



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.

Cruiser and Chopper Assembly Instructions

WARNING!

The seat post is marked with a maximum height 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

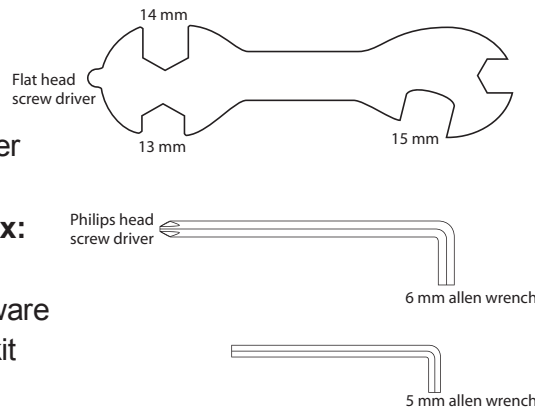
Tools Required:

- 5mm allen wrench
- 6mm allen wrench
- Phillips head screwdriver
- Open end multi wrench

Items included in parts box:

- 2 Pedals (1 left, 1 right)
- Fender mounting hardware
- Front & Rear reflector kit
- 1 Owner's Manual
- Assembly tool kit

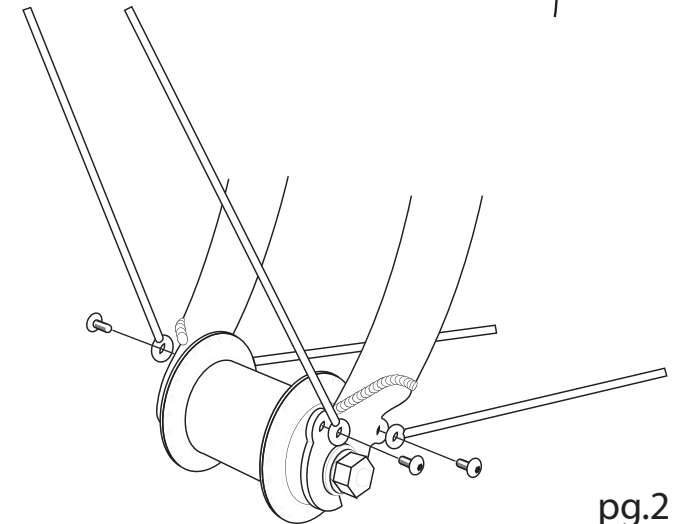
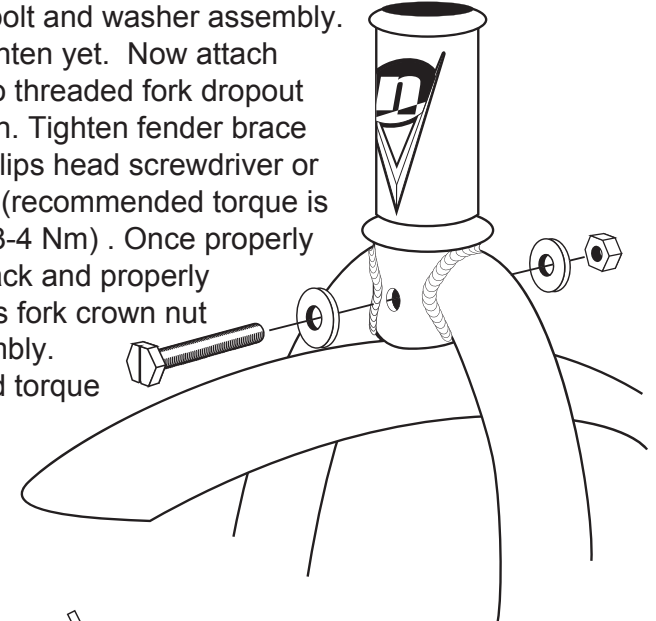
If any of the items listed above are not included in the small parts box DO NOT begin assembly. Please contact NIRVE technical support at 1 877-NIRVE TECH



Front Fender, Front Wheel, Handlebar and Stem Installation

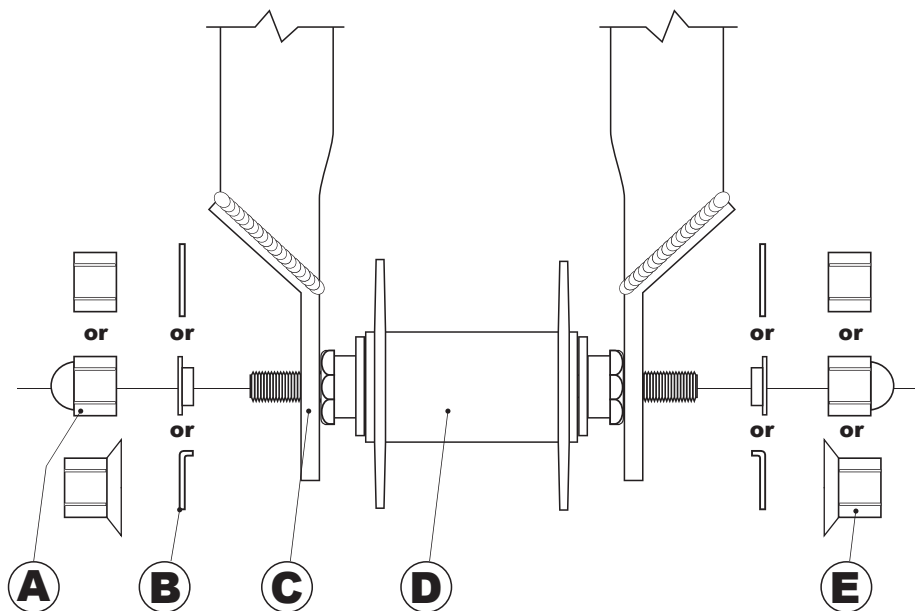
Install Front Fender (optional and if provided)

Step 1 Attach front fender to fork crown as shown, using provided nut, bolt and washer assembly. Do not fully tighten yet. Now attach fender brace to threaded fork dropout holes as shown. Tighten fender brace bolts using Phillips head screwdriver or 10mm wrench. (recommended torque is 25-35 in-lb. or 3-4 Nm). Once properly secured, go back and properly tighten fender's fork crown nut and bolt assembly. (recommended torque is 5-6 ft-lb. or 5-9 Nm).



