

+AddBike



The AddBike+ instruction manual

February 2021

This manual will teach you how to assemble/disassemble and use the AddBike+ correctly. It is imperative you read this manual entirely to keep your bike and the AddBike+ in good condition.

Please keep this instruction manual.



The AddBike+ is a new concept that replaces your bike's front wheel in order to turn it into a handy three-wheeled bike, perfect for moving around in big cities. It consists of a two-wheeled base that allows you to transport light loads and attach different modules specifically designed for the AddBike+. These modules adapt your AddBike+ to transport heavier or bulkier loads, your shopping or even your children!

We welcome you to the Addbiker Family!

No more need to invest in expensive and bulky three-wheeled cargo-bikes, thanks to the AddBike+ you will be able to easily and quickly transform your normal bike into a three-wheeled cargo one!

This version is compatible with the following modules:


- Carry'Box
- Carry'Box Kid
- Carry'Dog


Maximum capacity	
Load	35 kg 77lbs
Measurements (LxWxH)	
Addbike+	71cm x 59cm x 83cm 28" x 23" x 33"
Available base volume	45cm x 32cm x 60cm 18" x 12.6" x 23.6"


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1. General Warnings

Symbols and warnings :

	WARNING ! This symbol indicates a hazard that could result in serious injury if the instructions are not followed.
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	CAUTION ! This symbol indicates a hazard that may result in minor injury if the instructions are not followed.
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	TIP ! This symbol indicates a use or maintenance tip.
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The AddBike+ is compatible with most bikes, however it is necessary that your bike is in perfect condition, has efficient rear brakes and is certified by the ISO 4210 standard. If the instructions are not followed and the AddBike+ is misused, the bike's threaded headset could be damaged.

Please read and follow these instructions: Read the entire guide carefully and follow the instructions to use the AddBike safely. If you do not understand certain indications, please contact your AddBike dealer or contact AddBike directly at support@addbike.fr. Please keep this manual for future reference. It is also important to take into account the host bike instructions.

The AddBike company denies any responsibility in the following cases: failure to respect the instructions in the AddBike+ manual and/or the product's alteration by the user.

Generic risks

Just like the use of any conventional bike, the use of an AddBike+ could lead to injuries and/or damage (mainly by falling). By using the AddBike+, you accept full responsibility for these risks. You need to know and apply road traffic regulations to ride safely. If not, you risk getting fined or having other legal issues.

Using the AddBike+

The AddBike+ is designed to be used in cities, on asphalted surfaces. Do not try to go down the stairs or jump on and off pavements higher than 5cm/2 inches. Do not use the AddBike+


on rocky surfaces or any other surface that is not flat. Overall, avoid any obstacle in your way that could damage parts of the AddBike+.


If you choose to use your AddBike+ in the evening, at night or in any other situation in which you could have low visibility, you must use appropriate lighting, as specified in the Traffic Laws.

The AddBike+ is not designed to be used in sand or salt-water environments.

The AddBike+ is not designed to be left outdoors for an extended period of time. It must be stored in a dry and temperate place away from corrosive products.

Regularly maintaining the AddBike+ allows you to keep its original use and safety features.

	<p>It is forbidden to use the AddBike+ on the following bikes:</p> <ul style="list-style-type: none"> • Bikes with a wheel diameter over 73cm / 29 inches. • Bikes with only 1 fork end. • Bikes with racing handlebars. • Bikes with a carbon fork. • Children bikes. • Fat Bikes. • Speed Bikes (electric bikes with a speed over 25 km/h 16 mph)
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	<p>Special kits (not included) are by AddBike to fit the AddBike+ onto the following bikes:</p> <ul style="list-style-type: none"> • Bikes with a wheel diameter ranging from 40cm to 51cm / 16 to 20 inches. • Bikes with front wheel axle diameter ranging from 12mm to 15mm / 0.5 to 0.6 inches ; <p>Ask your dealer or contact AddBike directly.</p>
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2. The AddBike+ Glossary

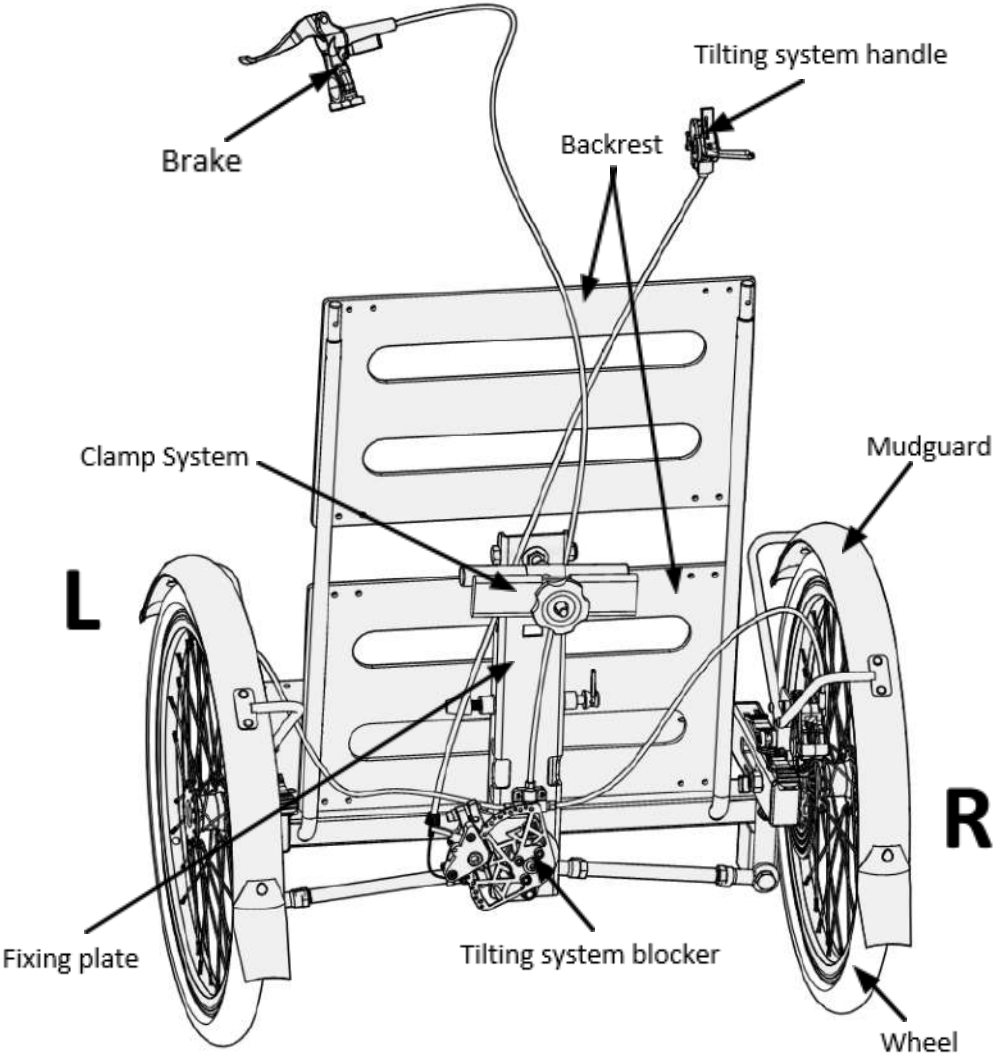
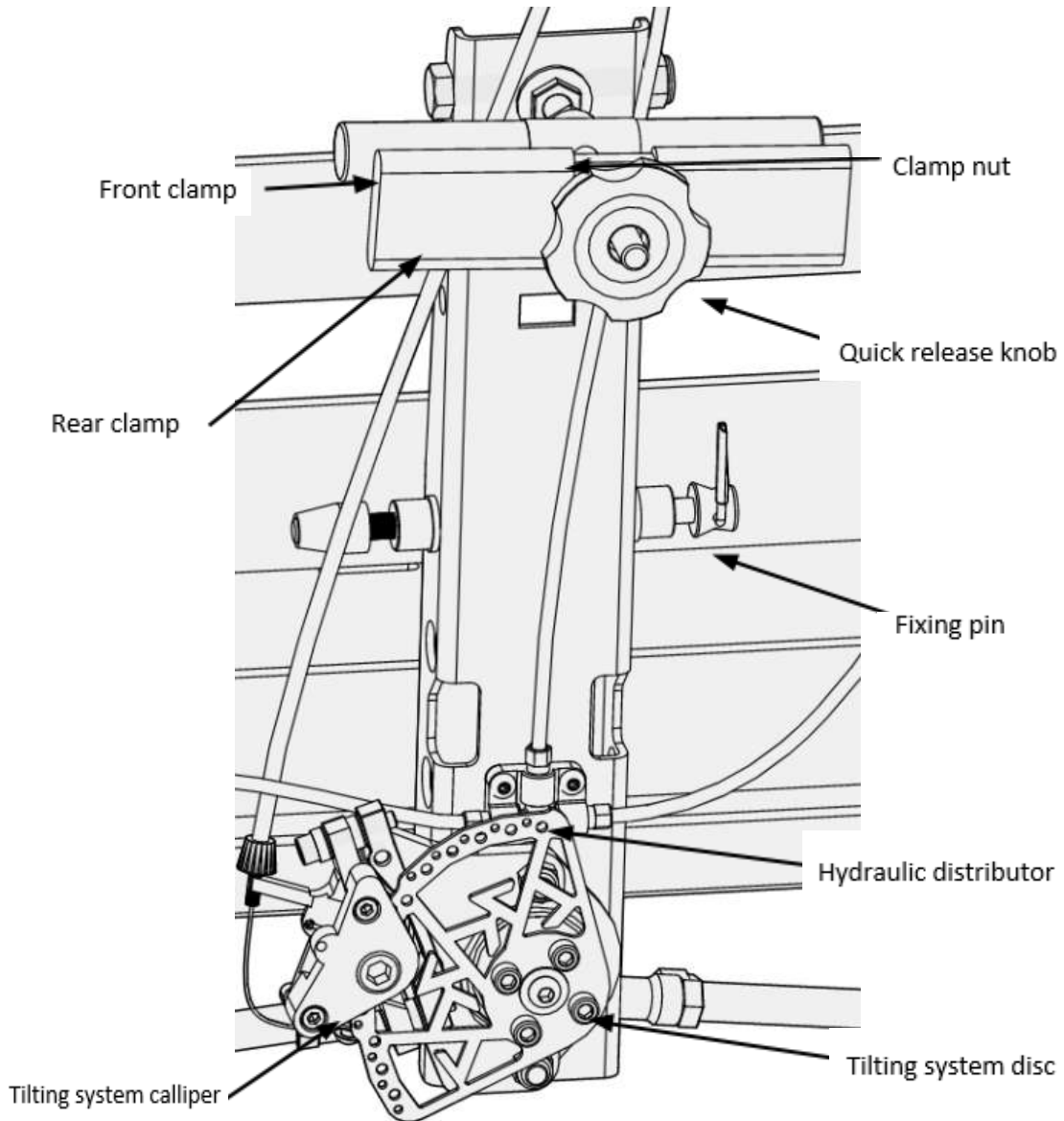
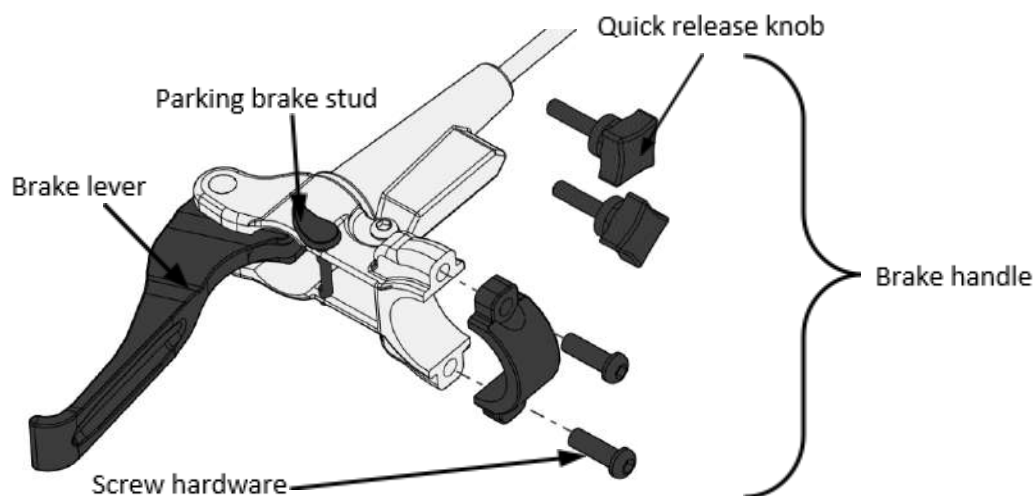
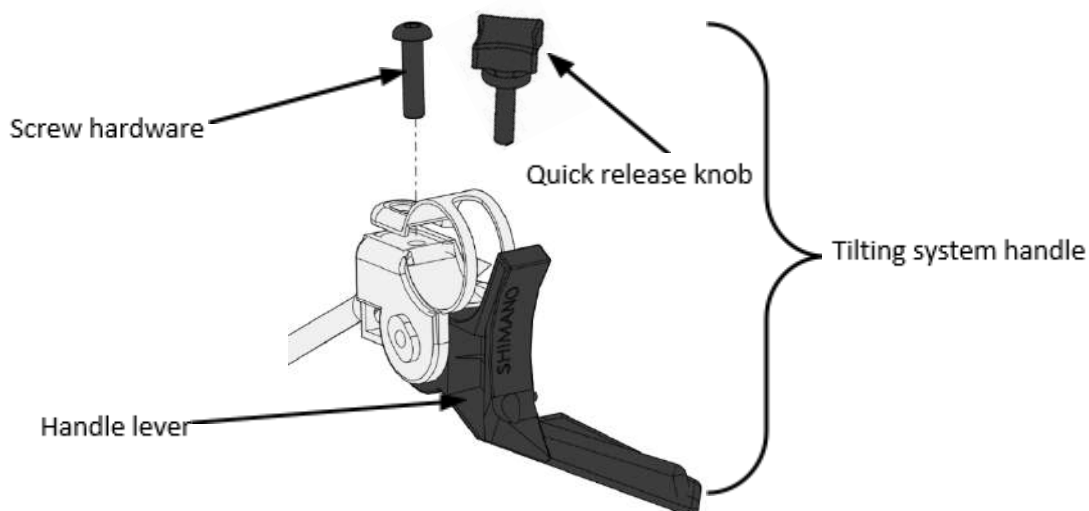


