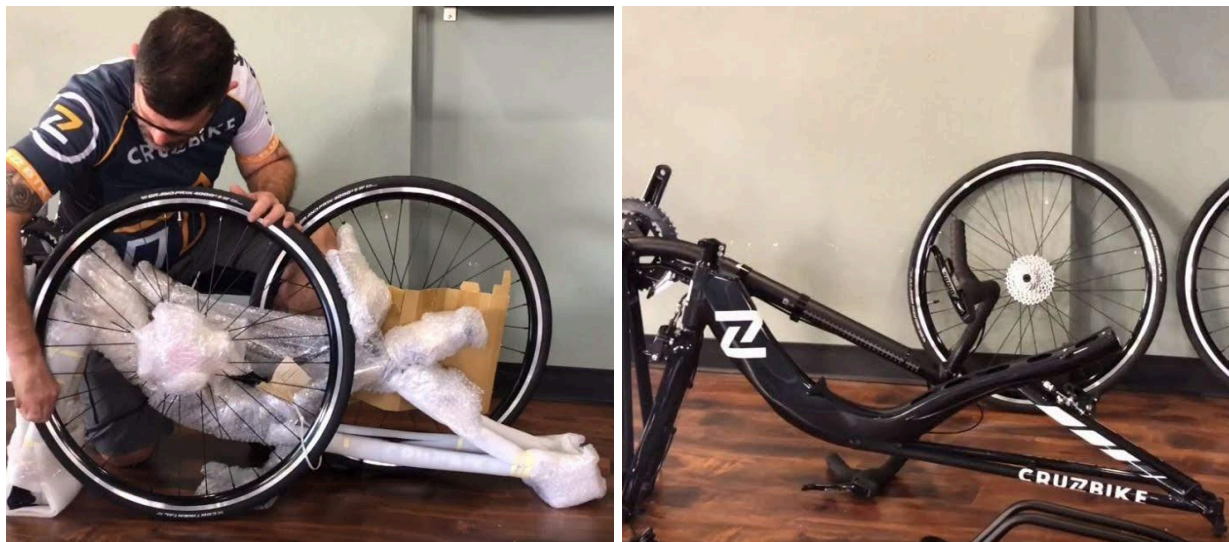


Unboxing

Open the box and remove all the contents. Set aside seat, seat cushion, headrest cushion and small parts box, and any accessories you may have ordered.



Place the main bundle in the center of your work space and remove zip ties holding wheels onto frame (**first image below**). Set wheels aside. Remove foam protective material from the frame (**second image below**). You can use scissors or clippers for this.



Open small parts box and set out parts.

Included in the small parts box are:

Chain

Pedals (marked L and R)

Front and rear wheel skewers (front skewer has no springs)

Small bottle of touch up paint

Small parts bag



In the small parts bag you will find:

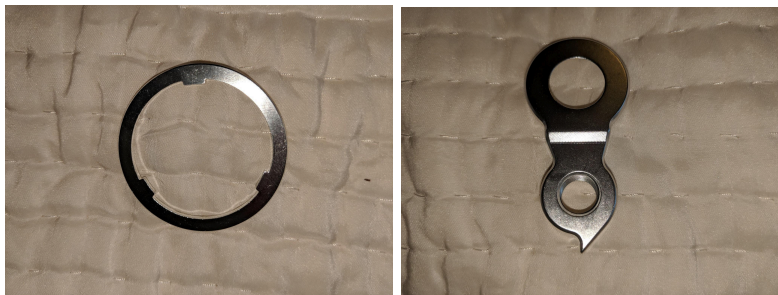
Pivot clamp bolt and sleeve with three washers

Quick link for chain (set aside with chain)

4 bolts and 4 nuts needed for installing carbon fiber seat to frame



You will also find a cassette spacer and spare derailleur hanger which are not necessary for this assembly and can be set aside.



Install headrest

The Cruzbike V20 headrest is held in place in the frame and adjusted using a Perez Clamp, which is pre-installed in the frame (**first image below**). To install the headrest, begin by using a 3 mm allen wrench to loosen the Perez Clamp until it lowers all the way to the bottom of the frame (**second image below**).



With the Perez Clamp bolts loose, slide the headrest tubes into the frame (**first image below**).

Estimate where you will need the headrest and tighten the Perez Clamp bolts (**second image below**). Only tighten them enough to cinch the headrest tubes against the frame. Do not overtighten.