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. Note some models may be equipped with an integrated one piece nut washer. No additional loose washers are necessary with this style



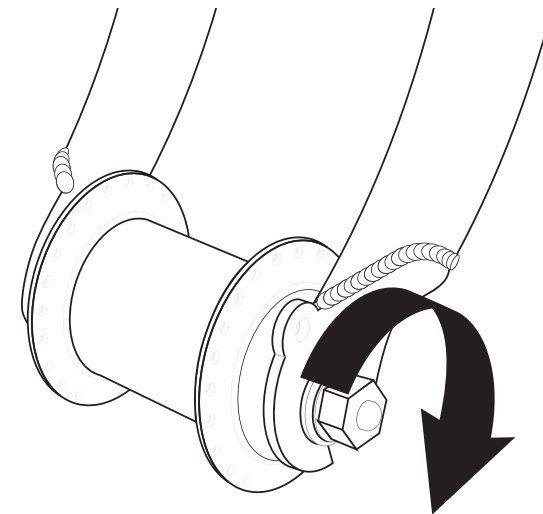
A = Axle Nut
B = Safety Washer

C = Fork dropout
D = Hub Body

E = Nut washer

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 (20-25 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

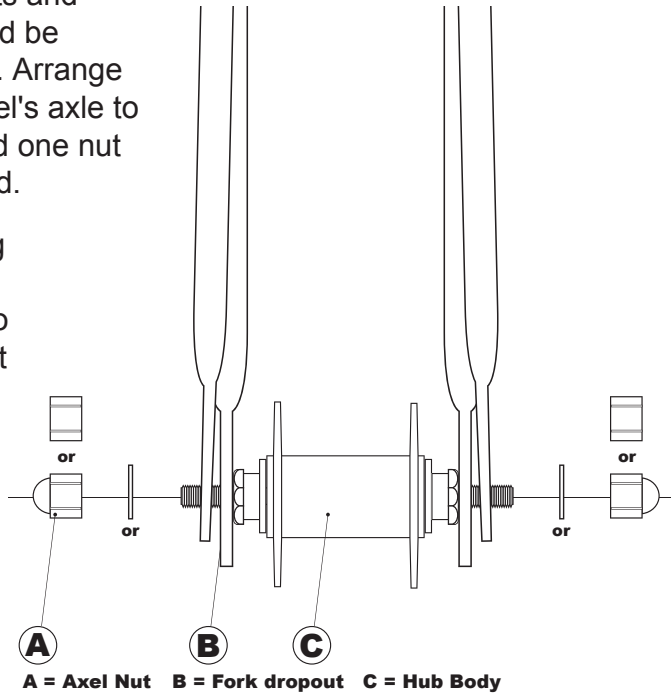


Close

Install Front Wheel on Springer Fork

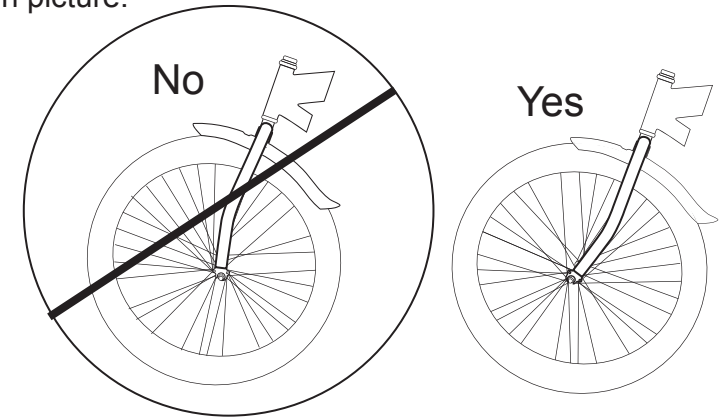
Step 1 Locate the axle nuts and axle washers, which should be already on the front wheel. Arrange each side of the front wheel's axle to have one axle washer, and one nut as shown (fig) loosely fitted.

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. Once the axle is positioned in the fork pull the outer fork supports over the axles refer to drawing. The axle nuts, axle washers should be on the outside of the outer fork support as shown.



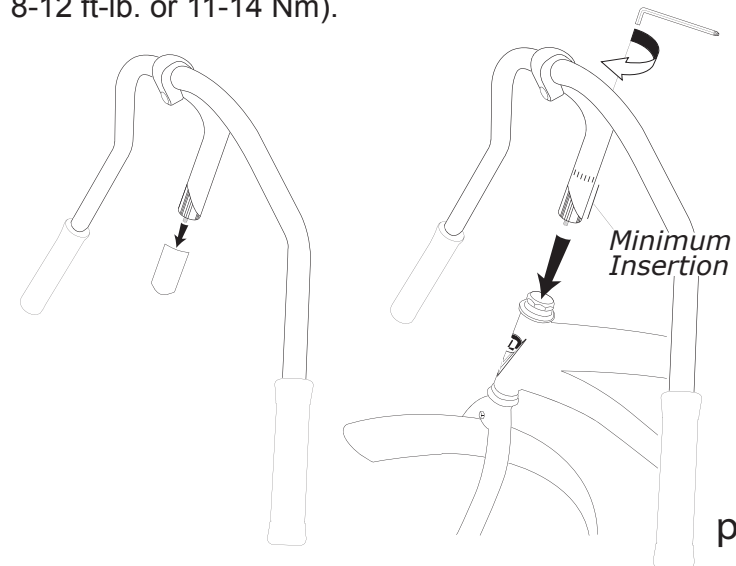
Step 3 While holding the wheel firmly to the top of the slots in the fork dropouts (which can be done by having bike sitting upright on ground and under its own weight), use the correct size wrench (usually 15mm) to tighten the axle nuts. Axle nuts tighten clockwise. Proper torque should be at least (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

