



BUFFALO UTILITY S1 [Code: CB-34]

Semi-Knocked Down (SKD) Assembly Instructions





TOOLS

Required tools

WBR toolkit



Diagonal cutters and utility knife for unpacking



OR

10mm open-end spanner



13mm open-end spanner



15mm open-end spanner



Spoke key for 13G spokes



Medium Phillips screwdriver



Bicycle pump with head appropriate for Schrader-type valve



Helpful tools

10mm socket



13mm socket



½" ratchet handle



2.5" x ½" ratchet extension



Consumables

General purpose grease



Rags/Clothes





SKD BOX CONTENT

Components pre-assembled/installed

- Bell
- Bottom bracket
- Brake lever with cable & housing
- Carrier
- Chainguard
- Crank
- Frame
- Fork
- Grips (installed on handlebar)
- Mudguard reflector (installed on rear mudguard)
- Rear mudguard
- Rear wheel with tubes & tyres installed
- Saddle
- Seat post
- Single speed chain
- Wheel reflectors (installed on spokes)

Components which need installing

- Center stand
- Stem with handlebar pre-installed
- Front wheel with tubes & tyres installed
- Front mudguard (mudguard stay pre-installed)
- Pedals

Components which need adjustments

- Handlebar position
- Attach servo brake and cable
- Inflate the tyres
- Adjust saddle post height
- Check the chain tension
- Check nuts and bolts
- Check wheels are true
- Apply any stickers

UNBOXING

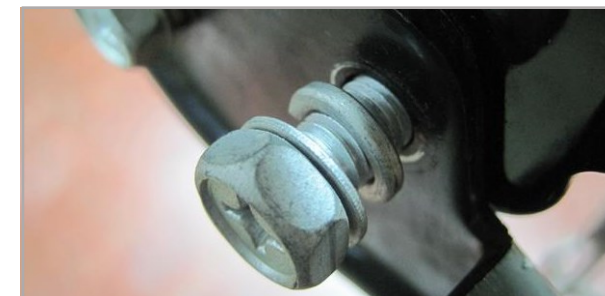
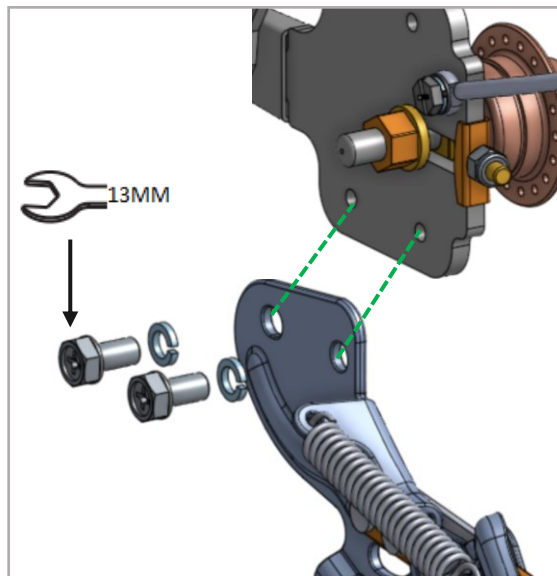
1. If there no bicycle stand available, unfold one of the packing cartons and place it on the floor to create a soft surface to conduct the bicycle assembly.
2. Remove the bicycle and all parts from the carton and place the bicycle on the floor so that it is standing upright.
3. Remove all packaging that will inhibit the assembly of the bicycle.
4. Turn the fork 180° so that the fork faces forward.



INSTALLING THE STAND

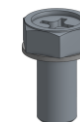
5. Turn the bicycle upside down so it is resting on the handlebars and saddle.
6. Install the stand using the four bolts. The spring washers should be placed under the heads of the bolts. Tighten the bolts firmly but do not over-tighten.