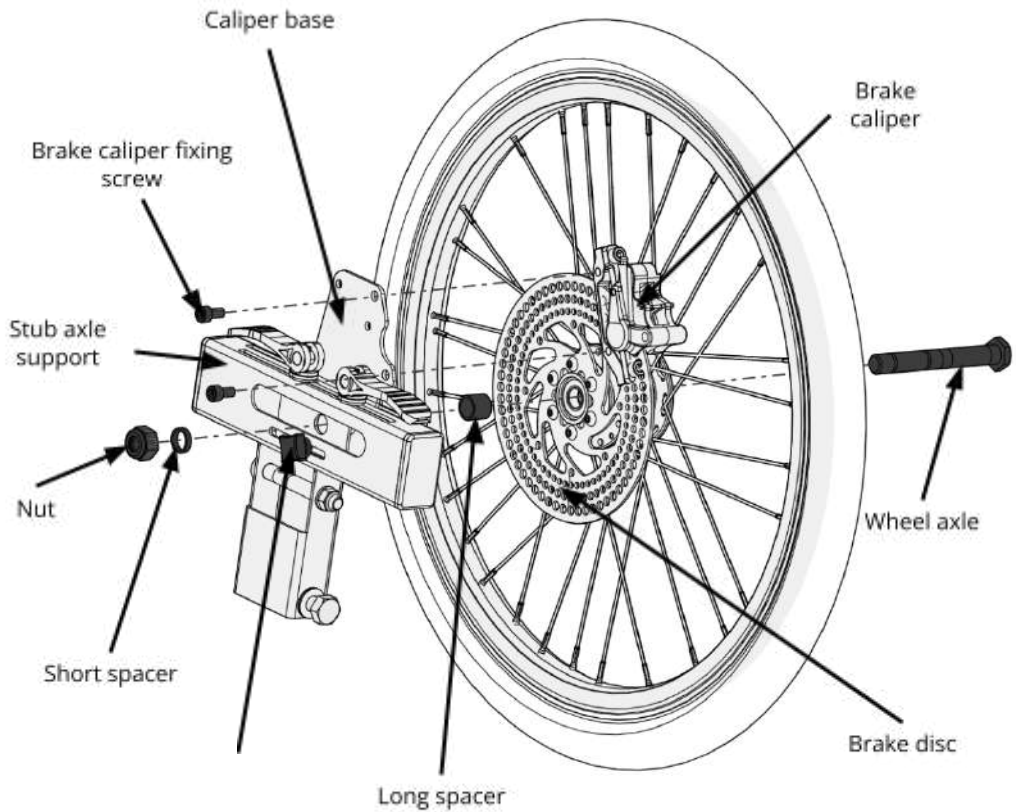
Illustration 1: The AddBike+ Glossary



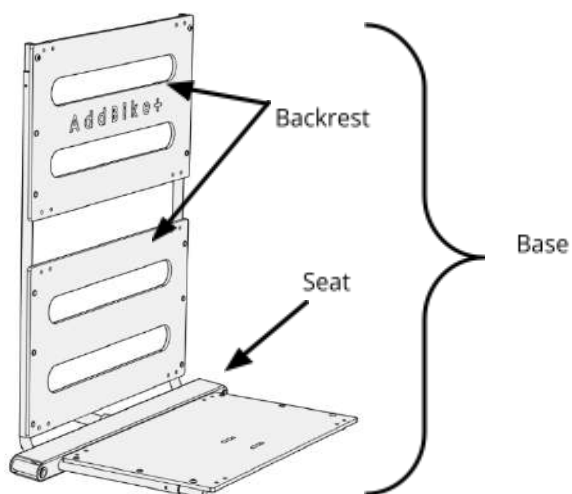
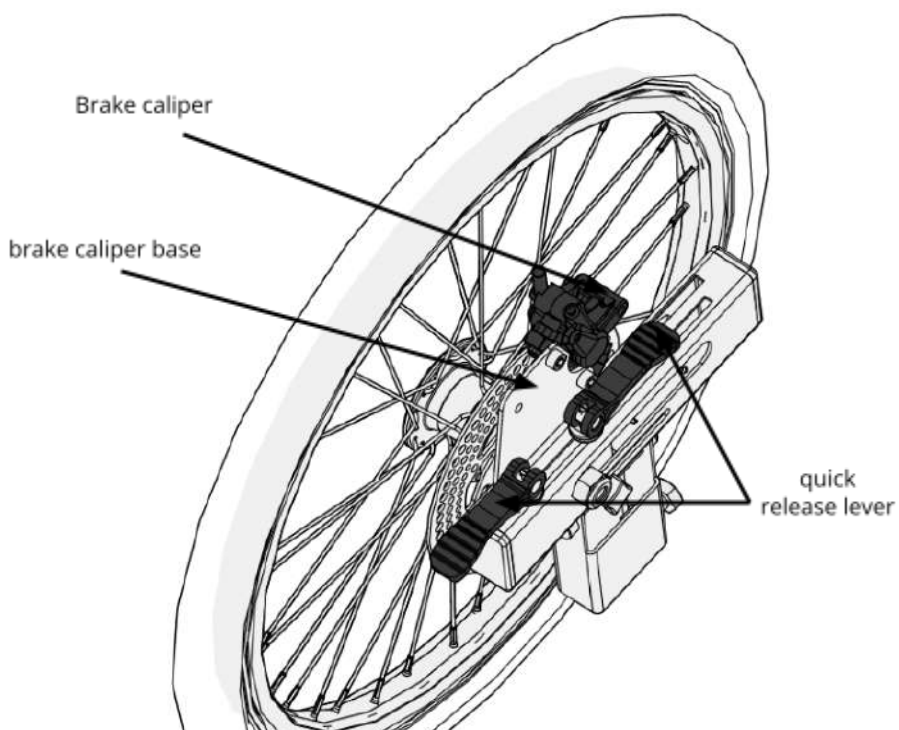


The screw hardware can be replaced by quick release knobs (i.e., illustration 2) included in the AddBike+ instruction bag.





Memo: The quick release levers are not shown in illustration 5 to allow a clearer reading of the elements fixing the wheels and brake calipers. For the quick release levers position please check illustration 6.



3. Tips and advice for using the AddBike+ safely

Wear a helmet



Always wear a helmet when you use the AddBike+ to protect your head in case you fall.

Using the AddBike+ for parking and/or loading, unloading

To ensure safe loading and unloading, we recommend that you use the parking brake on the AddBike (located on its brake lever) to stabilize the bike (i.e explanations in chapter 9.D.) Using the parking brake is also recommended when parking your bike for extended periods. In addition, for more security, you can activate the tilting wheels lock to avoid a lateral inclination using the tilting wheels handle designed for this (i.e explanations in chapter 9.E.)

Check that the parking brake is deactivated, and that the tilting wheels lock is off before riding your bike.



Never ride your bike with the tilting wheels lock on

Lighting

It is expressly forbidden by traffic laws to ride at night or in bad weather without lighting. You must be visible to other road users:

- Wear reflective and clear clothing, turn on your bike's front and back lights.
- Your bike must have rear and front lighting.



If The AddBike+ and the lighting devices on the original bike are not compatible, we recommend adding a front light that is compatible with the new set (on the handlebar for example).

AddBike offers an option of lights to put on each mudguard. Ask your dealer or contact AddBike directly.

Drive accordingly

It is important to drive according to the conditions in which you use the bike (weight and volume of the transported load, wind, rain, brightness, etc.).

In case of strong wind, the weight on the AddBike might make you lose balance or to make sudden turns: it is important to take this element into account when riding.

When using your bike in rain or on wet surfaces, be careful as the braking distance may increase and the grip may decrease. Also, the braking symmetry between the two wheels can be altered if one of the brake discs is wetter than the other. In this case, the discs should be cleaned with a dry cloth and a suitable degreaser.



The AddBike+ has hydraulic disc brakes. When they are under a lot of pressure, calipers, discs and pads become extremely hot. In case of skin contact, a risk of burn is possible. Always wait for the brake to cool down before cleaning.

Always control your speed, avoid gaps

Except if you want to indicate a change in your direction, you must always hold the handlebar firmly with both hands to be able to control your bike as much as possible (depending on the bumpiness of the roads, movement in the handlebar may change your course).

Respect safety and traffic regulations

When using the AddBike+, you must follow the traffic regulations (different signs, traffic direction, no riding on pavements, etc.). Respect the traffic regulations of the country in which you are riding your bike, especially when it concerns lighting and warning sounds.

Adjusting and checking the original bike

Always remember to control the rest of the bike and make your usual adjustments for maximum driving comfort.

4. Contents of the AddBike+ box

The AddBike+ box contains:

- AddBike+ frame

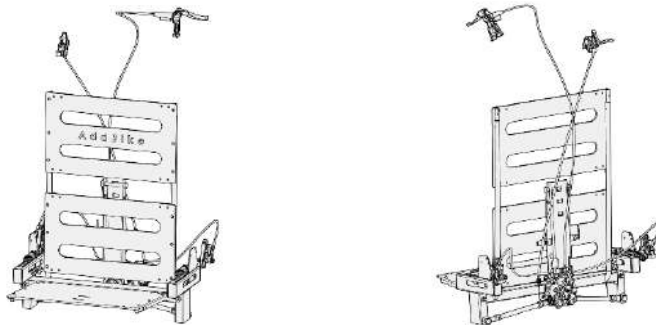


Illustration 8: Addbike+ frame

- Wheels and mudguard

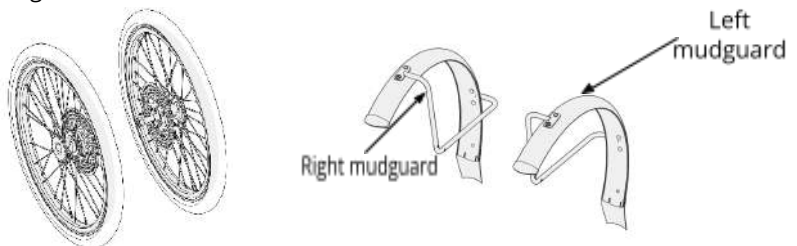


Illustration 9: the AddBike+ wheels and mudguards

- Clamp system



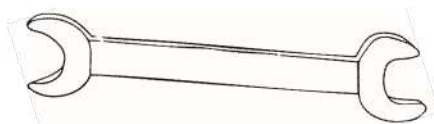
Illustration 10: the AddBike+ clamp system

- A bag containing:
 - o The AddBike+ instruction manual.
 - o The brakes' instructions "Tektro Auriga Twin".
 - o Two protection stickers.
 - o The AddBike cable clamp.
 - o 3 quick release knobs: 2 for the brake handle and 1 for the tilting system handle.

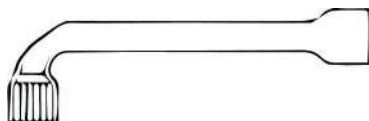
5. Assembling the AddBike+

Your AddBike comes partially disassembled, so you will need to assemble the different parts before fitting your AddBike+ on your bike.

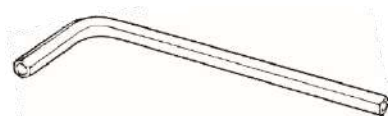
This must be done only once, except if you wish to transport it in its original box. To assemble your AddBike+, you will need the following tools:



8mm / 0.3" | 17mm / 0.6" | 19mm / 0.7"



8mm / 0.3" | 17mm / 0.6" | 19mm / 0.7"



3mm / 0.1" | 4mm / 0.15" | 5mm / 0.2"

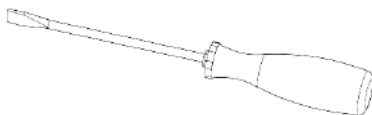


Illustration 11: Required tools

- Take out the whole content of the box and close it.
- To help the assembling, place the AddBike+ without its wheels on the box, in the position shown below (i.e. Illustration 12);

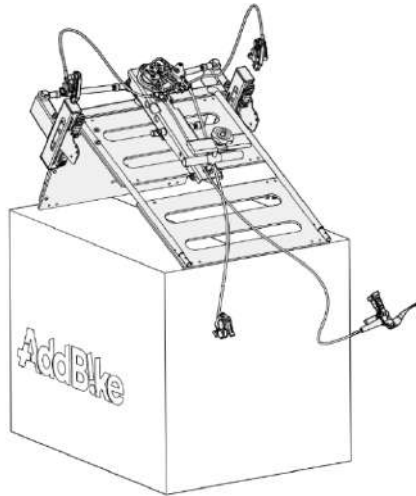


Illustration 12: AddBike+ without its wheels or mudguards on the box

It is easier to assemble the mudguards and the brake calipers before installing the wheels on the AddBike+ frame.

- Each mudguard and caliper are to be fixed to a caliper base (i.e. illustration 5) as shown below. Unscrew the bolts and nuts from the mudguards, then place and fix them on the brake caliper using the same bolts and nuts, the screw head oriented towards the mudguards' support as shown in the illustration. The screw head, mudguard tube arms and washers must be located on the inside of the AddBike+ as shown in illustration 13. Please place the washers between the mudguard tube arms and the base.

