



MAINTENANCE SCHEDULE

ASSEMBLY INSTRUCTIONS

TORQUE SPECIFICATIONS

Introduction

Congratulations on your purchase of a NIRVE premium quality bicycle. We are confident you will find your NIRVE bicycle to be at the highest level of design, quality, and workmanship that the bicycle world can offer.

NIRVE has assembled and adjusted your bicycle as completely and thoroughly as possible, while remaining shippable by conventional means. Depending on the model and size of the bike you purchased, there are different levels of final assembly required. Refer to the table of contents for the section that applies to your model.

IMPORTANT SAFETY NOTICES! PLEASE READ CAREFULLY!

ASSEMBLY: Please be aware that the following instructions are intended for the final assembly to be performed by an adult 18 years of age or older. If you are under the age of 18, do not assemble the bike without the help and supervision of a parent or an adult. These instructions include information pertaining only to those components which are either uninstalled, or that lack complete adjustment, as the bike comes out of the carton. Please read all instructions completely prior to assembly. Pay special attention to all warnings and notes and perform all listed tests. Failure to do so may result in irreparable damage to the bicycle and/or possible equipment failure, which may result in serious personal injury or death.

For more complete and specific adjustment and safety information, please refer to the NIRVE Owner's Manual, which is included in the small parts box. If for any reason, you feel that you are lacking sufficient instruction or tools for proper set-up and adjustment, please do not hesitate to contact NIRVE technical support at 1-877-NIRVE TECH. Or visit your local professional bicycle dealer.

REFLECTORS: All Nirve bicycles come with four safety reflectors; one-front (white), one rear (red), and one for each wheel (white or yellow). **WARNING:** Reflectors only reflect light from other sources. They do not produce light on their own. Do not assume that other vehicles can see you simply because you have reflectors installed. Riding after dark is inherently dangerous. NIRVE recommends that you avoid riding after dusk. If you must ride after dark, NIRVE strongly recommends the use of an add-on headlight and taillight, which are available at your local bike shop. Defer to local laws on any and all bike riding requirements - night or day.

BEFORE RIDING: Read the Owner's Manual contained in the small parts box and make sure that you or your child understands all instructions, warnings, cautions and safety information. The Owner's Manual contains additional important safety information about your bicycle and bicycling safely. Failure to follow the instructions, warning and safety information contained in the Owner's Manual could result in serious personal injury or death.

20" and 24" Bicycle Assembly Instructions" BMX & Freestyle

NOTE

Please read all instructions completely prior to assembling your bicycle and read the Owner's Manual before operating your bicycle.

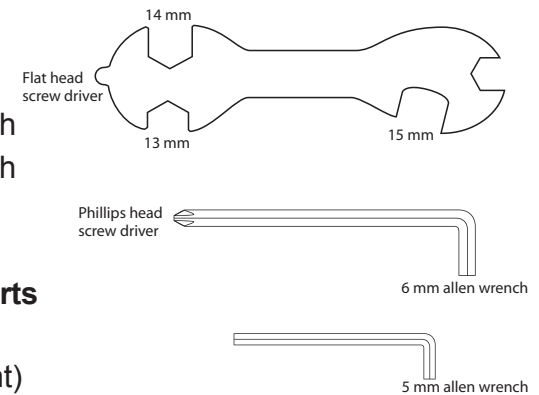
Tools Required:

5mm allen wrench
6mm allen wrench
Multi open-end
wrench

Items included in parts

box:

