



V20 FRAME ASSEMBLY
INSTRUCTIONS

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INTRODUCTION AND GENERAL SAFETY INFORMATION

Introduction:

If you have questions about the assembly of your frame, you should bring it to a reputable local bike shop mechanic for adjustment. An improperly assembled frame could cause severe injury or death.

NOTE: If you have any questions, please contact support@cruzbike.com. These instructions cover assembly of the frame only. Standard road bike components are used in a complete Cruzbike V20 build.

General Safety Information:

If you have questions about the assembly of your frame, you should bring it to a reputable local bike shop mechanic for adjustment. An improperly assembled frame could cause severe injury or death.

If you have questions about the fitting components, testing and adjusting brakes, or adjusting gearing on a bicycle, you should bring it to a reputable local bike shop mechanic for adjustment. Improperly adjusted brakes or drivetrain components could cause severe injury or death.

Riding a Cruzbike is a learned skill. Be sure to acquire those skills and seek help and support as needed before attempting to ride in traffic or in potential hazardous conditions.

Using a Stand

A work stand is not required to assemble a Cruzbike frame. It can be helpful, but not necessary. These instructions assume that you do not have a stand for frame assembly.

A stand is useful when installing components with the clamp around the slider tube so that the back of the bike hangs down.

STEP 1: PREPARATION

PART	QUANTITY
Main Frame	1
Fork with Headset Stack	1
Chainstay	1
Boom/Slider/Pivot Clamp Assembly	1
Handlebars	1
Carbon Fiber Seat	1
Headrest Tube	1
Scissor Jack Assembly	1
Wheel Skewer Front (long)	1
Wheel Skewer Rear (short)	1
Back and Seat Cushions	2 (one set)
Headrest Pad	1
Deraillieur Hanger	2 (one is a spare)
Headbadge	1

Unpack your V20 frame being careful not to scratch the paint when removing the protective covering. Many parts of the V20 are already assembled to make your job easier and to also allow for a reference of how the parts go together. Use the table at left to verify parts.

If you do not have all the parts, please contact support@cruzbike.com.

Obtain the following tools and materials for assembly: bike grease, hex wrenches in 5mm, 4mm, and 3mm size.

NOTE: To assemble the frame you will need the external bearing bottom bracket that goes with your chosen crank set. This will be a component specific item depending on your crank set. If you have questions please contact support@cruzbike.com.

STEP 2: INSTALL THE SCISSOR JACK ASSEMBLY AND HEADREST TUBE

2-01: Remove the screws from the scissor jack assembly. Do not take the unit apart. Using your fingers, squeeze the unit as shown in the image and insert it into the frame. Then install the screws through the frame and back into the assembly. It is important that the unit is oriented as shown in the pictures sequence.



STEP 2-01



STEP 2-01



STEP 2-01

STEP 2: INSTALL THE SCISSOR JACK ASSEMBLY AND HEADREST TUBE

2-02: Insert the headrest tube through the top of the frame. You may have to pinch the scissor jack assembly together a bit but the headrest tube should slide past it.



STEP 2-02



STEP 2-02

STEP 2: INSTALL THE SCISSOR JACK ASSEMBLY AND HEADREST TUBE

2-03: The scissor jack assembly should be in a “V” facing upwards as shown in the images with the headrest tubes to either side. Using a 3mm hex wrench, tighten the screws slowly. This will raise the jacks and put outward pressure on the headrest tubes. It is not necessary to over tighten the screws. Once you are riding, the headrest can be adjusted by loosening the jacks and sliding the headrest in and out as needed for the best fit.



STEP 2-03



STEP 2-03

STEP 3: INSTALL THE FRONT FORK



STEP 3-01

3-01: Note the installation sequence and orientation of the headset bearings and washers in the image at left

3-02: Brush a thin layer of grease inside the headset bearing races in the frame.



STEP 3-02

STEP 3: INSTALL THE FRONT FORK



3-03: Remove the top cap from the fork with a 5mm hex wrench, and everything except the lower bearing and the crown race. The crown race is a split ring. Push it down against the crown, brush a bit of grease on the race surface, and seat the lower bearing onto it.