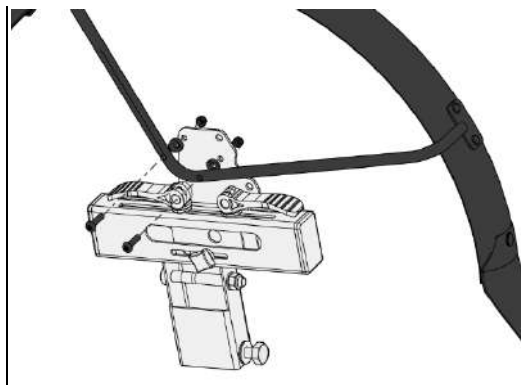


Illustration 13: Fixing the mudguard on the caliper base

You can now put the wheels on the AddBike+



Be very careful to put the wheels on the correct side by checking the letter on the hub: L for Left and R for Right.

To do so:

- Remove both the nut and the short spacer from each wheel axle, leaving the long spacer and the wheel axle in place (*i.e., illustration 5*).
- Put the wheels on the stub axle base and partially withdraw the wheel axle while keeping the long spacer in place, put the brake disc on the caliper, push the wheel axle and put the short spacer and nut back.
- The elements must end up in the following order: wheel axle, wheel, long spacer, AddBike+ stub axle base, short spacer, and nut (*Cf. Figure 14*).

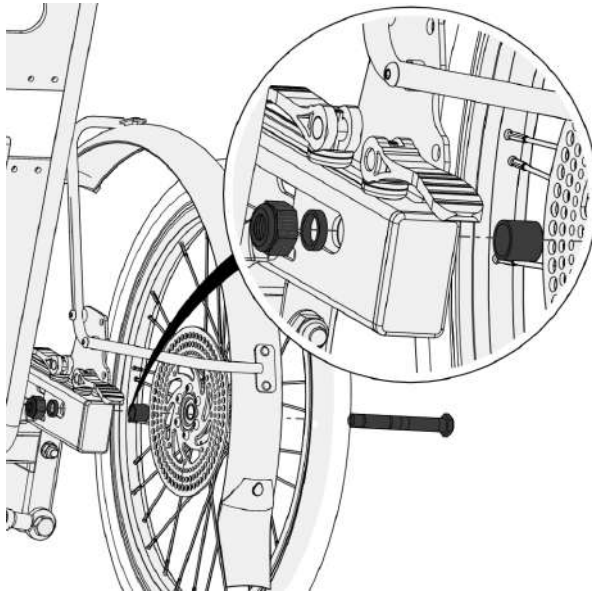


Illustration 14 - Putting the right wheel on the Addbike+

- Tighten the nuts on the wheels' axle using the 19mm open-jaw key on the inside of the AddBike+ and the 19mm pie key on the outside in order to hold the screw.



It is normal, when tightening, that the threaded part of the wheel axle does not come out of the Nylstop nut.

- To install the brake caliper, you will first need to dismantle the screw hardware and then reassemble them as shown in illustration 15. The brake cable must go through both mudguards' supports as shown in the illustration; the brake cable must have a loose sinusoidal form (i.e. illustration 16);



Each one of the two brake calipers (left and right) are already positioned on the correct side of the AddBike+ thanks to the hydraulic distributor on the Addbike+ fixing plate.

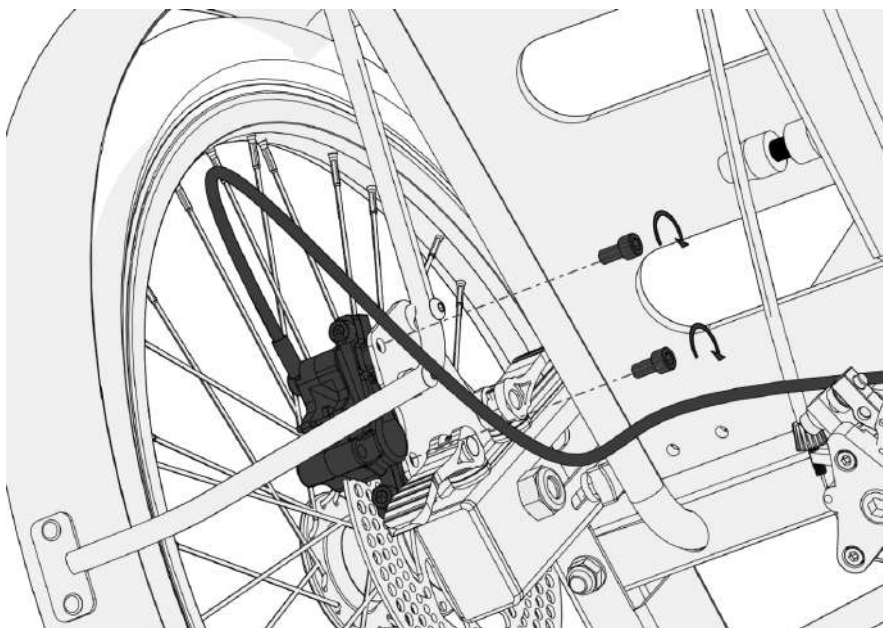


Illustration 15 - Putting the left caliper on the caliper base

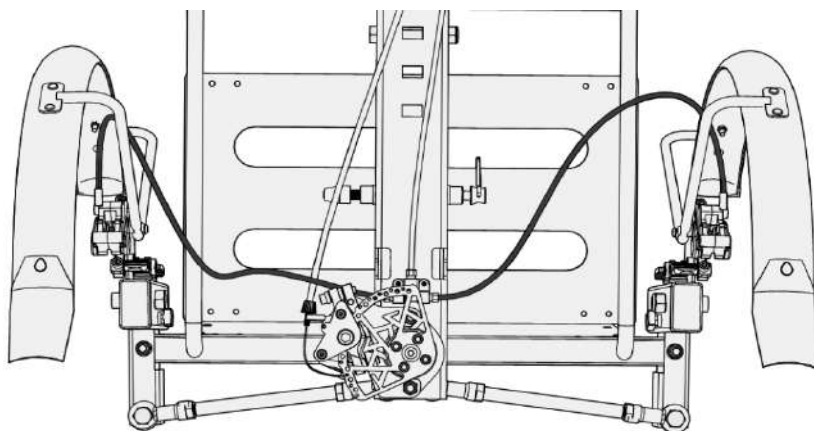


Illustration 16 - The brake cables' sinusoidal shape

- Adjust the brake calipers position. To do so, activate the parking brake in order to block the calipers on the discs (check chapter 9.D). Then tighten the screws on each brake caliper (i.e., Illustration 22).



Adjust your brakes even before the first use

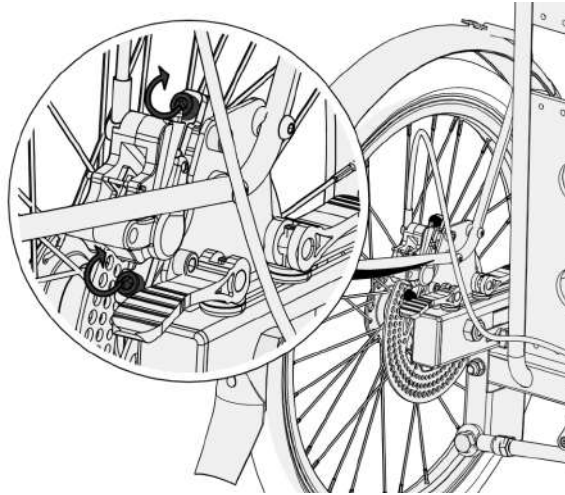


Illustration 17 - Brake calipers position adjustment

- At first, the wheels must be positioned as far back as possible (without loads (i.e., illustration 18 and 19). Keep the brake in parking mode. Loosen the two quick release levers and the locking knob as shown on illustration 18 and slide the wheel backwards by holding it by the hub. Once the wheel is in position, tighten the quick release levers and the locking knob. (i.e., illustration 19). Do the same with the other wheel so that both wheels are positioned at the same level. Check chapter 9.F.

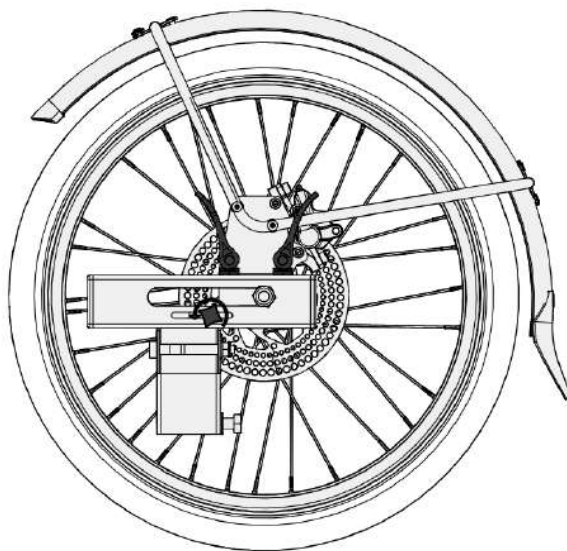


Illustration 18: Levers and locking knobs loose on the right wheel

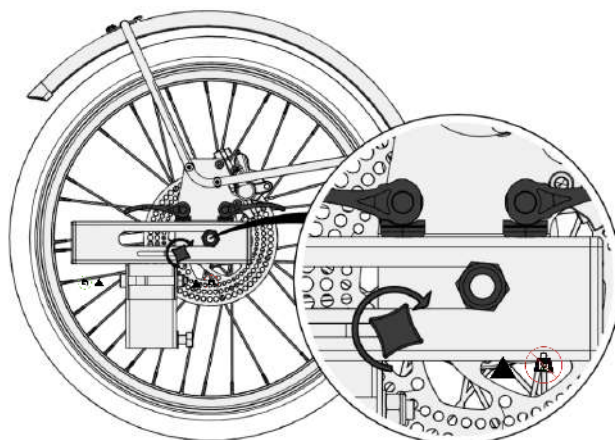


Illustration 19 - Positioning the wheels for the first time (right wheel)



When tightening the quick release lever for wheel locking, make sure to position them in a parallel to the wheels. It is important that the quick release levers are not crooked in order not to interfere with the tilting motion of the AddBike+ (i.e., Illustration 20).

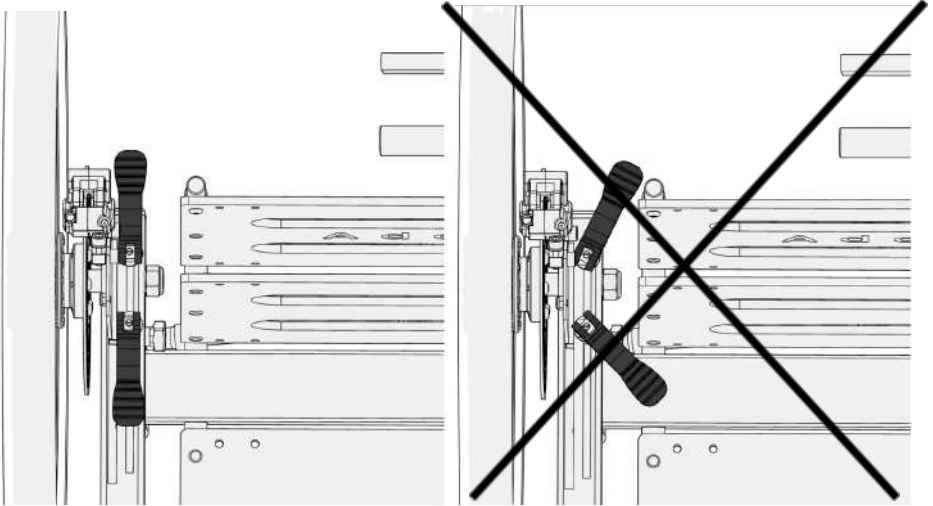


Illustration 20 - Quick release position - view from above

Here is a back view of the AddBike+ after assembly:

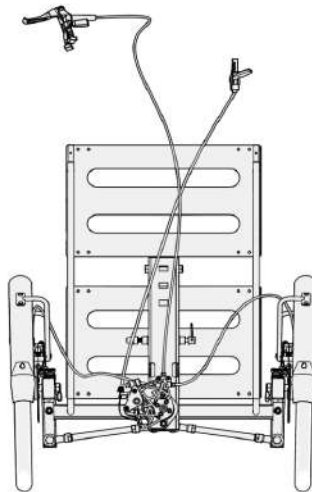


Illustration 21 - Back view

If you have trouble assembling your AddBike+, please contact your dealer or contact AddBike+ directly at: support@addbike.fr

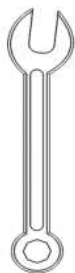
6. Fitting the AddBike+ on the original bike

You will find a video showing the fitting and removal of the AddBike+ on a bike on our website: www.add-bike.com



The AddBike+ must be fitted and removed as explained. Improper fitting/removal can lead to accidents that could cause serious injury.

To fit the AddBike+ on the host bike, you will need a set of Allen keys and open-jaw keys. Remove your wheel with the appropriate tools (i.e., Illustration 22).



Set of open-jaw keys
(The size can change
according to your bike)



Set of Allen keys
(The size can change
according to your bike)



Crosshead or flathead
screwdriver for the
tilting system lever

Illustration 22 - Tools needed

A. Preparing your bike for the AddBike+



Check the condition of your bike; there should be no visible cracks or twisted elements. If this is the case, do not install the AddBike+ on this bike.

Remove any parts that interfere with the installation and/or use of the AddBike+.