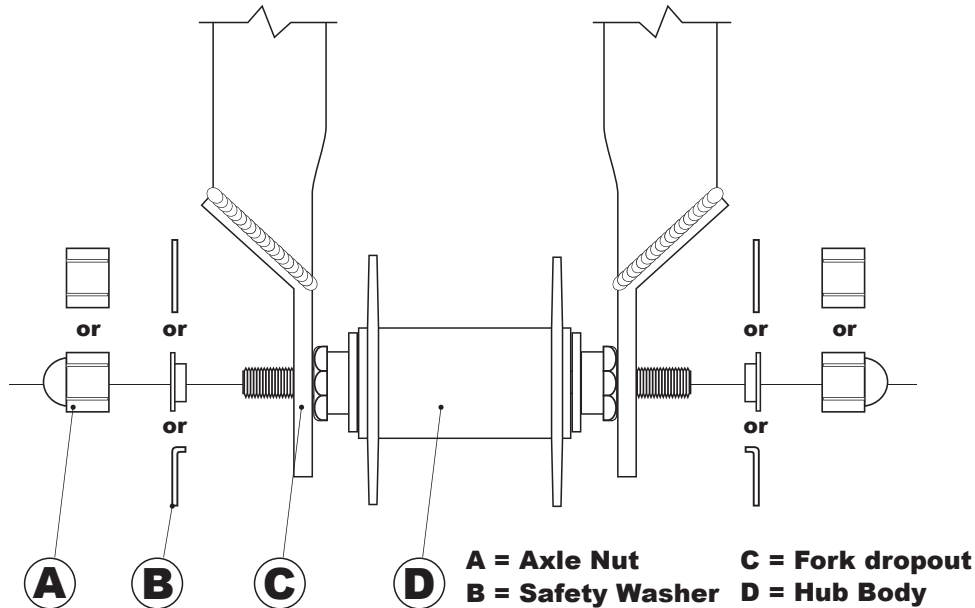
2 Pedals (1 left, 1 right)
1 Owner's Manual, 1 Assembly manual
1 set Front and Rear Reflectors



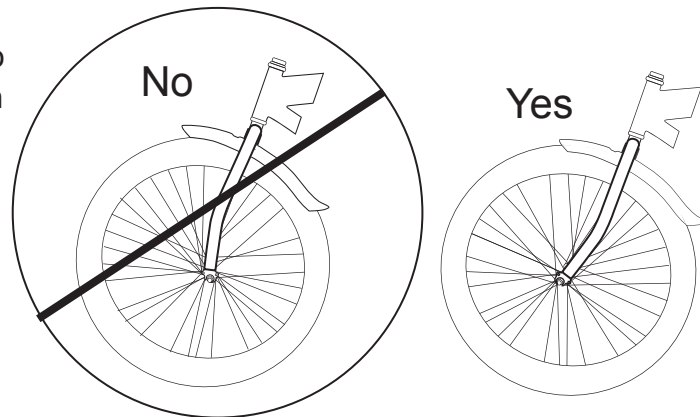
If any of the items listed above are not included in the small parts box DO NOT begin assembly. Please contact NIRVE technical support at 1-877-NIRVETECH.

Install Front Wheel

Step 1 Locate the axle nuts and axle washers, which should be already on the front wheel. Locate the wheel retention washers (2), which if not on the front wheel should be in the reflector bag/kit. Arrange each side of the front wheel's axle to have one wheel retention washer, one axle washer, and one axle nut as shown (fig) loosely fitted.

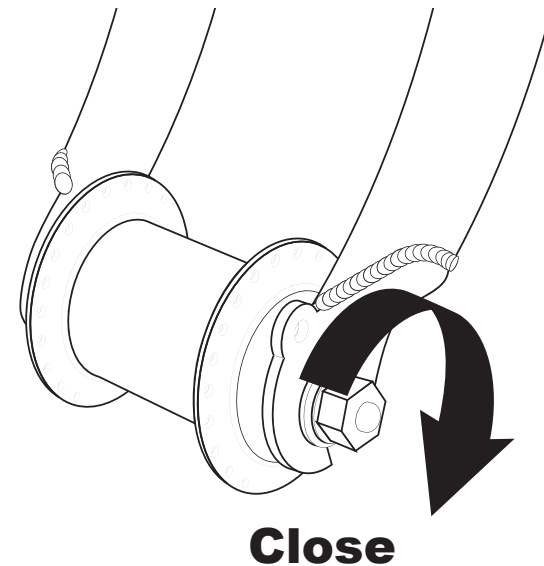


Visually inspect your assembly. Be sure to assemble wheel with front fork facing forward refer to example in picture.