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



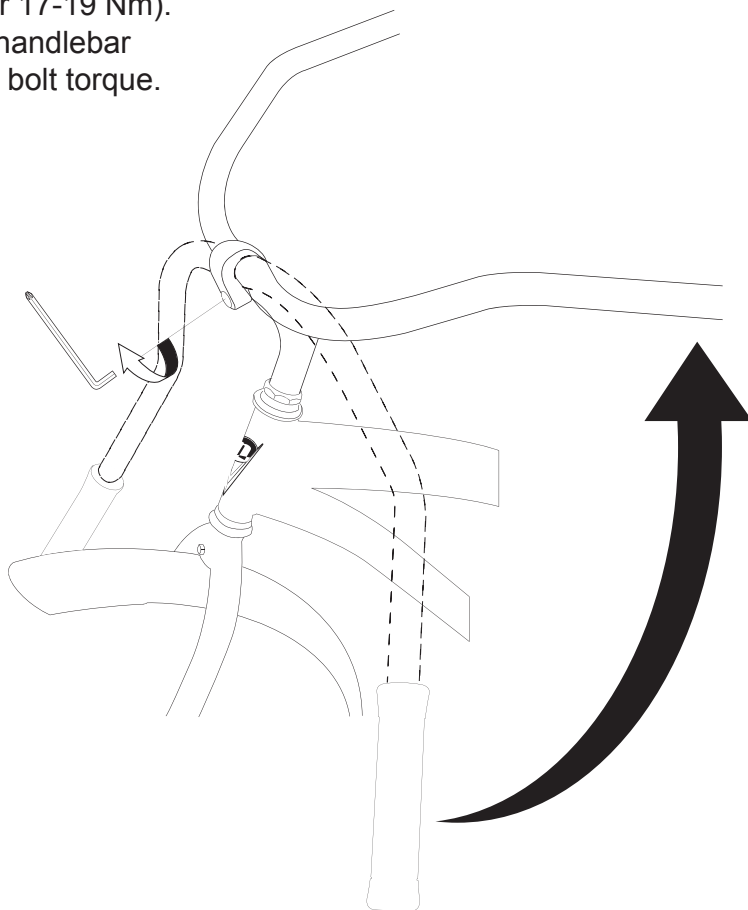
Install Stem and Handlebar assembly

Quill Type Stems **Step 1** Remove wedge cap from handlebar so that stem can be inserted into fork column. Grease stem shaft lightly, align with wheel and tighten stem binder until secure. (recommended torque is 8-12 ft-lb. or 11-14 Nm).



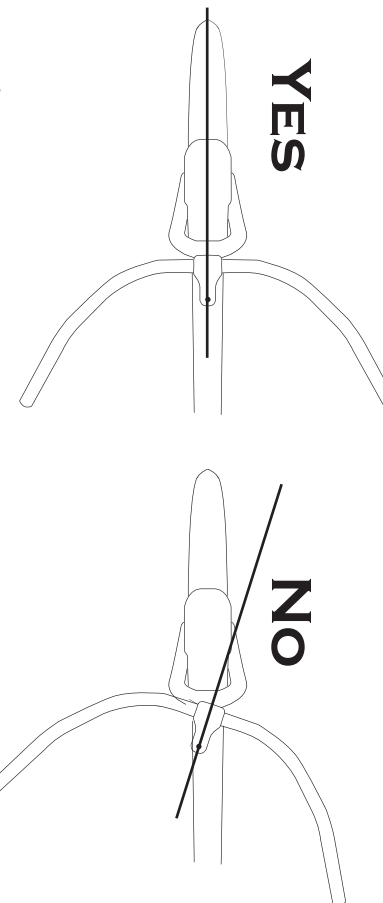
Step 2 Once stem is installed in fork column, rotate handlebars to desired riding position and tighten stem's handlebar anchor bolt. (recommended torque 12-16 ft-lb. or 17-19 Nm).

Recheck stem and handlebar alignment and stem bolt torque.



TEST HANDLEBAR ASSEMBLY 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.



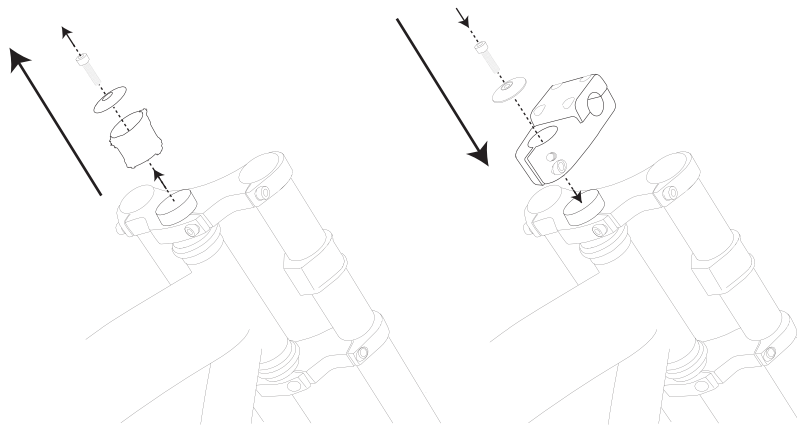
WARNING!

Stem must be inserted to at least the minimum insertion mark. Failure to do so could cause stem and handlebar assembly to twist or disengage from fork column, possibly resulting in serious 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.

Handlebar Stem Adjustment Treadles Type Stem

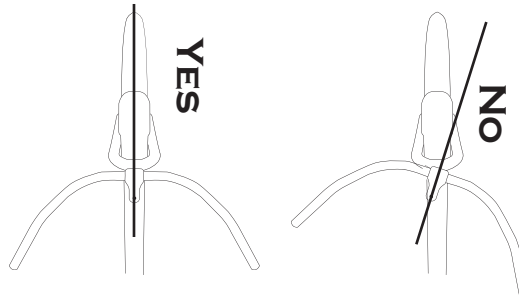


Step 1 Using the 5mm allen wrench remove compression cap from top of steer tube. Remove cardboard packing sleeve. Install stem onto exposed steer tube column (may not be necessary on some models). Install compression cap on top of stem. Tighten compression cap. (recommended torque is 25 in-lb. or 2-3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