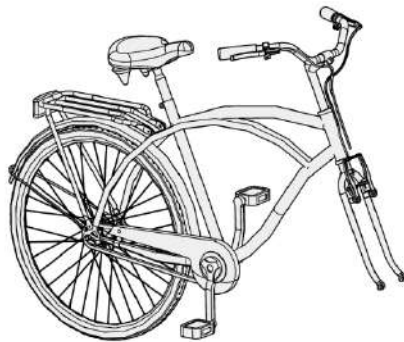
Some parts of the bike may interfere with the installation and/or the use of the AddBike+. For example, it is very important to remove the front mudguard, the front basket, and the front dynamo. For other elements, such as the front lighting, it is necessary to check their compatibility with the AddBike+ before deciding whether to keep them or not. If there is a friction between the AddBike+ and/or its modules and an element of your bike, You must remove the element causing the problem.

B. Fitting the AddBike+

Step 1: Remove your bike's front wheel



Your bike with the front wheel



Your bike without the front wheel

Illustration 23 - Your bike with and without the front wheel

Depending on the brake and attachment system of the front wheel, disassembly may vary. Therefore, you must identify the braking system of your bicycle. It is also imperative to read your bike's instructions.

- In the case your bike has rim brakes, pull the brake cable out of its casing to remove the brake system from the wheel (i.e., illustration 24).

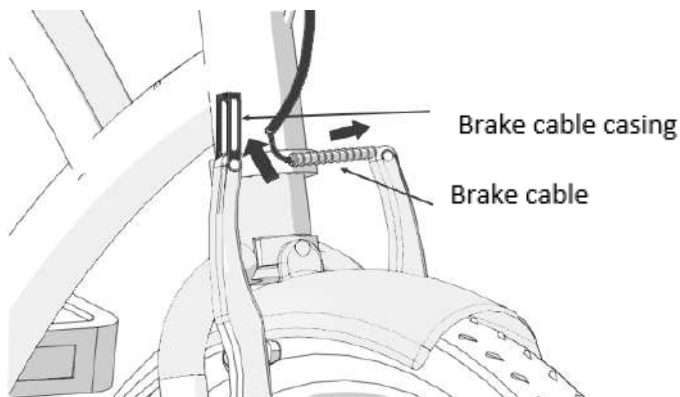


Illustration 24 - Disconnecting your bike's front brake

- If your wheel has a disc brake, make sure to put the shim back between the pads to avoid blocking the brake.



If in doubt, or for any other brake systems, contact your AddBike+ dealer or a professional.

Identify your wheel lock system (quick coupler, screw-nut ...).

- In most cases, bikes have a quick release system. To remove the system:
 - o Open the quick release lever (i.e., illustration 25).
 - o Loosen the adjustment nut manually.
 - o Release the wheel



Closed quick release



Open quick release

Illustration 25 - Quick release system

- If your wheel has a nut, loosen it with a suitable key (size 15 in most cases) in order to disassemble the wheel.



If your wheel has a drum brake or a dynamo hub, we advise you to contact an AddBike+ dealer or a bicycle professional to dismantle them.

Step 2: Fixing axle on the fixing plate

Before putting the AddBike+ on your bike, be sure to put the quick release axle properly on the fixing plate, while checking the labels that are on the AddBike+, check the chart below:


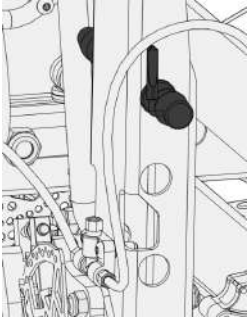

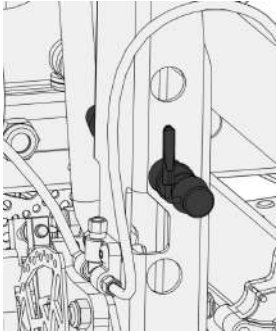

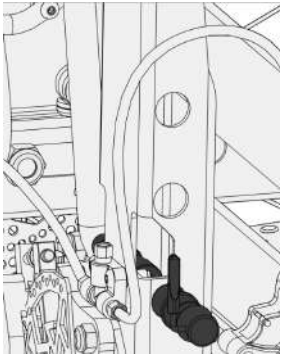
Your bike's wheel size (label)	Fixing axle position
 26" ↑↓ 29"	
 20" ↑↓ 24"	
 16" ↑↓ 20"	

Illustration 26 - How to position the fixing axle

For 20", we recommend using the lower position instead of the middle one. Once the AddBike+ is completely installed on your bike, if a part of the bike interferes with a part of the AddBike+, change the position of the axle by using the middle position.

It is possible you might need to change the position of the adapters, turning them over according to the width of your bike's fork:

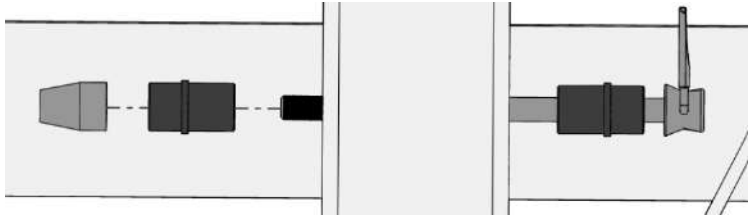
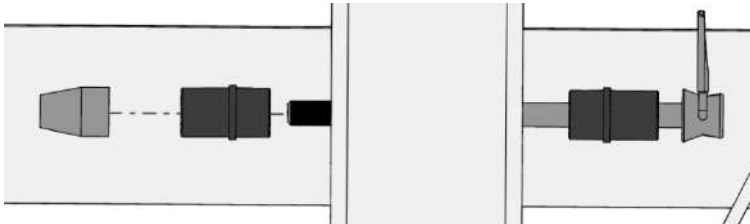
Your bike's wheel width	adapters position
100 mm	 <p>The shortest side is pointing outwards</p>
110 mm	 <p>The longest side is pointing outwards</p>

Illustration 27 – Positioning the adapters

- For the following cases: a bike with a 16" or 20" front wheel, bike with a 12- or 15-mm front wheel axle diameter or with a thru fixing axle, please follow these instructions:
 - o Use your bike's front wheel axle instead of the one provided by AddBike. For 16", 18" and 20" wheels a particular axle is available as an option. Ask your AddBike+ dealer.
 - o Ask your AddBike+ dealer in order to get the corresponding adapters.
 - o Fix your fixing axle with the right adapters placed in the right position, according to the fork width.

If you have to move the axle to adapt the AddBike+ to a different wheel size or a different fork width, or if you have to change the fixing axle, then follow these steps:

- Unscrew the adjustment nut from the AddBike+ fixing axle;
- Change the hole on the back plate, the axle and all the elements used for the correct positioning of the forks and/or flip the adapters;
- Screw the axle by placing the fixing elements in the established order shown in the photo below (i.e. illustration 28), making sure to leave some space to insert your bike's fork legs (i.e. illustration 29).

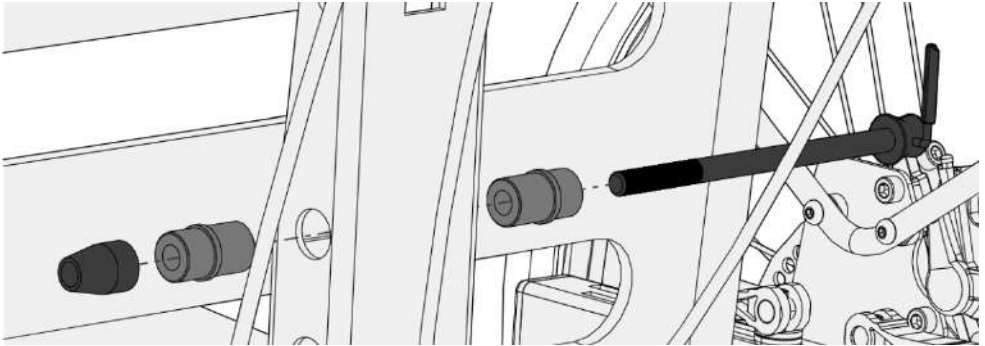


Illustration 28 - Quick fixing elements

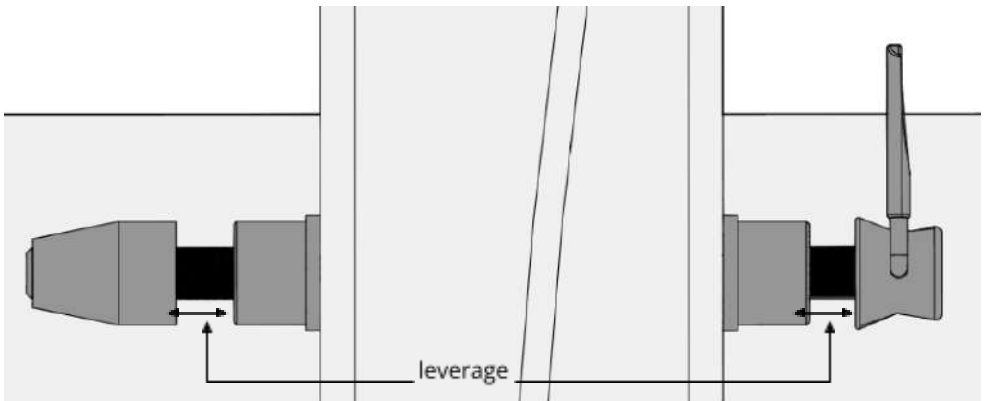


Illustration 29 - Space for the fork legs

Step 3 : The clamp

- Loosen the nut with an open-jaw key (size 17) to free the screw fixing the clamp
- Place the clamp system (included in the box) in the highest possible position depending on your bike's wheel size, using as reference both the chart shown below and the labels on the AddBike+.
- Then screw the whole set as shown in illustration 30.
- Then tighten the clamp nut against the fixing plate as shown in figure 31.

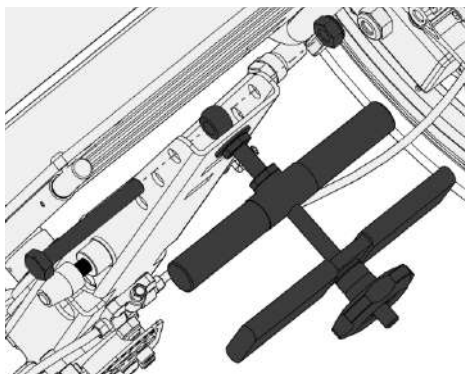


Illustration 30 - the clamp position

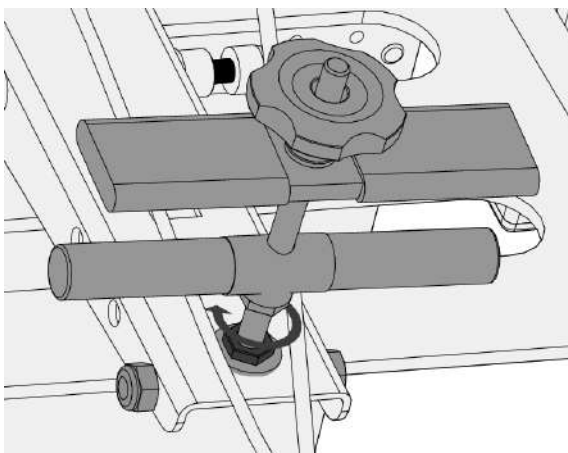


Illustration 31 - Tightening the clamp nut axle against the fixing plate



Make sure to tighten the clamp nut against the fixing plate as shown in illustration 31 so that there is no movement between these two parts.

Your bike's wheel size (label)	The clamp fixing axle position
<div>■</div> <div>26"</div> <div>↕</div> <div>29"</div>	
<div>■</div> <div>20"</div> <div>↕</div> <div>26"</div>	
<div>■</div> <div>16"</div> <div>↕</div> <div>20"</div>	

Illustration 32 - Chart showing the clamp position

Step 4: Fitting the AddBike+ on the host bike

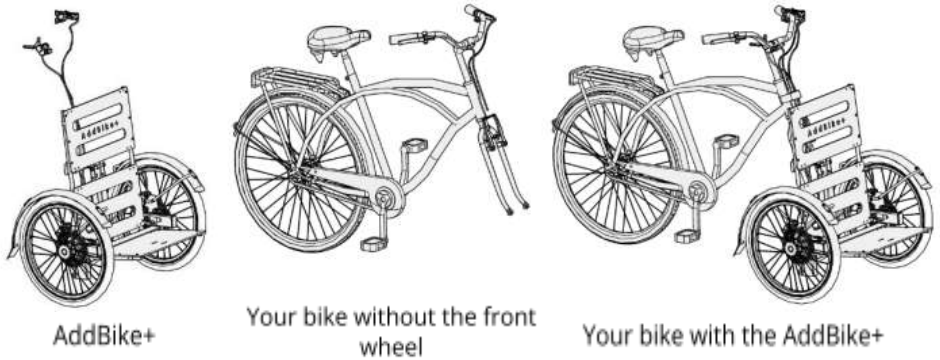


Illustration 33 - The AddBike+ on your bike



It is not necessary to lift the whole bike when fitting or removing the AddBike+. Only the front part of the bike is lifted or lowered during the different stages.



While lifting the bike, be careful not to get your fingers trapped between the fixing plates and the fork, or between the stud plaque and the axle. (i.e., illustration 37).

Now that the fixing axle is in the right position, you can fit the AddBike on your bike:

- Lock the tilting wheels system following the instructions in chapter 9.E.
- Place the AddBike in front of your bike, the seat's front edge touching the floor (*i.e., illustration 34*).