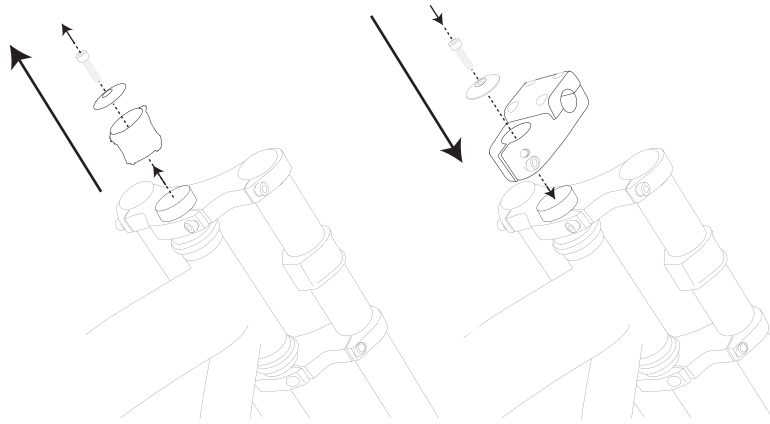


Step 2 With the fork facing forward, insert the wheel between the fork blades so that the axle seats firmly at the top of the fork's dropout slots. The axle nuts, axle washers, and wheel retention washers should be on the outside of the dropout as shown. **WARNING:** Be sure wheel retention washers fit properly into dropout's corresponding opening before tightening.

Step 3 While holding the wheel firmly to the top of the slots in the fork dropouts (which can be done by having bike sitting upright on ground and under its own weight), use the correct size wrench (usually 15mm) to tighten the axle nuts. Axle nuts tighten **clockwise**. Proper torque should be at least (17-23 ft-lb. or 20-25 Nm) Once installed, spin front wheel to make sure that it is centered in the frame. If bike has fork mount front brake, be sure that rim clears the brake pads evenly on both sides. Squeeze the brake lever and make sure that the brakes are operating correctly



Handlebar Stem Adjustment

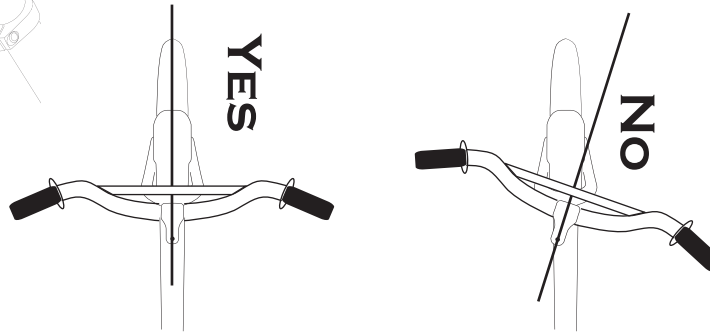


Step 1 Using the 5mm allen wrench remove compression cap from top of steer tube. Remove cardboard packing sleeve. Install stem onto exposed steer tube column (may not be necessary on some models). Install compression cap on top of stem. Tighten compression cap. (recommended torque is 25 lb.in or 2-3 Nm.) Be sure not to over tighten.

NOTE Failure to secure stem faceplate properly may cause undue stress to equipment and possible failure which may result in serious personal injury or death.

WARNING! Failure to adjust handlebar stem properly may cause equipment failure or loss of steering control which may result in serious personal injury or death.

Step 2 Use the supplied 6mm allen wrench to remove the four (4) stem faceplate bolts. Install handlebar onto lower half of stem. Using stem faceplate and 4 faceplate bolts secure handlebar in position. Tighten the the four (4) faceplate bolts by turning each one **clockwise** one turn at a time repeating the "X" pattern (top right, bottom left, top left, bottom right) until all bolts have equal tension and are completely secure (recommended torque is 12-16 ft-lb. or 17-19 Nm).