3-04: Slide the fork into the frame, and then install the top bearing and washers in exactly the same order as they were before..



STEP 3-03



STEP 3-04

STEP 4: INSTALL THE PIVOT CLAMP



STEP 4-01

4-01: Loosen the front boom clamp and pivot clamp with a 5mm hex wrench. Remove the boom, boom clamp, and then remove the pivot clamp from the slider tube. Install the spacers onto the fork steer tube and then the pivot clamp as shown in the image. Reinstall the top cap into the fork star nut and tighten to snug the bearing. It will not take much pressure and is a fine tune. The fork should turn freely with no binding or movement when rocked back and forth. Once the proper setting is achieved, tighten the two bolts to secure the pivot clamp the steer tube with a 5mm hex wrench. Ensure that the pivot clamp is positioned as shown and in alignment with the fork.



STEP 5: ASSEMBLE THE BOOM TO THE CHAINSTAY

5-01: Remove the 4mm hex screws in the ring clamps at the end of the chainstay. Insert the boom into the front chainstay and move it as far to the right as possible into the ring clamp as shown in the image. Using the proper tool, install the right side external bearing cup for your crankset to the proper torque.



STEP 5-01



STEP 5-01

STEP 5: ASSEMBLE THE BOOM TO THE CHAINSTAY

5-02: Slide the boom to the left as far as it will go, moving the ring clamp over the installed right side bearing cup. This will allow the left side cup to be installed and tightened with the proper installation tool. Once tightened, center the ring clamps over the bearings. Lightly grease the threads of the screws and reinstall them in the ring clamps, but do not tighten them yet.



STEP 5-02



STEP 5-02

STEP 6: INSTALL THE HEADTUBE BADGE



6-01: Peel the sticker off the back of the included badge. Center it vertically and left right on the front of the frame.

STEP 6-02

STEP 7: FINAL FRONT DRIVE TRIANGLE INSTALLATION



STEP 7-01

7-01: Insert the slider tube through the pivot clamp as shown in the image. At the end of the slider tube, install the boom clamp. For easier adjustments, ensure that the 5mm hex screws of the pivot clamp and the boom clamp are on the same side of the bike.

7-02: Insert the boom into the slider. Spread the chainstay legs very slightly to put them over the fork as shown in the image. Finally, install the handlebars. Align the handlebars to level by loosening the boom and slider clamp slightly and rotating the bars.



STEP 7-02

THAT'S IT!

Your V20 frame is now assembled and ready for components. The Derailleur hanger is a “press-fit” style and goes in-between the right fork and chainstay leg. It is reserved for component installation to protect it from resting against the floor and becoming damaged. The seat is to be installed AFTER running the cable housing for the rear brake. It attaches with velcro and is shaped to fit the hydroformed tube. It installs with two bolts at the base (do not overtighten!) and using two of the included plastic clamps around the headrest tube.

SPECIAL NOTE: RIDER FIT

The V20 is a performance bike and is intended to be fit to the specific rider prior to running cables. Once completed, there should be just enough cable housing slack to enable the rider to make slight adjustments to the X-seam, leg-handlebar clearance, and arm reach after becoming acclimated.

THE MEASUREMENTS NEEDED FOR AN EFFECTIVE FIT ARE:

X-SEAM

Sitting with your back flat up against a wall - measure from wall to bottom of shoe with legs straight.

UPSTROKE CLEARANCE

Sitting in a chair with legs at 90 degrees measure from the floor to the level plane across the top of your thigh.

ARM EXTENSION

Distance from armpit to the center of your palm.

TORSO LENGTH

Sitting flat up against a wall - measure the distance from the floor to the midpoint of the back of the neck.

STEPS FOR MAKING ANY ADJUSTMENT CRITICAL TO PREVENTING DAMAGE:

STEP 1

Loosen the front wheel skewer.

STEP 2

Loosen the 4mm hex ring clamp bolts.

STEP 3

Loosen the boom clamp.

STEP 4

Loosen the pivot clamp.

Once any adjustment is made, tighten ALL fasteners that were loosened and don't forget to tighten the front wheel skewer!