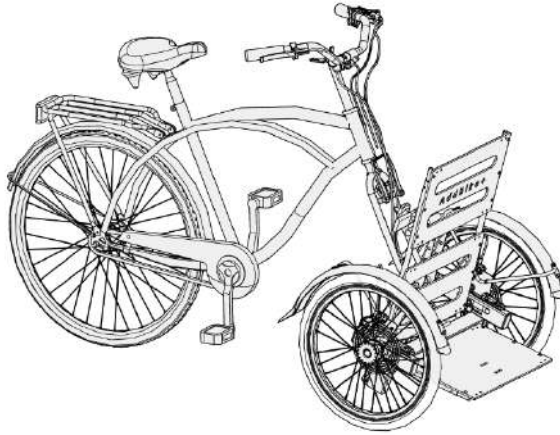


Illustration 34 - Your bike and the AddBike+ before fitting

- Unscrew the adjustment nut on the AddBike+ fixing axle and leave a space of about 1 cm / 0.04" on each side of the fixing plate (i.e., illustration 29).
- Lift your bike's fork and place the fork's legs on the AddBike+ fixing axle on both sides of the adapters positioned on the plate (i.e., Illustration 36).

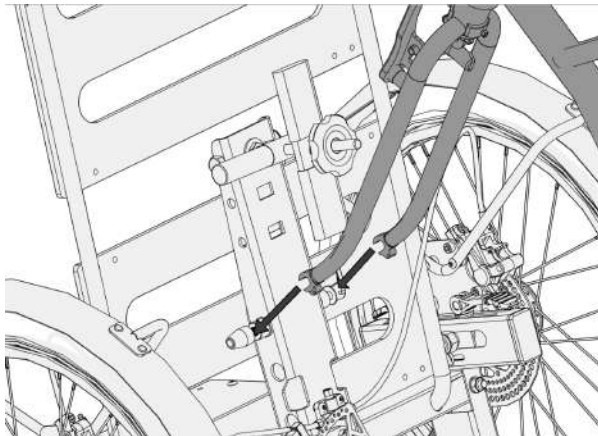


Illustration 35 - Fitting the fork

- Keep your bike upright and tighten the adjustment nut on the fixing axle of the AddBike+;



Do not tighten the AddBike+'s fixing axle yet, so that it can tilt backwards.

- Place the AddBike+ rear fixing clamp vertically (i.e. Illustration 36);

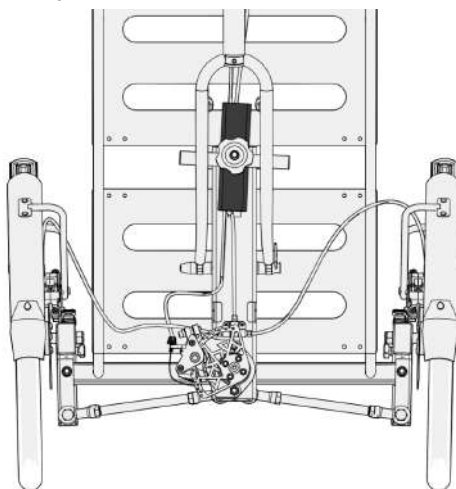
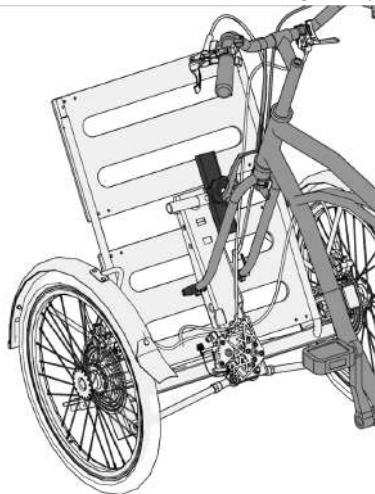


Illustration 36 - Fork and clamp fitting

- Once the axle tightening and clamp positioning steps have been completed, lean the AddBike+ backwards until the clamp (horizontally) touches your bike's fork (i.e., illustration 37).

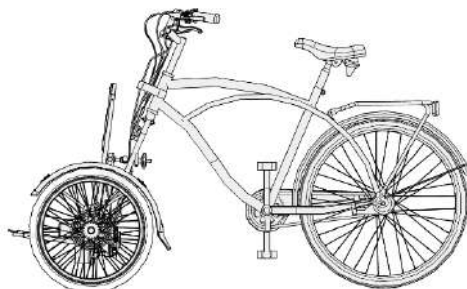
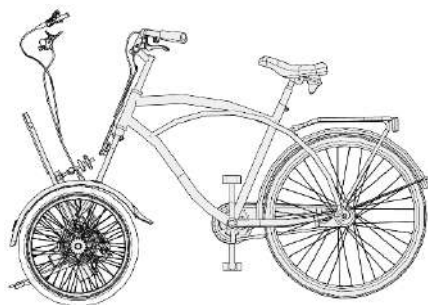


Illustration 37 - How to lean the Addbike+

- If during the previous step any parts of your bike interfere with the positioning of the fixing plate, or if the fixing plate is not facing the fork legs, then place the fixing plate one notch lower by looking at the label (i.e., Illustration 32). For example, if you are on the 29" – 26" label, and the fixing clamp does not fit correctly you must lower down to the "26" – 20" label;



You should never use the following positioning:

- **Original bike more than 24" in on the 16" – 20" label**

- Once the AddBike+ is in the right position (i.e., Illustration 38), make sure the fixing plate is vertically oriented. The fixing plate must not lean either forward or backward in order to ensure the best riding conditions.
- If that is not the case, you should adjust the whole clamp set by moving the adjustment nut (i.e., Illustration 38) available on the clamp screw). By bringing the nut towards the fixing plate, the AddBike+ will tilt slightly backward. Conversely, by moving the nut out from the fixing plate the AddBike+ will tilt slightly forward (i.e., Illustration 39).
- However, you are free to adjust this inclination according to the ones you are looking for. In this case, we recommend that you test the different possible backward inclinations and find the one that suits you best.

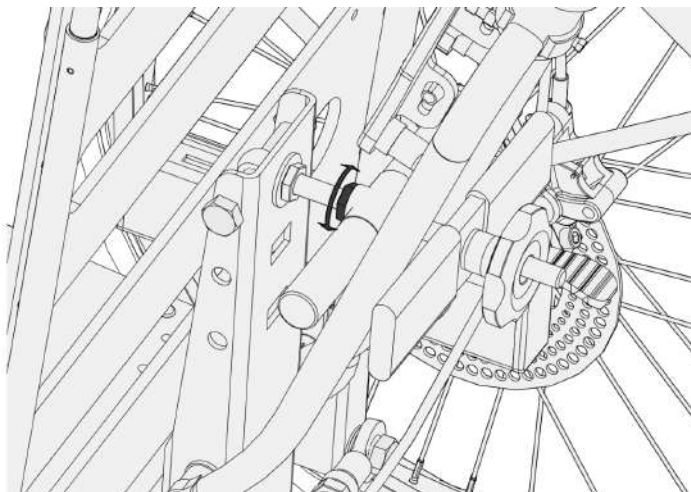


Illustration 38 - Clamp adjustment nut

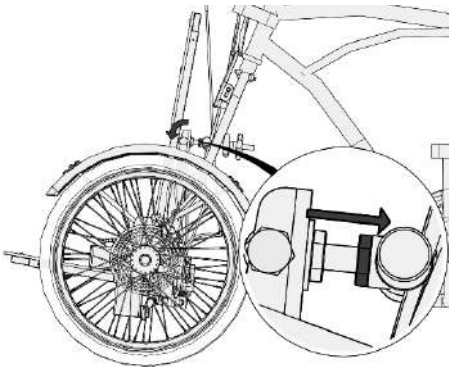
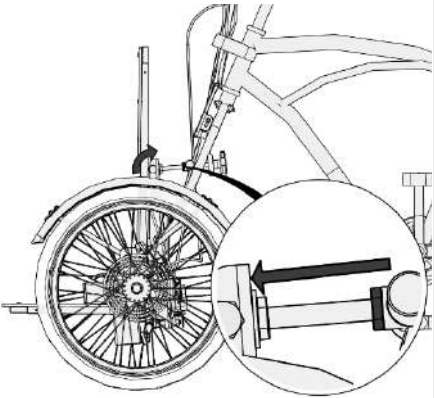
If the plate is leaning backward	If the plate is leaning forward
Unscrew the nut and place it vertically	Screw the nut and place it vertically
	

Illustration 39 - Adjustment if the back-plaque is leaning

- Locate the touching point between the clamp and your bike's fork.
- Put the AddBike+ back on the ground so that you can stick the protection sticker on your bike's fork.
- We recommend using the protection stickers to prevent any permanent marks created by the fixing plates rubbing against your bike's fork. (i.e., Illustration 40);

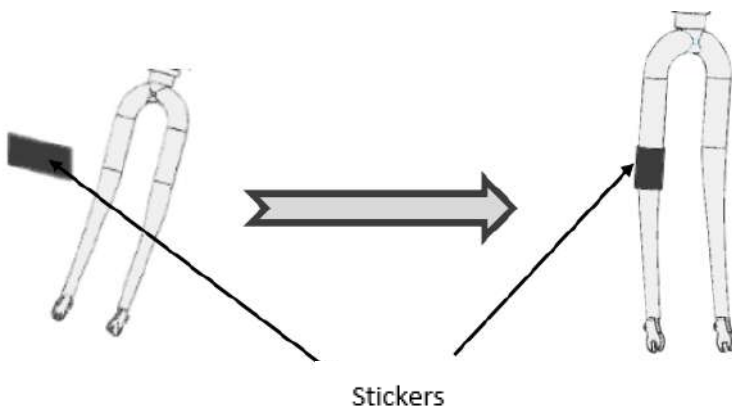


Illustration 40 - Mise en place de l'autocollant

- Put the AddBike+ brake and the tilting wheel lock cables through the space between the AddBike+ clamp and the bike's fork legs, and then put them in front of the bicycle (i.e. Illustration 41);
- Put the rear clamp of the AddBike+ in a vertical position. (i.e., illustration 36).
- Tilt the AddBike+ backwards until the front clamp (in horizontal position) meets your bike's fork. (i.e., illustration 38).
- Put the rear clamp in a horizontal position so that your bike's fork is clamped between the two horizontally positioned clamps. (i.e., illustration 41).
- Tighten the release knob (i.e., illustration 30).
- Turn the adjusting nut by hand- the fixing system must fit securely, and the knob must be tightened properly (i.e., illustration 41).

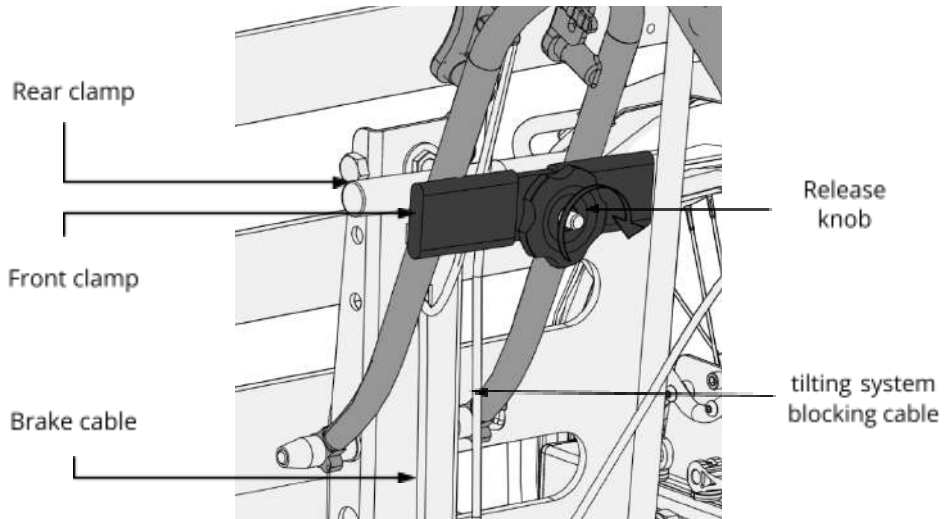


Illustration 41 - Fitting the clamp system



Make sure the AddBike+ brake and tilting system blocking cables go through the two clamps.

- During this step, if you see that some of your bike's elements prevent the clamp system positioning and its adjustment (if one of the two clamps cannot touch the fork legs, or the fixing plate is not in a horizontal position) you should change the clamp system's height (see part 6.B. Step 3).
- Tighten the AddBike+ fixing axle adjustment nut and close the quick release lever on the AddBike+ fixing axle of the AddBike+ (i.e., illustrations 25 et 28). If the lever is hard to close, open it and unscrew the nut slightly. If your bike has 16", 18" or 20" wheels, the fixing axle available in our option kits will be fastened with two nuts, one on each side of the axle.

Step 5: Place the AddBike+ brake lever



You do not have to remove your bike's front brake handle

- Loosen your bike's front brake lever with a suitable tool (an Allen key size 5 in most cases).
- Shift your bike's front brake lever a few centimeters towards the center of the handlebar (i.e., Illustration 42).
- Turn your bike's front brake lever downwards so that it is not accessible while riding, and fix it in this new position (i.e., Illustration 42);

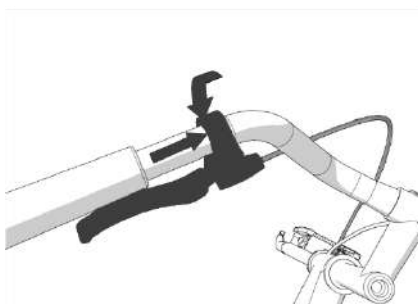


Illustration 42 - Your bike's brake lever shifted downwards

- Using a size 4 Allen key, release the AddBike+ brake lever screws (i.e. Illustration 43);

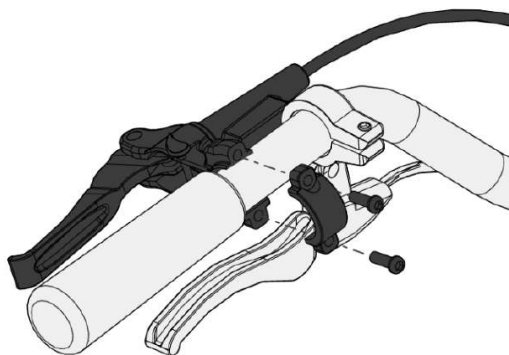


Illustration 43 - AddBike+ brake lever on your bike's handlebar

- Screw the moving fixing element on the AddBike+ brake handle without tightening it to its maximum. You may use the quick release knobs (i.e., Illustration 3).
- Adjust the AddBike+ brake handle position so you can use it while riding (use the rear brake lever to the right of the handlebar as an example).
- Finish tightening the screws so that the brake lever stays in the chosen position.