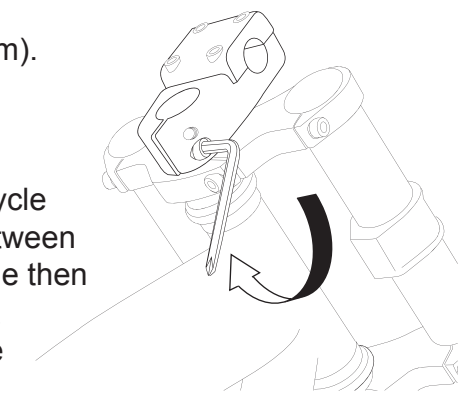
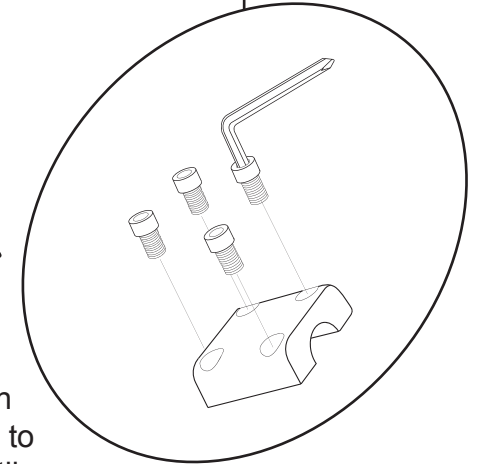
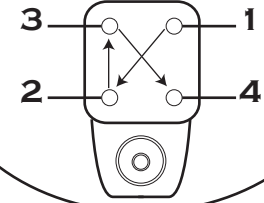


Step 3 Visually align the stem with the front wheel. The stem and wheel should be in-line with each other. Use the supplied 6mm allen wrench to turn the two (2) stem binder bolts **clockwise** until secure. Then turn one to two turns to tighten completely (recommended torque is 12-16 ft-lb. or 17-19 Nm).

TEST HANDLEBAR STEM FOR TIGHTNESS!

Test: While off the bike, face the rear of the bicycle and straddle the front wheel holding it tightly between your legs. Try turning the handlebars side-to-side then forward and backward without allowing the front wheel to turn between your legs. Use force! The handlebar and stem should not turn at all if the stem has been tightened sufficiently. If the handlebar or stem turns, repeat steps 1 thru 3.

TIGHTEN IN ORDER



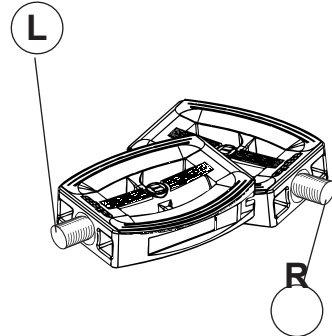
Pedal Installation

NOTE

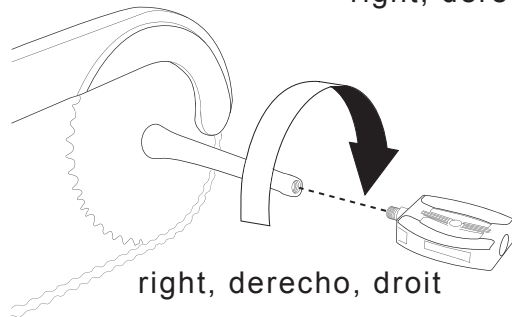
The right and left pedals are threaded in different directions and can not be interchanged. Damage will result to both pedals and crank arms if pedals are installed incorrectly

Step 1 Find pedal with the "R" stamped on the threaded axle. This pedal will be installed on the right (chain) side. Find pedal with the "L" stamped on the threaded axle. This pedal will be installed on the left side, opposite the (chain) side.

left, izquierda, gauche



right, derecho, droit



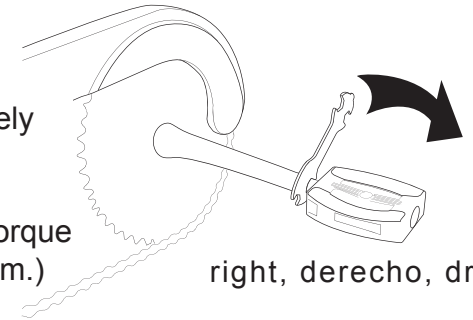
right, derecho, droit

Step 2 Thread pedal marked "R" by hand into the crank arm turning it **clockwise** until secure.