If you are using a torque wrench, the correct torque is 20-25Nm



Correct position of lock washer on the bolt

Stand bolts



QTY = 4
L = 16mm
D= M8

Spring washers

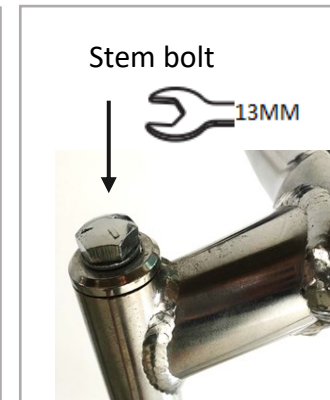
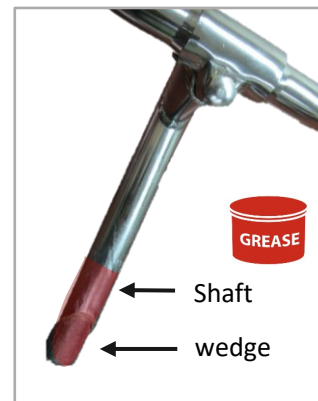


QTY = 4

7. Return the bike to its upright position and lock the stand in the down position and. The bike should now be more stable while standing on the floor.

INSTALLING THE STEM & HANDLEBAR

8. Apply a light coating of grease to the stem shaft and wedge,
9. Install the stem and handlebar into the steerer tube of the fork and tighten the stem bolt gently to hold it in place.

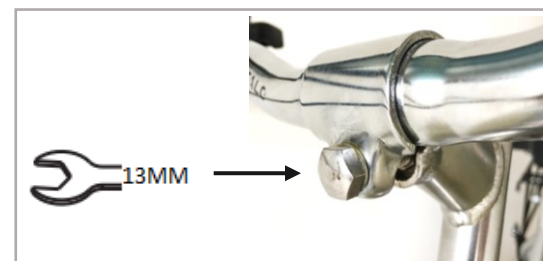


10. Loosen the handlebar clamp bolt and rotate the handlebars into proper position. The handlebars should place the rider's hands in a horizontal position when riding the bicycle.



11. Tighten the handlebar clamp bolt firmly but do not over-tighten.

If you are using a torque wrench, the correct torque is 16-20Nm.



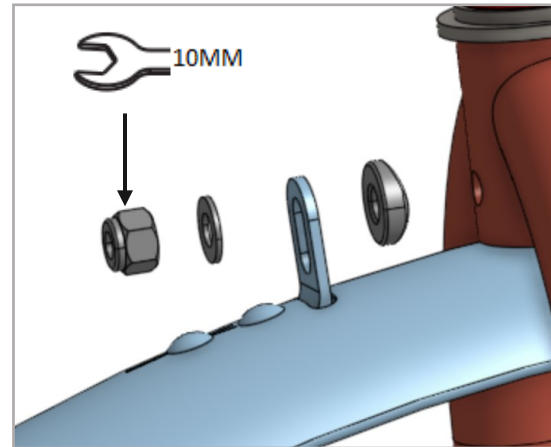
INSTALLING THE FRONT WHEEL & MUDGUARD

12. Install the front mudguard onto the back of the fork.



13. The bolt should be assembled in the order like the image.

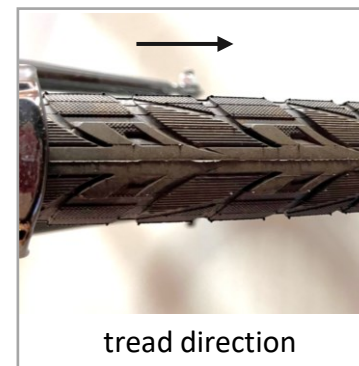
If you are using a torque wrench, the correct torque is 10Nm.