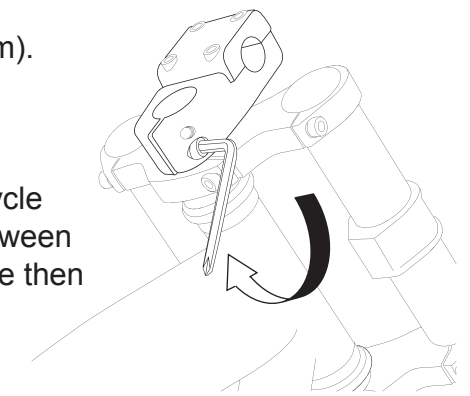
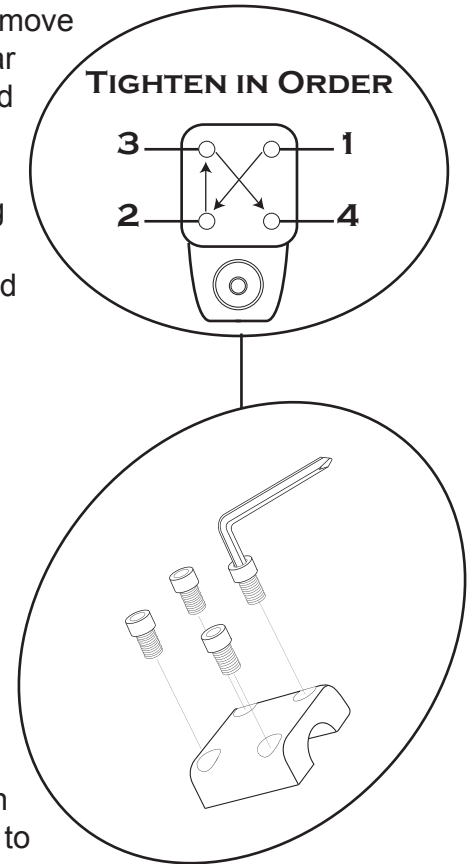
Step 2 Use the supplied 6mm allen wrench to remove the four (4) stem faceplate bolts. Install handlebar onto lower half of stem. Using stem faceplate and 4 faceplate bolts secure handlebar in position. Tighten the the four (4) faceplate bolts by turning each one **clockwise** one turn at a time repeating 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.



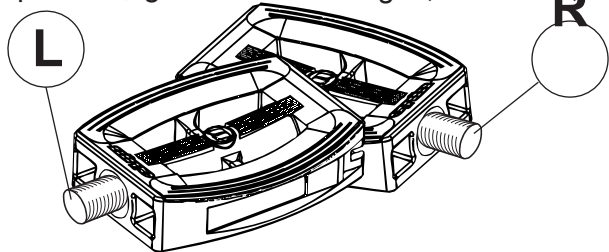
Pedal Installation

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

left, izquierda, gauche

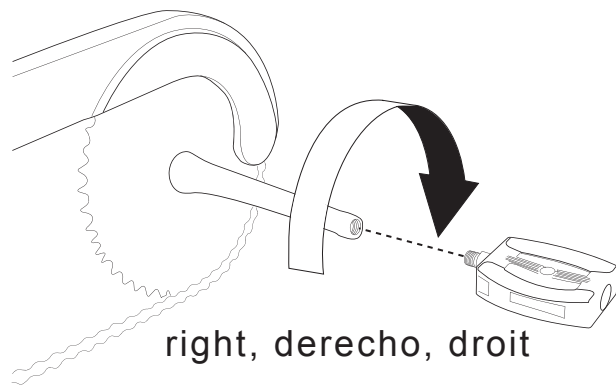
right, derecho, droit



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.

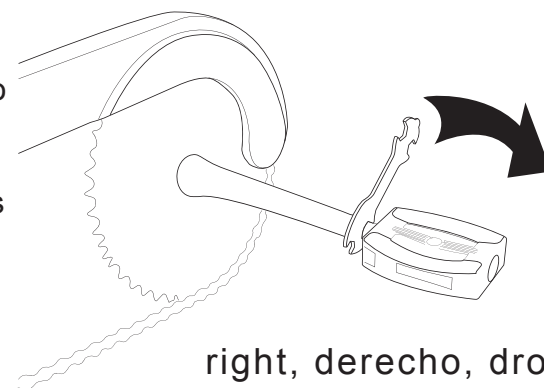
Step 2 Thread pedal marked "R" by hand into the crank arm turning it **clockwise** until secure.

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.

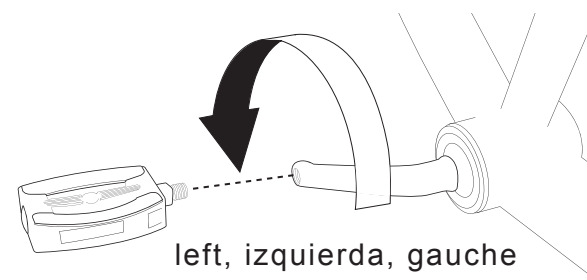


Check to see if the threads are aligned properly and the pedal axle is going in straight. You may need to unscrew the pedal axle and realign the threads before continuing to step 3.

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.)



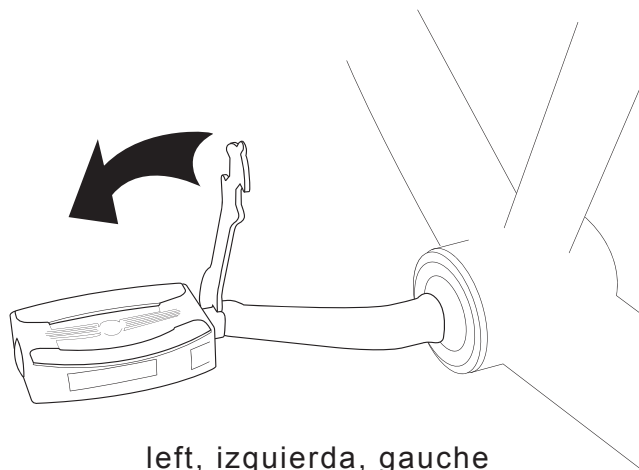
Step 4 Thread pedal marked "L" by hand into the crank arm turning it **counter-clockwise** until secure.



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 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 z torque is 28-30 ft-lb. or 35-40 Nm.)