If resistance is encountered after 2 or 3 turns STOP. There is a danger of cross threading the threads in the crank arm if alignment is off. This may cause permanent damage to both the pedal and the crank arm if forced.

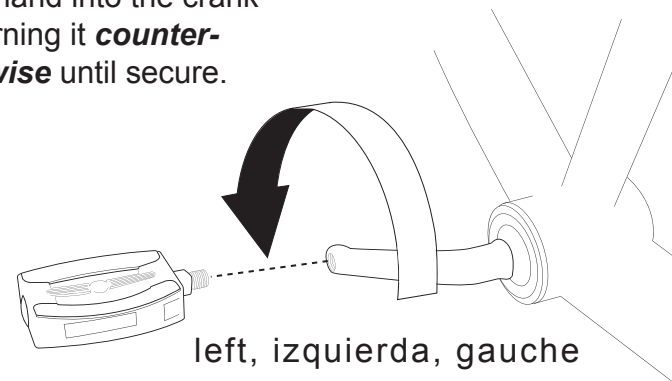
Check to see if the threads are aligned properly and pedal axle is going in straight. You may need to unscrew the pedal axle and realign the threads before continuing to step 3.

Step 3 Use the supplied 15mm open-end wrench to turn pedal threads **clockwise** until completely threaded into the crank. Tighten completely until secure. (recommended torque is 28-30 ft-lb. or 35-40 Nm.)



right, derecho, droit

Step 4 Thread pedal marked "L" by hand into the crank arm turning it **counter-clockwise** until secure.

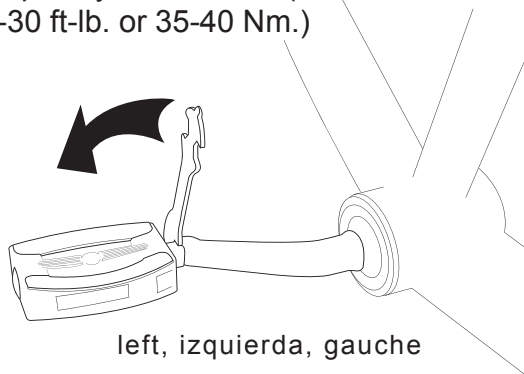


left, izquierda, gauche

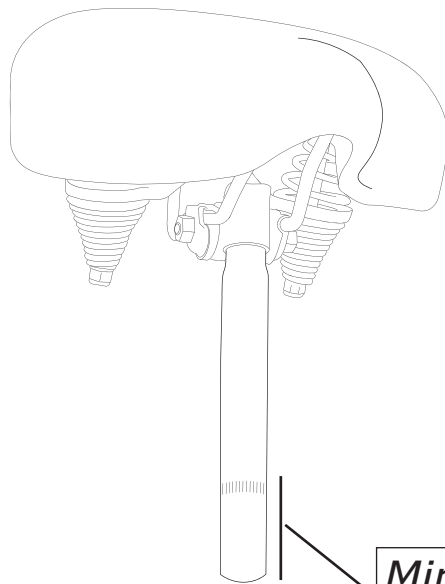
If resistance is encountered after 2 or 3 turns STOP. There is a Danger of cross threading the threads in the crank arm if alignment is off. This may cause permanent damage to both the pedal and the crank arm if forced.

Check to see if the threads are aligned properly and the pedal axle is going in straight. You may need to unscrew the pedal axle and realign the threads before continuing to step 5.

Step 5 Use the supplied 15mm open-end wrench to turn pedal threads **counter-clockwise** until completely threaded into the crank. Tighten completely until secure. (recommended torque is 28-30 ft-lb. or 35-40 Nm.)