INSTALLING THE FRONT SERVO BRAKE (if applicable)

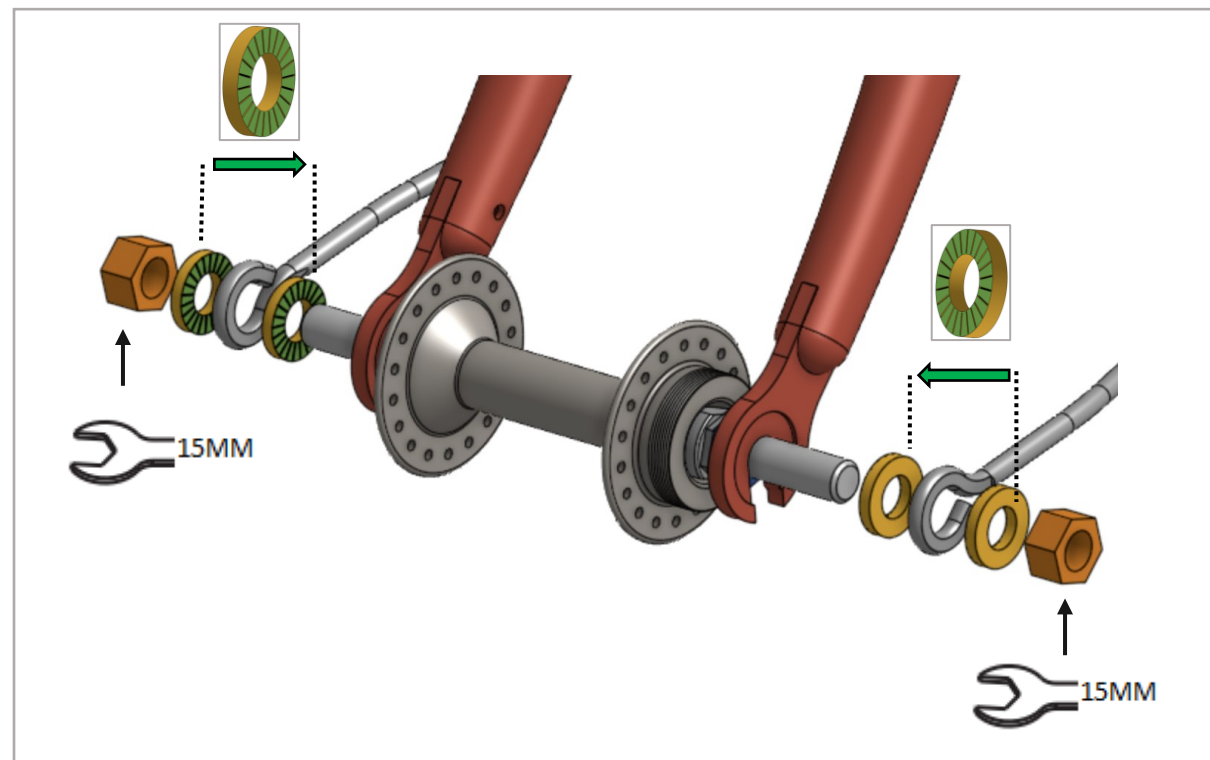
14. Install the front wheel.

The servo brake will be on the left side of the bicycle



15. Assemble the axle in the manner shown in the image. Ensure that the axle is fully engaged in the fork (the wheel should be centered in the fork). Tighten the axle nuts firmly.

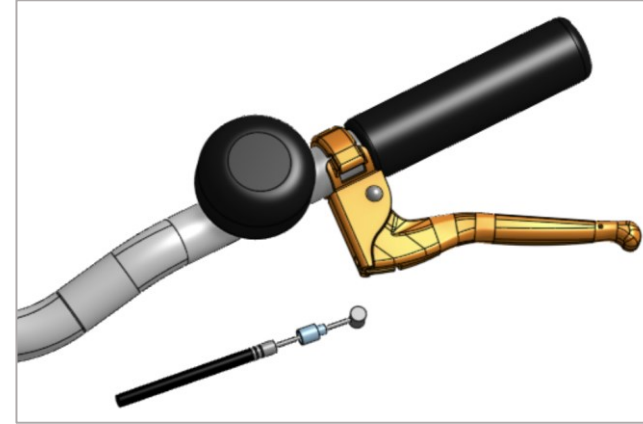
If you are using a torque wrench, the correct torque is 25-35Nm.