Note: Once the bike is completely assembled and you can sit on it with your helmet on, you will adjust the headrest to the most comfortable position for you.



Attach front end to main frame

The Cruzbike V20 front end is made up of the front chainstay, boom, slider and handlebar assembly. To attach it to the main frame, begin by loosening the four chainstay bolts (**first image below**) with a number 4 allen wrench just enough so you can pivot the chainstay back and forth (**second image below**).

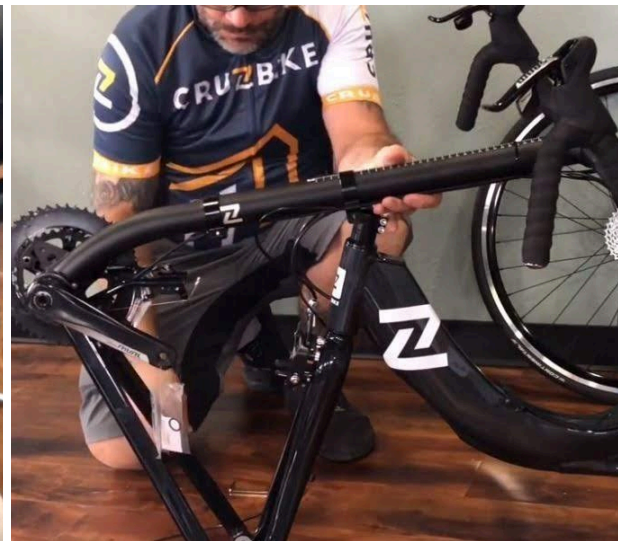
Note: When it comes time to re-tighten the chainstay bolts make sure you do not overtighten them. One half turn past snug is all you need.



Next, remove the pivot clamp bolt from sleeve (**first image below**). Put two washers on the sleeve side and one washer on the bolt side (**second image below**). It helps to put a little bit of grease or vaseline on the pivot bolt.



Next, loosen the boom clamp with a number 5 allen wrench (**first image below**). Then move the front chainstay/boom-slider/handlebar assembly up, turning the handlebars so that they are level (**second image below**).



Sit the part of the pivot clamp that is on the slider onto the part of the pivot clamp that is on the steerer tube (**first image below**). Make sure that the middle cable is in the middle between the two parts of the pivot clamp (**second image below**).



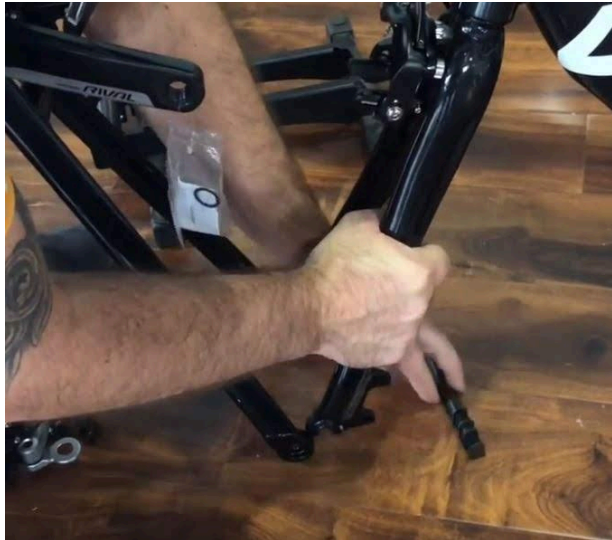
Push the sleeve of the pivot clamp bolt through the pivot clamp making sure the two washers are on the outside (**first image below**). Next, tighten the boom clamp just enough so that it no longer slides from side to side (**second image below**).



Install pivot clamp bolt with one washer on the other side of the pivot clamp (**first image below**). Tighten with a 5 mm allen on one side and another 5mm allen wrench on the other side built using the tool with the 5 mm adapter (**second image below**). Tighten just enough to keep in place.



Remove front fork protector (**first image below**). Pop chainstay over the end of the fork (**second image below**).



Install front wheel

Note: The front/drive wheel on the V20 uses a free hub system that can easily be removed from the axle. If you notice that your free hub is loose on the wheel, it is very easy to put it back on.

To put your free hub back on, take the cassette and freewheel and pop it back into place at a slight angle (**first image below**). Once it is in place, hold it firmly then push the axle back through and twist the cassette on firmly (**second image below**).



With free hub snug, hold the front wheel in a stand or with the help of a friend (**first image below**). Then, pick up the front end of the frame and carefully put it down over the front wheel and down into the front dropouts onto the fork (**second image below**).