Seat Adjustment

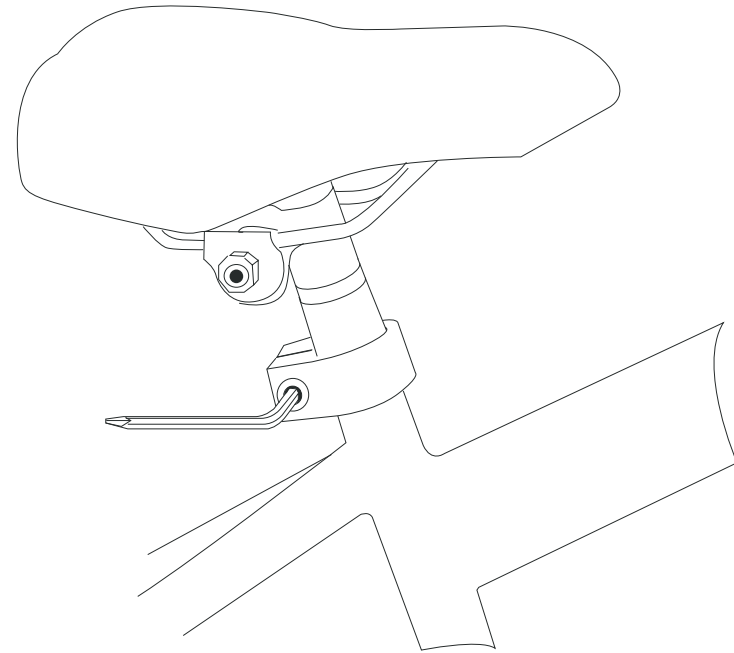


**Minimum
Insertion**

WARNING!

The seat post is marked with a minimum insertion line. Failure to keep a minimum of 2-1/2 inches inserted into the seat tube and properly secured may cause equipment failure which may result in serious personal injury or death

Step 1 Loosen seat post by using the supplied 5mm allen wrench to turn seat post binder bolt **counter-clockwise**. Raise or lower seat to desired height. **DO NOT** raise seat post beyond the marked "minimum insertion" line. Tighten binder bolt completely until secure (recommended torque is 12-16 ft-lb. or 12-17 Nm).



Test: While off the bike, straddle and hold the rear wheel tightly between your legs. Try turning the seat side to side without allowing the bicycle to move freely between your legs. Use force! The seat should not turn at all if the binder bolt has been tightened sufficiently. If the seat turns, realign and tighten the binder bolt until secure.

BEFORE EVERY RIDE	EVERY 30 DAYS	EVERY 6 MONTHS	ONCE A YEAR
<p>Check your tire pressure. Refer to the tire sidewall for recommended pressure. Check tire tread for wear, cuts, and debris.</p>	<p>Check chain for proper lubrication. If necessary lubricate with high quality chain lube available from your local bike shop. Do not over lubricate, wipe off any excess with a clean rag. DO NOT USE VEGETABLE BASED OILS TO LUBRICATE BICYCLE!</p>	<p>Clean bike using a sponge and mild soap and water solution. Dry bike and polish all metal surfaces with a high quality automotive wax. DO NOT USE A HIGH PRESSURE HOSE TO WASH BIKE. DOING SO WILL CONTAMINATE BEARING GREASE!</p>	<p>Take to your local professional bike shop for complete check up and tune up.</p> <p>Have dealer re-pack hubs, headset, and crank bearings with fresh high</p>
<p>Check frame welds for signs of cracking. DO NOT RIDE BIKE IF THERE ARE ANY SIGNS OF CRACKS IN THE FRAME WELDS! DOING SO COULD CAUSE SERIOUS INJURY OR DEATH.</p>	<p>Check all nuts and bolts for proper tightness. Refer to Torque specifications for correct settings.</p>	<p>Check all control cables for wear and tear. Cable housing should not be kinked or broken. Inner cable should not be frayed or rusted. Replace if necessary.</p>	<p>Check tires for excessive wear or dry rot. Replace if necessary.</p>
<p>Check to make sure your axle nuts or quick release mechanism are properly tightened and secure. Check seat and handlebars for proper alignment and tightness. Refer to Torque specifications for correct settings.</p>	<p>Check crank and steering bearings for smooth operation with no looseness in working assemblies. Crank and steering bearings should be adjusted to work smoothly with no resistance or play. Visit your local bike shop if adjustment is necessary.</p>	<p>If equipped with a derailleur transmission, lubricate all derailleur pivots using high quality bicycle lube.</p>	
<p>Check brakes for proper function. Check brake pad thickness for excessive wear and correct alignment with rim surface if equipped with hand brakes.</p>	<p>Check pedal axles to be sure they have not worked loose. Tighten if necessary using a 15mm wrench. Refer to Torque specifications for correct settings.</p>		
<p>Spin wheels and check to make sure they run true and are not bent. Visit a bicycle shop for alignment if your wheels are out of true.</p>	<p>Wipe off bike and components of any accumulated road grime using clean soft cloth. Especially sand residue. Sand contains salt and promotes corrosion and premature component failure.</p>		
<p>Check chain adjustment for proper tension. Correctly adjusted chain will have between ¼" (7mm) and ½" (13mm) of deflection up or down from resting centerline.</p>			
<p>Shake fenders gently by hand and check for rattles and general tightness. Tighten with 8mm box end wrench if necessary. DO NOT RIDE BIKE WITH LOOSE FENDERS. LOOSE FENDERS MAY FALL OFF AND JAM IN THE WHEEL CAUSING THE BIKE TO STOP SUDDENLY POTENTIALLY CAUSING RIDER INJURY!</p>			