Make sure you have pulled your bike's brake handle far away enough so that you do not press on the wrong brake when using the AddBike+.



It is not necessary to remove the front brake handle but, if you wish, it is also possible to completely remove your bike's front brake. But remember to remove the brake calipers too. This is a delicate step and we advise you to consult a professional.



Remember your bike's front brake lever's original position to put it back in the same position afterwards. You will be able to install the AddBike+ brake lever in the same way.

Step 6: Fitting the AddBike+ tilting wheels handle

- **The AddBike+ tilting wheel handle is to be placed on the handlebar.**
- Loosen the clamping ring screw in order to place the handle on your bike.
- Put the rubber piece (included in the bag) around the handle clamping ring, on its inner part (i.e., Illustration 44).
- To install the lock handle, you should move the clamping ring on the tilting wheel handle. The material can change shape.

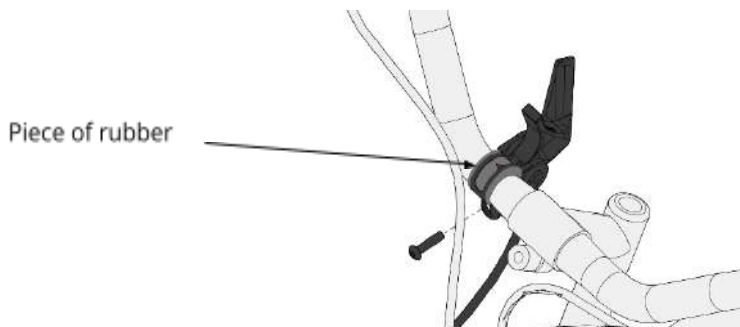


Illustration 44 – Fitting the AddBike+ tilting wheels handle

- Screw the fixing hose clamp on the handle without tightening it to its maximum (i.e., Illustration 47), you can use the quick release knob (i.e., illustration 4).
- Adjust the orientation of the AddBike+ tilting wheel lock system so you can use it while riding
- Finish tightening the moving fixing element so that the handle stays in place.



Never ride with the tilting wheel system locked. While in motion, the lever on the lock handle must be in the green or orange. Check chapter 9. E.



Activate the lever on the tilting wheels lock handle only in parking mode, never while in motion. Check chapter 9. E.

Step 7: Securing the brake cables

- Put the different brake cables together on the steering pivot of your bike and keep them secured using the AddBike+'s cable clamp. (i.e., illustration 45).

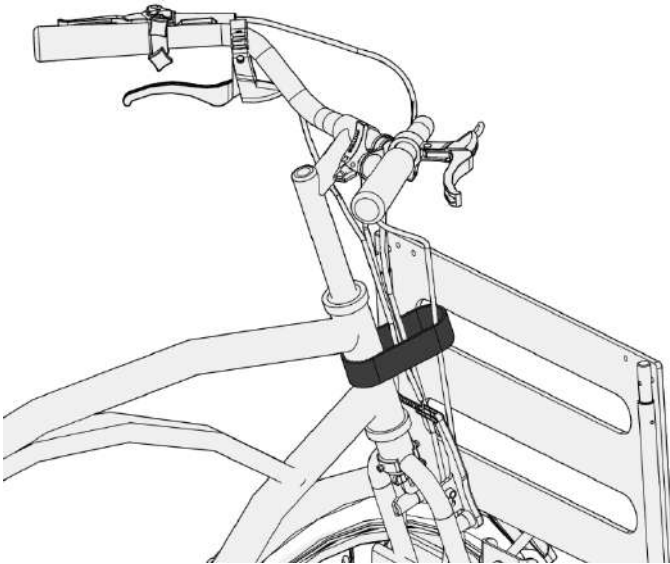


Illustration 45 - Brake cables held together with the cable clamp



Use the AddBike+ cable clamp to hold the brake cables and prevent them from getting caught in the backrest. If the cables get stuck in the AddBike+, you could lose control of the bike.

7. Safety check before use

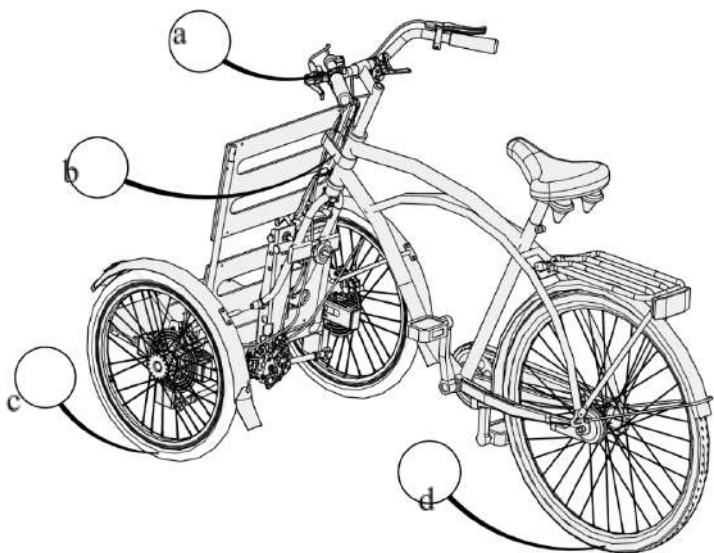


Illustration 46 - Overall view of a bike with an AddBike+

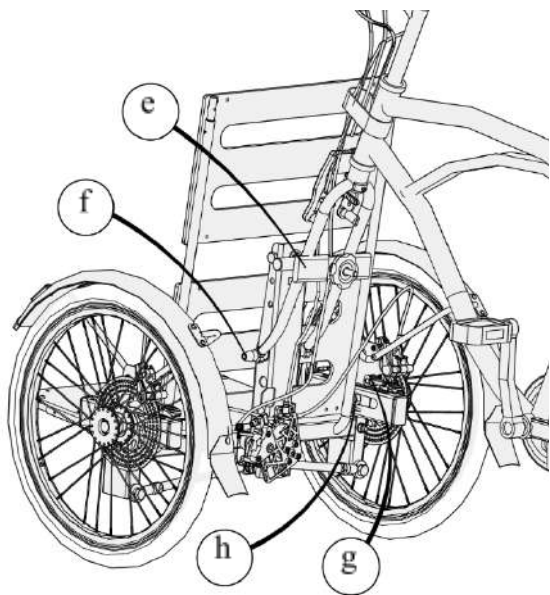


Illustration 47 - Back view of the AddBike+

- Check the AddBike+ brakes efficiency by squeezing the AddBike+ brake handle.
- Check that the brake handle is tight enough (the handle should not move around the handlebar). Check the brake balance (i.e., illustration 46-a).



If braking is not balanced on both wheels, check chapter 8. B.

- Check that the bike's brake cables and the AddBike+ brake handles are securely held by the cable clamp (i.e., illustration 46-b).
- Check the AddBike+ wheel's tire pressure. It must be between 3.5 and 4 bars (i.e., illustration 46-c).
- Check your bike's rear wheel's pressure (refer to your bike's instruction manual) (i.e., illustration 46-d)
- Check that the AddBike+ clamp is tightened correctly on the fork: adjusting the quick release knob by hand (i.e., illustration 47-e).
- Check that the front brake's cable and the tilting wheels' handle go through the clamp system (i.e., illustration 47-e).
- Check that the rear and front clamps touch the bike's fork (i.e., illustration 47-e).
- Check that the fork's fixing axle's quick release is correctly tightened. (Cf. Illustration 47-f).
- Check that the quick release levers are tightened correctly while maintaining the wheels' position, (one tightened lever should be enough to keep the wheels in place) and that these levers are parallel to their support (Cf. Illustration 20 et 47-g).
- Check that both wheels of the AddBike+ are in the same position while loaded or unloaded (Cf. Illustration 47-h).
- Check the rest of the bike and make your usual adjustments for maximum comfort.
- Check if the brakes are balanced by riding it unloaded. To do this, try it out in a safe area with no risks.
- Also check if the rear brake system on the original bike works properly.



Make sure that no element (caliper, brake plate, straps, brake cable, tilting lock cable...) prevents the proper functioning of the AddBike+ by flipping the handlebar as far as possible from right to left, turning it from right to left then try riding the AddBike+.

8. Maintain your AddBike+ in good condition

Your AddBike+ requires minimum maintenance and regular maintenance.

A. Regular maintenance

On the AddBike+, you must regularly and accordingly to the use frequency, check it (tip: once a month):

You must check that the following elements are correctly tightened:

- o The tilting wheels system back screws. The system is symmetrical so remember to check each side (Cf. Illustration 48).
- o The seat and backrest corner screws (Cf. Illustration 48).
- o The bolt holding the clamp (Cf. Illustration 48).
- o The screws holding the brake cables distributor (Cf. Illustration 50).
- o The screws holding the brake calipers on their base (Cf. Illustration 50).
- o Disc and tilting wheels blocking system adjustment. (Cf. Illustration 50).
- o The screws on the mudguards (Cf. Illustration 50).
- The condition of both the brake plates and the tilting wheels blocking system.
- The condition of both the brake cables and the tilting wheels blocking system.
- The suspension and tilting wheels blocking system function properly.
- The mudguard condition, you must check that the bases are not crooked (Cf. Illustration 56).
- Check that there are reflectors on both wheels of the AddBike+.

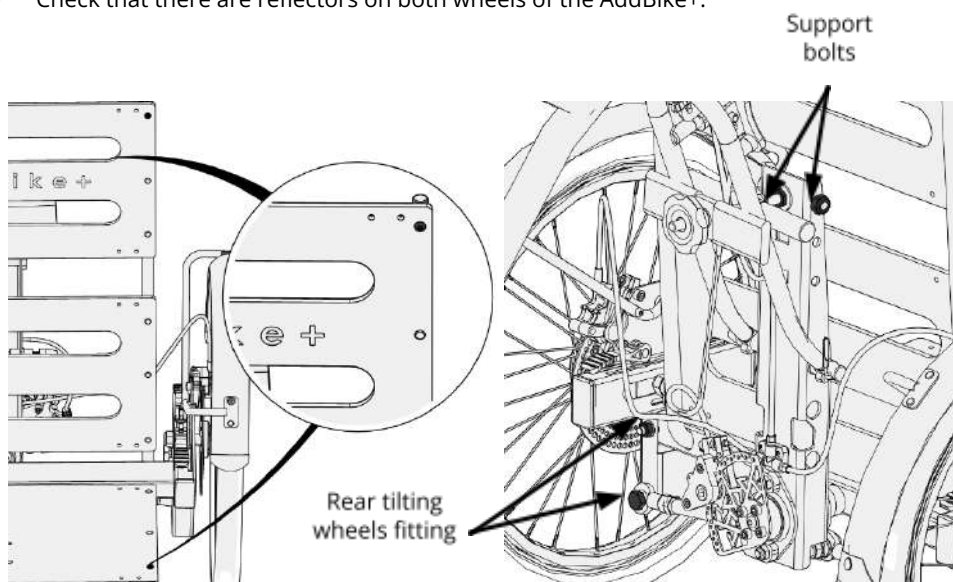


Illustration 48 - Seat screws and important check points

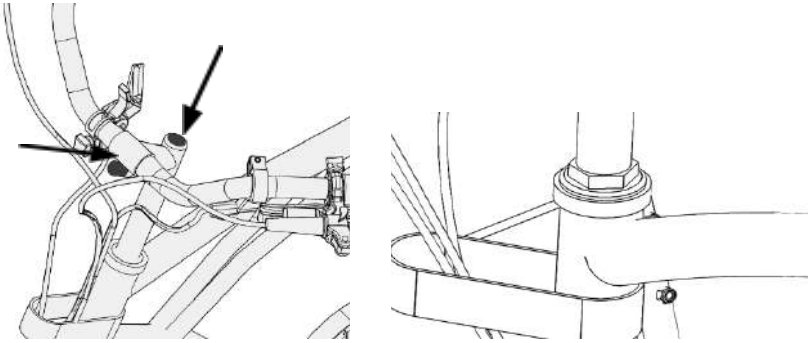


Illustration 49 - Expander screws and steering column nut

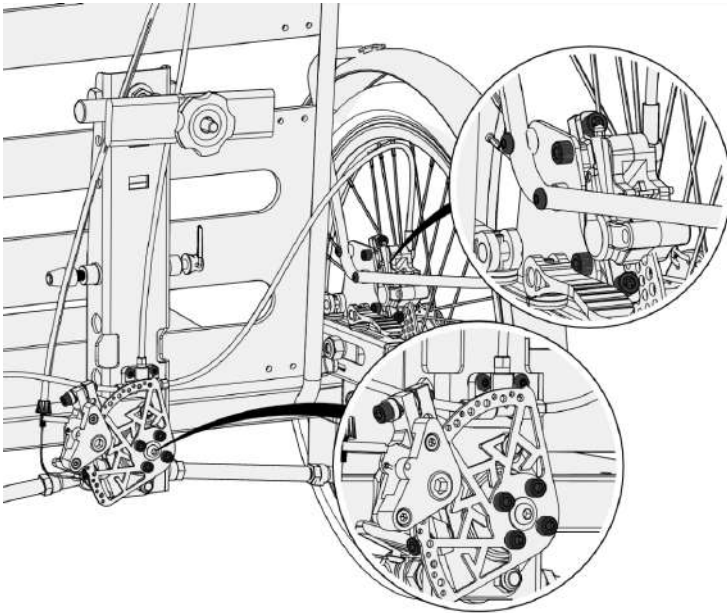


Illustration 50 - Tilting wheels and caliper base checkpoints

On the original bike, regularly check the components that interact with the AddBike+ (fork) and the steering components (steering column, handlebars) to see if there are any cracks, as well as the tightness of components such as the steering column and the stem. (Cf. illustration 49).