Insert skewer through the front axle with quick release on non-drive side. Note again there are no springs necessary on this skewer. Leave about a finger width of chainstay between the quick release and the chainstay which will leave room to install the derailleur on the other side of the wheel (**image below**).



The derailleur hanger has a notched side and a flat side (**first image below**). Slide the derailleur hanger between the chainstay and the fork with the concave side facing in toward the fork (**second image below**).



It will sit between the notches (**first and second images below**).



Next, push the skewer all the way through and install the acorn nut. Once you tighten the skewer it will seat the derailleur hanger into the chainstay (**image below**).



Install rear wheel

Note the side of the rear wheel with six bolts for optional disk brakes (**first image below**). This side of the wheel will be installed facing the rider's left, non-drive side of the bike. Insert the skewer with quick release on the non-drive side and roll the wheel into place (**second image below**) and then tighten skewer down (**third image below**).



Stabilize front end

Snug down the pivot clamp, boom clamp, chainstay clamps and front skewer to stabilize the front end before proceeding.

Install carbon fiber seat

Locate four bolts and nylock nuts that were included in small parts box and bag (**first image below**). Insert two bolts into front holes of the carbon fiber seat and place the seat onto the frame pushing the bolts into the two holes on the wings attached to the frame (**second image below**).



Install nylock nuts onto the two bolts you just inserted through the seat onto the frame very loosely, just two or three turns. This allows the seat to have a little bit of play for installing the second two bolts. We will tighten them completely later.

Next, install the top two bolts and nylock nuts. The fit might be snug, but it will fit (**first image below**). Tighten all the nuts using a 3 mm allen for the bolts and an 8 mm socket built with the adaptor from the tool kit to hold the nuts (**second image below**). Tighten just enough so that there is no play in the seat. Do not over-tighten.



Install headrest cushion and seat pad

Begin by adjusting the headrest to a good initial position that is comfortable for you. Do this before installing the cushion velcro by placing the cushion loosely on the seat and sitting on the bike. We recommend wearing your helmet for this initial setting.

To adjust the headrest position, loosen the Perez Clamp bolts through the holes in the seat with a 3 mm allen wrench. Loosen the bolts just enough so that you can move the headrest in and out to get the right fit. Once positioned, tighten the bolts just enough so the headrest does not move in and out. Do not overtighten (**image below**).



After the headrest is adjusted, remove the backing of the velcro (**first image below**) from the strips and line up the pad to the front of the seat and then carefully lay the cushion onto the seat (**second image below**).



Put a good amount of pressure onto the seat to get the velcro adhesive to stick to the seat (**image below**).

Note: Do not remove the cushion from the seat for a few days to allow the velcro adhesive to cure and properly adhere to the seat.



Install the headrest cushion by putting the cover over the tubes, or by using the velcro straps around the tubes (**image below**).



Install pedals

Remove small bag from cranks (**first image below**) and find two pedal washers (**second image below**). Grease threads of pedals with pedal grease or vaseline



Locate the left and right markings on the pedals inside the pedal mold. Put pedal washer over the end of the pedal (**first image below**) and use 6mm allen built from socket tool, adapter and 6mm bit to install pedals (**second image below**).