Torque Specification Table

12in - 16in Torque Specs

pedal	35-40 Nm (28-30 ft-lb.)
handlebar anchor bolts	19-24 Nm (14-16 ft-lb.)
seat post binder bolt	12-17 Nm (12-16 ft-lb.)
axle nut	20-25 Nm (17-23 ft-lb.)

20in - 24in Torque Specs

handlebar anchor bolts	19-24 Nm (13-16 ft-lb.)
pedal	35-40 Nm (28-30 ft-lb.)
seat post binder bolt	12-17 Nm (12-16 ft-lb.)
axle nut	22-24 Nm (17-23 ft-lb.)
compression cap	2-3 Nm (25 in-lb.)
stem faceplate bolts	17-19 Nm (12-16 ft-lb.)
stem binder bolts	17-19 Nm (12-16 ft-lb.)
front fender bolt	5.5-9 Nm (4-10 ft-lb.)

Training Wheel Torque Specs

support bracket bolt	20 Nm (15 ft-lb.)
axle nut	20-25 Nm (17-23 ft-lb.)

Bike Basket Torque Specs

base clip bolts	2.5-4 Nm (25-35 in-lb.)
mount bracket bolts	2.5-4 Nm (25-35 in-lb.)
strut bolts	2.5-4 Nm (25-35 in-lb.)

24 inch & 26 inch Cruiser Torque Specs

handlebar anchor bolt	17-19 Nm (12-16 ft-lb.)
axle nut	20-25 Nm (17-23 ft-lb.)
front fender bolt	5.5-9 Nm (4-6 ft-lb.)
fender brace bolts	2.5-4 Nm (25-35 in-lb.)
stem binder bolt	11-13.5 Nm (8-12 ft-lb.)
seat binder nuts	4-6 Nm (35-55 in-lb.)
pedal	35-40 Nm (28-30 ft-lb.)

Banana Seat Torque Specs

sissy bar bolts	2.5-4 Nm (25-35 in-lb.)
axle nuts	20-25 Nm (17-23 ft-lb.)
seat post binder bolt	12-17 Nm (12-16 ft-lb.)

Chopper Torque Specs

axle nut	20-25 Nm (17-23 lb.in)
pedal	35-40 Nm (28-30 ft-lb.)
seat post binder bolt	12-17 Nm (12-16 ft-lb.)
compression cap	2-3 Nm (25 in-lb.)
stem faceplate bolts	17-19 Nm (12-16 ft-lb.)
stem binder bolts	17-19 Nm (12-16 ft-lb.)
fender bolts	2.5-4 Nm (25-35 in-lb.)