If in any doubt, refer to your bike's service manual and contact your usual bike dealer.

B. Brakes

If you notice that the brakes are not balanced, here is the procedure to follow in order to solve the problem:

- Raise the AddBike+ so that it is stable and the wheels do not touch the ground (by putting it on its original box, for example) (Cf. illustration 51) ;

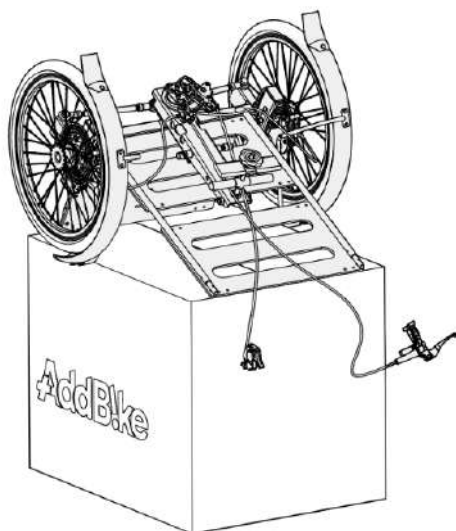


Illustration 51 – AddBike+ on the box

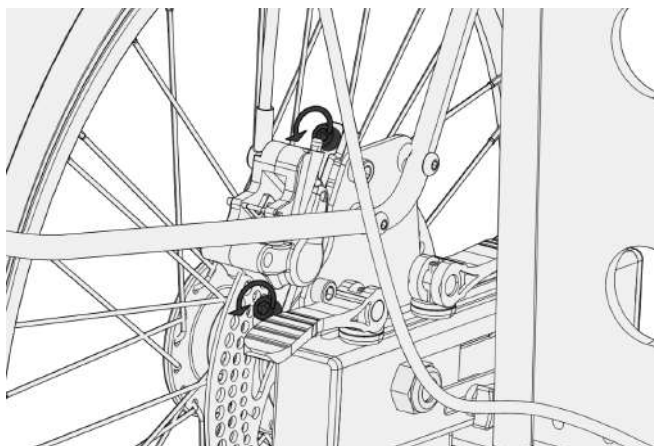


Illustration 52 - The screws that should be loosened to balance the brakes

- Loosen the screws fixing the calipers just a few rounds using a size 5 Allen key: the calipers must be able to move (Cf. Illustration 52).
- Press firmly on the brake lever. This allows you to position the calipers correctly.
- While continuing to press the brake lever down, and using a size 5 Allen wrench, tighten the screws fixing one of the wheel calipers, without changing its position;
- Release the brake.

Do the same thing on the other wheel.

The brake plates must be changed every year. We advise you to contact a bicycle servicing professional to do so.



In addition to this Instruction Manual, the « Tektro Auriga Twin » brake instructions are also available.



The AddBike+ has a hydraulic disc brake system. When calipers, discs and plates are used a lot, they heat up. If you touch it, you may get burnt. Always wait for the brake to cool down before touching it.

9. Using the AddBike+

A. First use



Get used to the product before using it to transport loads or a child.

When using it for the first time, make sure the wheels are in the unloaded position. If this is not the case, check chapter 9.E, which shows how to adjust the wheels' position.

Use the AddBike+ unloaded until you are completely used to it (straight lines, curves). We advise you to first use it in an area with low traffic to get used to how the product works. It may take from a few minutes to several hours to get used to it depending on the person. Take the time you need to get used to it.

The brake discs are very powerful, so try pressing the brake handle gradually and in low traffic areas, without any danger nearby. Take all the time you need to be totally comfortable with the braking intensity.



Every time you want to start, check the brake symmetry. If the brakes aren't balanced on both wheels, check chapter 8.B.



Before starting up, make sure the tilting wheel system is in a free position (the lever must be in the green or orange zone). You should not use it when the tilting wheels system is locked (lever in the red zone). Check chapter 9. E.



If it is raining, be very careful because one of the two discs may be wetter than the other and braking may be stronger on one side, this could cause an accident. Check chapter 3, « Drive accordingly ».

B. Using the AddBike+ for load transportation

Rules for loading the base

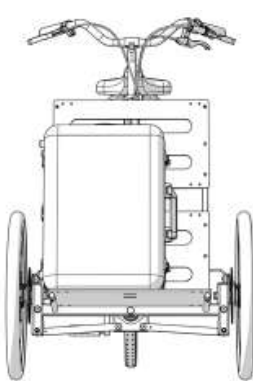
To easily load the AddBike+ (with or without a module), put the parking brake in a locked position and lock the bike as far right as possible using the tilting wheel system.

Always secure the load correctly on the base and be extremely careful not to let the load itself exceed the volume provided for this purpose, that is to say, no higher than the base.

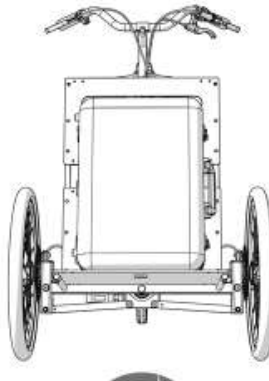
Check that:

- The load is attached correctly (with bungees, tensioners, or other means).
- The load does not exceed the width and height of the Base.
- The carried load does not interfere with the fork movement, wheels, and handlebar.

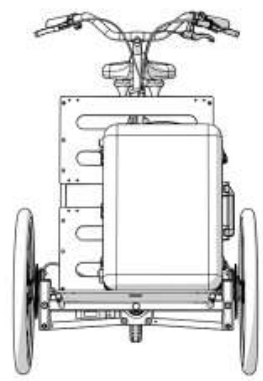
Here are some pictures showing good and bad positionings of a load:



Load too far left



Load in the middle



Load too far right

Illustration - Examples of loads on the AddBike+



The maximum weight is 35kg / 77lbs.



When carrying loads on the AddBike+, check that the load is secured and resting on the backrest of the Base to avoid any tilting that might result in loss of control.

Adjustment of the wheels position and of the tilting wheels shock-absorption

The AddBike+ allows you to adapt your driving to a load transportation : check chapters 9.E et 9.F below.

C. Riding with a loaded AddBike+

It is important that you adapt your driving when carrying loads:

While turning

During turns, always drive at a speed below 8 km/h | 5 miles/hour and take the widest route. Speed is often underestimated (especially with e-bikes). The transported load could tip over due to the centrifugal effect, and this might result in an accident.

Downhill

Always reduce speed when you ride downhill. Brake progressively and always be very careful that your brakes are correctly balanced. In case of high speed, the load may slip and cause an accident.

On uneven surfaces

The AddBike+ is not designed to be used on uneven surfaces because riding on an obstacle or other bumps and holes on the ground with one wheel may cause unexpected movement on the handlebar. Also, using the AddBike+ on this type of surface can lead to premature aging of some parts of your bike. For this reason, you must walk alongside your bike, or ride with caution, if you encounter obstacles.

Sidewalks

To get on a sidewalk or any other obstacle higher than 5 cm | 2 inches, you must always come off your bike:

- o Getting up on a sidewalk:
To use a sidewalk easier, you can lift the rear wheel of your bike first, especially if the AddBike+ is loaded. This will make it easier to pull the front part over the sidewalk, with no need to lift it completely off the ground
- o Getting off a sidewalk: get off very slowly using the brakes and the wheels of the AddBike+ one after the other.

D. Using the braking system



When braking, always use your bike's rear brake and the AddBike+ front brake simultaneously.



When loading or unloading the base, always activate the parking brake.

Parking brakes

The brakes are equipped with a system that allows a complete lockdown when the AddBike+ is stopped. When the parking brake is released (normal position), the button will be on the right. The AddBike+ brakes are then released, and you can use your bike normally (Cf. illustration 54).

To activate the parking brake, you must follow these steps:

- Fully press the brake lever to the bottom (Cf. Illustration 54).
- Move the button to the left without releasing the brake lever (Cf. Illustration 54).
- Release the brake lever.

When the parking brake is engaged, the AddBike+ brakes are locked, and the bike does not move forward.

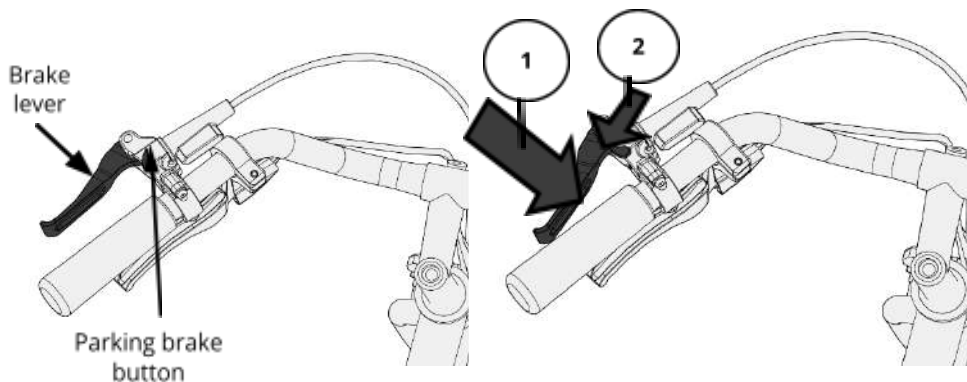


Illustration 54 - Using the parking brake




To remove the parking brake, please perform the same steps as when installing it, this time shifting the button to the right.

E. Using the braking system

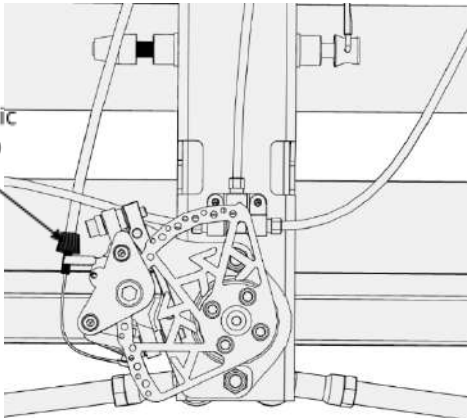
The tilting wheels system has a controlling handle. This handle allows you to adjust the tilting wheels suspension so that the bike tilts more or less easily when turning or maneuvering.

Illustration 55 is a table explaining the different lever positions and their effect on driving.



It is forbidden to ride with the tilting wheels completely locked (handle on the red zone).

Check the brake plates condition on the tilting wheel lock regularly. Over time, the tilting wheels will not have the same grip, therefore it will affect its locking or suspension. You will have to tighten the tilting wheels system cable by slightly turning the small plastic knob (i.e., Illustration 55). Once you have changed the cable's tension, check that the indications on the chart beneath match the tilting wheels stiffness.



Plastic knob




Indications on the lever	Consequences on the tilting wheels system
	Free
	Damped
	Locked

Illustration 55 – Tilting wheels brake adjustment

F. Adjusting the wheels' position

Adjusting the front wheels' position (trail) is important. This will allow you to be as comfortable as possible on your bike, according to the load. You will have to change the position depending on if your AddBike+ is loaded or not. The following indications explain how to adjust the trail on your bike.

- Start by activating the parking brake. i.e., Chapter 9.D.
- Lift the 2 quick release levers on each wheelbase and untighten the locking knob. (i.e., illustration 56).