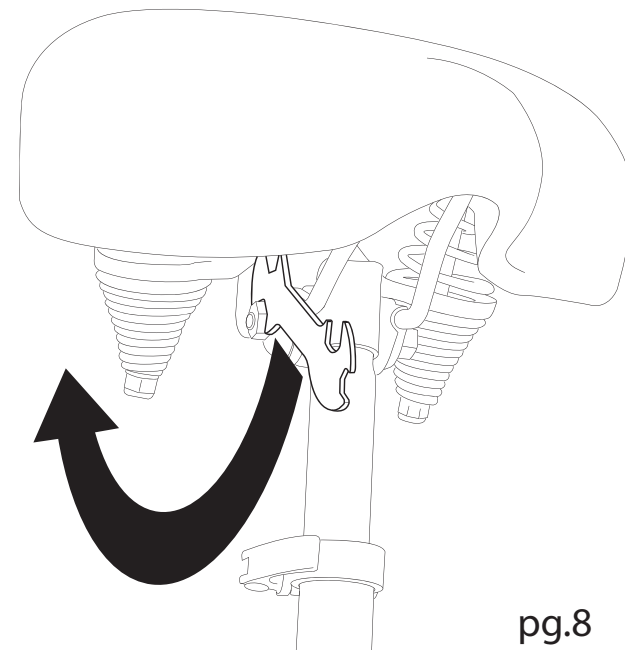
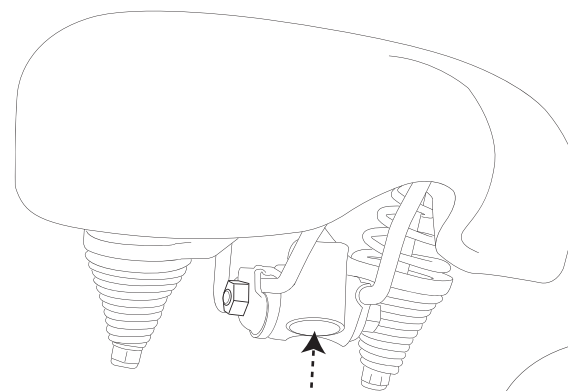


left, izquierda, gauche

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

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. Alternatively, try rocking the seat up and down. If the seat or seat post turns or rocks, realign and tighten the binder bolts until secure.



Install Seat

Step 1 Install seat on seat post as indicated. Note that seat post mounting "guts" and binder nuts & bolt come already mounted on seat, so seat should simply drop onto seat post. Tighten seat binder nuts with provided 15mm wrench, alternating sides so that when finished, equal amounts of seat bolt are showing on either side.

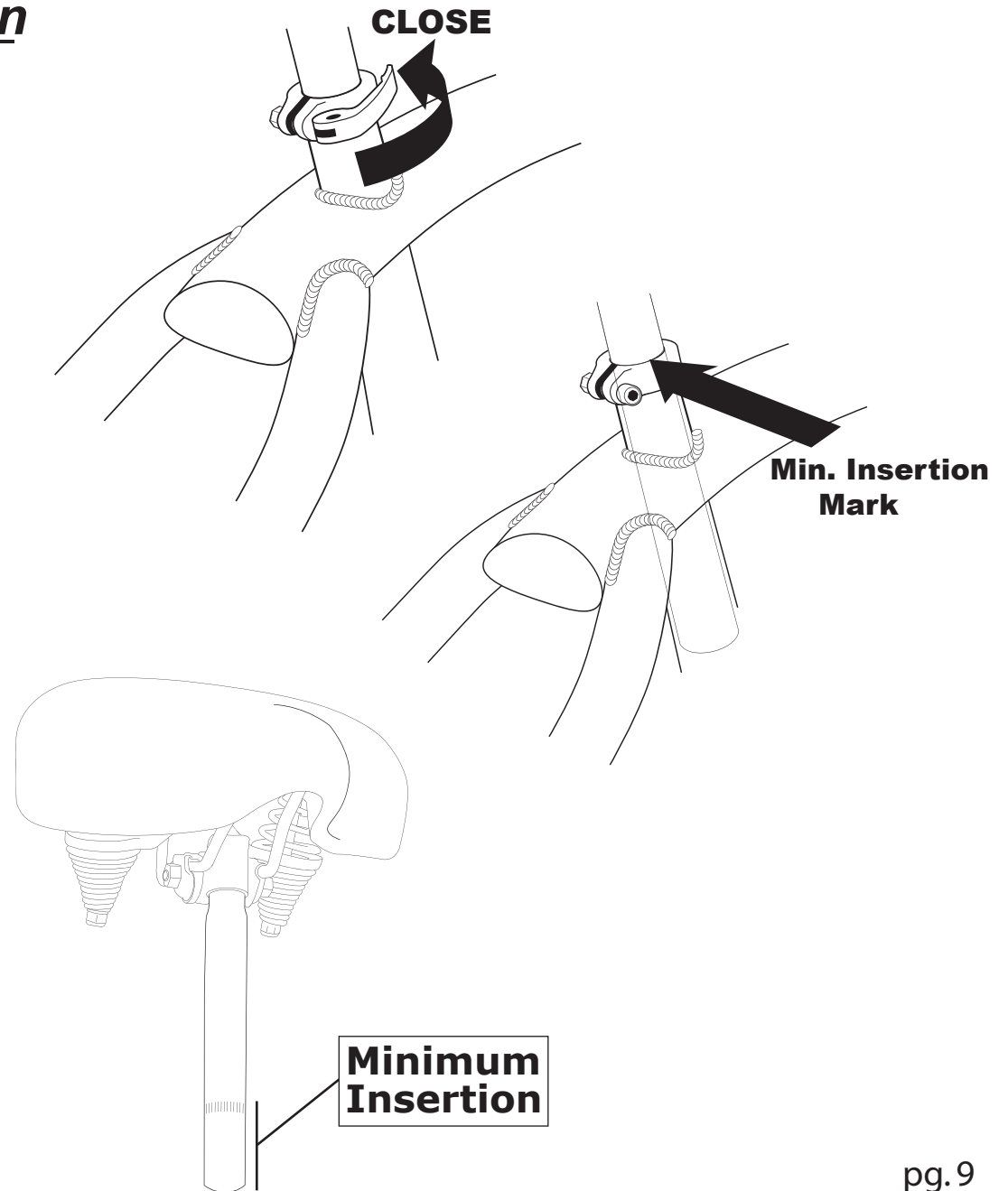
Seat & Seat post Installation

Install Seat post

Step 1 Models with standard binder bolt & nut - Lightly grease seat post. By using the supplied 5mm allen wrench, loosen seat post binder bolt, install and secure seat post. Be careful to note seat post height maximum warning above. Tighten binder bolt completely until secure (recommended torque is 8-12 ft-lb. or 11-13 Nm).