ATTACH FRONT SERVO BRAKE WITH CABLES

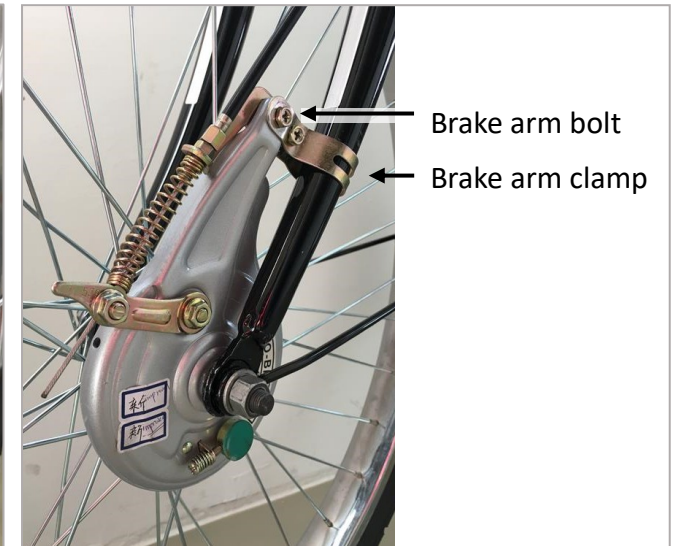
Only applicable if a front servo brake is included

16. Make sure the the brake cable is attached to the brake lever



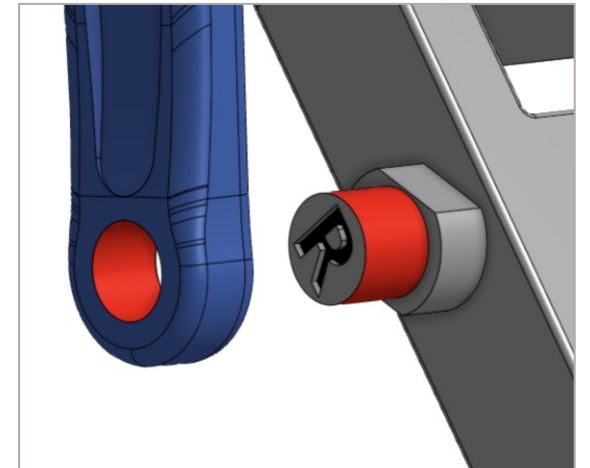
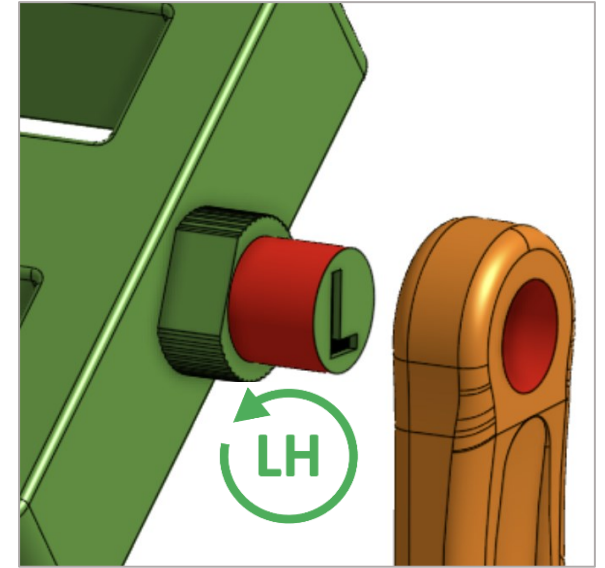
17. Install the brake arm clamp and cable before tightening the axle nuts. Once installed only then tighten the axle nuts firmly

18. The brake cable should be clamped at a point where the brake is not rubbing but will engage quickly when the brake lever is pulled.



INSTALLING THE PEDALS

19. The pedals are marked L (left) and R (right).
The left-hand pedal has a reverse thread and should be turned counter-clockwise to be tightened
 20. Lightly grease the threads of the pedals (like the red in the image). Install the pedals into the cranks.
- If you are using a torque wrench, the correct torque is 14Nm.