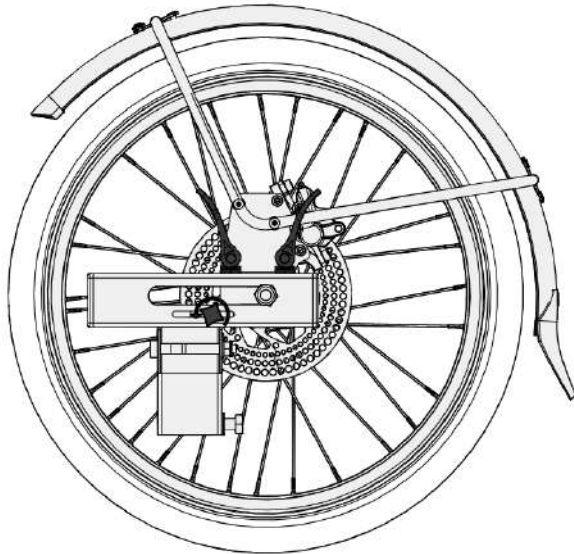


Illustration 56 - Quick release lever and locking knob position

- Move both wheels by sliding them: slightly raise one side of the AddBike+ (make sure it does not topple over) so that the wheel does not touch the ground, then take the wheel by the hub and make it slide. Do the same with the other wheel.
- Here are some indications on how adjust the trail on your bike depending on how you use the AddBike+:
 - o For better maneuverability of your AddBike+ when not transporting a load, move the wheels backwards until they reach the rear limit (i.e., Illustration 57).
 - o For more stability when transporting a load, move the wheels forward until they reach the front limit (i.e., Illustration 58).
 - o Both positions are marked on the AddBike+ with stickers:



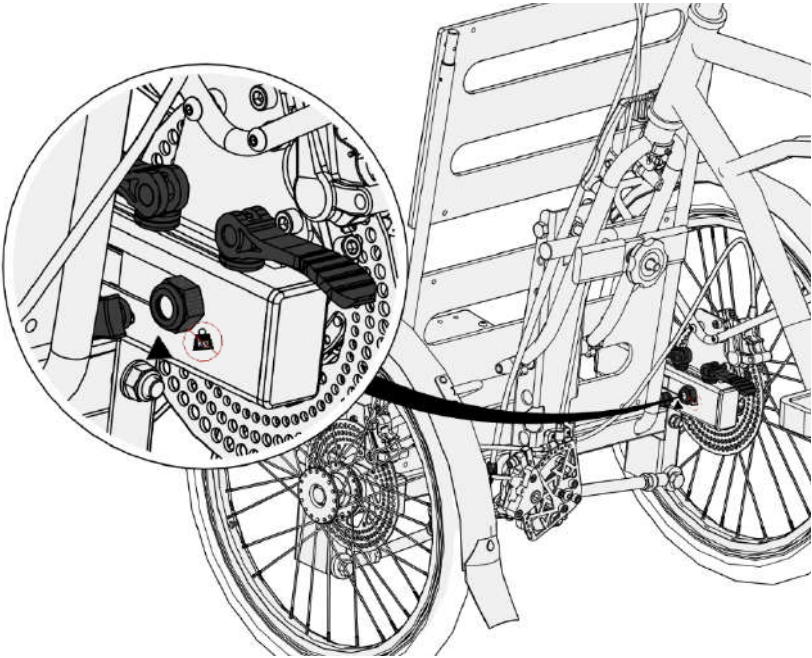
Use	Position and sticker
Without load	 
	

Illustration 57 – Right wheel positioning without load


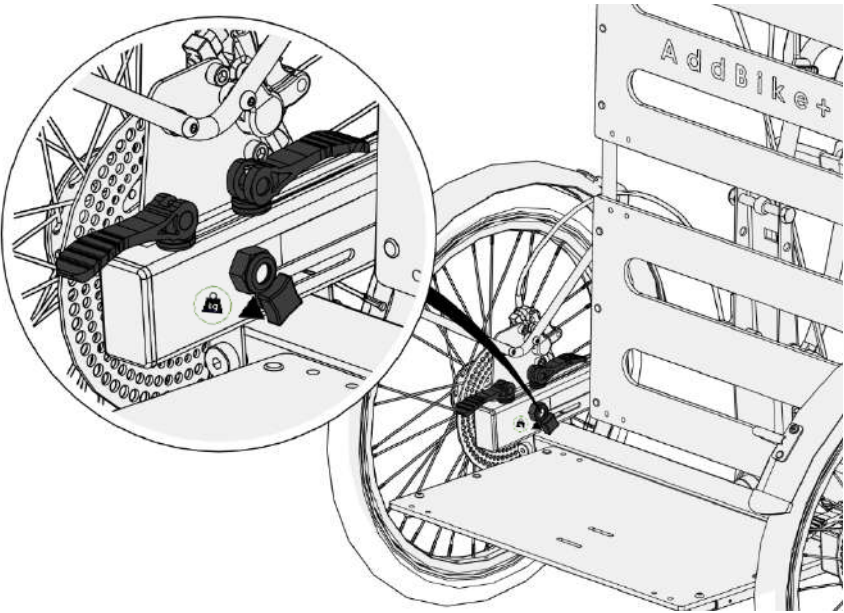
Use	Position and sticker
With load	 A green circle containing a black weight icon with the text 'kg' inside, and a solid black triangle to its right.
	 A technical line drawing of a bicycle's rear wheel and frame. A circular inset provides a magnified view of the rear wheel hub and axle area. In this inset, a small circular sticker with a weight icon and the text 'kg' is shown being applied to the frame. The main drawing shows the rear wheel, the rear fender, and the rear rack. The text 'AddBike+' is visible on the rear rack. A black arrow points from the circular inset to the rear wheel hub area.

Illustration 58 - Right wheel positioning with load



The non-loaded position is unsuitable for carrying a load and makes it difficult to ride the AddBike+.

- Tighten the quick release knobs but pay attention to their position; quick release knobs must be parallel to wheels (i.e., Illustration 20).



Make sure both wheels are adjusted identically (i.e., Illustration 60).

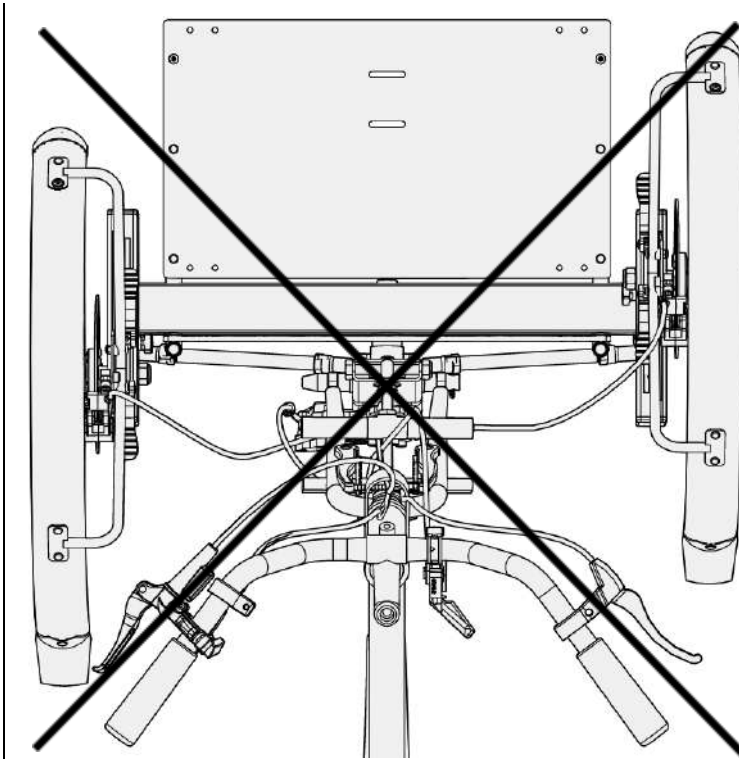


Illustration 59 - Incorrect wheel position

10. Disassembling the AddBike+

A. Removing the AddBike+

Any disassembly operation must be carried out without any load on the AddBike+.

Step 1 : Remove the brake lever

- Unscrew the movable fixing element from the handle by loosening the bolts and fixing nuts (i.e., Illustration 60).
- Remove the AddBike+ brake handle from your handlebar.
- Put your bike brake lever back on by using the appropriate tool (use the rear brake lever placed at the right of the handlebar as an example).

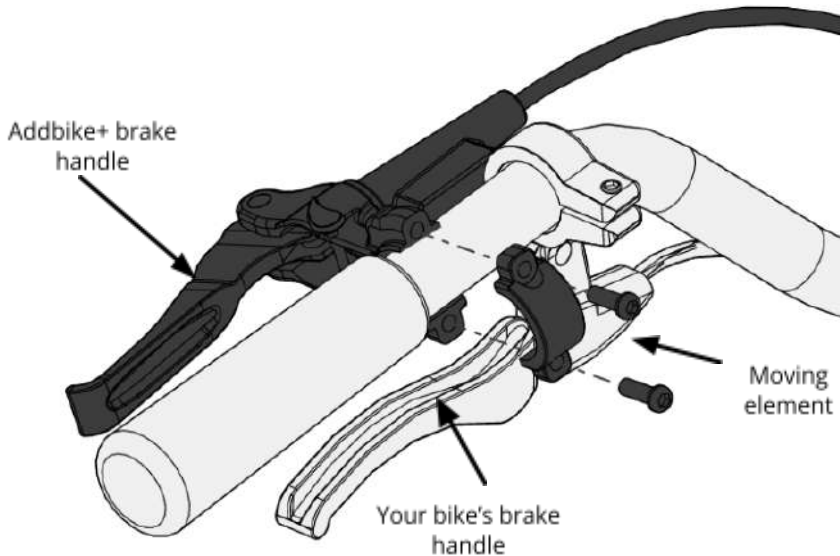


Illustration 60 - Addbike+ brake and screws



If you have completely removed the brakes on your bike, remember to place all its parts back again.

Step 2: Remove the AddBike+ tilting wheels lock handle

- Unscrew the fixing element from the tilting wheels' handle (bolt or nut for fast fixing) (i.e., Illustration 61).

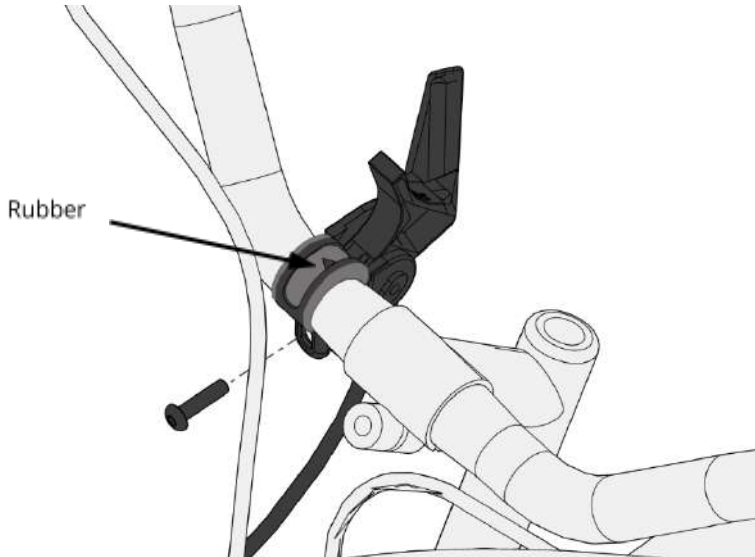


Illustration 61 - The AddBike+'s tilting wheels lock lever and its screws

- Remove the AddBike+ tilting wheel handle from your handlebar.

Step 3 : Uninstalling the AddBike+

- Open the quick release lever on the fixing axle and loosen by hand the AddBike+ adjusting nut.
- Manually loosen the quick release knob from the plaques.
- Vertically turn the Addbike+ internal fixing plaque.
- Tilt the AddBike+ forward until its seat rests on the ground (i.e., Illustration 62).
- Lift the bike to remove it from the AddBike+ on the ground (i.e., Figure 63).

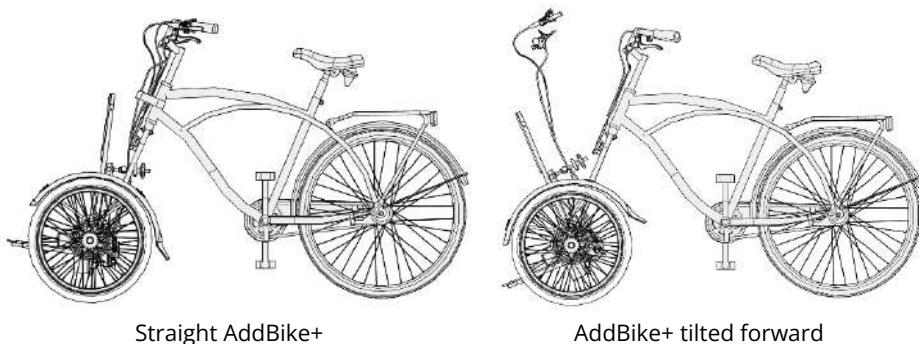


Illustration 62 - Tilting the AddBike+

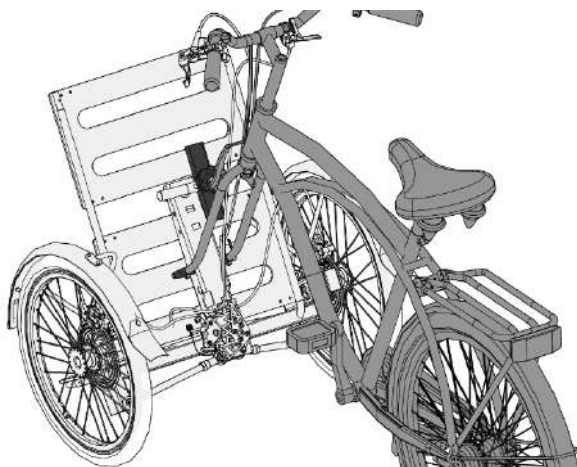


Illustration 63 - Removing the AddBike+

B. Restoring the bike

- Reinstall the front wheel of your bike: if your bike is equipped with disc brakes then do not forget to remove the caliper holder.
- Put all parts removed when the AddBike+ was installed on your bike back in place (mudguard, lights, brake etc.). Refer to your bike's instructions in order to restore the bike properly and according to its specificities.
- Once the reassembly is finished, do a test to ensure the proper functioning of your bike, especially the proper functioning of the brakes. If in doubt, please contact a bicycle service professional

11. Cleaning and storage

Your AddBike+ can be cleaned with a sponge, with a hose or with clean water.

Do not clean your AddBike+ using a high-pressure hose, as that could result in premature deterioration.

Store your AddBike+ in a weather-proof area.

12. Guarantee charter

The guarantee extends to two years after purchase.

The product must be used according to its Instruction Manual and must be regularly maintained. The original parts must not be replaced with unauthorized parts.

Any damage resulting from non-compliant use, abuse, poor maintenance or normal wear and tear is excluded from the Guarantee.

Our products include components and parts (tires, brake pads, plenum) that are subject to natural wear and tear during normal use. These parts are not part of the warranty.

13. Support

If a part of the AddBike+ does not function correctly, please contact AddBike (support@addbike.fr) or your dealer. We will do our best to help you as soon as possible.

On our website www.add-bike.com you will find a list of dealers who are trained for the installation and maintenance of AddBike products.