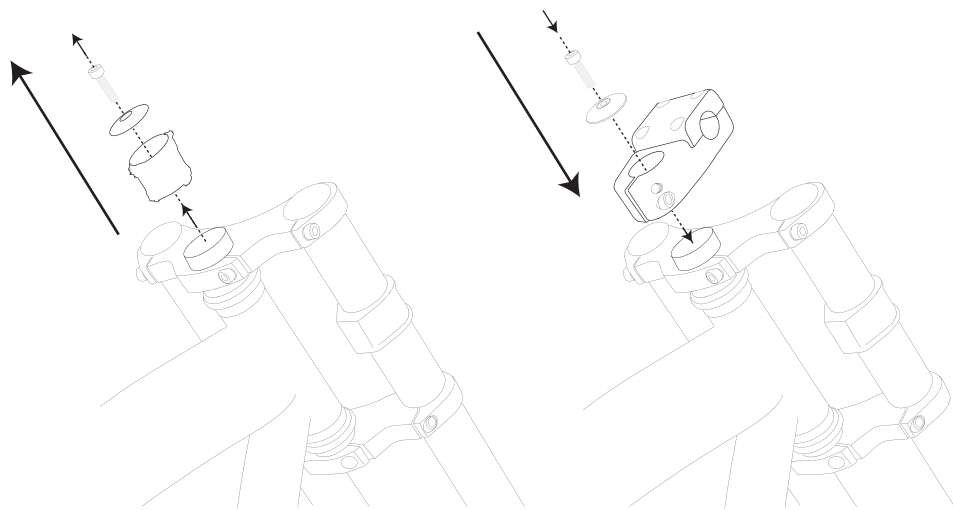
Models with Quick Release binder bolt - Loosen Quick Release clamp mechanism by pulling lever outward. Install and secure seat post. Secure seat post by closing quick release lever inward towards post.

Lever should require some force when closing to secure post from rotating. Quick release clamping force may be increased or decreased by tightening or loosening adjustment nut at opposite end of lever $\frac{1}{4}$ turn at a time with lever in open position. Raise or lower seat to desired height. **DO NOT** raise seat post beyond the Marked "minimum insertion" line.

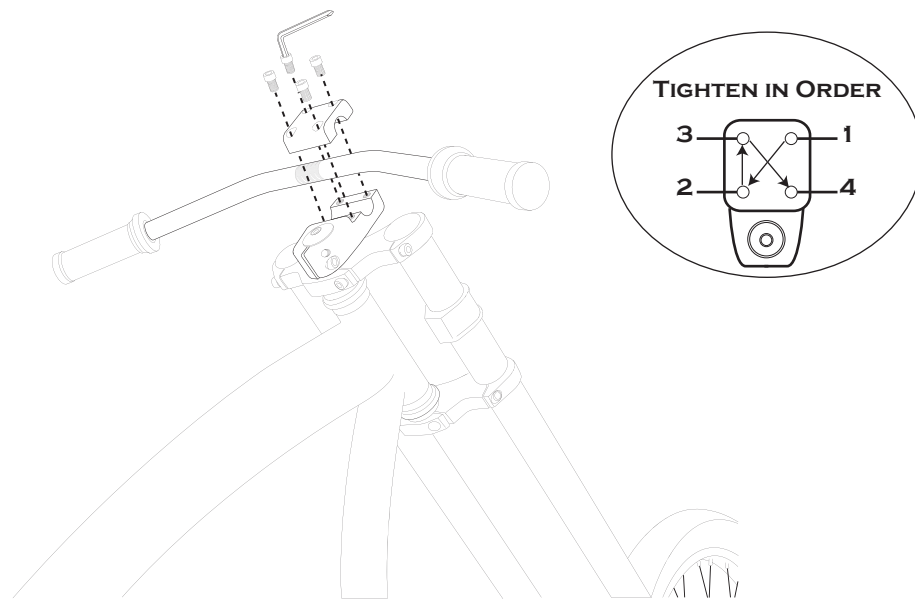


Chopper Handlebar Installation

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



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.