Install chain

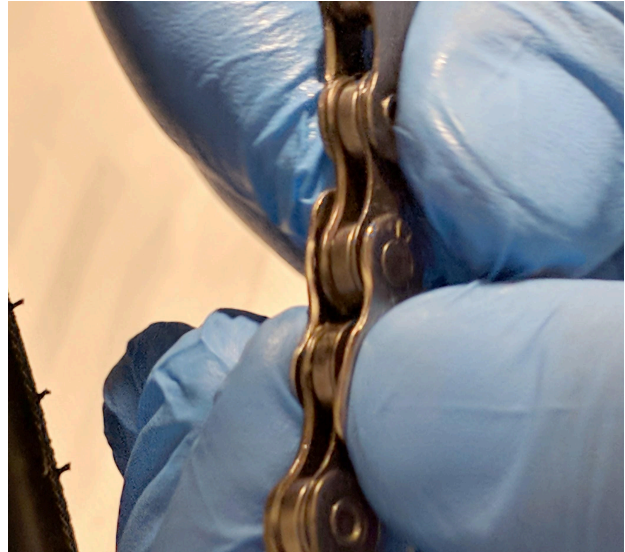
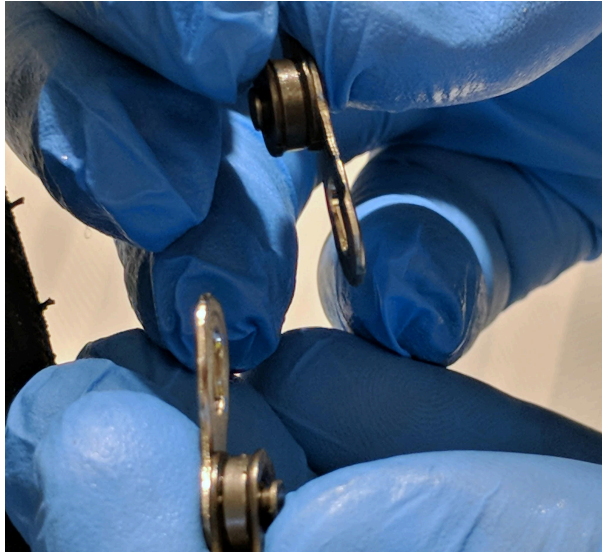
Gloves are helpful here to protect your hands from chain grease. Identify chain and two halves of quick link. Set quick links aside. Untangle chain and place over the cassette and small front chain ring (**first image below**). Place the chain over the first jockey wheel of the derailleur. Make sure the chain links mesh with the wheel teeth (**second image below**).



Pull the second smaller jockey wheel toward the front of the bike, then thread the chain underneath the front jockey wheel (**image below**). Make sure the chain links mesh with the wheel teeth. Ensure that the chain does not ride over the metal guard of the cage before wrapping around the furthest jockey wheel.



Install quick link on lower side of the chain (**first image below**). Pull tight (**second image below**).



If quick link does not settle into position when pulled (**first image below**) you can place the quick link into the top part of the chain path between the cassette and the front chain ring by very carefully turning the cranks backwards, then push hard on the pedal. That should close the quick link and lock it into place (**second image below**).



Before your first ride

Close release on front and rear brakes (**image below**) before attempting to ride. We also recommend taking your bike to your local shop for a quick check and fine tuning shifting and brakes. Getting a pro's help is always a great idea.



V20 Fit

General tips for a good rider fit:

At full pedal extension the rider leg should be slightly bent.

On the pedal upstroke there should be about 2 inches of clearance between the top of the rider's knee and the handlebar.

The rider's arms should have a natural bend at the elbows.

For shorter riders, the boom can be safely cut down 4 inches.

It is crucial to get the headrest in a comfortable position for you. It should support the base of your skull and usually should be below the helmet.

To adjust headrest:

Remove cushion and loosen Perez Clamp bolts just enough so the headrest can slide in and out. Put it in preferred position and then tighten Perez Clamp bolts so that it is firmly in place. Do not overtighten bolts.

The [Suspension Adjustable Headrest](#) is another great option for getting your head position just the way you like it.

First time rider fit tip: if this is a rider's first Cruzbike, the handlebar placement should allow enough room for him or her to sit straight up off the seat back. Sitting up improves confidence and balance while learning to ride.

If the handlebar height needs adjustment higher or lower, we have a curved slider option and different chainstay lengths available at www.cruzbike.com/vendetta.

To make adjustments for fit

Slightly loosen the front skewer.

Slightly loosen the front chainstay clamps.

Loosen the boom clamp.

Move boom in and out to adjust for rider size.

You can also loosen the pivot clamp bolt and move the slider in and out independently of the boom.

Woo-hoo! You just assembled your V20 Complete. Well done.

You are ready to roll on the fastest, most incredibly comfortable and fun road bike in the world. If you have any concerns, take your bike to your local bike mechanic to give it a check before heading out to ride. Getting a pro's help is always a great idea.

Fit Note: Proper fit on a Cruzbike will greatly enhance your riding experience, optimizing both comfort and performance. We've put together tips for Cruzbike fit and adjustment on our website [here](#) that will help you get started. We've also included a 10x10" piece of extra foam for you in the box just in case you need it for optimizing your seat or headrest comfort



We are a very small team over here at Cruzbike, but are the luckiest in the world. We get to work for the most amazing community of customers...the thousands of cyclists who make up the Cruzbike Tribe. We are so grateful to have you join us.

Check out cruzbike.com for upcoming events, resources, community and answers to FAQs.

And feel free to send us an email or wave on social media ([Facebook](#), [Instagram](#) and [Twitter](#))! We love talking with you.