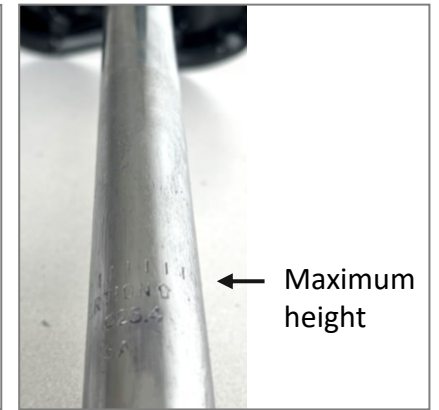


SEAT POST, TYRES

21. Inflate the tires so that they are firm and deform only slightly under the weight of the rider.

22. Adjust the height of the seat post by loosening the bolt at the clamp. Adjust to the desired height and then re-tighten the bolt. The seat post should not go higher than the markings.

If you are using a torque wrench, the correct torque is 18-23Nm.

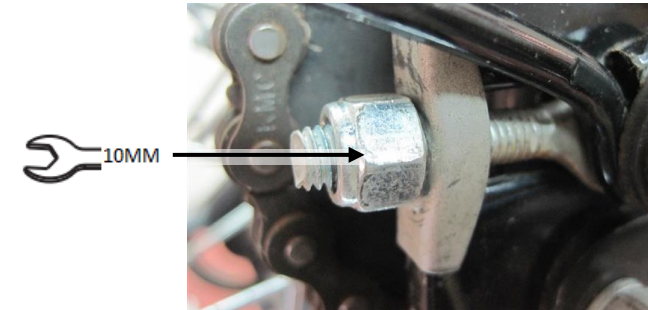


CHECKING THE CHAIN TENSION

23. The chain should be as tight as possible without causing any resistance to be felt when turning the cranks by hand.

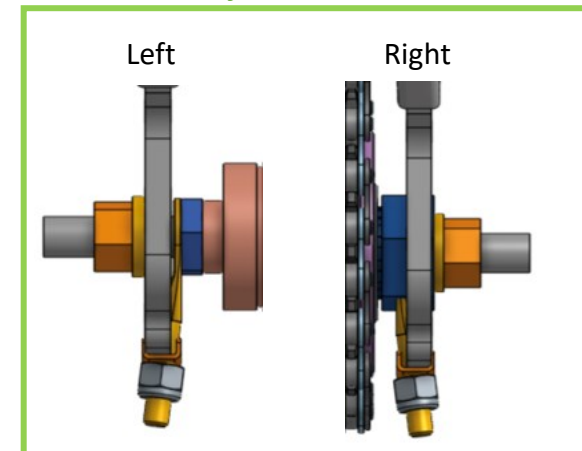


24. To adjust the chain tension, loosen the axle nuts and the brake arm bolt then adjust the chain adjuster nuts in or out.

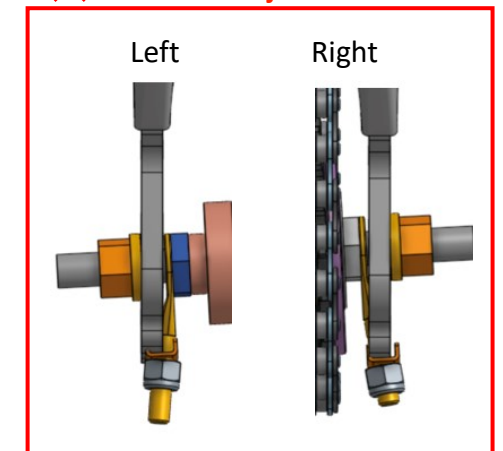


25. Both left and right adjusters must be turned to keep the wheel centered in the frame. Re-tighten the axle nuts and brake arm bolt.

✓ Correct adjustment



✗ Incorrect adjustment





CHECKLIST

25. Check for any loose nuts and bolts and adjust them. Do not over-tighten nuts and bolts.

26. Check that the wheels are true. Adjust the spokes nipples if they are not. Note: Since describing wheel truing with words is very difficult, it is best to find a person who has experience with the task.

27. Wipe the frame with a clean rag and apply any stickers.