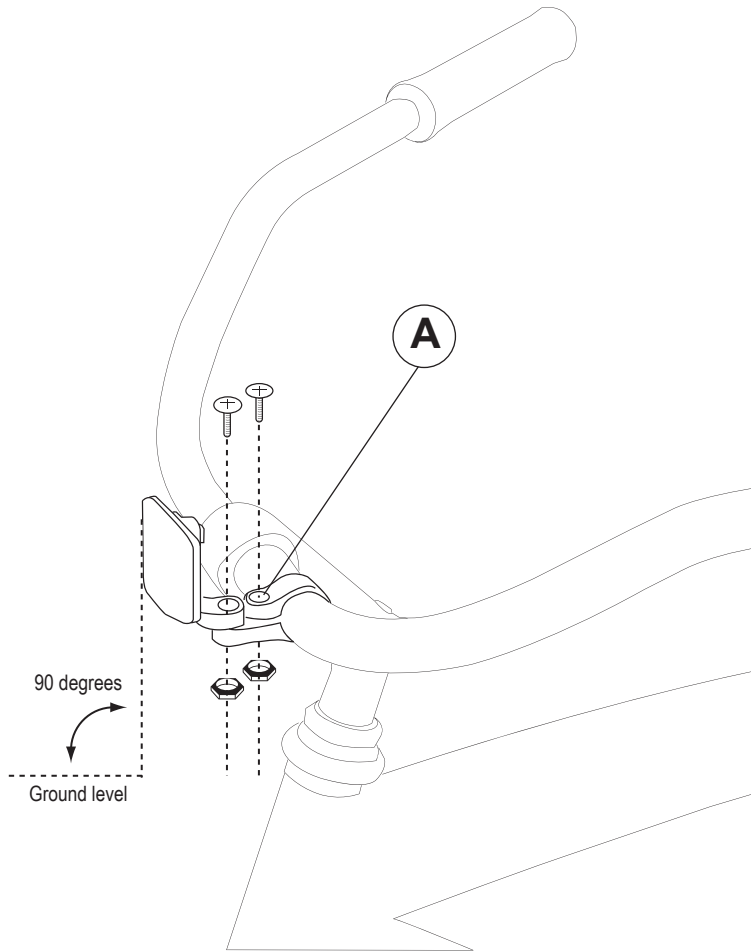
NOTE

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

Reflector Installation

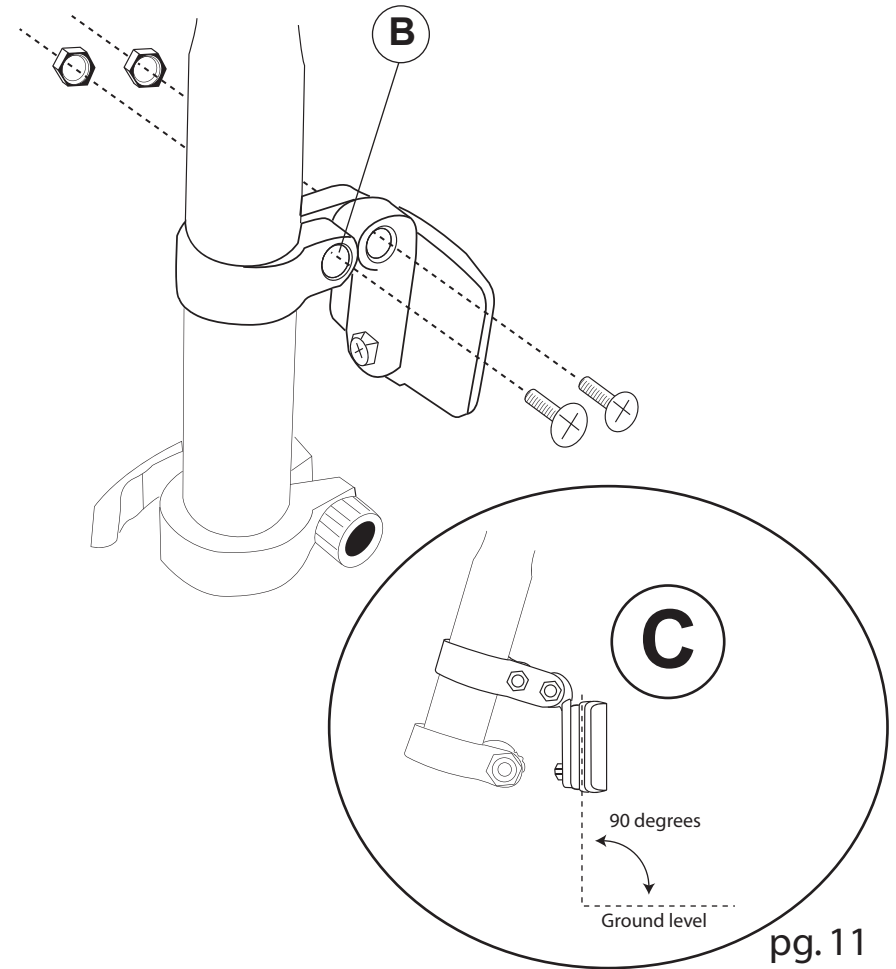
Handlebar Reflector

Install reflector over handlebar as indicated. It may be necessary to remove hardware from clamp portion (A) of reflector in order to fit over handlebar. Now that reflector is loosely on handlebar rotate the reflector until it is perpendicular to ground level as indicated in drawing. Tighten all hardware securely so the reflector does not rotate out of position.



Seat Reflector

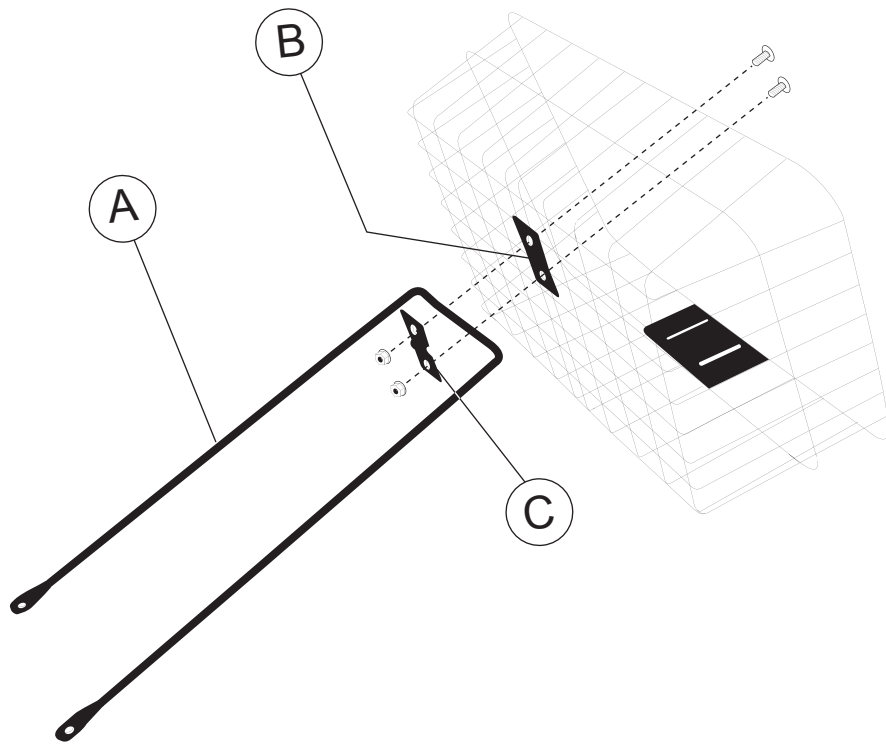
Install reflector around seat post as indicated. It may be necessary to remove hardware from clamp portion (B) of reflector in order to fit around seat post. Now that reflector is loosely on seat post rotate the reflector until it is perpendicular to ground level as indicated in drawing (C). Tighten all hardware securely so the reflector does not rotate out of position.



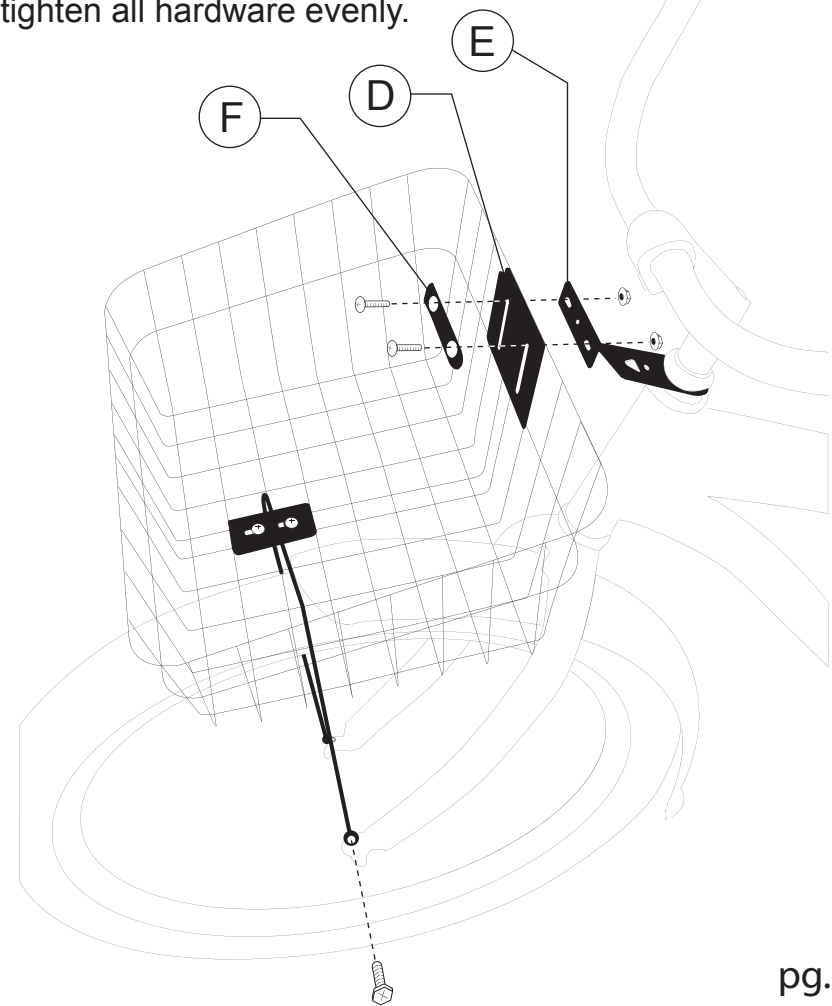
Bike Basket Installation

Front Basket

Step 1 Using the supplied hardware attach the basket support strut (A) to the basket at the base of the basket plate (B). Use the basket base clip (C) to secure strut to basket. Do not completely tighten basket hardware at this point. It will be necessary to rotate support strut to properly line up with fork for final installation.



Step 2 Using the supplied hardware attach the basket (D) to the basket mount bracket (E) located on the front of bike stem. Use the basket front clip (F) to secure basket to basket mount bracket. Tighten hardware until basket fits tightly up against basket mount bracket. At this point you will need to align the basket support strut holes with the threaded holes on the fork and tighten securely using provided hardware. Now that the basket is installed finish tightening hardware at bottom of basket plate. Be sure to tighten all hardware evenly.

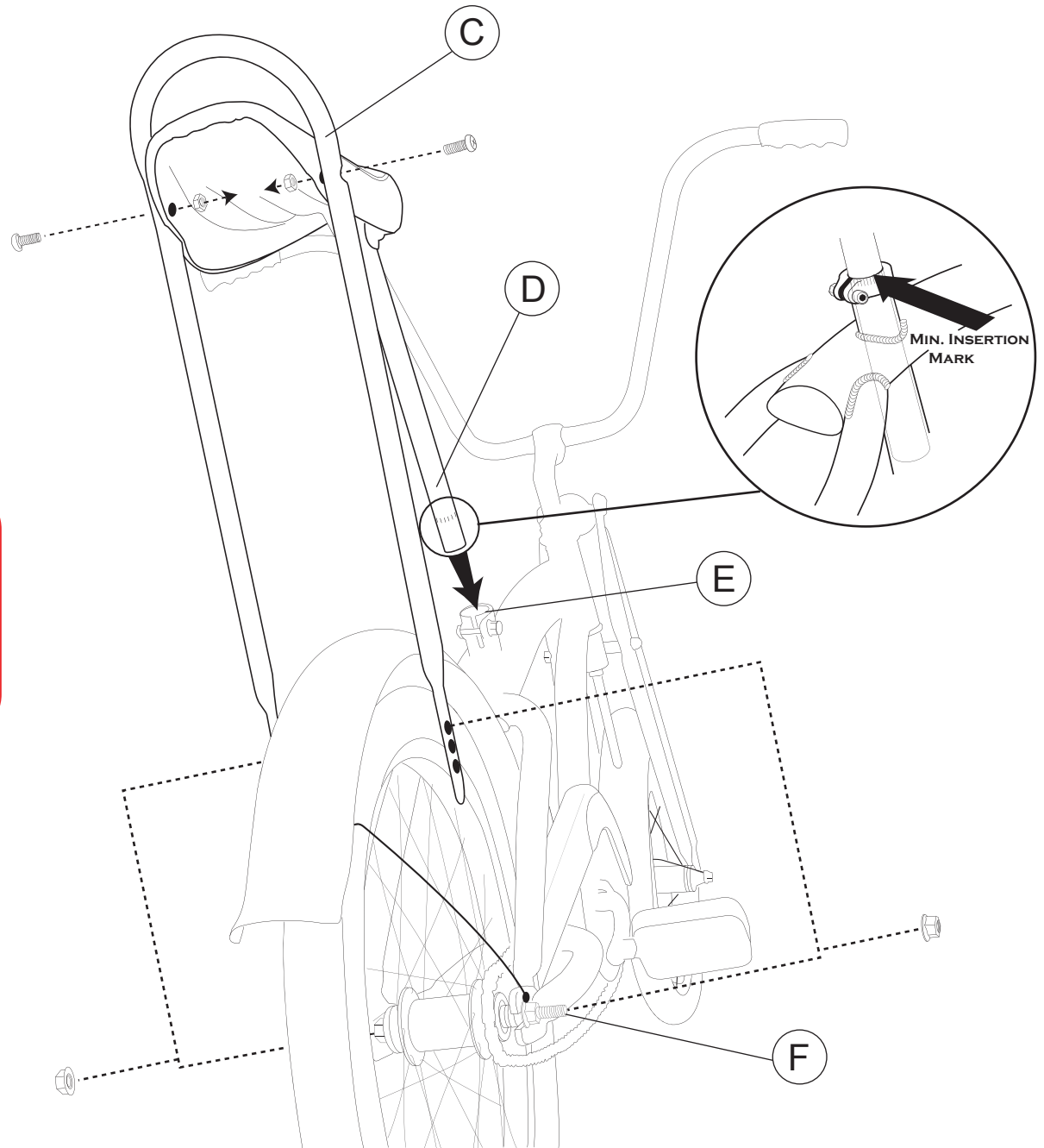


Banana Seat Installation

Begin by assembling sissy bar (C) to seat using provided hardware as shown in drawing. You will now be able to slide seat post (D) into seat collar (E) making sure to cover minimum seat insertion mark. At this time you will also need to line up sissy bar lower mount holes with axle posts (F). Using provided axle nuts tighten sissy bar over axel posts so that there is no movement in the assembly. Double check all hardware to be sure everything is tightened properly.

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



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 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 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 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>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>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>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>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.)